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DEPT. OF ENERGY, MINES & RESOURCES  
INLAND WATERS BRANCH  
GREAT LAKES DIVISION  
519 PARKDALE AVENUE NORTH  
HAMILTON, ONTARIO.

PRECIPITATION NORMALS FOR MANITOBA

Monthly and annual normals of rainfall, snowfall and total precipitation are shown on these tables for all stations with an appreciable length of record in the province over the period 1931 to 1960. The element is identified in the table by the letters R, S and T in the column farthest to the right. Generally the averages given are based on at least ten years of record. However, shorter records have been used in a few instances where it is important that some kind of provisional normal be established. In every case a code number is given which indicates the way in which the normals have been calculated. The key to this code is given on page 2.

It is planned to publish a booklet on the new precipitation normals at a later date, and this preliminary listing provides an opportunity to apply any needed editorial corrections. Users of these data are therefore urged to advise Meteorological Branch Headquarters of any errors or omissions.

Similar Climatic Data Sheets are being issued containing new precipitation normals for the other provinces. It is hoped that these will appear within the next few months.

In the tables rainfall, snowfall and total precipitation are expressed in inches, snowfall being given to one decimal place, the other elements to two.

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May 14, 1965.

Climatology Division,  
Meteorological Branch,  
315 Bloor Street West,  
Toronto 5, Ontario.

## TYPE OF NORMAL

<u>CODE</u>	<u>DESCRIPTION</u>
1	Normals were computed directly from a period of record of 25 to 30 years within the period 1931 - 1960. In most cases the record existed over the full 30 years.
2	Same as Code 1, but not as much confidence has been placed in the data. These data were considered suspect, but the over all values are mapable.
3	The data for these normals were from the full ten-year period 1951 - 1960 adjusted to the standard normal period 1931 - 1960.
4	These averages are based on the complete ten years of record from 1951 to 1960. No adjustment factor was used.
5	These averages were obtained by taking a ten-year period of record, ending in the early 1960's. No adjustment factor was used.
6	These averages are based on the period of record of 10 to 24 years during the period 1931 to 1960. No adjustment factor has been used.
7	At several locations the observing station was moved from the town or city to an airport during the 1930's. At many of these locations the records were kept separate, but at those locations indicated by Code 7, the airport and town data were considered homogeneous. The resulting normals are based on the full 30-year period, from 1931 - 1960.
8	These data are based on the period of record of less than ten years.
9	These data are based on a period of record of less than ten years, but adjustments have been made when an unusually warm or cold month unduly influenced the average values.
0	These values were interpolated from isohyetal maps, in the absence of sufficient observational data to calculate a normal directly.

