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no. 9

1970

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# DOMINION BUREAU OF STATISTICS

OTTAWA - CANADA

Published by Authority of the Minister of Industry, Trade and Commerce

Price: \$4.00 for series of 20 Crop Reports

## Crop Reporting Series — No. 18

### TELEGRAPHIC CROP REPORT — CANADA

This is the last of the 1970 series of six telegraphic reports, issued by the Dominion Bureau of Statistics, covering crop conditions throughout Canada. Included in this report is the last of a series of eleven telegraphic reports on crop conditions in the Prairie Provinces. A selected list of crop correspondents chosen from the Federal and Provincial Departments of Agriculture, private crop observers and grain men supply the information on which these reports are based. The weather data included in this release are furnished by the Meteorological Division, Department of Transport.

### SUMMARY

Maritime Provinces. — Wet, cool weather has delayed harvesting throughout most of the Maritime Provinces. In Prince Edward Island harvesting is only 5 to 10 per cent completed and yield and quality will be lowered by the wet, cool weather. Potato harvesting has begun on many farms and yields appear about average. However, yields of later potatoes may run below average. In Nova Scotia the past month has been one of very wet weather which has caused fields to be soft and has held up harvesting of most crops. In the Annapolis Valley about one-third of the grain remains to be harvested. Much of this grain is down which further adds to the difficulty. Corn silage is ready to be harvested and good quality and yields are expected. Pastures throughout the province are extremely good. In New Brunswick our correspondent reports that about two weeks of dry weather is required to dry land in order that harvesting equipment may be used effectively. The grain is lodged badly in many fields. Reports from most areas estimate harvesting to be 25 to 30 per cent completed. Potatoes are being harvested for delivery to processing plants and harvest for storage will begin the first of next week. The heavy rainfall received over the past few weeks has assisted in maintaining good pasture growth. Corn harvesting is well advanced and very little frost damage has occurred this year.

Quebec. — Reports from the Eastern Townships indicate normal temperatures for this time of the year for most parts of the district. Some light frosts have occurred in Wolfe County. An estimated 50 per cent of the grain crop has been harvested. In the Saint Anne de La Pocatiere district frequent rain has delayed the ripening of crops and on the average only 40 per cent has been cut. Second growth on haylands, however, is normal in this district.

Agriculture Division  
Crops Section

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Ontario. — Silo filling is general throughout southern Ontario and has begun in most other areas of the province. Harvesting of tobacco is nearing completion while dry bean harvesting continues. All areas of the province except some northern counties, have completed harvesting of spring grains. Some seeding of winter wheat is finished while many fields are being prepared for seeding. Corn picking has already started in Essex and Kent. Crops and pastures in many areas of the province were very dry in August. Some corn fields were showing premature drying and ripening. However, rainfall during the second week in September relieved the situation. Most areas received substantial moisture supplies during that period.

Prairie Provinces. — Last week brought rain and low temperatures with frost to the Prairie Provinces and snow in parts of Saskatchewan and Alberta. As a result, farmers have been obliged to halt harvesting operations in nearly all districts. The consequences of the unfavourable weather vary from province to province. In Saskatchewan and Manitoba about one-half of the harvest has been completed. Lodging of crops is reported in some districts. Late-sown crops are threatened by frost damage. In Alberta progress was good prior to the rain and in some southern areas farmers had completed harvesting activity. In the central and northern districts, however, conditions are much the same as in Saskatchewan and Manitoba.

#### RUST REPORT FOR THE PRAIRIE PROVINCES

The Canada Department of Agriculture Research Station in Winnipeg reports that cereal rusts were prevalent in western Canada in 1970. The lateness of the crop in Manitoba and southeastern Saskatchewan contributed to their wide distribution and destructiveness. Wheat stem rust occurred on susceptible varieties in Manitoba and Saskatchewan but the resistance of the predominant variety, Manitou, prevented its development in most farm fields in the rust area. Moderate infections developed in small plantings of Pitic 62 that is susceptible to an uncommon race. Moderately severe infections of wheat leaf rust developed in Manitoba and Saskatchewan on common wheat. The resistance of Manitou prevented an early attack but its resistance diminished as the crop matured and infections of 60 per cent or more were common in fields in the dough stage. Heavier infections developed on susceptible Thatcher. Field observations indicated a loss of about 9 million bushels in Manitoba and Saskatchewan. The oat rusts caused damage in southern Manitoba and southeastern Saskatchewan. In this area stem rust infections exceeding 30 per cent and crown rust infections of 80 per cent were common in medium and late crops. Field observations indicated a loss of about 12 million bushels.

British Columbia. — Rains throughout the southern part of the province have improved pasture conditions greatly, while snow and rain in the Peace River Block have hampered harvesting. Apple picking is now general in the south. Some lodging of cereals is reported in the Peace River Block. Barley harvest is approximately 50 per cent completed and the harvesting of creeping red fescue is now completed.

#### MARITIME PROVINCES

In the O'Leary area of Prince Edward Island extremely wet, cool weather conditions have seriously affected most crops. Grains are badly lodged and some sprouting has taken place. Yields are expected to be lower than average. Corn and pasture crops still look good. Potatoes are about average but blight, due to the wet weather, may be a future problem. In the area around Charlottetown the grain harvest has been delayed by wet weather and a serious reduction in yield is expected due to disease outbreak and sprouting. The harvesting of canning peas has been completed and the



total pack is expected to be less than that of the previous year. Harvesting of broccoli and cauliflower is continuing with yields and quality ranging from average to above average. Harvesting of brussel sprouts will commence in early October and prospects are promising. Topkilling of potato foliage is common. Blight is present in some fields. Corn for silage is maturing slowly due to the lack of sunny, warm weather. Growth on fertilized pastures and meadows is good. The tobacco harvest is 75 to 80 per cent completed and the quality is average. The failure of the apple crop to size well will result in a reduced volume of saleable fruit.

