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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
AGRICULTURAL BRANCH

Vol. 22

No. 48

CANADIAN GRAIN STATISTICS

Week ending

JULY 3, 1942

[Records for Western Inspection Division supplied by Board of Grain Commissioners for Canada]

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Minister of Trade and Commerce.

OTTAWA

1942

Price \$2 a year

1942
MONTREAL
1942

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS - CANADA
AGRICULTURAL BRANCH

Issued July 9, 1942

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WHEAT STOCKS IN STORE

Canadian wheat in store for the week ending July 3, 1942 decreased 1,461,072 bushels as compared with the previous week and decreased 61,026,787 bushels when compared with the corresponding week in 1941. The amount in store was reported as 405,554,307 bushels compared with 407,015,379 bushels for the previous week and 463,581,094 bushels for the week of July 4, 1941. The stocks of 405,554,307 bushels include 787,549 bushels of Durum wheat.

CANADIAN WHEAT IN CANADA

The wheat stocks in elevators and in transit in Canada for the week ending July 3, 1942 were 384,745,957 bushels compared with 386,575,624 bushels for the previous week and 429,535,332 bushels for the week ending July 4, 1941.

Stocks of wheat in Canadian elevators were located as follows: Western Country Elevators 129,245,000; Interior Private and Mill 6,176,000; Interior Public and Semi-Public 16,315,901; Vancouver-New Westminster 17,663,996; Victoria 1,020,221; Prince Rupert 1,205,881; Churchill 2,317,396; Fort William and Port Arthur 125,898,154; Eastern Elevators Lake Ports 40,598,258 and Eastern Elevators Seaboard Ports 19,827,734 bushels.

Decreases were shown at Western Country Elevators of 4,015,000; Interior Public and Semi-Public 36,694; Vancouver-New Westminster 21,852; Victoria 331 and Eastern Elevators Lake Ports 209,380 bushels, while increases were shown at Interior Private and Mill of 77,000; Fort William and Port Arthur 1,344,569 and Eastern Elevators Seaboard Ports 2,195,802 bushels.

For the week ending July 3, 1942 the amount of wheat in transit on the lakes was 1,273,012 bushels, and in transit by rail 22,904,404 compared with 4,857,135 in transit on the lakes and 23,173,531 in transit by rail for the corresponding week in 1941.

Stocks of Ontario Grain: According to the Eastern Elevators, the following quantities of Ontario wheat, oats, barley, buckwheat and corn are in the undermentioned ports: (in bushels)

	<u>Wheat</u>	<u>Oats</u>	<u>Barley</u>	<u>Buckwheat</u>	<u>Corn</u>
Goderich Elev. & Transit	-	-	-	-	27,892
Goderich W.C. Flour Mills	-	-	-	-	3,000
Port Colborne, Maple Leaf	1,333	-	-	13,453	56,670
Toronto Elevators	-	-	-	37	4,449
Prescott	-	-	-	-	49,293
Montreal, N.H.B.	-	316	1,262	-	17,974
TOTAL	1,333	316	1,262	13,490	159,278

CANADIAN WHEAT IN THE UNITED STATES

Canadian wheat in the United States amounted to 20,808,350 bushels, an increase of 368,595 bushels over the previous week when 20,439,755 bushels were reported. This Canadian wheat was located at the following ports: Buffalo 5,975,000; Erie 2,173,000; Erie Canal Afloat 346,000; Portland 947,868; Boston 2,375,586; New York 1,963,000; New York Afloat 837,000; Philadelphia 544,342; Baltimore 1,537,200; Albany 185,000 and In Transit U.S.A. 4,124,554 bushels.

Increases were noted at Erie of 40,000; Portland 196,282; Boston 160,577; New York 327,000; New York Afloat 415,000 and Albany 102,000 bushels while decreases were noted at Buffalo of 458,000; Erie Canal Afloat 358,000 and In Transit U.S.A. 56,264 bushels.

For the same week a year ago the Canadian wheat in the United States amounted to 37,015,762 bushels distributed as follows: Duluth 13,734,101; Erie 2,233,000; Erie Canal Afloat 98,000; Buffalo 5,482,000; Albany 2,770,000; New York 3,116,000; New York Afloat 670,000; Boston 2,349,120; Portland 1,156,084; Philadelphia 472,279; Baltimore 665,495 and In Transit U.S.A. 4,269,683 bushels.

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PRIMARY MARKETINGS

Farmers' deliveries to Country Elevators, Interior Private and Mill Elevators and Loadings over Platforms

Wheat receipts in the Prairie Provinces for the week ending July 3, 1942 amounted to 2,142,928 bushels, an increase of 120,325 bushels over the revised figures of the previous week when 2,022,603 bushels were marketed. During the corresponding week a year ago the receipts were 5,022,939 bushels. By provinces the receipts for the week ending July 3, 1942 were as follows, figures within brackets being those for 1941: Manitoba 580,260 (850,457); Saskatchewan 998,877 (2,376,740); Alberta 563,791 (1,795,742) bushels.

Marketings in the three Prairie Provinces for the forty-eight weeks from August 1, 1941 to July 3, 1942 as compared with the same period in 1941 were as follows, figures within brackets being those for 1941: Manitoba 39,118,979 (54,875,523); Saskatchewan 101,002,093 (229,937,018); Alberta 60,715,360 (149,025,581) bushels. For the forty-eight weeks ending July 3, 1942 and the same period in 1941 200,836,432 and 433,838,122 bushels were received from the farms.

