

Highlight of the month at Winnipeg, Manitoba - January 1993

The mean temperature for the month was -16.6 degrees, 2.7 degrees above the normal of -19.3. However, the first half of the month was a continuation of the cold that had persisted through the Christmas period, while the last half of the month was much milder, ending with record setting temperatures. The mean temperature for the first half of the month was -21.6, while the mean for the last half of the month was -11.9 degrees.

Three temperature records were broken late in the month. They were a high maximum of 5.1 on the 30th, and high minima of -6.4 and -5.8 on the 30th and 31st respectively.

The precipitation total of 14.0 mm was about 66% of normal. The snowfall total of 18.4 cm was 78% of the normal January snowfall (23.7 cm). The snowfall total since November 1st is 98.6 cm, approximately 150% of the normal of 66.3 cm.

Sunshine was above normal by 6.6 hours. This might not seem like much until you realize that the 12 month period from January to December of 1992 ranks as the 5th cloudiest on record. Finally, a few extra rays of sunlight have come our way!

DEGREE DAYS SUMMARY FOR: WINNIPEG INT'L AIRPORT ON JANUARY 1993

DAY	MEAN TEMP	ABOVE + 24	ABOVE + 18	ABOVE + 5	ABOVE ZERO	BELOW ZERO	BELOW ZERO	BELOW + 18
1	-28.2					28.2	46.2	
2	-15.6					15.6	33.6	
3	-18.6					18.6	36.6	
4	-21.8					21.8	39.8	
5	-21.1					21.1	39.1	
6	-23.2					23.2	41.2	
7	-26.6					26.6	44.6	
8	-31.5					31.5	49.5	
9	-30.8					30.8	48.8	
10	-27.1					27.1	45.1	
11	-14.5					14.5	32.5	
12	-9.5					9.5	27.5	
13	-15.0					15.0	33.0	
14	-19.3					19.3	37.3	
15	-21.0					21.0	39.0	
16	-15.5					15.5	33.5	
17	-18.9					18.9	36.9	
18	-15.8					15.8	33.8	
19	-11.9					11.9	29.9	
20	-6.5					6.5	24.5	
21	-3.8					3.8	21.8	
22	-6.9					6.9	24.9	
23	-11.3					11.3	29.3	
24	-18.8					18.8	36.8	
25	-16.5					16.5	34.5	
26	-15.1					15.1	33.1	
27	-15.3					15.3	33.3	
28	-19.2					19.2	37.2	
29	-14.0					14.0	32.0	
30	-0.7					0.7	18.7	
31	-0.7					0.7	18.7	
TOTAL		ABOVE + 24 0.0	ABOVE + 18 0.0	ABOVE + 5 0.0	ABOVE ZERO 0.0	BELOW ZERO 514.7	BELOW + 18 1072.7	

PEAK WIND
DIR. SPEED TIME

DIR.	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
D	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
A	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Y	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
O	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
F	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
M	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
T	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
H	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
17	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
18	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
19	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
20	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
21	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
22	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
23	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
25	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
26	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
27	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
28	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
29	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
30	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
31	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23

NUMBER OF HOURS	523	410	243	129	98	61	25	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUMBER OF DAYS	29	27	23	16	12	8	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MAX CONSECUTIVE HOURS	95	76	65	57	39	24	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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IN KM/HR

