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Field Crop Reporting Series - No. 9

(Including Monthly Summary of Fall and Winter Precipitation)
September 1, 1969 to March 31, 1970

TELEGRAPHIC CROP REPORT - PRAIRIE PROVINCES

This is the fifth of the 1970 series of eleven telegraphic reports issued by The Dominion Bureau of Statistics, covering 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

Prairie Provinces. - Farmers have practically finished seeding operations except in parts of Manitoba, particularly the Red River Valley. Recent general rains held up field work but brought welcome relief to the drier areas with a marked improvement in the crop outlook in much of Alberta. Hay and pastures are good. Weed growth has been heavy and spraying operations have commenced.

Manitoba. - Seeding operations are generally nearly completed in the west-central and the Interlake districts of Manitoba and 25 to 90 per cent completed in the Red River Valley. Wheat, coarse grains, flax and buckwheat are still being planted. Growth has been very rapid while weed infestation is moderate to heavy. Spraying operations are just getting under way. Most special crops look excellent and cultivation has just commenced. Insect damage is reported to be light. Mustard and alfalfa are approaching the bloom stage and haying operations are under way and yield prospects are above average.

Saskatchewan. - Recent heavy rains have been general over most of Saskatchewan. Moisture and growing conditions are excellent, but more heat is required. Ninety-nine per cent of the spring seeding has been completed, with only a limited amount of isolated fields of coarse grains and flax remaining to be seeded. The weed growth has been heavy and spraying and summerfallowing have been delayed by the rains. There has been some spraying for flea beetles in rape. A good hay crop is reported in most of the province.

Agriculture Division
Crops Section

5502-508

Alberta. — The past two weeks have witnessed a sharp change in outlook for Alberta crops as heavy rainfall over almost the entire province has prevented serious drought damage in the southeastern part of the province and provided much needed moisture in other areas. Surface moisture reserves which were rated as poor to very poor prior to the rain are now rated as excellent and crop prospects are much improved. It is expected that hay crop yields will be lower than last year in central and southern areas due to the poor initial growth as a result of the low rainfall levels in May and early June. Also, some fall rye and early-seeded wheat crops were damaged by the hot, dry weather and yields are expected to be lower than normal. In northern areas crop prospects are good, pastures are excellent and hay crops are very good. In the Peace River District moisture reserves are running low causing uneven germination and slow crop growth. Weed spraying is now in progress in all parts of the province with the most advanced areas reporting operations now 50 per cent complete.

RUST REPORT FOR THE PRAIRIE PROVINCES

The Canada Department of Agriculture Research Station in Winnipeg reports that wheat leaf rust has developed rapidly on susceptible winter and spring wheat in the Great Plains region of the United States. There was a heavy shower of leaf rust spores on June 6, 7, and 8 in Manitoba and southeastern Saskatchewan. The shower was heaviest in the Red River Valley of Manitoba, moderate at Brandon and light at Indian Head and Regina. Leaf rust was first observed on June 22 and 23 at Winnipeg, Morden and Carmen in southern Manitoba.

Most lower leaves of susceptible varieties had from 1 to 5 pustules. Infection ranging from resistance to susceptible was easily found on lower leaves of Manitou. Although leaf rust has appeared a little later than usual initial infection is much heavier than usual. The rust area of western Canada will probably experience a heavy leaf rust epidemic on susceptible varieties this year. The extent of leaf rust development on Manitou and Neepawa will depend on how much of the rust can attack them and how quickly it increases. There will probably be considerably more leaf rust on these varieties than in the past.

Light infection of wheat stem rust is reported in the United States as far north as southern Minnesota. A few stem rust spores were carried into western Canada on June 6, 7 and 8 and a single pustule was found on Red Bobs at Morden on June 23.

The widely grown varieties are resistant to the races that have been prevalent in recent years. Important stem rust damage will not occur unless the races suddenly change.

Oat stem rust has not been reported north of Texas. Traces of oat crown rust have been reported in southern Minnesota and Wisconsin.

MANITOBA

In southeastern Manitoba at Vita only 40 per cent of seeding has been completed. Early-seeded fields have germinated well although some are patchy due to wet soil. Uncultivated fields are weedy and, although spraying should be done, seeding operations have priority. Hay fields are growing well. Around Morden seeding of coarse grains is 95 per cent completed with some flax acreage still to be planted. Seeding of buckwheat should be general this week. Crops are emerging well under excellent moisture conditions. Some sunflowers in the Winkler area have been damaged by sunflower beetles, and there is also some flea beetle damage reported on rapeseed. Sugar beets are undergoing the first cultivation and about 50 per cent of the summer-fallow has been worked.

In the Pilot Mound region it is anticipated that about 10 per cent of the intended acreage will not be seeded due to the lateness of the season and wet conditions. Moisture supplies are plentiful and crops are making rapid progress under warm temperatures. Early-seeded crops are being sprayed and wild oats are a problem in some areas. Pastures and hay crops look excellent and haying is expected to begin shortly. Precipitation during the past week at Melita has been from 1 to 1.5 inches, with some hail damage reported in the Pierson, Lyeton and Coulter areas. Seeding operations are generally completed and with weeds a greater problem than normal spraying operations have become general. Pastures are good while the hay crop outlook is only fair.

In the area east of Winnipeg at Beausejour seeding operations have been completed except on poorly-drained soils. Most crops are advancing rapidly due to favourable weather conditions. Hay and pastures are in excellent condition. Moisture supplies vary from adequate to excessive. Spraying operations have become general and weed growth is abundant. Seeding is completed in the Selkirk area except for some buckwheat and rapeseed. Germination has been quite uniform although fields are in varying stages of growth due to the wide spread in seeding dates. Some cases of flea beetles are reported on rapeseed and there are several reports of banding due to excessive heat on cereal crops. Crop spraying is in full swing as weed infestation is particularly heavy due to thistles, wild oats and lady's thumb.

