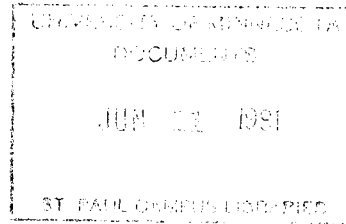


MINNESOTA AGRICULTURAL EXPERIMENT STATION



# C. A. W. A. P. \*

## 1989 Crop Season Climatic Data University of Minnesota Field Research Locations

Data from:

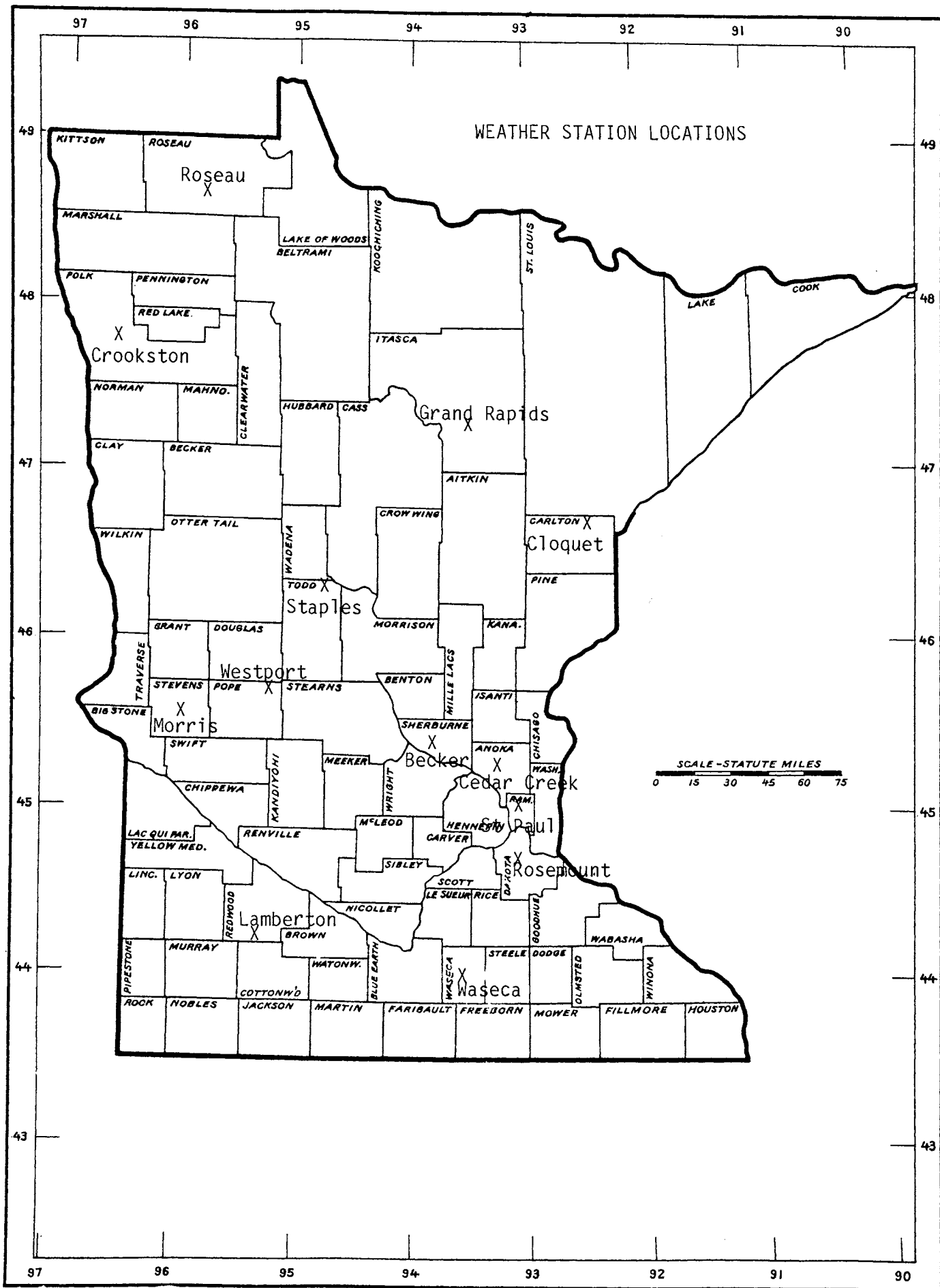
- Becker
- Cedar Creek
- Cloquet
- Crookston
- Grand Rapids
- Lamberton
- Morris
- Roseau
- Rosemount
- St. Paul
- Staples
- Waseca
- Westport

**\*University of Minnesota Cooperative  
Agricultural Weather Advisory Program**

**(National Weather Service and Minnesota  
Department of Natural Resources—State  
Climatology Office Cooperating)**

**M.W. Seeley  
M.J. Menne, and I.A. Barrie**

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Current information available from University of Minnesota Extension: <http://www.extension.umn.edu>



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## WEATHER SUMMARY FOR THE 1989 CROPPING SEASON

Following poor soil moisture recharge in the wake of the 1988 drought, the early prospects for the 1989 growing season were less than good. Initial soil moisture levels were low, especially in the southwest, leaving little to fall back on should a prolonged dry spell reoccur.

Earlier in February, poor snow conditions, together with very low temperatures, drove the frozen soil layer down to around 100 cm over much of the arable area. Consequently, when the winter snow pack melted, moisture could not penetrate deeply into the soil, and runoff accounted for the major fraction of the melt, causing extensive flooding in the northwest.

Frost finally left the topsoil by mid April, but deep soil temperatures remained below freezing until late April.

Soil temperatures continued to rise strongly through late April, but a check in early May left 10 cm temperatures hovering around the 10° C level. A warm spell in the week of May 8 to 14 gave a boost, which together with reasonable top soil moisture conditions from spring rains, produced good conditions for planting and germination.

Early season rains were near to somewhat below normal over most of the state, with totals for April and May combined ranging from 90 to 120 mm over most of Minnesota, while East Central and South East divisions fared better with around 150 mm.

Early sown corn received a sharp setback from a late frost on the morning of June 15, especially in southeast and southwest Minnesota.

Precipitation totals continued to run below normal in June, especially in central and southern areas, but with monthly totals still in the 60 to 70 mm range there were adequate amounts to maintain growth. A threatening dry period in the southwest was alleviated by timely falls of rain in late June and again, most critically, in mid-July. Similar to June, the July precipitation totals tended to be below normal, particularly in the northwest which only recorded around 40 mm.

Temperatures during the main part of the growing season departed little from normal ; in June they were 0° to 1.5° C below normal, while in July they were 2° to 4° C above, but 5.5° C above in the drier northwest.

During August and September some quite generous and timely rains fell on Minnesota. The two month totals ranged from 125-140 mm in southern and northwestern divisions, with 175-210 mm elsewhere. Although very welcome for the corn and soybean crops, the rains came too late to further improve the small grain crop in the Red River Valley area. During this period temperatures continued to follow the normals closely.

Soil moisture levels by mid August had fallen substantially from early season levels, indicating that not only had the season's rainfall been consumed almost immediately, but also what soil moisture reserves were left had been drawn on by the growing crops. With between 50 and 100 mm of soil moisture now remaining under corn, levels had dropped to near those at the same time in 1988.

Climatologically, the best period for soil moisture recharge is in the Fall, but in 1989 as in 1987 and 1988, the Fall rains were poor. October and November combined produced little more than 40 mm. As evaporative demand by this time is low, then soil moisture levels did not decrease further, but they have remained at historically low levels, especially in the south, leading to continued apprehension over the prospects for 1990.

In summary, the weather during the 1989 growing season returned to near normal. Timely rains, combined with near normal temperatures, mitigated the effects of historically low soil moisture levels and produced crops which exceeded early expectations. However little progress was made in relieving the legacy of a drought which started in late 1986. An extended period of above normal precipitation is still required before the hydrology of Minnesota can return to normal levels.

#### ERRATA - 1988 CAWAP Report

Please note the following corrections :

- 1 Westport: 1 day slippage in all dates (Apr 2 should read Apr 1)
- 2 Staples: mean Oct soil temperatures, max = 10.6° C , min 3.2° C (p. 66).
- 3 Grand Rapids: mean April solar = 5.60 kWh/m<sup>2</sup>  
: accumulated degree days (pp. 35-38) were above 4.44° C.

UNIVERSITY OF MINNESOTA FIELD RESEARCH LOCATIONS  
1989 GROWING SEASON CLIMATIC DATA

The following data characterize the environmental conditions during the 1989 growing season at 13 research sites operated by the University of Minnesota Agricultural Experiment Station, the College of Natural Resources, and the College of Biological Sciences. These data were collected using standard sets of manual and electronic instrumentation placed in the field in such a way so as to represent the general environment at each research location. Effort was made to standardize instrument type, placement, orientation, and frequency of readings so that valid comparisons between locations could be made.

The following list of codes describes the types of environmental measurements made at each location and listed on subsequent pages:

CODE	DESCRIPTION
MAX AIR	Maximum air temperature in degrees Celsius from a shielded thermistor placed 1.5 meters above the ground.
MIN AIR	Minimum air temperature in degrees Celsius from a shielded thermistor placed 1.5 meters above the ground.
PRE	Total precipitation in millimeters from a standard National Weather Service stick gauge.
PAN	Total evaporation in millimeters from a standard National Weather Service evaporation pan. Not taken at all locations.
SOL	Solar energy flux density, or incident shortwave radiation received on a horizontal surface expressed as kilowatt-hours/square meter (kWhr/m <sup>2</sup> ).
WIND DIRN	Mean wind direction for the date, expressed in degrees ranging from 0 to 360, at a measurement height of 3 meters.

WIND SP                    Mean wind speed for the date, expressed as meters per second (m/sec), at a measurement height of 3 meters.

MAX SOIL                   Soil maximum temperature in degrees Celsius at a depth of 10 cm under bare soil.

MIN SOIL                   Soil minimum temperature in degrees Celsius at a depth of 10 cm under bare soil.

MAX RH                    Maximum relative humidity in percent (%).

MIN RH                    Minimum relative humidity in percent (%).

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Monthly means or totals for each type of measurement are given following the listing for each month. Missing values are noted and may be do to a number of problems related to instrument installation, malfunction, or telephone line transmission errors. An asterisk is used following dates when data shown represent manual observations recorded from standard National Weather Service instruments which differ in some way from the usual set of electronic instruments used to make measurements on most dates. Data marked by an asterisk may also differ in time of observation. For dates listed without an asterisk, electronic measurements were summarized as means and totals on a midnight to midnight basis. Other discrepancies are explained in the detailed measurement notes on page 7.

This publication is intended to provide researchers with sufficient environmental data to interpret the physical or biological responses which are being researched at each field location. Undoubtedly, there are many other applications of these data. Since the major objective is to provide a data source for university researchers, all measurements are expressed in standard scientific units. For conversion factors and questions related to interpretation, or for access to more detailed hourly data sets, users may call the Minnesota Extension Climatology Office @ (612) 625-4724.



\*\*\*\*\*

Acknowledgements: The authors wish to express their appreciation to the personnel of the University of Minnesota who helped to maintain the equipment and who so diligently collected data with us throughout the year. Special thanks are expressed to the following individuals:

Personnel	Location
Mel Wiens/Shelly Notch/Rosanne Lundeen	Staples
Glen Titrud/Tony Schenk	Becker
Karen Schuller/Clifford Wilcox/USDA-ARS staff	Rosemount
Vernon Ferch/Brain Anderson/Arielle Balak/ Gyles Randall	Waseca
Tony Strasser/Ramona Creighton/Carol Theis/ Mary Arnoldi/Jim Staricki	Lamberton
Sam Evans/Jean Spohr/George Nelson	Morris
John Lamb/Janet Solheim/Todd Cymbaluk	Crookston
Kay Sargent/Staff of the USDA Forestry Lab	Grand Rapids
Ron Severs/Phyllis Bakka	Cloquet
Climatology Staff of the Soil Science Department	St. Paul
Dave Bosanko	Cedar Creek
Joe Spitzmueller	Roseau
USDA-SCS/Center for Agricultural Impacts on Water Quality	Westport

Soil moisture measurements made by the staff at Crookston, Morris, Lamberton, and Waseca were collated by Dr. D.G. Baker and D. Ruschy, Soil Science Department, University of Minnesota, St. Paul.

Special thanks also to Craig Schrader and Greg Spoden whose experience and expertise proved invaluable both in data collection and in assembly for publication.

We also wish to thank the generous contributions from the Minnesota Soybean Research and Promotion Council, Northern States Power, the Sugarbeet Research and Education Board, and the Minnesota Crop Improvement Association.

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## MEASUREMENT NOTES

1. Temperature and degree day normals shown in Tables 1-6 were corrected for time of observation and represent values based on a midnight to midnight observation cycle. They are likely to differ from those published by the National Climatic Data Center.
2. Daily evaporation measurements were not always taken at Becker and Staples. For selected periods of 2 or more days total evaporation was divided equally among the number of days between measurements, or daily estimates were made based on solar radiation, temperature, or other pan evaporation data.
3. Following the last date in each month, a monthly summary is given for each measurement using "MEAN" or "TOTL". An "M" indicates missing or insufficient data.
4. Periodic missing data generally indicate instrument failure. For dates marked with an asterisk, areal extrapolation from a nearby observation site (usually National Weather Service or Soil and Water Conservation District observers) was used to make an estimation or air temperatures were substituted using standard mercury and alcohol thermometers.
5. Except for the base 10/30 (1030) degree C method, all degree days (GDD) were calculated using the method

$$[(T_{\max} + T_{\min})/2] - T_b = \text{growing degree days (GDD)}$$

where  $T_b$  represents a base temperature value of 4.44, 7.22, or 10.0 degrees C. For the base 10/30 method, minimum temperatures below 10 degrees C and maximum temperatures above 30 degrees C are reset to 10 and 30 degrees C respectively, and are then used to calculate daily growing degrees. For example, a day with a minimum temperature of 8 degrees C and a maximum of 33 degrees C would have 10 growing degree days.

$$[(30 + 10)/2] - 10 = 10$$

6. Extraordinary pan evaporation values in excess of 12 mm may be due to measurement error, or splash loss cause by strong winds, intense rainfall, of hail.
7. Due to the surrounding forested environment, data from Cloquet, Grand Rapids, and Cedar Creek Natural History

Center may not be extrapolated over distance as well as those data with more homogeneous surroundings.

8. To avoid sheltering by surrounding trees at Cloquet, the wind and solar radiation instruments were moved to the top of a 10 m tower on Oct 23.

#### OBSERVING PRACTICES

Station	Daily Precip From	Recording Time	Normals Based On Temp	Based On Precip
Becker	o/s	8am	St Cloud	Elk River
Cedar Creek	East Bethel	6pm	Cambridge	Elk River
Cloquet	o/s	4pm	o/s	o/s
Crookston	o/s	8am	o/s	o/s
Grand Rapids	o/s	8am	o/s	o/s
Lamberton	o/s	8am	Springfield	o/s
Morris	o/s	8am	o/s	o/s
Roseau	Jadis	4pm	o/s	o/s
Rosemount	o/s	5pm	o/s	o/s
St Paul	o/s	5pm	MSP Airport	MSP Airport
Staples	o/s	8am	Wadena	Wadena
Waseca	o/s	8am	o/s	o/s
Westport	Orange	8am	Glenwood	Alexandria

#### Notes on Recordings

1 o/s ; records based from on-site readings.

2 Daily precipitation and evaporation totals at 8 am are "thrown back" to the previous day (e.g. precip. recorded at 8 am on April 2 is attributed to April 1).

- 3 All precipitation records are from NWS stick gauge sites.
- 4 Soil temperatures recorded at a depth of 10 cm.
- 5 Estimated readings from a neighboring site are denoted "\*".
- 6 Missing or incomplete readings are denoted "M".
- 7 East Bethel, Jadis, and Orange precipitation from DNR State Climatology Office High Density Rain Gauge Network.
- 8 Lamberton normals are based on the period 1960-82.
- 9 All other normals are based on the period 1951-80.

TABLE 1.

MEAN MONTHLY TEMPERATURE AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER	6.2	14.3	19.6	24.2	21.3	15.4	8.8
DEP. (1)	+0.1	+1.1	+1.3	+3.2	+1.7	+1.3	+0.6
CEDAR CREEK	5.6	13.0	17.7	22.6	19.9	14.7	8.4
DEP.	-0.8	-0.4	-0.9	+1.4	+0.1	+0.5	-0.0
CLOQUET	2.4	11.1	15.4	20.9	18.6	13.4	6.5
DEP.	-1.1	+1.0	0.0	+2.3	+1.4	+1.6	+0.2
CROOKSTON	4.5	14.5	18.2	23.6	21.7	15.0	7.1
DEP.	-0.3	+2.3	+0.6	+3.3	+2.1	+1.2	-0.3
GRAND RAPIDS	3.6	12.2	16.5	21.5	19.0	13.5	7.1
DEP.	-0.5	+1.2	+0.3	+2.7	+1.6	+1.7	+0.6
LAMBERTON	7.3	14.6	20.0	24.2	21.8	16.0	9.6
DEP. (2)	-0.2	+0.1	-0.2	+2.1	+1.2	+0.6	-0.1
MORRIS	6.2	14.0	18.8	23.6	21.0	15.1	8.3
DEP.	+0.2	+0.6	-0.1	+2.3	+0.7	+0.8	-0.1
ROSEAU	1.7	13.0	16.0	21.1	18.6	13.2	5.5
DEP.	-1.5	+2.4	-0.2	+2.4	+1.3	+1.8	-0.2
ROSEMOUNT	6.9	12.7	18.7	23.5	21.5	16.6	9.5
DEP.	+0.5	-0.6	-0.1	+2.2	+1.6	+2.0	+0.9
ST. PAUL	7.8	15.0	19.9	24.2	21.8	16.6	11.2
DEP. (3)	-0.8	-0.7	-0.9	+0.7	-0.4	-0.3	+0.6
STAPLES	4.3	12.6	17.5	22.8	19.6	13.7	7.2
DEP. (4)	-0.8	+0.2	-0.3	+2.4	+0.3	+0.3	-0.2
WASECA	7.2	14.2	19.3	23.8	21.4	15.4	9.7
DEP.	+0.3	+0.4	+0.1	+2.4	+1.3	+0.6	+0.8
WESTPORT	5.6	13.7	18.5	23.0	20.6	14.3	7.9
DEP.	-0.4	+0.5	-0.1	+1.6	+0.4	-0.1	-0.5

(1) DEPARTURE FROM ST. CLOUD NORMALS

(2) DEPARTURE FROM SPRINGFIELD NORMALS

(3) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(4) DEPARTURE FROM WADENA NORMALS

(TEMPERATURE NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY THE NATIONAL CLIMATIC CENTER.)

TABLE 2.

