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DOMINION BUREAU OF STATISTICS

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Crop Reporting Series - No. 1

SUMMERFALLOW AND STUBBLE, ACREAGE AND YIELD OF SPECIFIED CROPS PRAIRIE PROVINCES

Wheat sown on summerfallow land in the Prairie Provinces in 1961 averaged 11.9 bushels per acre, compared with 6.4 bushels for crops on stubble lands. In 1960, summerfallow wheat averaged 22.7 bushels while wheat sown on stubble lands averaged 15.3 bushels per acre. For other major field crops, the average yields in 1961, in bushels per acre, obtained from summerfallow with stubble yields in brackets, are as follows: oats, 27.9 (19.7); barley, 23.3 (17.0); flaxseed, 7.8 (4.8); and rapeseed, 16.7 (10.6). The percentages of these crops grown on summerfallow in 1961, with percentages sown on stubble in brackets, are as follows: wheat, 72 (28); oats, 34 (66); barley, 43 (57); flaxseed, 54 (46); and rapeseed, 72 (28).

This is the fourth year that a survey has been conducted by the Dominion Bureau of Statistics in cooperation with the Provincial Departments of Agriculture, to ascertain the relationship of average yields obtained by farmers in the Prairie Provinces for crops grown on summerfallow and stubble, as well as the distribution of the acreage of the major field crops between summerfallow and stubble. Estimates in this report are based on returns from farmer and elevator agent correspondents reporting in December 1961. Production estimates derived from this survey differed only slightly from those obtained for the November estimate and the results were adjusted to agree with that report (C.R. 23).

Prepared in the Crops Section, Agriculture Division

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1960 and 1961
Specified Crops

Crop	Seeded Acreage		Distribution		Average Yield per Seeded Acre		Production	
	1960	1961	1960°	1961	1960	1961	1960	1961
	000 ac.	per cent		bu.	million bu.			
PRAIRIE PROVINCES								
<u>Wheat</u>								
Summerfallow	16,810	16,713	74	72	22.7	11.9	381.7	198.6
Stubble	5,780	6,449	26	28	15.3	6.4	88.3	41.4
Total	22,590	23,162	100	100	20.8	10.4	470.0	240.0
<u>Oats</u>								
Summerfallow	2,578	2,789	33	34	46.8	27.9	120.7	77.8
Stubble	5,335	5,500	67	66	34.4	19.7	183.3	108.2
Total	7,913	8,289	100	100	38.4	22.4	304.0	186.0
<u>Barley</u>								
Summerfallow	3,116	2,558	43	43	34.3	23.3	106.8	59.6
Stubble	4,080	3,378	57	57	23.1	17.0	94.2	57.4
Total	7,196	5,936	100	100	27.9	19.7	201.0	117.0
<u>Flaxseed</u>								
Summerfallow	1,390	1,253	54	54	10.1	7.8	14.0	9.8
Stubble	1,167	1,087	46	46	7.5	4.8	8.7	5.2
Total	2,557	2,340	100	100	8.9	6.4	22.7	15.0
<u>Rapeseed</u>								
Summerfallow	520	534	68	72	16.6	16.7	8.62	8.92
Stubble	243	211	32	28	10.3	10.6	2.50	2.24
Total	763	745	100	100	14.6	15.0	11.12	11.16
MANITOBA								
<u>Wheat</u>								
Summerfallow	2,000	1,921	75	69	25.0	13.3	50.1	25.5
Stubble	659	844	25	31	18.1	7.7	11.9	6.5
Total	2,659	2,765	100	100	23.3	11.6	62.0	32.0
<u>Oats</u>								
Summerfallow	323	410	18	20	48.9	25.4	15.8	10.4
Stubble	1,508	1,603	82	80	34.6	16.6	52.2	26.6
Total	1,831	2,013	100	100	37.1	18.4	68.0	37.0
<u>Barley</u>								
Summerfallow	395	303	37	38	33.9	18.2	13.4	5.5
Stubble	676	492	63	62	21.6	11.2	14.6	5.5
Total	1,071	795	100	100	26.1	13.8	28.0	11.0
<u>Flaxseed</u>								
Summerfallow	181	182	26	25	11.0	8.8	2.0	1.6
Stubble	526	546	74	75	8.4	5.3	4.4	2.9
Total	707	728	100	100	9.1	6.2	6.4	4.5
<u>Rapeseed</u>								
Summerfallow	22	20	67	65	15.9	13.0	0.35	0.26
Stubble	11	11	33	35	11.8	7.3	0.13	0.09
Total	33	31	100	100	14.5	11.1	0.48	0.34

