



MONTHLY METEOROLOGICAL SUMMARY SOMMAIRE MÉTÉOROLOGIQUE MENSUEL

MONTH/MOIS

NOVEMBER

19 94

AT/A

WINNIPEG INT'L AIRPORT

LAT		049° 05' N		LONG		097° 01' W		ELEVATION ALTITUDE		240		METRES (ASL) MÉTRES (NAM)		STANDARD TIME USED HEURE NORMALE UTILISÉE		CENTRAL		
DATE	TEMPERATURE TEMPERATURE			DEGREE-DAYS DEGRÉS-JOURS			REL HUMIDITY HUMIDITÉ REL		THUNDERSTORM CHUVEE	PRECIPITATION PRÉCIPITATIONS			SHOW ON GROUND NEIGE AU SOL	WIND VENT		BRIGHT SUNSHINE INSOLATION EFFECTIVE		
	MAXIMUM MAXIMALE	MINIMUM MINIMALE	MEAN MOYENNE	HEATING DE CHAUFFE	GROWING DE CROISSANCE	COOLING DE REFRIGÉRATION	MAXIMUM MAXIMALE	MINIMUM MINIMALE		RAINFALL PLUIE (HAUTEUR)	SNOWFALL NEIGE (HAUTEUR)	TOTAL PRECIP. TOTALE		AVERAGE SPEED VITESSE MOYENNE	DIRECTION DIRECTION DOMINANTE		MAX 2 MIN MEAN SPEED & DIRECTION VITESSE MOYENNE MAX. SUR 2 MIN & DIRECTION	HOURS HEURES
	°C	°C	°C	BASE 18°C	BASE 5°C	BASE 18°C	%	%	mm	mm	mm	mm/h	dir	dir	dir	h		
1	6.2	-1.9	2.2	15.8			87	60			3.2			SE	SE	39	0.0	
2	5.8	0.9	3.4	14.6			93	60						W	W	37	3.2	
3	2.5	-5.1	-1.3	19.3			86	59						W*	WNW	26	1.8	
4	4.7	-7.2	-1.3	19.3			86	56						S	S	32	8.7	
5	7.9	-5.8	1.1	16.9			93	56						S	S	32	2.1	
6	8.1	-7.4	0.4	17.6			93	42						W	S	28	8.8	
7	9.6	1.0	5.3	12.7	0.3		100	48			2.8			S	S	30	6.1	
8	9.6	-3.7	3.0	15.0			74	37						WSW	W	30	8.5	
9	7.9	-6.7	0.6	17.4			86	45						SSE*	S	22	8.2	
10	8.9	-1.6	3.7	14.3			69	42						S	S	46	3.7	
11	4.9	1.8	3.4	14.6			100	52			0.3			S	S	33	0.0	
12	7.2	0.2	3.7	14.3			100	87			6.1			SE	SE	28	0.3	
13	7.6	0.6	4.1	13.9			100	93			8.6	0.4		NW	NW	35	0.0	
14	5.2	-0.2	2.5	15.5			100	56			0.8			WNW	WNW	39	7.2	
15	6.5	-0.3	3.1	14.9			87	56						SSW	SSW	35	7.4	
