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SUMMERFALLOW AND STUBBLE, ACREAGE AND YIELD OF SPECIFIED CROPS

PRAIRIE PROVINCES

Wheat sown on summerfallow land in the Prairie Provinces in 1970 averaged 26.5 bushels per acre, compared with an average yield of 19.7 bushels for that sown on stubble land. In 1969 summerfallow wheat averaged 29.1 bushels, while wheat sown on stubble lands averaged 20.3 bushels per acre. For other major field crops, the average yields in 1970, in bushels per acre, obtained from summerfallow with stubble yields in brackets, were as follows: oats for grain 61.6 (46.0) barley, 46.4 (34.1) flaxseed, 16.3 (10.3) and rapeseed, 18.9 (13.2). The percentages of these crops grown on summerfallow in 1970 in the Prairie Provinces, with percentages sown on stubble in brackets are as follows: wheat, 93 (7) oats for grain, 46 (54) barley, 57 (43) flaxseed, 71 (29) and rapeseed, 85 (15).

The proportion of each crop, included in this report, sown on summerfallowed land in the Prairie Provinces in 1970 increased compared with the previous year and the five year (1964-68) average. The increase in the per cent distribution of acreage seeded on summerfallow in 1970 compared with 1969 was larger for oats for grain, flaxseed and rapeseed than for other crops.

Stubble yields as a per cent of yields obtained from summerfallowed lands for the Prairie Provinces in 1970 compared with the five year averages were higher for wheat, barley and rapeseed and lower for oats for grain and flaxseed. These percentages with the 1969 and the five year average in brackets respectively are: wheat, 74 (70,72) oats for grain, 75 (73,77) barley, 73 (71,71) flaxseed, 63 (64,73) and rapeseed, 70 (68,64). In terms of actual bushels the spread between stubble and summerfallow yields is larger this year compared with the five year average except in the case of barley and rapeseed.

Estimates in this report are based on returns from farmer and elevator agent correspondents reporting in December 1970. This survey is 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.

Agriculture Division,
Crops Section

5502-508

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1970, with Comparisons Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production			
	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	
	'000 acres			per cent			bushels			million bushels			
<u>PRAIRIE PROVINCES</u>													
<u>Wheat</u>													
Summerfallow ..	21,428	19,335	11,117	74	79	93	24.0	29.1	26.5	514.3	562.3	295.1	
Stubble	7,465	5,065	883	26	21	7	17.4	20.3	19.7	129.7	102.7	17.4	
Total	28,893	24,400	12,000	100	100	100	22.3	27.3	26.0	644.0	665.0	312.5	
<u>Oats for grain</u>													
Summerfallow ..	1,264	1,470	2,440	24	26	46	54.1	61.6	61.6	68.4	90.5	150.4	
Stubble	4,052	4,160	2,820	76	74	54	41.4	45.1	46.0	167.6	187.5	129.6	
Total	5,316	5,630	5,260	100	100	100	44.4	49.4	53.2	236.0	278.0	280.0	
<u>Barley</u>													
Summerfallow ..	2,228	3,391	5,455	33	38	57	43.0	48.3	46.4	95.7	163.9	253.2	
Stubble	4,551	5,609	4,045	67	62	43	30.5	34.1	34.1	138.9	191.1	137.8	
Total	6,779	9,000	9,500	100	100	100	34.6	39.4	41.2	234.6	355.0	391.0	
<u>Flaxseed</u>													
Summerfallow ..	577	1,026	2,380	34	44	71	13.9	14.7	16.3	8.0	15.1	38.7	
Stubble	1,136	1,294	970	66	56	29	10.1	9.4	10.3	11.5	12.2	10.0	
Total	1,713	2,320	3,350	100	100	100	11.4	11.8	14.5	19.5	27.3	48.7	
<u>Rapeseed</u>													
Summerfallow ..	745	1,314	3,350	58	65	85	19.4	18.7	18.9	14.46	24.55	63.41	
Stubble	540	698	600	42	35	15	12.4	12.7	13.2	6.69	8.85	7.89	
Total	1,285	2,012	3,950	100	100	100	16.5	16.6	18.1	21.15	33.40	71.30	

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1970, with Comparisons Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production			
	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	
	'000 acres			per cent			bushels			million bushels			
<u>MANITOBA</u>													
<u>Wheat</u>													
Summerfallow ..	2,187	1,803	1,134	65	72	81	27.6	28.2	22.8	60.4	50.9	25.9	
Stubble	1,173	697	266	35	28	19	20.8	18.8	17.3	24.4	13.1	4.6	
Total	3,360	2,500	1,400	100	100	100	25.2	25.6	21.8	84.8	64.0	30.5	
<u>Oats for grain</u>													
Summerfallow ..	198	185	245	13	12	19	54.5	57.8	49.8	10.8	10.7	12.2	
Stubble	1,376	1,345	1,015	87	88	81	44.2	43.3	40.2	60.8	58.3	40.8	
Total	1,574	1,530	1,260	100	100	100	45.5	45.1	42.1	71.6	69.0	53.0	
<u>Barley</u>													
Summerfallow ..	228	422	733	28	35	49	41.7	44.5	38.9	9.5	18.8	28.5	
Stubble	594	778	767	72	65	51	31.8	29.8	29.3	18.9	23.2	22.5	
Total	822	1,200	1,500	100	100	100	34.5	35.0	34.0	28.4	42.0	51.0	
<u>Flaxseed</u>													
Summerfallow ..	162	187	371	16	17	32	13.0	11.8	13.2	2.1	2.2	4.9	
Stubble	830	913	779	84	83	68	10.1	8.8	9.8	8.4	8.0	7.6	
Total	992	1,100	1,150	100	100	100	10.6	9.3	10.9	10.5	10.2	12.5	
<u>Rapeseed</u>													
Summerfallow ..	46	83	217	36	42	62	19.1	21.1	20.0	0.88	1.75	4.33	
Stubble	81	113	133	64	58	38	14.3	15.5	14.8	1.16	1.75	1.97	
Total	127	196	350	100	100	100	16.1	17.9	18.0	2.04	3.50	6.30	

