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Field Crop Reporting Series - No. 1

SUMMERFALLOW AND STUBBLE, ACREAGE AND YIELD OF SPECIFIED CROPSPRAIRIE PROVINCES

Wheat sown on summerfallow land in the Prairie Provinces in 1967 averaged 21.3 bushels per acre, compared with an average yield of 15.0 bushels for that sown on stubble land. In 1966 summerfallow wheat averaged 29.8 bushels, while wheat sown on stubble lands averaged 21.7 bushels per acre. For other major field crops, the average yields in 1967, in bushels per acre, obtained from summerfallow with stubble yields in brackets, were as follows: oats for grain, 46.1 (36.3); barley, 38.0 (27.3); flaxseed, 11.6 (8.1); and rapeseed, 18.5 (11.3). The percentages of these crops grown on summerfallow in 1967 in the Prairie Provinces, with percentages sown on stubble in brackets, are as follows: wheat, 70 (30); oats for grain 21 (79); barley, 28 (72); flaxseed, 27 (73); and rapeseed, 56 (44).

The proportion of each crop, included in this report, sown on summerfallowed land in the Prairie Provinces in 1967 declined compared with the previous year and the five-year average. However the decline in the percentage of acreage seeded on summerfallow was larger for barley, oats for grain and flaxseed than for wheat and rapeseed when the 1961 - 1965 average is compared to 1967. For example, during the 1961 - 1965 period some 43 per cent of the barley was sown on summerfallow and in 1967 28 per cent, while the comparable proportions for wheat were 80 and 70 per cent respectively.

Stubble yields as a per cent of those obtained from summerfallowed lands for the Prairie Provinces in 1967 were lower for all crops, except for oats for grain, than was the case during the 1961-65 period. These percentages with the 1966 and 1961-65 average in brackets respectively are: wheat, 70 (73,71); oats for grain, 79 (72,77); barley, 72 (70,73); flaxseed, 70 (60,83); and rapeseed, 61 (62,65). In terms of actual bushels the spread between stubble and summerfallow yields is wider this year compared with the five year average except for oats for grain.

Estimates in this report are based on returns from farmer and elevator agent correspondents reporting in December 1967. This is the tenth 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. Also included in this report are intercensal revisions to this series for the years 1962, 1963, 1964, 1965 and 1966.

Prepared in the Crops Section, Agriculture Division

5502-508.1

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1967, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average 1961- 1965		1966	Average 1961- 1965		1966	Average 1961- 1965		1966	Average 1961- 1965		1967
	'000 acres			per cent			bushels			million bushels		
<u>PRAIRIE PROVINCES</u>												
<u>Wheat</u>												
Summerfallow	21,624	21,534	20,671	89	74	70	21.4	29.8	21.3	462.1	641.7	440.2
Stubble	5,323	7,632	8,899	20	26	30	15.3	21.7	15.0	81.7	165.3	133.8
Total	26,947	29,166	29,570	100	100	100	20.2	27.7	19.4	543.8	807.0	574.0
<u>Oats for grain</u>												
Summerfallow	1,898	1,215	1,050	32	22	21	49.9	60.6	46.1	94.7	73.6	48.4
Stubble	3,949	4,235	4,040	68	78	79	38.5	43.5	36.3	151.9	184.4	146.6
Total	5,847	5,450	5,090	100	100	100	42.2	47.3	38.3	246.6	258.0	195.0
<u>Barley</u>												
Summerfallow	2,327	2,374	2,122	43	34	28	36.2	50.5	38.0	84.3	119.9	80.7
Stubble	3,141	4,636	5,478	57	66	72	26.4	35.2	27.3	82.9	163.1	149.3
Total	5,468	7,010	7,600	100	100	100	30.6	40.4	30.3	167.2	283.0	230.0
<u>Flaxseed</u>												
Summerfallow	835	562	292	45	30	27	11.6	15.8	11.6	9.7	8.9	3.4
Stubble	1,016	1,321	790	55	70	73	9.6	9.5	8.1	9.8	12.6	6.4
Total	1,851	1,883	1,082	100	100	100	10.5	11.4	9.1	19.5	21.5	9.8
<u>Rapeseed</u>												
Summerfallow	488	876	965	64	57	56	18.5	20.2	18.5	9.03	17.67	17.90
Stubble	269	649	761	36	43	44	12.0	12.5	11.3	3.22	8.13	8.60
Total	757	1,525	1,726	100	100	100	16.2	16.9	15.4	12.25	25.80	26.50