In the Brandon area grain crops have emerged uniformly and are making excellent growth. Moisture conditions are good and pastures are growing well. Haying operations have not yet commenced. The weed problem is severe, particularly due to wild oats, green fox tail and thistles. Weeds are also a problem in summerfallow due to lack of cultivation and spraying.

In the Interlake district at Teulon crops are doing fairly well and weed spraying is under way. Seeding operations are generally completed and some of the late-seeded crops could use some additional moisture. Pastures are good and haying will commence this week. Around Arborg seeding is now completed but more moisture is required in certain areas where they have not had rain for two weeks. Wild oats are becoming a problem. Pastures and hay growth is excellent.

At Neepawa in the west-central part of the province intermittent rains continue to delay seeding operations. Seeding of rapeseed and mustard is completed with cereals 90 per cent finished and flaxseed 80 per cent. Germination has been excellent and growth vigorous. Spraying operations are under way in early-seeded fields. Pastures and forage crops are making very good growth. Frequent rains have delayed field operations around Minnedosa and some seeding and harvesting are still being done. Growth of both crops and weeds is very heavy. Erosion is evident in many fields due to recent heavy rains.

At Shoal Lake over 3 inches of rain fell during the past week. Fall rye has headed and is doing well. Spraying operations have commenced and there have been only scattered reports of flea beetle damage. The hay crop should be above average this year. One inch of rain fell during the past week and soil moisture conditions are good. Early-seeded cereals are approaching the shot blade and fall rye has headed. There is some cutworm and flea beetle damage reported in the area. Spraying operations have become general. Pastures and forage crops are in excellent condition.

In the northwest area of the province around Dauphin moisture supplies are satisfactory. Germination was good and growth is excellent. Spraying operations are in progress. Both pastures and hay are in very good condition. There has been

only slight insect damage reported. Seeding is finished at Swan River and growing conditions are good. Fall rye has headed and rapeseed has reached the three leaf stage. There is only a slight amount of flea beetle and cutworm damage to rapeseed. Pastures are good.

The unweighted average precipitation for the province since April 1 has been 45 per cent above normal, compared with 54 per cent above normal a week ago, 54 per cent above normal two weeks ago and in contrast to 36 per cent below normal a year ago. Mean temperature for the week ending June 22, 1970 was 0.3 degree below normal in contrast to 6.4 degrees above normal a week ago, 10.3 degrees above normal two weeks ago and 9.1 degrees below normal for the week ending June 23, 1969.

SASKATCHEWAN

At Moosomin in the southeast of Saskatchewan growing conditions are reported as excellent, with several heavy showers reported during the past week. Pasture, hay, and all other crops have progressed rapidly. There has been some spraying for wild oats. Wild buckwheat and wild millet are a problem in many fields and there are reports of flea beetles in the rape. Good progress has been made with fallow cultivation. At Yellowgrass seeding is almost completed, although approximately thirty days behind normal. Eight and seven-tenths inches of rain has been reported since April 1. The excessive moisture conditions have forced farmers to decrease wheat acreage extensively and increase barley, flax, and summerfallow acreages. The Experimental Station at Indian Head reports that late-sown flax, rape, and cereal crops have emerged rapidly, are very uniform and are making strong growth. These late crops are three to five inches high, and are weed free. Soil moisture conditions are excellent in this district with 2.24 inches of precipitation reported in June, bringing the total since April 1 to 9.35 inches. Work on summerfallow has been delayed by the rains and many fields have not been cultivated this year. These fields have excessive weed growth. Fall rye, particularly if sown on summerfallow, is showing excellent prospects. Yields of grass seed are expected to be high and hay and pasture crops are in excellent condition. No hail damage has occurred in this district.

The Research Station at Swift Current reports 6 inches of rain since June 9, associated with cool weather, has retarded growth and apparently caused spotty nitrogen deficiency. The weed growth is profuse and many crops are too far advanced for spraying. Hay and pastures are excellent and yields of hay of up to one and one-half tons are anticipated. In the Leader district crops are making good growth and recent rains have restored soil moisture. Early wheat is stooling well and will soon be in shot blade. The flax crop is spotty but growing well. Grass crops are reported in good condition.

Around Saskatoon crops are growing well, following good rains during the past two weeks. Early-seeded barley is in shot blade and rapeseed is starting to flower. Spraying of weeds has started in this area. Cutworm damage is appearing in some crops. Hay and pastures are showing exceptionally good growth.

Our correspondent at Rosetown in the west-central area reports three and one-half inches of rain during the past ten days, and some low land is flooded. There has been rapid growth in all crops due to recent hot weather. Farmers in this area are progressing with summerfallowing and spraying operations. Pastures and hay land show good growth. A light infestation of flea beetles is reported in some fields. In the Scott district heavy recent rains have improved crop conditions immensely, but have delayed spraying and fallow tilling. Some damage to rape is reported due to flea beetles and cutworms. Hay and pastures are growing well. Due to increased fallow acreage and low inputs in the fallow operation, weeds are increasing rapidly and in many areas have gone to seed.

Showers in the Melfort area last week prompted rapid growth of cereal and forage crops. A good stand of hay is approaching the heading stage. Early-seeded grain crops have made good growth and are stooling well. There has been some spraying for flea beetles on rapeseed. Wild oats are profuse on medium and late-seeded fields. Sweet clover weevils were prevalent and have done considerable damage on seedling and second year stands of sweet clover. Good stands of fall rye in the Moose Range and Carrot River area have already headed. Spraying for broad leaf weeds has started in this area.

The Saskatchewan Municipal Hail Insurance Association reports storms on June 9 at Oxbow, Torquay, and Rush Lake; on June 15 at Humboldt and Lake Lenore; on June 16 at Rocanville, Esterhazy, Grayson, Melville, Yorkton, Wynyard, Lanigan, Pathlow, Tisdale, Arelee and Fairholme; on June 18 at Gull Lake and Frontier; and on June 19 at Arborfield. Some damage was reported to fall rye, flax and rapeseed.