TOTAL MONTHLY PRECIPITATION AND DEPARTURE FROM NORMAL  
(MILLIMETERS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER DEP. (1)	31.0 -22.0	101.9 +8.9	32.3 -79.7	54.6 -39.4	91.2 -19.8	57.4 -15.6	9.7 -40.3
CEDAR CREEK DEP.	45.7 -7.3	89.7 -3.3	82.6 -29.4	63.8 -30.2	120.9 +9.9	54.1 -18.9	25.1 -24.9
CLOQUET DEP.	35.1 -17.9	77.7 -9.3	70.6 -33.4	56.1 -54.9	110.7 +7.7	73.4 -10.6	26.4 -29.6
CROOKSTON DEP.	9.6 -25.4	111.7 +55.7	66.4 -25.6	13.7 -67.3	92.1 +15.1	22.6 -36.4	6.9 -28.1
GRAND RAPIDS DEP.	58.9 +7.9	81.0 +1.0	117.9 +21.9	69.1 -35.9	135.9 +49.9	138.9 +62.9	42.2 -8.8
LAMBERTON DEP. (2)	57.7 -7.3	14.2 -67.8	53.6 -34.4	102.4 +8.4	80.3 +20.3	62.5 -9.5	0.0 -56.0
MORRIS DEP.	60.2 -1.8	46.5 -27.5	116.6 +17.6	109.5 +25.5	108.0 +29.0	64.3 +15.3	25.4 -21.6
ROSEAU DEP.	2.5 -30.5	87.1 +29.1	140.5 +56.5	48.0 -40.0	93.0 +14.0	34.3 -31.7	10.4 -21.6
ROSEMOUNT DEP.	73.9 +11.9	103.6 +9.6	119.4 -1.6	61.5 -39.5	89.9 -19.1	34.8 -46.2	15.5 -40.5
ST. PAUL DEP. (3)	71.1 +9.1	86.6 -4.4	84.1 -26.9	94.5 +3.5	63.2 -33.8	66.5 -10.5	15.5 -45.5
STAPLES DEP. (4)	35.5 -27.5	103.4 +27.4	51.1 -60.9	52.1 -48.9	201.1 +114.1	106.9 +43.9	30.8 -15.2
WASECA DEP.	81.5 14.5	39.6 -55.4	56.1 -57.9	95.2 -6.8	85.9 -16.1	37.6 -47.4	5.1 -47.9
WESTPORT DEP.	64.5 +9.5	72.6 -1.4	70.6 -32.4	28.7 -48.3	210.3 +119.3	58.7 +0.7	52.1 +4.1

- (1) DEPARTURE FROM ELK RIVER NORMALS  
(2) DEPARTURE FROM 1960 - 1982 AVERAGE  
(3) DEPARTURE FROM 1961 - 1980 AVERAGE  
(4) DEPARTURE FROM WADENA NORMALS

TABLE 3.

TOTAL DEGREE DAYS (BASE 4.44) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER	95	303	454	611	507	344	153
DEP. (1)	-3	+29	+37	+98	+37	+54	+9
CEDAR	84	270	398	562	479	308	146
DEP.	-17	-10	-25	+42	+4	+15	-2
CLOQUET	25	218	327	510	438	268	101
DEP.	-23	+36	0	+71	+41	+46	+2
CROOKSTON	75	318	410	593	535	314	125
DEP.	-1	+74	+17	+101	+70	+42	+3
GRAND RAPIDS	46	250	362	529	449	272	112
DEP.	-15	+38	+10	+83	+49	+48	+8
LAMBERTON	122	317	466	610	538	347	182
DEP. (2)	+4	+6	-3	+65	+38	+13	+6
MORRIS	99	301	430	592	512	319	146
DEP.	-4	+21	-2	+71	+25	+20	+5
ROSEAU	41	275	344	517	438	248	87
DEP.	-18	+72	-5	+76	+41	+36	-8
ROSEMOUNT	106	260	427	589	529	364	169
DEP.	+4	-18	-2	+68	+52	+59	+11
ST. PAUL	129	328	464	611	538	366	218
DEP. (3)	-3	+8	-4	+41	+11	+26	+38
STAPLES	69	258	391	568	470	278	117
DEP. (4)	-10	+9	-9	+74	+10	+12	-8
WASECA	115	308	444	593	525	322	182
DEP.	+12	+15	+2	+60	+46	+9	+22
WESTPORT	86	293	421	574	501	298	136
DEP.	-7	+20	-1	+50	+14	0	-11

(1) DEPARTURE FROM ST. CLOUD NORMALS

(2) DEPARTURE FROM SPRINGFIELD NORMALS

(3) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS

(4) DEPARTURE FROM WADENA NORMALS

(TEMPERATURE NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME  
OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY  
THE NATIONAL CLIMATIC CENTER.)

TABLE 4.

TOTAL DEGREE DAYS (BASE 7.22) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER DEP. (1)	58 +4	224 +31	372 +39	525 +98	436 +52	246 +38	103 +16
CEDAR CREEK DEP.	50 -7	194 -4	314 -26	476 +42	393 +4	227 +16	99 +8
CLOQUET DEP.	6 -14	143 +31	244 +1	423 +70	352 +41	189 +47	58 +5
CROOKSTON DEP.	41 0	239 +71	327 +16	506 +100	449 +70	235 +41	77 +47
GRAND RAPIDS DEP.	18 -12	172 +31	279 +10	442 +82	363 +49	192 +47	70 +12
LAMBERTON DEP. (2)	73 +8	236 +9	383 -3	523 +64	453 +39	265 +15	125 +14
MORRIS DEP.	61 +2	220 +19	347 -2	506 +72	425 +24	239 +22	94 +9
ROSEAU DEP.	23 -7	194 +60	261 -5	416 +61	366 +55	178 +41	49 -4
ROSEMOUNT DEP.	61 +3	187 -11	343 -2	504 +69	443 +52	281 +59	112 +13
ST. PAUL DEP. (3)	80 0	248 +11	380 -5	526 +42	452 +11	283 +26	155 +39
STAPLES DEP. (4)	38 -3	179 +9	307 -9	482 +75	384 +10	198 +12	72 -1
WASECA DEP.	69 +14	230 +20	362 +3	507 +70	439 +46	240 +9	129 +30
WESTPORT DEP.	47 -4	212 +20	336 -2	487 +49	414 +13	215 -1	87 -2

- (1) DEPARTURE FROM ST. CLOUD NORMALS  
(2) DEPARTURE FROM SPRINGFIELD NORMALS  
(3) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS  
(4) DEPARTURE FROM WADENA NORMALS

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TABLE 5.

TOTAL DEGREE DAYS (BASE 10) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER DEP. (1)	31 +5	155 +32	288 +37	439 +98	350 +52	168 +36	61 +15
CEDAR CREEK DEP.	25 -2	125 -2	233 -24	389 +41	307 +4	153 +14	57 +8
CLOQUET DEP.	1 -5	80 +21	167 +5	337 +70	266 +41	122 +46	26 +2
CROOKSTON DEP.	20 +2	162 +58	243 +16	421 +101	362 +70	164 +44	42 +5
GRAND RAPIDS DEP.	5 -7	103 +20	198 +11	356 +82	277 +49	124 +45	34 +8
LAMBERTON DEP. (2)	42 +12	160 +11	299 -4	437 +92	366 +64	192 +59	77 +13
MORRIS DEP.	35 +6	147 +17	264 -2	420 +72	339 +23	167 +25	53 +8
ROSEAU DEP.	8 -4	122 +42	175 -9	344 +75	266 +39	118 +42	22 -3
ROSEMOUNT DEP.	33 +5	124 +44	261 -5	417 +69	357 +52	201 +60	66 +11
ST. PAUL DEP. (3)	40 -2	174 +13	297 -5	438 +40	366 +11	205 -9	103 +37
STAPLES DEP. (4)	18 +2	112 +7	226 -7	396 +75	298 +10	130 +16	37 0
WASECA DEP.	40 +16	157 +23	279 +4	421 +70	353 +45	166 +16	84 +30
WESTPORT DEP.	23 0	143 +21	253 -2	401 +49	328 +13	145 +7	51 +4

- (1) DEPARTURE FROM ST. CLOUD NORMALS  
(2) DEPARTURE FROM SPRINGFIELD NORMALS  
(3) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS  
(4) DEPARTURE FROM WADENA NORMALS

(TEMPERATURE NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY THE NATIONAL CLIMATIC CENTER.)

TABLE 6.

TOTAL DEGREE DAYS (BASE 10/30) AND DEPARTURE FROM NORMAL  
(DEGREES CELSIUS)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
BECKER	63	193	295	407	343	204	110
DEP. (1)	+12	+41	+ 39	+68	+44	+45	+35
CEDAR CREEK	64	179	260	374	307	203	116
DEP.	+12	+23	-1	+30	+3	+42	+38
CLOQUET	26	149	202	323	272	168	76
DEP.	+2	+55	+20	+53	+38	+54	+25
CROOKSTON	44	198	258	393	345	197	95
DEP.	+5	+63	+22	+73	+51	+47	+30
GRAND RAPIDS	38	159	219	348	280	163	85
DEP.	6	+45	+17	+72	+43	+46	+31
LAMBERTON	79	208	300	412	360	226	134
DEP. (2)	+30	+32	-3	+44	+34	+37	+40
MORRIS	59	190	270	406	333	200	110
DEP.	+6	+32	0	+60	+18	+32	+37
ROSEAU	25	182	216	335	269	169	74
DEP.	-5	+72	+15	+64	+30	+57	+25
ROSEMOUNT	71	159	274	402	349	226	126
DEP.	+18	+3	+8	+25	+44	+57	+42
ST. PAUL	81	203	302	421	361	227	143
DEP. (3)	+12	+19	0	+34	+12	+30	+47
STAPLES	46	165	243	377	299	168	95
DEP. (4)	+6	+29	+2	+57	+9	+23	+30
WASECA	68	189	286	406	350	209	125
DEP.	+16	+26	+9	+57	+42	+35	+40
WESTPORT	54	184	274	372	320	185	101
DEP.	+6	+33	+14	+25	+6	+20	+24

- (1) DEPARTURE FROM ST. CLOUD NORMALS  
(2) DEPARTURE FROM SPRINGFIELD NORMALS  
(3) DEPARTURE FROM MINNEAPOLIS/ST. PAUL INTNL. AIRPORT NORMALS  
(4) DEPARTURE FROM WADENA NORMALS

(TEMPERATURE NORMALS IN THIS TABLE HAVE BEEN CORRECTED FOR TIME OF OBSERVATION AND MAY THEREFORE DIFFER FROM THOSE PUBLISHED BY THE NATIONAL CLIMATIC CENTER.)