Platform Loadings shown by Prairie Provinces for the week ending July 3, 1942 were as follows:

	<u>WHEAT</u> <u>(except Durum)</u>	<u>DURUM</u> <u>WHEAT</u>	<u>OATS</u>	<u>BARLEY</u>	<u>RYE</u>
Manitoba	30,072	3,541	3,980	10,956	-
Saskatchewan ..	12,948	-	-	1,709	-
Alberta	9,263	-	2,327	3,779	1,706
TOTAL	52,283	3,541	6,307	16,444	1,706

Stocks in Store in the Western Division compared with the same week last year were as follows: (in bushels)

	<u>Week ending</u> <u>July 3, 1942</u>	<u>Week ending</u> <u>July 4, 1941</u>	<u>+ Increase</u> <u>- Decrease</u>
Wheat (except Durum)	299,462,526	346,363,646	+ 46,901,120
Durum wheat	680,023	1,264,390	- 584,367
Oats	2,326,731	2,632,953	- 306,222
Barley	3,639,071	2,906,469	+ 732,602
Rye	1,580,283	986,382	+ 593,901
Flaxseed	698,601	442,013	+ 256,588

Stocks in Store at the Head of the Lakes compared with the same week last year were as follows:

	<u>Week ending</u> <u>July 3, 1942</u>	<u>Week ending</u> <u>July 4, 1941</u>	<u>+ Increase</u> <u>- Decrease</u>
Wheat (except Durum)	125,738,134	77,911,739	+ 47,826,395
Durum wheat	160,020	414,390	- 254,370
Oats	349,917	371,867	- 21,950
Barley	1,191,462	499,293	+ 692,169
Rye	1,052,283	419,149	+ 633,134
Flaxseed	359,601	150,009	+ 209,592

The receipts (including transfers) at the Head of the Lakes compared with the same week last year were as follows:

	<u>Week ending</u> <u>July 3, 1942</u>	<u>Week ending</u> <u>July 4, 1941</u>	<u>+ Increase</u> <u>- Decrease</u>
Wheat (except Durum)	4,614,298	5,866,108	- 1,251,810
Durum wheat	29,622	82,013	- 52,391
Oats	179,605	145,107	+ 34,498
Barley	60,199	112,444	- 52,245
Rye	27,177	56,831	- 29,654
Flaxseed	66,013	18,400	+ 47,613

Preliminary figures showing receipts and shipments at the Head of the Lakes for the period August 1, 1941 to date compared with the same period last year:

FORT WILLIAM AND PORT ARTHUR

	<u>RECEIPTS</u>	<u>SHIPMENTS</u>
Wheat (except Durum)	239,587,906	195,546,403
Durum wheat	1,941,150	2,434,846
Oats	16,086,008	18,872,691
Barley	17,153,402	17,007,674
Rye	4,801,225	4,381,090
Flaxseed	3,614,378	3,471,200
TOTAL	283,184,069	241,713,904
Same period last year	228,998,087	233,202,659
Increase	54,185,982	8,511,245

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STOCKS OF GRAIN IN ELEVATORS DURING THE WEEK ENDING JULY 3, 1942

	WHEAT	DURUM	OATS	BARLEY	RYE	FLAX- SEED
	(except Durum)	WHEAT				
(bushels)						
Western Country Elevators	128750000	495000	1280000	1065000	411000	258000
Interior Private & Mill Elevs.	6151000	25000	641000	1288000	117000	81000
Interior Pub. & Semi-Pub. Terms.	16315898	3	14384	53867	-	-
Vancouver-New Westminster	17663996	-	41430	40742	-	-
Victoria	1020221	-	-	-	-	-
Prince Rupert	1205881	-	-	-	-	-
Churchill	2617396	-	-	-	-	-
Fort William & Port Arthur	125738134	160020	349917	1191462	1052283	359601
Eastern Elevators - Lake Ports	40569577	28681	300976	2032990	128171	154603
Eastern Elevs.-St. Lawrence Ports	15734880	48845	191680	176204	71322	373
Eastern Elevs. - Seaboard Ports	4044009	-	-	-	-	-
U.S. Lake Ports	8494000	-	-	-	288000	-
U.S. Atlantic Seaboard Ports	8189796	-	-	-	1047000	-
In Transit Lake	1243012	30000	49348	-	-	-
In Transit Rail	22904404	-	540454	247928	53182	231298
In Transit U.S.A.	4124554	-	-	-	-	-
TOTAL	404766758	787549	3409189	6096193	3167958	1084875
Previous week	406225885	789494	3420707	6443194	3150663	1076093
Same week previous year	464157918	2423176	4923380	4218869	5992431	653793

QUANTITY OF SCREENINGS RECEIVED, SHIPPED AND IN STORE AT THE UNDERMENTIONED ELEVATORS
WEEK ENDING JULY 3, 1942

	Amount in Store June 26, 1942		Amount Received		Amount Shipped		Amount in Store July 3, 1942	
	Tons	Lb.	Tons	Lb.	Tons	Lb.	Tons	Lb.
Owen Sound	52	-	339	530	60	-	331	530
Goderich Elev. & Transit	35	1,510	325	220	90	-	270	1,730
Humberstone, R.H.F. Mills	375	1,630	-	-	-	-	375	1,630
Prescott	19	1,900	-	-	-	-	19	1,900
Montreal, N.H.B.	2	1,750	-	-	-	-	2	1,750
Montreal, Dom. Elev. Ltd.	544	490	59	1,960	48	-	556	450
Three Rivers	16	630	-	-	-	-	16	630
TOTAL	1,046	1,910	724	710	198	-	1,573	620

COMPLETE CARGOES CLEARED FROM THE HEAD OF THE LAKES FOR THE PERIOD
FROM JUNE 22, TO JUNE 30, 1942 INCLUSIVE

	CANADIAN LOWER LAKE PORTS	ST. LAWRENCE PORTS	BUFFALO U. S. A.	OTHER U.S.A. PORTS
	(bushels)			
Wheat (except Durum)	3,279,765	61,381	202,500	255,809
Durum wheat	-	-	-	-
Oats	123,234	-	-	-
Barley	383,607	-	-	-
Rye	33,290	-	-	-
Flaxseed	6,785	-	-	-
TOTAL	3,826,681	61,381	202,500	255,809
Same period 1941	6,338,722	323,618	714,363	220,871