The unweighted average precipitation since April 1 has been 34 per cent above normal, compared with 43 per cent above normal a week ago, 15 per cent above normal two weeks ago, and in contrast to 40 per cent below normal a year ago. Mean temperature for the week ending June 22, 1970 was 2.1 degrees above normal, compared with 2.6 degrees above normal a week ago, 13.6 degrees above normal two weeks ago, and in contrast to 5.4 degrees below normal for the week ending June 23, 1969.

ALBERTA

In the southeast part of the province around Medicine Hat three to five inches of rain fell during the period from June 13 to 16 and this greatly improved grass and crop conditions. Fall-seeded crops and early spring seedings were too far gone for recovery. The hay outlook is much improved and cattle are in good condition.

Around Lethbridge in the southwest over two and one-half inches of rain fell between June 9 and 17. Drought-threatened crops and range grasses are recovering well and most dugouts are now filled. Spring wheat is in the four to five leaf stage and winter wheat is now mostly headed. Barley is in the shot blade and rapeseed is now coming into bloom. Crop prospects are described as excellent. Weed spraying is in progress and sugar beet crops are now 85 per cent thinned. In the Cardston area moisture conditions are now very good. Fall wheat is all headed. Spring grain crops are described as good while oilseed crops are considered fair. There are some weed problems in fields which are too soft for spraying. Pasture land is recovering very well and cutting of hay crops will start in a week to ten days, with a lighter hay crop than last year expected. All livestock are in good condition. Around Claresholm germination of the spring-sown crops has been very poor this year and after receiving five inches of rain in the past ten days the crop will be very uneven. Weeds are becoming a problem and spraying is now being done throughout the area. In most cases the hay crop will be light due to the cold, dry spring. Pastures are considered good and rye and winter wheat are the best crops in the district.

In south-central Alberta around Brooks a rainfall of between three to seven and one-half inches caused some flooding and water is being pumped off some fields. In some cases topsoil became crusted and baked from the extreme heat causing germinating crops, such as flax, to show poor emergence. The condition of pastures and crops has generally greatly improved. Radishes are now being processed and the first cut of alfalfa is about to begin. At Vulcan approximately five inches of rain in the last two weeks has improved the condition of fall rye, late-sown flax and rapeseed. All grains are growing rapidly and some early-sown barley is in the shot blade stage. Moisture conditions are good and pasture land has become green and is growing well.

In the southwest-central region our correspondent in Calgary reports that 4.2 inches of rain fell between June 13 and 16 which greatly improved all crops. Weed spraying is now 40 per cent complete and haying will commence in one week. Barley crops are now entering the shot blade stage. Summerfallow is in fair condition. At Olds approximately 4 to 5 inches of rainfall has been received in the past two weeks. Moisture conditions are now excellent and crop growth is rapid due to the good weather.

In northeast-central Alberta around Vermilion crops are progressing very well. One and one-half inches of rain along with warm weather has promoted excellent growth. Some reseeded is now being done due to infestations of wild oats and millet. Millet has become a very severe problem this year. Rapeseed is still being seeded but is not expected to do very well.

In central Alberta around Stettler crop conditions have been greatly improved by the recent two inches of rainfall. Very good growth is now reported in hay crops. Crop spraying is under way with heavy infestations of weeds and wild oats reported. The wheat crop averages about four inches in height. General crop prospects look good.

In the northwest-central area around Edmonton growing conditions have improved as a result of the recent general rain. Spraying for control of broad leaf weeds is in full swing and some agents report that the sale of post-emergence wild oat herbicide has increased over last year.

In west-central Alberta our correspondent at Red Deer reports that heavy rains ten days ago which varied between three inches in the east of the district to nine inches in the west caused some flooding of crops and some water erosion. Some crops will have to be either summerfallowed or reseeded. The warm weather which has prevailed since the rainfall has promoted rapid growth of weeds and as a result of the soft fields weed spraying operations have become difficult. It is expected that hay crops will be good this year. At Lacombe over three inches of rain between June 13 and 16 has brought the total since April 1 to the normal of 4.8 inches. Cereal crops are very good with weed spraying now general. Hay and pastures are described as good.

In the north-central area at Colinton all seeding operations are now complete and crops are progressing normally. Hay crops are coming along quite well but are approximately a week to ten days late due to the dry spring. Cutting of hay crops should commence in the second week in July. Pastures are adequate to meet the demand in most cases. Weed spraying operations have started and there is more spraying being carried out this year than last due to a higher moisture level.

In the Peace River District around Beaverlodge some shower activity has helped crops in isolated areas. However, no general rain has yet been received. Early cereal and oilseed crops are being forced by the drought and some of these crops are starting to head. The hay harvest has not yet been started and stands are very light. Some hail damage was experienced on June 21 at scattered locations. Around Peace River growing conditions are satisfactory with subsoil moisture reserves good and surface moisture maintained by showery weather. Wild oats have become a serious problem and some reseeded of crops which were heavily infested is now being done. Some land in the district was not seeded due to spring harvest problems. At Fort Vermilion seeding is now completed. Recent showers will benefit grain, hay and pastures. Light soil areas were beginning to show an urgent need of moisture. Early-seeded rapeseed is now covering the ground and some early barley is in the shot blade. Flax now averages about six inches in height.

The Alberta Hail and Crop Insurance Corporation reports that no significant hail storms have occurred to date.

The unweighted average precipitation for the province since April 1 has been 2 per cent below normal as compared with 0.3 per cent below normal a week ago, 43 per cent below normal two weeks ago and 37 per cent below normal a year ago. Mean temperature for the week ending June 22, 1970 was 4.6 degrees above normal, compared with 1.8 degrees above normal a week ago, 12.7 degrees above normal two weeks ago and 1.0 degree above normal for the week ending June 23, 1969.