FIGURE 1  
BECKER 1989

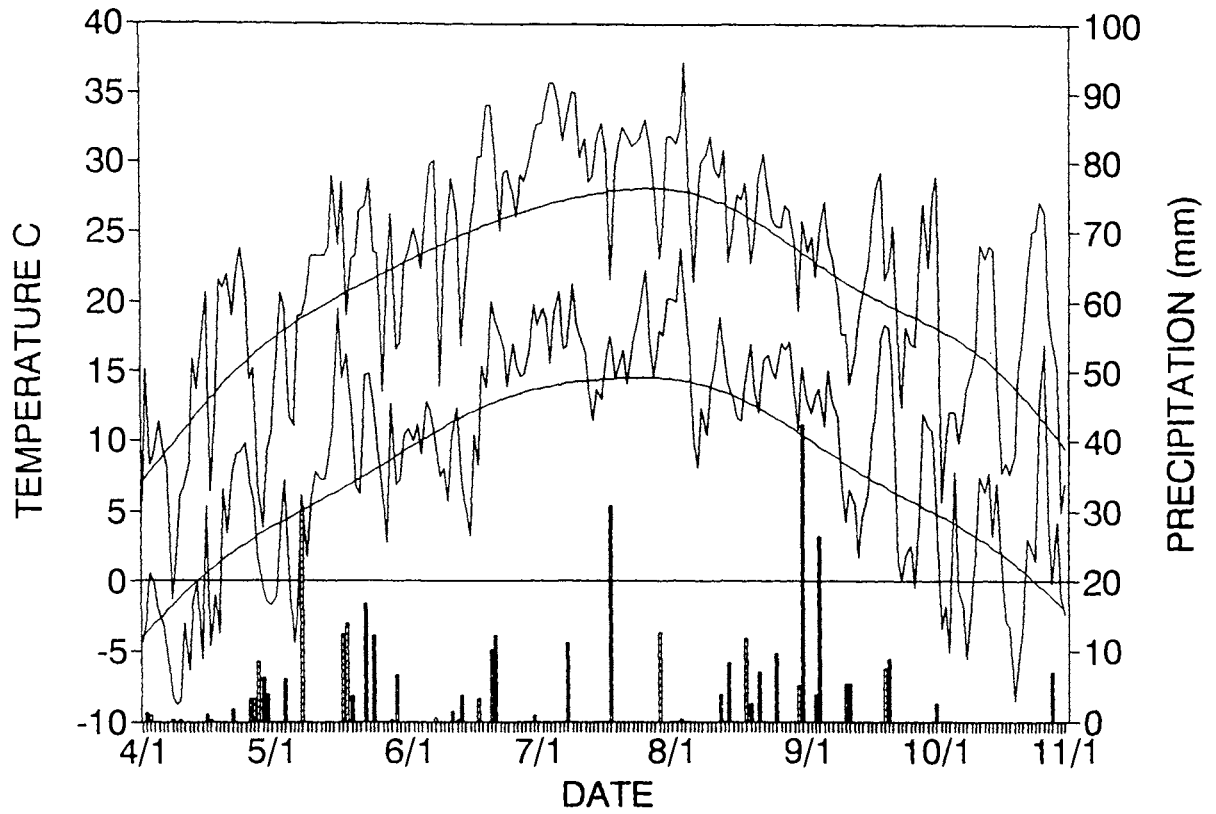


FIGURE 2  
CEDAR CREEK 1989

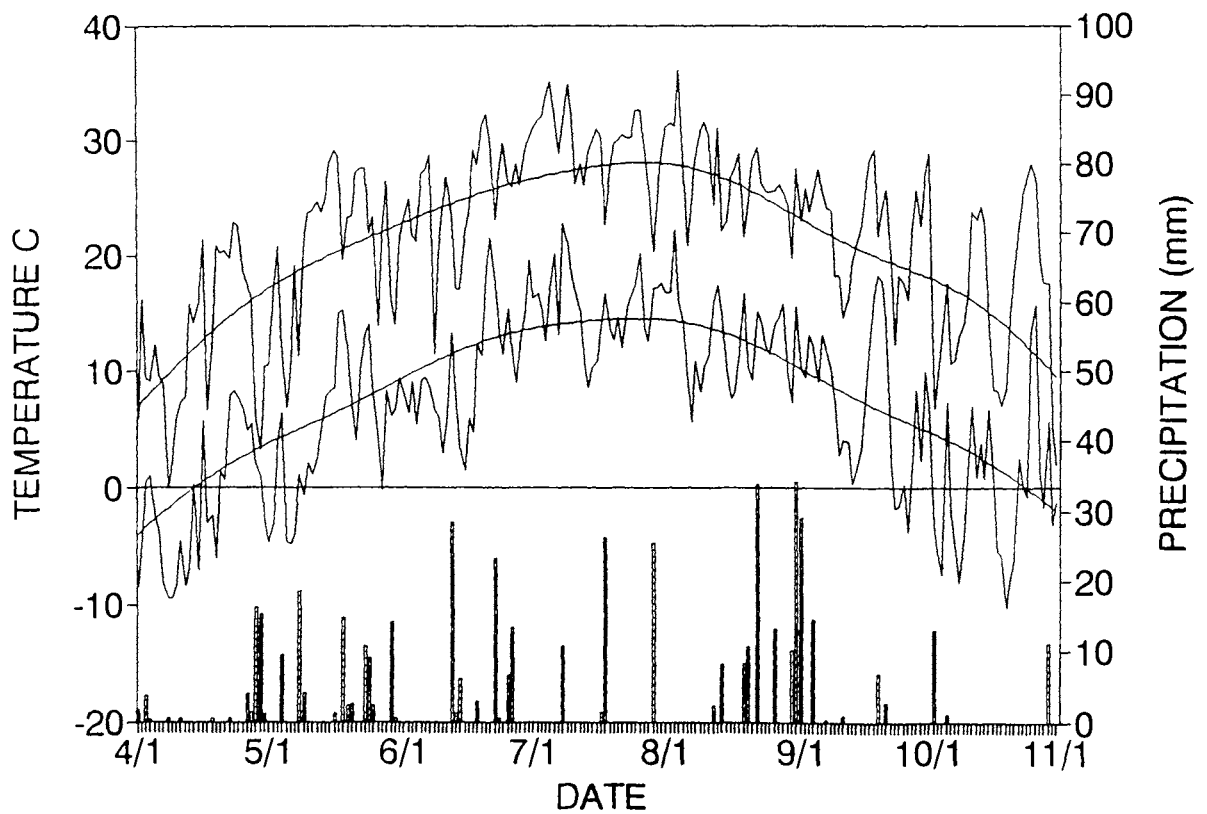


FIGURE 3  
CLOQUET 1989

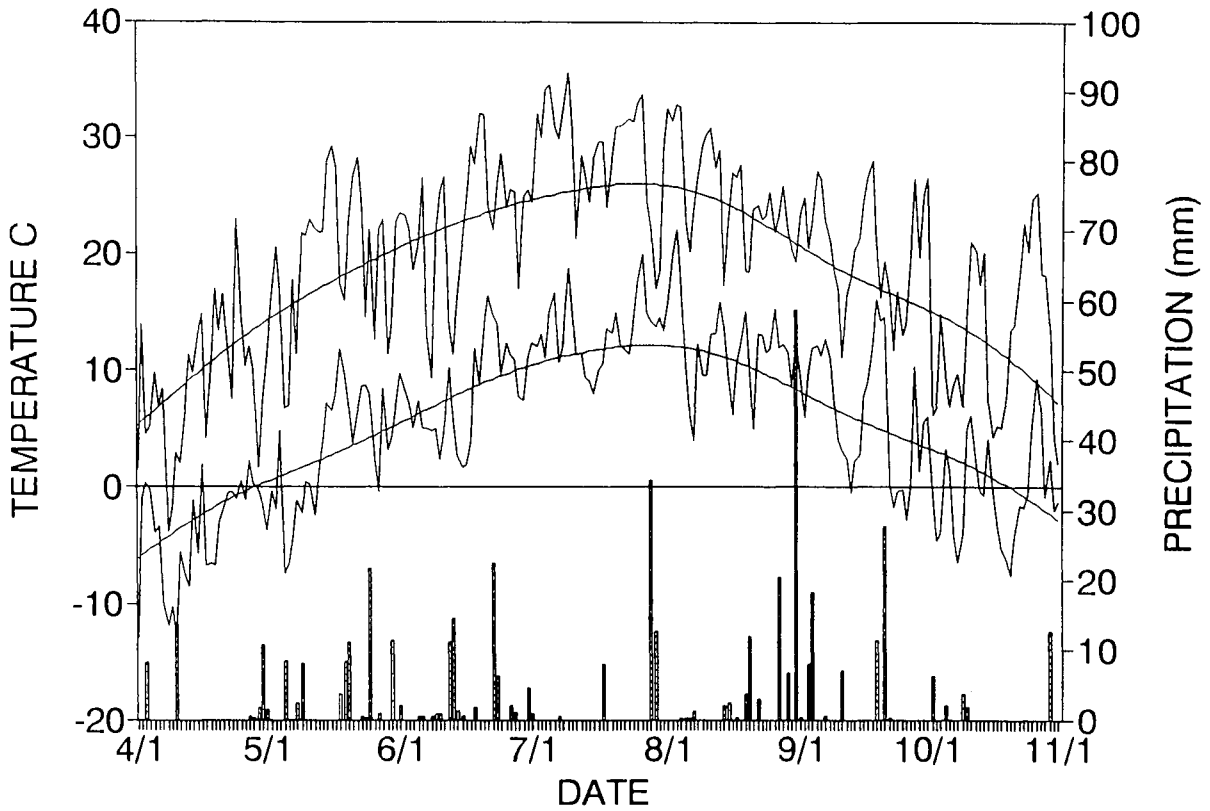


FIGURE 4  
CROOKSTON 1989

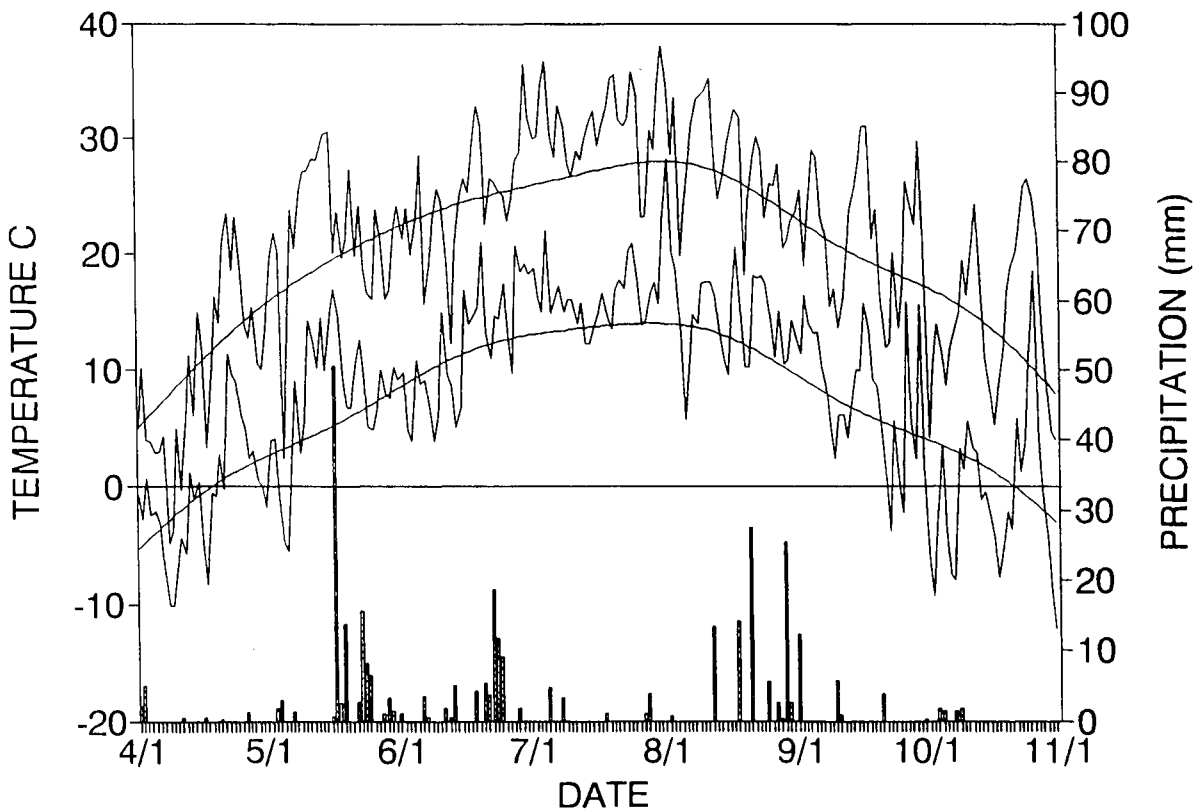


FIGURE 5  
GRAND RAPIDS 1989

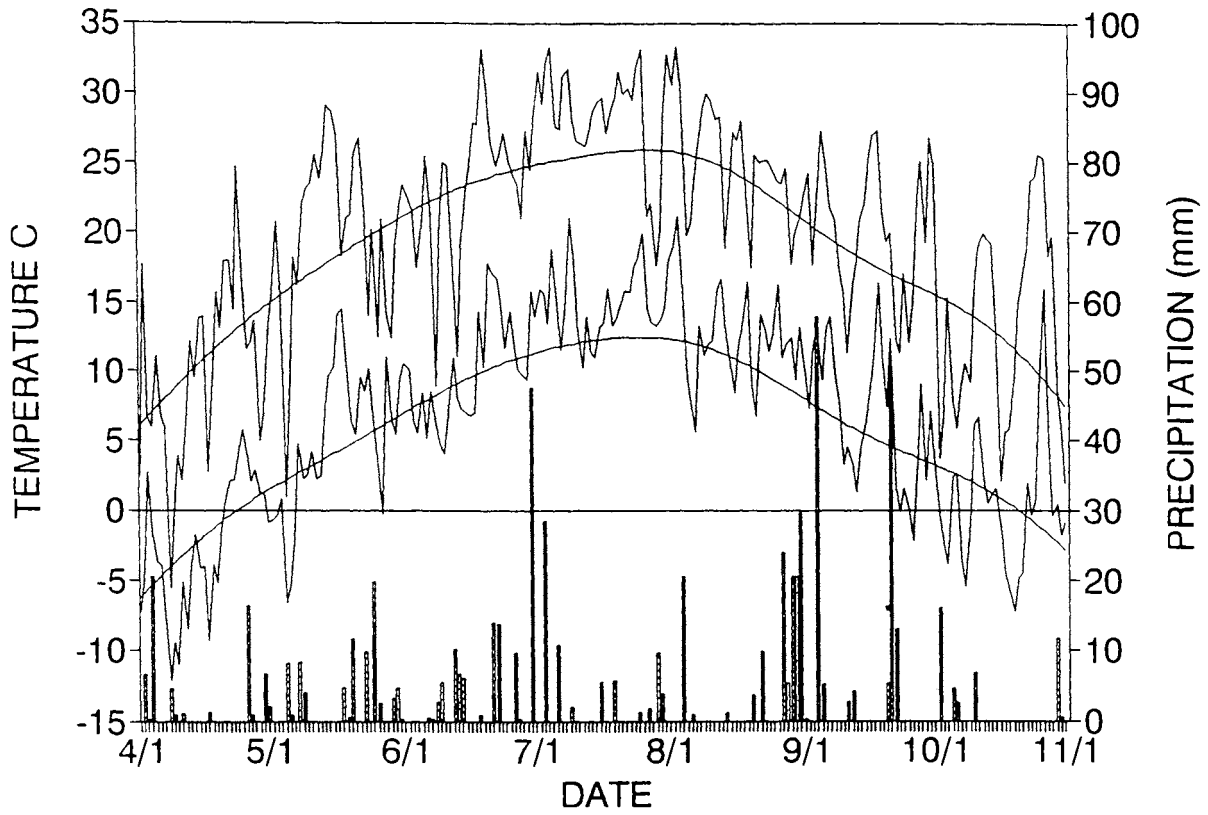


FIGURE 6  
LAMBERTON 1989

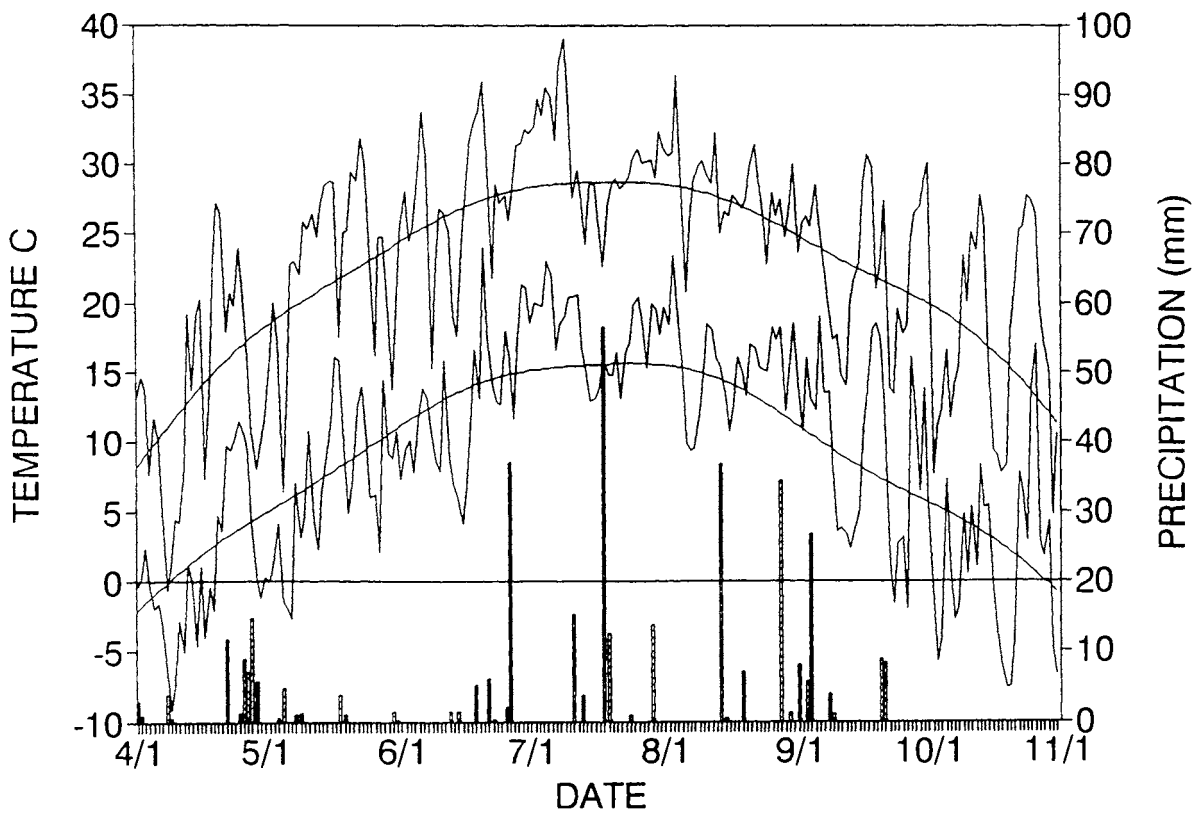


FIGURE 7  
MORRIS 1989

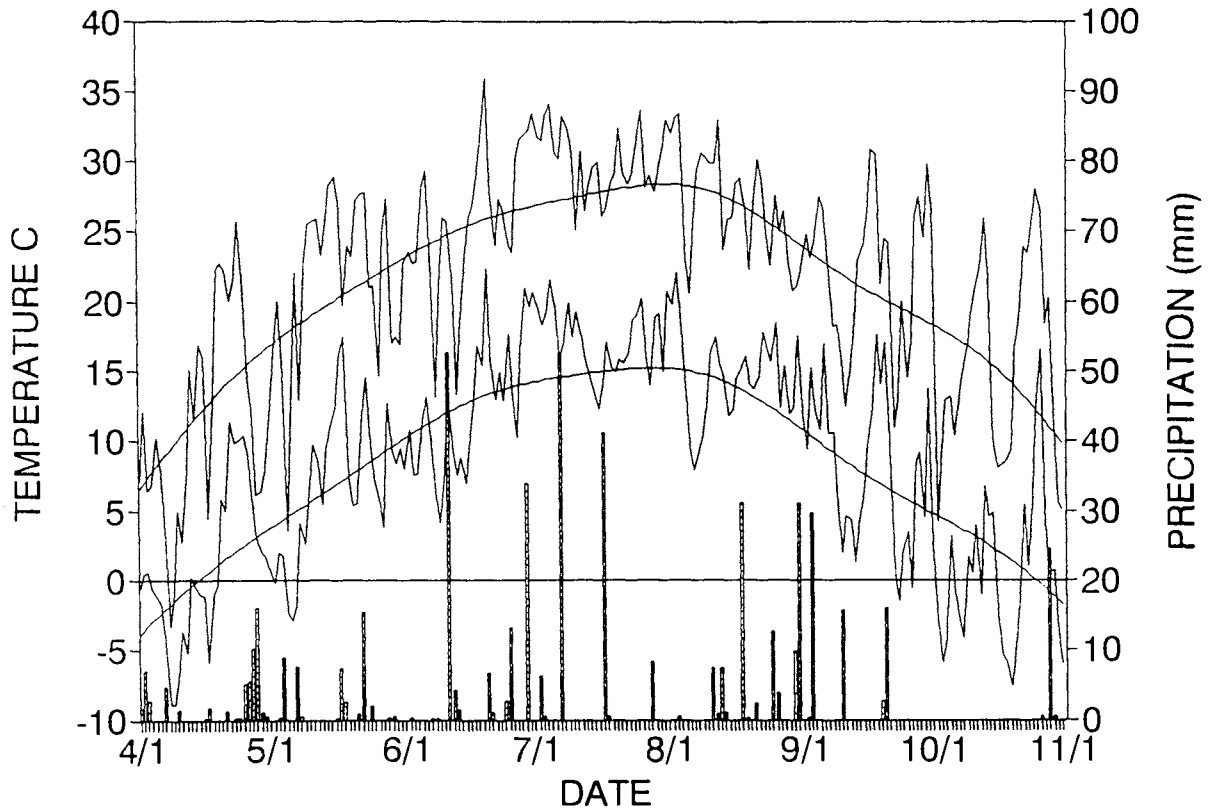


FIGURE 8  
ROSEAU 1989

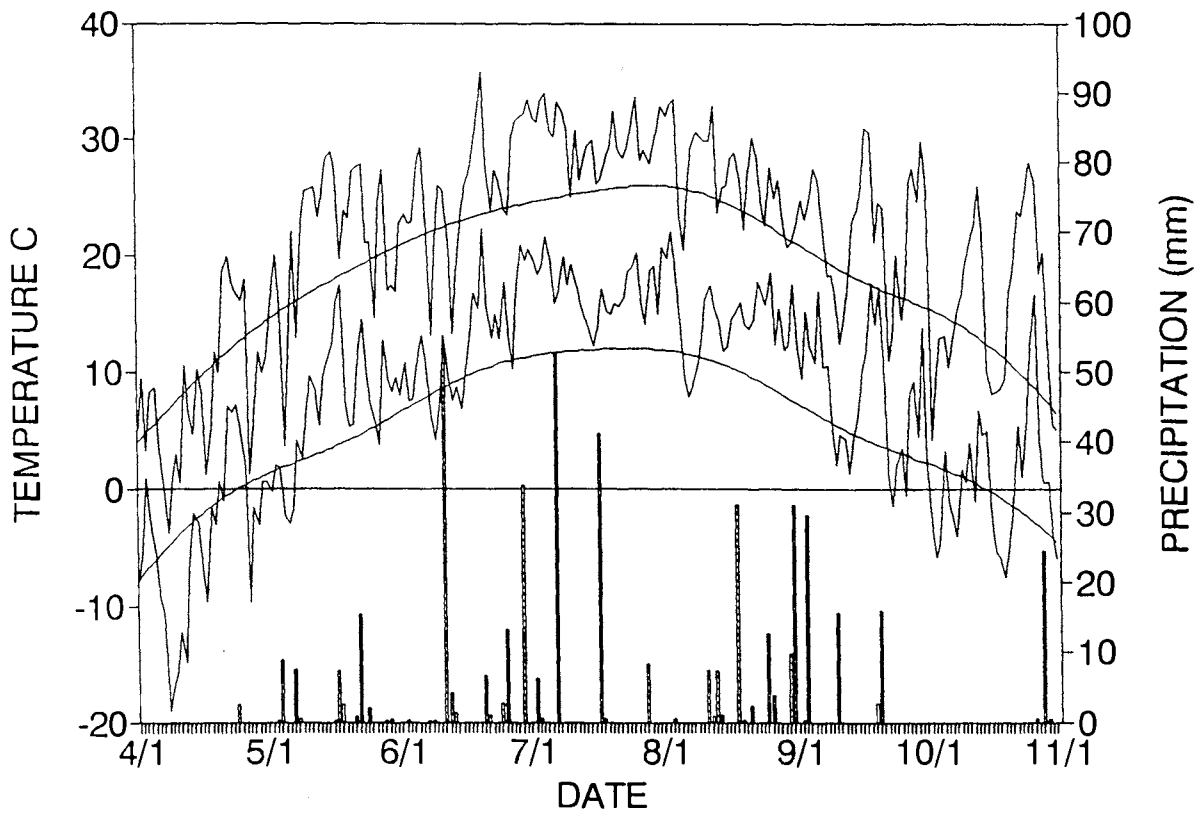


FIGURE 9  
ROSEMOUNT 1989

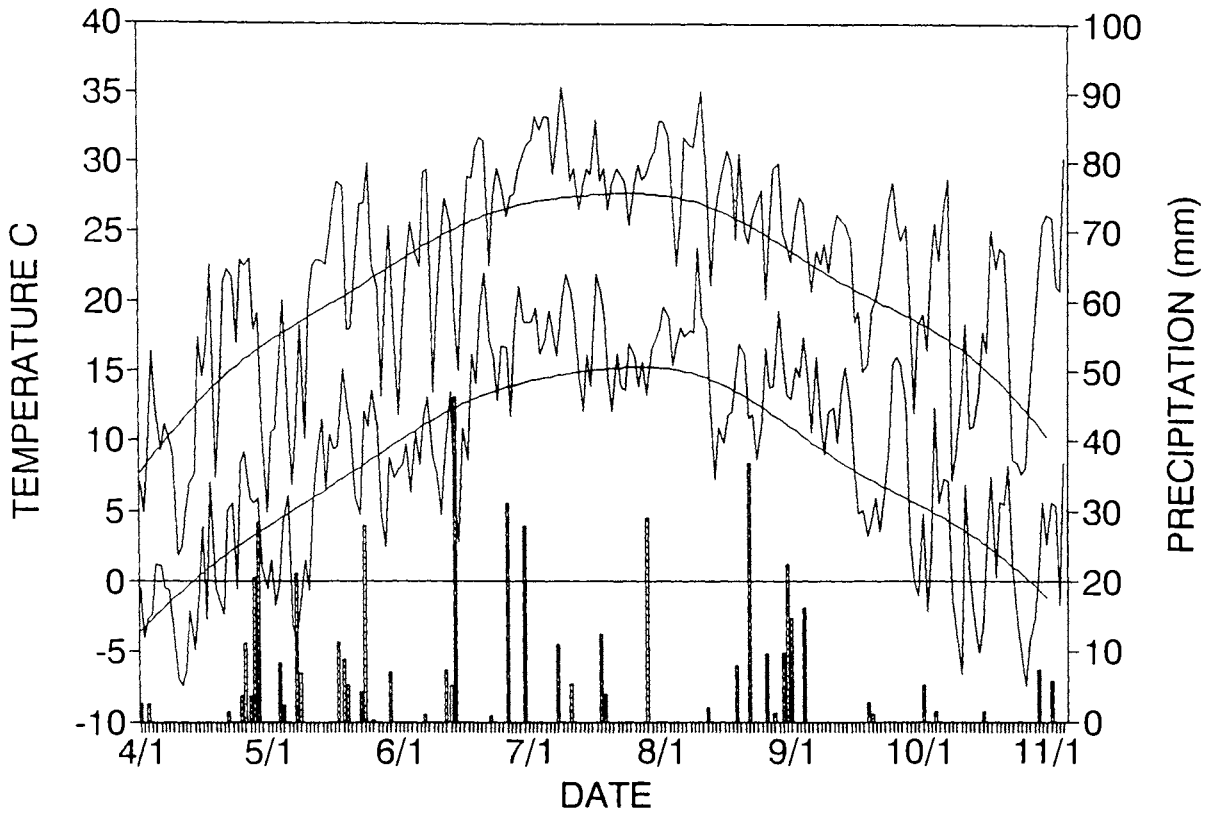


FIGURE 10  
ST. PAUL 1989

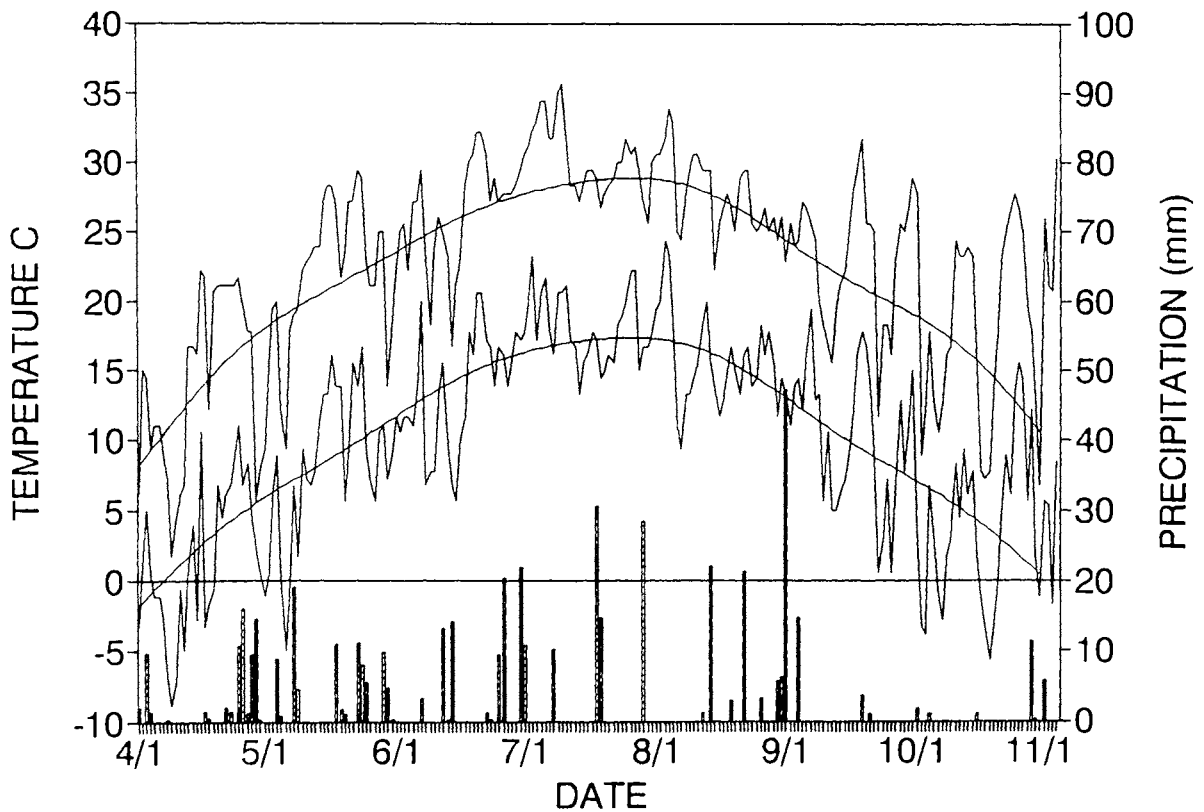


FIGURE 11  
STAPLES 1989

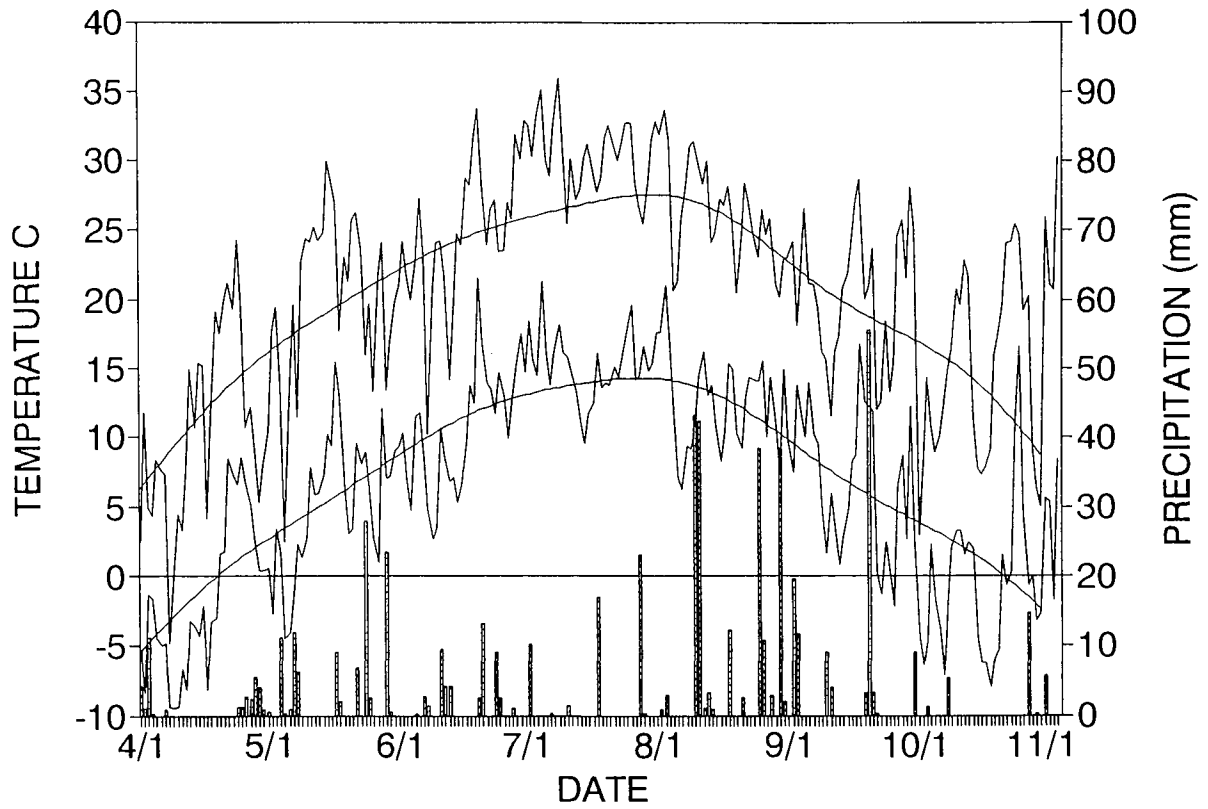


FIGURE 12  
WASECA 1989

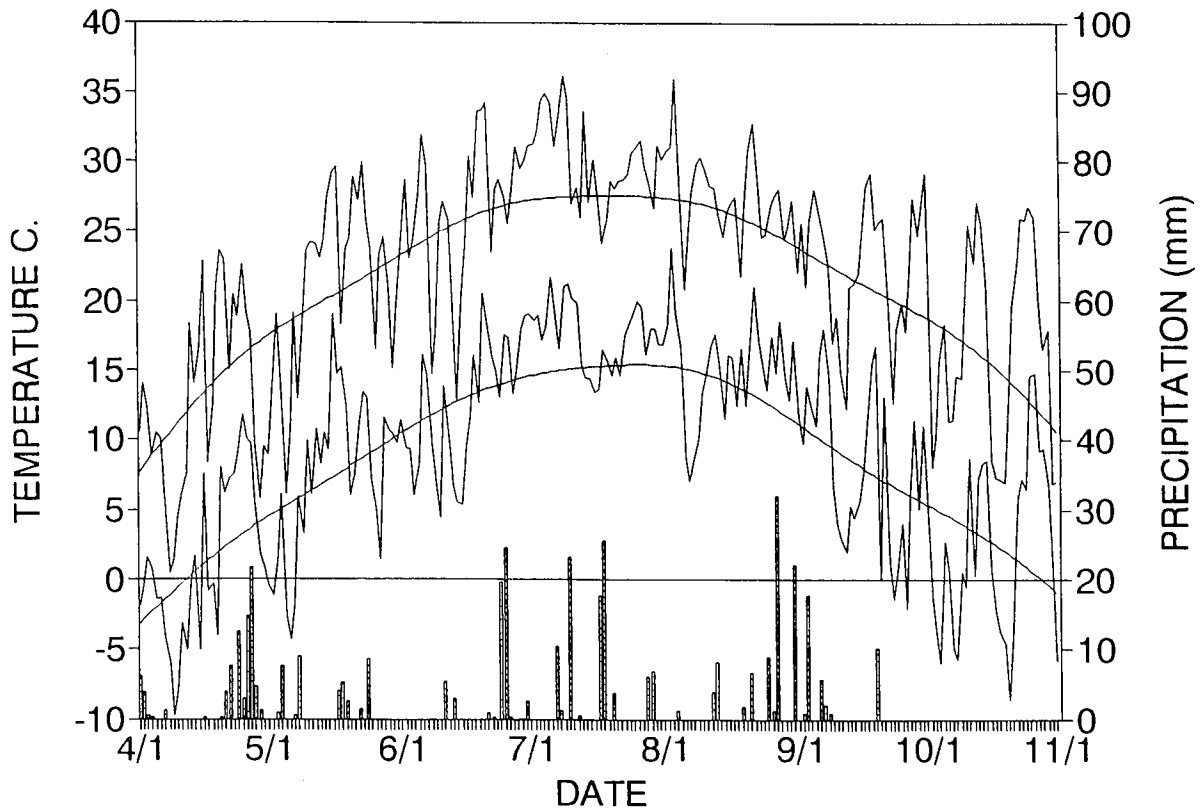
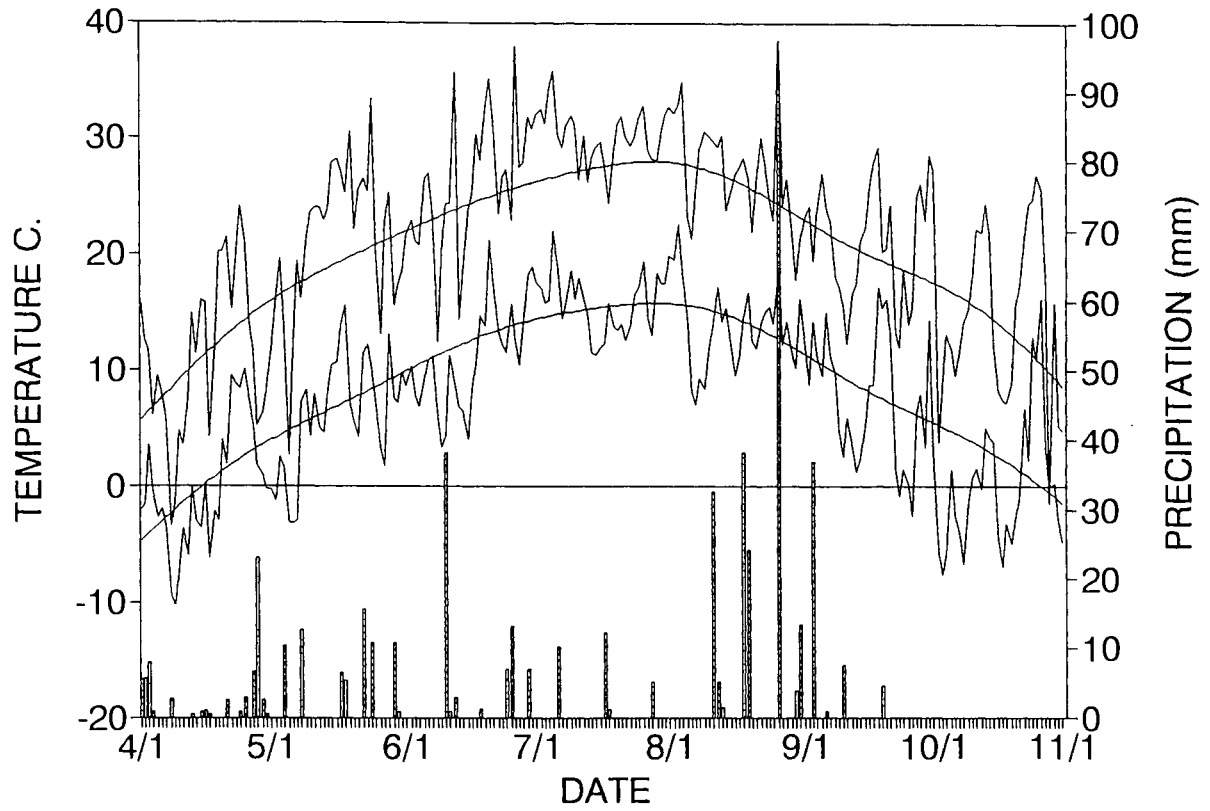
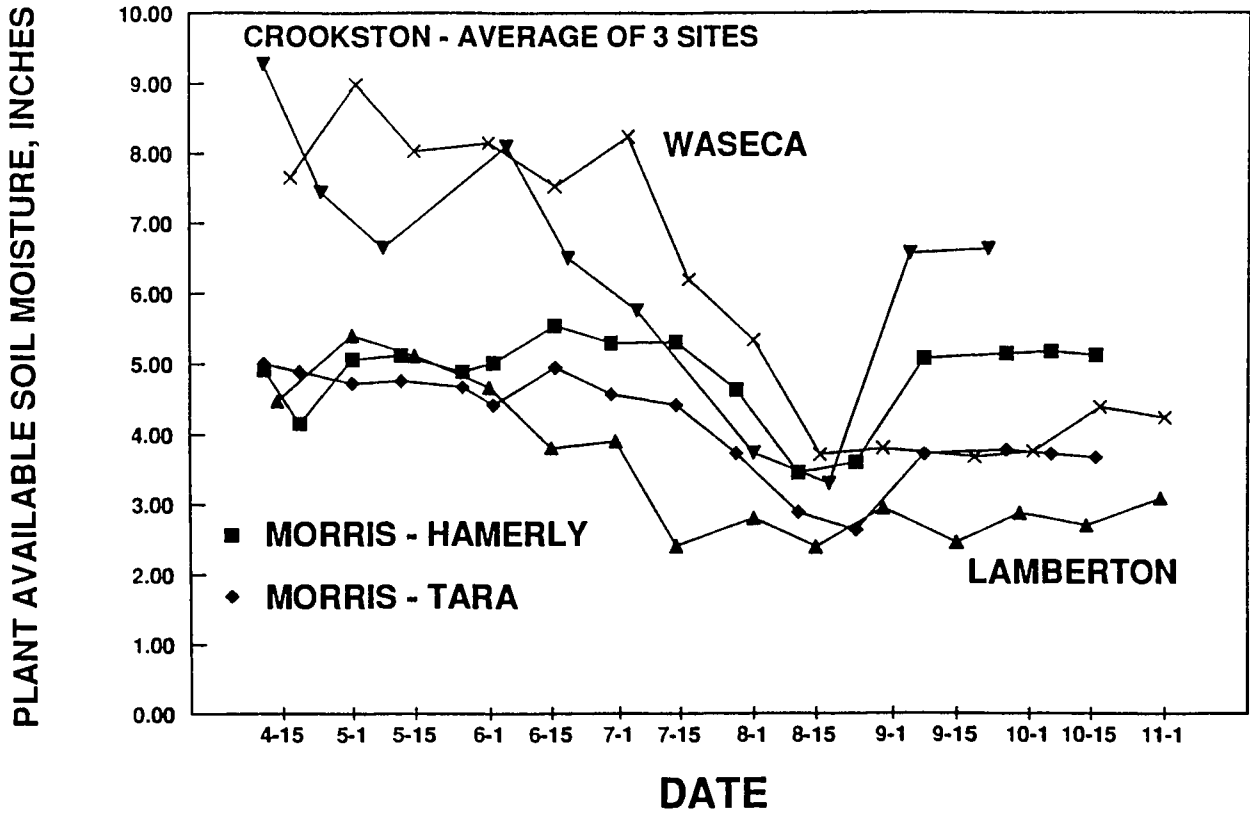




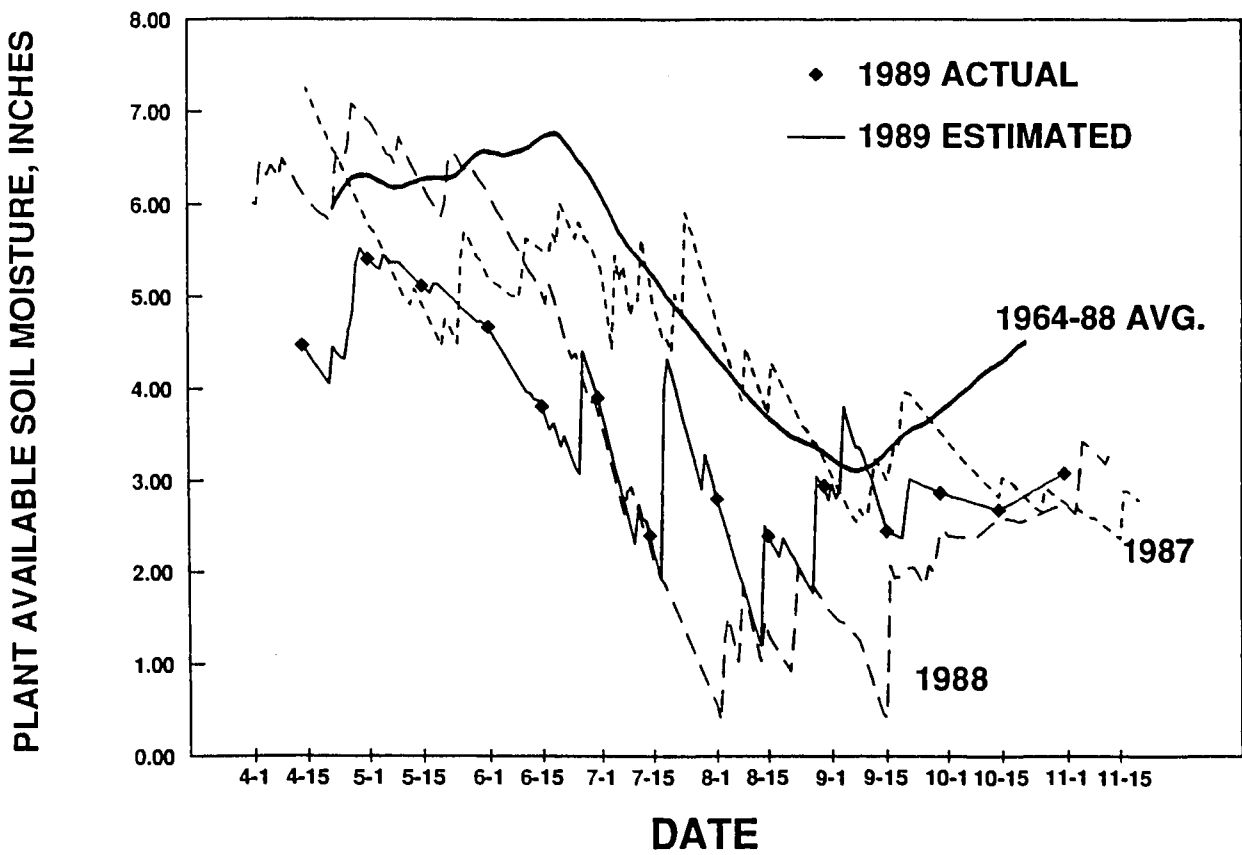
FIGURE 13  
WESTPORT 1989



**FIGURE 14  
1989 SOIL MOISTURE**



**FIGURE 15  
LAMBERTON SOIL MOISTURE: 5-FOOT PROFILE**



BECKER

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	5.6	-4.4	0.0	M	1.10	203	2.4	-1.2	-1.2	M	M	M	0	0
02-Apr-89	15.1	-2.9	1.3	M	4.86	172	1.8	3.6	-1.2	M	M	M	0	3
03-Apr-89	8.2	0.6	0.8	M	1.26	237	2.4	2.0	-0.5	M	M	M	0	3
04-Apr-89	9.1	-0.2	0.0	M	3.93	338	4.0	5.0	-0.9	M	M	M	0	3
05-Apr-89	11.3	-2.4	0.0	M	5.18	309	1.5	5.7	-1.2	M	M	M	0	3
06-Apr-89	9.4	-3.1	0.0	M	6.16	345	2.3	6.5	-1.2	M	M	M	0	3