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1967, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre		Production			
	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967
	'000 acres			per cent			bushels			million bushels		
<u>MANITOBA</u>												
<u>Wheat</u>												
Summerfallow	2,363	2,136	2,103	75	66	60	22.6	27.0	28.7	53.5	57.7	60.3
Stubble	784	1,119	1,417	25	34	40	18.2	19.0	21.0	14.3	21.3	29.7
Total	3,147	3,255	3,520	100	100	100	21.5	24.3	25.6	67.8	79.0	90.0
<u>Oats for grain</u>												
Summerfallow	311	154	172	20	10	11	47.9	52.6	51.2	14.9	8.1	8.8
Stubble	1,264	1,376	1,428	80	90	89	39.2	40.6	40.1	49.5	55.9	57.2
Total	1,575	1,530	1,600	100	100	100	40.9	41.8	41.2	64.4	64.0	66.0
<u>Barley</u>												
Summerfallow	226	282	225	38	32	23	32.7	41.1	41.3	7.4	11.6	9.3
Stubble	367	593	745	62	68	77	25.6	27.7	31.8	9.4	16.4	23.7
Total	593	875	970	100	100	100	28.3	32.0	34.0	16.8	28.0	33.0
<u>Flaxseed</u>												
Summerfallow	219	145	82	24	13	11	11.0	11.7	12.2	2.6	1.7	1.0
Stubble	703	962	636	76	87	89	10.0	8.6	8.2	7.0	8.3	5.2
Total	922	1,107	718	100	100	100	10.4	9.0	8.6	9.6	10.0	6.2
<u>Rapeseed</u>												
Summerfallow	34	53	57	51	31	32	18.5	17.0	18.6	0.63	0.90	1.06
Stubble	33	117	119	49	69	68	14.5	10.3	14.6	0.48	1.20	1.74
Total	67	170	176	100	100	100	16.6	12.4	15.9	1.11	2.10	2.80

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1967, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967	Average 1961- 1965	1966	1967
	'000 acres			per cent			bushels			million bushels		
<u>SASKATCHEWAN</u>												
<u>Wheat</u>												
Summerfallow	14,576	14,730	14,080	82	76	72	20.6	29.5	18.9	300.0	434.1	266.8
Stubble	3,240	4,675	5,590	18	24	28	14.3	22.0	12.9	46.4	102.9	72.2
Total	17,816	19,405	19,670	100	100	100	19.4	27.7	17.2	346.4	537.0	339.0
<u>Oats for grain</u>												
Summerfallow	773	504	440	39	27	29	47.1	60.5	39.3	36.4	30.5	17.3
Stubble	1,189	1,334	1,090	61	73	71	35.8	46.9	29.1	42.6	62.5	31.7
Total	1,962	1,838	1,530	100	100	100	40.3	50.6	32.0	79.0	93.0	49.0
<u>Barley</u>												
Summerfallow	842	873	821	49	39	35	32.7	50.4	33.5	27.5	44.0	27.5
Stubble	868	1,382	1,529	51	61	65	24.8	37.6	23.2	21.5	52.0	35.5
Total	1,710	2,255	2,350	100	100	100	28.7	42.6	26.8	49.0	96.0	63.0
<u>Flaxseed</u>												
Summerfallow	359	211	97	62	49	50	10.9	16.1	10.3	3.9	3.4	1.0
Stubble	224	218	96	38	51	50	8.5	11.9	6.2	1.9	2.6	0.6
Total	583	429	193	100	100	100	9.9	14.0	8.3	5.8	6.0	1.6
<u>Rapeseed</u>												
Summerfallow	236	452	422	73	62	63	18.9	19.9	19.9	4.47	9.00	8.40
Stubble	86	279	253	27	38	37	13.7	13.3	12.3	1.18	3.70	3.10
Total	322	731	675	100	100	100	17.5	17.4	17.0	5.65	12.70	11.50