16	5.3	-1.8	3.6	14.4			93	65						S	S	50	0.2	
17	1.9	-3.6	-0.9	18.9			100	87		TR	7.3			N	N	35	0.0	
18	-0.2	-11.1	-5.7	23.7			93	85			5.2			NNW	NNW	44	0.0	
19	-4.4	-13.3	-8.9	26.9			92	73						S	S	37	6.2	
20	0.9	-5.8	-2.5	20.5			86	79						S	S	46	6.6	
21	0.6	-13.8	-6.6	24.6			86	67		TR	TR			NW	NW	56	4.0	
22	-4.8	-12.6	-8.7	26.7			100	67		TR	TR			W	W	28	1.0	
23	1.4	-10.7	-4.7	22.7			85	59		TR	TR			S	S	39	2.0	
24	1.1	-6.8	-2.9	20.9			80	63						W	W	28	8.0	
25	-6.0	-17.0	-11.5	29.5			92	67		TR	TR			NNW	NNW	37	6.2	
26	-3.3	-17.2	-10.3	28.3			92	68			0.6			ESE	ESE	39	0.3	
27	-0.6	-10.0	-5.3	23.3			92	74			0.7			ESE	ESE	30	0.0	
28	-3.5	-9.5	-6.5	24.5			93	74		TR	TR			N	N	30	4.3	
29	-5.4	-13.2	-9.3	27.3			86	67						S	S	22	6.8	
30	-2.2	-14.6	-8.4	26.4			92	73		0.2	TR	0.2		S	S	39	2.9	
31																		
MEAN MOYENNE	2.8	-6.4	-1.8	594.7	0.3	0.0	91	64	0	TOT	TOTAL	TOTAL	TOTAL	21.7	SE	MAXIMALE	TOTAL	
NORMAL NORMALE	-0.4	-9.2	-4.7	683.3	4.3	0.0			0		5.3	19.0	21.2	18.0	S		94.9	
DEGREE-DAY SUMMARY/SOMMAIRE DE DEGRÉS JOURS											DAYS WITH TOTAL PRECIPITATION JOURS AVEC PRÉCIPITATIONS				DAYS WITH SNOWFALL JOURS AVEC CHÛTE DE NEIGE			
BELOW 10°C AU-DESSOUS DE 10°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	ABOVE 5°C AU-DESSUS DE 5°C	THIS YEAR ANNÉE EN COURS	PREVIOUS YEAR ANNÉE PRÉCÉDENTE	NORMAL NORMALE	OR MORE - OU PLUS				OR MORE - OU PLUS						
TOTAL FOR MONTH TOTAL DU MOIS	594.7	706.4	683.3	TOTAL FOR MONTH TOTAL DU MOIS	0.3	0.0	4.3	02	03	04	05	06	07	08	09	10	11	
ACCUMULATED SINCE JULY 1 ACCUMULÉE DEPUIS LE 1 ^{er} JUILLET	1126.2	1479.4	1307.0	ACCUMULATED SINCE APRIL 1 ACCUMULÉE DEPUIS LE 1 ^{er} AVRIL	1816.9	1519.7	1800.3	11	6	6	0	0	5	2	2	0	0	

