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Ottawa, June 6, 1941, 3 p.m.- The Dominion Bureau of Statistics issues today a report on the numerical condition of field crops in Canada at the end of May. The condition figures are compiled from the returns of the Bureau's corps of crop correspondents, with the exception of the wheat condition figures in the three Prairie Provinces. Commencing with this report, the Prairie wheat condition figures will be based upon the weather developments to date, in order to provide a more sensitive indication of the changes in wheat crop prospects.

SUMMARY

Spring wheat prospects at May 31 for Canada as a whole were somewhat more promising than at the same date last year. The small spring wheat areas across eastern Canada have made better progress to date this year. In Manitoba to May 31, the weather conditions have been more favourable to wheat than in any of the past fourteen years. Saskatchewan conditions, while a little below normal, were better than in the past four years at May 31. Owing to the shortage of spring rainfall, the condition of the Alberta wheat crop was slightly below normal at the end of May, and was below the more favourable conditions that have prevailed at May 31 for the past three years. Comparatively dry weather in Ontario has lowered the prospects for the fall wheat crop, as compared with those of last year. For Canada as a whole, the May 31 condition of coarse grains, including oats, barley, fall and spring rye and mixed grains, was better than at the same date a year ago. Peas are also in better condition this year. On the other hand, hay and clover meadows and pastures at May 31 were below last year's condition in Quebec, Ontario, Alberta and British Columbia, thereby placing the forage crops slightly below normal and below last year's condition across Canada. Alfalfa crops at May 31 were similarly below last year's condition.

In the Maritime Provinces, hay and clover meadows and pastures experienced practically no winter-kill, and were in slightly better condition at May 31 than a year ago. Late seeding more than any other factor resulted in the reporting of lower condition figures for coarse grains in Prince Edward Island and Nova Scotia than were reported at May 31 last year. On the other hand, New Brunswick has had an earlier season, and the condition of the cereal crops is slightly better than a year ago. Early seeding conditions in Quebec have resulted in better than average progress of the cereal crops up to May 31. Dry weather during the early part of May slightly retarded the growth of hay and clover crops and pastures. An unusually dry May in Ontario retarded the growth of the fall wheat and fall rye crops as well as that of hay and clover fields and pastures. At the same time, the dry weather permitted the early seeding of spring grains, so that spring wheat, oats, barley and mixed grains were more advanced at May 31 than at the same date last year.

Approximately average prospects for wheat yields in the Prairie Provinces as a whole were indicated at the end of May. This year for the first time the wheat condition figures in the Prairie Provinces are based on an analysis of weather factors which affords a more sensitive indication of the month-to-month changes in Prairie wheat crop prospects. Due to the exceptionally favourable April and May precipitation in Manitoba, the May 31 wheat condition figure for that province stood at 128 per cent of the long-time average yield, as compared with 106 per cent at May 31, 1940. Although the spring precipitation in Saskatchewan has been slightly better than normal, this has not offset a deficiency in the pre-seasonal moisture, and the Saskatchewan May 31 condition figure for wheat stands at 92 per cent of the long-time average yield, as compared with 84 per cent a year ago. Slightly sub-normal spring moisture supplies on the average for Alberta have placed the May 31 wheat condition figure for that province at 98 as compared with 101 a year ago. The condition of all other crops in Manitoba and Saskatchewan, based on the crop correspondents' reports, is higher this year than at May 31, 1940. Alberta, on the other hand, shows somewhat lower May 31 prospects for the coarse grains and forage crops.

Approximately normal crop prospects are indicated for all field crops in British Columbia.

Weather Conditions Since June 1

The week-end of June 1 was marked by heavy showers across southern Manitoba and southern Alberta and over the greater part of Saskatchewan, and on June 5 further showers occurred across southern Manitoba and southern Saskatchewan. Elsewhere in Canada, crop prospects remain substantially unchanged from May 31.

Numerical Condition of Field Crops

For all Canada, the condition of the principal field crops at May 31, 1941, expressed in percentages of the long-time average yields per acre, was as follows, with the condition figures at the same date last year within brackets: Fall wheat 91 (98); spring wheat 98 (92); all wheat 98 (92); oats 94 (92); barley 93 (91); fall rye 89 (88); spring rye 95 (93); all rye 91 (89); peas 97 (91); mixed grains 94 (92); hay and clover 95 (99); alfalfa 90 (100); pastures 94 (98).