07-Apr-89	8.1	-5.1	0.0	M	4.18	212	2.1	4.6	-1.1	M	M	M	0	3
08-Apr-89	-1.3	-8.3	0.3	M	4.65	334	4.4	0.8	-1.1	M	M	M	0	3
09-Apr-89	1.6	-8.8	0.0	M	5.97	325	4.2	0.4	-1.8	M	M	M	0	3
10-Apr-89	6.0	-8.5	0.3	M	6.35	271	2.5	4.1	-1.5	M	M	M	0	3
11-Apr-89	6.7	-3.0	0.0	M	6.24	311	2.8	7.6	-0.8	M	M	M	0	3
12-Apr-89	8.4	-6.4	0.0	M	6.79	333	0.9	8.2	-0.9	M	M	M	0	3
13-Apr-89	15.8	-1.5	0.0	M	4.24	203	3.4	7.7	0.3	M	M	M	0	6
14-Apr-89	13.6	-0.1	0.0	M	6.79	319	2.8	10.7	1.9	M	M	M	0	8
15-Apr-89	17.6	-5.5	0.0	M	6.26	192	3.7	10.9	1.1	M	M	M	0	12
16-Apr-89	20.6	5.3	1.0	M	4.95	314	3.4	13.7	6.5	M	M	M	3	17
17-Apr-89	6.4	-4.6	0.3	M	7.01	350	2.9	11.6	3.3	M	M	M	3	17
18-Apr-89	12.3	-1.0	0.0	M	5.43	284	2.3	11.3	3.6	M	M	M	3	18
19-Apr-89	21.6	-3.8	0.0	M	6.34	231	2.3	13.8	2.7	M	M	M	3	24
20-Apr-89	20.9	6.6	0.0	M	5.46	93	1.0	15.2	6.3	M	M	M	7	29
21-Apr-89	21.9	3.4	0.0	M	6.63	107	1.3	16.5	7.0	M	M	M	9	35
22-Apr-89	18.9	7.8	1.8	M	4.55	128	3.1	15.8	9.4	M	M	M	13	40
23-Apr-89	22.0	9.1	0.0	M	4.88	128	2.9	17.7	9.9	M	M	M	18	46
24-Apr-89	23.8	9.2	0.0	M	5.43	133	1.6	18.4	10.2	M	M	M	25	53
25-Apr-89	21.3	9.8	0.0	M	4.27	20	1.5	17.2	11.2	M	M	M	30	58
26-Apr-89	14.3	6.9	3.3	1.8	1.73	37	2.0	12.8	9.8	M	M	M	31	60
27-Apr-89	15.2	5.8	3.3	3.3	2.75	43	3.5	12.6	8.0	M	M	M	31	63
28-Apr-89	6.9	1.7	8.6	0.0	0.72	43	3.2	8.0	5.0	M	M	M	31	63
29-Apr-89	3.7	-0.6	6.3	0.0	2.05	20	4.0	5.6	2.7	M	M	M	31	63
30-Apr-89	9.2	-1.5	3.8	0.3	3.62	324	1.1	8.2	1.8	M	M	M	31	63
MEAN	12.5	-0.2	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
			31.0	M	4.66	212	2.6	9.2	2.9	M	M	M	31	63