UDC 551.508.1 ()

Note/avis

1. Climatological Day/Jourées climatologique -00-01 -C. S.T. -23-00 -C. S.T.

2. Normal/Normale 1961-1990

3. TR = Trace

4. M = Missing/Manquant

5. No entry/Pas de valeur - No occurrence/Pas d'événement

6. * Indicates first of more than one prevailing direction and/or maximum 2 minute mean speed (see page 4)/Indique la première de plusieurs des directions dominantes et/ou la vitesse moyenne maximale sur 2 minutes (voir page 4).

7. C = Calm/Calm

8. Price: single issue \$10.0; annual (Jan to Dec) \$59.00 /Prix: numéro individuel \$10.0; annuel \$59.00 (jan. à déc.)



DRY BULB TEMPERATURE SUMMARY
 SOMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

NOVEMBER 1994
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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	-17	2	-6	-17	-8	-5	-5	-2	0	12	20	32	37	34	47	58	51	50	49	51	53	54	56	58	25
A	48	50	39	33	21	18	15	16	16	20	27	34	42	44	53	47	35	27	16	16	18	18	16	13	28
T	3	11	8	5	2	1	-1	-4	-6	-7	-3	-5	-2	5	13	10	10	-14	-28	-35	-36	-37	-40	-8	
E	4	-50	-58	-57	-69	-59	-58	-62	-68	-55	-30	-2	17	26	38	44	39	24	15	9	6	11	8	2	
	5	6	4	-1	-2	-3	-2	-5	-3	2	10	22	33	49	72	59	51	16	2	-15	-26	-28	-39	43	
	6	-48	-37	-42	-48	-52	-51	-74	-48	-24	2	28	52	66	76	78	67	34	16	29	21	13	6	1	
	7	17	24	30	35	29	44	34	37	41	50	61	70	79	88	95	80	75	56	40	35	39	28	50	
	8	11	5	0	-11	-15	-17	-8	-21	-16	-2	24	51	72	94	93	89	56	40	36	27	6	1	24	
	9	-34	-26	-41	-36	-35	-51	-53	-54	-55	-24	5	52	68	74	72	58	27	35	24	19	34	37	6	
	10	-6	-9	-1	-1	12	22	23	24	26	33	45	68	79	84	79	72	67	66	66	62	61	59	53	
	11	48	47	45	42	36	29	21	23	22	34	42	44	41	42	40	42	42	38	38	34	35	35	37	
	12	37	38	36	20	30	32	22	5	11	18	31	44	58	67	70	60	58	58	62	72	72	68	45	
	13	68	68	69	72	73	76	75	74	74	69	67	73	69	64	57	54	55	53	37	30	26	16	58	
	14	7	13	25	23	20	18	11	4	8	16	27	42	49	51	49	41	19	16	14	14	3	3	20	
	15	4	9	18	6	2	6	0	-1	12	25	34	46	58	58	65	58	40	30	37	28	17	16	25	
	16	11	14	20	21	21	30	30	31	34	28	37	42	43	47	51	52	50	48	48	46	41	37	35	
	17	23	18	-8	-16	-19	-21	-24	-21	-26	-2	5	11	13	17	17	10	4	3	4	2	-1	-3	-1	
	18	-5	-3	-4	-3	-8	-8	-14	-22	-32	-31	-32	-32	-32	-32	-38	-40	-45	-54	-67	-66	-69	-85	-103	
	19	-110	-112	-118	-123	-123	-131	-116	-118	-117	-96	-81	-68	-61	-54	-53	-44	-46	-48	-47	-50	-50	-48	-49	
	20	-51	-55	-54	-54	-52	-53	-52	-51	-47	-43	-31	-20	-6	5	5	-1	-2	-1	-2	-2	-2	-2	-2	
	21	1	2	-5	-2	0	-7	-32	-46	-57	-72	-77	-77	-78	-81	-83	-92	-100	-114	-131	-127	-133	-129	-109	
	22	-109	-91	-84	-68	-50	-53	-61	-73	-89	-91	-89	-88	-87	-86	-90	-93	-102	-116	-113	-99	-92	-86	-86	
	23	-84	-86	-103	-102	-95	-103	-104	-94	-93	-87	-75	-59	-48	-39	-28	-23	-21	-12	-11	-20	-14	13	-56	
	24	6	1	-2	-17	-7	-14	-21	-25	-27	-29	-22	-15	-9	2	1	-7	-19	-30	-35	-38	-41	-44	-57	
	25	-58	-62	-70	-88	-95	-128	-139	-143	-140	-141	-138	-118	-115	-110	-109	-118	-134	-146	-155	-152	-157	-162	-160	
	26	-160	-163	-163	-166	-150	-141	-137	-126	-117	-112	-103	-92	-78	-67	-55	-44	-41	-41	-43	-42	-38	-38	-38	
	27	-33	-28	-30	-32	-26	-26	-24	-24	-23	-22	-21	-16	-13	-10	-7	-20	-14	-22	-41	-42	-38	-61	-92	
	28	-93	-82	-81	-70	-74	-71	-86	-69	-57	-53	-53	-48	-44	-38	-38	-48	-88	-88	-57	-43	-43	-44	-45	
	29	-54	-56	-62	-64	-66	-66	-67	-76	-91	-105	-109	-95	-87	-81	-79	-80	-88	-101	-111	-113	-111	-132	-119	
	30	-119	-114	-118	-118	-122	-138	-139	-138	-128	-119	-95	-81	-74	-63	-56	-50	-47	-41	-34	-26	-27	-28	-27	
MEAN	-24	-23	-25	-28	-27	-29	-32	-34	-33	-27	-18	-8	0	7	12	12	7	-4	-9	-13	-15	-16	-19	-21	
MOYENNE																									