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. June 22, 1970	since April 1	since April 1	8 a.m. June 22 1970	Normal
			inches		degrees F.	
<u>MANITOBA</u>						
1	Boissevain	.56	6.11	5.83	63	61
	Pierson	.53	6.64	5.29	64	62
2	Baldur	.61	9.52	5.48	64	62
	Pilot Mound	1.99	11.08	5.46	62	62
3	Altona	.83	14.97	4.96	65	64
	Deerwood	.72	8.64	5.22	62	64
	Graysville	.40	8.53	4.96	62	63
	Morden	.57	10.78	5.52	64	64
	Morris	.80	7.82	4.87	61	64
	Portage la Prairie	.64	7.09	6.42	62	64
	Roland	.69	7.93	5.18	62	64
4	Stonewall	.34	7.31	5.48	62	62
5	Emerson	.54	12.82	5.09	65	64
	Steinbach	1.14	8.61	5.12	62	63
	Winnipeg	.18	7.13	5.37	61	63
	Starbuck	.61	6.79	5.12	62	63
6	Pinawa	.25	6.97	5.47	58	62
	Great Falls	N.R.	4.90(2)	3.95	62	62
	Sprague	3.38	11.73	5.33	59	61
7	Rivers	.55	4.81	5.39	62	61
	Virden	.69	5.83	5.12	63	62
8	Brandon	.54	5.35	5.55	62	62
	Cypress River	.80	10.03	5.36	63	63
9	Gladstone	.32	6.30	5.43	N.R.	62
10	Birtle	1.27	6.98	5.16	60	60
	Rosburn	1.29	6.43	4.73	61	59
	Russell	.75	4.71	4.35	60	60
11	Dauphin	.68	5.65	5.67	62	62
12	Arborg	.41	4.79	5.18	58	61
	Gimli	.44	4.34	5.36	61	62
	Swan River	.44	4.68	4.66	61	60
13	The Pas	.28	4.67	4.27	62	60
14	Grass River	.51	7.68	5.53	61	61
MANITOBA AVERAGE		.74	7.58	5.21	61.8	62.1
<u>SASKATCHEWAN</u>						
1A	Carlyle	.11	8.51	4.50	62	61
	Estevan	.14	9.20	5.06	62	62
	Oxbow	.14	5.96	4.52	61	62
	Willmar	.01	6.95	4.89	N.R.	N.R.

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.	since	since	8 a.m.	
		June 22, 1970	April 1	April 1	June 22	
			inches		1970	Normal
						degrees F.
<u>SASKATCHEWAN</u> - Continued						
1B	Broadview	.27	6.12	5.39	61	59
	Moosomin	.38	5.79	5.25	62	61
2A	Yellow Grass	.18	8.45	4.60	61	61
	Weyburn	.12	7.74	4.52	62	61
	Midale	.07	8.83	4.42	61	62
2B	Moose Jaw	.25	6.85	4.69	63	62
	Regina	.19	5.80	4.71	61	61
	Francis	.21	10.42	4.16	60	60
	Indian Head	.31	9.21	4.73	62	60
3AS	Ormiston	.22	4.58	4.78	62	60
	Cardross	N.R.	4.58(2)	4.83	N.R.	60
	Ceylon	N.R.	8.60(2)	4.80	N.R.	59
3AN	Gravelbourg	.48	7.81	3.97	63	61
3BS	Shaunavon	.80	5.63	4.36	62	60
	Pambrun	.46	6.25	4.42	62	61
	Aneroid	.38	5.56	4.07	62	61
	Instow	N.R.	3.44(2)	4.17	N.R.	60
3BN	Swift Current	.82	9.39	4.78	62	60
	Pennant	.48	5.23	4.21	61	61
	Hughton	1.11	6.42	3.53	63	61
4A	Maple Creek	1.37	4.63	4.02	65	61
	Consul	.66	4.05	3.45	60	59
4B	Leader	1.23	3.98	3.64	64	62
5A	Cupar	.36	5.44	4.32	61	60
	Balcarres	.78	4.26	4.72	N.R.	N.R.
	Lipton	.31	5.60	N.R.	60	N.R.
	Melville	1.75	6.17	N.R.	61	N.R.
	Yorkton	.27	4.03	4.56	63	60
	Bangor	.62	6.10	4.96	62	60
5B	Wynyard	.57	5.68	4.56	62	59
	Foam Lake	N.R.	2.22(2)	4.66	N.R.	59
	Kuroki	.79	4.94	4.71	61	58
	Kamsack	.15	1.04(2)	4.36	61	60
6A	Davidson	N.R.	5.38(2)	4.36	N.R.	60
	Strasbourg	.13	4.87	4.81	63	59
	Watrous	.37	4.02	4.01	64	60
6B	Harris	.54	4.40	3.58	62	61
	Outlook	.36	5.20	3.67	61	62
	Rosthern	N.R.	2.32(2)	3.46	N.R.	61
	Saskatoon	1.02	6.38	3.68	63	61
	Elbow	.27	4.85	4.53	63	60
	Tugaske	.34	6.41	4.49	62	60
	Dundurn	.46	4.50	3.55	64	61

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. June 22, 1970	since April 1	since April 1	8 a.m. June 22	
			inches		1970	Normal
					degrees F.	
<u>SASKATCHEWAN</u> - Concluded						
6B	Kindersley	.92	4.51	3.21	62	61
	Rosetown	.44	6.00	3.84	62	61
7B	Macklin	.35	3.35	3.54	60	59
	Denzil	.70	5.10	3.59	64	60
	Scott	1.24	6.17	3.86	63	58
	Biggar	.71	5.72	3.83	63	60
8A	Hudson Bay	.59	5.15	4.56	62	58
	Prairie River	1.49	4.86	4.76	N.R.	58
8B	Humboldt	.54	3.11	4.07	62	59
	Melfort	.96	4.04	4.26	63	59
9A	North Battleford	1.20	5.38	3.63	64	60
	Victoire	.38	3.06	3.99	64	57
	Prince Albert	1.12	3.47	4.12	63	60
9B	Waseca	.68	4.89	3.92	63	58
	Meadow Lake	.42	4.37	4.17	64	56
SASKATCHEWAN AVERAGE		.56	5.73	4.29	62.2	60.1
<u>ALBERTA</u>						
1	Empress	.93	2.91	3.78	66	61
	Foremost	.84	5.46	4.49	64	61
	Manyberries	N.R.	4.22(2)	3.83	N.R.	61
	Medicine Hat	1.19	5.05	4.27	66	62
2	Brooks	1.13	4.70	4.06	63	61
	Hays	1.61	6.58	3.74	66	61
	Rainier	.68	4.52	4.04	64	61
	Vauxhall	.81	5.08	3.78	64	60
	Raymond	.80	6.62	4.94	64	61
	Lethbridge	.54	5.14	5.51	65	60
	Trochu	N.R.	6.07(2)	4.38	N.R.	58
	Queenstown	.48	6.92	4.93	64	59
3	Calgary	.86	7.09	5.84	61	56
	Cardston	1.08	8.66	6.34	61	57
	Pincher Creek	.61	6.78	7.13	62	56
	Fort MacLeod	.68	6.47	6.25	64	60
	High River	.63	9.12	6.34	59	55
	Magrath	.92	6.51	6.23	62	60
	Olds	.55	7.18	5.60	61	56
4	Alliance	1.19	5.21	3.55	64	59
	Coronation	.51	2.92	3.50	63	58
	Hughenden	1.02	5.10	3.63	62	58

