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SUMMERFALLOW AND STUBBLE, ACREAGE AND YIELD OF SPECIFIED CROPSPRAIRIE PROVINCES

Wheat sown on summerfallow land in the Prairie Provinces in 1964 averaged 21.3 bushels per acre, compared with an average yield of 14.8 bushels on stubble land. In 1963, summerfallow wheat averaged 27.7 bushels, while wheat sown on stubble lands averaged 19.0 bushels per acre. For other major field crops, the average yields in 1964, in bushels per acre, obtained from summerfallow with stubble yields in brackets, were as follows: oats for grain, 49.2 (37.7); barley, 37.3 (25.9); flaxseed, 11.3 (8.6); and rapeseed, 17.9 (12.6). The percentages of these crops grown on summerfallow in 1964 in the Prairie Provinces, with percentages sown on stubble in brackets, are as follows: wheat, 78 (22); oats for grain, 27 (73); barley, 37 (63); flaxseed, 39 (61); and rapeseed, 60 (40).

The proportion of each crop, included in this report, sown on summerfallowed land in the Prairie Provinces in 1964 declined compared with the previous year and the five-year average. However, the decline in the percentage of acreage seeded on summerfallow was largest for crops other than wheat. For example, during the 1958-1962 period some 59 percent of the flaxseed was sown on summerfallow in contrast to 39 percent in 1964, while during the same period wheat declined from 81 to 78 percent.

Stubble yields as a percent of those obtained from summerfallowed lands for the Prairie Provinces were higher for all crops in 1964 than was the case during the 1958-62 period. These percentages with the 1963 and 1958-62 average in brackets respectively are: wheat, 69 (69, 64); oats for grain, 77 (71, 72); barley, 69 (68, 68); flaxseed, 76, (76, 70) and rapeseed, 70 (59, 62). Although these percentages vary considerably from year to year and between crops and provinces the data tend to indicate that average stubble yields are showing gradual improvement relative to those obtained on summerfallow. Where the ratio of stubble to summerfallow yield is largest as is the case for oats for grain and flaxseed, a larger proportion of these crops are planted on second crop land than is the case for wheat and rapeseed, where the ratio is lowest. Barley appears to be an exception in that a high percentage of the crop is planted on second crop land despite the fact that stubble yields, relative to those obtained from summerfallow, tend to be low.

Estimates in this report are based on returns from farmer and elevator agent correspondents reporting in December 1964. This is the seventh year that a survey has been conducted by the Dominion Bureau of Statistics in co-operation 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.

Prepared in the Crops Section, Agriculture Division

5502-508.1

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1964, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average	1963	1964	Average	1963	1964	Average	1963	1964	Average	1963	1964
	1958- 1962			1958- 1962			1958- 1962			1958- 1962		
	'000 acres			per cent			bushels			million bushels		
<u>PRAIRIE PROVINCES</u>												
<u>Wheat</u>												
Summerfallow	19,437	21,793	22,685	81	81	78	18.8	27.7	21.3	366.0	603.9	483.5
Stubble	4,606	5,203	6,395	19	19	22	12.0	19.0	14.8	55.2	99.1	94.5
Total	24,043	26,996	29,080	100	100	100	17.5	26.0	19.9	421.2	703.0	578.0
<u>Oats for grain</u>												
Summerfallow	2,127	2,026	1,355	35	32	27	43.4	60.7	49.2	92.4	122.9	66.7
Stubble	3,884	4,234	3,699	65	68	73	31.4	42.8	37.7	122.0	181.1	139.3
Total	6,011	6,260	5,054	100	100	100	35.7	48.6	40.8	214.4	304.0	206.0
<u>Barley</u>												
Summerfallow	3,249	2,539	1,922	48	43	37	31.4	44.1	37.3	102.0	111.9	71.6
Stubble	3,539	3,383	3,295	52	57	63	21.5	29.9	25.9	76.2	101.1	85.4
Total	6,788	5,922	5,217	100	100	100	26.3	36.0	30.1	178.2	213.0	157.0
<u>Flaxseed</u>												
Summerfallow	1,241	710	716	59	44	39	9.8	14.4	11.3	12.1	10.2	8.1
Stubble	855	919	1,139	41	56	61	6.9	11.0	8.6	5.9	10.1	9.8
Total	2,096	1,629	1,855	100	100	100	8.6	12.5	9.6	18.0	20.3	17.9
<u>Rapeseed</u>												
Summerfallow	409	317	423	76	66	60	16.2	20.3	17.9	6.61	6.42	7.57
Stubble	128	161	277	24	34	40	10.1	12.0	12.6	1.29	1.94	3.50
Total	537	478	700	100	100	100	14.7	17.5	15.8	7.90	8.36	11.07