## Monthly and Annual Precipitation in Inches

STATION	TYPE OF NORMAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR	ELEMENT
<b>MANITOBA</b>															
ALTONA	6				.62	2.16	2.77	2.76	2.56	1.86					R
	6				2.5	0.1	0.0	0.0	0.0	0.0					S
	6				.87	2.17	2.77	2.76	.00	.00					P
BERENS RIVER	6	.00	T	.12	.54	1.10	2.54	2.08	2.31	2.42	.94	.14	.00	12.19	R
	6	8.7	7.1	8.0	4.1	0.7	0.0	0.0	0.0	0.9	5.0	11.1	9.1	54.7	S
	6	.87	.71	.92	.95	1.17	2.54	2.08	2.31	2.51	1.44	1.25	.91	17.66	P
BIRD	0	.00	.00	.01	.16	.72	1.93	3.10	2.58	2.29	.55	.01	.00	11.35	R
	0	6.0	5.0	6.9	6.4	4.8	0.7	0.0	0.2	1.1	8.0	10.9	8.0	58.0	S
	0	.60	.50	.70	.80	1.20	2.00	3.10	2.60	2.40	1.35	1.10	.80	17.15	P
BIRTLE	1	.01	.01	.06	.52	1.65	3.64	3.09	2.63	1.58	.59	.13	.01	13.92	R
	1	6.9	5.3	7.5	3.7	1.0	T	0.0	0.0	0.2	3.3	7.5	6.8	42.2	S
	1	.70	.54	.81	.89	1.75	3.64	3.09	2.63	1.60	.92	.88	.69	18.14	P
BISSETT	6	.00	T	.10	.66	2.13	2.88	2.61	2.61	2.69	1.20	.23	.04	15.15	R
	6	11.8	9.8	7.8	3.8	1.3	0.0	0.0	0.0	0.3	2.7	10.1	10.9	58.5	S
	6	1.18	.98	.88	1.04	2.26	2.88	2.61	2.61	2.72	1.47	1.24	1.13	21.00	P
BOISSEVAIN	6				.76	2.06	3.65	2.38	2.99	1.38	.81				R
	6				2.4	1.6	0.0	0.0	0.0	0.3	1.6				S
	6				1.00	2.22	3.65	2.38	2.99	1.41	.97				P
BOISSEVAIN 2	6	T	.03	.09	.47	1.96	4.18	2.11	2.96	1.46	.90	.22	.01	14.39	R
	6	11.8	5.0	11.3	5.6	4.0	0.0	0.0	0.0	0.6	4.5	9.3	9.3	61.4	S
	6	1.18	.53	1.22	1.03	2.36	4.18	2.11	2.96	1.52	1.35	1.15	.94	20.53	P
BRANDON CDA	1	T	T	.13	.62	1.94	3.54	2.92	2.60	1.57	.66	.13	.01	14.12	R
	1	7.6	5.6	8.9	4.3	0.8	0.0	0.0	0.0	0.3	3.8	7.2	7.9	46.4	S
	1	.76	.56	1.02	1.05	2.02	3.54	2.92	2.60	1.60	1.04	.85	.80	18.76	P
BROCHET	6	T	.00	T	.09	1.07	1.67	2.78	2.17	2.35	.73	.04	T	10.90	R
	6	4.4	4.5	5.9	6.3	4.6	0.9	0.0	0.0	0.6	8.5	10.9	8.1	54.7	S
	6	.44	.45	.59	.72	1.53	1.76	2.78	2.17	2.41	1.58	1.13	.81	16.37	P
CHURCHILL	6	T	.00	.01	.06	.41	1.42	2.72	2.47	1.89	.73	.02	T	9.73	R
	6	3.8	3.4	6.5	6.3	2.1	0.8	T	0.0	0.5	8.5	7.8	5.5	45.2	S
	6	.38	.34	.66	.69	.62	1.50	2.72	2.47	1.94	1.58	.80	.55	14.25	P
CHURCHILL A	6	.00	.00	T	.05	.55	1.56	2.03	2.40	1.94	.53	.02	T	9.08	R
	6	5.0	5.5	6.5	9.9	6.5	0.7	T	0.0	1.4	9.7	15.0	8.9	69.1	S
	6	.50	.55	.65	1.04	1.20	1.63	2.03	2.40	2.08	1.50	1.52	.89	15.99	P
CYPRESS RIVER	6	.00	.05	.06	.72	1.79	3.54	2.75	2.48	1.71	.83	.21	T	14.14	R
	6	9.7	5.5	9.2	3.4	0.3	0.0	0.0	0.0	T	2.8	6.9	8.5	46.3	S
	6	.97	.60	.98	1.06	1.82	3.54	2.75	2.48	1.71	1.11	.90	.85	18.77	P
DAUPHIN A	7	.01	.01	.20	.54	1.76	3.81	2.49	2.45	1.77	.75	.18	.02	13.99	R
	7	9.8	7.4	9.7	5.0	1.6	0.0	0.0	0.0	0.4	3.3	8.6	8.9	54.7	S
	7	.99	.75	1.17	1.04	1.92	3.81	2.49	2.45	1.81	1.08	1.04	.91	19.46	P
EMERSON	1				.97	1.85	2.92	2.90	2.70	2.14	1.10				R
	1				2.7	T	0.0	0.0	0.0	0.1	0.9				S
	1				1.24	1.85	2.92	2.90	2.70	2.15	1.19				P
FLIN FLON	2				.30	1.43	2.68	2.66	2.55	1.97	.73				R
	2				3.3	0.2	0.1	0.0	0.0	0.2	1.7				S
	2				.63	1.45	2.69	2.66	2.55	1.99	.90				P
GILLAM	6	.00	T	.01	.16	.73	1.93	3.11	2.57	2.27	.52	.01	T	11.31	R
	6	5.5	5.1	6.5	6.3	4.9	0.7	0.0	0.2	1.1	7.4	10.6	8.1	56.4	S
	6	.55	.51	.66	.79	1.22	2.00	3.11	2.59	2.38	1.26	1.07	.81	16.95	P
GIMLI A	6	T	.06	.20	.57	1.86	3.32	2.92	2.86	2.27	1.49	.29	.02	15.86	R
	6	9.4	6.6	6.6	4.2	1.4	0.0	0.0	0.0	T	2.4	11.1	9.7	51.4	S
	6	.94	.72	.86	.99	2.00	3.32	2.92	2.86	2.27	1.73	1.40	.99	21.00	P
GRAYSVILLE	1	T	.03	.20	.72	1.63	3.19	2.35	2.12	1.96	1.03	.20	.01	13.44	R
	1	10.1	6.2	9.6	3.9	0.9	0.0	0.0	0.0	T	1.8	7.7	7.8	48.0	S
	1	1.01	.65	1.16	1.11	1.72	3.19	2.35	2.12	1.96	1.21	.97	.79	18.24	P
GREAT FALLS	1	T	.01	.11	.56	1.42	2.34	2.30	2.08	1.97	.87	.19	.03	11.88	R
	1	11.6	7.7	7.9	3.4	0.5	0.0	0.0	0.0	T	1.0	9.6	10.4	52.1	S
	1	1.16	.78	.90	.90	1.47	2.34	2.30	2.08	1.97	.97	1.15	1.07	17.09	P

