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ATMOSPHERIC ENVIRONMENT SERVICE

EXTREMES OF TEMPERATURE AND PRECIPITATION IN ONTARIO

Everyone is fascinated by records or extremes and climate is no exception. the lowest temperature ever recorded, the wettest single day, the driest summer and snowiest winter season are statistics frequently requested for their interest-sake by the general public and by engineers, consultants and decision makers for design and planning purposes. This circular is the first in a series of summaries on temperature and precipitation extremes for each province and territory of Canada, based on climatological records to the end of 1976.

There are certain conditions of geography and time that favour the occurrence of extreme values. Moreover, there are changes in instrumentation, observatorial procedures and in standards of data assurance that can affect the acceptance of extremes. For example, some of the earlier records might not stand up if measured with the newest instruments or run through current quality control procedures. Even now, potential extremes may not be recorded because they exceed the scale on standard meteorological instruments. The values in this report, however, have been screened through elaborate computer systems of data control and scrutinized by trained personnel of the Atmospheric Environment Service and therefore have been accepted as official Canadian records.

All extremes were obtained by examining data in published and unpublished tabulations and summaries and original weather documents. Every climatological station, both active or discontinued, was searched.

The first official meteorological observation taken in Ontario was at Toronto in December 1839. The observing network in 1976 consisted of 430 stations.

TEMPERATURE

Air temperature is measured in a ventilated louvred screen at a height of between 1.2 and 2 m above the ground. All thermometers are self-registering type with the maximum a mercury type that freezes below -39°C, and the minimum one containing other liquids, with much lower freezing points, such as ethyl alcohol. Record maximum temperatures listed in Table 1 are for individual stations above 37.8°C. Similarly, in Table 2, all record minimum readings below -45.6°C are listed in descending order. The values originally recorded in whole degrees Fahrenheit have been converted to tenths of degrees Celsius.

PRECIPITATION

Precipitation is measured by the depth to which it covers a horizontal unit area of the earth's surface during a given period. Since 1974, the official rain gauge at Canadian climatological stations is the Rain Gauge Type B (large capacity) installed at a height of 40 cm. This gauge has a capacity of over 250 mm and was developed to eliminate loss of data due to overflow during heavy storms or prolonged periods of exposure. Most of the precipitation extremes listed were measured with the former standard ordinary or non-recording gauge with a 120 mm capacity installed at a height of 31 cm.

Precipitation totals listed in Table 3 - above 130 mm, Table 4 - above 290 mm, Table 5 - above 1320 mm and in Table 6 - below 400 mm, are in order of extreme values regardless of date or station. The values originally recorded in inches have been converted to millimetres.

All-time temperature and precipitation extremes for Canada are listed in Table 7 together with extremes for stations in North America and the World (1, 2, 3).

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1. United States Department of Commerce: Climates of the World. Washington D.C., 1969.

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3. Ludlum, David M.: Weather Record Book - United States and Canada. Weatherwise, Inc., Princeton, New Jersey, 1971.