In the Prairie Provinces, the condition of the principal grain crops at May 31 was as follows, with last year's condition at the same date within brackets: Manitoba - Wheat 128 (106); oats 95 (92); barley 94 (91); rye 99 (91). Saskatchewan - Wheat 92 (84); oats 94 (89); barley 94 (88); rye 87 (85). Alberta - Wheat 98 (101); oats 91 (95); barley 92 (95); rye 92 (98).

Wheat Condition Figures for the Prairie Provinces Based on Weather Factors

The present condition report publishes for the first time the wheat condition figures for the Prairie Provinces, based upon the actual weather developments to date. Since 1937 the Dominion Bureau of Statistics has been working on an analysis of the relations between weather factors and wheat yields, the first results of which were published in the Proceedings of the Tenth Annual Meeting of the Canadian Agricultural Economics Society, June, 1938, pp. 73-86. In addition to the analysis for the province of Saskatchewan presented in that report, successful analyses relating the variations in crop yields to changes in pre-seasonal and seasonal rainfall and seasonal temperatures have been completed for the provinces of Manitoba and Saskatchewan. These analyses will be published in the April-June, 1941 issue of the Quarterly Bulletin of Agricultural Statistics, which is replacing the Monthly Bulletin of Agricultural Statistics issued by the Dominion Bureau of Statistics.

On page 4 of this report the new long-time average yields for all crops, based on the 1908-1940 period, are shown. These replace the 1908-1930 average yields used in conjunction with the condition reports over the past ten years. On pages 5 and 6, a comparison is afforded between the wheat condition figures in the Prairie Provinces based on the weather factors, and those based on the returns of crop correspondents as they both relate to the condition figures corresponding with the final yields per acre for each year's crop. The three sets of condition figures employed in the comparison have been adjusted to percentages of the new 1908-1940 long-time average yields per acre for each province.

A comparison of the condition figures shown on pages 5 and 6 will indicate that in 7 out of 10 instances, the condition figures based on weather factors approximate more closely the final yield of the crop than have the previously published condition figures. In the majority of the remaining instances where the previously employed condition figures have been more sensitive to changes in crop prospects, the reasons have been the occurrence of heavy rust or insect damage, which in turn have not been related to changes in the weather factors. In actual practice in the future, the wheat condition figures based upon the weather factors can be adjusted in the event of abnormal grasshopper activity, or in the event of rust damage, which will be more improbable in the future than in the past. Accordingly, use of the condition figures based on weather factors is expected year in and year out to provide a more accurate indication of the numerical change in Prairie wheat prospects than has been available in the past.

Condition of Field Crops, May 31, 1937 - 1941

(Note: 100 = the long-time average yield per acre)

Field Crops	1937 p.c.	1938 p.c.	1939 p.c.	1940 p.c.	1941 p.c.
Canada					
Fall wheat	98	96	98	98	91
Spring wheat 1/	85	101	94	92	98
All wheat 1/	85	101	94	92	98
Oats	90	97	93	92	94
Barley	93	96	93	91	93
Fall rye	69	98	85	88	89
Spring rye	83	99	95	93	95
All rye	73	98	87	89	91
Peas	93	97	93	91	97
Mixed grains	92	99	93	92	94
Hay and clover	90	100	94	99	95
Alfalfa	89	95	95	100	90
Pasture	92	100	92	98	94
P. E. Island					
Spring wheat	99	91	89	101	100
Oats	94	96	93	100	93
Barley	99	88	93	99	92
Mixed grains	94	94	94	99	101
Hay and clover	104	93	84	102	104
Pasture	105	93	84	101	102
Nova Scotia					
Spring wheat	95	98	96	94	100
Oats	94	97	96	98	89
Barley	91	97	97	95	86
Mixed grains	95	97	96	96	77
Hay and clover	100	97	90	100	101
Pasture	99	94	83	97	99
New Brunswick					
Spring wheat	96	92	99	93	95
Oats	87	90	98	96	96
Barley	89	89	99	97	98
Mixed grains	100	96	100	97	102
Hay and clover	94	98	86	101	101
Pasture	95	96	84	98	100
Quebec					
Spring wheat	91	97	96	95	100
Oats	92	99	97	96	102
Barley	89	98	96	97	101
Spring rye	95	98	94	97	99
Peas	95	98	97	96	104
Mixed grains	94	99	97	97	101
Hay and clover	91	105	96	100	97
Alfalfa	85	102	96	100	100
Pasture	92	104	96	100	96
Ontario					
Fall wheat	98	96	98	98	91
Spring wheat	92	97	91	88	94
All wheat	97	96	97	98	91
Oats	91	98	91	89	94
Barley	91	97	91	89	91
Fall rye	96	96	94	97	91
Peas	92	97	91	89	94
Mixed grains	92	99	92	91	92
Hay and clover	87	97	97	101	91
Alfalfa	89	94	96	101	88
Pasture	92	99	93	99	88