Monthly and Annual Precipitation in Inches

STATION	TYPE OF NORMAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR	ELEMENT
GREYNA	0	.00	.07	.24	.73	2.06	2.90	2.85	2.60	1.97	1.03	.34	.04	14.83	R
	0	10.0	7.3	9.6	3.7	0.4	0.0	0.0	0.0	0.3	2.2	8.6	8.6	50.7	S
	0	1.00	.80	1.20	1.10	2.10	2.90	2.85	2.60	2.00	1.25	1.20	.90	19.90	P
HAMIOTA	1				.63	1.52	3.66	2.72	2.46	1.37	.62				R
	1				2.1	0.3	0.0	0.0	0.0	0.1	1.5				S
	1				.84	1.55	3.66	2.72	2.46	1.38	.77				P
INDIAN BAY	1	.00	.03	.22	.76	1.95	3.15	3.34	2.94	2.33	1.37	.38	.02	16.49	R
	1	12.6	9.2	10.1	5.2	0.6	T	0.0	0.0	0.1	1.3	9.9	10.9	59.9	S
	1	1.26	.95	1.23	1.28	2.01	3.15	3.34	2.94	2.34	1.50	1.37	1.11	22.48	P
LYLETON CDA EPF	4	.03	.03	.14	.53	2.16	3.70	2.01	2.40	1.53	.84	.13	.02	13.52	R
	4	10.8	5.8	9.2	5.2	1.0	0.0	0.0	0.0	0.4	4.0	7.7	6.6	50.7	S
	4	1.11	.61	1.06	1.05	2.26	3.70	2.01	2.40	1.57	1.24	.90	.68	18.59	P
LYNN LAKE	8	.00	.00	.01	.14	1.09	1.75	3.06	2.19	2.74	.45	.03	.04	11.50	R
	8	4.6	6.8	6.5	9.7	1.4	0.0	0.0	0.0	0.0	7.5	8.6	9.3	54.4	S
	8	.46	.68	.66	1.11	1.23	1.75	3.06	2.19	2.74	1.20	.89	.97	16.94	P
MELITA	6	.01	.01	.23	.69	1.83	3.99	2.58	2.89	1.44	.79	.15	.03	14.64	R
	6	7.7	6.8	9.5	4.7	1.6	0.0	0.0	0.0	0.1	3.2	7.2	7.6	48.4	S
	6	.78	.69	1.18	1.16	1.99	3.99	2.58	2.89	1.45	1.11	.87	.79	19.48	P
MINNEDOSA	6	T	T	.15	.56	1.92	3.30	2.94	2.37	1.46	.56	.09	T	13.35	R
	6	6.9	7.0	8.8	2.6	1.0	0.0	0.0	0.0	0.5	4.4	5.7	6.5	43.4	S
	6	.69	.70	1.03	.82	2.02	3.30	2.94	2.37	1.51	1.00	.66	.65	17.69	P
MOOSEHORN	6	.01	T	.07	.70	1.45	3.60	1.78	2.66	2.01	.98	.29	.03	13.58	R
	6	10.3	6.7	9.0	5.0	0.6	0.0	0.0	0.0	0.8	3.6	9.8	8.4	54.2	S
	6	1.04	.67	.97	1.20	1.51	3.60	1.78	2.66	2.09	1.34	1.27	.87	19.00	P
MORDEN	1				.74	2.07	3.00	2.79	2.63	1.79	.99				R
	1				2.6	0.4	0.0	0.0	0.0	0.1	1.5				S
	1				1.00	2.11	3.00	2.79	2.63	1.80	1.14				P
MORDEN CDA	1	T	.07	.26	.85	2.07	3.04	2.76	2.67	1.76	1.07	.32	.04	14.91	R
	1	10.9	7.5	10.3	4.3	0.5	0.0	0.0	0.0	0.3	2.3	8.2	8.8	53.1	S