FDM
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TABLE 1

EXTREME MAXIMUM TEMPERATURE ABOVE 37.8°C

°C	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
42.2	Jul. 11, 1936*	Atikokan CLI	48 44	91 38	391	57
	Jul. 20, 1919	Biscotasing	47 17	82 07	406	58
	Jul. 13, 1936	Fort Francis	48 37	93 27	343	66
41.7	Jul. 13, 1936	Emo	48 38	93 48	337	34
	Jul. 12, 1936	Ignace	49 25	91 40	453	56
	Jul. 07, 1936	Kakabeka Falls	48 24	89 37	278	64
	Jul. 12, 1936	Mine Centre	48 44	92 32	366	60
41.1	Jul. 12, 1936	Armstrong	50 17	89 09	342	16
	Jul. 13, 1936	Caribou Lake	50 22	89 06	377	3
	Aug. 06, 1918	Chatham 2	42 24	82 12	181	43
	Jul. 13, 1936	Coniston	46 28	80 49	237	52
	Jul. 09, 1936	Grimsby Rock Chapel	43 11	79 35	198	53
	Jul. 14, 1868	Hamilton	43 15	79 57	78	60
	Jul. 29, 1916	Iroquois Falls	48 45	80 40	259	61
	Aug. 06, 1918	London South	42 59	81 13	246	48
	Aug. 20, 1906	Paris	43 12	80 25	256	54
	Jul. 24, 1934	Pelee Island	41 46	82 41	181	74
40.6	Jul. 08, 1936*	Agincourt	43 47	79 16	180	71
	Jul. 09, 1936	Belleville Par Lab	44 10	77 21	88	28
	Jul. 13, 1936	Bingham Chute	46 05	79 24	242	37
	Jul. 08, 1936	Brantford	43 08	80 16	206	69
	Jul. 09, 1936	Delhi CDA	42 52	80 33	232	43
	Jul. 19, 1934	Gogama	47 40	81 43	355	2
	Jul. 04, 1911	Grimsby	43 14	79 32	88	51
	Jul. 01, 1931	Haliburton	45 02	78 31	335	85
	Jul. 14, 1936	Harrow CDA	42 02	82 54	191	60
	Jul. 11, 1936	Kenora	49 48	94 32	336	33
	Jul. 12, 1936	Quorn	49 25	90 54	445	40
	Jul. 10, 1936	Ridgetown	42 27	81 53	206	70
	Jul. 03, 1911	Scarborough Junction	43 43	79 13	167	6
	Jul. 10, 1936*	Toronto	43 40	79 24	116	137
	Jul. 13, 1936	Turbine	46 23	81 34	206	61
	Jul. 02, 1931*	Tweed	44 30	77 19	145	46
40.0	Jul. 01, 1931	Apsley	44 46	78 05	274	33
	Jul. 13, 1936	Beeton	44 06	79 47	233	53
	Jul. 08, 1936	Belleville	44 09	77 24	76	56
	Jul. 28, 1933	Bloomfield	43 59	77 21	79	42
	Jul. 13, 1936	Camp Borden A	44 19	79 54	233	9
	Jul. 11, 1936	Chatham	42 24	82 12	183	35
	Jul. 04, 1919	Collingwood	44 29	80 13	183	59
	Jul. 10, 1936*	Ear Falls	50 38	93 13	361	39
	Jul. 14, 1936	Leamington	42 03	82 38	213	61
	Jul. 05, 1911	Lindsay	44 20	78 45	266	92

°C	DATE	STATION	LAT.N 0 '	LONG.W 0 '	ELEV. m	YEARS OF RECORD
	Jul. 11, 1936	Longlac	49 45	86 30	317	29
	Jul. 04, 1911	Lorne Park	43 32	79 37	94	3
	Aug. 07, 1918	Lucan	43 11	81 24	299	47
	Jul. 01, 1931	Madawaska	45 30	77 59	316	60
	Jul. 11, 1936	North Lake	48 08	90 34	479	21
	Jul. 08, 1936*	Oak Ridges	43 58	79 28	340	47
	Jul. 05, 1911	Orillia	44 37	79 24	224	55
	Jul. 03, 1911	Owen Sound	44 34	80 55	182	78
	Jun. 19, 1933	Pickle Lake	51 27	90 12	369	34
	Jul. 13, 1936	Port Arthur	48 27	89 14	241	65
	Jul. 09, 1936	Port Dover	42 47	80 13	186	95
	Jul. 10, 1936	St. Catharines	43 09	79 17	106	54
	Jul. 10, 1936	St. Catharines Path Lab	43 11	79 14	99	35
	Jul. 11, 1936	Savant Lake	50 28	90 21	399	10
	Jul. 09, 1936	Simcoe	42 52	80 20	217	40
	Jul. 06, 1921	Stonecliffe	46 09	78 06	149	50
	Aug. 06, 1918	Wallaceburg	42 35	82 24	178	58
39.4	Jul. 13, 1943	Bear Island	46 59	80 05	294	42
	Jul. 31, 1917*	Brockville	44 33	75 40	85	68
	Jul. 09, 1936	Caledonia	43 05	79 57	206	24
	Jun. 30, 1931	Chapleau	47 50	83 26	432	50
	Jul. 11, 1936	Dryden	49 46	92 51	372	61
	Jul. 13, 1936	Georgetown	43 38	79 55	258	52
	Jul. 30, 1975	Manitouwadge	49 09	85 48	332	20
	Jul. 10, 1936	Orono	43 58	78 37	148	54
	Aug. 18, 1934	Pagwa	50 03	85 18	189	15
	Jul. 01, 1931	Pembroke	45 48	77 11	125	64
	Jul. 31, 1975*	Pinard	49 51	81 36	232	13
	Aug. 19, 1955	Ramsey	47 25	82 19	426	15
	Jul. 03, 1911*	Renfrew	45 26	76 39	127	38
	Jul. 27, 1931	Ruel	47 18	81 27	410	41
	Jun. 29, 1931*	Sioux Lookout	50 08	91 52	374	8
	Jul. 03, 1911*	Stoney Creek	43 13	79 45	89	39
	Jul. 13, 1936	Timagami Forestry	47 06	79 46	---	4
	Jul. 12, 1936	Timmins	48 30	81 20	335	35
	Jul. 03, 1931	Toronto Cottingham	-- --	-- --	---	4
	Jul. 10, 1936*	Vineland Station	43 11	79 24	79	50
38.9	Jul. 05, 1911	Barrie	44 23	79 41	256	46
	Jul. 12, 1936	Cameron Falls	49 09	88 21	229	49
	Jul. 01, 1931	Chalk River	46 00	77 26	168	45
	Aug. 01, 1955	Clarkson	43 31	79 37	93	16
	Jul. 05, 1897*	Clontarf	45 23	77 09	245	62
	Jul. 30, 1916*	Dutton 2	42 40	81 32	220	9
	Jul. 05, 1911*	Elora	43 41	80 24	388	26
	Jul. 08, 1936	Forest	43 06	82 00	217	40
	May 26, 1972*	Fort Albany	52 13	81 40	15	7
	Jul. 02, 1911*	Haileybury	47 27	79 38	215	61