COMPLETE CARGOES CLEARED FROM THE HEAD OF THE LAKES FOR THE PERIOD
FROM THE OPENING OF NAVIGATION TO JUNE 30, 1942

Wheat (except Durum)	65,452,105	937,926	16,641,803	2,213,731
Durum wheat	292,988	-	393,913	-
Oats	1,020,804	-	-	-
Barley	1,407,167	-	-	107,414
Rye	233,161	-	176,747	223,974
Flaxseed	244,011	-	-	-
TOTAL	68,650,236	937,926	17,212,463	2,545,119
Same period 1941	75,117,264	5,749,432	19,608,652	4,944,455

CARS INSPECTED IN THE WESTERN INSPECTION DIVISION BY PROVINCES, MARCH 1942

	WHEAT	OATS	BARLEY	RYE	FLAX- SEED	MIXED GRAIN	CORN	SCREEN- INGS
Manitoba	1,849	113	171	20	11	-	65	5
Saskatchewan	6,113	256	179	94	65	6	-	-
Alberta	3,149	272	82	15	17	5	-	-
British Columbia	72	2	2	-	1	-	-	-
TOTAL	11,183	643	434	129	94	11	65	5

CARS INSPECTED IN THE WESTERN INSPECTION DIVISION BY PROVINCES, APRIL 1942

Manitoba	2,397	95	98	10	4	-	30	1
Saskatchewan	6,203	259	204	59	28	11	-	5
Alberta	4,509	231	80	7	10	2	-	-
British Columbia	68	1	-	-	1	-	-	-
TOTAL	13,177	586	382	76	43	13	30	6

CARS INSPECTED IN THE WESTERN INSPECTION DIVISION BY PROVINCES, MAY 1942

Manitoba	4,035	85	82	10	3	-	9	2
Saskatchewan	10,176	166	118	38	23	8	-	2
Alberta	6,233	103	35	8	4	1	-	-
British Columbia	79	-	-	-	-	-	-	-
TOTAL	20,523	354	235	56	30	9	9	4

CARS INSPECTED IN THE WESTERN INSPECTION DIVISION BY PROVINCES TEN MONTHS
ENDING MAY 1942

Manitoba	24,121	3,433	7,391	890	541	30	741	44
Saskatchewan	78,787	4,307	4,134	1,834	1,898	86	-	32
Alberta	41,798	4,131	1,330	179	373	48	2	16
British Columbia	682	64	27	-	8	1	-	-
TOTAL	145,388	11,935	12,882	2,903	2,820	165	743	92

STATE OF NEW YORK

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CANADIAN GRAIN IN STORE - JULY 3, 1942

	WHEAT (except Durum)	DURUM WHEAT	OATS	BARLEY	RYE	FLAX- SEED
(bushels)						
WESTERN COUNTRY ELEVATORS						
Manitoba	16775000	325000	395000	465000	106000	35000
Saskatchewan	66215000	170000	595000	405000	251000	180000
Alberta	45760000	-	290000	195000	54000	43000
TOTAL COUNTRY ELEVATORS	128750000	495000	1280000	1065000	411000	258000
INTERIOR PRIVATE AND MILL	6151000	25000	641000	1288000	117000	81000
INTERIOR PUBLIC & SEMI-PUBLIC	16315898	3	14384	53867	-	-
VANCOUVER-NEW WESTMINSTER	17663996	-	41430	40742	-	-
VICTORIA	1020221	-	-	-	-	-
PRINCE RUPERT	1205881	-	-	-	-	-
CHURCHILL	2617396	-	-	-	-	-
FORT WILLIAM & PORT ARTHUR	125738134	160020	349917	1191462	1052283	359601
IN STORE WESTERN DIVISION	299462526	680023	2326731	3639071	1580283	698601
EASTERN ELEVATORS						
Collingwood	747949	-	-	3805	-	-
Depot Harbour	1291185	-	-	-	-	-
Midland	3089885	433	-	352391	-	-
Midland, Simcoe	3658406	-	-	474282	-	-
Midland, Tiffin	3668728	-	-	-	-	-
Midland, Aberdeen	724368	-	-	-	-	-
Owen Sound	3019000	9641	24207	221426	5930	-
Port McNicoll	5818753	-	-	424008	-	-
Goderich Elevator & Transit	1797106	386	97508	40998	55273	128115
Goderich W.C.F.M.	226288	-	4513	5000	-	-
Sarnia	4474964	-	1800	386194	-	-
Port Colborne, N.H.B.	1860557	-	2400	2451	-	-
Port Colborne, M.L.	878082	10613	44077	13337	45637	-
Humberstone, R.H. Flour Mills	1238704	5991	-	-	-	-
Toronto	3244469	1617	126471	104954	21331	26488
Peterborough, J.R.	203500	-	-	-	-	-
Kingston Elevator Co. Ltd.	1884629	-	-	4144	-	-
Prescott	2743004	-	-	-	-	-
TOTAL EAST. LAKE PORTS	40569577	28681	300976	2032990	128171	154603
Montreal, N.H.B.	6598708	14100	8179	16712	59105	373
Montreal, Dom. Elev. Ltd.	22853	33053	166451	144889	12217	-
Sorel	2824924	-	-	-	-	-
Three Rivers	4773206	228	-	-	-	-
Quebec, N.H.B.	1515189	1464	17050	14603	-	-
West Saint John	2315740	-	-	-	-	-
Saint John, C.N.R.	147102	-	-	-	-	-
Halifax	1581167	-	-	-	-	-
TOTAL EAST. SBD. PORTS	19778889	48845	191680	176204	71322	373
Buffalo	5975000	-	-	-	288000	-
Erie	2173000	-	-	-	-	-
Erie Canal Afloat	346000	-	-	-	-	-
TOTAL U.S. LAKE PORTS	8494000	-	-	-	288000	-
Portland	947868	-	-	-	-	-
Boston	2375386	-	-	-	-	-
New York	1963000	-	-	-	-	-
New York Afloat	837000	-	-	-	-	-
Philadelphia	344342	-	-	-	-	-
Baltimore	1537200	-	-	-	-	-
Albany	185000	-	-	-	1047000	-
TOTAL U.S. SEABOARD PORTS	8189796	-	-	-	1047000	-
IN TRANSIT LAKE	1243012	30000	49348	-	-	-
IN TRANSIT RAIL	22904404	-	540454	247928	53182	231298
IN TRANSIT U.S.A.	4124554	-	-	-	-	-
TOTAL IN STORE CANADA	383958408	787549	3409189	6096193	1832958	1084875
TOTAL IN STORE U.S.A.	20808350	-	-	-	1335000	-
TOTAL IN STORE CANADA) AND U.S.A.)	404766758	787549	3409189	6096193	3167958	1084875
						405554307