01-May-89	* 10.6	-1.7	0.0	2.3	M	M	M	M	M	M	M	M	31	63
02-May-89	* 15.6	-1.1	0.0	4.6	M	M	M	M	M	M	M	M	31	66
03-May-89	* 20.6	3.9	0.0	7.6	M	M	M	M	M	M	M	M	34	71
04-May-89	* 19.4	7.2	6.1	0.8	M	M	M	M	M	M	M	M	37	76
05-May-89	* 11.7	-0.6	0.0	4.1	M	M	M	M	M	M	M	M	37	77
06-May-89	* 11.1	-4.4	0.0	4.1	M	M	M	M	M	M	M	M	37	77
07-May-89	* 18.9	-1.7	0.0	4.3	M	M	M	M	M	M	M	M	37	82
08-May-89	* 18.9	6.1	30.0	1.3	M	M	M	M	M	M	M	M	39	86
09-May-89	* 20.6	1.7	0.0	4.1	M	M	M	M	M	M	M	M	41	92
10-May-89	* 23.3	5.6	0.0	6.3	M	M	M	M	M	M	M	M	45	98
11-May-89	* 23.3	7.8	0.0	6.9	M	M	M	M	M	M	M	M	51	105
12-May-89	* 23.3	7.2	0.0	6.9	M	M	M	M	M	M	M	M	56	112
13-May-89	* 23.3	7.2	0.0	6.9	M	M	M	M	M	M	M	M	61	118
14-May-89	* 23.9	8.9	0.0	6.9	M	M	M	M	M	M	M	M	67	125
15-May-89	29.0	11.0	0.0	6.1	6.59	M	0.6	27.9	16.1	89	36	1.36	77	135
16-May-89	24.0	19.4	0.0	9.1	7.55	M	1.1	25.3	21.6	61	42	1.31	89	147
17-May-89	28.5	14.4	12.4	9.9	6.03	M	3.9	26.0	M	94	34	1.40	101	158
18-May-89	18.9	16.2	14.0	0.8	1.03	M	1.4	21.6	17.0	99	94	1.95	108	166
19-May-89	23.1	12.2	3.6	6.3	2.80	M	1.3	21.3	16.1	99	80	1.96	116	174
20-May-89	23.3	6.7	0.0	6.3	8.24	M	2.0	26.6	10.0	98	29	1.01	121	180
21-May-89	26.5	6.2	0.0	6.3	7.73	M	0.8	29.4	13.2	98	28	1.10	127	189
22-May-89	26.8	14.7	16.8	9.9	7.23	M	2.8	30.3	18.1	99	41	1.45	138	199
23-May-89	28.8	14.8	0.0	4.8	6.15	M	2.5	26.9	11.7	99	56	1.99	150	211
24-May-89	23.5	12.8	12.2	3.0	0.96	M	2.1	20.6	16.1	99	76	1.93	158	219
25-May-89	23.4	9.6	0.0	8.4	7.69	M	3.1	27.1	13.0	95	24	1.06	164	226
26-May-89	13.5	6.0	0.0	5.8	4.73	M	3.2	20.5	13.6	80	52	0.82	164	228
27-May-89	21.7	2.7	0.0	6.1	8.41	M	1.4	28.2	M	100	35	0.91	167	234
28-May-89	26.3	12.7	0.3	6.1	7.72	M	4.5	28.9	15.4	82	43	1.23	176	243
29-May-89	16.5	6.8	6.6	3.3	1.17	M	2.3	20.7	M	99	82	1.44	178	246
30-May-89	17.1	7.2	0.0	2.3	2.82	M	2.5	18.1	12.0	99	79	1.29	180	250
31-May-89	22.7	10.4	0.0	4.1	5.64	M	1.2	25.8	12.8	91	41	1.12	186	256
MEAN	21.2	7.4	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
			101.9	165.6	M	M	M	M	M	M	M	M	155	193

BECKER

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	23.4	10.9	0.0	5.8	7.07	M	1.2	27.3	15.0	100	43	1.34	194	264
02-Jun-89	25.2	9.9	0.0	6.3	5.23	M	1.6	26.9	15.8	97	51	1.37	201	271
03-Jun-89	24.1	11.2	0.0	6.3	8.11	M	1.7	29.8	16.1	94	37	1.15	209	279
04-Jun-89	22.3	9.0	0.0	6.6	8.49	M	1.5	29.5	16.4	76	24	0.81	214	285
05-Jun-89	27.4	12.8	0.0	3.6	4.68	M	1.8	25.3	17.9	94	35	1.18	225	295
06-Jun-89	29.8	12.1	0.0	3.8	8.11	M	0.5	31.2	17.3	98	35	1.47	236	306
07-Jun-89	30.1	10.2	0.5	9.1	7.65	M	2.8	30.7	20.7	90	43	1.66	246	316
08-Jun-89	13.9	7.4	0.0	2.3	2.33	M	2.3	23.2	16.8	99	72	1.08	246	318
09-Jun-89	22.4	8.1	0.0	5.3	6.24	M	1.7	26.8	15.6	97	41	1.08	252	324
10-Jun-89	26.1	5.6	0.0	5.3	8.37	M	1.2	29.2	15.4	100	31	1.10	257	332
11-Jun-89	28.8	10.2	1.5	5.3	5.96	M	2.3	28.2	17.6	87	42	1.48	267	342
12-Jun-89	26.2	12.4	0.3	6.1	5.21	M	3.3	28.4	20.1	99	56	1.78	276	351
13-Jun-89	16.8	7.4	3.6	2.3	2.35	M	1.3	20.6	16.1	97	59	1.12	278	354
14-Jun-89	20.5	5.5	0.0	4.1	5.70	M	2.7	24.9	13.9	100	41	1.04	281	360
15-Jun-89	25.1	3.2	0.0	5.1	7.13	M	0.7	28.5	12.1	100	30	1.01	285	367
16-Jun-89	26.9	10.4	0.0	6.9	8.47	M	1.0	31.6	16.8	93	30	1.12	294	376
17-Jun-89	30.4	8.2	3.3	7.1	7.33	M	1.6	30.5	17.4	95	37	1.43	303	386
18-Jun-89	30.4	15.4	0.0	7.1	7.33	M	1.3	33.8	21.2	98	28	1.75	316	399
19-Jun-89	34.1	13.8	0.0	9.7	8.22	M	1.5	35.8	20.5	96	25	1.53	330	411
20-Jun-89	34.1	20.0	10.2	12.2	7.33	M	4.8	34.0	23.5	71	34	1.65	347	425
21-Jun-89	30.9	18.7	12.2	6.1	4.48	M	3.0	28.9	22.2	97	43	2.38	362	440
22-Jun-89	25.0	17.6	0.0	2.8	3.29	M	0.9	26.2	21.0	97	62	2.00	373	451
23-Jun-89	29.2	16.6	0.0	5.1	7.25	M	0.7	34.6	19.5	94	38	1.69	386	464
24-Jun-89	29.4	13.9	0.0	5.1	5.05	M	0.7	32.5	19.9	100	39	1.82	398	476
25-Jun-89	27.7	17.0	0.0	4.8	4.57	M	2.0	28.5	20.6	98	62	2.17	410	488
26-Jun-89	26.1	15.4	0.0	5.3	5.74	M	1.5	28.3	19.8	99	50	1.94	421	499
27-Jun-89	29.1	14.6	0.0	7.4	8.47	M	1.3	34.6	17.5	85	35	1.51	433	511
28-Jun-89	28.6	14.8	0.0	7.6	7.89	M	1.4	35.2	20.6	86	54	1.78	445	522
29-Jun-89	30.0	16.6	0.0	7.4	7.13	M	3.8	34.7	22.4	96	58	2.17	458	536
30-Jun-89	31.6	19.8	0.8	7.1	6.77	M	2.5	35.6	23.7	95	61	2.45	474	551

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
26.8	12.3	32.3	179.1	6.40	M	1.8	29.8	18.4	94	43	1.54	288	295

01-Jul-89	32.7	18.3	0.0	7.1	6.88	M	1.3	35.7	23.7	99	56	2.52	489	565
02-Jul-89	32.8	19.5	0.0	7.1	7.87	M	2.8	36.9	24.6	97	53	2.57	505	580
03-Jul-89	34.4	18.7	0.0	9.1	8.19	M	1.6	37.8	26.2	92	29	1.99	522	594
04-Jul-89	35.7	15.6	0.0	8.9	8.11	M	1.0	38.1	25.2	98	31	2.00	538	607
05-Jul-89	35.7	19.3	0.0	10.9	8.09	M	3.2	37.7	26.1	90	43	2.26	555	621
06-Jul-89	34.1	20.7	0.0	7.6	7.50	M	2.6	36.9	27.7	76	39	2.19	572	637
07-Jul-89	31.5	16.6	0.0	7.4	8.03	M	1.1	36.7	25.7	80	25	1.48	586	650
08-Jul-89	33.0	16.8	11.2	7.4	5.82	M	1.8	34.1	23.6	99	58	2.43	601	663
09-Jul-89	35.1	21.3	0.0	7.6	6.65	M	1.9	38.4	24.4	97	57	2.95	619	679
10-Jul-89	35.0	18.5	0.0	9.1	7.87	M	0.9	39.8	24.8	96	37	2.21	636	693
11-Jul-89	30.3	17.5	0.0	6.3	5.08	M	1.4	35.5	27.0	94	61	2.25	650	707
12-Jul-89	31.7	16.3	0.0	6.6	6.85	M	0.8	36.7	25.2	94	48	2.03	664	720
13-Jul-89	28.5	13.7	0.0	8.1	7.19	M	1.2	35.3	25.3	95	38	1.53	675	731
14-Jul-89	29.0	11.4	0.0	6.1	4.81	M	0.6	30.7	23.5	97	35	1.45	685	741
15-Jul-89	31.6	13.7	0.0	6.1	6.99	M	0.5	34.1	22.3	97	30	1.52	698	753
16-Jul-89	32.8	12.9	0.0	6.1	7.09	M	1.1	34.1	22.9	98	26	1.52	711	765
17-Jul-89	30.7	16.1	0.0	8.4	6.81	M	1.2	34.3	24.7	96	37	1.83	724	778
18-Jul-89	21.6	17.5	30.7	2.0	2.07	M	2.3	28.1	20.9	98	80	2.10	734	787
19-Jul-89	29.6	14.4	0.0	6.9	7.34	M	1.6	33.3	19.0	98	37	1.77	746	799
20-Jul-89	31.3	15.5	0.0	6.1	6.01	M	1.4	33.4	20.9	96	41	1.93	759	812
21-Jul-89	32.5	16.5	0.0	6.3	7.12	M	0.6	36.2	22.0	98	37	1.93	774	825
22-Jul-89	32.0	14.1	0.0	6.6	7.28	M	0.7	36.2	22.6	98	35	1.79	787	837
23-Jul-89	31.1	17.0	0.0	6.6	6.56	M	1.1	35.3	24.0	96	49	2.23	801	851
24-Jul-89	31.4	18.3	0.0	7.4	6.54	M	1.9	34.9	24.7	97	53	2.36	816	865
25-Jul-89	31.8	20.0	0.0	5.6	6.59	M	2.0	35.4	25.3	96	54	2.54	832	880
26-Jul-89	33.1	22.2	0.0	9.1	6.97	M	2.6	36.2	26.3	95	48	2.66	849	896
27-Jul-89	31.2	16.7	0.0	10.4	7.60	M	2.6	36.6	26.8	94	35	1.94	863	909
28-Jul-89	28.5	14.5	0.0	4.1	6.96	M	1.2	35.1	24.6	97	47	1.79	875	921
29-Jul-89	23.1	17.9	12.7	4.1	2.01	M	0.8	28.3	22.8	98	82	2.24	885	931
30-Jul-89	25.8	17.5	0.0	3.8	3.40	M	0.6	26.9	21.5	97	80	2.31	897	943
31-Jul-89	31.8	20.2	0.0	3.6	3.69	M	0.5	30.8	22.2	96	52	2.52	913	958

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
31.3	17.1	54.6	212.6	6.45	M	1.4	34.8	24.1	95	46	2.09	439	407

BECKER

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	31.9	20.2	0.0	8.1	6.84	M	2.7	35.9	22.5	96	62	2.72	929	973
02-Aug-89	31.3	20.0	0.0	7.6	6.30	M	4.3	34.7	24.2	95	66	2.74	945	988
03-Aug-89	32.4	23.8	0.3	4.1	4.10	M	2.7	33.1	26.2	95	69	3.13	963	1005
04-Aug-89	37.2	20.5	0.0	7.9	5.94	M	1.0	36.4	25.2	96	18	2.15	982	1020
05-Aug-89	26.8	16.5	0.0	7.9	6.76	M	2.7	33.9	24.2	84	43	1.57	993	1032
06-Aug-89	21.4	9.8	0.0	7.6	5.17	M	2.6	28.5	22.0	97	40	1.10	999	1038
07-Aug-89	26.7	8.1	0.0	4.6	7.41	M	1.1	32.1	19.3	97	26	1.11	1006	1046
08-Aug-89	30.0	12.4	0.0	9.9	7.15	M	1.1	33.3	21.2	89	17	1.12	1017	1057
09-Aug-89	30.6	10.4	0.0	8.1	7.19	M	1.0	33.8	21.4	98	29	1.44	1028	1068
10-Aug-89	31.9	13.6	0.0	8.6	6.65	M	1.5	32.9	22.7	95	30	1.55	1041	1079
11-Aug-89	29.5	15.4	0.0	6.6	6.32	M	1.6	32.5	23.6	95	38	1.75	1053	1092
12-Aug-89	28.9	18.8	3.8	6.6	4.09	M	1.7	31.4	24.5	96	60	2.13	1067	1106
13-Aug-89	30.9	16.1	0.0	6.6	6.35	M	1.2	35.6	21.4	98	46	2.12	1080	1119
14-Aug-89	22.8	14.2	8.4	3.6	3.55	M	1.6	26.0	20.4	98	74	1.98	1089	1127
15-Aug-89	25.2	13.1	0.0	4.6	5.80	M	0.7	30.8	17.9	98	47	1.61	1098	1136
16-Aug-89	27.7	11.6	0.0	6.1	7.06	M	0.5	34.3	18.4	98	38	1.51	1108	1146
17-Aug-89	27.3	11.4	0.0	9.1	6.57	M	1.3	32.4	19.9	98	44	1.61	1117	1155
18-Aug-89	28.5	14.2	11.9	4.6	6.47	M	3.0	32.1	20.9	93	44	1.72	1128	1167
19-Aug-89	22.7	17.0	2.5	4.6	1.43	M	2.2	24.5	20.5	97	69	2.05	1138	1177
20-Aug-89	24.7	13.9	0.0	4.8	6.01	M	1.5	28.8	18.2	97	54	1.72	1148	1186
21-Aug-89	28.8	12.0	7.1	4.8	4.67	M	2.1	30.9	18.3	97	67	1.97	1158	1196
22-Aug-89	30.6	15.8	0.0	4.6	5.82	M	0.7	31.8	19.2	97	48	2.15	1171	1209
23-Aug-89	27.9	16.2	0.0	5.1	5.76	M	0.9	33.3	20.0	97	63	2.07	1183	1221
24-Aug-89	26.0	15.1	0.0	6.3	6.50	M	1.4	32.5	20.0	97	53	1.79	1194	1232
25-Aug-89	25.4	14.4	9.7	3.8	4.02	M	1.8	28.6	20.1	97	66	1.98	1204	1242
26-Aug-89	25.3	17.1	0.0	4.1	3.47	M	0.9	27.0	21.1	97	71	2.19	1215	1253
27-Aug-89	26.9	16.5	0.0	4.1	5.28	M	0.6	29.1	19.6	97	42	1.72	1227	1264
28-Aug-89	26.5	17.2	0.0	3.8	3.92	M	1.3	28.3	20.4	94	76	2.23	1238	1276
29-Aug-89	24.0	13.7	0.0	6.9	6.53	M	2.1	30.2	19.0	95	40	1.47	1247	1285
30-Aug-89	19.3	10.8	5.1	2.0	2.98	M	1.3	23.3	18.6	98	79	1.58	1252	1290
31-Aug-89	25.8	15.3	42.4	M	3.18	M	2.4	24.9	18.3	97	73	2.03	1263	1301
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	27.6	15.0	91.2	M	5.46	M	1.7	31.1	20.9	96	51	1.87	350	343

01-Sep-89	23.5	12.8	0.0	M	4.94	M	1.9	25.6	17.6	97	47	1.61	1271	1309
02-Sep-89	24.7	12.0	0.0	M	5.79	M	1.1	29.4	16.5	98	58	1.70	1279	1317
03-Sep-89	21.8	13.1	3.8	M	2.64	M	3.0	23.4	17.6	96	73	1.72	1287	1325
04-Sep-89	24.9	13.8	26.4	M	4.85	M	1.9	24.9	17.8	97	48	1.73	1296	1334
05-Sep-89	27.2	11.1	0.0	5.1	5.72	M	1.7	28.4	15.6	98	47	1.63	1305	1343
06-Sep-89	24.1	15.1	0.0	0.8	1.47	M	1.9	22.7	18.1	97	90	2.27	1315	1353
07-Sep-89	23.1	12.8	0.0	2.5	2.13	M	1.0	23.7	18.1	97	57	1.85	1323	1361
08-Sep-89	20.7	11.8	0.0	2.3	2.57	M	0.9	22.4	16.0	97	63	1.54	1329	1367
09-Sep-89	17.6	7.1	0.0	2.3	2.77	M	1.2	20.8	14.8	97	62	1.29	1331	1371
10-Sep-89	17.7	4.2	5.3	2.3	3.43	M	0.5	21.0	11.6	99	44	1.03	1332	1375
11-Sep-89	14.1	6.6	5.3	4.1	4.40	M	2.1	19.1	11.8	98	48	0.96	1333	1377
12-Sep-89	16.2	5.4	0.0	2.0	3.49	M	1.2	19.3	11.1	98	56	1.00	1333	1380
13-Sep-89	18.9	1.7	0.0	3.6	5.73	M	0.9	23.6	9.7	100	43	0.93	1334	1384
14-Sep-89	20.5	4.6	0.0	4.1	5.67	M	1.3	23.8	11.5	99	41	1.02	1336	1389
15-Sep-89	22.4	6.1	0.0	5.1	5.59	M	2.1	24.1	12.3	98	42	1.13	1341	1396
16-Sep-89	25.5	10.1	0.0	5.3	5.32	M	2.6	25.2	13.9	94	53	1.50	1348	1404
17-Sep-89	28.1	12.1	0.0	5.3	5.16	M	2.9	26.3	16.1	98	55	1.88	1358	1414
18-Sep-89	29.3	17.3	0.0	8.6	5.20	M	5.2	26.8	18.2	95	39	1.83	1372	1427
19-Sep-89	21.6	18.4	7.6	1.0	1.42	M	2.9	22.3	19.3	96	78	2.06	1382	1437
20-Sep-89	22.4	18.1	8.9	1.8	1.39	M	1.1	21.4	18.3	96	85	2.11	1392	1447
21-Sep-89	25.4	14.6	0.0	4.8	4.53	M	2.1	24.4	16.4	96	65	1.97	1402	1457
22-Sep-89	16.6	1.4	0.0	4.8	4.23	M	4.2	20.6	11.6	94	41	0.93	1402	1460
23-Sep-89	12.5	-0.0	0.0	4.8	5.06	M	1.3	20.2	8.4	94	39	0.61	1402	1462
24-Sep-89	18.2	1.9	0.0	4.8	5.05	M	3.7	20.1	8.8	90	23	0.63	1402	1466
25-Sep-89	17.0	2.5	0.0	4.1	4.94	M	1.8	21.3	11.2	95	41	0.81	1402	1469
26-Sep-89	16.8	-0.5	0.0	3.0	4.99	M	0.5	20.9	8.7	99	39	0.70	1402	1473
27-Sep-89	23.1	4.1	0.0	7.4	4.72	M	4.0	21.2	10.3	91	27	0.77	1406	1479
28-Sep-89	27.0	12.0	0.0	4.1	3.99	M	2.1	22.7	13.5	74	33	1.00	1415	1489
29-Sep-89	22.4	11.1	0.0	6.6	1.21	M	0.5	22.4	15.5	64	26	0.80	1422	1495
30-Sep-89	27.6	10.7	0.0	6.9	4.51	M	0.4	22.8	14.0	66	24	0.98	1431	1505
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	21.7	9.1	57.4	M	4.10	M	1.9	23.0	14.1	94	50	1.33	168	204