In the region around Amherst, Nova Scotia, continued wet weather has curtailed harvesting of grain. Late haying has been stopped completely. The land is very wet and soft. The grain crop appears quite good but it looks like a good deal will be left in the fields. Pasture conditions are excellent. Corn silage appears to be very good; however, moisture is presenting difficulties with the harvesting. Vegetable production has also been very good. Four dry days from September 12 to 15 have improved the situation somewhat. Our correspondent at Truro reports that harvesting is at a standstill due to the wet weather. Lodging in grain crops is serious and losses will be considerable. Harvesting of the second cut of hay has also been held up. Blueberry picking is about completed and yields appear higher than previously expected. The corn crop looks good but wet weather has made harvesting extremely difficult. Pastures are in very good condition. In Pictou county wet conditions have curtailed grain harvesting. Some grain has been lodged and this has worsened the situation. There has been very little work done on vegetable crops. Some corn silage has been harvested on drier land. Pasture conditions are quite good. In the Annapolis Valley the very wet weather has caused fields to be quite soft and has held back harvesting of most crops. Approximately one-third of the grain remains to be harvested and much of this grain is lodged. Corn silage is ready to harvest and the crop is in very good condition. However, the wet weather has made harvesting extremely difficult. Most of the tobacco crop has been taken off and the harvest was about average. Pastures are exceptionally good.

In New Brunswick around Fredericton, rainy weather the past three weeks has hampered grain harvesting. The grain crop was previously set back by late seeding and diseases. Now the crop is subject to further losses from straw breakage and sprouting. The corn crop has been delayed by the wet conditions. New seedings of legumes and grasses are doing well. The apple crop in the province is developing well. Harvesting of McIntosh is expected to get under way during the last week of September. Blueberry growers have just harvested a very small crop. However, prices were good. Cool, wet weather has delayed the development of sweet corn and this vegetable still is in adequate supply. Local vegetable growers are currently supplying requirements in the district. Two weeks of dry weather are required. Harvesting of processing peas and beans is practically completed. Harvesting of brussel sprouts for freezing has commenced and picking of tomatoes and cucumbers for pickling is in the final stage. Grain harvesting is generally running two to three weeks behind schedule. In the Perth area cold, wet weather received during the past three weeks has delayed the grain harvest. Lodging is a problem in some fields. Harvesting will continue as weather permits. Yields are about average. Farmers are having difficulty in topkilling potatoes. Several operations have been repeated two to three times. There has been some harvesting of potatoes for early fresh market and processing but harvesting of the main crop will commence next week.

### QUEBEC

Reports from Lennoxville indicate normal temperatures throughout the district except in Wolfe County where some light frosts have occurred. Soil moisture conditions vary from normal to slightly wet. The second cut of legume hay has been finished with below normal yields reported as a result of drought in July. Farmers have harvested 50 per cent of the grain crops and about 10 per cent of the corn silage has now been put up. Pasture conditions are normal.

In the Saint Anne de La Pocatiere area frequent rains at the end of August and the beginning of September delayed ripening of grain crops. However, farmers have now harvested 40 per cent of the cereals and yields are about 15 per cent below normal. Aftermath growth on haylands is normal for this time of year. Potato growers have dug some 30 per cent of the crop with yields down by about 20 per cent. About 60 per cent of the second cut of hay has been completed although yields are reduced. Turnip crop prospects are promising.

### ONTARIO

In Essex county of southern Ontario dry weather has hastened maturity of grain corn and soybeans and a considerable acreage of seed corn and some soybeans has been harvested. Picking of tomatoes is continuing with both yield and quality reported to be good. Silo filling is under way and seeding of fall wheat has commenced. Picking of tobacco is finished. In Kent county silo filling is under way in all areas and seed corn is being picked. The tomato crop was of excellent quality. Some soybeans are being harvested and combining of white beans has commenced. Late-planted corn was severely damaged by a second generation of corn borers. Peppers also were damaged by the corn borer. Evidence of leaf blight is extensive in corn fields.

In Middlesex county an average rainfall of about one inch during the month of August has brought maturity of corn and beans about two weeks earlier than usual. Silo filling is under way and picking of grain corn has commenced. In general it has been one of the best crop years in this county for some time. Heavy rains in Norfolk county have delayed harvesting of grain crops while silo filling operations are just getting under way. Both corn and potatoes are an above-average crop.

In Bruce county of western Ontario spring grains are 80 to 90 per cent harvested with yields varying from fair to good. Silo filling has just commenced and yields of corn are reported to be variable. It will be ten days to two weeks before harvesting of grain corn commences and a good yield is anticipated. The turnip crop was good although many were over-sized. Some second-crop hay remains to be harvested and pastures are in good condition. In Waterloo county harvesting of corn silage is general and yields are above average. A considerable amount of third-cut alfalfa has been harvested with excellent yields reported. Fall ploughing is well under way and recent heavy rains have provided optimum soil moisture reserves. Most grain crops are now harvested in Wellington county and slightly above average yields are reported. Harvesting of corn silage is under way and yields of this crop are also above average. Most of the winter wheat has been seeded. Pastures and new seedings look particularly good due to recent general rains. Silo filling is well under way in Halton county and yields are above average. Grain corn is maturing rapidly. Seeding of winter wheat is general and the abundant rainfall is reflected in excellent pasture condition. Yields of both potatoes and apples have been considerably above average.