Precipitation and Temperature Data, Prairie Provinces(1)

Province and crop district	Station	Precipitation			Mean tem- perature week ending 8 a.m. June 22	
		Week ending 8 a.m.	Total since April 1	Normal since April 1	1970	Normal
		June 22, 1970				
			inches		degrees F.	
<u>ALBERTA - Concluded</u>						
4	Lloydminster	1.00	5.12	3.81	63	59
	Stettler	.85	3.80	4.52	60	58
	Vegreville	.57	2.05	3.93	64	58
	Ranfurly	.32	2.58	4.16	64	58
	Vermilion	.36	2.82	3.72	63	57
5	Edmonton	.50	1.92	5.10	63	59
	Lacombe	1.54	4.78	5.65	62	57
	Red Deer	2.78	7.35	5.24	62	58
	Rocky Mountain House	1.65	6.68	6.13	60	55
	Wetaskiwin	.67	2.80	5.00	64	58
6	Campsie	.73	1.98	4.77	61	56
	Edson	1.33	4.53	5.57	60	55
	Elk Point	.72	1.94	4.05	62	56
	Lac la Biche	.44	1.67	4.21	62	58
	Whitecourt	.76	2.16	4.94	61	55
7	Beaverlodge	.44	1.94	3.95	63	57
	Ft. Vermilion	N.R.	3.32(2)	3.12	63	58
	Grande Prairie	.27	1.87	4.01	64	57
	High Prairie	1.12	2.78	4.18	61	58
	Peace River	.22	2.18	3.04	62	57
	Wagner	.80	3.11	3.85	60	55
ALBERTA AVERAGE		.85	4.55	4.63	62.7	58.1

(1) Source: Meteorological Service of Canada.

(2) Incomplete; not included in average.

N.R. - No report.

1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts

Province, crop district and station		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal	
		inches								per cent	
MANITOBA											
1 — Boissevain	A.	.83	1.09	.25	.72	1.08	.96	1.77	6.70	85	
	N.	1.52	1.35	1.15	.94	1.18	.53	1.22	7.89		
Lyleton	A.	.66	2.35	.11	1.10	.75	.85	.99E	6.81	95	
	N.	1.57	1.24	.90	.68	1.11	.61	1.06	7.17		
Pierson	A.	.76	1.81	.10	.80	.60	1.10	1.00	6.17	105	
	N.	1.10	.73	.76	.76	.84	.80	.86	5.85		
2 — Pilot Mound	A.	1.56	.94	.33	.64	.60	.88	1.62	6.57	85	
	N.	1.65	1.12	1.10	.84	.91	.83	1.26	7.71		
3 — Morden	A.	1.86	.95	.27	.98	1.03	.90	2.00	7.99	96	
	N.	1.79	1.30	1.14	.92	1.09	.82	1.29	8.35		
Portage la Prairie	A.	1.29	.87	.31	.90	.96	1.13	1.64	7.10	77	
	N.	2.47	1.38	1.45	.72	.97	.77	1.50	9.26		
Roland	A.	2.00	.53	.34E	.77	1.06	.40	1.81	6.91	86	
	N.	1.88	1.26	1.06	.86	1.05	.74	1.23	8.08		
5 — Winnipeg	A.	2.40	1.07	.37	.74	.90	.59	1.08	7.15	84	
	N.	2.16	1.44	1.14	.88	1.03	.82	1.08	8.55		
6 — Great Falls	A.	2.97	.82	.18	.73	.14	.09	.90	5.83	73	
	N.	1.97	.97	1.15	1.07	1.16	.78	.90	8.00		
Indian Bay	A.	2.55	1.12	.37	2.08	1.59	.79	1.56	10.06	103	
	N.	2.34	1.50	1.37	1.11	1.26	.95	1.23	9.76		
Seven Sisters Falls	A.	2.37	.96	.37	1.08	.67	.83	.97	7.25	104	
	N.	2.02	1.36	.67	.56	.70	.65	.99	6.95		
Sprague	A.	2.60	1.80	.29	1.13	.99	.60	.95	8.36	96	
	N.	2.28	1.44	1.19	.86	.98	.81	1.11	8.67		
7 — Rivers	A.	1.59	.63	.25	.50	.93	1.23	1.75	6.88	99	
	N.	1.53	.93	1.04	.88	.81	.79	.96	6.94		
Virden	A.	1.41	.63	.27	.89	1.02	.98	1.30	6.50	107	
	N.	1.42	.98	.72	.74	.68	.56	.96	6.06		
8 — Brandon	A.	1.51	.89	.17	.58	.62	.99	1.99	6.75	105	
	N.	1.60	1.04	.85	.80	.80	.76	.56	6.41		
10 — Birtle	A.	2.26	1.59	.42	.71	.79	1.00	1.83	8.60	140	
	N.	1.60	.92	.88	.69	.70	.54	.81	6.14		
11 — Dauphin	A.	2.69	.93	.46	.76	.58	.65	.85	6.92	89	
	N.	1.81	1.08	1.04	.91	.99	.75	1.17	7.75		
12 — Gimli	A.	2.00	.66	.20	.97	.60	.49	1.27	6.19	69	
	N.	2.27	1.73	1.40	.99	.94	.72	.86	8.91		
13 — The Pas	A.	2.32	1.71	.45	.57	.41	.59	.59	6.64	88	
	N.	2.15	1.10	1.16	.89	.79	.65	.84	7.58		
MANITOBA AVERAGE		A.	1.88	1.12	.29	.88	.81	.79	1.36	7.13	93
		N.	1.85	1.20	1.06	.85	.95	.73	1.05	7.69	

For footnotes, see page X.