Year	Month	Day	Time	Location	Event	Remarks
1900	Jan	1	10:00	St. Paul	Service	...
1900	Jan	2	10:00	St. Paul	Service	...
1900	Jan	3	10:00	St. Paul	Service	...
1900	Jan	4	10:00	St. Paul	Service	...
1900	Jan	5	10:00	St. Paul	Service	...
1900	Jan	6	10:00	St. Paul	Service	...
1900	Jan	7	10:00	St. Paul	Service	...
1900	Jan	8	10:00	St. Paul	Service	...
1900	Jan	9	10:00	St. Paul	Service	...
1900	Jan	10	10:00	St. Paul	Service	...
1900	Jan	11	10:00	St. Paul	Service	...
1900	Jan	12	10:00	St. Paul	Service	...
1900	Jan	13	10:00	St. Paul	Service	...
1900	Jan	14	10:00	St. Paul	Service	...
1900	Jan	15	10:00	St. Paul	Service	...
1900	Jan	16	10:00	St. Paul	Service	...
1900	Jan	17	10:00	St. Paul	Service	...
1900	Jan	18	10:00	St. Paul	Service	...
1900	Jan	19	10:00	St. Paul	Service	...
1900	Jan	20	10:00	St. Paul	Service	...
1900	Jan	21	10:00	St. Paul	Service	...
1900	Jan	22	10:00	St. Paul	Service	...
1900	Jan	23	10:00	St. Paul	Service	...
1900	Jan	24	10:00	St. Paul	Service	...
1900	Jan	25	10:00	St. Paul	Service	...
1900	Jan	26	10:00	St. Paul	Service	...
1900	Jan	27	10:00	St. Paul	Service	...
1900	Jan	28	10:00	St. Paul	Service	...
1900	Jan	29	10:00	St. Paul	Service	...
1900	Jan	30	10:00	St. Paul	Service	...
1900	Jan	31	10:00	St. Paul	Service	...

Grades of Canadian Grain in Store at Public, Semi-Public and Private (Head of the Lakes), Interior, Public and Semi-Public, Pacific Ports and Eastern Elevators for the week ending July 3, 1942.

	Ft. William & Pt. Arthur Semi-Public and Private	Interior Public & Semi-Public Terminals	Pacific Port Elevators	Eastern Elevators Lake Ports	Eastern Elevators Seaboard Ports	Total
(bushels)						
<u>WHEAT</u>						
No. 1 Hard	1,229,511	60,746	38,715	466	2,437	1,331,875
No. 1 Northern	67,212,088	12,465,921	10,584,914	30,374,021	16,255,601	136,892,545
No. 2 Northern	50,855,260	1,145,791	5,927,275	7,021,602	3,291,249	68,241,177
No. 3 Northern	2,241,550	21,591	768,069	1,925,269	142,958	5,099,437
No. 4 Northern	294,991	-	17,826	431,201	37	744,055
No. 5 Wheat	3,353	-	1,917	-	-	5,270
Feed	14,479	-	-	-	-	14,479
Tough	-	-	-	-	-	-
Other	3,635,375	16,258	366,683	815,685	82,980	4,916,981
No. 1 C.W. Garnet	99,443	77	588,028	-	402	687,950
No. 2 C.W. Garnet	103,900	1,528	381,437	-	3,225	490,090
No. 3 C.W. Garnet	48,184	-	9,353	-	-	57,537
No. 1 C.W. Durum	9,699	-	-	596	1,230	11,525
No. 2 C.W. Durum	48,990	-	-	21,039	39,600	109,629
No. 3 C.W. Durum	31,411	-	-	6,377	7,982	45,770
No. 4 C.W. Durum	10,564	-	-	-	-	10,564
Other Durum	59,356	-	-	669	33	60,058
Ontario	-	-	-	1,333	-	1,333
TOTAL	125,898,154	13,711,912	18,684,217	40,598,258	19,827,734	218,720,275
<u>OATS</u>						
No. 2 C.W.	2,042	-	2,391	8,956	5,799	19,188
Ex. 3 C.W.	6,523	-	-	-	-	6,523
No. 3 C.W.	50,365	-	568	86,661	18	137,612
Ex. No. 1 Feed	8,531	-	2,186	9,191	-	19,908
No. 1 Feed	93,746	-	8,037	47,432	-	149,215
No. 2 Feed	17,172	-	2,838	11,456	3,147	34,613
No. 3 Feed	5,802	-	-	32,439	1,326	39,567
Ontario	-	-	-	316	-	316
Other	165,736	-	25,410	270,976	14,939	477,061
TOTAL	349,917	-	41,430	467,427	25,229	884,003
<u>BARLEY</u>						
2 C.W. 6 Row	139,882	-	-	476,926	14,560	631,368
3 C.W. 6 Row	237,922	-	-	1,007,735	-	1,245,657
1 Feed	606,430	-	970	508,363	2,838	1,118,601
2 Feed	59,732	-	-	27,190	-	86,922
3 Feed	8,442	-	12,481	-	-	20,923
Ontario	-	-	-	1,263	-	1,263
Other	139,054	44,870	27,291	156,402	13,917	381,534
TOTAL	1,191,462	44,870	40,742	2,177,879	31,315	3,486,268
<u>RYE</u>						
No. 2 C.W.	802,939	-	-	45,637	59,105	907,681
No. 3 C.W.	63,914	-	-	46,711	-	110,625
No. 4 C.W.	1,236	-	-	-	-	1,236
Ergoty	4,754	-	-	-	-	4,754
Other	179,440	-	-	48,040	-	227,480
TOTAL	1,052,283	-	-	140,388	59,105	1,251,776
<u>FLAXSEED</u>						
No. 1 C.W.	267,998	-	-	122,731	373	391,102
No. 2 C.W.	28,959	-	-	31,872	-	60,831
No. 3 C.W.	11,722	-	-	-	-	11,722
No. 4 C.W.	1,149	-	-	-	-	1,149
Other	49,773	-	-	-	-	49,773
TOTAL	359,601	-	-	154,603	373	514,577
GRAND TOTAL	128,851,417	13,756,782	18,766,389	45,538,555	19,945,756	224,856,899