°C	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
	Jul. 12, 1936	Ingolf	49 49	95 09	363	10
	Jul. 31, 1975	Kidd Creek Mine	48 41	81 22	277	8
	Jul. 31, 1975	Kirkland Lake	48 09	80 02	320	28
	Aug. 14, 1918*	Lakefield	44 25	78 15	235	49
	Jul. 08, 1936*	London Lambeth A	42 59	81 13	246	9
	Jun. 26, 1912*	Markdale	44 19	80 39	415	9
	Jul. 05, 1921*	Montreal River	47 07	79 29	183	57
	Sep. 11, 1931	Ottawa	45 24	75 43	72	50
	Aug. 01, 1975	Petawawa A	45 57	77 19	130	8
	Jul. 11, 1936	Peterborough	44 17	78 19	198	82
	Jul. 10, 1936	Queensboro	44 36	77 25	195	31
	Jul. 09, 1936*	St. Thomas	42 48	81 11	208	51
	Aug. 25, 1948	Stayner	44 25	80 05	218	6
	Jul. 08, 1936	Stratford	43 23	81 00	363	73
	Jul. 31, 1975	Timmins A	48 34	81 22	295	21
	Jul. 09, 1936*	Trenton A	44 07	77 32	86	38
	Jul. 09, 1936	Walkerton	44 08	81 09	244	56
	Jul. 09, 1936	Woodstock	43 07	80 45	299	96
38.3	Jul. 01, 1931	Algonquin Park	45 35	78 33	433	44
	Jul. 06, 1911	Alton	43 51	80 05	401	62
	Jul. 30, 1975	Armstrong A	50 17	88 54	320	38
	Jul. 10, 1936	Brucefield	43 33	81 33	259	73
	Aug. 05, 1876	Brunel	45 15	79 11	---	3
	Aug. 25, 1948*	Burlington	43 21	79 48	105	25
	Jul. 30, 1975	Caramat	49 16	85 50	338	15
	Jul. 16, 1959	Chatsworth	44 24	80 54	305	16
	Jul. 31, 1975	Earlton A	47 42	79 51	243	38
	Jun. 30, 1931*	Franz	48 28	84 25	373	37
	Aug. 06, 1918*	Guelph OAC	43 33	80 16	340	88
	Jul. 01, 1931	Huntsville	45 19	79 15	290	38
	Jul. 12, 1936	Kapuskasing	49 25	82 26	218	58
	Jun. 27, 1941*	Kemptville	45 00	75 38	98	46
	Aug. 06, 1918*	Kitchener	43 27	80 31	343	61
	Jul. 09, 1936	Lucknow	43 58	81 31	268	90
	Jul. 12, 1936*	Minaki	49 58	94 40	325	12
	Aug. 26, 1948	Niagara Falls	43 06	79 04	175	31
	Jul. 17, 1887	Petrolia	42 51	82 09	203	7
	Jul. 27, 1955	Preston	43 24	80 25	291	24
	Jul. 11, 1936	Rat Rapids	51 12	90 14	375	16
	Aug. 11, 1944	Renfrew Sand Point	45 29	76 26	127	29
	Jul. 14, 1901	Savanne	48 58	90 12	459	49
	Jul. 12, 1936	Sioux Narrows	49 29	93 58	411	13
	Jul. 11, 1936	Steep Hill Falls	48 04	84 48	335	20
	Jul. 31, 1975	Sudbury	46 29	80 59	259	38
	Jul. 01, 1894*	Thorold	43 13	79 11	117	3
	Aug. 25, 1948	Toronto Int'l A	43 42	79 38	171	39
	Jul. 05, 1921*	Wawaitin	48 21	81 24	271	47
	Jun. 30, 1931	White River	48 35	85 17	379	84