BECKER

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	29.0	5.6	2.5	6.9	3.97	M	0.4	23.9	14.8	96	33	1.25	1438	1514
02-Oct-89	5.6	-3.4	0.0	2.5	1.85	M	0.4	14.8	7.5	93	62	0.58	1438	1514
03-Oct-89	9.6	-1.8	0.0	1.5	3.04	M	1.5	16.3	8.0	85	36	0.43	1438	1514
04-Oct-89	12.1	-5.1	0.0	2.3	3.10	M	1.4	14.4	5.1	100	35	0.54	1438	1515
05-Oct-89	12.1	7.8	0.0	2.8	0.03	M	2.3	14.6	10.7	88	62	0.92	1438	1516
06-Oct-89	9.8	-0.7	0.0	2.8	4.41	M	1.5	16.0	8.5	86	44	0.49	1438	1516
07-Oct-89	11.6	-1.6	0.0	2.8	4.16	M	1.3	15.2	6.2	93	32	0.49	1438	1517
08-Oct-89	13.7	-5.5	0.0	2.8	4.13	M	0.5	16.0	4.9	98	26	0.46	1438	1519
09-Oct-89	15.1	-1.3	0.0	1.5	2.32	M	1.9	13.5	6.2	85	48	0.70	1438	1521
10-Oct-89	16.7	2.1	0.0	2.8	3.20	M	1.7	15.8	6.8	100	42	0.81	1438	1525
11-Oct-89	24.1	7.4	0.0	4.1	3.56	M	2.4	18.9	9.1	76	32	0.84	1444	1532
12-Oct-89	23.1	6.3	0.0	4.1	3.84	M	2.1	18.0	9.1	72	21	0.67	1449	1538
13-Oct-89	24.0	7.7	0.0	3.3	0.35	100	0.6	19.2	13.0	75	20	0.71	1455	1545
14-Oct-89	23.7	3.2	0.0	3.3	3.44	23	1.1	18.8	10.0	98	24	0.78	1458	1552
15-Oct-89	15.4	6.9	0.0	3.0	1.75	1	2.8	15.0	10.9	85	49	0.83	1459	1555
16-Oct-89	7.7	1.4	0.0	2.3	2.78	6	3.9	14.4	9.3	78	55	0.57	1459	1555
17-Oct-89	8.4	-2.9	0.0	2.3	3.01	6	2.0	12.9	6.4	90	42	0.44	1459	1555
18-Oct-89	7.6	-3.2	0.0	1.5	3.07	13	1.8	12.0	5.8	85	38	0.41	1459	1555
19-Oct-89	9.0	-8.5	0.0	2.3	3.81	326	0.7	12.4	3.4	98	33	0.38	1459	1555
20-Oct-89	15.4	-5.8	0.0	2.8	3.22	309	1.0	12.8	3.6	93	18	0.38	1459	1558
21-Oct-89	17.3	-3.7	0.0	2.8	3.52	158	0.7	13.7	4.1	87	30	0.51	1459	1561
22-Oct-89	22.2	3.0	0.0	2.8	2.97	172	3.1	14.4	6.1	72	27	0.68	1462	1567
23-Oct-89	25.0	2.3	0.0	2.5	3.28	316	0.6	16.6	7.7	97	21	0.76	1465	1575
24-Oct-89	25.1	1.4	0.0	3.6	3.18	163	1.4	16.6	7.8	97	34	0.97	1469	1582
25-Oct-89	27.2	12.2	0.0	3.6	3.11	173	3.5	18.4	10.9	97	47	1.67	1478	1592
26-Oct-89	26.4	17.0	0.0	6.6	2.93	170	6.1	19.2	14.0	88	43	1.62	1490	1604
27-Oct-89	18.9	4.5	0.0	M	3.22	200	4.2	18.3	12.7	88	41	0.99	1492	1608
28-Oct-89	17.2	-0.2	7.1	M	2.90	116	1.3	16.0	9.2	99	65	1.09	1492	1612
29-Oct-89	15.1	4.2	0.0	M	0.54	276	3.1	13.8	9.0	97	83	1.27	1492	1615
30-Oct-89 *	4.9	-1.0	0.0	M	1.49	353	2.1	9.0	5.3	96	49	0.56	1492	1615
31-Oct-89 *	6.9	-2.4	0.0	M	1.44	316	0.7	7.9	3.8	98	54	0.53	1492	1615
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	16.1	1.5	9.7	M	2.83	M	1.9	15.4	8.1	90	40	0.75	61	110

CEDAR CREEK

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Apr-89	6.0	-8.5	1.8	M	0.44	174	2.1	0.1	-0.0	99	84	0.60	0	0
02-Apr-89	16.2	-4.9	0.0	M	4.70	142	1.3	3.1	0.0	100	30	0.61	1	0
03-Apr-89	9.3	0.5	3.6	M	0.22	172	2.0	1.8	0.6	99	50	0.79	2	0
04-Apr-89	9.1	1.0	0.3	M	1.38	308	2.6	2.6	0.3	99	61	0.69	2	0
05-Apr-89	12.3	-2.5	0.0	M	5.17	272	2.1	5.4	0.1	95	29	0.54	3	0
06-Apr-89	9.6	-3.9	0.0	M	6.00	309	2.2	4.9	0.2	100	24	0.42	3	0
07-Apr-89	8.9	-8.2	0.0	M	4.37	218	1.7	4.6	0.4	97	37	0.42	3	0
08-Apr-89	-0.1	-9.5	0.5	M	4.65	287	3.6	3.3	1.2	98	48	0.29	3	0
09-Apr-89	2.4	-9.5	0.0	M	4.21	283	3.3	1.4	0.5	71	41	0.26	3	0
10-Apr-89	6.1	-8.5	0.0	M	5.95	247	2.3	4.1	0.3	80	23	0.28	3	0
11-Apr-89	7.3	-4.5	0.5	M	4.96	265	2.4	6.0	1.0	99	34	0.41	3	0
12-Apr-89	7.9	-8.5	0.0	M	6.12	297	1.6	6.6	1.1	96	24	0.31	3	0
13-Apr-89	15.8	-6.9	0.0	M	3.76	193	2.7	7.1	1.7	83	36	0.55	3	0
14-Apr-89	14.2	0.3	0.0	M	6.16	272	3.3	9.7	4.2	90	23	0.54	6	0
15-Apr-89	16.0	-7.1	0.0	M	5.97	177	2.1	10.4	3.2	98	27	0.48	6	0
16-Apr-89	21.5	5.7	0.0	M	4.91	281	2.5	13.0	7.1	98	16	0.63	15	4
17-Apr-89	6.6	-3.1	0.0	M	6.53	318	2.4	11.2	6.7	98	21	0.37	15	4
18-Apr-89	12.6	-2.4	0.5	M	4.66	244	2.6	10.5	6.2	99	32	0.54	15	4
19-Apr-89	20.9	-6.1	0.0	M	5.34	227	2.1	11.6	4.5	91	19	0.47	18	4
20-Apr-89	20.2	1.4	0.0	M	4.62	78	2.6	12.9	7.0	67	27	0.54	25	4
21-Apr-89	20.5	0.7	0.0	M	6.04	86	2.3	14.4	7.9	95	40	0.85	31	5
22-Apr-89	19.8	7.9	0.5	M	3.92	110	2.9	13.8	9.7	67	43	0.84	40	9
23-Apr-89	23.0	8.3	0.0	M	4.34	107	2.6	15.3	10.7	51	40	0.77	52	15
24-Apr-89	22.7	7.7	0.0	M	4.59	108	2.0	16.1	11.1	93	43	0.93	62	20
25-Apr-89	18.7	6.7	0.0	M	3.32	34	2.3	14.9	12.0	97	53	1.09	71	22
26-Apr-89	17.5	4.8	4.1	M	1.84	44	2.7	13.5	11.0	97	81	1.13	77	24
27-Apr-89	16.3	5.5	1.5	M	2.77	47	4.6	13.0	10.3	96	60	1.05	84	25
28-Apr-89	6.1	2.1	16.3	M	0.19	50	4.1	10.6	7.6	98	94	0.83	84	25
29-Apr-89	3.2	0.9	15.2	M	1.10	24	3.3	7.6	6.2	99	97	0.69	84	25
30-Apr-89	10.5	-2.7	1.0	M	3.85	280	1.7	9.7	4.8	100	49	0.66	84	25
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	12.7	-1.4	45.7	M	4.07	188	2.5	8.6	4.6	92	43	0.62	84	25

01-May-89	10.4	-4.7	0.0	M	3.14	292	1.1	9.3	4.8	100	47	0.59	84	25
02-May-89	16.8	-3.2	0.0	M	5.74	260	1.6	12.1	5.1	99	27	0.60	86	25
03-May-89	20.8	4.0	0.0	M	6.82	215	2.3	15.1	7.4	83	23	0.66	94	27
04-May-89	12.3	6.4	9.4	M	1.04	164	1.7	11.8	9.5	97	50	1.06	99	27
05-May-89	6.8	-4.7	0.0	M	4.48	285	4.6	10.5	7.5	94	47	0.47	99	27
06-May-89	10.3	-4.9	0.0	M	3.96	300	2.3	10.2	5.6	96	58	0.53	99	27
07-May-89	19.2	-4.1	0.0	M	6.93	202	1.3	14.6	5.6	100	27	0.64	102	27
08-May-89	11.4	1.1	18.5	M	0.09	71	2.7	11.5	7.8	99	52	0.89	104	27
09-May-89	21.3	-0.7	4.1	M	7.14	270	1.2	15.2	5.7	100	33	0.82	110	27
10-May-89	23.7	2.1	0.0	M	7.16	126	1.5	17.6	9.1	98	30	0.88	118	30
11-May-89	24.0	1.1	0.0	M	7.44	111	1.4	18.8	10.5	96	17	0.69	126	33
12-May-89	24.7	2.6	0.0	M	7.64	55	2.6	19.3	11.4	73	13	0.45	136	36
13-May-89	23.9	5.3	0.0	M	6.48	57	2.5	19.2	12.3	78	19	0.70	146	41
14-May-89	25.0	7.7	0.0	M	5.17	57	1.6	19.2	13.9	95	40	1.23	158	47
15-May-89	28.0	8.2	0.0	M	5.94	40	1.5	21.0	14.7	97	35	1.44	171	55
16-May-89	29.2	8.5	1.3	M	6.87	123	1.6	22.0	15.1	98	27	1.25	186	64
17-May-89	28.6	15.1	0.0	M	5.67	142	2.5	22.0	16.9	75	30	1.28	203	76
18-May-89	19.7	15.3	14.7	M	0.51	97	1.3	19.9	17.0	95	69	1.77	216	84
19-May-89	23.4	11.8	2.3	M	2.73	146	1.6	19.8	15.7	95	78	1.89	229	91
20-May-89	23.4	7.1	2.5	M	7.70	250	2.4	21.1	14.7	95	23	0.95	240	97
21-May-89	27.2	4.0	0.0	M	7.43	174	1.2	22.2	14.1	97	16	0.86	251	102
22-May-89	27.7	10.6	0.0	M	7.11	187	2.0	24.0	17.0	95	26	1.35	266	111
23-May-89	27.7	13.1	10.7	M	5.90	194	2.3	23.3	17.4	96	58	1.89	282	122
24-May-89	21.9	14.0	9.1	M	1.13	73	2.3	20.6	17.6	95	79	1.86	296	130
25-May-89	23.4	8.1	2.3	M	7.17	221	2.9	21.6	14.9	96	25	1.01	307	135
26-May-89	13.9	4.0	0.0	M	3.58	262	3.2	17.7	14.3	91	51	0.81	311	135
27-May-89	21.8	-0.3	0.0	M	7.95	204	1.5	20.8	11.6	99	22	0.76	318	136
28-May-89	26.6	8.3	0.0	M	7.22	165	2.3	22.3	14.4	79	12	1.07	331	144
29-May-89	16.0	6.2	14.2	M	0.29	53	3.0	19.3	14.2	100	78	1.37	337	145
30-May-89	14.1	6.7	0.5	M	1.22	40	3.9	14.7	12.8	100	87	1.21	343	145
31-May-89	21.3	9.4	0.0	M	4.46	1	1.6	18.1	12.9	96	37	1.05	354	150
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	20.8	5.1	89.7	M	5.04	156	2.1	17.9	12.0	94	40	1.03	270	125

## CEDAR CREEK

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Jun-89	23.0	8.3	0.0	M	6.77	230	1.7	21.3	14.5	100	44	1.34	365	156
02-Jun-89	25.0	6.4	0.0	M	4.83	237	1.7	20.8	15.0	100	51	1.37	377	162
03-Jun-89	21.8	9.1	0.0	M	7.41	22	2.2	23.2	16.1	96	40	1.23	388	167
04-Jun-89	21.3	5.4	0.0	M	8.00	287	1.6	23.3	15.9	98	31	0.91	397	171
05-Jun-89	27.2	9.2	0.0	M	4.68	215	1.9	21.6	16.7	100	36	1.24	410	179
06-Jun-89	27.5	9.4	0.0	M	7.55	50	1.4	24.4	16.9	100	39	1.51	424	187
07-Jun-89	28.8	8.7	0.0	M	5.97	203	2.8	24.8	18.9	95	48	1.72	439	196
08-Jun-89	11.5	6.6	0.0	M	1.96	15	2.5	21.4	17.4	100	79	1.04	443	196
09-Jun-89	20.3	6.1	0.0	M	5.09	21	2.0	20.7	15.9	100	51	1.11	452	199
10-Jun-89	24.5	2.9	0.0	M	7.58	156	1.2	23.2	15.3	100	38	1.13	461	203
11-Jun-89	26.9	5.7	0.0	M	5.67	117	1.7	23.3	16.8	100	47	1.45	473	209
12-Jun-89	23.3	13.4	28.4	M	2.33	215	2.3	21.6	18.8	100	72	1.84	487	217
13-Jun-89	17.1	7.3	1.3	M	3.33	1	2.0	19.3	16.1	100	62	1.16	495	220
14-Jun-89	17.1	3.5	6.1	M	4.84	30	3.3	18.4	14.1	100	44	1.05	501	220
15-Jun-89	22.0	1.5	0.0	M	7.27	36	1.3	21.0	12.5	100	42	1.07	508	222
16-Jun-89	23.9	5.9	0.0	M	8.20	88	1.2	23.8	15.2	100	34	1.13	518	227
17-Jun-89	29.3	4.7	0.0	M	7.35	126	1.3	24.6	15.9	100	41	1.41	531	234
18-Jun-89	27.9	12.4	3.0	M	5.88	285	1.3	25.4	19.2	100	41	1.85	547	244
19-Jun-89	31.3	11.4	0.0	M	7.95	99	1.3	26.9	18.4	100	32	1.57	564	255
20-Jun-89	32.3	18.6	0.0	M	6.97	132	2.4	27.2	20.6	69	35	1.65	585	270
21-Jun-89	30.2	21.6	0.0	M	4.68	130	2.3	25.9	21.8	100	50	2.15	606	286
22-Jun-89	23.2	17.8	23.1	M	1.22	214	1.2	24.0	20.9	100	89	2.28	622	297
23-Jun-89	27.3	13.8	0.5	M	6.59	247	1.2	25.8	19.7	100	42	1.93	638	307
24-Jun-89	29.8	11.5	0.0	M	4.99	144	0.8	25.2	19.2	100	40	1.90	654	318
25-Jun-89	26.6	15.4	6.6	M	3.30	174	1.5	23.7	20.0	100	72	2.22	671	329
26-Jun-89	26.0	11.8	13.5	M	5.57	227	1.7	25.0	19.6	100	60	2.06	685	338
27-Jun-89	28.0	9.0	0.0	M	8.07	237	1.5	26.1	18.0	100	34	1.52	699	346
28-Jun-89	26.2	12.3	0.0	M	7.16	67	2.3	25.9	19.4	100	60	1.80	714	356
29-Jun-89	29.2	14.9	0.0	M	7.17	149	2.4	26.9	20.3	98	59	2.10	732	368
30-Jun-89	30.3	19.7	0.0	M	5.93	193	2.3	27.2	22.2	100	67	2.42	752	383
	MEAN 25.3	MEAN 10.1	TOTL 82.6	TOTL M	MEAN 5.81	MEAN 145	MEAN 1.8	MEAN 23.7	MEAN 17.7	MEAN 99	MEAN 49	MEAN 1.57	TOTL 398	TOTL 233

01-Jul-89	31.0	16.3	0.0	M	5.81	147	1.1	27.1	21.9	100	64	2.56	772	396
02-Jul-89	31.8	16.8	0.0	M	6.95	182	1.4	28.3	22.3	100	57	2.53	791	411
03-Jul-89	32.1	15.3	0.0	M	7.77	275	1.7	29.4	23.7	99	36	2.16	811	424
04-Jul-89	33.8	12.6	0.0	M	7.63	128	0.9	28.9	22.5	100	35	1.94	829	438
05-Jul-89	35.1	17.1	0.0	M	7.64	164	1.7	29.6	23.1	99	41	2.23	851	454
06-Jul-89	32.2	20.3	0.0	M	7.09	357	1.8	29.9	24.1	87	53	2.35	873	470
07-Jul-89	28.9	13.1	0.0	M	7.39	32	1.9	29.2	23.4	100	36	1.54	889	481
08-Jul-89	31.3	22.8	10.7	M	3.83	117	1.4	28.3	23.8	97	65	2.83	912	498
09-Jul-89	34.9	21.0	0.0	M	5.18	98	1.6	29.4	23.1	99	61	3.04	936	516
10-Jul-89	32.2	18.3	0.0	M	7.18	M	1.5	30.6	23.3	M	M	M	956	531
11-Jul-89	26.2	16.9	0.0	M	2.90	47	2.7	26.6	24.0	97	72	2.29	973	543
12-Jul-89	28.0	15.0	0.0	M	6.15	29	1.7	28.1	22.2	100	62	2.09	991	554
13-Jul-89	26.1	10.8	0.0	M	7.07	39	2.1	28.2	22.4	100	42	1.62	1005	563
14-Jul-89	29.0	8.5	0.0	M	5.62	35	0.9	26.4	21.2	100	38	1.54	1019	571
15-Jul-89	29.9	10.3	0.0	M	7.30	86	1.0	27.4	20.9	100	35	1.61	1035	581
16-Jul-89	31.0	10.8	0.0	M	6.24	178	1.1	27.4	21.2	100	35	1.76	1051	592
17-Jul-89	30.3	13.9	1.5	M	5.99	165	1.1	27.1	21.9	100	41	1.86	1069	604
18-Jul-89	22.7	16.7	26.2	M	1.50	48	3.2	25.2	21.3	100	83	2.16	1084	614
19-Jul-89	27.9	13.6	0.0	M	6.66	25	2.0	25.3	19.2	100	44	1.83	1100	625
20-Jul-89	29.8	12.7	0.0	M	5.10	16	1.2	25.2	19.8	100	57	2.11	1117	636
21-Jul-89	30.0	14.6	0.0	M	6.94	95	0.9	26.9	20.5	100	41	2.00	1135	648
22-Jul-89	30.5	12.0	0.0	M	6.88	85	1.0	27.2	20.7	100	43	1.90	1152	660
23-Jul-89	30.3	15.5	0.0	M	5.49	133	1.0	26.9	21.7	100	56	2.29	1170	673
24-Jul-89	30.3	16.6	0.0	M	5.15	155	1.2	26.8	22.3	100	61	2.41	1189	686
25-Jul-89	32.6	17.4	0.0	M	6.06	186	1.3	27.9	22.6	99	54	2.56	1210	701
26-Jul-89	32.6	20.2	0.0	M	6.38	199	1.8	28.8	23.8	99	53	2.65	1232	717
27-Jul-89	29.5	13.8	0.0	M	7.06	12	2.2	29.2	24.3	98	40	1.97	1249	729
28-Jul-89	26.4	12.6	0.0	M	6.06	74	1.7	27.7	23.0	100	57	1.83	1264	739
29-Jul-89	20.4	17.2	25.4	M	1.00	79	1.7	25.6	21.8	99	85	2.07	1278	747
30-Jul-89	25.4	17.2	0.0	M	3.29	85	1.0	24.1	20.8	99	83	2.30	1295	759
31-Jul-89	28.8	17.7	0.0	M	5.07	54	1.1	26.1	21.2	99	69	2.54	1314	772
	MEAN 29.7	MEAN 15.4	TOTL 63.8	TOTL M	MEAN 5.82	MEAN M	MEAN 1.5	MEAN 27.6	MEAN 22.2	MEAN M	MEAN M	MEAN M	TOTL 562	TOTL 389



