

Environment
Canada

STATION NAME : WINNIPEG INTL A (YWG)

Prairie & Northern Region

March, 1999.

LAT: 49'55N ELEVATION/ALTITUDE: 239 Metres (ASL) / Metres (NNM)												
LONG: 97'14W STANDARD TIME USED / HEURE NORMALE UTILISEE:										SNOW ON GROUND NEIGE AU SOL		
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRES-JOURS			REL HUMIDITY HUMIDITE REL		PRECIPITATION PRECIPITATIONS			
	Maximum	Minimum	Mean	Heating	Growing	Cooling	Max.	Min.	Rain -	Snow -	Total	
	Max.	Min.	Moyenne	De	De	De			fall	fall	Precip	
				Chauffe	Croiss-	Refrige-			Pluie	Neige	Precip.	
			base 18	base 5	base 18	%	%	mm	cm	mm	cm	
1	-1.0	-4.0	-2.5	20.5	0	0	95	75	0.2	0.2	0.4	3
2	-3.9	-15.8	-9.9	27.9	0	0	86	66	0	TR	TR	3
3	-6.3	-18.5	-12.4	30.4	0	0	89	57	0	0	0	3
4	-4.8	-13.9	-9.4	27.4	0	0	84	51	0	0	0	3
5	-5.6	-18.0	-11.8	29.8	0	0	85	44	0	0	0	2
6	-4.2	-18.1	-11.2	29.2	0	0	87	40	0	0	0	2
7	-0.3	-11.2	-5.8	23.8	0	0	79	60	0	TR	TR	3
8	-2.1	-5.1	-3.6	21.6	0	0	93	86	0	20	14	20
9	-0.1	-7.1	-3.6	21.6	0	0	93	78	0	4	2.5	18
10	-0.1	-7.7	-3.9	21.9	0	0	92	69	0	1	0.4	16
11	1.7	-14.1	-6.2	24.2	0	0	95	62	0	TR	TR	16
12	0.5	-14.9	-7.2	25.2	0	0	96	54	0	0	0	11
13	0.8	-5.5	-2.4	20.4	0	0	86	77	0	0	0	11
14	1.6	-4.4	-1.4	19.4	0	0	85	72	0	0	0	8
15	6.3	-2.6	1.9	16.1	0	0	86	72	0	0	0	2
16	5.0	-5.7	-0.4	18.4	0	0	87	57	0	0	0	1
17	0.9	-9.8	-4.5	22.5	0	0	91	66	0	4	2	2
18	0.1	-13.5	-6.7	24.7	0	0	89	56	0	0	0	2
19	3.4	-4.1	-0.4	18.4	0	0	85	69	0	0	0	TR
20	4.4	-4.0	0.2	17.8	0	0	88	59	0	0	0	TR
21	4.8	-5.7	-0.5	18.5	0	0	87	43	0	0	0	0
22	8.8	-3.6	2.6	15.4	0	0	90	54	0	0	0	0
23	-0.3	-5.6	-3.0	21.0	0	0	79	56	0	0	0	0
24	2.4	-8.8	-3.2	21.2	0	0	87	45	0	0	0	0
25	5.7	-6.1	-0.2	18.2	0	0	85	55	0	0	0	0
26	10.2	0.3	5.3	12.7	0.3	0	72	49	0	0	0	0
27	10.1	0.7	5.4	12.6	0.4	0	97	56	0.5	0	0.5	0
28	11.4	-0.5	5.5	12.5	0.5	0	98	28	0	0	0	0
29	11.8	-0.6	5.6	12.4	0.6	0	84	36	0.5	0	0.5	0
30	16.1	-3.2	6.5	11.5	1.5	0	86	27	0	0	0	0
31	7.0	-1.5	2.8	15.2	0	0	83	56	0	0	0	0
TOTL	84.3	-232.6		632.4	3.3	0.0			1.2	29.2	20.3	
MEAN	2.7	-7.5	-2.4				88	57				
NORM	-1.8	-12.4	-7.0	778.5	1.8	0.0			5.9	19.2	23.1	

NOTE/AVIS 1. Climatological Day: 01 01 LST - 01 00 LST 1. Journee Climatologique: 01 01 LST - 01 00 LST
 2. Normal 1961 - 1990 2. Normale 1961 - 1990
 3. TR = Trace 3. TR = Trace
 4. No entry = Missing 4. Pas de Valeur = Manquant

NOTE: The above data data has been fully Quality Controlled.