°C	DATE	STATION	LAT.N 0 '	LONG.W 0 '	ELEV. m	YEARS OF RECORD
	Sep. 06, 1881	Windsor	42 19	83 02	189	27
	Jul. 27, 1941	Windsor A	42 16	82 58	190	36
	Aug. 29, 1881	Zurich	43 24	81 36	257	12
37.8	Jul. 12, 1936	Abitibi Canyon	49 53	81 34	204	33
	Jul. 27, 1955	Aldershot Ont Hydro	43 20	79 50	99	22
	Jul. 07, 1921	Almonte	45 12	76 13	119	25
	Aug. 14, 1944*	Angus	44 19	79 52	191	28
	Jul. 03, 1911	Aurora	43 57	79 24	270	10
	Jul. 05, 1911	Bancroft	45 01	77 50	327	64
	Jul. 05, 1911	Birnam	43 02	81 55	183	15
	Jul. 03, 1898	Bognor	44 40	80 50	250	5
	Jun. 28, 1971	Chatham	42 26	82 16	178	5
	Jul. 09, 1955	Chatham CFCO	42 23	82 12	181	15
	Aug. 01, 1975	Chats Falls	45 28	76 13	73	26
	Aug. 01, 1975	Chenaux	45 35	76 41	84	26
	Jul. 03, 1911	Cottam	42 07	82 45	185	16
	Jun. 28, 1971	Courtright	42 45	82 27	186	7
	Jul. 13, 1936	Crystal Falls	46 27	79 52	227	54
	Sep. 11, 1931	Dacre	45 23	76 55	221	9
	Jul. 31, 1975	Des Joachims	46 11	77 42	130	26
	Jun. 28, 1971	Dresden	42 35	82 11	183	6
	Jul. 09, 1936	Durham	44 10	80 50	339	49
	Jul. 31, 1975	Elliot Lake Denison	46 30	82 37	434	3
	Aug. 04, 1887*	Galt	43 23	80 22	265	39
	Jul. 13, 1936	Gore Bay	45 52	82 29	255	59
	Jul. 10, 1936	Grand Valley	43 53	80 21	470	5
	Sep. 02, 1953*	Hamilton RBG	43 17	79 53	102	27
	Jul. 01, 1931	Heaslip	47 48	79 50	222	36
	Jul. 27, 1955	Jarvis	42 53	80 07	213	2
	Jul. 31, 1975	Moosonee	51 16	80 39	10	44
	Jul. 07, 1921	Morrisburg	44 55	75 11	82	64
	Jul. 13, 1936	New Liskeard	47 30	79 40	194	48
	Jun. 30, 1931	Oba	49 04	84 06	331	16
	Jul. 17, 1887	Oshawa	45 53	78 52	101	20
	Jul. 04, 1913*	Ottawa CDA	45 23	75 43	87	71
	Aug. 11, 1944*	Ottawa Int'l A	45 19	75 40	114	38
	Jul. 22, 1955	Ottawa Rockliffe A	45 27	75 38	54	22
	Jul. 06, 1921	Parry Sound	45 20	80 00	194	100
	Jul. 09, 1936	Picton	44 01	77 09	---	16
	Aug. 23, 1898*	Port Hope	43 56	78 20	---	26
	Jul. 29, 1917	Rainy River	48 44	94 33	332	8
	Jul. 06, 1921	Rutherglen	46 15	79 04	240	47
	Jun. 28, 1971	Sarnia A	43 00	82 18	181	9
	Jun. 28, 1971	Sarnia Polymer	42 57	82 26	189	15
	Jul. 02, 1966	Smithfield CDA	44 05	77 40	104	27
	Jul. 07, 1921	Smiths Falls	44 55	76 03	---	1
	Jul. 12, 1936	Smoky Falls	50 04	82 10	183	43