CANADIAN GRAIN IN STORE - COMPARATIVE STATEMENT, 1940 - 1942

	W H E A T	OTHER GRAIN
	(bushels)	
<u>July 3, 1942</u>		
Country Elevators - Manitoba	17,100,000	1,001,000
Saskatchewan	66,385,000	1,431,000
Alberta	45,760,000	582,000
TOTAL	129,245,000	3,014,000
Interior Private and Mill	6,176,000	2,127,000
Interior Public and Semi-Public Terminals	16,315,901	68,251
Vancouver-New Westminster	17,663,996	82,172
Victoria	1,020,221	-
Prince Rupert	1,205,881	-
Churchill	2,617,396	-
Fort William and Port Arthur	125,898,154	2,953,283
Eastern Elevators - Lake Ports	40,598,258	2,616,740
St. Lawrence and Seaboard Ports	19,827,734	439,579
U.S. Lake Ports	8,494,000	288,000
U.S. Atlantic Seaboard Ports	8,189,796	1,047,000
In Transit Lake	1,273,012	49,348
In Transit Rail	22,904,404	1,072,862
In Transit U.S.A.	4,124,554	-
TOTAL	405,554,307	13,758,215
<u>July 4, 1941</u>		
Country Elevators - Manitoba	27,465,000	950,000
Saskatchewan	120,615,000	1,541,000
Alberta	71,665,000	986,000
TOTAL	219,745,000	3,477,000
Interior Private and Mill	8,075,000	2,011,000
Interior Public and Semi-Public Terminals	18,355,899	6,965
Vancouver-New Westminster	18,303,492	32,534
Victoria	997,145	-
Prince Rupert	1,207,975	-
Churchill	2,617,396	-
Fort William and Port Arthur	78,326,129	1,440,318
Eastern Elevators - Lake Ports	31,528,505	992,980
St. Lawrence and Seaboard Ports	22,378,125	342,322
U.S. Lake Ports	21,547,101	4,075,000
U.S. Atlantic Seaboard Ports	11,198,978	1,231,000
In Transit Lake	4,857,135	502,683
In Transit Rail	23,173,531	1,676,671
In Transit U.S.A.	4,269,683	-
TOTAL	466,581,094	15,788,473
<u>July 5, 1940</u>		
Country Elevators - Manitoba	5,580,000	954,000
Saskatchewan	33,170,000	2,653,000
Alberta	23,730,000	1,152,000
TOTAL	62,480,000	4,759,000
Interior Private and Mill	6,246,000	2,481,000
Interior Public and Semi-Public Terminals	12,112,000	29,909
Vancouver-New Westminster	15,176,256	168,740
Victoria	612,474	-
Prince Rupert	1,136,049	-
Churchill	2,494,610	-
Fort William and Port Arthur	68,926,180	2,643,474
Eastern Elevators - Lake Ports	39,615,062	2,022,689
St. Lawrence and Seaboard Ports	21,714,807	764,318
U.S. Lake Ports	10,556,877	2,785,000
U.S. Atlantic Seaboard Ports	11,970,761	1,462,274
In Transit Lake	2,099,243	41,688
In Transit Rail	23,210,725	1,239,157
In Transit U.S.A.	2,761,959	-
TOTAL	281,113,693	18,397,249

RECEIPTS AND SHIPMENTS OF GRAIN BY CLASSES OF ELEVATORS IN THE
WEEK ENDING JULY 3, 1942

	WHEAT (except Durum)	DURUM WHEAT	OATS	BARLEY	RYE	FLAX- SEED
(bushels)						
<u>R E C E I P T S</u>						
Country Elevators	2,020,112	40,274	252,468	145,357	15,707	17,538
Int. Private & Mill Elevs.	26,718	-	9,259	2,019	128	833
Int. Pub. & Semi-Pub. Terms	29,375	-	-	930	-	-
Fort William and Port Arthur	4,614,298	29,622	179,605	60,199	27,177	66,013
Eastern Elevators - Vessel	3,223,829	-	123,122	306,537	33,259	6,782
Rail	2,498,237	-	24,378	10,302	-	-
<u>S H I P M E N T S</u>						
Country Elevators	6,006,870	57,404	351,517	204,899	33,369	112,839
Int. Private & Mill Elevs.	560,605	474	139,639	74,372	54	4,677
Int. Pub. & Semi-Pub. Terms.	66,330	-	-	2,955	-	615
Fort William & Port Arthur						
Vessel	3,140,297	31,591	54,181	286,896	-	-
Rail	133,865	5,515	133,920	77,552	4,757	18,733
Eastern Elevators - Rail	2,795,701	-	52,395	140,862	4,300	100
To Mill	245,605	-	4,921	2,873	694	-
Trucked	5,333	-	500	-	-	-

STOCKS IN STORE, RECEIPTS AND SHIPMENTS AT THE CANADIAN GOVERNMENT INTERIOR
TERMINAL ELEVATORS, JULY 3, 1942

	WHEAT (except Durum)	OATS	BARLEY	RYE	FLAX- SEED
(bushels)					
<u>STOCKS IN STORE</u>					
Calgary	1,638,014	-	25,567	-	-
Edmonton	1,031,052	-	19,303	-	-
Lethbridge	978,131	-	-	-	-
Moose Jaw	5,095,026	-	-	-	-
Saskatoon	4,969,689	-	-	-	-
TOTAL	13,711,912	-	44,870	-	-
<u>RECEIPTS</u>					
Calgary	12,343	-	-	-	-
Lethbridge	17,032	-	-	-	-
TOTAL	29,375	-	-	-	-
<u>SHIPMENTS</u>					
Calgary	7,638	-	1,875	-	-
Edmonton	57,092	-	150	-	-
Lethbridge	-	-	-	-	615
TOTAL	64,730	-	2,025	-	615