DEU POINT SUMMARY
 SUMMAIRE DES TEMPERATURES DE ROSEE

WINNIPEG INT'L AIRPORT

JANUARY 1993
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HOUR ->	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MEAN
D	-361	-364	-366	-367	-366	-370	-367	-364	-376	-383	-359	-349	-348	-337	-331	-325	-321	-319	-310	-312	-307	-308	-302	-296	-342
A	-285	-271	-251	-234	-223	-204	-194	-182	-174	-164	-152	-139	-127	-119	-110	-100	-99	-100	-101	-114	-148	-158	-162	-162	-166
T	-161	-153	-153	-157	-157	-184	-185	-221	-222	-234	-252	-251	-249	-252	-251	-251	-252	-264	-261	-261	-260	-265	-270	-275	-227
E	-276	-294	-305	-307	-309	-307	-312	-298	-301	-294	-296	-296	-237	-244	-240	-237	-227	-225	-231	-226	-220	-213	-206	-213	-261
5	-212	-222	-226	-242	-243	-241	-240	-241	-237	-238	-232	-221	-225	-235	-245	-249	-254	-260	-271	-275	-280	-276	-277	-295	-247
6	-302	-306	-318	-313	-311	-313	-308	-297	-284	-271	-260	-263	-264	-262	-263	-262	-267	-271	-264	-264	-268	-262	-269	-271	-281
7	-283	-289	-302	-309	-320	-317	-306	-329	-323	-328	-305	-278	-292	-280	-291	-297	-284	-303	-303	-305	-322	-331	-340	-348	-308
8	-336	-351	-354	-354	-354	-364	-363	-385	-371	-388	-367	-364	-353	-339	-335	-337	-339	-343	-348	-362	-367	-381	-353	-358	-358
9	-356	-362	-383	-387	-392	-392	-396	-397	-379	-388	-366	-338	-345	-303	-311	-339	-357	-362	-372	-373	-374	-374	-366	-364	-363
10	-373	-374	-385	-380	-385	-385	-389	-386	-389	-385	-383	-321	-305	-296	-298	-289	-287	-277	-278	-275	-275	-266	-259	-240	-330
11	-227	-222	-211	-207	-202	-193	-186	-180	-172	-167	-167	-163	-158	-153	-148	-137	-131	-126	-121	-123	-124	-125	-125	-124	-164
12	-123	-120	-119	-118	-117	-117	-118	-116	-115	-115	-118	-114	-110	-103	-102	-109	-106	-105	-105	-109	-114	-118	-122	-114	-114
13	-123	-126	-127	-133	-137	-153	-155	-161	-174	-188	-181	-184	-192	-203	-206	-210	-216	-226	-240	-237	-228	-220	-215	-210	-185
14	-207	-205	-204	-209	-215	-219	-237	-242	-252	-262	-256	-236	-221	-224	-217	-211	-222	-226	-234	-248	-246	-255	-262	-262	-232
15	-263	-283	-289	-292	-294	-295	-291	-285	-287	-289	-269	-258	-243	-246	-230	-222	-221	-223	-217	-208	-207	-209	-206	-211	-252
16	-214	-221	-226	-238	-238	-228	-227	-216	-214	-210	-213	-188	-157	-143	-140	-142	-152	-162	-167	-194	-202	-214	-225	-227	-198
17	-229	-232	-244	-256	-267	-268	-284	-279	-278	-283	-270	-254	-249	-238	-228	-222	-212	-215	-208	-207	-206	-199	-190	-182	-238
18	-182	-188	-193	-195	-203	-213	-217	-226	-221	-223	-215	-211	-205	-198	-195	-194	-206	-215	-220	-222	-227	-234	-232	-236	-211
19	-241	-237	-240	-241	-243	-241	-242	-241	-241	-232	-221	-204	-189	-149	-136	-111	-92	-85	-79	-67	-59	-64	-57	-62	-166
20	-58	-58	-77	-89	-106	-110	-112	-117	-108	-107	-112	-105	-101	-102	-102	-102	-105	-103	-103	-106	-110	-108	-98	-86	-99
21	-89	-89	-84	-74	-65	-65	-63	-61	-63	-63	-61	-60	-59	-59	-59	-58	-55	-56	-57	-60	-62	-46	-46	-49	-63
22	-41	-41	-40	-52	-59	-66	-71	-76	-87	-88	-87	-88	-88	-84	-83	-82	-85	-96	-97	-121	-119	-131	-138	-139	-86
23	-126	-127	-136	-147	-144	-148	-153	-160	-153	-142	-150	-148	-139	-133	-127	-124	-126	-133	-142	-145	-154	-158	-164	-172	-144
24	-170	-185	-199	-181	-185	-181	-186	-183	-181	-176	-180	-185	-220	-216	-219	-222	-226	-232	-236	-241	-231	-235	-249	-250	-207
25	-263	-270	-264	-261	-266	-252	-256	-248	-244	-231	-223	-212	-202	-192	-190	-188	-182	-171	-157	-145	-146	-122	-116	-110	-205
26	-107	-103	-103	-110	-109	-113	-112	-113	-114	-142	-150	-159	-168	-172	-180	-180	-187	-216	-227	-219	-221	-239	-244	-240	-164
27	-245	-241	-226	-228	-240	-235	-226	-220	-217	-208	-196	-181	-168	-151	-140	-125	-117	-116	-103	-100	-102	-131	-170	-167	-177
28	-170	-175	-182	-197	-226	-231	-241	-263	-284	-283	-278	-274	-268	-258	-246	-252	-261	-266	-267	-270	-272	-272	-271	-247	-247
29	-273	-271	-269	-261	-246	-233	-242	-266	-256	-243	-234	-201	-179	-166	-153	-133	-134	-117	-110	-95	-93	-88	-92	-88	-185
30	-85	-77	-73	-61	-59	-56	-53	-63	-62	-56	-44	-33	-27	-15	-10	-7	-5	-5	-3	-3	-3	-3	-3	-3	-34
31	-3	-4	-4	-5	-5	-7	-8	-12	-15	-20	-17	-15	-14	-12	-13	-13	-14	-19	-26	-33	-48	-55	-49	-60	-20

MEAN -206 -209 -211 -213 -215 -216 -217 -220 -219 -214 -202 -198 -190 -187 -184 -185 -188 -189 -191 -193 -195 -196 -197 -202
 MOYENNE