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

D A Y	H O U R	HOUR ->																							DIR.	PEAK WIND SPEED	TIME
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22			
1	ESE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	ESE	ESE	SSE	SE	SE	SSE	S	S	S	S	SE	56	16:00
		13	15	13	11	13	17	19	19	17	15	19	20	22	20	24	26	35	39	32	26	24	37	28	22		
2	S	SW	W	W	W	W	WSW	WSW	WSW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	50	15:00
		15	13	15	19	17	20	22	20	24	22	28	20	28	28	28	37	37	20	19	15	20	17	17	20		
3	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	W	W	W	W	W	N	SE	S	SSW	SW	W	SW	W	33	15:00
		19	20	26	17	15	20	22	15	9	15	20	19	19	19	11	19	15	7	4	9	11	11	11	11		
4	SW	SSW	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	41	21:00
		11	11	9	7	11	11	11	13	13	15	15	17	32	28	30	26	24	22	24	24	28	30	28	26		
5	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	41	07:00
		26	24	26	24	28	28	32	28	32	26	28	30	22	19	13	24	20	15	15	13	15	13	9	13		
6	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	S	35	21:00
		11	13	13	13	15	15	11	11	11	13	11	9	11	11	17	22	20	15	17	26	26	19	22	28		
7	S	S	S	S	S	S	S	S	SSE	SSE	SE	SSE	S	SW	WSW	SSW	SSW	S	SW	SW	W	W	W	W	S	44	03:00
		26	28	26	30	30	24	24	17	15	13	15	15	11	17	19	17	17	19	19	22	24	26	22			
8	W	W	W	W	W	W	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	W	WSW	WSW	W	W	W	W	W	WSW	39	15:00
		22	30	24	19	15	13	19	13	17	17	19	20	22	24	24	26	24	17	15	19	19	15	17	13		
9	WNW	W	NW	WNW	WSW	W	C	S	SSW	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	63	12:00
		11	11	17	7	7	4	0	4	9	4	7	15	19	17	22	17	15	17	15	15	15	17	19	17		
10	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	63	12:00
		15	15	19	19	20	26	26	30	30	32	33	44	46	41	37	32	35	28	30	30	28	26	30	30		
11	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	44	02:00
		30	33	24	24	24	19	20	22	20	11	17	20	13	13	9	7	7	9	7	9	13	6	7	6		
12	C	WSW	S	SE	S	SE	S	SE	SE	SSE	SSE	SE	SSE	SE	SSE	SE	SSE	SE	ESE	ESE	SE	SE	SE	SE	SE	39	20:00
		0	4	9	11	7	11	13	11	13	11	13	19	20	20	26	20	20	28	20	24	26	24	19	20		
13	ESE	ESE	SE	SE	SSE	S	S	SSW	WSW	W	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	52	20:46
		26	20	20	19	15	11	9	9	11	17	15	15	22	26	26	20	20	19	19	26	35	35	32	26		
14	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	NW	WNW	WNW	W	WSW	WSW	WSW	SW	SW	SW	SW	WNW	44	13:00
		26	26	35	32	33	28	32	24	35	32	30	32	39	33	33	22	19	13	15	20	17	15	19	17		
15	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	41	19:00
		20	22	26	24	22	24	26	24	19	20	26	24	26	35	32	30	26	24	19	32	33	26	28	30		
16	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	65	06:00
		30	33	35	33	33	41	48	41	37	43	50	41	43	39	39	30	33	32	30	30	28	26	20	19	13	