In Durham county of central Ontario harvesting of an excellent crop of silage corn is well under way. Grain corn, white beans and soybeans all indicate high yields, while a two-week period without frost would be valuable to late crops. Yields and quality of apples have been good. Recent rains have helped growth of pastures in Peterborough county. Yields of silage corn are running between average to above average. Picking of grain corn will commence soon while harvesting of spring grains is complete except for a few late fields.

In Leeds county of eastern Ontario recent heavy showers have made harvesting operations difficult. However, harvesting of most spring grains has now been completed with quality of early-sown oats particularly good. Grain corn is maturing rapidly and better than average yields are anticipated. Silage operations are under way and yields have been very satisfactory. Soil moisture is adequate and fall ploughing is under way. In Renfrew county silage operations are in progress and both silage corn and grain corn are an excellent crop. Second and third-cut alfalfa is being harvested and combining of an average crop of spring grains is almost completed. More moisture is required for fall ploughing. A report from the Experimental Farm at Kapuskasing indicates that precipitation and temperatures for the first half of September have been average. Yields of second-crop hay have been low probably due to the dry conditions which prevailed in late July and early August. Pastures are in poor condition. About 75 per cent of the spring grains has been harvested and average yields are reported. Early potatoes have been small but the crop is still sizing so yields should improve.

#### MANITOBA

During the past week excessive rainfall has delayed crop harvesting, which was 50 to 60 per cent completed more than a week ago. A fairly heavy frost on September 12 will affect late-seeded cereals and special crops. However, it is still too early to assess the damage. Low quality is reported for some crops but this varies considerably from area to area. Hay supplies are sufficient and pasture conditions have continued to hold.

In south-eastern Manitoba at Morden continuing wet weather has delayed crop harvesting. Swathing is 75 per cent completed, and harvesting 25 to 30 per cent completed. Digging of storage potatoes commenced this week, while the canning corn harvest is nearing completion. During the past week end temperatures in the low 20's caused considerable damage to late-seeded cereals and special crops. Most grain corn is well dented and is not likely to be damaged by the frost.

At Pilot Mound in south-central Manitoba 85 to 90 per cent of the cereals has been swathed, but cool, damp weather has halted harvest operations during the past ten days. Twenty-five per cent of the flax has been swathed and 5 to 10 per cent has been combined. Yields and bushel weights are quite variable due to a frost on September 12. At Melita in the southwest corner of the province harvesting of cereal crops is now 95 per cent completed, and rapeseed and flax crops are 60 per cent completed. A frost on September 13 will mature all late crops. Crop yields have been average for the late crops and just below average for the early ones. The soil is dry down to a depth of 18 inches. Feed supplies are satisfactory.

Northeast of Winnipeg at Beausejour harvesting has been halted due to recent rains. Harvest completion varies from 35 per cent in the wetter areas to 70 per cent elsewhere. Generally, crop yields are average or slightly below average, but good yields have been reported for oats and barley. Pasture and summerfallow

conditions are good. At Selkirk 4 to 6 inches of precipitation during the past two weeks have brought grain harvesting to a halt. Seventy-five per cent of the swathing has been completed, and preliminary indications of yields are: wheat 20, oats 40, barley 30, rye 25, flax 12, and rapeseed 25. The potato harvest is expected to begin in the next two weeks and yields are expected to be above average. The second cut of hay is almost completed with high yields and quality being reported.

In the Winnipeg area at Stonewall rains and cloudy weather have slowed the harvest, but swathing and combining are expected to continue this week. At present the harvest is 15 per cent completed and 10 per cent of the straw has been baled. While there have been no firm reports on quality, it appears that all grades will be down this year. West of Winnipeg at Portage la Prairie rain showers have interrupted harvesting operations. Harvesting of barley and oats is 80 per cent completed, and yields and bushel weight are lower than average. One quarter of the wheat has been combined and yields of 18 to 25 bushels per acre are being reported. Seventy-five per cent of the buckwheat crop has been swathed but little has been combined. Sunflower crops are maturing well and carrot harvesting is now in progress. The celery crop has been harvested, and reports indicate that yields are above average and quality is good.

Harvesting of cereals is now two-thirds completed in the Brandon area. Yields have been average and most of the wheat is grading No.3. Swathing of late maturing cereals and flax has been delayed by mid-September frost, rains and cool weather. The corn silage operation is well under way and pastures appear to be satisfactory. At Virden recent rainfall has stopped all harvesting. Some snow occurred along the Saskatchewan border causing standing crops to lodge. Approximately 40 to 50 per cent of the cereals has been combined, with yields running from fair to good. Heavy frost on September 12 has probably caused some damage to the remaining crops.

At Teulon in the Interlake region showers and cool weather have brought combining to a near standstill. The harvesting of cereal crops is about 50 per cent completed, and a few fields of flax and rapeseed have been harvested.

In west-central Manitoba at Neepawa rain, sleet and frost on September 12 and 13 have delayed harvesting and will cause late crops to turn. Oats and barley are 85 per cent swathed and 70 per cent combined, with barley yields of 35 bushels and oat yields of 40 bushels. Most oats and barley are being graded as feed. Eighty per cent of the wheat has been swathed, and about 60 per cent harvested, with yields running at 20 bushels to the acre and most samples grading No.3. Five to 10 per cent of the flax crop and 85 per cent of the rapeseed crop have been harvested. Rapeseed is yielding approximately 20 bushels to the acre and grading No.1.