°C	DATE	STATION	LAT.N 0 '	LONG.W 0 '	ELEV. m	YEARS OF RECORD
	Jul. 30, 1916	Sturgeon Falls	46 21	79 51	209	5
	Jul. 31, 1975	Sudbury	46 29	80 59	259	37
	Aug. 25, 1948	Toronto East	43 42	79 17	122	3
	Jun. 28, 1971	Wardsville	42 36	81 46	213	7
	Jul. 04, 1911*	Welland	42 59	79 15	177	94
	Jun. 26, 1952	Woodslea	42 13	82 44	183	29

* Also at a later date

TABLE 2

EXTREME MINIMUM TEMPERATURE BELOW -45.6°C

°C	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
-58.3	Jan. 23, 1935	Iroquois Falls	48 45	80 40	259	62
-53.9	Jan. 05, 1959	Central Patricia	51 30	90 09	373	21
-52.2	Feb. 18, 1966	Graham A	49 16	90 35	503	18
	Dec. 27, 1933*	Hornepayne	49 14	84 48	329	50
-51.7	Jan. 23, 1935	White River	48 35	85 17	379	87
-51.1	Feb. 07, 1933	Ingolf	49 49	95 09	363	13
	Feb. 08, 1934	Pickle Lake	51 27	90 12	369	34
-50.6	Jan. 23, 1935	Franz	48 28	84 25	373	41
	Jan. 23, 1935	Oba	49 04	84 06	331	6
-50.0	Jan. 29, 1957	Armstrong A	50 17	88 54	320	36
	Jan. 10, 1942	Heaslip	47 48	79 50	222	35
	Dec. 30, 1953	Longlac	49 45	86 30	317	24
	Jan. 20, 1924	North Lake	48 08	90 34	479	20
	Jan. 29, 1946*	Waboose Dam	50 47	87 59	329	14
-49.4	Feb. 08, 1934	Abitibi Canyon	49 53	81 34	204	32
	Feb. 07, 1934	Quorn	49 25	90 54	445	41
-48.9	Feb. 15, 1939*	Atikokan CLI	48 44	91 38	391	54
	Feb. 07, 1934	Crystal Falls	46 27	79 52	227	51
	Jan. 15, 1972	Matheson	48 32	80 27	259	4
	Feb. 09, 1967	Mattice TCPL	49 35	83 10	233	10
	Jan. 24, 1935	Moose Factory	51 14	80 30	9	50
	Jan. 10, 1942	Ruel	47 18	81 27	410	38
-48.3	Jan. 01, 1974	Beardmore	49 37	87 57	305	3
	Feb. 12, 1967	Burchell Lake	48 37	90 35	465	4
	Dec. 29, 1933	Coniston	46 28	80 49	237	50
	Jan. 29, 1951	Kakabeka Falls	48 24	89 37	278	68
	Dec. 29, 1933	Madawaska	45 30	77 59	316	62
	Jan. 15, 1965	Pinard	49 51	81 36	232	13
	Feb. 01, 1962	Twin Falls	48 45	80 35	274	13
	Jan. 23, 1935	Wawaitin	48 21	81 24	271	51
-47.8	Feb. 08, 1934	Armstrong	50 17	89 09	342	5
	Dec. 29, 1933	Biscotasing	47 17	82 07	406	39
	Feb. 03, 1970	Geraldton	49 42	86 57	331	9
	Dec. 29, 1933	Gogama	47 40	81 43	355	1
	Jan. 19, 1943	Lansdowne House	52 14	87 53	256	34
	Dec. 30, 1953	Longlac P and P	49 46	86 32	343	18
	Jan. 23, 1935	Steep Hill Falls	48 04	84 48	335	19
	Jan. 28, 1951	Trout Lake	53 50	89 52	219	37