	1	1.09	.82	1.29	1.28	2.12	3.04	2.76	2.67	1.79	1.30	1.14	.92	20.22	P
MORRIS	2				.86	1.75	3.20	2.55	2.52	1.96	1.33				R
	2				1.4	T	0.0	0.0	0.0	T	1.4				S
	2				1.00	1.75	3.20	2.55	2.52	1.96	1.47				P
NEEPAWA A	6	T	.02	.01	.54	1.72	3.26	2.85	2.58	1.62	.84	.18	T	13.62	R
	6	9.2	5.9	9.3	3.9	1.4	T	0.0	0.0	0.1	4.5	9.1	9.5	52.9	S
	6	.92	.61	.94	.93	1.86	3.26	2.85	2.58	1.63	1.29	1.09	.95	18.91	P
NINETTE	1	.01	.02	.14	.72	2.05	3.70	2.52	2.81	1.57	.75	.23	.04	14.56	R
	1	8.6	6.9	10.2	4.4	0.7	0.0	0.0	0.0	0.3	3.1	7.2	8.8	50.2	S
	1	.87	.71	1.16	1.16	2.12	3.70	2.52	2.81	1.60	1.06	.95	.92	19.58	P
PIERSON	2	T	.01	.16	.61	2.02	3.21	2.47	2.30	1.08	.60	.12	.01	12.59	R
	2	8.4	7.9	7.0	3.9	0.2	0.0	0.0	0.0	0.2	1.3	6.4	7.5	42.8	S
	2	.84	.80	.86	1.00	2.04	3.21	2.47	2.30	1.10	.73	.76	.76	16.87	P
PILOT MOUND PO	7	T	.01	.33	.93	1.85	3.29	2.74	2.65	1.64	.85	.22	T	14.51	R
	7	9.1	8.2	9.3	3.5	0.3	0.0	0.0	0.0	0.1	2.7	8.8	8.4	50.4	S
	7	.91	.83	1.26	1.28	1.88	3.29	2.74	2.65	1.65	1.12	1.10	.84	19.55	P
PORTAGE LA PRAIRIE	1				.70	1.87	3.53	2.66	2.68	1.92	.89				R
	1				2.3	0.9	0.0	0.0	0.0	0.3	3.5				S
	1				.93	1.96	3.53	2.66	2.68	1.95	1.24				P
PORTAGE LA PRAIRIE A	6	.02	.02	.26	.67	2.40	3.87	2.98	2.93	2.43	1.05	.28	.02	16.93	R
	6	9.5	7.5	12.4	4.4	1.4	0.0	0.0	0.0	0.4	3.3	11.7	7.0	57.6	S
	6	.97	.77	1.50	1.11	2.54	3.87	2.98	2.93	2.47	1.38	1.45	.72	22.69	P
RIVERS A	6	.01	.01	.07	.54	1.79	3.77	2.96	2.28	1.51	.64	.16	.01	13.75	R
	6	8.0	7.8	8.9	3.2	0.9	0.0	0.0	0.0	0.2	2.9	8.8	8.7	49.4	S
	6	.81	.79	.96	.86	1.88	3.77	2.96	2.28	1.53	.93	1.04	.88	18.69	P
RUSSELL	6	.01	T	.10	.45	1.42	3.17	2.29	2.25	1.55	.54	.08	.00	11.86	R
	6	4.9	4.7	5.9	2.5	0.4	0.0	0.0	0.0	T	1.4	4.6	4.3	28.7	S
	6	.50	.47	.69	.70	1.46	3.17	2.29	2.25	1.55	.68	.54	.43	14.73	P
ST ALBANS	6	.01	T	.18	.60	1.65	2.74	2.77	2.71	1.63	.64	.12	.03	13.08	R
	6	10.1	8.5	7.9	5.6	1.1	0.0	0.0	0.0	0.6	4.3	7.5	10.1	55.7	S
	6	1.02	.85	.97	1.16	1.76	2.74	2.77	2.71	1.69	1.07	.87	1.04	18.65	P