At Shoal Lake in west-central Manitoba 50 per cent of the harvest has been completed, and yields are only average, as the heat in August hastened the maturity of crops. There has been some rust on cereal crops and the killing frost on September 12 has damaged late-seeded crops. It appears that hay supplies will be adequate.

Our correspondent in northwestern Manitoba reports that 60 per cent of the harvesting is now completed in the Dauphin area. Crop yields are fair to good, with wide variations in quality and with heavy dockage. There was a general frost on September 13. Pastures are poor to fair and soil moisture is very low. In the Swan River area harvesting is 60 per cent completed, with wheat yielding 30 bushels per acre and grading No.3 or lower. Coarse grain yields are average, with barley grading feed. Rust and heat have had some effect on the quality and yield of most crops. Fall work operations are now well under way.



The unweighted average precipitation for the province since April 1 has been 20 per cent above normal, compared with 14 per cent above normal a week ago, 16 per cent above normal two weeks ago, and in contrast to one per cent below normal a year ago. Mean temperature for the week ending September 14, 1970 was 8.1 degrees below normal, in contrast to 8.9 degrees above normal a week ago, 0.1 degree below normal two weeks ago, and 4.9 degrees above normal for the week ending September 15, 1969.

#### SASKATCHEWAN

Harvesting operations in Saskatchewan were brought to a standstill last week owing to the rain, snow and frost over much of the province. Late crops will have frost damage and harvesting will be slow due to the damp, cold weather. Approximately one half of the crops in the province has been harvested with the percentage completion ranging from 100 per cent in the extreme southwest to 10 per cent in the northwest part of the province. A recent snowfall ranging from three to six inches has flattened standing crops in the southeast of the province where one-half of the wheat was unharvested. Much of the lodged durum crop will be slow in ripening. Owing to the adverse weather, yields will be reduced in many cases and wheat is expected to grade 60 per cent No.1 and 2.

In the southeast part of the province around Moosomin about 40 per cent of the wheat and coarse grains had been combined before the rain and snow was received last week. Yields and grades are good so far but are expected to deteriorate due to the frost and wet weather. Stands of flax appear to be good, however, it is too early to assess the damage that may have been done by the frost. The hay crop has been a good one this year and summerfallows are in excellent shape. Approximately one inch of rain, including up to three inches of wet snow, was received last week end in the vicinity of Indian Head. The poor weather in the district brought all harvesting operations to a halt and caused severe lodging in the standing crops of oats and durum wheat. Swathing of all crops in the area is 80 per cent completed with combining at 50 per cent. Yields have been good with wheat yielding up to 35 bushels per acre and grading No.2 and No.3. Oat yields are up to 70 bushels per acre, barley up to 40 bushels, and rape has been yielding up to 24 bushels. The flax crop is also rated as good. However, no combining has been done with swathing just getting started on this crop. Some growth has started again on summerfallow fields and these will require tillage operation. The hay harvest has been completed. However, the previously dry pastures have now been revived by recent moisture. Livestock remain in good condition. A return of favourable weather may see swathing get under way by the week end but combining will not start again until next week.

In the south-central part of the province around Gravelbourg, our correspondent reports that wheat crops are 90 per cent completed with a yield of 27 bushels per acre; durum wheat 75 per cent completed with yields up to 27 bushels; barley 95 per cent completed and yielding around 45 bushels; oats 99 per cent completed with yields of 75 bushels; rye 100 per cent completed with yields of 22 bushels per acre; and flax 25 per cent completed with yields averaging 17 bushels per acre. Recent snow has delayed harvest and it will take another week of good harvesting weather to complete all operations in the area. Three-quarters of an inch of rain had been received in the previous two weeks to improve soil moisture. Frost had also been reported but no damage is expected as all crops had been swathed. In the southwest part of the province around Val Marie frost and rain had delayed harvesting which is now 70 per cent completed. Wheat is yielding 30 bushels, oats 60, barley 45, and rye 35 bushels per acre. Hay on irrigated land is not yielding as well for the second

cut as anticipated due mainly to the late first cut. Cattle are in very good shape for this time of year. Farther west at Val Marie harvesting has been delayed since the middle of last week due to the rain and snow. Harvesting of crops in the area are 60 per cent completed. Average yields reported in the area are running 25 bushels for wheat, 35 for barley, 40 for oats and flax at 15 bushels per acre. Cattle and pastures are rated good for this time of year. Calves for the most part will be light in weight.

At Swift Current in the southwest part of the province one inch of moisture was received last week causing a delay in the harvest of cereals. The harvest is 70 per cent completed and it will require another ten days of dry weather for completion without loss of yield or quality. Spring-seeded forage crops have been well established and recent additional moisture will be beneficial to the late-seeded forage crops, fall rye and cereal cover crops. The recent frost has stopped the growth in forages but this should not damage cereals and flaxseed crops.

In the east-central part of the province at Melville harvest weather has been poor during the past week with a little better than one-half inch of rain falling over the week end. Nearly all the rapeseed crop has been threshed to date with yields averaging 20 bushels per acre. Farmers harvesting flax report 15 to 18 bushels per acre. Wheat in the district should average 25 to 28 bushels per acre, barley 45 and oats 55 bushels per acre. Recent samples of wheat have shown some light frost damage. At Togo early-sown crops have been harvested with good yields and grades. The later-sown crops have been damaged by frost and lower yields and quality are anticipated. Combining in the district is 75 per cent completed and moisture conditions at present are very dry and pastures are poor.

