

DAILY WEATHER SUMMARY FOR DECEMBER, 1997 AT WINNIPEG, MANITOBA

1. Variable cloudiness with freezing drizzle near midnight. Maximum temperature above normal, minimum well above normal. Winds light to moderate.
2. Overcast with early morning freezing drizzle and evening flurries. Maximum temperature slightly above normal, minimum well above normal. Winds light.
3. Variable cloudiness with flurries. Maximum temperature above normal, minimum well above normal. Winds light, increasing to moderate by mid evening.
4. Overcast with snow. Maximum temperature near normal, minimum well above normal. Winds moderate.
5. Overcast with snow ending early morning. Maximum temperatures slightly above normal, minimum well above normal. Winds moderate decreasing to light overnight.
6. Mainly cloudy with flurries. Maximum temperature above normal, minimum well above normal. Winds light.
7. Overcast. Maximum temperature above normal, minimum well above normal. Winds light.
8. Overcast with afternoon flurries. Maximum temperature above normal, minimum well above normal. Winds light.
9. Overcast with snow. Maximum temperature above normal, minimum well above normal. Winds light.
10. Variable cloudiness with snow ending late afternoon. Maximum temperature above normal, minimum slightly above normal. Winds light with occasional moderate early evening.
11. Variable cloudiness with a brief morning flurry. Maximum temperature above normal, minimum slightly above normal. Winds light increasing to moderate by early evening.
12. Variable cloudiness. Temperatures well above normal. Winds light to moderate.
13. Variable cloudiness. Temperatures well above normal. Winds light.
14. Variable cloudiness. Temperatures well above normal. Winds light increasing to moderate late afternoon.
15. Mainly cloudy. Temperatures well above normal. Winds light to moderate.
16. Mainly sunny. Temperatures well above normal. Winds moderate decreasing to light by early morning.
17. Variable cloudiness with an afternoon rain shower. Temperatures well above normal. Winds light to moderate.
18. Clear becoming overcast by mid morning. Temperatures well above normal. Winds mostly light increasing to moderate overnight.
19. Variable cloudiness with brief flurries. Maximum temperature above normal, minimum well above normal. Winds moderate decreasing to light overnight.
20. Mainly sunny. Temperatures well above normal. Winds light increasing to moderate late morning.
21. Clear overnight with clouds increasing to overcast by early afternoon. Temperatures well above normal. Winds moderate.
22. Mainly sunny. Temperatures well above normal. Winds light.
23. Variable cloudiness. Temperatures well above normal. Winds light to moderate.
24. Mainly sunny becoming overcast overnight. Temperatures well above normal. Winds light occasionally moderate early evening.
25. Variable cloudiness with a brief afternoon flurry. Temperatures well above normal. Winds light but moderate in the afternoon.
26. Variable cloudiness with morning flurries. Temperatures well above normal. Winds light to moderate.
27. Variable cloudiness. Temperatures well above normal. Winds light to moderate.
28. Overcast with light snow. Maximum temperature above normal, minimum well above normal. Winds moderate decreasing to light by early morning.
29. Overcast with afternoon flurries. Maximum temperature above normal, minimum well above normal. Winds light.
30. Overcast with overnight flurries becoming mainly sunny early morning. Maximum temperature slightly above normal, minimum slightly below normal. Winds moderate decreasing to light late afternoon.
31. Clear becoming overcast by late morning. Light snow early afternoon. Maximum temperature slightly above normal, minimum slight below normal. Winds light increasing to moderate early morning then decreasing to light overnight.