## Monthly and Annual Precipitation in Inches

STATION	TYPE OF NORMAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR	ELEMENT
SEVEN SISTERS FALLS	4	T	.00	.22	.83	2.06	2.95	2.65	2.36	2.02	1.34	.02	.10	14.55	R
	4	7.0	6.5	7.7	4.7	0.0	0.1	0.0	0.0	T	0.2	6.5	4.6	37.3	S
	4	.70	.65	.99	1.30	2.06	2.96	2.65	2.36	2.02	1.36	.67	.56	18.28	P
SOURIS	6	T	.02	.21	.75	1.75	3.69	2.86	2.28	1.58	.85	.13	.01	14.13	R
	6	7.7	5.1	9.2	2.9	0.9	0.0	0.0	0.0	0.2	2.7	6.2	8.4	43.3	S
	6	.77	.53	1.13	1.04	1.84	3.69	2.86	2.28	1.60	1.12	.75	.85	18.46	P
SPRAGUE	1	.01	.04	.18	.95	1.95	3.06	2.92	3.51	2.28	1.30	.47	.06	16.73	R
	1	9.7	7.7	9.3	4.2	0.7	0.0	0.0	0.0	0.0	1.4	7.2	8.0	48.2	S
	1	.98	.81	1.11	1.37	2.02	3.06	2.92	3.51	2.28	1.44	1.19	.86	21.55	P
SWAN RIVER	6				.55	1.55	3.18	3.13	2.65	1.75	.74				R
	6				3.8	0.1	0.0	0.0	0.0	0.0	1.4				S
	6				.93	1.56	3.18	3.13	2.65	1.75	.88				P
THE PAS	1	.02	T	.04	.50	1.50	2.38	2.61	2.35	2.15	.85	.13	.01	12.54	R
	1	8.9	7.2	9.4	5.3	1.0	T	0.0	0.0	0.2	3.5	12.2	10.9	58.6	S
	1	.91	.72	.98	1.03	1.60	2.38	2.61	2.35	2.17	1.20	1.35	1.10	18.40	P
THE PAS A	6	T	T	.01	.41	1.62	2.35	2.69	2.32	2.08	.74	.07	.00	12.29	R
	6	7.9	6.5	8.3	6.1	1.7	0.1	0.0	0.0	0.7	3.6	10.9	8.9	54.7	S
	6	.79	.65	.84	1.02	1.79	2.36	2.69	2.32	2.15	1.10	1.16	.89	17.76	P
VIRDEN	1				.51	1.70	3.59	2.68	2.54	1.42	.73				R
	1				3.2	0.8	0.0	0.0	0.0	T	2.5				S
	1				.83	1.78	3.59	2.68	2.54	1.42	.98				P
WABOWDEN	6	T	T	.02	.12	1.38	2.59	3.13	2.58	2.23	.67	.05	.01	12.78	R
	6	6.3	5.7	5.6	6.8	1.9	0.5	0.0	0.0	0.1	4.0	8.9	6.8	46.6	S
	6	.63	.57	.58	.80	1.57	2.64	3.13	2.58	2.24	1.07	.94	.69	17.44	P
WANLESS	6	.01	T	T	.41	1.08	2.50	2.34	2.41	1.79	.80	.23	T	11.57	R
	6	8.6	9.0	9.3	7.3	1.8	0.4	0.0	0.0	0.9	5.4	17.1	10.7	70.5	S
	6	.87	.90	.93	1.14	1.26	2.54	2.34	2.41	1.88	1.34	1.94	1.07	18.62	P
WASKADA	6	.02	.00	.23	.69	1.74	3.75	2.73	2.31	1.20	.60	.18	.03	13.48	R
	6	7.9	7.6	8.4	3.3	0.4	0.0	0.0	0.0	0.1	3.3	6.7	8.5	46.2	S
	6	.81	.76	1.07	1.02	1.78	3.75	2.73	2.31	1.21	.93	.85	.88	18.10	P
WINNIPEG INTERNATIONAL A	7	.01	.03	.27	.78	1.87	3.19	2.71	2.76	2.14	1.17	.26	.03	15.22	R
	7	10.2	7.9	8.1	3.9	1.0	T	T	0.0	0.2	2.7	8.8	8.5	51.3	S
	7	1.03	.82	1.08	1.17	1.97	3.19	2.71	2.76	2.16	1.44	1.14	.88	20.35	P