In the central part of the province around Drake harvesting is only 50 per cent completed owing to delays by cool weather and light precipitation. Some of the wheat crop is still immature but the crop is grading mostly No.2 and 3 Northern, with yields being reduced because of hail damage received at the beginning of July and also due to the hot weather in August. It is reported that yields in rapeseed will be lower than anticipated, but flaxseed is expected to be better than was thought earlier. The small experimental acreage of peas in the area looks promising. Pastures are dry but cattle are in good condition. In the vicinity of Drake a few days of sunshine will permit a resumption of harvesting operations. Fifty-five per cent of the crop has yet to be harvested. Our correspondent reports that yields of wheat are 25 bushels per acre, oats 60, barley 40, and flax 18 bushels per acre. Hay crops have been good.

In the northeast part of the province at Melfort 12 degrees of frost were received on the nights of September 13 and 14 and caused damage to gardens, but field crops generally should be little affected. Swathing in the district is virtually completed with one-half of the crop combined to date. Estimated average yield of crops is as follows: wheat 30 to 35 bushels per acre, oats 75 to 85, barley 30 to 60, Polish type rape 1,000 pounds and Argentine types 1,500 pounds per acre. Bushel weight of barley is running lower than expected due to the late summer heat, but wheat is unaffected and grading for the most part No.3 Northern.

The Saskatchewan Municipal Hail Insurance Association reports the following storms since the last report. August 25, Quill Lake; August 28, Southey, Markinch, Lucky Lake, Elrose, Rosetown, Vanscoy, Dundurn, Bradwell, Colonsay, Viscount, Kelvington; August 29, Milestone, Yellow Grass, Weyburn, Tyvan, Fillmore, Corning, Stoughton, Arcola, Kennedy, Wawota, Carlyle, Fairlight and Maryfield; September 8, Bracken and Orkney; and September 9, Paynton.



The unweighted average precipitation for the province since April 1 has been 11 per cent above normal compared with 11 per cent above normal a week ago, 14 per cent above normal two weeks ago, and in contrast to 17 per cent below normal a year ago. Mean temperature for the week ending September 14, 1970 was 10.9 degrees below normal in contrast to 8.2 degrees above normal a week ago, 1.7 degrees above normal two weeks ago, and 7.8 degrees above normal for the week ending September 15, 1969.

#### ALBERTA

On September 10 and 11 a weather disturbance passed over Alberta bringing rain, snow and below-seasonal temperatures and temporarily halting harvesting operations. Prior to the disturbance harvesting of the 1970 crop was progressing reasonably well and was generally ahead of previous years. Many farmers in southern Alberta have completed threshing without interruption while scattered showers in central and northern areas since September 1 have delayed threshing and interrupted swathing operations.

Our correspondent at Manyberries in southeastern Alberta reports that harvesting operations are now 98 per cent completed and crop yields are higher than previously expected. The district experienced snow and killing frost on September 9. Winter wheat and fall rye are now being sown. One week of good weather will be needed to finish harvesting the remaining crop and finalize haying operations. Livestock are in very good condition. In the Medicine Hat area harvesting is almost completed. Ninety-eight per cent of the wheat crop has now been harvested with oats at 90 per cent, barley at 95 per cent, flax at 75 per cent and rapeseed 100 per cent. Grades are excellent as no rain fell during harvest operations. Grain corn is maturing very well and livestock and pastures are in good condition.

In southwestern Alberta around Lethbridge the first frost was experienced on the night of September 11 with temperatures dropping to 28 degrees. On the following two nights killing frosts were experienced again with temperatures down to 24 degrees. The cereal harvest is 90 per cent completed and yields are average. Most of the flax crop is now swathed. The harvest of potatoes for storage has now started with yields and quality reported as above average. Digging of sugar beets should start on September 28. One thousand acres were sprayed for webworm. Sugar beet growers have also reported maggot and root aphid damage. The sweet corn harvest is now nearing completion. In the Cardston area the harvest is now 90 per cent completed with yields estimated at approximately two-thirds of normal with good grades reported. Haying is now completed. Some winter wheat which was seeded this fall is now showing above the ground. Approximately four inches of snowfall has delayed the completion of the harvest as fields are now very soft. Livestock are in good condition. In the Claresholm area most of the crop is now harvested. It is expected that another ten days of good weather will be required to complete the flax harvest. Temperatures in the area have fallen as low as 20 degrees. One inch of precipitation has been received and considerable winter wheat and rye has been sown since the rain. Grain has been harvested in good condition and is grading high.

In the south-central region around Brooks harvesting operations have been delayed by rains and now stand at 50 to 60 per cent completed. Yields and quality are generally good with wheat averaging 28 bushels per acre and grading No. 2 Northern. There has been a good second cut of alfalfa. The vegetable harvest is under way and carrots are now being processed. Above average yields are being reported for potatoes. There is a good grass cover on prairie ranges and livestock are in good condition.

In the Vulcan area the past week has brought rain and snow amounting to one-half inch of moisture and as a result harvesting was at a standstill. Some harvesting of flax and oats has now resumed. A killing frost was experienced last week with temperatures down to 20 degrees above zero. It is expected that the combination of moisture and frost will probably result in some rather heavy crop losses. Harvesting of all crops is now approximately 60 per cent completed.

In southwest-central Alberta around Calgary good harvesting progress was made up to last week. Swathing of coarse grains is nearing completion and swathing of wheat crops is now about 50 per cent completed. Ten days to two weeks of warm weather will be required before harvesting operations can be resumed due to the snow which was received in the past week.