Field Crops	1937 p.c.	1938 p.c.	1939 p.c.	1940 p.c.	1941 p.c.
Manitoba					
Spring wheat 2/	108	114	104	106	128
Oats	97	97	91	92	95
Barley	96	97	91	91	94
Fall rye	96	97	87	91	100
Spring rye	96	96	91	90	93
All rye	96	97	88	91	99
Peas	105	97	91	90	95
Mixed grains	96	96	90	91	93
Hay and clover	92	96	84	79	103
Alfalfa	93	96	88	83	102
Pasture	97	96	81	80	106
Saskatchewan					
Spring wheat 2/	75	88	87	84	92
Oats	84	96	91	89	94
Barley	89	96	92	88	94
Fall rye	51	97	81	84	84
Spring rye	79	99	95	91	96
All rye	59	98	85	85	87
Mixed grains	81	92	90	91	97
Hay and clover	78	91	90	82	98
Alfalfa	88	96	95	89	99
Pasture	68	95	91	82	99
Alberta					
Spring wheat 2/	94	118	104	101	98
Oats	92	96	97	95	91
Barley	94	96	97	95	92
Fall rye	74	101	85	99	89
Spring rye	83	99	96	97	94
All rye	79	100	89	98	92
Peas	90	99	95	95	86
Mixed grains	88	96	94	94	88
Hay and clover	84	97	92	100	81
Alfalfa	85	98	94	102	85
Pasture	80	98	90	101	81
British Columbia					
Spring wheat	96	94	97	101	99
Oats	94	94	99	101	99
Barley	95	90	98	100	98
Spring rye	96	93	101	100	102
Peas	95	98	101	100	102
Mixed grains	94	95	99	100	100
Hay and clover	95	94	97	104	101
Alfalfa	96	97	98	104	101
Pasture	98	96	98	104	101

1/ Includes condition figures for Prairie Provinces based on weather factors.

2/ Condition figures based on weather factors.

LONG-TIME AVERAGE YIELDS PER ACRE OF FIELD CROPS

The long-time average yields per acre below are revised slightly from those in use during the past ten years. The figures below represent the average of the annual yields in most instances from 1908 to 1940, and result from 33 years of continuous co-operation on the part of crop correspondents.

Crops	Canada	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.
Fall wheat	24	-	-	-	-
Spring wheat	16	17	18	18	17
All wheat	16	17	18	18	17
Oats	31	33	33	29	27
Barley	24	28	27	26	24
Fall rye	13	-	-	-	-
Spring rye	12	-	-	-	16
All rye	13	-	-	-	16
Peas	17	-	-	-	15
Beans	17	-	-	18	18
Buckwheat	22	25	23	23	23
Mixed grains	34	37	33	30	27
Flaxseed	8	-	-	-	10
Corn for husking (shelled)	45	-	-	-	-
	cwt.	cwt.	cwt.	cwt.	cwt.
Potatoes	85	105	104	113	91
Turnips, etc.	193	254	232	200	172
	tons	tons	tons	tons	tons
Hay and clover	1.5	1.5	1.7	1.4	1.4
Alfalfa	2.4	-	-	-	2.4
Fodder corn	8.8	8.6	8.5	8.2	8.8
Sugar beets	9.4	-	-	-	-

Crops	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.	Yield per acre bush.
Fall wheat	25	-	-	-	-
Spring wheat	19	16	15	18	25
All wheat	24	16	15	18	25
Oats	35	30	29	34	49
Barley	30	23	22	25	34
Fall rye	17	15	12	12	-
Spring rye	-	14	12	11	20
All rye	-	15	12	12	-
Peas	17	18	-	18	26
Beans	17	-	-	14	23
Buckwheat	22	15	-	-	-
Mixed grains	36	25	23	28	38
Flaxseed	11	9	8	8	13
Corn for husking (shelled)	47	-	-	-	-
	cwt.	cwt.	cwt.	cwt.	cwt.
Potatoes	67	78	73	83	112
Turnips	197	115	92	115	214
	tons	tons	tons	tons	tons
Hay and clover	1.6	1.6	1.5	1.4	2.0
Alfalfa	2.5	2.1	1.9	2.3	3.2
Fodder corn	9.4	5.1	3.6	4.0	10.5
Sugar beets	9.3	-	-	9.3	-