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 551

LECTURE 1

1.1. Introduction

1.2. Kinematics

1.3. Dynamics

1.4. Energy

1.5. Angular momentum

1.6. Oscillations

1.7. Waves

1.8. Relativity

1.9. Quantum mechanics

1.10. Statistical mechanics

1.11. Thermodynamics

1.12. Electromagnetism

1.13. Optics

1.14. Modern physics

1.15. Miscellaneous

1.16. Appendix

1.17. Bibliography

1.18. Index

1.19. Glossary

1.20. Acknowledgments

STOCKS OF UNITED STATES GRAIN IN CANADA, JULY 3, 1942

	WHEAT	OATS	RYE	CORN	SOYA BEANS
	bushels				
Collingwood	-	-	-	844,348Y	-
Midland, Tiffin	-	-	-	631,876Y	-
Midland, Aberdeen	-	-	-	1,733Y	-
Owen Sound	-	-	-	84,989Y	-
Port McNicoll	-	-	-	387,693Y	-
Goderich Elev. & Transit	89,450	-	-	195,453Y	-
Sarnia	-	-	-	673,367Y	-
Sarnia	-	-	-	206,199W	-
Port Colborne, N.H.B.	-	-	-	333,957Y	-
Humberstone, R.H.F. Mills	85,772	-	-	572,024Y	-
Toronto	-	-	-	188,178Y	34,148
Prescott	-	-	-	311,627Y	-
Montreal, N.H.B.	-	-	-	276,577Y	-
Montreal, Dom. Elev. Ltd.	-	-	-	16,805Y	-
Three Rivers	-	-	23,548	305,255Y	-
Halifax	-	-	-	1,494Y	-
TOTAL	175,222	-	23,548	5,031,575	34,148
Same period last year	228,289	78,234	23,578	1,013,988	-

Y-Yellow W-White

RECEIPTS AND SHIPMENTS OF UNITED STATES GRAIN IN CANADA, JULY 3, 1942

	R E C E I P T S		G E O R G I A N B A Y P O R T S	S H I P M E N T S	
	Water	Rail		Water	Rail
Corn	1,004,704	-	To Canadian mills	-	1,500
			" Can. Dom. points	-	12,812
			" St. Lawrence ports	-	708,071
			" U.S.A. Dom. points	-	175,561
<u>LOWER LAKE PORTS</u>					
Corn	-	-	To Can. Dom. points	-	21,072
<u>ST. LAWRENCE PORTS</u>					
Corn	-	387,599	To Canadian mills	-	500

STOCKS OF FOREIGN GRAIN IN CANADA, JULY 3, 1942

	YELLOW ARGENTINE CORN	WHITE ARGENTINE CORN	YELLOW S. AFRICAN CORN	WHITE S. AFRICAN CORN
	bushels			
Port Colborne, M.L.	211	-	-	-
Quebec, N.H.B.	6	-	-	-
TOTAL	217	-	-	-
Same period last year	83,719	6,768	5,437	356

RECEIPTS AND SHIPMENTS OF FOREIGN GRAIN IN CANADA, JULY 3, 1942

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STOCKS, RECEIPTS AND SHIPMENTS OF THE COUNTRY ELEVATORS IN THE WESTERN DIVISION IN THE WEEK ENDING JULY 3, 1942

	WHEAT (except Durum)	DURUM WHEAT	OATS	BARLEY	RYE	FLAX- SEED
(bushels)						
<u>COUNTRY ELEVATORS</u>						
<u>STOCKS IN STORE</u>						
Manitoba	16,775,000	325,000	395,000	465,000	106,000	35,000
Saskatchewan	66,215,000	170,000	595,000	405,000	251,000	180,000
Alberta	45,760,000	-	290,000	195,000	54,000	43,000
TOTAL	128,750,000	495,000	1,280,000	1,065,000	411,000	258,000
Total - A Week Ago	132,745,000	515,000	1,400,000	1,125,000	429,000	352,000
A Year Ago	218,945,000	800,000	1,655,000	1,070,000	495,000	257,000
<u>RECEIPTS DURING WEEK</u>						
Manitoba	506,136	33,678	112,975	94,171	5,582	1,983
Saskatchewan	969,330	6,596	103,922	42,647	8,177	14,661
Alberta	544,646	-	35,571	8,539	1,948	894
TOTAL	2,020,112	40,274	252,468	145,357	15,707	17,538
Total - A Week Ago*	1,838,008	48,047	236,001	148,213	9,918	11,845
A Year Ago	4,723,832	142,573	637,079	336,202	75,424	30,019
<u>SHIPMENTS DURING WEEK</u>						
Manitoba	1,302,881	48,728	158,957	126,739	11,542	15,783
Saskatchewan	3,291,825	8,676	139,285	61,147	19,055	84,153
Alberta	1,412,164	-	53,275	17,013	2,772	12,903
TOTAL	6,006,870	57,404	351,517	204,899	33,369	112,839
Total - A Week Ago*	5,778,121	33,278	359,980	211,519	38,723	162,166
A Year Ago	7,413,171	148,551	662,786	381,162	101,971	32,698

* Revised

TOTAL RECEIPTS AT COUNTRY, INTERIOR PRIVATE AND MILL ELEVATORS AND PLATFORM LOADINGS IN THE PERIOD AUGUST 1, 1941 TO JULY 3, 1942