WINDCHILL SUMMARY
 SUMMAIRE DES TEMPERATURES DU THERMOMETRE SEC

WINNIPEG INT'L AIRPORT

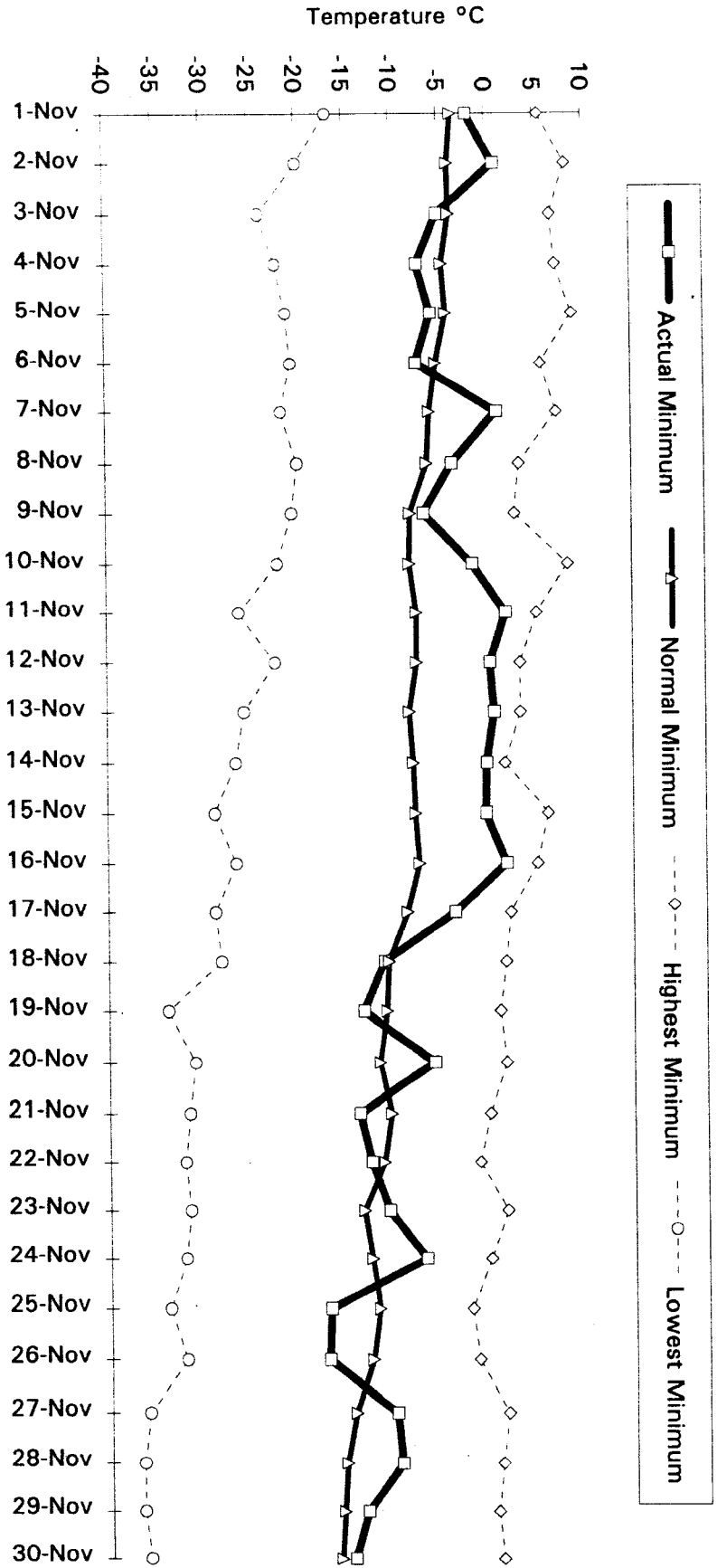
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HOUR ->	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
D 1	1040	1016	1007	1001	1013	1067	1094	1084	1051	1012	1074	1021	1014	1058	1103	1000	1025	1006	1056	1059	1068	1085	1045	1053
A 2	1041	1063	1135	1045	1019	1093	1126	1040	1031	1106	1084	1061	1061	1045	1031	1082	1102	1016	1034	1102	1073	1017	1118	1118
T 3	1096	1120	1067	1039	1122	1120	1175	1193	1192	1039	1028	1106	1035	1028	1031	1082	1102	1016	1034	1102	1073	1017	1118	1118
E 4	1131	1119	1156	1140	1177	1181	1208	1188	1212	1145	1134	1107	1001	1033	1057	1023	1032	1030	1000	1025	1006	1056	1059	1068
5	1091	1100	1115	1133	1183	1180	1117	1166	1091	1061	1079	1035	1092	1110	1055	1045	1003	1048	1022	1003	1048	1022	1003	1048
6	1075	1085	1048	1060	1082	1040	1052	1102	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057
7	1075	1168	1133	1113	1068	1040	1104	1052	1102	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057	1057
8	1050	1027	1182	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061	1061
9	1040	1050	1081	1081	1050	1075	1072	1100	1093	1081	1043	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009
10	1014	1036	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010
11	1128	1107	1129	1117	1135	1106	1161	1119	1192	1176	1129	1103	1087	1029	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021
12	1076	1082	1089	1113	1106	1113	1133	1081	1050	1065	1016	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007
13	1147	1157	1147	1131	1176	1170	1142	1118	1135	1173	1149	1124	1087	1083	1017	1021	1012	1006	1014	1000	1163	1190	1197	1230