Hourly Relative Humidity at:
Humidite Horaire a:

Winnipeg Int'l Airport

December 1997
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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	25	Mean
D 1	83	85	83	83	84	82	85	83	84	85	84	85	84	85	84	85	84	83	85	85	85	86	85	86	87	84
A 2	93	95	95	93	94	95	95	94	93	94	93	90	88	85	82	83	87	87	88	84	89	89	88	88	85	89
T 3	81	82	85	81	81	80	80	80	79	87	81	76	74	73	72	74	86	88	90	92	90	88	87	86	82	82
E 4	87	88	88	88	88	84	83	83	83	81	75	81	83	78	80	83	80	84	84	85	84	85	86	85	84	84
5	85	86	87	87	87	91	92	94	94	94	94	90	90	90	92	92	92	93	93	94	95	94	95	95	92	92
6	95	91	93	91	92	92	93	92	93	93	93	93	93	93	91	88	88	89	90	91	90	88	88	88	89	92
7	95	94	94	94	94	94	93	91	91	93	91	93	94	94	92	92	92	92	92	92	92	92	90	90	91	90
8	83	83	84	86	86	87	90	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	90
9	92	92	91	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
10	92	92	92	92	92	91	92	91	92	92	92	92	92	92	91	91	90	90	90	90	90	90	90	90	90	90
11	91	90	88	89	89	89	86	86	83	81	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	84
12	76	72	76	76	75	74	75	76	80	84	80	84	80	84	80	80	76	76	74	74	74	73	75	75	78	78
13	82	86	88	88	88	89	88	88	88	86	84	84	84	84	79	80	78	78	74	74	74	74	77	77	81	83
14	89	89	89	89	89	88	85	87	90	85	83	83	83	83	74	70	70	70	70	70	70	70	70	70	70	75
15	69	64	64	64	60	56	53	58	59	55	59	55	56	56	58	57	59	60	60	61	61	61	61	61	61	62
16	80	80	77	74	70	68	70	71	74	79	79	71	68	65	62	65	66	72	83	84	86	86	86	85	88	75
17	88	85	85	85	85	86	88	89	87	87	87	83	81	78	74	75	85	97	83	83	83	83	79	74	88	83
18	70	76	74	74	76	80	87	89	87	89	83	82	81	82	83	82	84	82	81	82	82	81	81	79	75	81
19	76	92	75	75	81	87	87	89	89	85	83	79	76	75	75	75	78	80	86	88	86	86	80	80	81	81
20	82	83	86	86	86	86	88	87	86	86	76	72	69	65	64	67	72	71	75	75	79	82	84	84	79	79
21	86	89	90	89	88	88	90	88	86	86	84	81	83	83	82	79	78	77	76	76	75	77	81	81	83	83
22	80	80	82	82	85	88	92	92	92	90	88	86	82	79	75	69	78	85	87	87	87	80	83	85	85	83
23	82	79	82	83	85	85	85	85	83	83	81	77	73	71	67	60	62	64	67	69	71	74	76	75	75	75
24	75	74	78	82	83	83	83	84	84	87	89	80	76	68	64	67	76	82	85	82	82	79	73	77	79	79
25	73	76	80	83	83	89	88	86	83	83	81	77	73	82	87	81	80	80	79	81	82	83	81	80	81	81
26	79	82	85	71	70	66	71	76	76	78	76	71	67	70	72	71	70	75	82	80	78	76	77	78	78	75
27	79	78	78	81	83	86	87	87	89	89	88	87	84	80	80	80	85	88	88	88	88	87	88	84	84	85
28	86	88	88	90	90	88	90	90	90	91	89	81	81	81	85	80	85	86	86	90	90	90	90	90	90	87
29	92	92	92	92	90	89	89	89	92	91	89	88	88	87	87	85	88	88	89	90	91	90	90	90	90	89
30	87	86	85	87	86	82	80	80	81	82	80	79	75	75	70	72	64	66	64	64	65	67	65	68	75	75
31	65	68	68	66	65	64	64	64	65	66	62	69	73	73	77	77	81	88	86	87	88	88	89	89	89	74
Mean	83	84	84	84	84	84	85	84	85	84	82	80	79	77	77	78	80	82	82	83	83	82	83	83	83	82
Moyenne																										

Note/AVIS: 1. Climatological Day/Journee Climatologique 0001 C.S.T. - 0000 C.S.T.
2. Hours are C.S.T./les heures sont a l'heure normale de la localite
3. Unit/Unite = percent/pour cent