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1967, with Comparisons
Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production		
	Average 1961-1965			Average 1961-1965			Average 1961-1965			Average 1961-1965		
	'000 acres			per cent			bushels			million bushels		
<u>ALBERTA</u>												
<u>Wheat</u>												
Summerfallow	4,685	4,668	4,485	78	72	70	23.2	32.1	25.2	108.6	149.9	113.1
Stubble	1,299	1,038	1,892	22	28	30	16.2	22.4	16.9	21.0	41.1	31.9
Total	5,984	6,506	6,380	100	100	100	21.7	29.4	22.7	129.6	191.0	145.0
<u>Oats for grain</u>												
Summerfallow	814	557	438	35	27	22	53.3	62.8	50.9	43.4	35.0	22.3
Stubble	1,496	1,525	1,522	65	73	78	40.0	43.3	37.9	59.8	66.0	57.7
Total	2,310	2,082	1,960	100	100	100	44.7	48.5	40.8	103.2	101.0	80.0
<u>Barley</u>												
Summerfallow	1,259	1,219	1,076	40	31	25	39.2	52.7	40.8	49.3	64.3	43.9
Stubble	1,906	2,661	3,204	60	69	75	27.3	35.6	28.1	52.1	94.7	90.1
Total	3,165	3,880	4,280	100	100	100	32.0	41.0	31.3	101.4	159.0	134.0
<u>Flaxseed</u>												
Summerfallow	257	206	113	74	59	66	12.5	18.4	12.4	3.2	3.8	1.4
Stubble	89	141	58	26	41	34	10.1	12.1	10.3	0.9	1.7	0.6
Total	346	347	171	100	100	100	11.8	15.9	11.7	4.1	5.5	2.0
<u>Rapeseed</u>												
Summerfallow	218	371	486	59	59	56	18.0	20.9	17.4	3.93	7.77	8.44
Stubble	150	253	389	41	41	44	10.4	12.8	9.7	1.56	3.23	3.76
Total	368	624	875	100	100	100	14.9	17.6	13.9	5.49	11.00	12.20

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1962-1965 Specified Crops
Intercensal Revisions

Crop	Seeded area				Distribution				Average yield per seeded acre				Production				
	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965	
	'000 acres				per cent				bushels				million bushels				
					PRAIRIE PROVINCES												
<u>Wheat</u>																	
Summerfallow	21,744	21,921	22,742	21,296	83	81	78	77	21.9	27.7	21.3	23.9	476.1	606.3	484.5	509.9	
Stubble	4,493	5,075	6,338	6,494	17	19	22	23	15.6	19.1	14.8	18.8	69.9	96.7	93.5	122.1	
Total	26,237	26,996	29,080	27,790	100	100	100	100	20.8	28.0	19.9	22.7	546.0	703.0	578.0	632.0	
<u>Oats for grain</u>																	
Summerfallow	2,664	2,051	1,363	1,472	37	33	27	26	52.0	60.6	49.2	57.3	138.6	124.2	67.1	84.4	
Stubble	4,488	4,209	3,691	4,173	63	67	73	74	40.9	42.7	37.6	45.0	183.4	179.8	138.9	187.6	
Total	7,152	6,260	5,054	5,645	100	100	100	100	45.0	48.6	40.8	48.2	322.0	304.0	206.0	272.0	
<u>Barley</u>																	
Summerfallow	2,356	2,577	1,942	2,105	46	44	37	37	35.9	43.9	37.2	43.1	84.5	113.2	72.3	90.8	
Stubble	2,741	3,345	3,275	3,636	54	56	63	63	26.8	29.8	25.9	30.6	73.5	99.8	84.7	111.2	
Total	5,097	5,922	5,217	5,741	100	100	100	100	31.0	36.0	30.1	35.2	158.0	213.0	157.0	202.0	
<u>Flixseed</u>																	
Summerfallow	736	716	746	764	53	44	39	34	11.5	14.4	11.7	14.5	8.5	10.3	8.7	11.1	
Stubble	660	913	1,170	1,501	47	56	61	66	10.3	11.0	9.1	11.5	6.8	10.0	10.7	17.3	
Total	1,396	1,629	1,916	2,265	100	100	100	100	11.0	12.5	10.1	12.5	15.3	20.3	19.4	28.4	
<u>Rapeseed</u>																	
Summerfallow	250	321	481	813	67	67	61	57	18.0	20.1	18.9	18.8	4.51	6.45	9.11	15.29	
Stubble	121	157	310	622	33	33	39	43	11.2	12.2	13.3	11.8	1.35	1.91	4.12	7.31	
Total	371	478	791	1,435	100	100	100	100	15.8	17.5	16.7	15.7	5.86	8.36	13.23	22.60	