1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts — Continued

Province, crop district and station		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal
		inches								per cent
SASKATCHEWAN										
1A — Arcola	A.	1.83	1.24	.10	.60	.60	.80	1.00	6.17	123
	N.	1.05	.71	.68	.63	.59	.58	.78	5.02	
Estevan	A.	1.17	1.18	.07	.64	.87	.70	.54	5.17	84
	N.	1.49	1.00	.89	.71	.68	.63	.76	6.16	
Oxbow	A.	1.08	1.58	trace	.60	.80	1.00	1.00	6.06	111
	N.	1.13	1.14	.87	.54	.64	.47	.66	5.45	
1B — Broad- view	A.	1.38	1.96	.17	.43	.53	.91	.81	6.19	94
	N.	1.60	.88	1.11	.70	.70	.61	.97	6.57	
Fleming	A.	2.21	1.64	.06	.61	1.16	1.15	1.30	8.13	110
	N.	1.47	.80	1.01	1.01	1.06	.68	1.39	7.42	
2A — Clay- bank	A.	1.23	2.93	.10	.69	1.63	.96	1.28	8.82	163
	N.	1.28	.68	.67	.72	.72	.59	.75	5.41	
Weyburn	A.	.94	1.30	.05	.65	.87	.57	.37	4.75	83
	N.	1.21	.84	.74	.66	.75	.66	.86	5.72	
2B — Francis	A.	1.14	2.07	.15	.40	.75	.85	1.30	6.66	143
	N.	1.23	.67	.58	.52	.59	.52	.55	4.66	
Indian Head	A.	1.72	2.38	.19	.56	.74	1.03	.80	7.42	116
	N.	1.38	.83	.96	.78	.82	.70	.93	6.40	
Moose Jaw	A.	1.05	3.31	.20	.58	1.14	.58	.80	7.66	139
	N.	1.19	.62	.74	.80	.77	.62	.76	5.50	
Regina	A.	1.22	2.37	.12	.42	.65	.86	.64	6.28	110
	N.	1.33	.70	.78	.67	.76	.68	.81	5.73	
3AS — Ceylon	A.	.64	1.68	.20	.62	.65	.55	1.30	5.64	107
	N.	1.37	.73	.60	.63	.66	.56	.74	5.29	
Lime- rick	A.	.08	3.34	trace	.85	1.40	.30	1.35	7.32	136
	N.	1.65	.59	.52	.66	.76	.51	.68	5.37	
Gravel- bourg	A.	.91	2.50	.10	.80	1.51	.37	1.09	7.28	146
	N.	1.01	.51	.65	.74	.82	.71	.54	4.98	
3BS — Bracken	A.	.75	2.56	.02	.40	1.29E	.44E	.65E	6.11	147
	N.	.56	.43	.47	.35	.69	.88	.77	4.15	
Hazen- more	A.	1.02	3.13	.11	1.02	1.25	.09	.69	7.31	164
	N.	.94	.56	.51	.48	.72	.56	.70	4.47	
Shauna- von	A.	.59	2.41	.10	.83	1.75	.35	.80	6.83	148
	N.	1.01	.52	.47	.59	.81	.73	.50	4.63	
3BN — Beechy	A.	1.12	2.91	.40	.60	.50	.04	.97E	6.54	137
	N.	1.25	.77	.51	.46	.67	.48	.62	4.76	
Hughton	A.	1.59	2.95	.70	.93	.65	.15	.73	7.70	165
	N.	1.11	.79	.49	.54	.55	.61	.59	4.68	
Swift	A.	.84	2.50	.11	.57	1.30	.94	.55	6.81	120
	N.	1.30	.80	.77	.67	.77	.64	.72	5.67	

For footnotes, see page X.