DRY-BULB TEMPERATURES / TEMPERATURES DU THERMOMETRE SEC
LST TIME

DATE	Hour/Heure																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	-33	-30	-29	-30	-28	-26	-26	-26	-26	-23	-21	-22	-19	-17	-14	-10	-13	-19	-24	-27	-29	-38	-37	-33
2	-39	-42	-51	-61	-66	-73	-91	-104	-106	-109	-107	-106	-98	-87	-86	-77	-79	-86	-101	-114	-125	-133	-145	-144
3	-156	-158	-163	-170	-174	-180	-181	-181	-164	-150	-128	-111	-100	-91	-78	-73	-67	-70	-89	-96	-108	-117	-117	-118
4	-121	-127	-136	-134	-119	-117	-110	-109	-105	-99	-87	-77	-64	-54	-55	-53	-56	-62	-79	-96	-108	-97	-106	-112
5	-112	-116	-122	-133	-150	-164	-174	-178	-170	-146	-119	-96	-88	-75	-73	-62	-60	-72	-87	-109	-119	-134	-135	-139
6	-145	-153	-154	-157	-165	-177	-176	-175	-165	-122	-103	-81	-66	-61	-56	-48	-48	-50	-61	-77	-88	-100	-99	-100
7	-103	-109	-107	-93	-89	-85	-91	-95	-88	-69	-52	-33	-19	-9	-3	-13	-15	-16	-17	-21	-20	-34	-40	-47
8	-37	-50	-49	-51	-48	-47	-49	-49	-46	-40	-33	-33	-31	-28	-26	-22	-23	-26	-24	-25	-24	-24	-24	-24
9	-29	-34	-36	-39	-42	-50	-57	-51	-54	-53	-34	-25	-20	-16	-21	-23	-27	-28	-41	-47	-34	-55	-48	-21
10	-30	-36	-38	-36	-24	-28	-28	-28	-30	-28	-25	-24	-17	-12	-3	-9	-9	-15	-33	-48	-54	-75	-61	-53
11	-51	-67	-62	-52	-54	-47	-71	-67	-58	-46	-18	3	8	-14	2	-6	-15	-33	-46	-83	-92	-74	-75	-87
12	-140	-139	-93	-90	-92	-89	-85	-82	-84	-66	-54	-42	-28	-14	1	-2	-6	-10	-14	-19	-20	-28	-34	-53
13	-56	-45	-45	-48	-47	-42	-42	-39	-34	-25	-20	-13	-6	-1	3	7	6	5	1	-2	-3	-6	-18	-28
14	-32	-35	-39	-43	-34	-31	-24	-23	-20	-17	-10	-5	-2	5	5	14	13	10	4	0	-1	-1	-3	-5
15	-9	-15	-15	-19	-20	-20	-24	-23	-19	-10	4	8	15	19	27	45	54	54	30	19	6	6	6	-2
16	-9	-16	-14	-28	-33	-35	-44	-54	-44	-22	-28	-21	31	40	49	44	39	19	11	6	6	5	7	3
17	7	9	7	6	3	-2	-13	-20	-22	-28	-28	-41	-41	-34	-28	-23	-26	-25	-29	-50	-79	-66	-85	-95
18	-95	-100	-98	-111	-117	-125	-128	-127	-100	-72	-43	-32	-25	-12	-13	-7	-2	-4	-14	-29	-28	-30	-28	-31
19	-29	-33	-36	-35	-39	-34	-36	-29	-14	-4	1	17	22	30	29	27	30	27	30	31	30	29	22	16
20	9	6	-1	-6	-9	-6	-7	-12	-9	-5	1	10	22	32	40	35	41	40	27	3	-6	-21	-18	-28
21	-40	-37	-42	-47	-47	-49	-54	-53	-24	-8	5	28	28	33	37	40	47	44	34	9	5	-10	-8	-11
22	-10	-13	-33	-30	-26	-26	-24	-26	-3	15	30	44	58	69	81	87	86	82	62	38	13	14	10	4
23	-2	-5	-8	-21	-28	-33	-44	-48	-51	-54	-54	-48	-44	-33	-21	-15	-17	-11	-13	-24	-32	-42	-41	-44
24	-53	-57	-66	-71	-79	-77	-84	-77	-62	-44	-30	-17	-7	-2	10	13	20	18	12	-6	-20	-19	-32	-35
25	-37	-49	-46	-42	-58	-48	-37	-33	-15	1	21	27	35	45	48	48	46	36	22	9	7	6	12	14
26	13	11	9	8	6	6	5	6	19	34	44	55	70	84	86	94	100	101	93	84	83	82	80	74
27	67	62	55	48	49	44	53	44	51	53	58	75	83	67	79	93	91	97	79	53	42	34	27	11
28	11	10	10	7	7	3	-3	-5	0	13	45	72	86	109	110	110	97	86	65	43	38	37	20	4
29	3	9	13	4	3	-2	-4	2	20	37	50	76	90	107	118	76	89	107	90	55	33	32	19	16
30	2	-3	-19	-18	-19	-13	-9	-2	25	64	88	116	142	152	154	140	139	128	114	94	66	38	24	9
31	1	4	-13	-2	-9	-8	-3	-2	8	19	42	34	58	65	67	50	53	42	34	29	22	13	0	-9

NOTE / AVIS: 1 Unit = 0.1 degree Celsius / 1 Unite = 0.1 C No Entry = Missing / Pas de valeur = Manquant

NOTE: The above data has been fully Quality controlled.