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1962-1965 Specified Crops
Intercensal Revisions

Crop	Seeded area				Distribution			Average yield per seeded acre			Production					
	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965
	'000 acres				per cent			bushels			million bushels					
<u>MANITOBA</u>																
<u>Wheat</u>																
Summerfallow	2,306	2,393	2,508	2,139	76	76	74	66	27.6	20.8	26.7	26.3	63.7	49.7	67.0	56.3
Stubble	736	760	877	1,101	24	24	26	34	22.1	14.9	20.5	20.6	16.3	11.3	18.0	22.7
Total	3,042	3,153	3,385	3,240	100	100	100	100	26.3	19.3	25.1	24.4	80.0	61.0	85.0	79.0
<u>Oats for grain</u>																
Summerfallow	425	302	288	220	24	19	18	14	58.4	47.4	51.4	57.3	24.8	14.3	14.8	12.6
Stubble	1,369	1,318	1,347	1,305	76	81	82	86	46.9	36.2	43.2	47.0	64.2	47.7	58.2	61.4
Total	1,794	1,620	1,635	1,525	100	100	100	100	49.6	38.3	44.6	48.5	89.0	62.0	73.0	74.0
<u>Barley</u>																
Summerfallow	240	225	171	188	38	39	34	31	39.2	35.6	37.4	43.1	9.4	8.0	6.4	8.1
Stubble	389	359	326	413	62	61	66	69	29.8	22.3	29.4	33.7	11.6	8.0	9.6	13.9
Total	629	584	497	601	100	100	100	100	33.4	27.4	32.2	36.6	21.0	16.0	16.0	22.0
<u>Flaxseed</u>																
Summerfallow	210	189	222	243	31	23	22	18	13.3	13.3	12.6	14.0	2.8	2.5	2.8	3.4
Stubble	457	631	803	1,107	69	77	78	82	10.9	10.8	9.7	11.6	5.0	6.8	7.8	12.8
Total	667	820	1,025	1,350	100	100	100	100	11.7	11.3	10.3	12.0	7.8	9.3	10.6	16.2
<u>Rapeseed</u>																
Summerfallow	19	26	41	60	59	58	49	41	18.9	19.6	19.5	19.3	0.36	0.51	0.80	1.16
Stubble	13	19	43	85	41	42	51	59	16.9	13.2	15.6	14.6	0.22	0.25	0.67	1.24
Total	32	45	84	145	100	100	100	100	18.0	16.9	17.5	16.6	0.58	0.76	1.47	2.40

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1962-1965 Specified Crops
Intercensal Revisions