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 1	-68	-68	-66	-67	-66	-59	-53	-48	-45	-42	-43	-42	-42	-42	-43	-42	-43	-43	-40	-40	-40	-41	-41	-41	-40	-49
A 2	-34	-32	-33	-34	-37	-34	-36	-36	-38	-43	-46	-49	-47	-49	-53	-51	-47	-47	-48	-54	-49	-48	-52	-55	-45	-45
T 3	-60	-59	-57	-62	-61	-64	-67	-67	-69	-60	-65	-65	-69	-65	-70	-59	-71	-85	-92	-86	-88	-91	-93	-72	-72	
E 4	-92	-94	-88	-81	-80	-84	-91	-99	-105	-107	-116	-103	-97	-103	-99	-92	-96	-95	-100	-103	-100	-99	-100	-97	-98	
5	-92	-88	-83	-86	-78	-74	-71	-70	-68	-67	-63	-59	-59	-59	-56	-54	-55	-54	-52	-50	-48	-47	-47	-46	-65	
6	-46	-54	-53	-54	-54	-53	-53	-55	-54	-54	-53	-51	-52	-51	-49	-49	-53	-62	-65	-70	-84	-69	-62	-61	-58	
7	-60	-60	-56	-56	-56	-54	-52	-56	-52	-50	-52	-55	-56	-56	-56	-57	-60	-65	-66	-67	-67	-67	-67	-67	-59	
8	-62	-68	-71	-72	-72	-73	-78	-77	-82	-79	-80	-78	-78	-80	-83	-82	-82	-82	-79	-75	-70	-70	-73	-78	-77	
9	-82	-84	-88	-88	-87	-85	-84	-81	-77	-74	-71	-68	-67	-65	-63	-61	-64	-67	-67	-67	-62	-61	-59	-60	-73	
10	-62	-63	-64	-64	-67	-69	-66	-65	-63	-61	-56	-49	-45	-55	-67	-77	-70	-68	-93	-108	-120	-143	-135	-135	-79	
11	-144	-146	-140	-99	-92	-107	-80	-81	-83	-85	-84	-82	-80	-78	-77	-80	-85	-86	-90	-88	-90	-84	-77	-70	-92	
12	-65	-61	-52	-40	-38	-40	-42	-46	-53	-58	-54	-46	-34	-34	-26	-26	-28	-30	-33	-30	-30	-29	-31	-34	-40	
13	-51	-63	-72	-75	-81	-86	-88	-147	-78	-67	-58	-49	-44	-38	-35	-34	-32	-28	-27	-39	-39	-29	-30	-35	-56	
14	-34	-48	-45	-47	-53	-54	-52	-61	-61	-59	-58	-50	-40	-37	-34	-26	-19	-23	-32	-37	-41	-40	-49	-52	-45	
15	-54	-53	-54	-54	-54	-54	-51	-47	-42	-43	-41	-35	-26	-22	-18	-18	-20	-18	-16	-15	-14	-14	-16	-17	-34	
16	-20	-20	-29	-43	-55	-62	-67	-71	-73	-72	-67	-55	-52	-55	-51	-53	-64	-64	-80	-92	-82	-79	-73	-71	-61	
17	-70	-66	-57	-49	-46	-42	-41	-41	-47	-47	-43	-37	-29	-19	-18	-19	-10	9	-8	-9	-10	-11	-9	-10	-31	
18	-17	-22	-22	-26	-25	-34	-38	-36	-36	-32	-27	-30	-35	-36	-41	-42	-48	-52	-55	-57	-64	-68	-75	-86	-43	
19	-89	-68	-99	-107	-115	-124	-125	-128	-110	-103	-95	-92	-87	-81	-82	-82	-75	-73	-86	-78	-74	-122	-97	-113	-97	
20	-99	-114	-125	-128	-126	-136	-141	-138	-138	-125	-115	-99	-89	-81	-71	-71	-65	-66	-73	-80	-81	-82	-80	-82	-101	
21	-82	-81	-80	-79	-76	-75	-73	-71	-71	-71	-66	-57	-54	-53	-50	-45	-45	-49	-53	-53	-53	-54	-49	-49	-63	
22	-47	-49	-47	-41	-49	-59	-68	-78	-80	-85	-72	-52	-53	-46	-57	-55	-60	-61	-84	-87	-75	-72	-84	-83	-65	
23	-92	-94	-95	-96	-98	-101	-101	-101	-100	-96	-89	-77	-66	-56	-42	-56	-57	-59	-61	-63	-70	-74	-71	-79	-79	
24	-67	-68	-70	-76	-73	-66	-72	-71	-71	-80	-71	-55	-47	-46	-48	-47	-54	-64	-69	-55	-55	-58	-71	-69	-64	
25	-78	-78	-77	-87	-90	-92	-110	-105	-104	-94	-78	-65	-53	-41	-34	-38	-43	-47	-44	-43	-52	-47	-49	-45	-67	
26	-42	-42	-54	-91	-116	-150	-155	-160	-166	-170	-168	-171	-174	-164	-157	-158	-158	-157	-153	-147	-142	-133	-123	-123	-139	
27	-116	-109	-103	-105	-104	-100	-97	-95	-94	-90	-84	-78	-72	-69	-64	-60	-63	-68	-72	-78	-80	-82	-78	-79	-85	
28	-82	-78	-82	-77	-77	-74	-74	-77	-89	-94	-88	-93	-95	-82	-82	-82	-82	-83	-83	-82	-81	-77	-77	-84	-84	
29	-77	-92	-81	-78	-93	-95	-96	-95	-97	-101	-101	-100	-101	-101	-99	-93	-96	-97	-93	-85	-83	-83	-82	-98	-93	
30	-106	-118	-129	-150	-170	-172	-181	-187	-185	-184	-189	-193	-194	-194	-206	-206	-230	-250	-258	-266	-284	-283	-289	-281	-205	
31	-290	-289	-289	-284	-273	-274	-269	-262	-251	-243	-242	-221	-206	-193	-175	-172	-152	-133	-129	-130	-125	-121	-117	-116	-207	
Mean	-78	-79	-80	-82	-84	-86	-87	-90	-88	-86	-83	-77	-73	-71	-69	-69	-70	-75	-77	-77	-78	-77	-78	-78	-79	
Moyenne																										