PRECIPITATION OCCURRENCES / EVENENMENT DES PRECIPITATIONS
TIME: LST

DATE	Hour/Heure																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1																		ZL	ZL					
2										S														S
3																								
4																								
5																								
6																								
7																								
8	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
9	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
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NOTE / AVIS: R = Rain/pluie ; S = Snow/neige ; W = Showers/averse de ; T = Thunderstorm/orage
 SP = Snow Pellets /neige roulee ; SG = Snow Grains/neige en grains ; A = Hail/greille
 IP = Ice Pellets/gresil ; L = Drizzle/bruine ; Z = Freezing/vergiacante

NOTE: This data has been fully Quality controlled.

HOURLY/HEURE (LST)

Winds / Des Vents (degree points & km/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	Peak Gust	Hour		
1	SSE	SE	ESE	SE	S	S	SSE	SSE	SE	SSE	SE	ESE	E	C	C	NNW	N	NNW	NNW	N	N	N	N	N	N	48	0	
2	N	N	N	N	N	NNW	NNW	NW	NNW	NNW	NW	NNW	NNW	NW	NNW	N	NW	NW	NW	NW	NW	NW	NW	NW	NW	50	1100	
3	NW	WNW	W	W	WNW	NW	NNW	N	N	C	C	NW	N	N	E	C	C	NNE	NE	NE	ENE	NE	ENE	ENE	ENE			
4	NE	ENE	NE	NE	ENE	ENE	E	E	E	E	E	ENE	E	ENE	ENE	NE	NE	NNE	NNE	NNE	NE	ENE	ENE	ENE	ENE	39	1400	
5	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	ENE	ENE	ENE	E	E	ENE	E	ENE	NE	NNE	NE	NNE	NNE	NNE	NE				
6	NE	NE	NE	NE	NE	ENE	NE	ENE	C	SE	SSE	S	SSE	S	SSE	S	S	SSW	SSW	SSW	S	S	S	S	S			
7	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SE	SE	SSE	SE	ESE	S			1400
8	SSE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SE	SE	SSE	ESE	35	600	
9	S	S	SSE	SSE	SE	SE	ESE	ESE	SE	SE	SE	S	SSW	NNW	NW	NNW	N	C	C	C	C	C	E	SE				
10	SSE	SSE	SSE	SE	SSE	SSE	SE	SE	SSE	SE	SSE	SE	SSE	SE	SSE	SSW	SSW	WSW	WNW	C	NE	NW	NNW	E				
11	NE	C	N	NE	NE	ENE	NNW	N	NNE	C	C	ESE	E	NNW	SSW	SW	SW	SW	S	C	C	S	S	SSW				
12	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SW	SSW	S	SSE	SSE	SSE	S	S				
13	S	S	S	S	SSE	S	SE	SSE	SE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S			1600
14	S	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S			1800
15	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SW	W	WNW	W	WNW	W	W	W	S			1100
16	W	W	W	W	W	W	W	W	W	WNW	NNW	N	ENE	NNE	ENE	NE	NNE	NE	NE	ENE	ENE	NE	NE	NNE	ENE	41	1900	
17	NE	NE	NE	NE	NNE	NNE	N	N	N	N	N	N	NNW	NW	NNW	NNW	NW	NW	NW	WNW	NW	W	NW	N			1100	
18	NW	WNW	WNW	NW	WNW	WNW	N	NW	NW	NNW	NNE	NNW	N	NW	W	W	SW	S	S	S	S	S	S	S				
19	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW	SW	W	NW	S			1600
20	NW	N	NW	NNW	NW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NW			200
21	WNW	N	NW	NNW	N	ENE	ENE	C	ESE	SSE	S	S	SSW	SSW	S	S	SW	S	S	S	S	S	S	S				
22	SW	SSW	S	S	SSW	SW	SW	SW	W	W	W	W	W	W	WNW	WNW	WNW	WNW	W	W	W	WNW	WNW	NW	W			1600
23	NW	NNW	N	N	NNW	NNW	N	N	N	N	N	NNE	NNE	N	NNE	NE	NNE	N	NNE	N	N	N	N	NNE	N			1000
24	NNE	NNE	N	N	N	N	N	NNE	NE	ENE	N	NNE	N	N	N	NNE	NNE	N	NNE	NNE	ENE	SE	S	C				
25	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	S	S	S	S	S	S	S	S	S			1600
26	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			1600
27	S	S	S	S	S	SSW	SW	S	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	SSW	S		300
28	S	S	S	S	S	WSW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	WNW	NW	WNW	WSW	WSW	WSW	W	W	W	WNW			1500
29	W	W	W	W	W	W	W	WSW	W	W	W	WSW	WSW	SSW	S	W	S	W	NNW	NNW	WSW	SW	WSW	WSW				
30	W	C	E	SSE	SE	S	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	S	SSE	ESE	NE	ENE	E	NE	SE			1300
31	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N			1000