The area around Sedgewick in northeast-central Alberta experienced some snow and rain over the week end but harvesting operations are now under way. Another week of good harvest weather will be needed for completion of all harvest operations. Rapeseed yields are well below average. However, barley yields are average or better than average. In the Vermilion area harvest weather conditions are good and harvesting operations should be completed by the end of September if the weather holds. Combining of barley crops is now 95 per cent completed with rapeseed crops at 65 per cent and wheat and oats at 50 per cent. The set of alfalfa seed is now complete but yields will only be fair due to the lateness of the crop.

Our correspondent at Edmonton in northwest-central Alberta reports that a sharp frost in the Stony Plain area caused some damage to standing cereal crops. Harvesting operations are now becoming general and with good weather should be completed by the end of September.

At Lacombe in west-central Alberta 0.72 inch of precipitation in the form of rain and snow on September 10 halted harvesting operations and lodged most of the standing crops. The first killing fall frost occurred on September 12 with temperatures reported as low as 23 degrees above zero. Swathing is now 80 per cent completed and combining is approximately 40 per cent. In the Eckville area swathing is nearly completed and combining is approximately 60 per cent completed. Harvesting operations have been delayed due to cold, wet weather. Grain has been yielding well but weights per bushel are around two pounds below standard. Harvesting could be completed with a week of ideal weather. Pastures are holding up well and summerfallows are in good condition.

In north-central Alberta around Bonnyville recent rains have stopped harvesting in some districts. It will be impossible to get machinery into the fields until next week. Fifteen per cent of the grain has been swathed and less than 5 per cent has been combined. Crop yields will be above average and the heavy hay crops have provided a hay surplus. In the Colinton area all harvesting operations are at a standstill as the wet weather continues. Rain mixed with snow last week added another 1.2 inches of moisture to the already saturated fields. A severe frost followed the snowfall last week and crops which did not reach maturity were badly frozen. It is feared that much of the crop will have to be left out over the winter as wet field conditions will not carry the heavy harvesting machinery. Some swathing of forage seed crops has been done. However, yields are expected to be low since the heads did not fill very well. Very little cutting of second-crop hay has been done as farmers are reluctant to risk losing the crop due to wet field conditions. Weed growth is very heavy on all summerfallow fields as the soil is too wet to permit cultivation or spraying.



In the Peace River District around Beaverlodge rain and snow has delayed harvest operations during the past two weeks. A killing frost at 20 degrees on September 10 damaged many late crops. It is estimated that 8 to 10 days of good weather will be required to complete the harvest.

The Alberta Hail and Crop Insurance Corporation reports that unseasonably late hail storms have been prevalent over the reporting period. On September 1 a localized storm was reported at Balzac. On September 3 another localized storm was reported between Valhalla and Hythe. On September 7 a storm beginning at Spirit River travelled in an east to southeast direction over Wanham, Eaglesham, High Prairie and Sunset House. Pockets of severe loss have been reported over the entire length of the storm. On September 9 a storm beginning eight miles northwest of Thorhild moved in a southeasterly direction to Warspite and Smokey Lake. Reports indicate losses to be patchy over the length of the storm. On September 11 a small storm beginning six miles south of Smokey Lake moved southeast to Myrnam with moderate losses reported.

The unweighted average precipitation for the province since April 1 has been one per cent below normal, compared with 2 per cent below normal a week ago, 0.2 per cent below normal two weeks ago and 7 per cent below normal a year ago. Mean temperature for the week ending September 14, 1970, was 11.7 degrees below normal compared with 3.5 degrees above normal a week ago, 1.8 degrees above normal two weeks ago and 4.8 degrees above normal for the week ending September 15, 1969.

#### BRITISH COLUMBIA

At Victoria cool, dry weather has prevailed after three-quarters of an inch of rain Labour Day week end. A light crop of McIntosh apples and Bartlett pears has been harvested. Spartan apples are sizing well with good colour. A good crop of blackberries is mostly harvested. Picking of greenhouse tomatoes has commenced. Fall pasture prospects have improved with recent rain. The outlook is good for a normal crop of late potatoes.

Reports from Agassiz indicate normal September rainfall to date. Harvesting of corn for processing is general, with satisfactory yields of good quality. Harvesting of corn for silage started September 10 with quality excellent but yields reduced 20 per cent by drought. Pastures are greatly improved by the September moisture.

At Summerland apples are maturing early, with recent cool weather improving colour. Harvesting of McIntosh is progressing well and Golden Delicious and Delicious will start in one week. The size of fruit on winter injured trees is a problem, and, in general, size is smaller than 1969. The harvest of peaches and Italian prunes is almost completed. Anjou pears of good quality are now being picked. At Vernon in the north Okanagan, the weather has been cool after an exceptionally hot, dry summer. The first frost was reported on September 9 with a general frost reported on September 11. Soil moisture is still deficient, except where irrigated. Irrigation water reserves are low. All cereals in the area are harvested and the last cutting of alfalfa and corn harvesting is general. Range land in the area is very dry.

The Kamloops area had a record breaking frost on September 11 which halted growth of silage corn and field tomatoes. Rain in the early part of September has been welcome to range land. However, the third cut of alfalfa has either been delayed or is in poor condition. A good yield of potatoes is expected and all corn is now being harvested for ensilage.

