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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 1969 averaged 29.1 bushels per acre, compared with an average yield of 20.3 bushels for that sown on stubble land. In 1968 summerfallow wheat averaged 23.7 bushels, while wheat sown on stubble lands averaged 16.8 bushels per acre. For other major field crops, the average yields in 1969, in bushels per acre, obtained from summerfallow with stubble yields in brackets, were as follows: oats for grain 61.5 (45.1) barley, 48.4 (34.1) flaxseed, 15.5 (10.2) and rapeseed, 20.8 (14.1). The percentages of these crops grown on summerfallow in 1969 in the Prairie Provinces, with percentages sown on stubble in brackets are as follows: wheat, 79 (21) oats for grain, 26 (74) barley, 38 (62) flaxseed, 45 (55) and rapeseed, 65 (35).

The proportion of each crop, included in this report, sown on summerfallowed land in the Prairie Provinces in 1969 increased compared with the previous year and the proportions were higher than the five year 1963-67 average, except for oats for grain which was the same. The increase in the per cent distribution of acreage seeded on summerfallow in 1969 compared with 1968 was larger for wheat, barley and flaxseed than for other crops.

Stubble yields as a per cent of yields obtained from summerfallowed lands for the Prairie Provinces in 1969 compared with the five year averages were lower for wheat, oats and flaxseed and higher for rapeseed with barley remaining unchanged. These percentages with the 1968 and the five year average in brackets respectively are: wheat, 70 (71,71) oats for grain, 73 (78,74) barley, 70 (73,70) flaxseed, 66 (82,73) and rapeseed, 68 (71,62). 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 rapeseed where the difference in yield was smaller.

Estimates in this report are based on returns from farmer and elevator agent correspondents reporting in December 1969. This is the twelfth 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.

Agriculture Division, Crops Section

602-508

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1969, with Comparisons
Specified Crops

| Crop | Seeded area | | | Distribution | | | Average yield per seeded acre | | | Production | | | |
|--------------------------|--------------------------|--------|--------|--------------|--------------------------|-----|----------------------------------|------|--------------------------|-----------------|-------|-------|--|
| | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | |
| | '000 acres | | | per cent | | | bushels | | | million bushels | | | |
| <u>PRAIRIE PROVINCES</u> | | | | | | | | | | | | | |
| <u>Wheat</u> | | | | | | | | | | | | | |
| Summerfallow .. | 21,645 | 20,835 | 19,294 | 76 | 72 | 79 | 24.8 | 23.7 | 29.1 | 536.8 | 493.9 | 561.5 | |
| Stubble | 6,874 | 8,025 | 5,106 | 24 | 28 | 21 | 17.7 | 16.8 | 20.3 | 122.0 | 135.1 | 103.5 | |
| Total | 28,519 | 28,860 | 24,400 | 100 | 100 | 100 | 23.1 | 21.8 | 27.3 | 658.8 | 629.0 | 665.0 | |
| <u>Oats for grain</u> | | | | | | | | | | | | | |
| Summerfallow .. | 1,432 | 1,217 | 1,464 | 26 | 23 | 26 | 55.6 | 56.2 | 61.5 | 79.6 | 68.4 | 90.1 | |
| Stubble | 4,069 | 4,123 | 4,166 | 74 | 77 | 74 | 41.1 | 43.8 | 45.1 | 167.4 | 180.6 | 187.9 | |
| Total | 5,501 | 5,340 | 5,630 | 100 | 100 | 100 | 44.9 | 46.6 | 49.4 | 247.0 | 249.0 | 278.0 | |
| <u>Barley</u> | | | | | | | | | | | | | |
| Summerfallow .. | 2,226 | 2,589 | 3,375 | 35 | 31 | 38 | 42.9 | 44.4 | 48.4 | 95.4 | 115.0 | 163.2 | |
| Stubble | 4,073 | 5,741 | 5,625 | 65 | 69 | 62 | 29.9 | 32.4 | 34.1 | 121.6 | 186.0 | 191.8 | |
| Total | 6,299 | 8,330 | 9,000 | 100 | 100 | 100 | 34.4 | 36.1 | 39.4 | 217.0 | 301.0 | 355.0 | |
| <u>Flaxseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 611 | 541 | 1,093 | 35 | 36 | 45 | 13.7 | 14.6 | 15.5 | 8.4 | 7.9 | 16.9 | |
| Stubble | 1,127 | 961 | 1,327 | 65 | 64 | 55 | 10.0 | 11.9 | 10.2 | 11.3 | 11.4 | 13.6 | |
| Total | 1,738 | 1,502 | 2,420 | 100 | 100 | 100 | 11.3 | 12.8 | 12.6 | 19.7 | 19.3 | 30.5 | |
| <u>Rapeseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 680 | 644 | 1,310 | 58 | 61 | 65 | 19.2 | 20.8 | 20.8 | 13.07 | 13.40 | 27.21 | |
| Stubble | 489 | 408 | 702 | 42 | 39 | 35 | 12.0 | 14.7 | 14.1 | 5.88 | 6.00 | 9.89 | |
| Total | 1,169 | 1,052 | 2,012 | 100 | 100 | 100 | 16.2 | 18.4 | 18.4 | 18.95 | 19.40 | 37.10 | |