	WHEAT (except Durum)	DURUM WHEAT	OATS	BARLEY	RYE	FLAX- SEED
(bushels)						
Manitoba	37,323,553	1,795,426	8,655,009	15,501,157	1,497,764	1,010,506
Saskatchewan	100,569,092	433,001	10,857,593	6,777,467	3,271,033	3,085,747
Alberta	60,709,726	5,634	10,766,825	3,004,626	353,186	667,415
TOTAL	198,602,371	2,234,061	30,279,427	25,283,250	5,121,983	4,763,668

DAILY QUOTATIONS AND WEEKLY AVERAGES OF ONTARIO COARSE GRAIN DELIVERED IN CARLOTS AT TORONTO WEEK ENDING JULY 4, 1942

	June 29	June 30	July 1	July 2	July 3	July 4	Weekly Average
	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢
Oats, good, sound, heavy	.57	.57		.57	.57	.57	.57
Barley, good malting	.79	.79		.79	.79	.79	.79
Rye No. 2	.75	.75		.75	.75	.75	.75
Corn, Natural	1.15/4	1.15/4		1.15/4	1.15/4	1.15/4	1.15/4
Buckwheat	.76	.76		.76	.76	.76	.76

DAILY QUOTATIONS AND WEEKLY AVERAGES OF CASH GRAIN BY GRADES ON WINNIPEG AND MONTREAL MARKETS

Week ending July 4, 1942

	June 29	June 30	July 1	July 2	July 3	July 4	Weekly Average
	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢	\$ ¢
(Closing Prices. Basis Fort William and Port Arthur)							
<u>WHEAT</u>							
No. 1 Man. Hard	.80/3	.80/3		.80/3	.80/3	.80/4	.80/3
No. 1 Man Northern	.80/3	.80/3		.80/3	.80/3	.80/4	.80/3
No. 2 Man. Northern	.77/2	.77/3		.77/3	.77/3	.77/4	.77/3
No. 3 Man. Northern	.73/5	.73/5		.73/6	.73/6	.73/7	.73/6
No. 4 Man. Northern	.71/3	.71/1		.71/1	.71/3	.71/5	.71/3
No. 5	.69/7	.69/7		.69/7	.69/7	.70	.69/7
No. 6	.67/7	.67/7		.67/7	.67/7	.68	.67/7
Feed	.65/3	.65/3		.65/3	.65/3	.65/4	.65/3
Tough							
No. 1 Hard	.78/3	.78/3		.78/3	.78/3	.78/4	.78/3
No. 1 Northern	.78/3	.78/3		.78/3	.78/3	.78/4	.78/3
No. 2 Northern	.74/2	.74/3		.74/3	.74/3	.74/4	.74/3
No. 3 Northern	.70/7	.70/7		.71	.71	.71/2	.71
Rejected							
No. 1 Northern	.71/3	.71/3	H	.71/3	.71/3	.71/4	.71/3
No. 2 Northern	.70/3	.70/3		.70/3	.70/3	.70/4	.70/3
No. 3 Northern	.67/3	.67/3		.67/3	.67/3	.67/4	.67/3
Smutty							
No. 1 Northern	.73/7	.73/7		.73/7	.73/7	.74	.73/7
No. 2 Northern	.70/7	.70/7		.70/7	.70/7	.71	.70/7
No. 3 Northern	.68/3	.68/3		.68/3	.68/3	.68/4	.68/3
No. 1 Garnet	.73/7	.73/7	O	.73/7	.73/7	.74	.73/7
No. 2 Garnet	.73/3	.73/3		.73/3	.73/3	.73/4	.73/3
No. 3 Garnet	.72/3	.72/3		.72/3	.72/3	.72/4	.72/3
Durum							
No. 1	.82/6	.82/6		.82/6	.82/6	.82/6	.82/6
No. 2	.82/6	.82/6		.82/6	.82/6	.82/6	.82/6
No. 3	.82/6	.82/6	L	.81/7	.81/7	.82	.82/2
<u>OATS</u>							
No. 2 C.W.	.51/4	.51/4		.51/4	.51/4	.51/4	.51/4
No. 3 C.W.	.51/4	.51/4		.51/4	.51/4	.51/4	.51/4
No. 1 Feed	.51/4	.51/4		.51/4	.51/4	.51/4	.51/4
No. 2 Feed	.51/4	.51/4	I	.51/4	.51/4	.51/4	.51/4
No. 3 Feed	.47	.47		.47	.47	.47	.47
<u>BARLEY</u>							
No. 1 C.W. 6 Row	.64/6	.64/6		.64/6	.64/6	.64/6	.64/6
No. 2 C.W. 6 Row	.64/6	.64/6		.64/6	.64/6	.64/6	.64/6
No. 3 C.W. 6 Row	.64/6	.64/6	D	.64/6	.64/6	.64/6	.64/6
No. 1 C.W. 2 Row	.64/6	.64/6		.64/6	.64/6	.64/6	.64/6
No. 2 C.W. 2 Row	.64/6	.64/6		.64/6	.64/6	.64/6	.64/6
No. 1 Feed	.64/6	.64/6		.64/6	.64/6	.64/6	.64/6
No. 2 Feed	.64/2	.64/2		.64/6	.64/6	.64/6	.64/6
No. 3 Feed	.62/6	.62/6	A	.64/2	.64/2	.64/2	.64/2
<u>RYE</u>							
No. 2 C.W.	.54	.54/7		.55/1	.54/7	.55/2	.54/7
No. 3 C.W.	.51/3	.52/3		.52/5	.52/3	.52/6	.52/2
No. 4 C.W.	.50/1	.50/7	Y	.51/1	.50/7	.51/2	.50/7
Ergoty	.45/1	.45/7		.46/1	.45/7	.46/2	.45/7
Rejected No. 2 C.W.	.49/1	.49/7		.50/1	.49/7	.50/2	.49/7