°C	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
-47.2	Dec. 13, 1943*	Chapleau	47 50	83 26	432	45
	Jan. 23, 1963	Foleyet	48 15	82 26	329	21
	Jan. 29, 1975	Fort Albany	52 13	81 40	15	8
	Feb. 03, 1970	Island Falls	49 35	81 22	218	50
	Jan. 24, 1935*	Kapuskasing	49 25	82 26	218	59
	Jan. 30, 1950	Kawene	48 44	91 12	454	11
	Jan. 30, 1950	Mine Centre	48 44	93 32	366	62
	Feb. 18, 1929*	Peterbell	48 36	83 19	316	2
	Jan. 22, 1935*	Smoky Falls	50 04	82 10	183	38
	Dec. 29, 1917	Turbine	46 23	81 34	206	63
-46.7	Feb. 11, 1914	Dryden	49 46	92 51	372	61
	Dec. 30, 1953	Geraldton Forestry	49 42	86 52	338	15
	Jan. 22, 1963	Island Falls	49 35	81 22	218	21
	Feb. 11, 1914*	Montreal River	47 07	79 29	183	56
	Jan. 15, 1948*	Moosonee	51 16	80 39	10	43
	Dec. 30, 1953	Nakina A	50 11	86 42	325	27
	Feb. 25, 1928	New Liskeard	47 30	79 40	194	49
	Jan. 29, 1957	Pagwa A	50 02	85 16	189	26
	Feb. 03, 1970	Raith TCPL 64	48 44	89 52	433	7
	Feb. 03, 1936	Womans Lake	51 11	92 51	391	2
-46.1	Feb. 12, 1967	Burks Falls	45 36	79 34	320	13
	Jan. 23, 1935	Cameron Falls	49 09	88 21	229	50
	Jan. 18, 1927*	Dyment	49 38	92 18	411	2
	Dec. 29, 1933	Magnetawan	45 40	79 38	280	34
	Feb. 08, 1951	McVitties	46 17	80 51	213	20
	Jan. 28, 1915	Oscar	49 15	90 46	486	1
	Feb. 11, 1914	Reserve 40	49 37	95 06	327	1
	Jan. 13, 1912	Ronville	45 15	78 57	316	19
	Feb. 11, 1914	Sioux Lookout	50 08	91 52	365	8
	Feb. 18, 1966	Sioux Lookout A	50 07	91 54	390	38
	Dec. 25, 1933	Sioux Narrows	49 29	93 58	411	9
	Feb. 08, 1934	Swains Lake	51 17	93 20	396	1
	Jan. 29, 1962*	Twin Falls	48 45	80 35	274	13
	Dec. 22, 1970	Winisk	55 16	85 13	12	4
-45.6	Feb. 12, 1967	Atikokan	48 45	91 37	393	10
	Jan. 06, 1912*	Cochrane	49 04	81 02	275	60
	Feb. 11, 1914	Dome	48 28	81 15	296	3
	Feb. 18, 1966	Ear Falls	50 38	93 13	361	36
	Jan. 16, 1972	Hunta	49 07	81 16	274	23
	Jan. 15, 1946*	Rat Rapids	51 12	90 14	375	19
	Jan. 25, 1934*	Red Lake	51 01	93 50	381	24
	Dec. 30, 1953	Stevens	49 32	85 51	325	5
	Feb. 01, 1962	Timmins A	48 34	81 22	295	21
	Feb. 09, 1951*	Upsala	49 03	90 28	484	24
	Dec. 29, 1933	Walkers Point	45 01	79 28	233	13