Reports from Prince George in the central Interior indicate that cool, damp weather has hampered much of the harvesting of second-cut forage. Small acreages of grain have been harvested. Sharp frosts on September 3 and 4 have virtually eliminated further vegetable growth except for carrots, rutabagas, and cabbage. The small grain acreage should be completely harvested shortly. Pastures are in reasonably good condition. At Smithers in the Skeena River Valley haying is now completed, with an average yield of 2 to 2 1/2 tons per acre. Pastures are in good condition. At Terrace potato, cabbage, and carrot crops are good. The cucumber crop is poor, due to cool, wet weather. In the Lakes district early cereal crops and hay yields are poor because of the dry summer. Late-seeded cereals are being cut for silage.

At Dawson Creek in the Peace River Block combining is in full swing with the return of warm, dry weather. Combining has been intermittent and confined to those with access to driers, until yesterday, due to light snow and rain on September 9 and 10. Harvesting of barley is about 65 per cent completed, with wheat and oat harvests only about 20 per cent completed. Reports from Fort St. John indicate two weeks of unsettled weather has delayed swathing and combining operations. Snow has caused some lodging of crops. Approximately 30 per cent of the cereal crops is harvested. The harvest of creeping red fescue is now completed. Alsike, red clover and alfalfa are now in swath ready for combining. Lack of honey bees has reduced the legume seed crop yield but combining is now in full swing.



Precipitation and Temperature Data, Prairie Provinces(1)

Province and crop district	Station	Precipitation			Mean tem- perature	
		Week ending	Total	Normal	week ending	
		8 a.m. September 14, 1970	since April 1	since April 1	8 a.m. September 14 1970    Normal	
			inches		degrees F.	
<b>MANITOBA</b>						
1	Boissevain	.67	11.12	12.96	48	55
	Pierson	.28	12.89	11.61	46	56
2	Baldur	.78	15.69	13.01	51	56
	Pilot Mound	.98	17.23	12.66	46	55
3	Altona	.59	21.66	12.04	49	57
	Deerwood	.96	14.75	12.56	50	58
	Graysville	N.R.	13.53(2)	11.37	N.R.	56
	Morden	1.07	19.54	12.74	49	58
	Morris	.84	14.39	11.93	48	58
	Portage la Prairie	1.05	13.46	14.70	49	57
	Roland	.73	12.88	12.48	47	58
4	Stonewall	1.00	16.00	13.20	49	56
5	Emerson	.80	21.34	12.62	50	57
	Steinbach	.99	15.65	12.74	48	56
	Winnipeg	1.08	15.10	12.80	48	57
	Starbuck	1.18	13.67	12.61	48	57
6	Pinawa	1.44	15.21	12.23	51	56
	Great Falls	.84	11.13	9.95	49	56
	Sprague	1.95	20.24	14.14	48	54
7	Rivers	.67	11.84	12.51	47	55
	Virden	1.08	14.02	12.18	46	55
8	Brandon	.82	11.89	12.93	46	55
	Cypress River	1.17	15.15	12.47	47	56
9	Gladstone	.52	12.39	13.13	N.R.	55
10	Birtle	.61	15.01	12.82	45	54
	Rosburn	.46	13.59	11.92	44	54
	Russell	.45	10.40	10.63	46	53
11	Dauphin	.20	11.63	12.57	47	56
12	Arborg	.25	10.51	12.64	47	55
	Gimli	.54	11.28	13.14	49	55
	Swan River	.16	12.16	12.32	45	54
13	The Pas	trace	16.19	10.95	46	52
14	Grass River	.49	15.26	12.98	47	55
MANITOBA AVERAGE		.80	14.94	12.47	47.6	55.7

For footnotes, see page IV.

Precipitation and Temperature Data, Prairie Provinces(1)

Province and crop district	Station	Precipitation			Mean tem- perature	
		Week ending	Total	Normal	week ending	
		8 a.m. September 14, 1970	since April 1	since April 1	8 a.m. September 14	
			inches		1970	Normal
						degrees F.
<u>SASKATCHEWAN</u>						
1A	Carlyle	1.09	13.92	11.16	45	54
	Estevan	.75	17.59	10.89	47	57
	Oxbow	N.R.	15.02(2)	10.51	N.R.	54
	Willmar	.56	13.01	11.81	N.R.	N.R.
1B	Broadview	1.02	11.71	12.29	44	53
	Moosomin	1.20	14.44	12.51	48	54
2A	Yellow Grass	.99	15.34	10.53	45	55
	Weyburn	.86	11.18	10.75	44	56
	Midale	.66	14.80	10.62	44	56
2B	Moose Jaw	.81	10.00	10.04	45	57
	Regina	1.03	9.95	10.47	44	55
	Francis	1.04	17.84	10.12	43	54
	Indian Head	.88	14.41	10.46	46	54
3AS	Ormiston	.45	6.81	10.62	46	56
	Cardross	.57	7.69	10.52	48	56
	Ceylon	.60	13.83(2)	10.98	46	55
3AN	Gravelbourg	.85	10.07(2)	9.02	44	56
3BS	Shaunavon	1.14	11.31	9.03	42	56
	Pambrun	1.12	9.63	9.77	42	56
	Aneroid	1.11	8.66	8.83	43	56
	Instow	.90	7.47	9.34	41	55
3BN	Swift Current	1.19	14.26	10.22	41	55
	Pennant	.89	9.23	9.08	39	55
	Hughton	.33	11.04	8.24	44	56
4A	Maple Creek	.47	9.36	8.55	43	56
	Consul	.41	7.96	7.80	44	55
4B	Leader	1.10	9.07	8.12	42	57
5A	Cupar	.70	12.54	10.65	44	55
	Balcarres	N.R.	8.55(2)	11.25	N.R.	N.R.
	Lipton	.66	11.50	N.R.	43	N.R.
	Melville	.70	12.48	N.R.	44	N.R.
	Yorkton	.39	11.44	11.09	45	54
	Bangor	.72	11.90	11.68	45	54
	Wynyard	.16	12.31	10.68	44	54
	Foam Lake	.10	7.52	10.79	41	54
5B	Kuroki	.11	13.60	11.02	43	52
	Kamsack	.08	6.40	10.47	44	54
	Davidson	N.R.	8.93(2)	9.59	N.R.	54
	Strasbourg	.46	9.40	10.94	44	55
	Watrous	.14	9.40	9.51	43	55

For footnotes, see page IV.