MONTREAL

Ontario Winter wheat - delivered in carlots

No. 1 White	1.26	1.26	1.26	1.26	1.26	1.26
No. 2 White	1.25	1.25	1.25	1.25	1.25	1.25
No. 3 White	1.24	1.24	1.24	1.24	1.24	1.24
No. 1 Red	1.26	1.26	1.26	1.26	1.26	1.26
No. 2 Red	1.25	1.25	1.25	1.25	1.25	1.25
No. 3 Red	1.24	1.24	1.24	1.24	1.24	1.24
No. 1 Mixed	1.26	1.26	1.26	1.26	1.26	1.26
No. 2 Mixed	1.25	1.25	1.25	1.25	1.25	1.25
No. 3 Mixed	1.24	1.24	1.24	1.24	1.24	1.24

INSPECTIONS - EASTERN DIVISION

June and eleven months ending June 1942

	June	11 months June 1942	June	11 months June 1942
	bushels		bushels	
<u>CANADIAN GRAIN</u>				
<u>WHITE WINTER WHEAT</u>				
No. 1 C.E.	3,000	65,500	37,394	234,731
No. 2 C.E.	-	13,000	3,000	47,776
No. 3 C.E.	-	2,000	-	76,273
No. 4 C.E.	-	1,000	-	1,064
Smutty 1 C.E.	-	1,000	-	24,266
Sample C.E.	-	1,000	-	8,643
<u>RED WINTER WHEAT</u>				
No. 1 C.E.	-	24,275	-	3,100
No. 2 C.E.	-	1,000	-	1,200
Smutty 1 C.E.	-	3,050	5,416	78,591
<u>MIXED WINTER WHEAT</u>				
No. 1 C.E.	6,000	392,403	2,000	20,044
No. 1 C.E. 1% Dockage	-	1,000	-	1,100
No. 2 C.E.	-	75,270	-	380,073
No. 3 C.E.	-	5,000	-	24,400
Tough 1 C.E.	-	1,293	-	1,000
Tough 2 C.E.	-	2,000	-	116,144
Smutty 1 C.E.	-	28,200	-	69,906
Smutty 2 C.E.	-	2,000	-	7,000
Smutty 3 C.E.	-	1,000	-	42,260
Sample C.E.	-	9,000	-	32,384
Sample C.E. Musty	-	5,590	-	22,000
TOTAL	9,000	634,581	2,000	5,000
<u>OATS</u>				
No. 1 C.E. White	-	1,500	-	10,414
No. 2 C.E. White	-	4,754	-	3,569
No. 3 C.E.	-	3,035	-	1,100
TOTAL	-	9,289	-	1,173
<u>BARLEY</u>				
No. 1 C.E. 6 Row	-	1,250	-	2,168
No. 2 C.E. 6 Row	-	2,500	-	1,200
No. 3 C.E. 6 Row	-	4,186	-	1,100
Sample C.E. 6 Row	-	1,250	-	-
No. 4 C.E.	-	1,250	-	-
TOTAL	-	10,436	-	-
<u>BUCKWHEAT</u>				
2 C.E.	-	2,950	-	1,000
Damp 1 C.E.	-	1,250	-	1,000
Damp 2 C.E.	-	5,050	-	900
Damp 3 C.E.	-	800	-	2,000
Damp Sample Musty and Heating	-	1,300	-	1,000
Sample Marked Damp 4 C.E.	-	1,102	-	-
TOTAL	-	12,452	-	-
8 cars inspected at Chatham 32 cars inspected at Toronto				
<u>YELLOW CORN</u>				
No. 1 C.E.	-	-	-	234,731
No. 2 C.E.	-	-	-	47,776
No. 3 C.E.	-	-	-	76,273
No. 4 C.E.	-	-	-	1,064
1 C.E. Extra Dry	-	-	-	24,266
2 C.E. Extra Dry	-	-	-	8,643
3 C.E. Extra Dry	-	-	-	3,100
4 C.E. Extra Dry	-	-	-	1,200
Tough 1 C.E.	-	-	5,416	78,591
Tough 2 C.E.	-	-	2,000	20,044
Tough 3 C.E.	-	-	-	1,100
Damp 1 C.E.	-	-	-	380,073
Damp 2 C.E.	-	-	-	24,400
Damp 4 C.E.	-	-	-	1,000
Moist 1 C.E.	-	-	-	116,144
Moist 2 C.E.	-	-	-	69,906
Moist 3 C.E.	-	-	-	7,000
Wet 2 C.E.	-	-	-	42,260
Wet 3 C.E.	-	-	-	32,384
Wet Sample C.E.	-	-	-	22,000
Sample C.E.	-	-	2,000	5,000
Sample C.E. Heating	-	-	-	10,414
Sample Marked 1 C.E.	-	-	-	3,569
Sample Marked 2 C.E.	-	-	-	1,100
Sample Marked 1 C.E. Extra Dry	-	-	-	1,173
Sample Marked Tough 1 C.E.	-	-	-	2,168
Sample Marked Damp 1 C.E.	-	-	-	10,613
Sample Marked Moist 1 C.E.	-	-	-	3,277
Sample Marked Moist 2 C.E.	-	-	-	2,040
Sample Marked Special Mouldy	-	-	-	1,020
Others	-	-	-	812
<u>WHITE CORN</u>				
Damp 1 C.E.	-	-	-	2,116
Moist 2 C.E.	-	-	-	1,200
Sample Marked 2 C.E.	-	-	-	1,100
<u>MIXED CORN</u>				
No. 1 C.E.	-	-	-	1,000
No. 2 C.E.	-	-	-	2,100
No. 3 C.E.	-	-	-	1,018
No. 4 C.E.	-	-	-	1,200
1 C.E. Extra Dry	-	-	1,000	1,000
2 C.E. Extra Dry	-	-	-	1,000
Tough 1 C.E.	-	-	-	900
Damp 1 C.E.	-	-	-	2,000
Moist 1 C.E.	-	-	-	1,000
TOTAL	-	-	50,810	1,248,775
<u>RECAPITULATION OF CANADIAN GRAIN</u>				
Wheat	9,000	634,581		
Oats	-	9,289		
Barley	-	10,436		
Buckwheat	-	12,452		
Corn	50,810	1,248,775		
TOTAL	59,810	1,915,533		

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