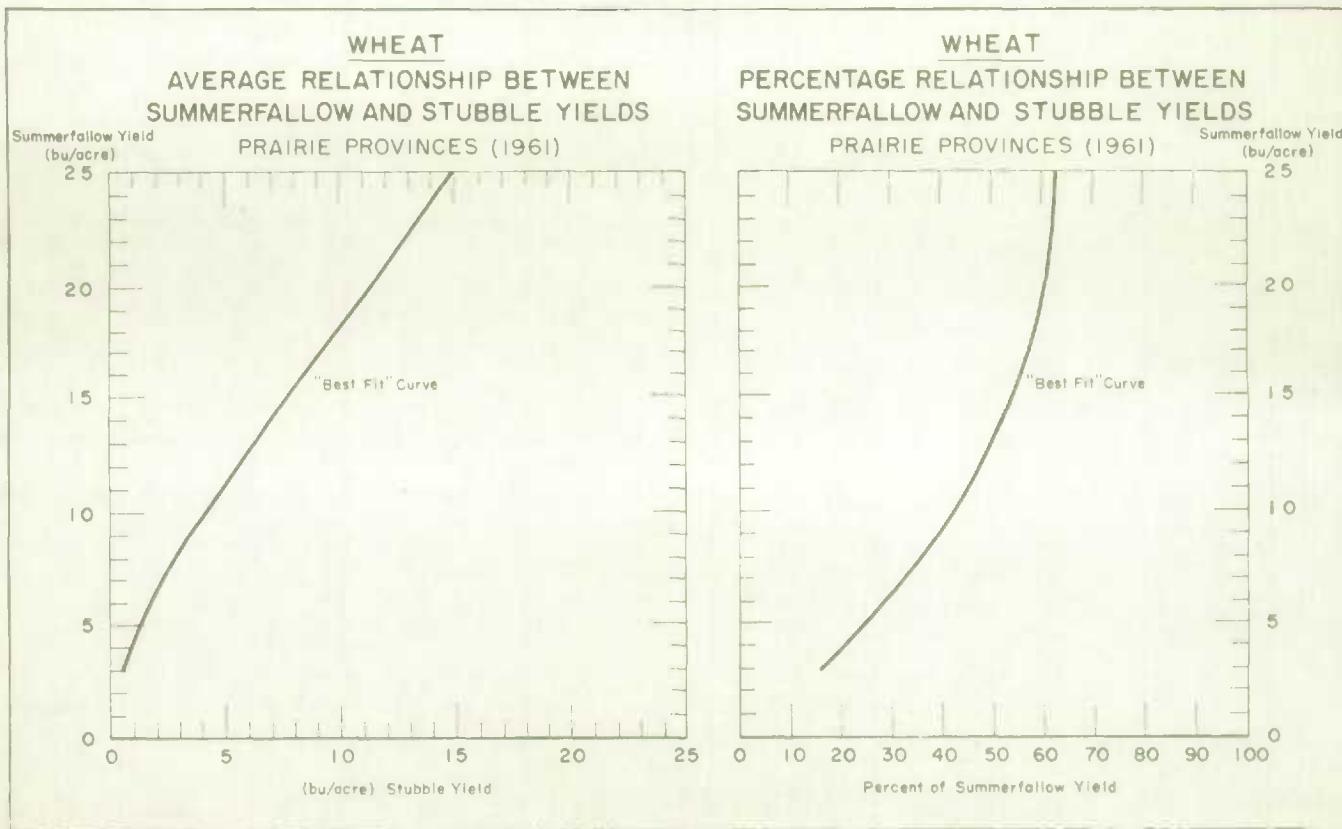
Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1960 and 1961
Specified Crops