Precipitation and Temperature Data, Prairie Provinces(1)

Province and crop district	Station	Precipitation			Mean tem- perature	
		Week ending	Total	Normal	week ending	
		8 a.m. September 14, 1970	since April 1	since April 1	8 a.m. September 14 1970    Normal	
			inches		degrees F.	
<b>SASKATCHEWAN - Concluded</b>						
6B	Harris	.20	9.75(2)	8.11	42	54
	Outlook	.13	10.76	8.21	44	55
	Rosthern	N.R.	3.09(2)	9.19	N.R.	54
	Saskatoon	.07	10.23	8.87	42	54
	Elbow	.35	8.15	9.92	43	56
	Tugaske	.61	10.03	10.06	43	55
	Dundurn	.10	15.03	8.69	44	55
	Kindersley	.81	9.46	8.21	41	55
	Rosetown	.25	10.27	9.12	42	54
7B	Macklin	trace	9.52	9.18	43	52
	Denzil	.07	11.25	9.02	42	52
	Scott	.04	13.11	9.20	41	52
	Biggar	.05	11.19	9.22	42	54
8A	Hudson Bay	.01	13.39	11.33	43	52
	Prairie River	N.R.	12.11(2)	11.54	N.R.	52
8B	Humboldt	.05	8.47	9.06	43	53
	Melfort	.14	10.51	10.15	43	53
9A	North Battleford	.02	10.28	8.83	44	54
	Victoire	.20	9.34	9.95	48	52
	Prince Albert	.08	10.38	10.25	43	53
9B	Waseca	N.R.	14.82(2)	10.57	N.R.	52
	Meadow Lake	.17	13.13	11.02	42	50
SASKATCHEWAN AVERAGE		.53	11.13	9.99	43.5	54.4

**ALBERTA**

1	Empress	.51	6.16	8.35	45	56
	Foremost	.60	9.36	8.51	44	56
	Manyberries	.15	9.30	7.60	45	57
	Medicine Hat	.48	9.66	8.53	45	58
2	Brooks	1.01	9.64	8.89	45	55
	Hays	N.R.	9.65(2)	8.02	N.R.	56
	Rainier	.69	8.42	9.09	44	55
	Vauxhall	.94	8.83	8.10	42	55
	Raymond	.92	9.22	9.32	42	55
	Lethbridge	1.28	8.13	10.12	46	56
	Trochu	.25	12.17	11.36	N.R.	53
	Queenstown	.98	12.86	10.47	39	54

For footnotes, see page IV.



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Precipitation and Temperature Data, Prairie Provinces(1)

Province and crop district	Station	Precipitation			Mean tem- perature	
		Week ending	Total	Normal	week ending	
		8 a.m. September 14, 1970	since April 1	since April 1	8 a.m. September 14 1970	Normal
			inches			degrees F.
<b>ALBERTA - Concluded</b>						
3	Calgary	.30	11.50	12.15	40	52
	Cardston	1.74	11.95	11.25	42	54
	Pincher Creek	1.43	10.45	12.23	39	53
	Fort MacLeod	1.09	9.86	11.25	43	56
	High River	.27	11.97	12.60	38	51
	Magrath	N.R.	8.08(2)	11.35	N.R.	56
	Olds	.61	12.78	13.10	38	52
4	Alliance	.37	11.89	10.12	41	53
	Coronation	.51	7.10	9.88	41	53
	Hughenden	.15	13.95	10.12	41	53
	Lloydminster	nil	13.74	10.22	45	53
	Stettler	.35	14.18(2)	11.16	N.R.	52
	Vegreville	trace	10.60	10.66	41	52
	Ranfurly	.05	10.88	11.70	40	52
5	Vermilion	.07	11.39	11.03	41	51
	Edmonton	.37	11.43	12.66	40	53
	Lacombe	.74	12.19	13.03	40	52
	Red Deer	.78	14.66	12.22	40	52
	Rocky Mountain House	.94	15.64	14.70	39	51
	Wetaskiwin	.38	12.97	12.51	40	52
	Campsie	.08	7.51	13.04	40	50
6	Edson	.63	13.50	14.34	37	49
	Elk Point	.12	10.84	11.17	39	50
	Lac la Biche	.50	16.29	11.55	42	52
	Whitecourt	.31	12.94	13.74	39	49
7	Beaverlodge	.28	5.44	9.96	40	51
	Ft. Vermilion	nil	7.27	8.16	40	49
	Grande Prairie	.25	5.04	9.71	40	51
	High Prairie	.18	8.77	11.11	39	51
	Peace River	.01	7.35	8.02	40	51
	Wagner	.35	13.48	10.37	42	50
<b>ALBERTA AVERAGE</b>		.50	10.68	10.78	41.1	52.8

(1) Source: Meteorological Service of Canada.

(2) Incomplete; not included in average.

N.R. - No report.