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1964, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average	1963	1964	Average	1963	1964	Average	1963	1964	Average	1963	1964
	1958- 1962			1958- 1962			1958- 1962			1958- 1962		
	'000 acres			per cent			bushels			million bushels		
MANITOBA												
Wheat												
Summerfallow	2,232	2,393	2,522	80	76	75	22.9	20.8	26.7	51.2	49.7	67.3
Stubble	550	760	863	20	24	25	17.1	14.9	20.5	9.4	11.3	17.7
Total	2,782	3,153	3,385	100	100	100	21.8	19.3	25.1	60.6	61.0	85.0
Oats for grain												
Summerfallow	317	302	290	21	19	18	45.1	47.4	51.4	14.3	14.3	14.9
Stubble	1,172	1,318	1,345	79	81	82	33.7	36.2	43.2	39.5	47.7	58.1
Total	1,489	1,620	1,635	100	100	100	36.1	38.3	44.6	53.8	62.0	73.0
Barley												
Summerfallow	400	225	172	39	39	35	31.5	35.6	37.8	12.6	8.0	6.5
Stubble	614	359	325	61	61	65	22.1	22.3	29.2	13.6	8.0	9.5
Total	1,014	584	497	100	100	100	25.8	27.4	32.2	26.2	16.0	16.0
Flaxseed												
Summerfallow	188	189	211	29	23	21	10.6	13.3	10.9	2.0	2.5	2.3
Stubble	462	631	773	71	77	79	7.8	10.8	9.1	3.6	6.8	7.0
Total	650	820	984	100	100	100	8.6	11.3	9.5	5.6	9.3	9.3
Rapeseed												
Summerfallow	18	26	35	69	58	50	15.0	19.6	18.6	0.27	0.51	0.65
Stubble	8	19	35	31	42	50	12.5	13.2	14.7	0.10	0.25	0.52
Total	26	45	70	100	100	100	14.2	16.9	16.7	0.37	0.76	1.17

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1964, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average	1963	1964	Average	1963	1964	Average	1963	1964	Average	1963	1964
	1958- 1962			1958- 1962			1958- 1962			1958- 1962		
	'000 acres			per cent			bushels			million bushels		
SASKATCHEWAN												
Wheat												
Summerfallow	12,836	14,820	15,318	81	83	80	17.5	29.0	19.4	224.8	429.2	297.2
Stubble	3,018	3,090	3,882	19	17	20	10.6	20.6	13.1	32.0	63.8	50.8
Total	15,854	17,910	19,200	100	100	100	16.2	27.5	18.1	256.8	493.0	348.0
Oats for grain												
Summerfallow	854	846	489	40	38	33	38.5	63.7	42.9	32.9	53.8	21.0
Stubble	1,282	1,370	980	60	62	67	26.4	46.8	33.7	33.9	64.2	33.0
Total	2,136	2,216	1,469	100	100	100	31.3	53.2	36.8	66.8	118.0	54.0
Barley												
Summerfallow	1,359	937	606	54	49	43	26.9	46.6	28.9	36.6	43.6	17.5
Stubble	1,176	993	794	46	51	57	18.2	34.6	20.8	21.4	34.4	16.5
Total	2,535	1,930	1,400	100	100	100	22.9	40.4	24.3	58.0	78.0	34.0
Flaxseed												
Summerfallow	655	299	271	68	59	52	8.5	16.1	10.0	5.6	4.8	2.7
Stubble	311	207	250	32	41	48	5.5	12.1	7.2	1.7	2.5	1.8
Total	966	506	521	100	100	100	7.6	14.4	8.6	7.3	7.3	4.5
Rapeseed												
Summerfallow	280	149	184	78	71	70	15.5	21.2	17.5	4.34	3.16	3.22
Stubble	78	61	78	22	29	30	10.0	14.4	12.6	0.78	0.88	0.98
Total	358	210	262	100	100	100	14.3	19.2	16.0	5.12	4.04	4.20

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1964, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average	1963	1964	Average	1963	1964	Average	1963	1964	Average	1963	1964
	1958- 1962			1958- 1962			1958- 1962			1958- 1962		
	'000 acres			per cent			bushels			million bushels		
<u>ALBERTA</u>												
<u>Wheat</u>												
Summerfallow	4,369	4,580	4,845	81	77	75	20.6	27.2	24.6	90.0	125.0	119.0
Stubble	1,039	1,353	1,650	19	23	25	13.3	17.9	15.8	13.8	24.0	26.0
Total	5,408	5,933	6,495	100	100	100	19.2	25.1	22.3	103.8	149.0	145.0
<u>Oats for grain</u>												
Summerfallow	955	878	576	40	36	30	47.2	62.3	53.5	45.1	54.8	30.8
Stubble	1,430	1,546	1,374	60	64	70	34.1	44.8	35.1	48.7	69.2	48.2
Total	2,385	2,424	1,950	100	100	100	39.3	51.2	40.5	93.8	124.0	79.0
<u>Barley</u>												
Summerfallow	1,490	1,377	1,144	46	40	34	35.4	43.7	41.6	52.7	60.3	47.6
Stubble	1,749	2,031	2,176	54	60	66	23.6	28.9	27.3	41.3	58.7	59.4
Total	3,239	3,408	3,320	100	100	100	29.0	34.9	32.2	94.0	119.0	107.0
<u>Flaxseed</u>												
Summerfallow	399	222	234	83	73	67	11.3	13.0	13.2	4.5	2.9	3.1
Stubble	82	81	116	17	27	33	8.5	10.0	8.6	0.7	0.8	1.0
Total	481	303	350	100	100	100	10.8	12.2	11.7	5.2	3.7	4.1
<u>Rapeseed</u>												
Summerfallow	112	142	204	73	64	55	17.8	19.4	18.1	1.99	2.75	3.70
Stubble	41	81	164	27	36	45	10.2	10.0	12.2	0.42	0.81	2.00
Total	153	223	368	100	100	100	15.8	16.0	15.5	2.41	3.56	5.70

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