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1970, with Comparisons Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production			
	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	
	'000 acres			per cent			bushels			million bushels			
<u>SASKATCHEWAN</u>													
<u>Wheat</u>													
Summerfallow	14,651	13,583	7,686	76	82	96	22.4	29.4	26.5	327.6	398.7	203.7	
Stubble	4,504	3,017	314	24	18	4	15.9	20.6	20.1	71.6	62.3	6.3	
Total	19,155	16,600	8,000	100	100	100	20.8	27.8	26.2	399.2	461.0	210.0	
<u>Oats from grain</u>													
Summerfallow	528	726	1,269	31	35	65	50.4	62.1	62.0	26.6	45.1	78.7	
Stubble	1,183	1,374	681	69	65	35	39.1	45.1	46.0	46.2	61.9	31.3	
Total	1,711	2,100	1,950	100	100	100	42.5	51.0	56.4	72.8	107.0	110.0	
<u>Barley</u>													
Summerfallow	827	1,348	2,519	40	50	76	39.1	47.3	46.1	32.3	63.7	116.1	
Stubble	1,226	1,352	781	60	50	24	28.8	33.5	33.2	35.3	45.3	25.9	
Total	2,053	2,700	3,300	100	100	100	32.9	40.4	43.0	67.6	109.0	142.0	
<u>Flaxseed</u>													
Summerfallow	218	516	1,373	52	67	92	13.3	15.5	16.9	2.9	8.0	23.2	
Stubble	202	254	127	48	33	8	9.4	11.0	12.6	1.9	2.8	1.6	
Total	420	770	1,500	100	100	100	11.4	14.0	16.5	4.8	10.8	24.8	
<u>Rapeseed</u>													
Summerfallow	355	741	1,853	66	74	93	20.6	19.9	18.5	7.30	14.72	34.19	
Stubble	185	259	147	34	26	7	13.7	13.4	12.3	2.54	3.48	1.81	
Total	540	1,000	2,000	100	100	100	18.2	18.2	18.0	9.84	18.20	36.00	

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1970, with Comparisons Specified Crops

Crop	Seeded area			Distribution			Average yield per seeded acre			Production																
	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970	Average 1964- 1968		1969	1970														
	'000 acres			per cent			bushels			million bushels																
<u>ALBERTA</u>																										
<u>Wheat</u>																										
Summerfallow ..	4,590	3,949	2,297	72	75	88	27.5	28.5	28.5	126.3	112.7	65.5														
Stubble	1,788	1,351	303	28	25	12	18.8	20.2	21.5	33.7	27.3	6.5														
Total	6,378	5,300	2,600	100	100	100	25.1	26.4	27.7	160.0	140.0	72.0														
<u>Oats for grain</u>																										
Summerfallow ..	538	559	926	26	28	45	57.6	62.1	64.3	31.0	34.7	59.5														
Stubble	1,493	1,441	1,124	74	72	55	40.6	46.7	51.2	60.6	67.3	57.5														
Total	2,031	2,000	2,050	100	100	100	45.1	51.0	57.1	91.6	102.0	117.0														
<u>Barley</u>																										
Summerfallow ..	1,173	1,621	2,203	30	32	47	46.0	50.2	49.3	53.9	81.4	108.6														
Stubble	2,731	3,479	2,497	70	68	53	31.0	35.2	35.8	84.7	122.6	89.4														
Total	3,904	5,100	4,700	100	100	100	35.5	40.0	42.1	138.6	204.0	198.0														
<u>Flaxseed</u>																										
Summerfallow ..	197	323	636	65	72	91	15.2	15.2	16.7	3.0	4.9	10.6														
Stubble	104	127	64	35	28	9	11.5	11.0	12.5	1.2	1.4	0.8														
Total	301	450	700	100	100	100	14.0	14.0	16.3	4.2	6.3	11.4														
<u>Rapeseed</u>																										
Summerfallow ..	344	490	1,280	56	60	80	18.3	16.5	19.4	6.28	8.08	24.89														
Stubble	274	326	320	44	40	20	10.9	11.1	12.8	2.99	3.62	4.11														
Total	618	816	1,600	100	100	100	15.0	14.3	18.1	9.27	11.70	29.00														

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