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1969, with Comparisons
Specified Crops

| Crop | Seeded area | | | Distribution | | | Average yield per seeded acre | | | Production | | | |
|-----------------------|--------------------------|-------|-------|--------------|--------------------------|-----|-------------------------------|------|--------------------------|-----------------|------|------|--|
| | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | |
| | '000 acres | | | per cent | | | bushels | | | million bushels | | | |
| <u>MANITOBA</u> | | | | | | | | | | | | | |
| <u>Wheat</u> | | | | | | | | | | | | | |
| Summerfallow .. | 2,258 | 2,039 | 1,803 | 68 | 60 | 72 | 25.8 | 29.5 | 28.2 | 58.3 | 60.2 | 50.9 | |
| Stubble | 1,052 | 1,361 | 697 | 32 | 40 | 28 | 19.5 | 22.6 | 18.8 | 20.5 | 30.8 | 13.1 | |
| Total | 3,310 | 3,400 | 2,500 | 100 | 100 | 100 | 23.8 | 26.8 | 25.6 | 78.8 | 91.0 | 64.0 | |
| <u>Oats for grain</u> | | | | | | | | | | | | | |
| Summerfallow .. | 228 | 156 | 185 | 14 | 10 | 12 | 51.3 | 60.9 | 57.8 | 11.7 | 9.5 | 10.7 | |
| Stubble | 1,354 | 1,424 | 1,345 | 86 | 90 | 88 | 41.4 | 50.2 | 43.3 | 56.1 | 71.5 | 58.3 | |
| Total | 1,582 | 1,580 | 1,530 | 100 | 100 | 100 | 42.9 | 51.3 | 45.1 | 67.8 | 81.0 | 69.0 | |
| <u>Barley</u> | | | | | | | | | | | | | |
| Summerfallow .. | 219 | 273 | 422 | 31 | 23 | 35 | 39.7 | 44.0 | 44.5 | 8.7 | 12.0 | 18.8 | |
| Stubble | 487 | 897 | 778 | 69 | 77 | 65 | 29.4 | 34.6 | 29.8 | 14.3 | 31.0 | 23.2 | |
| Total | 706 | 1,170 | 1,200 | 100 | 100 | 100 | 32.6 | 36.8 | 35.0 | 23.0 | 43.0 | 42.0 | |
| <u>Flaxseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 175 | 124 | 187 | 18 | 15 | 17 | 13.1 | 14.5 | 12.8 | 2.3 | 1.8 | 2.4 | |
| Stubble | 817 | 696 | 913 | 82 | 85 | 83 | 9.9 | 12.4 | 9.6 | 8.1 | 8.6 | 8.8 | |
| Total | 992 | 820 | 1,100 | 100 | 100 | 100 | 10.5 | 12.7 | 10.2 | 10.4 | 10.4 | 11.2 | |
| <u>Rapeseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 45 | 28 | 83 | 38 | 31 | 42 | 18.9 | 23.6 | 21.1 | 0.85 | 0.66 | 1.75 | |
| Stubble | 72 | 63 | 113 | 62 | 69 | 58 | 13.3 | 19.7 | 15.5 | 0.96 | 1.24 | 1.75 | |
| Total | 117 | 91 | 196 | 100 | 100 | 100 | 15.5 | 20.9 | 17.9 | 1.81 | 1.90 | 3.50 | |