1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts - Continued

		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal
		inches								per cent
SASKATCHEWAN — Continued										
4A — Maple Creek	A.	1.00	2.59	.05	1.01	2.05	.25	.92	7.87	140
	N.	1.29	.72	.79	.62	.80	.83	.59	5.64	
Nashlyn	A.	.50	.82	trace	.30	1.30	.30	.50	3.72	110
	N.	.78	.45	.40	.36	.49	.43	.47	3.38	
4B — Leader	A.	.95	2.23	.11	.50	1.11	.27	.98	6.15	136
	N.	1.11	.72	.55	.47	.55	.46	.67	4.53	
Roadene	A.	1.03	3.23	.13	.80	1.51	.35	.72	7.77	131
	N.	1.25	.92	.72	.69	.85	.69	.79	5.91	
5A — Hubbard	A.	1.75	2.08	.43E	.70E	.41	.52	.73	6.62	94
	N.	1.57	.93	.86	.91	.95	.87	.96	7.05	
Yorkton	A.	2.50	1.17	.29	.55	.43	.91	1.12	6.97	103
	N.	1.61	.76	1.00	.88	.81	.63	1.09	6.78	
5B — Kristnes	A.	2.41	2.35	.71	.75	.85	.95	1.05	9.07	136
	N.	1.52	.79	1.08	.74	.87	.66	.99	6.65	
Kamsack	A.	2.05	.77	.33	.66	.57E	.66E	1.49E	6.53	109
	N.	1.63	.76	.78	.76	.81	.53	.73	6.00	
Wynyard	A.	2.53	3.04	.39	.44	.52	.58	.98	8.48	131
	N.	1.60	.85	1.00	.70	.80	.60	.90	6.45	
6A — Davidson	A.	1.60	4.36	.36	.31	1.18	.71	.95	9.47	197
	N.	1.28	.71	.53	.57	.46	.55	.70	4.80	
Nokomis	A.	2.33	4.07	.55	1.03	.65	.95	1.45	11.03	200
	N.	1.39	.75	.70	.58	.77	.69	.64	5.52	
Strasbourg	A.	1.22	2.99	.20	.65	.54	.93	.98E	7.51	131
	N.	1.47	.75	.74	.65	.65	.61	.88	5.75	
6B — Outlook	A.	2.53	1.90	.71	.69	.54	.29	.59	7.25	180
	N.	1.16	.57	.39	.44	.51	.47	.49	4.03	
Saskatoon	A.	2.64	2.66	.34	.78	.35	.38	1.23	8.38	148
	N.	1.32	.68	.81	.72	.74	.73	.65	5.65	
Tugaske	A.	1.46	3.85	.25	.65	.80	.70	.85	8.56	143
	N.	1.34	.67	.64	.86	.85	.66	.98	6.00	
7A — Kindersley	A.	1.72	2.06	.47	.61	.75	.48	.79	6.88	174
	N.	1.26	.59	.47	.40	.42	.35	.47	3.96	
Rosetown	A.	2.66	2.35	.60	.90	.65	.25	.96	8.37	174
	N.	1.29	.78	.54	.61	.61	.47	.50	4.80	
7B — Biggar	A.	2.74	1.68	.35	.55	.40	.15	.70	6.57	134
	N.	1.30	.60	.45	.61	.59	.59	.77	4.91	
Macklin	A.	2.35	.74	.60	.80	.45	.40	1.00	6.34	130
	N.	1.19	.80	.43	.70	.59	.54	.63	4.88	
Scott	A.	2.86	1.54	.47	1.12	.30	.19	.98	7.46	138
	N.	1.19	.78	.76	.76	.68	.59	.66	5.42	

For footnotes, see page X.

1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts - Continued

Province, crop district and station		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal
										inches
										per cent
<u>SASKATCHEWAN — Concluded</u>										
8A — Hudson Bay	A.	3.30	2.36	.29	.52	.33	.69	.89	8.38	120
	N.	1.70	.85	1.27	.77	.82	.60	.98	6.99	
Lost River	A.	1.75	3.59	.41	.90	.85	.97	1.46	9.93	154
	N.	1.57	1.02	1.03	.76	.64	.59	.82	6.43	
8B — Humboldt	A.	2.18	3.39	.28	.20	.50	.73	1.27	8.55	197
	N.	.68	.57	.52	.51	.34	.84	.87	4.33	
Melfort	A.	2.66	3.67	.23	.77	.49	.43	.81	9.06	135
	N.	1.64	1.01	1.06	.68	.78	.64	.88	6.69	
Pilger	A.	2.50	3.40	.30	.90	1.55	.92	1.90	11.47	161
	N.	1.60	.92	.95	.90	.83	.78	1.16	7.14	
9A — Cameo	A.	1.87	2.69	.23	.65	.77	.71	1.09	8.01	148
	N.	1.72	.80	.66	.62	.48	.33	.81	5.42	
North Battle- ford	A.	1.77	.78	.31	1.08	.57	.24	1.05	5.80	107
	N.	1.15	.93	.74	.82	.66	.53	.58	5.41	
Prince Albert	A.	1.96	3.44	.25	1.24	.57	.66	.48	8.60	134
	N.	1.42	.96	1.05	.94	.71	.61	.71	6.40	
Spiritwood	A.	2.09	1.69	.11	.73	.51	.67	.76	6.56	124
	N.	1.30	.72	.73	.84	.57	.43	.72	5.31	
9B — Turtleford	A.	2.03	.79	.12	1.05	.20	.55	2.05	6.79	111
	N.	1.13	.93	.82	1.00	.76	.63	.84	6.11	
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SASKATCHEWAN AVERAGE	A.	1.67	2.36	.26	.69	.83	.59	.97	7.38	134
	N.	1.30	.76	.73	.67	.69	.60	.75	5.51	
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<u>ALBERTA</u>										
1 — Consort Wades	A.	2.45	.62	.33	.65	.60	.25	.88E	5.78	111
	N.	1.10	.81	.58	.55	.66	.59	.92	5.21	
Pollockville	A.	3.01	2.20	.14	.37	.89	.25	.96	7.82	145
	N.	1.24	.85	.62	.55	.67	.70	.77	5.40	
Manyberries	A.	.45	1.15	.04	.20	.87	.50	.67	3.88	82
	N.	.96	.65	.62	.52	.64	.60	.77	4.76	
Medicine Hat	A.	.75	1.10	.11	.28	1.48	.19	.44	4.35	67
	N.	1.49	.81	.77	.75	.85	.80	.98	6.45	
Suffield	A.	1.25	.85	.09	.38	1.22	.30	.54	4.63	94
	N.	1.26	.68	.67	.51	.59	.66	.57	4.94	
2 — Brooks	A.	1.54	1.01	.25	.28	1.17	.24	.59	5.08	96
	N.	1.29	.70	.54	.59	.67	.68	.82	5.29	
Drumheller	A.	3.97	.90	.10	.40	.45	.50	.70	7.02	152
	N.	.97	.78	.58	.50	.40	.50	.90	4.63	
Gleichen	A.	2.58	1.12	.50	.28	1.05	.30	.87	6.70	120
	N.	1.07	.86	.65	.56	.65	.84	.96	5.59	

For footnotes, see page X.