14	1240	1219	1249	1233	1219	1286	1309	1355	1325	1366	1362	1340	1325	1325	1347	1292	1288	1268	1296	1031	1197	1249	1197	1249
15	1270	1275	1293	1249	1403	1382	1337	1387	1424	1436	1435	1367	1431	1361	1377	1398	1398	1392	1359	1355	1327	1327	1298	1323
16	1284	1298	1361	1341	1373	1394	1454	1387	1395	1366	1385	1347	1303	1245	1226	1237	1212	1193	1173	1208	1140	1096	1119	1028
17	1048	1179	1204	1177	1201	1234	1428	1483	1500	1570	1558	1621	1614	1625	1593	1584	1474	1524	1375	1428	1190	1336	1376	1433
18	1480	1390	1396	1314	1347	1315	1343	1407	1463	1325	1262	1256	1152	1086	1047	1057	1064	1064	1064	1064	1064	1064	1064	1064
19	1141	1247	1249	1246	1316	1298	1344	1397	1432	1474	1474	1336	1376	1366	1269	1343	1320	1312	1212	1202	1209	1202	1160	1107
20	1113	1130	1140	1133	1177	1177	1160	1226	1219	1266	1233	1229	1205	1184	1140	1145	1074	1073	1139	1175	1163	1215	1251	1261
21	1281	1369	1481	1502	1589	1667	1686	1652	1711	1617	1607	1459	1387	1284	1270	1267	1127	1168	1098	1220	1213	1123	1281	1130
22	1351	1284	1241	1292	1208	1359	1347	1367	1476	1459	1414	1393	1347	1296	1271	1235	1274	1315	1281	1254	1404	1339	1362	1362
23	1268	1287	1257	1243	1175	1243	1222	1255	1251	1187	1146	1166	1143	1062	1083	1010	1123	1090	1149	1248	1151	1211	1268	1268
24	1347	1360	1357	1348	1362	1309	1374	1370	1372	1337	1377	1358	1298	1261	1215	1201	1171	1206	1253	1160	1257	1232	1284	1224
25	1151	1195	1280	1220	1226	1143	1094	1171	1262	1304	1267	1354	1328	1342	1335	1339	1365	1453	1440	1372	1440	1385	1483	1483
26	1483	1450	1427	1387	1440	1350	1452	1528	1459	1466	1388	1435	1470	1413	1405	1413	1391	1395	1387	1347	1331	1347	1269	1266