*Temperatures In Tenths of Degrees Celsiusus
*Temperatures En Dixieme Degres Celsiusus

COMPARATIVE RECORDS AT: **WINNIPEG INT'L AIRPORT** December 1997
 RELEVÉS COMPARATIFS À: **December 1997**
Décembre 1997

		THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						NO OF YEARS NO D'ANNÉES
		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	*CELSIUS	5.7	14	-0.4	11		11.7	6	1939				125
LOWEST TEMPERATURE (MINIMUM) TEMPÉRATURE MINIMALE	*CELSIUS	-25.0	30	-37.0	24					-47.8	24	1879	125
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE	*CELSIUS	-5.3		-18.3		-14.6	-3.4		1877	-25.9		1879	125
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE	Millimètres (mm) Millimètres (mm)	TR		1.0		1.6	23.4		1877	0.0		1990	125
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE	Centimètres (cm) Centimètres (cm)	7.3		42.8		20.1	101.3		1909	0.5		1877	125
TOTAL MONTHLY PRECIPITATION PRÉCIPITATION TOTALE MENSUELLE	Millimètres (mm) Millimètres (mm)	4.1		40.2		18.6	101.3		1909	2.5		1892	125
NUMBER OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRÉCIPITATION MESURABLE		1		11		11	17		1955	2		SVRL	125
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE	Millimètres (mm) Millimètres (mm)	TR	1	1.0	31		21.8	2	1982				125
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE	Centimètres (cm) Centimètres (cm)	1.2	9	11.0	8		30.5	26	1916				125
GREATEST PRECIPITATION IN ONE DAY PRÉCIPITATION MAXIMALE EN UNE JOURNÉE	Millimètres (mm) Millimètres (mm)	1.0	6	10.8	11		30.5	26	1916				125
MAXIMUM RAINFALL RECORDED IN HAUTEUR DE PLUIE ENREGISTRÉE EN													
5 MINUTES	Millimètres (mm) Millimètres (mm)	M	M	M	M		2.0	2	1982				44
10 MINUTES	Millimètres (mm) Millimètres (mm)	M	M	M	M		3.8	2	1982				44
15 MINUTES	Millimètres (mm) Millimètres (mm)	M	M	M	M		4.0	2	1982				44
30 MINUTES	Millimètres (mm) Millimètres (mm)	M	M	M	M		4.3	2	1982				44
1 HOUR	Millimètres (mm) Millimètres (mm)	M	M	M	M		7.8	2	1982				44
24 CONSECUTIVE HOURS HEURES CONSÉCUTIVES	Millimètres (mm) Millimètres (mm)	TR	1	1.0	31		15.2	22	1877				125
MEAN WIND SPEED (KMH) VITESSE MOYENNE DU VENT (KMH)		16.5		17.6		17.0	24.6		1943	12.5		1978	76
MAXIMUM WIND SPEED (2 MIN MEAN) (KMH) VITESSE MAXIMALE (MOYENNE SUR 2 MIN.) (KMH)		S 39	27	N 48	17		NNE 78	VRL	SVRL				58
MAXIMUM GUST SPEED (KMH) POINTE DU VENT MAXIMALE (KMH)		S 61	31	N 63	17		NNE100	11	1946				50
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES D'INSOLATION		0.0		67.1		98.6	141.8		1989	31.7		1920	115
MEAN STATION PRESSURE (hPa) PRESSION MOYENNE À LA STATION (hPa)		98.45		98.80		98.79	99.26		1983	98.29		1953	58
GREATEST STATION PRESSURE (hPa) PRESSION MAXIMALE À LA STATION (hPa)		99.80	11	100.28	23		101.77	8	1982				58
LEAST STATION PRESSURE (hPa) PRESSION MINIMALE À LA STATION (hPa)		96.88	17	96.43	6					94.71	17	1967	58