* Also at a later date

TABLE 3

GREATEST PRECIPITATION IN ANY ONE CLIMATOLOGICAL DAY ABOVE 130 mm

AMOUNT	DATE	STATION	LAT.N 0 '	LONG.W 0 '	ELEV. m	YEARS OF RECORD
181.6	Oct. 15, 1954	Snelgrove	43 45	79 50	251	9
178.3	Oct. 15, 1954	Brampton	43 41	79 46	220	28
175.3	Aug. 04, 1915	Kitchener	43 27	80 31	343	61
154.9	Sep. 30, 1959	Long Point	42 33	80 03	175	37
148.3	Oct. 15, 1954	Bradford 2	44 07	79 32	221	4
147.8	Jun. 23, 1944	Camp Borden A	44 19	79 54	233	12
147.3	Aug. 06, 1955	Orillia	44 37	79 24	224	76
146.1	Oct. 15, 1954	Pefferlaw	44 19	79 13	229	11
144.8	Jun. 27, 1971	Oshawa WPCP	43 52	78 50	84	7
144.3	Aug. 16, 1969	Hornby IHD	43 34	79 51	198	10
143.8	Oct. 15, 1954	Alloa	43 43	79 52	262	4
143.5	Aug. 19, 1883	Listowel	43 44	80 58	385	36
142.2	Aug. 16, 1969	Milton Kelso	43 30	79 57	244	10
139.2	Jul. 10, 1937	Minaki	49 58	94 40	325	16
138.7	Oct. 15, 1954	Toronto Leaside S	43 42	79 22	137	5
137.9	Jul. 05, 1883	Owen Sound	44 34	80 55	182	74
137.7	Oct. 15, 1954	Hornby	43 33	79 50	198	12
137.2	Aug. 31, 1961	Sandy Falls	48 31	81 26	262	12
134.6	Jul. 11, 1883	Putnam	43 00	80 57	266	3
133.4	Oct. 15, 1954	Broddytown	43 37	79 36	145	4
133.4	Jun. 23, 1944	Coldwater	44 42	79 40	183	58
133.4	Jun. 23, 1944	Fenelon Falls	44 32	78 44	253	45
133.4	Aug. 31, 1961	Timmins Ont Hydro	48 28	81 22	308	17
132.6	Oct. 15, 1954	Bradford	44 06	79 30	221	7
132.1	Aug. 23, 1870	Woodstock	43 07	80 45	299	106
131.8	Aug. 25, 1892	Kingston Queens U	44 15	76 30	104	85
130.6	Sep. 21, 1916	Rainy River	48 44	94 33	332	12
130.0	May 17, 1894	London South	42 59	81 13	246	49

TABLE 4

GREATEST MONTHLY PRECIPITATION TOTAL ABOVE 290 mm

AMOUNT	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
389.6	Jun. 1915	Mine Centre	48 44	92 32	366	61
353.1	Aug. 1915	Kitchener	43 27	80 31	343	61
337.8	Sep. 1941	Sioux Lookout A	50 07	91 54	390	38
337.1	Jun. 1967	Tavistock Con	43 19	80 50	343	9
336.8	Aug. 1964	Grand Bend Res Stn 5	43 13	81 28	262	2
333.5	Jul. 1970	La Cave	46 22	78 44	172	24
332.7	Jun. 1967	Sharon	44 06	79 27	262	23
315.0	Jul. 1970	Algonquin Park West	45 20	78 51	427	11
312.9	Jun. 1892	London South	42 59	81 13	246	49
310.9	Jul. 1870	Widder	43 15	81 46	183	2
310.1	Oct. 1955	Smithfield CDA	44 05	77 40	104	26
309.4	Jun. 1967	Fergus Shand Dam	43 44	80 20	418	37
308.4	Oct. 1971	Martin TCPL 60	49 17	91 14	471	7
308.1	May 1892	Pelee Island	41 46	82 41	181	74
299.7	Jan. 1924	Providence Bay	45 40	82 14	192	33
297.2	Oct. 1955	Belleville	44 09	77 24	76	72
296.4	Jun. 1930	Turbine	46 23	81 34	206	61
295.1	Jun. 1967	Holland Landing	44 06	79 29	259	5
293.9	May 1912	Haliburton	45 02	78 31	335	90
293.9	Sep. 1872	Point Clark	44 05	81 44	181	42
293.6	Sep. 1941	Armstrong	50 17	89 09	342	20
292.6	Aug. 1964	St. Williams	42 42	80 27	213	22

TABLE 5

GREATEST ANNUAL PRECIPITATION TOTAL ABOVE 1320 mm

AMOUNT	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
1620.3	1884	Stratford	43 23	81 00	363	83
1495.3	1880	Beatrice	45 08	79 23	290	101
1491.2	1928	Crystal Falls	46 27	79 52	227	54
1435.9	1932	Huntsville	45 19	79 15	290	50
1424.4	1910	Lindsay	44 20	78 45	266	91
1407.9	1868	Simcoe	42 51	80 21	221	58
1406.1	1928	Durham	44 10	80 50	339	49
1397.0	1928	Beatrice	45 08	79 23	290	101
1392.2	1883	Beatrice	45 08	79 23	290	101
1391.2	1978	Magnetawan	45 40	79 38	280	34
1391.2	1878	Pembroke	45 50	77 10	129	68
1387.1	1935	Steep Hill Falls	48 04	84 48	335	23
1386.3	1873	Point Clark	44 05	81 44	181	42
1383.0	1928	Walkerton	44 08	81 09	244	57
1367.8	1897	Bognor	44 40	80 50	250	17
1367.0	1891	Little Forks	48 33	93 42	---	3
1365.8	1967	Arthur	43 51	80 32	465	13
1363.7	1976	Owen Sound OWRC	44 35	80 56	179	12
1359.4	1928	Wiarton	44 45	81 08	182	50
1354.6	1976	Paisley	44 16	81 22	251	15
1350.8	1926	Steep Hill Falls	48 04	84 48	335	23
1347.2	1932	Steep Hill Falls	48 04	84 48	335	23
1345.2	1897	Uplands	45 48	79 25	---	27
1339.6	1972	Burks Falls	45 36	79 34	320	23
1331.5	1883	Pembroke	45 50	77 10	129	68
1326.6	1951	Southampton	44 30	81 21	200	104
1326.1	1938	Steep Hill Falls	48 04	84 48	335	23