*TEMPERATURES IN TENTHS OF DEGREES CELSIUS
 *TEMPERATURES EN DIXIEME DEGRES CELSIUS

Temperature/Temperature Precipitation/Precipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						
	VALUE RELEVÉ	DAY JOUR	VALUE RELEVÉ	DAY JOUR		HIGHEST EVER MAXIMUM ABSOLU			LOWEST EVER MINIMUM ABSOLU			
						VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE (MAXIMUM) TEMPÉRATURE MAXIMALE	5.1	30	4.4	29		7.8	23	1942				121
LOWEST TEMPERATURE (MINIMUM) TEMPÉRATURE MINIMALE	-35.3	9	-31.3	18					-44.4	15	1877	121
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	-16.6		-11.5		-18.3	-10.6		1944	-26.9		1875	121
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	TR		0.2		0.3	3.8		1944	0.0		1979	121
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	18.4		15.0		22.6	85.3		1916	2.8		1973	121
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	14.0		14.0		19.3	85.3		1916	2.5		1973	121
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE	10		10		12	20		1954	3		1973	121
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	TR	SV	0.2	30		3.8	20	1944				121
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	5.0	27	6.8	22		31.8	2	1907				121
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	4.4	27	6.6	22		31.8	2	1907				121
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:												
5 MINUTES	TR	SVRL	0.2	30								
10 MINUTES	TR	SVRL	0.2	30								
15 MINUTES	TR	SVRL	0.2	30								
30 MINUTES	TR	SVRL	0.2	30								
60 MINUTES	TR	SVRL	0.2	30								
24 CONSECUTIVE HOURS HEURES CONSÉCUTIVES	TR	SVRL	0.2	30		3.8	20	1944				121
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)	16.6		20.1		18.0	22.9		1943	12.6		1979	72
MAXIMUM SPEED (2 min. mean) (km/h) VITESSE MAXIMALE (moyenne sur 2 min.) (km/h)	S 50	19	S 59	3		N 79	13	1942				54
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	S 65	19	S 78	3		SSE106	26	1982				46
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION	127.8		90.7		119.7	160.3		1959	63.5		1931	111
MEAN STATION PRESSURE (hPa) PRESSION MOYENNE À LA STATION (hPa)	99.16		98.56		98.87	99.72		1966	98.06		1990	54
GREATEST STATION PRESSURE (hPa) PRESSION MAXIMALE À LA STATION (hPa)	101.53	9	100.13	18		102.07	10	1949				54
LEAST STATION PRESSURE (hPa) PRESSION MINIMALE À LA STATION (hPa)	97.29	16	96.61	22					94.81	14	1947	54

CLIMATOLOGICAL DATA THIS MONTH FOR THE PAST DONNÉES CLIMATOLOGIQUES CE MOIS-CI POUR LES DERNIÈRES ANNÉES

YEAR ANNÉE	MAXIMUM TEMP MAXIMALE	MINIMUM TEMP MINIMALE	MEAN TEMP TEMP MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECP TOTALE	MEAN WIND SPEED VITESSE MOYENNE DES VENTS	MAXIMUM WIND SPEED VITESSE MAXIMALE DES VENTS	SUNSHINE HEURES INSOLATION	HEATING DEGREES-DAYS DE CHAUFFE	CROWING DEGREES-DAYS DE CROISSANCE	COOLING DEGREES-DAYS DE REFRIGERATION	SNOWFAL SEPT. 1
1984	4.3	-33.1	-16.7	0.0	16.2	12.2	16.0	SSE 43	125.6	1074.8	0.0	0.0	44.7
1985	0.9	-37.0	-17.8	TR	14.2	11.1	17.4	NNW 61	121.8	1109.5	0.0	0.0	69.6
1986	7.3	-33.7	-13.1	0.6	10.4	9.6	15.5	NW 70	99.7	964.0	0.0	0.0	85.0
1987	5.7	-35.4	-11.8	TR	11.0	10.4	15.2	SSE 63	99.2	923.4	0.0	0.0	65.4
1988	1.0	-33.0	-13.1	0.4	10.2	8.8	15.9	NNW 46	120.3	1123.7	0.0	0.0	31.8
1989	2.2	-35.7	-15.8	TR	58.3	52.2	17.2	NNE 54	107.8	1047.6	0.0	0.0	124.0
1990	5.1	-32.4	-11.6	0.8	26.0	24.4	16.2	NW 69	103.2	918.0	0.0	0.0	63.6
1991	2.4	-37.3	-18.9	0.4	16.6	15.2	15.1	SSW 48	139.3	1142.8	0.0	0.0	52.7
1992	4.4	-31.3	-11.5	0.2	15.0	14.0	20.1	S 59	90.7	913.1	0.0	0.0	86.8
1993	5.1	-35.3	-16.6	TR	18.4	14.0	16.6	S 50	127.8	1072.7	0.0	0.0	99.8

Note/Arb: 1. Climatological Day/Journée climatologique 00 01 C.S.T. - 23 00 C.S.T.
 2. Normal/Normale 1951-1980
 3. Extremes for period of record/Extrêmes pour la période de registre
 4. Maximum rainfall recorded in may overlap calendar days/Hauteur de pluie maximale enregistrée en peut-être pour plus d'une journée du calendrier
 5. ** Indicates most recent occurrence/Indique le plus récent
 6. * Indicates first of more than one occurrence/Indique le premier de plusieurs