CLIMATOLOGICAL DATA THIS MONTH FOR THE PAST 10 YEARS

DONNÉES CLIMATOLOGIQUES CE MOIS-CI POUR LES 10 DERNIÈRES ANNÉES

YEAR ANNÉE	MAXIMUM TEMPERATURE TEMPÉRATURE MAXIMALE	MINIMUM TEMPERATURE TEMPÉRATURE MINIMALE	MEAN TEMPERATURE TEMPÉRATURE MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECP TOTAL	MEAN WIND SPEE VITESSE MOYENNE DES VENTS	MAXIMUM WIND SPEED VITESSE MAXIMALE DES VENTS	SUNSHINE HOURS HEURES INSOLATION	HEATING DEGREE DAYS DEGRÉS-JOURS DE CHAUFFE	GROWING DEGREE DAYS DEGRÉS-JOURS DE CROISSANCE	COOLING DEGREE DAYS DEGRÉS-JOURS DE REFRIGERATION	S.A.S. A.S.N.
1988	6.5	-30.4	-12.8	TR	26.7	22.5	17.2	S 37	100.3	955.3	0.0	0.0	66.1
1989	4.3	-37.0	-19.8	0.2	19.8	17.0	14.6	NNW 48	141.8	1172.2	0.0	0.0	44.5
1990	5.4	-35.3	-16.4	0.0	27.1	24.1	18.1	S 52	119.3	1064.0	0.0	0.0	44.7
1991	3.0	-30.8	-10.9	0.8	31.2	32.0	25.6	WNW 67	84.5	896.2	0.0	0.0	100.0
1992	0.5	-33.9	-16.6	TR	40.4	29.2	19.2	WNW 63	81.6	1070.7	0.0	0.0	93.8
1993	0.2	-32.6	-16.2	TR	15.2	13.0	17.9	NNW 54	65.8	952.0	0.0	0.0	42.0
1994	6.9	-27.8	-10.8	0.2	18.0	17.8	16.9	NNE 66	98.2	897.3	0.0	0.0	41.4
1995	-0.1	-37.0	-16.4	TR	20.5	19.1	17.4	WSW 78	92.7	1068.3	0.0	0.0	81.4
1996	-0.4	-37.0	-18.3	40.2	42.8	40.2	17.6	M 48	67.1	1127.1	0.0	0.0	72.3

NOTE/AVIS