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1969, with Comparisons
Specified Crops

| Crop | Seeded area | | | Distribution | | | Average yield per seeded acre | | | Production | | | |
|-----------------------|--------------------------|--------|--------|--------------|--------------------------|------|----------------------------------|--------------------------|------|-----------------|--------------------------|-------|------|
| | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | 1968 | 1969 | Average 1963- 1967 | 1968 | 1969 | Average 1963- 1967 | 1968 | 1969 |
| | '000 acres | | | per cent | | | bushels | | | million bushels | | | |
| <u>SASKATCHEWAN</u> | | | | | | | | | | | | | |
| <u>Wheat</u> | | | | | | | | | | | | | |
| Summerfallow .. | 14,733 | 14,410 | 13,583 | 78 | 76 | 82 | 23.9 | 21.3 | 29.4 | 352.0 | 307.3 | 398.7 | |
| Stubble | 4,204 | 4,590 | 3,017 | 22 | 24 | 18 | 17.0 | 14.1 | 20.6 | 71.4 | 64.7 | 62.3 | |
| Total | 18,937 | 19,000 | 16,600 | 100 | 100 | 100 | 22.4 | 19.6 | 27.8 | 423.4 | 372.0 | 461.0 | |
| <u>Oats for grain</u> | | | | | | | | | | | | | |
| Summerfallow .. | 584 | 567 | 726 | 33 | 32 | 35 | 54.5 | 49.2 | 62.1 | 31.8 | 27.9 | 45.1 | |
| Stubble | 1,211 | 1,233 | 1,374 | 67 | 68 | 65 | 41.1 | 37.4 | 45.1 | 49.8 | 46.1 | 61.9 | |
| Total | 1,795 | 1,800 | 2,100 | 100 | 100 | 100 | 45.5 | 41.1 | 51.0 | 81.6 | 74.0 | 107.0 | |
| <u>Barley</u> | | | | | | | | | | | | | |
| Summerfallow .. | 804 | 1,051 | 1,348 | 42 | 42 | 50 | 41.2 | 37.8 | 47.3 | 33.1 | 39.7 | 63.7 | |
| Stubble | 1,133 | 1,459 | 1,352 | 58 | 58 | 50 | 30.1 | 27.6 | 33.5 | 34.1 | 40.3 | 45.3 | |
| Total | 1,937 | 2,510 | 2,700 | 100 | 100 | 100 | 34.7 | 31.9 | 40.4 | 67.2 | 80.0 | 109.0 | |
| <u>Flaxseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 233 | 223 | 516 | 53 | 56 | 67 | 13.7 | 13.5 | 16.3 | 3.2 | 3.0 | 8.4 | |
| Stubble | 1209 | 174 | 254 | 47 | 44 | 33 | 10.0 | 9.2 | 11.4 | 2.1 | 1.6 | 2.9 | |
| Total | 1442 | 397 | 770 | 100 | 100 | 100 | 12.0 | 11.6 | 14.7 | 5.3 | 4.6 | 11.3 | |
| <u>Rapeseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 313 | 363 | 741 | 65 | 71 | 74 | 20.2 | 22.1 | 21.4 | 6.33 | 8.01 | 15.85 | |
| Stubble | 167 | 148 | 259 | 35 | 29 | 26 | 13.5 | 15.5 | 14.5 | 2.26 | 2.29 | 3.75 | |
| Total | 480 | 511 | 1,000 | 100 | 100 | 100 | 17.9 | 20.2 | 19.6 | 8.59 | 10.30 | 19.60 | |