Crop	Seeded Acreage		Distribution		Average Yield per Seeded Acre		Production	
	1960	1961	1960	1961	1960	1961	1960	1961
000 ac.		per cent		bu.		million bu.		
SASKATCHEWAN								
<u>Wheat</u>								
Summerfallow	11,122	11,008	75	73	22.6	9.7	251.1	106.6
Stubble	3,749	4,085	25	27	15.2	4.3	56.9	17.4
Total	14,871	15,093	100	100	20.7	8.2	308.0	124.0
<u>Oats</u>								
Summerfallow	1,233	1,345	37	39	45.7	17.8	56.4	24.0
Stubble	2,119	2,089	63	61	32.8	9.6	69.6	20.0
Total	3,352	3,434	100	100	37.6	12.8	126.0	44.0
<u>Barley</u>								
Summerfallow	1,298	1,003	49	49	32.7	14.2	42.5	14.2
Stubble	1,337	1,031	51	51	22.8	7.6	30.5	7.8
Total	2,635	2,034	100	100	27.7	10.8	73.0	22.0
<u>Flaxseed</u>								
Summerfallow	771	745	62	64	9.9	6.2	7.6	4.6
Stubble	479	417	38	36	6.5	2.9	3.1	1.2
Total	1,250	1,162	100	100	8.6	5.0	10.7	5.8
<u>Rapeseed</u>								
Summerfallow	381	334	69	75	16.3	14.3	6.20	4.76
Stubble	169	114	31	25	10.6	9.3	1.80	1.06
Total	550	448	100	100	14.5	13.0	8.00	5.82
ALBERTA								
<u>Wheat</u>								
Summerfallow	3,688	3,784	73	71	21.8	17.6	80.5	66.5
Stubble	1,372	1,520	27	29	14.2	11.5	19.5	17.5
Total	5,060	5,304	100	100	19.8	15.8	100.0	84.0
<u>Oats</u>								
Summerfallow	1,022	1,034	37	36	47.5	42.0	48.5	43.4
Stubble	1,708	1,808	63	64	36.0	34.1	61.5	61.6
Total	2,730	2,842	100	100	40.3	36.9	110.0	105.0
<u>Barley</u>								
Summerfallow	1,423	1,252	41	40	35.8	31.9	50.9	39.9
Stubble	2,067	1,855	59	60	23.8	23.8	49.1	44.1
Total	3,490	3,107	100	100	28.7	27.0	100.0	84.0
<u>Flaxseed</u>								
Summerfallow	438	326	73	72	10.0	11.0	4.4	3.6
Stubble	162	124	27	28	7.5	8.9	1.2	1.1
Total	600	450	100	100	9.3	10.4	5.6	4.7
<u>Rapeseed</u>								
Summerfallow	117	180	65	68	17.7	21.7	2.07	3.90
Stubble	63	86	35	32	9.0	12.8	0.57	1.10
Total	180	266	100	100	14.7	18.8	2.64	5.00



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The two charts presented above indicate the average and percentage relationship between summerfallow and stubble wheat yields per acre in 1961. Crop district average yields for each of the Prairie Provinces were plotted and a free hand curve was fitted to the data.

The left-hand curve is practically straight over a considerable range of average yields indicating the difference in output between the summerfallow and stubble tends to be constant. It will be noted that when average summerfallow yields fell below 10 bushels per acre, stubble crops rapidly approached the complete failure category. The right-hand curve presents the same data with stubble yields as a per cent of summerfallow plotted against summerfallow average yields per acre. When summerfallow yields averaged about 13 bushels per acre, stubble yields were approximately 50 per cent and this percentage declined rapidly as summerfallow yields fell below this average.