1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts - Continued

Province, crop district and station		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal
		inches								per cent
ALBERTA — Continued										
2 — Lethbridge	A.	.55	.52	.09	.16	1.02	.49	1.18	4.01	55
	N.	1.36	1.07	1.05	.78	.88	1.05	1.06	7.25	
Raymond	A.	.44	.67	.15	.45	.95	.71	.96	4.33	59
	N.	1.28	1.15	1.22	.95	.82	.81	1.06	7.29	
Three Hills	A.	2.98	.95	.30	.34	.49	.47	.88	6.41	129
	N.	1.27	.93	.53	.45	.49	.58	.70	4.95	
Trochu Equity	A.	3.40	1.32	.15	.52	.37	.50	.65	6.91	128
	N.	.85	.78	.49	.75	.81	.77	.94	5.39	
Vauxhall	A.	.54	.86	.21	.21	1.27E	.22E	.70E	4.01	73
	N.	1.25	.83	.51	.67	.60	.71	.93	5.50	
3 — Calgary	A.	2.06	1.25	.17	.11	.49	.37	.91	5.36	90
	N.	1.37	.89	.63	.61	.68	.78	1.01	5.97	
Claresholm	A.	.71	.68	.14	.05	1.90	.55	1.95	5.98	84
	N.	1.31	.95	.93	.80	.76	1.04	1.29	7.08	
High River	A.	1.12	1.83	.64	.10	1.00	1.25	1.67	7.61	104
	N.	1.63	1.13	.85	.82	.76	1.00	1.16	7.35	
Pincher Creek	A.	.81	.97	.35	.14	1.34	1.17	2.04	6.82	74
	N.	1.92	1.34	1.24	1.04	1.12	1.19	1.41	9.26	
4 — Camrose	A.	3.49	.71	1.22	1.15	.95	.34	1.16	9.02	174
	N.	1.27	.71	.66	.59	.73	.54	.68	5.18	
Coronation	A.	2.42	.51	.58	1.02	1.04	.72	1.17	7.46	136
	N.	1.36	.74	.53	.64	.74	.63	.85	5.49	
Hughenden	A.	2.53	.48	.69	1.64	.76	.05	.70	6.85	129
	N.	1.28	.74	.60	.63	.77	.66	.61	5.29	
Ranfurly	A.	2.98	.37	.68	.85	.66	.26	.90	6.70	103
	N.	1.72	.80	.90	.86	.80	.60	.82	6.50	
Stettler	A.	4.90	.93	.61	1.33	.41	.45	.90	9.53	174
	N.	1.34	.68	.58	.62	.76	.71	.80	5.49	
Vermilion	A.	2.45	.34	.62	.91	.37	.13	1.01	5.83	104
	N.	1.53	.74	.64	.75	.71	.54	.70	5.61	
5 — Calmar	A.	2.42	1.12	1.18	.35	.58	.87	.90	7.42	112
	N.	1.65	.88	.92	.82	.84	.67	.83	6.61	
Edmonton	A.	3.15	1.02	.70	.70	.58	.47	.87	7.49	112
	N.	1.35	.90	.88	.99	.95	.77	.83	6.67	
Lacombe	A.	3.70	.96	.60	1.16	.42	.48	.84	8.16	132
	N.	1.48	.90	.64	.64	.75	.79	.96	6.16	
Rocky Mountain House	A.	2.78	1.58	1.01	.88	.48	.35	1.14	8.22	109
	N.	1.94	.98	.78	.95	.87	.93	1.06	7.51	
Wetaskiwin	A.	2.78	.84	1.10	1.00	.72	.86	1.31	8.61	132
	N.	1.54	.85	.74	.83	.97	.71	.87	6.51	

For footnotes, see page X.



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1969 Fall and 1970 Winter Precipitation Data, Prairie Provinces
Recording Stations by Crop Districts — Concluded

Province, crop district and station		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Total	% of normal
										inches
										per cent
ALBERTA — Concluded										
6 — Athabasca	A.	4.21	1.36	1.31	.38	.95	.68	2.16	11.05	150
	N.	1.39	.84	1.03	1.13	1.17	.97	.85	7.38	
Campsie	A.	4.11	.45	1.54	.60	1.04	.25	.91	8.90	142
	N.	1.30	.80	.85	.82	.93	.83	.75	6.28	
Edson	A.	3.00	1.18	.45	.27	.30	.55	.96	6.71	92
	N.	1.63	.98	1.03	.99	1.00	.75	.95	7.33	
Elk Point	A.	2.92	.87	.52	.75	.91	.48	2.06	8.51	142
	N.	1.59	.84	.82	.81	.69	.55	.70	6.00	
Iron River	A.	2.79	.95	.26	.52	.60	.58	1.88	7.58	146
	N.	1.43	.68	.87	.66	.50	.46	.59	5.19	
Newbrook	A.	3.16	.76	.80	.67	1.19	.31	1.57	8.46	143
	N.	1.35	.80	.82	.71	.77	.69	.77	5.91	
7 — Beaverlodge	A.	4.92	.55	1.46	.37	.63	.31	1.77	10.01	115
	N.	1.58	1.25	1.29	1.15	1.26	1.16	1.01	8.70	
Fairview	A.	4.53	1.00	1.61	.21	.81	.62	.81	9.59	113
	N.	1.34	1.13	1.27	1.33	1.23	1.19	1.03	8.52	
Falher	A.	5.81	1.15	2.07	.40	.70	.30	1.00	11.43	185
	N.	1.32	1.01	.86	.87	.71	.72	.69	6.18	
Fort St. John	A.	4.65	.64	1.63	.62	.90	.37	1.43	10.24	124
	N.	1.12	1.21	1.19	1.29	1.22	1.16	1.04	8.23	
Grande Prairie	A.	4.86	.44	1.58	.36	.54	.43	1.08	9.29	114
	N.	1.25	1.14	1.08	1.33	1.33	1.20	.82	8.15	
Wagner	A.	5.28	2.08	2.02	.62	.91	.44	1.42	12.77	183
	N.	1.48	.90	1.07	1.16	.87	.92	.59	6.99	
ALBERTA AVERAGE										
	A.	2.81	.96	.70	.54	.83	.46	1.11	7.41	117
	N.	1.37	.89	.81	.79	.81	.78	.88	6.34	

E — Estimated.

A. — Actual, N. — Normal basis 1931-60.

Source: Meteorological Branch, Department of Transport.