Acres Seeded and Yield per Acre on Summerfallow and Stubble, 1969, with Comparisons
Specified Crops

| Crop | Seeded area | | | Distribution | | | Average yield per seeded acre | | | Production | | | |
|-----------------------|--------------------------|-------|-------|--------------|--------------------------|-----|----------------------------------|------|--------------------------|-----------------|-------|-------|--|
| | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | Average 1963- 1967 | | 1968 | 1969 | |
| | '000 acres | | | per cent | | | bushels | | | million bushels | | | |
| <u>ALBERTA</u> | | | | | | | | | | | | | |
| <u>Wheat</u> | | | | | | | | | | | | | |
| Summerfallow .. | 4,654 | 4,386 | 3,908 | 74 | 68 | 74 | 27.2 | 28.8 | 28.6 | 126.5 | 126.4 | 111.9 | |
| Stubble | 1,618 | 2,074 | 1,392 | 26 | 32 | 26 | 18.6 | 19.1 | 20.2 | 30.1 | 39.6 | 28.1 | |
| Total | 6,272 | 6,460 | 5,300 | 100 | 100 | 100 | 25.0 | 25.7 | 26.4 | 156.6 | 166.0 | 140.0 | |
| <u>Oats for grain</u> | | | | | | | | | | | | | |
| Summerfallow .. | 620 | 494 | 553 | 29 | 25 | 28 | 58.2 | 62.8 | 62.0 | 36.1 | 31.0 | 34.3 | |
| Stubble | 1,504 | 1,466 | 1,447 | 71 | 75 | 72 | 40.9 | 43.0 | 46.8 | 61.5 | 63.0 | 67.7 | |
| Total | 2,124 | 1,960 | 2,000 | 100 | 100 | 100 | 46.0 | 48.0 | 51.0 | 97.6 | 94.0 | 102.0 | |
| <u>Barley</u> | | | | | | | | | | | | | |
| Summerfallow .. | 1,203 | 1,265 | 1,605 | 33 | 27 | 31 | 44.6 | 50.0 | 50.3 | 53.6 | 63.3 | 80.7 | |
| Stubble | 2,453 | 3,385 | 3,495 | 67 | 73 | 69 | 29.8 | 33.9 | 35.3 | 73.2 | 114.7 | 123.3 | |
| Total | 3,656 | 4,650 | 5,100 | 100 | 100 | 100 | 34.7 | 38.3 | 40.0 | 126.8 | 178.0 | 204.0 | |
| <u>Flaxseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 203 | 194 | 390 | 67 | 68 | 71 | 14.3 | 16.0 | 15.6 | 2.9 | 3.1 | 6.1 | |
| Stubble | 101 | 91 | 160 | 33 | 32 | 29 | 10.9 | 13.2 | 11.9 | 1.1 | 1.2 | 1.9 | |
| Total | 304 | 285 | 550 | 100 | 100 | 100 | 13.2 | 15.1 | 14.5 | 4.0 | 4.3 | 8.0 | |
| <u>Rapeseed</u> | | | | | | | | | | | | | |
| Summerfallow .. | 322 | 253 | 486 | 56 | 56 | 60 | 18.3 | 18.7 | 19.8 | 5.89 | 4.73 | 9.61 | |
| Stubble | 250 | 197 | 330 | 44 | 44 | 40 | 10.6 | 12.5 | 13.3 | 2.66 | 2.47 | 4.39 | |
| Total | 572 | 450 | 816 | 100 | 100 | 100 | 14.9 | 16.0 | 17.2 | 8.55 | 7.20 | 14.00 | |

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