Crop	Seeded area				Distribution				Average yield per seeded acre				Production			
	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965
	'000 acres				per cent				bushels				million bushels			
SASKATCHEWAN																
<u>Wheat</u>																
Summerfallow	14,687	14,820	15,291	14,704	84	83	80	79	21.5	29.0	19.4	22.6	315.8	429.2	296.8	332.4
Stubble	2,701	3,090	3,909	3,796	16	17	20	21	14.1	20.6	13.1	17.8	38.2	63.8	51.2	67.6
Total	17,388	17,910	19,200	18,500	100	100	100	100	20.4	27.5	18.1	21.6	354.0	493.0	348.0	400.0
<u>Oats for grain</u>																
Summerfallow	1,226	846	488	640	45	38	33	33	48.4	63.7	43.0	56.7	59.4	53.8	21.0	36.3
Stubble	1,486	1,370	981	1,280	55	62	67	67	34.1	46.8	33.6	45.1	50.6	64.2	33.0	57.7
Total	2,712	2,216	1,469	1,920	100	100	100	100	40.6	53.2	36.8	48.8	110.0	118.0	54.0	94.0
<u>Barley</u>																
Summerfallow	857	937	605	782	53	49	43	45	34.3	46.6	28.9	42.2	29.4	43.6	17.5	33.0
Stubble	772	993	795	968	47	51	57	55	24.1	34.6	20.8	33.1	18.6	34.4	16.5	32.0
Total	1,629	1,930	1,400	1,750	100	100	100	100	29.5	40.4	24.3	37.1	48.0	78.0	34.0	65.0
<u>Flaxseed</u>																
Summerfallow	253	299	271	287	65	59	52	51	11.5	16.1	10.0	14.6	2.9	4.8	2.7	4.2
Stubble	136	207	250	273	35	41	48	49	8.8	12.1	7.2	11.4	1.2	2.5	1.8	3.1
Total	389	506	521	560	100	100	100	100	10.5	14.4	8.6	13.0	4.1	7.3	4.5	7.3
<u>Rapeseed</u>																
Summerfallow	127	149	213	372	76	71	70	67	17.2	21.2	19.1	21.3	2.18	3.16	4.06	7.94
Stubble	40	61	90	183	24	29	30	33	11.0	14.4	13.8	15.1	0.44	0.88	1.24	2.76
Total	167	210	303	555	100	100	100	100	15.7	19.2	17.5	19.2	2.62	4.04	5.30	10.70

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1962-1965 Specified Crops
Intercensal Revisions

Crop	Seeded area				Distribution				Average yield per seeded acre				Production			
	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965	1962	1963	1964	1965
	'000 acres				per cent				bushels				million bushels			
<u>ALBERTA</u>																
<u>Wheat</u>																
Summerfallow	4,751	4,708	4,943	4,453	82	79	76	74	20.3	27.1	24.4	27.2	96.6	127.4	120.7	121.2
Stubble	1,056	1,225	1,552	1,597	18	21	24	26	14.6	17.6	15.7	19.9	15.4	21.6	24.3	31.8
Total	5,807	5,933	6,495	6,050	100	100	100	100	19.3	25.1	22.3	25.3	112.0	149.0	145.0	153.0
<u>Oats for grain</u>																
Summerfallow	1,013	903	587	612	38	37	30	28	53.7	62.1	53.3	58.0	54.4	56.1	31.3	35.5
Stubble	1,633	1,521	1,363	1,588	62	63	70	72	42.0	44.6	35.0	43.1	68.6	67.9	47.7	68.5
Total	2,646	2,424	1,950	2,200	100	100	100	100	46.5	51.2	40.5	47.3	123.0	124.0	79.0	104.0
<u>Barley</u>																
Summerfallow	1,259	1,415	1,166	1,135	44	42	35	33	36.3	43.5	41.5	43.8	45.7	61.6	48.4	49.7
Stubble	1,580	1,993	2,154	2,255	56	58	65	67	27.4	28.8	27.2	29.0	43.3	57.4	58.6	65.3
Total	2,839	3,408	3,320	3,390	100	100	100	100	31.3	34.9	32.2	33.9	89.0	119.0	107.0	115.0
<u>Flaxseed</u>																
Summerfallow	273	228	253	234	80	75	68	66	10.3	13.2	12.6	15.0	2.8	3.0	3.2	3.5
Stubble	67	75	117	121	20	25	32	34	9.0	9.3	9.4	11.6	0.6	0.7	1.1	1.4
Total	340	303	370	355	100	100	100	100	10.0	12.2	11.6	13.8	3.4	3.7	4.3	4.9
<u>Rapeseed</u>																
Summerfallow	104	146	227	381	60	65	56	52	18.9	19.0	18.7	16.2	1.97	2.78	4.25	6.19
Stubble	68	77	177	354	40	35	44	48	10.1	10.1	12.5	9.4	0.69	0.78	2.21	3.31
Total	172	223	404	735	100	100	100	100	15.5	16.0	16.0	12.9	2.66	3.56	6.46	9.50

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