## CEDAR CREEK

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Aug-89	31.2	16.8	0.0	M	6.49	194	1.5	27.8	21.6	99	62	2.59	1334	786
02-Aug-89	31.5	16.9	0.0	M	6.15	180	2.1	27.9	22.6	99	59	2.61	1353	800
03-Aug-89	31.3	22.3	0.0	M	3.14	204	1.9	27.3	24.5	98	76	3.13	1376	817
04-Aug-89	36.1	16.1	0.0	M	5.66	207	1.1	28.7	23.8	98	35	2.69	1397	833
05-Aug-89	27.1	14.1	0.0	M	6.10	265	2.5	27.4	22.7	99	44	1.68	1413	844
06-Aug-89	20.9	9.2	0.0	M	5.32	2	2.3	24.9	21.8	100	43	1.20	1424	849
07-Aug-89	24.7	5.6	0.0	M	6.84	296	1.3	25.0	19.0	100	36	1.20	1435	854
08-Aug-89	28.5	10.9	0.0	M	5.92	263	1.1	25.2	19.8	100	34	1.42	1450	864
09-Aug-89	30.8	8.2	0.0	M	6.13	168	1.0	25.6	19.7	100	26	1.44	1465	873
10-Aug-89	31.6	10.4	0.0	M	6.24	165	1.2	26.2	20.3	100	37	1.67	1482	884
11-Aug-89	30.5	11.3	0.0	M	6.13	178	1.2	26.7	20.9	100	37	1.74	1498	895
12-Aug-89	24.4	16.0	2.3	M	1.82	147	1.1	24.4	22.1	97	77	2.11	1514	905
13-Aug-89	31.0	17.4	0.0	M	5.63	201	1.6	26.2	20.7	99	47	2.18	1534	919
14-Aug-89	22.2	15.0	8.1	M	2.51	M	1.7	23.3	21.1	M	M	M	1548	928
15-Aug-89	23.1	10.2	0.0	M	2.96	36	1.0	22.2	19.6	100	60	1.70	1560	935
16-Aug-89	26.9	7.6	0.0	M	5.60	134	0.9	23.4	17.0	100	43	1.48	1573	942
17-Aug-89	27.6	8.2	0.0	M	6.28	130	1.1	24.4	17.7	100	42	1.53	1586	950
18-Aug-89	28.9	11.5	0.0	M	5.54	146	1.6	24.5	18.8	99	47	1.73	1602	960
19-Aug-89	21.6	16.8	8.4	M	1.20	156	1.6	22.4	20.0	99	74	1.96	1617	969
20-Aug-89	24.6	10.5	10.7	M	5.30	255	1.6	23.1	18.3	99	53	1.81	1630	977
21-Aug-89	28.3	9.2	0.0	M	4.54	83	1.8	23.2	17.7	100	65	1.92	1644	986
22-Aug-89	29.5	15.2	33.8	M	5.33	31	1.4	24.6	18.9	99	53	2.21	1662	998
23-Aug-89	26.2	14.2	0.0	M	5.55	72	1.6	24.2	19.3	99	68	1.97	1678	1008
24-Aug-89	25.6	12.3	0.0	M	6.07	87	1.4	24.1	18.6	99	57	1.77	1693	1017
25-Aug-89	25.5	11.5	0.0	M	4.22	104	1.4	23.2	18.6	100	65	1.94	1707	1026
26-Aug-89	25.6	14.0	13.2	M	1.89	70	0.9	22.7	20.3	99	82	2.21	1722	1035
27-Aug-89	26.2	14.6	0.0	M	4.58	40	1.3	22.7	18.7	99	47	1.83	1738	1046
28-Aug-89	25.5	15.8	0.0	M	3.21	131	1.2	22.8	19.4	98	79	2.20	1754	1056
29-Aug-89	24.3	9.5	0.0	M	5.99	242	2.2	23.3	19.1	100	42	1.53	1767	1063
30-Aug-89	19.8	7.3	10.2	M	2.45	84	1.4	19.9	17.3	100	77	1.51	1776	1067
31-Aug-89	27.7	15.6	34.3	M	2.21	58	2.6	21.6	17.9	98	69	2.06	1793	1079
MEAN	27.1	12.7	TOTL 120.9	TOTL M	MEAN 4.74	MEAN M	MEAN 1.5	MEAN 24.5	MEAN 19.9	MEAN M	MEAN M	MEAN M	TOTL 479	TOTL 307

01-Sep-89	23.1	10.2	29.0	M	4.58	14	1.8	21.7	17.5	99	52	1.64	1805	1085
02-Sep-89	25.9	9.4	0.0	M	4.70	170	0.9	21.5	16.2	99	52	1.58	1818	1093
03-Sep-89	23.8	13.2	0.0	M	2.92	126	1.9	20.3	16.8	99	62	1.68	1832	1101
04-Sep-89	25.4	12.3	14.5	M	3.60	203	1.7	21.5	17.7	99	49	1.77	1847	1110
05-Sep-89	27.6	9.1	0.0	M	5.30	183	1.2	21.8	15.9	100	46	1.59	1861	1119
06-Sep-89	25.5	13.1	0.0	M	1.68	139	1.1	21.0	17.2	98	85	2.29	1876	1128
07-Sep-89	24.2	11.8	0.3	M	1.85	220	1.1	21.2	18.6	99	59	2.07	1889	1136
08-Sep-89	24.0	10.1	0.0	M	2.97	255	1.1	19.8	16.2	99	52	1.53	1902	1143
09-Sep-89	18.2	7.1	0.0	M	1.98	262	1.4	18.8	16.1	100	70	1.36	1910	1146
10-Sep-89	18.3	2.8	0.0	M	3.89	357	1.1	17.6	13.3	100	43	0.99	1916	1146
11-Sep-89	14.6	4.0	0.8	M	3.30	240	2.0	17.1	14.0	99	47	1.01	1921	1146
12-Sep-89	16.3	3.9	0.0	M	3.01	249	1.3	16.3	12.6	100	59	1.01	1927	1146
13-Sep-89	19.5	0.3	0.0	M	4.72	190	0.9	16.7	11.6	100	41	0.90	1932	1146
14-Sep-89	20.8	1.3	0.0	M	4.96	194	1.2	17.0	11.5	100	44	0.98	1939	1147
15-Sep-89	22.5	3.5	0.0	M	5.00	175	1.3	18.4	12.1	100	41	1.09	1947	1150
16-Sep-89	25.5	7.7	0.0	M	4.69	146	1.4	18.4	13.1	99	55	1.48	1959	1157
17-Sep-89	28.4	12.0	0.0	M	4.58	148	1.7	19.7	14.6	98	55	1.84	1975	1167
18-Sep-89	29.2	16.7	0.0	M	4.61	156	2.9	20.7	16.4	96	44	1.90	1994	1180
19-Sep-89	21.7	18.3	6.9	M	0.75	175	1.6	19.0	18.0	98	78	2.05	2009	1190
20-Sep-89	24.3	17.8	0.0	M	2.03	129	0.9	20.5	17.4	97	78	2.29	2026	1201
21-Sep-89	25.8	14.3	2.8	M	3.90	147	1.4	21.0	16.6	98	58	1.90	2041	1211
22-Sep-89	19.4	2.1	0.0	M	2.97	318	3.0	19.2	13.8	94	40	1.00	2048	1212
23-Sep-89	12.4	-1.8	0.0	M	4.62	259	1.4	15.1	11.0	100	43	0.59	2049	1212
24-Sep-89	18.3	-1.6	0.0	M	4.50	178	2.2	14.7	9.6	100	25	0.60	2053	1212
25-Sep-89	17.5	0.3	0.0	M	4.13	271	1.9	15.1	10.9	98	42	0.79	2057	1212
26-Sep-89	16.2	-3.7	0.0	M	4.47	97	1.0	13.9	9.0	100	40	0.67	2059	1212
27-Sep-89	22.5	1.8	0.0	M	4.09	167	2.4	14.5	9.6	99	28	0.77	2066	1214
28-Sep-89	25.8	8.4	0.0	M	3.79	213	2.1	16.3	11.8	96	38	1.01	2079	1221
29-Sep-89	22.6	2.4	0.0	M	4.18	221	0.9	15.7	11.3	100	29	0.93	2087	1224
30-Sep-89	27.1	10.0	0.0	M	3.90	163	2.4	16.5	12.0	74	28	0.99	2101	1232
MEAN	22.2	7.2	TOTL 54.1	TOTL M	MEAN 3.72	MEAN 192	MEAN 1.6	MEAN 18.4	MEAN 14.1	MEAN 98	MEAN 49	MEAN 1.34	TOTL 308	TOTL 153

CEDAR CREEK

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Oct-89	28.9	6.9	0.0	M	3.42	174	2.2	17.5	13.5	98	33	1.33	2115	1240
02-Oct-89	6.9	-3.3	13.0	M	0.87	272	0.4	15.4	9.9	96	66	0.64	2115	1240
03-Oct-89	9.7	-5.8	0.0	M	4.13	242	0.4	10.6	6.9	100	40	0.46	2115	1240
04-Oct-89	12.7	-7.4	0.0	M	2.89	171	0.4	9.8	5.4	100	35	0.55	2115	1240
05-Oct-89	17.6	7.3	1.0	M	1.10	207	0.4	11.6	9.0	96	57	0.99	2123	1242
06-Oct-89	10.7	-2.0	0.0	M	2.18	288	2.3	10.8	7.8	85	42	0.47	2123	1242
07-Oct-89	11.0	-4.7	0.0	M	3.71	265	1.5	9.5	5.7	92	36	0.48	2123	1242
08-Oct-89	12.9	-8.1	0.0	M	3.75	59	1.1	8.8	4.3	98	32	0.46	2123	1242
09-Oct-89	14.2	-4.4	0.0	M	1.31	178	1.2	8.6	4.7	100	54	0.71	2123	1242
10-Oct-89	16.8	1.5	0.0	M	3.21	223	1.5	10.3	4.8	100	45	0.86	2128	1242
11-Oct-89	23.8	7.1	0.0	M	3.20	224	2.3	12.0	6.7	75	38	0.91	2139	1248
12-Oct-89	23.2	0.9	0.0	M	3.34	214	1.8	11.4	6.7	89	27	0.70	2146	1250
13-Oct-89	24.3	3.8	0.0	M	2.65	79	1.0	12.7	8.4	95	27	0.87	2156	1254
14-Oct-89	22.8	0.8	0.0	M	3.37	48	1.3	12.6	8.1	100	29	0.81	2163	1256
15-Oct-89	14.7	6.7	0.0	M	1.91	30	2.4	11.6	8.6	87	62	0.90	2170	1256
16-Oct-89	8.4	1.0	0.0	M	1.30	29	3.3	10.3	8.0	77	68	0.57	2170	1256
17-Oct-89	8.3	-5.4	0.0	M	3.00	24	1.8	8.6	6.0	87	45	0.44	2170	1256
18-Oct-89	7.1	-5.8	0.0	M	2.62	25	1.6	7.5	4.4	94	43	0.42	2170	1256
19-Oct-89	8.7	-10.3	0.0	M	3.24	13	1.0	6.4	3.2	98	41	0.38	2170	1256
20-Oct-89	15.1	-7.8	0.0	M	2.64	262	1.3	6.3	2.5	96	24	0.41	2170	1256
21-Oct-89	18.5	-6.2	0.0	M	3.12	98	0.9	6.6	2.6	97	23	0.48	2172	1256
22-Oct-89	22.8	2.6	0.0	M	2.38	156	1.9	8.6	3.7	69	31	0.69	2180	1259
23-Oct-89	25.7	0.2	0.0	M	2.77	232	0.8	9.5	5.4	100	28	0.81	2188	1262
24-Oct-89	26.8	-0.8	0.0	M	2.65	151	1.3	10.2	5.8	100	37	1.02	2197	1265
25-Oct-89	28.0	13.4	0.0	M	2.49	160	2.1	12.6	8.6	97	50	1.70	2213	1276
26-Oct-89	26.8	15.7	0.0	M	2.31	151	2.8	13.8	10.8	89	46	1.61	2230	1287
27-Oct-89	19.6	1.5	0.0	M	2.56	188	2.6	13.2	10.5	93	43	0.99	2236	1288
28-Oct-89	17.6	-1.7	0.0	M	1.43	93	1.3	11.6	8.3	100	70	1.20	2240	1288
29-Oct-89	17.7	5.7	11.2	M	0.29	234	2.0	12.8	10.9	100	85	1.41	2247	1289
31-Oct-89	5.1	-3.2	0.0	M	0.82	307	1.1	7.5	5.3	98	63	0.53	2247	1289
MEAN	16.9	-0.1	TOTL 25.1	TOTL M	2.49	MEAN 160	MEAN 1.5	MEAN 10.6	MEAN 6.9	MEAN 94	MEAN 44	MEAN 0.79	TOTL 146	TOTL 57

## CLOQUET

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Apr-89	1.5	-13.1	0.0	M	1.42	M	M	0.9	0.8	83	66	0.38	0	0
02-Apr-89	13.9	-1.0	0.0	M	4.74	M	M	0.9	0.8	81	26	0.48	2	0
03-Apr-89	4.5	0.3	8.1	M	1.12	M	M	0.9	0.8	82	66	0.53	2	0
04-Apr-89	5.2	-0.2	0.0	M	1.69	M	M	0.8	0.8	82	69	0.55	2	0
05-Apr-89	9.8	-4.0	0.0	M	5.54	M	M	0.8	0.7	82	28	0.42	2	0
06-Apr-89	7.0	-3.4	0.0	M	6.21	M	M	0.8	0.7	82	27	0.34	2	0
07-Apr-89	8.4	-9.9	0.0	M	5.01	M	M	0.8	0.7	83	34	0.33	2	0
08-Apr-89	-3.8	-11.9	0.0	M	4.34	M	M	0.7	0.7	82	44	0.20	2	0
09-Apr-89	-1.8	-10.3	0.0	M	3.65	M	M	0.8	0.7	83	51	0.26	2	0
10-Apr-89	2.9	-12.9	13.7	M	5.36	M	M	0.7	0.7	76	27	0.22	2	0
11-Apr-89	2.0	-5.5	0.0	M	3.11	M	M	0.7	0.7	82	48	0.35	2	0
12-Apr-89	6.4	-7.7	0.0	M	6.25	M	M	0.7	0.7	79	28	0.30	2	0
13-Apr-89	11.4	-8.6	0.0	M	4.30	M	M	0.7	0.7	82	40	0.44	2	0
14-Apr-89	9.8	-1.2	0.0	M	5.70	M	M	0.7	0.6	78	29	0.44	2	0
15-Apr-89	13.0	-5.8	0.0	M	6.24	M	M	0.7	0.6	83	30	0.43	2	0
16-Apr-89	14.8	1.9	0.0	M	4.44	M	M	0.7	0.6	72	27	0.51	6	0
17-Apr-89	4.2	-6.8	0.0	M	6.72	M	M	0.7	0.6	76	21	0.25	6	0
18-Apr-89	10.5	-6.6	0.0	M	6.17	M	M	4.2	0.6	75	23	0.34	6	0
19-Apr-89	17.0	-6.8	0.0	M	6.59	M	M	10.3	1.2	82	16	0.34	7	0
20-Apr-89	13.4	-3.1	0.0	M	3.19	M	M	8.8	3.4	79	22	0.36	7	0
21-Apr-89	16.5	-1.9	0.0	M	6.50	M	M	13.2	3.5	73	40	0.55	10	0
22-Apr-89	11.5	-0.5	0.0	M	6.26	M	M	13.4	6.0	77	42	0.50	11	0
23-Apr-89	7.5	-0.5	0.0	M	2.00	M	M	9.4	6.8	76	45	0.45	11	0
24-Apr-89	23.0	-1.0	0.0	M	5.82	M	M	14.9	5.4	80	29	0.59	18	1
25-Apr-89	15.2	0.5	0.0	M	2.47	M	M	12.7	9.2	79	55	0.68	21	1
26-Apr-89	10.3	-1.1	0.0	M	1.33	M	M	10.3	7.3	81	50	0.66	21	1
27-Apr-89	12.0	2.2	0.5	M	3.60	M	M	12.5	6.7	82	51	0.61	24	1
28-Apr-89	10.1	0.3	0.3	M	3.20	M	M	11.2	7.0	82	42	0.49	25	1
29-Apr-89	1.7	-0.2	1.8	M	1.36	M	M	8.3	4.3	82	80	0.51	25	1
30-Apr-89	6.8	-1.6	10.7	M	3.72	M	M	9.1	3.4	83	71	0.56	25	1
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	8.8	-4.0	35.1	M	4.27	M	M	5.0	2.6	80	41	0.44	25	1
01-May-89	10.8	-3.7	1.5	M	3.45	M	M	10.0	3.9	81	43	0.56	25	1
02-May-89	16.4	-0.4	0.0	M	5.21	M	M	13.6	5.9	81	20	0.49	28	1
03-May-89	20.6	-1.9	0.0	M	6.83	M	M	16.8	6.6	82	19	0.51	33	1
04-May-89	16.9	4.8	0.0	M	2.76	M	M	13.6	9.7	81	41	0.77	40	2
05-May-89	6.7	-7.5	8.4	M	2.38	M	M	11.9	5.6	81	57	0.36	40	2
06-May-89	7.0	-6.7	0.0	M	3.11	M	M	8.9	4.5	82	58	0.43	40	2
07-May-89	17.8	-4.4	0.0	M	6.22	M	M	15.7	5.5	82	18	0.47	42	2
08-May-89	11.3	-1.2	2.3	M	2.37	M	M	14.4	11.1	82	46	0.63	43	2
09-May-89	21.8	-2.3	7.9	M	6.72	M	M	20.2	8.5	82	20	0.60	48	2
10-May-89	21.5	0.4	0.0	M	7.69	M	M	22.5	11.8	72	18	0.46	54	3
11-May-89	22.9	0.2	0.0	M	7.70	M	M	23.4	12.9	76	16	0.46	62	4
12-May-89	22.2	-2.5	0.0	M	7.95	M	M	23.7	13.3	81	13	0.37	67	4
13-May-89	21.8	1.2	0.0	M	7.22	M	M	24.6	14.9	77	24	0.70	74	6
14-May-89	21.8	3.9	0.0	M	4.91	M	M	22.9	16.7	81	35	0.92	82	9
15-May-89	27.8	7.2	0.0	M	7.72	M	M	27.3	17.6	80	15	0.89	95	16
16-May-89	29.2	6.5	0.0	M	6.80	M	M	27.7	18.8	80	20	0.93	109	24
17-May-89	27.4	8.0	0.0	M	6.15	M	M	27.1	18.9	77	29	0.93	122	32
18-May-89	17.4	11.8	3.6	M	1.79	M	M	23.7	19.7	82	50	1.18	132	36
19-May-89	16.0	9.6	8.4	M	1.45	M	M	19.8	18.0	86	77	1.16	141	39
20-May-89	22.7	7.1	11.2	M	7.73	M	M	26.7	15.9	82	17	0.70	151	44
21-May-89	26.7	3.7	0.0	M	7.90	M	M	28.4	17.7	69	12	0.56	162	49
22-May-89	28.2	6.5	0.0	M	6.36	M	M	27.8	19.5	68	18	0.79	175	57
23-May-89	23.7	8.7	0.5	M	6.29	M	M	29.5	19.4	73	37	0.97	187	63
24-May-89	14.5	8.8	0.3	M	1.34	M	M	25.2	18.5	83	52	0.89	194	64
25-May-89	22.0	8.0	21.6	M	7.88	M	M	26.6	16.9	84	15	0.66	204	69
26-May-89	12.6	2.3	0.0	M	4.36	M	M	21.6	17.8	64	40	0.54	207	69
27-May-89	22.1	-0.5	0.8	M	8.26	M	M	28.4	14.6	73	17	0.49	214	70
28-May-89	23.0	8.4	0.0	M	4.17	M	M	24.8	18.4	62	30	0.73	225	76
29-May-89	11.4	3.1	0.0	M	0.69	M	M	21.9	15.2	72	56	0.64	228	76
30-May-89	14.0	4.3	11.4	M	4.28	M	M	20.8	14.6	71	34	0.53	232	76
31-May-89	22.7	7.1	0.0	M	5.79	M	M	26.9	16.0	67	24	0.67	243	81
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	19.4	2.9	77.7	M	5.27	M	M	21.8	13.8	77	31	0.68	218	80