Comparison of Wheat Condition Figures based on (1) weather factors (2) previously published figures adjusted to the new long-time average yields to permit proper comparison, and (3) the final yields per acre expressed as condition figures, Prairie Provinces, 1921-40.

Year	Condition Based on Weather Factors				Published Condition Figures adjusted to 1908-1940 long-time yields			
	May 31	June 30	July 31	Condition based on final yield per acre	May 31	June 30	July 31	Condition based on final yield per acre
				MANITOBA				
1921	111	99	93	70	113	114	94	70
1922	121	121	133	120	104	99	103	120
1923	86	82	83	77	94	100	96	77
1924	82	84	97	106	87	86	93	106
1925	95	117	116	111	98	97	109	111
1926	108	128	128	141	93	89	89	141
1927	132	136	148	88	85	90	95	88
1928	92	114	128	123	102	103	105	123
1929	112	97	89	78	98	90	70	78
1930	101	101	99	111	98	101	99	111
1931	94	71	74	67	93	63	59	67
1932	99	104	111	104	103	101	97	104
1933	124	98	86	81	104	89	72	81
1934	96	96	86	91	86	84	70	91
1935	104	123	132	56	105	108	65	56
1936	91	90	59	64	101	93	64	64
1937	108	109	109	98	106	107	95	98
1938	114	99	99	98	105	95	92	98
1939	104	121	113	120	99	102	89	120
1940	106	117	124	118	103	101	90	118
				SASKATCHEWAN				
1921	108	85	105	93	104	107	101	93
1922	137	122	130	135	99	96	89	135
1923	111	128	150	141	100	107	110	141
1924	91	95	82	68	99	94	75	68
1925	107	129	125	125	99	104	105	125
1926	114	113	107	108	101	99	87	108
1927	131	123	147	130	91	95	101	130
1928	119	148	151	155	98	100	105	155
1929	93	89	75	74	108	97	71	74
1930	89	95	95	96	105	100	91	96
1931	78	53	55	59	84	49	46	59
1932	83	80	99	91	100	104	90	91
1933	111	77	71	58	108	80	57	58
1934	49	73	64	57	79	84	58	57
1935	84	105	108	72	105	105	92	72
1936	95	93	47	50	103	87	49	50
1937	75	37	17	17	85	37	15	17
1938	88	77	80	67	108	100	81	67
1939	87	123	115	127	100	110	97	127
1940	84	92	101	117	102	97	88	117

Comparison of Wheat Condition Figures based on (1) weather factors (2) previously published figures adjusted to the new long-time average yields to permit proper comparison, and (3) the final yields per acre expressed as condition figures, Prairie Provinces, 1921-40 (concluded).

Year	Condition Based on Weather Factors				Published Condition Figures adjusted to 1908-1940 long-time yields			
	May 31	June 30	July 31	Condition based on final yield per acre	May 31	June 30	July 31	Condition based on final yield per acre
				ALBERTA				
1921	59	42	51	58	99	81	87	58
1922	92	73	64	63	91	79	73	63
1923	104	145	155	156	114	128	128	156
1924	79	63	68	61	90	86	70	61
1925	96	99	100	102	94	98	103	102
1926	104	107	97	103	90	91	80	103
1927	141	143	160	152	85	92	92	152
1928	81	126	134	142	94	97	101	142
1929	79	67	60	68	102	84	66	68
1930	88	101	106	114	98	90	87	114
1931	86	104	106	98	84	77	77	98
1932	114	118	118	113	101	104	96	113
1933	103	84	80	72	97	79	61	72
1934	76	91	83	83	88	91	78	83
1935	87	93	95	73	95	92	81	73
1936	99	83	50	49	95	83	40	49
1937	94	78	87	54	92	63	51	54
1938	118	98	101	103	98	90	90	103
1939	104	114	107	107	95	104	89	107
1940	101	93	104	120	97	95	98	120

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