EQUAL TO OR OVER ->	1000	1200	1400	1600	1800	2000	2100	2200	2300	2400	2500	2600	2700	WINDCHILL IS	EXPRESSED IN
NUMBER OF HOURS	528	248	56	9	0	0	0	0	0	0	0	0	0		
NUMBER OF DAYS	30	15	9	2	0	0	0	0	0	0	0	0	0		
MAX CONSECUTIVE HOURS	112	41	11	5	0	0	0	0	0	0	0	0	0		WATTS/SQ.M.

Daily Minimum Temperature at Winnipeg

November 1994

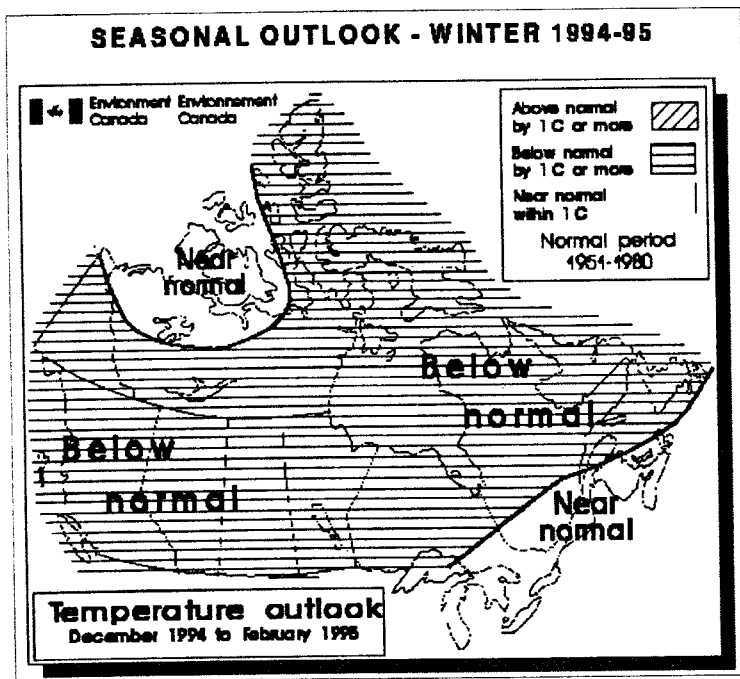


Month: NOVEMBER Year: 1994

	CURRENT		NORMAL		DEPARTURE M NORMAL
	VALUE	DATE	VALUE	DATE	
Mean Maximum	2.8		-0.4		3.2
Mean Minimum	-6.4		-9.2		2.8
Mean	-1.8		-4.7		2.9
Extreme Maximum and Date	9.6	7&8	23.9	1975/1	
Extreme Minimum and Date	-17.2	26	-36.7	1875/26	
Rainfall (mm)	22.0		5.3		16.7
Snowfall (cm)	14.2		19.0		-4.8
Total Precipitation (mm)	36.2		21.2		15.0
Days With Thunder	0		0		0.0
Days With Measurable Precipitation	11		9		2.0
Sunshine Hours	114.5		94.9		19.6
Wind (km/h)	21.7		18.0		3.7
Heating Degree Days Below 18 C	594.7		683.3		-88.6
Growing Degree Days Above 5 C	0.3		4.3		-4.0
Heating Degree Days Below 0 C	0.0		168.3		-168.3
Cooling Degree Days Above 18 C	0.0		0.0		0.0

Highlights of the Month

Between November 1st and 15th the average maximum temperature was 6.8 degrees while precipitation fell as 21.8 mm of rain and 0.4 cm of snow. During the latter half of the month, the mean maximum temperature was only -1.3 and precipitation fell mostly as snow. Snowfall between the 16th and 30th was 13.8 cm while rainfall was only 0.2 mm. You might say that with the snowstorm that dumped over 12 cm of snow on the city on the 17th and 18th, the fall season ended and winter began. Heavy snowfall advisories were issued for parts of southern Manitoba for that storm, and although 12 cm is a significant total, reports from volunteer climate stations indicated that 25 to 35 cm fell in the Pembina hill, southwest of Winnipeg.



Here is the seasonal forecast for the Winter of 1994/95. Although most of the country is expected to experience below normal temperatures, the prospect of an el nino developing is quite high. When the El Nino Southern Oscillation (ENSO) enters a warm phase the Canadian Prairies can experience a mild winter. Many of the signs of a developing warm phase are in place but, developments over the next 4 to 6 weeks are crucial.