TABLE 6

LEAST ANNUAL PRECIPITATION TOTAL BELOW 400 mm

AMOUNT	DATE	STATION	LAT.N ° '	LONG.W ° '	ELEV. m	YEARS OF RECORD
197.1	1919	Oshawa	43 53	78 52	101	22
253.7	1929	Whitefish Bay	49 29	93 58	411	32
265.2	1942	Heaslip	47 48	79 50	222	30
272.0	1916	Moose Factory	51 14	80 30	9	35
315.2	1928	North Lake	48 08	90 34	479	19
316.2	1930	Whitefish Bay	49 29	93 58	411	32
331.2	1930	Harrow CDA	42 02	82 54	191	59
338.1	1886	Kenora	49 48	94 32	336	40
340.6	1929	North Lake	48 08	90 34	479	19
346.7	1894	Nipigon	49 00	88 15	184	16
361.2	1894	Goderich Lighthouse	43 45	81 43	---	36
366.5	1940	Rat Rapids	51 12	90 14	375	19
371.9	1942	Whitefish Bay	49 29	93 58	411	32
378.4	1923	Moose Factory	51 14	80 30	9	35
378.2	1933	Harrow CDA	42 02	82 54	191	59
378.5	1896	Spence	45 33	79 39	---	5
379.2	1917	Port Arthur	48 26	89 13	195	64
383.3	1976	Kenora A	49 47	94 22	411	38
385.6	1895	Nipigon	49 00	88 15	184	16
388.1	1901	Sarnia	42 59	92 24	179	37
391.9	1952	Kenora A	49 48	94 22	411	38
393.2	1929	Sioux Lookout	50 08	91 52	365	18
394.5	1926	Lac Seul	50 17	92 12	352	21
397.5	1925	Lac Seul	50 17	92 12	352	21
399.0	1930	North Lake	48 08	90 34	479	19

TABLE 7

Temperature Extremes

Area	Highest °C	Place	Date
Canada	45	Midale, Sask. Yellowgrass, Sask.	July 5, 1937 July 5, 1937
North America	57	Death Valley, Calif., U.S.A.	July 10, 1913
World	58	El Azizia, Libya	Sep. 13, 1922

Area	Lowest °C	Place	Date
Canada	-63	Snag, Yukon	Feb. 3, 1947
North America	-63	Snag, Yukon, Can.	Feb. 3, 1947
World	-88	Vostak, Antarctica	Aug. 24, 1960

Precipitation Extremes

Area	24-hour (mm)	Place	Date
Canada	489.2	Ucluelet Brynnor Mines, B.C.	Oct. 6, 1967
North America	983.0	Yankeetown, Fla., U.S.A.	Sep. 5, 1950
World	1869.9	Cilaos, La Réunion I.	Mar. 15-16, 1952

Area	Monthly Maximum (mm)	Place	Date
Canada	2235.5	Swanson Bay, B.C.	Nov. 1917
North America	2235.5	Swanson Bay, B.C., Can.	Nov. 1917
World	9300.0	Cherrapunji, India	July 1881

Area	Yearly Maximum (mm)	Place	Date
Canada	8122.4	Henderson Lake, B.C.	1931
North America	8122.4	Henderson Lake, B.C., Can.	1931
World	26461.2	Cherrapunji, India	Aug.1860 - July 1861

Area	Yearly Minimum (mm)	Place	Date
Canada	12.7	Arctic Bay, N.W.T.	1949
North America	0.0 0.0	Bagdad, Calif., U.S.A. Death Valley, Calif., U.S.A.	1913 1929
World	0.0	Iquique, Chile	No rain for 14 consecutive years