## CLOQUET

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Jun-89	23.5	9.8	2.0	M	5.45	M	M	27.3	19.6	71	30	0.88	255	87
02-Jun-89	23.3	8.2	0.0	M	5.04	M	M	26.7	19.1	67	28	0.89	266	93
03-Jun-89	22.0	7.2	0.0	M	7.50	M	M	30.2	19.6	72	24	0.72	276	98
04-Jun-89	18.5	5.0	0.0	M	8.11	M	M	30.1	19.6	58	18	0.49	284	100
05-Jun-89	21.0	7.4	0.5	M	4.47	M	M	26.2	20.6	67	36	0.82	294	104
06-Jun-89	26.5	5.1	0.5	M	8.04	M	M	32.2	19.2	71	14	0.66	305	109
07-Jun-89	13.1	5.0	0.0	M	3.22	M	M	26.4	20.8	69	48	0.69	310	109
08-Jun-89	9.3	4.8	0.5	M	1.94	M	M	20.8	18.4	71	62	0.67	312	109
09-Jun-89	21.5	5.0	0.8	M	7.79	M	M	29.4	17.7	69	18	0.64	321	113
10-Jun-89	25.3	2.3	0.8	M	8.43	M	M	33.0	19.1	69	16	0.59	330	117
11-Jun-89	26.7	4.6	0.0	M	7.05	M	M	33.2	22.3	67	23	0.78	341	122
12-Jun-89	13.6	10.2	11.2	M	0.72	M	M	28.6	21.9	85	48	1.03	349	124
13-Jun-89	11.3	5.7	14.5	M	1.41	M	M	21.9	19.1	84	77	0.85	353	124
14-Jun-89	15.9	2.7	1.3	M	7.11	M	M	27.5	18.1	79	41	0.70	358	124
15-Jun-89	21.3	1.7	0.5	M	4.99	M	M	27.3	18.8	71	28	0.65	365	126
16-Jun-89	24.7	1.9	0.0	M	7.04	M	M	30.5	19.1	70	19	0.61	374	129
17-Jun-89	29.2	3.8	0.0	M	8.41	M	M	34.1	20.9	69	15	0.71	386	135
18-Jun-89	27.7	11.9	1.8	M	M	M	M	34.2	24.7	94	13	1.27	401	145
19-Jun-89	32.1	8.9	0.0	M	9.01	M	M	36.3	23.9	99	28	1.36	417	156
20-Jun-89	31.9	13.4	0.0	M	9.06	M	M	37.0	25.9	86	35	1.54	435	168
21-Jun-89	24.2	16.4	0.0	M	4.52	M	M	31.7	27.0	100	61	1.86	451	179
22-Jun-89	22.0	14.7	22.4	M	1.68	M	M	27.6	25.0	100	85	2.02	465	187
23-Jun-89	26.1	14.1	6.3	M	6.16	M	M	31.1	24.1	100	52	1.87	481	197
24-Jun-89	28.6	9.7	0.0	M	6.72	M	M	33.1	22.9	100	38	1.57	496	206
25-Jun-89	24.0	12.4	0.0	M	2.81	M	M	28.0	23.9	100	76	1.78	509	214
26-Jun-89	25.5	11.4	2.0	M	5.24	M	M	29.6	22.9	100	62	1.77	523	223
27-Jun-89	25.3	10.9	1.0	M	9.73	M	M	33.8	21.7	99	36	1.36	537	231
28-Jun-89	17.0	7.7	0.0	M	7.86	M	M	32.7	23.4	99	61	1.17	545	233
29-Jun-89	25.0	7.4	0.0	M	7.96	M	M	34.7	22.7	96	61	1.37	557	240
30-Jun-89	25.5	11.1	4.6	M	4.22	M	M	30.4	25.5	100	71	2.00	570	248
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	22.7	8.0	70.6	M	M	M	M	30.2	21.6	83	41	1.11	327	167

01-Jul-89	24.4	12.4	0.8	M	5.93	M	M	33.8	24.9	100	75	1.82	584	256
02-Jul-89	32.1	12.0	0.0	M	8.04	M	M	37.6	25.4	100	55	2.20	602	268
03-Jul-89	29.9	13.1	0.0	M	9.61	M	M	39.9	28.8	99	34	1.87	619	280
04-Jul-89	34.1	11.0	0.0	M	9.44	M	M	40.8	27.8	100	34	1.72	637	292
05-Jul-89	34.5	15.1	0.0	M	8.91	M	M	41.4	30.0	99	44	2.16	658	307
06-Jul-89	30.9	16.6	0.0	M	8.88	M	M	40.9	32.0	88	44	1.96	677	321
07-Jul-89	29.8	10.7	0.5	M	9.39	M	M	40.2	29.6	98	36	1.43	693	331
08-Jul-89	32.2	11.9	0.0	M	8.81	M	M	40.1	29.6	99	49	2.00	710	343
09-Jul-89	35.5	18.8	0.0	M	4.77	M	M	37.4	31.0	99	49	2.55	733	360
10-Jul-89	30.7	15.3	0.0	M	8.62	M	M	39.8	29.9	96	37	1.84	752	373
11-Jul-89	21.3	11.4	0.0	M	5.98	M	M	35.1	29.9	98	69	1.53	763	380
12-Jul-89	28.5	11.5	0.0	M	6.17	M	M	36.0	27.6	84	43	1.27	779	390
13-Jul-89	26.6	9.3	0.0	M	8.55	M	M	36.2	27.2	96	39	1.31	793	398
14-Jul-89	24.4	9.1	0.0	M	8.76	M	M	35.8	27.0	100	52	1.48	805	404
15-Jul-89	28.2	8.0	0.0	M	7.40	M	M	34.9	26.7	100	38	1.47	819	412
16-Jul-89	29.6	10.0	0.0	M	6.89	M	M	34.7	25.1	100	41	1.71	834	422
17-Jul-89	29.6	10.6	7.9	M	7.52	M	M	33.7	24.0	100	41	1.82	850	432
18-Jul-89	24.0	13.6	0.0	M	4.53	M	M	30.7	25.3	99	74	1.86	864	441
19-Jul-89	28.4	13.2	0.0	M	8.48	M	M	30.8	24.1	100	43	1.68	880	452
20-Jul-89	30.9	14.9	0.0	M	6.31	M	M	30.2	26.2	98	43	1.90	899	465
21-Jul-89	30.9	12.2	0.0	M	7.42	M	M	28.2	18.9	100	42	1.80	916	476
22-Jul-89	31.2	11.8	0.0	M	6.72	M	M	29.3	24.6	100	39	1.78	933	488
23-Jul-89	31.6	11.3	0.0	M	7.02	M	M	30.1	25.3	100	50	1.97	950	499
24-Jul-89	31.3	14.3	0.0	M	6.06	M	M	29.7	26.2	100	53	2.17	968	512
25-Jul-89	32.9	17.5	0.0	M	6.95	M	M	30.3	26.5	99	47	2.30	989	527
26-Jul-89	33.7	19.9	0.0	M	6.56	M	M	31.6	27.2	98	48	2.46	1011	544
27-Jul-89	24.4	14.9	0.0	M	6.95	M	M	30.2	27.4	88	55	1.74	1027	554
28-Jul-89	22.4	14.3	34.3	M	5.39	M	M	28.6	17.0	88	62	1.51	1040	562
29-Jul-89	17.0	13.7	12.7	M	1.30	M	M	24.5	22.7	100	88	1.69	1051	567
30-Jul-89	18.4	14.5	0.0	M	1.48	M	M	25.2	23.6	100	95	1.82	1063	574
31-Jul-89	28.7	13.4	0.0	M	6.74	M	M	29.7	24.0	100	58	2.03	1080	585
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	28.7	13.1	56.1	M	6.95	M	M	33.8	26.3	98	51	1.83	510	337

## CLOQUET

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Aug-89	32.5	15.7	0.0	M	6.24	M	M	31.4	26.4	99	62	2.52	1100	599
02-Aug-89	31.4	20.0	0.0	M	7.10	M	M	31.7	27.6	96	57	2.50	1121	615
03-Aug-89	32.8	22.0	0.0	M	5.16	M	M	32.0	28.6	97	61	2.85	1144	632
04-Aug-89	32.6	17.2	0.3	M	5.79	M	M	31.9	28.3	98	49	2.22	1164	647
05-Aug-89	22.8	10.2	0.3	M	5.36	M	M	29.7	27.6	99	65	1.70	1176	653
06-Aug-89	20.1	5.9	0.3	M	5.34	M	M	27.9	24.9	100	51	1.15	1185	656
07-Aug-89	23.7	3.9	1.3	M	7.61	M	M	28.4	23.6	100	41	1.17	1194	660
08-Aug-89	26.5	12.2	0.0	M	5.95	M	M	29.1	24.8	99	43	1.54	1209	670
09-Aug-89	29.4	9.6	0.0	M	6.64	M	M	29.6	24.7	100	36	1.52	1224	679
10-Aug-89	30.3	9.5	0.0	M	7.25	M	M	31.1	24.9	100	34	1.55	1240	689
11-Aug-89	30.8	13.1	0.0	M	7.08	M	M	31.1	26.8	99	36	1.68	1257	701
12-Aug-89	27.3	13.1	0.0	M	5.47	M	M	30.5	27.0	99	57	1.84	1273	711
13-Aug-89	28.9	15.8	0.0	M	5.28	M	M	31.2	27.1	100	54	2.04	1291	724
14-Aug-89	17.2	13.9	2.0	M	1.78	M	M	28.9	27.0	99	93	1.74	1302	729
15-Aug-89	23.1	9.2	2.3	M	5.10	M	M	29.1	25.8	100	53	1.47	1314	735
16-Aug-89	27.0	6.2	0.0	M	6.40	M	M	28.9	24.4	100	40	1.35	1326	742
17-Aug-89	26.5	10.4	0.3	M	5.96	M	M	29.4	25.6	100	58	1.72	1340	750
18-Aug-89	27.7	12.4	0.0	M	6.27	M	M	29.1	25.5	100	46	1.66	1355	760
19-Aug-89	18.4	15.1	3.6	M	0.91	M	M	27.6	25.6	98	75	1.79	1368	767
20-Aug-89	18.4	10.2	11.9	M	2.74	M	M	25.7	24.4	99	74	1.58	1378	771
21-Aug-89	23.9	4.9	0.0	M	6.04	M	M	27.3	21.8	100	68	1.54	1388	776
22-Aug-89	24.2	13.1	3.0	M	0.89	M	0.8	28.6	26.5	99	70	1.82	1402	785
23-Aug-89	22.9	13.0	0.0	M	4.65	M	1.2	28.8	25.4	99	73	1.78	1415	793
24-Aug-89	23.3	11.6	0.0	M	5.10	M	1.2	28.7	24.6	100	68	1.67	1428	800
25-Aug-89	25.3	11.8	0.0	M	4.93	M	1.0	28.7	24.7	100	58	1.67	1443	809
26-Aug-89	21.8	15.3	0.0	M	1.62	M	0.7	27.1	25.5	99	86	1.95	1457	817
27-Aug-89	23.2	11.9	20.3	M	5.26	M	1.0	26.4	23.4	99	48	1.55	1470	825
28-Aug-89	25.9	12.2	0.0	M	4.96	M	1.1	27.7	23.1	98	67	1.78	1484	834
29-Aug-89	22.0	11.6	6.6	M	5.61	M	1.9	27.3	23.9	99	58	1.56	1497	840
30-Aug-89	20.4	8.6	0.0	M	2.94	M	1.0	25.0	21.0	100	65	1.42	1507	845
31-Aug-89	19.2	12.5	58.7	M	0.96	M	1.3	21.8	18.3	99	96	1.75	1518	851

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL	
25.1	12.0	110.7	M	4.91	M	M	M	28.8	25.1	99	59	1.74	438	266

01-Sep-89	23.5	9.3	0.3	M	5.15	M	1.1	25.3	20.3	99	46	1.39	1530	857
02-Sep-89	24.9	6.0	0.0	M	4.80	M	0.6	25.1	20.4	100	42	1.28	1541	863
03-Sep-89	20.5	9.8	7.9	M	1.67	M	1.0	23.3	21.1	99	68	1.59	1552	868
04-Sep-89	22.5	11.9	18.3	M	2.50	M	1.2	23.7	21.0	98	61	1.67	1565	875
05-Sep-89	27.1	12.1	0.0	M	5.45	M	1.0	25.7	20.0	98	45	1.58	1580	885
06-Sep-89	26.4	11.2	0.0	M	3.42	M	0.9	25.7	21.3	99	74	1.96	1594	893
07-Sep-89	23.0	12.7	0.5	M	2.72	M	1.0	25.5	22.9	97	56	1.84	1608	901
08-Sep-89	21.2	11.0	0.0	M	3.93	M	1.2	24.1	20.5	99	58	1.42	1619	907
09-Sep-89	18.6	7.4	0.0	M	3.14	M	1.3	23.1	20.5	98	56	1.20	1628	910
10-Sep-89	17.0	4.0	0.0	M	4.03	M	1.0	21.8	18.5	100	40	0.89	1634	911
11-Sep-89	11.1	3.1	7.1	M	1.42	M	0.9	19.8	17.3	100	71	0.96	1637	911
12-Sep-89	16.5	2.4	0.0	M	4.37	M	1.5	20.4	16.0	100	46	0.91	1642	911
13-Sep-89	17.9	-0.6	0.0	M	4.71	M	1.0	20.1	15.4	100	45	0.85	1646	911
14-Sep-89	20.4	2.2	0.0	M	4.99	M	1.0	20.8	15.5	100	45	0.96	1653	912
15-Sep-89	21.3	2.7	0.0	M	4.92	M	1.0	21.0	16.2	100	44	1.05	1660	914
16-Sep-89	24.5	7.7	0.0	M	4.67	M	1.0	21.8	16.9	99	57	1.40	1672	920
17-Sep-89	26.7	9.0	0.0	M	4.44	M	0.9	22.7	18.0	99	60	1.60	1685	928
18-Sep-89	28.0	12.3	0.0	M	4.54	M	1.6	23.6	19.1	99	48	1.85	1701	938
19-Sep-89	20.2	16.1	11.4	M	0.87	M	1.2	22.3	21.1	97	81	1.91	1715	947
20-Sep-89	16.2	14.3	0.0	M	0.92	M	0.8	21.4	20.1	98	95	1.67	1726	952
21-Sep-89	19.3	14.6	27.7	M	2.13	M	0.8	22.3	19.8	98	91	1.79	1738	959
22-Sep-89	16.5	0.0	0.3	M	3.39	M	3.1	21.3	17.2	97	37	0.81	1742	959
23-Sep-89	11.7	-1.8	0.0	M	4.61	M	1.4	18.4	14.7	100	41	0.55	1742	959
24-Sep-89	16.8	-0.4	0.0	M	4.38	M	1.6	18.2	14.0	100	32	0.62	1746	959
25-Sep-89	13.0	-0.3	0.0	M	3.86	M	2.0	17.7	14.5	98	43	0.70	1748	959
26-Sep-89	14.2	-2.8	0.0	M	4.34	M	0.8	17.1	13.0	100	42	0.64	1749	959
27-Sep-89	20.0	0.2	0.0	M	3.56	M	1.6	16.9	13.2	100	40	0.78	1755	959
28-Sep-89	26.4	10.3	0.0	M	3.83	M	1.9	19.4	14.7	63	34	0.93	1769	967
29-Sep-89	19.7	1.3	0.0	M	4.03	M	1.2	18.7	15.0	99	34	0.82	1775	968
30-Sep-89	25.1	5.6	0.0	M	3.71	M	1.7	19.3	15.4	98	35	1.01	1786	973

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL	
20.3	6.4	73.4	M	3.68	M	M	M	21.6	17.8	98	52	1.22	268	122

## CLOQUET

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Oct-89	26.5	6.1	0.0	M	3.15	M	2.2	20.3	16.9	98	43	1.29	1798	979
02-Oct-89	6.2	-1.0	6.3	M	2.05	M	3.0	19.1	14.3	98	61	0.58	1798	979
03-Oct-89	6.8	-4.6	0.0	M	3.79	M	1.6	14.9	11.6	95	46	0.41	1798	979
04-Oct-89	14.8	-4.0	0.0	M	3.60	M	1.0	14.8	10.3	97	29	0.53	1799	979
05-Oct-89	9.4	3.2	2.0	M	0.73	M	1.2	13.7	12.5	100	91	0.93	1801	979
06-Oct-89	6.8	1.4	0.0	M	1.37	M	2.5	13.2	11.6	91	58	0.59	1801	979
07-Oct-89	8.8	-4.3	0.0	M	3.38	M	1.6	13.4	10.2	96	43	0.48	1801	979
08-Oct-89	9.8	-6.6	0.0	M	3.40	M	0.7	12.5	8.7	99	35	0.44	1801	979
09-Oct-89	6.8	-4.1	3.6	M	0.70	M	0.8	10.8	9.1	100	65	0.66	1801	979
10-Oct-89	14.4	4.9	1.8	M	2.24	M	1.0	13.6	9.6	100	56	0.94	1806	979
11-Oct-89	21.0	6.2	0.0	M	2.56	M	1.5	14.7	10.7	85	41	0.89	1815	983
12-Oct-89	20.2	2.0	0.0	M	3.01	M	1.5	14.2	10.4	92	35	0.73	1822	984
13-Oct-89	17.3	-0.4	0.0	M	1.82	M	0.8	13.6	10.6	99	46	0.70	1826	984
14-Oct-89	20.1	-0.8	0.0	M	2.81	M	1.0	14.3	10.8	99	22	0.69	1831	984
15-Oct-89	7.4	4.1	0.0	M	0.72	M	1.7	12.9	11.8	100	83	0.85	1832	984
16-Oct-89	4.3	-0.6	0.0	M	0.81	M	1.5	12.1	10.4	90	71	0.54	1832	984
17-Oct-89	5.3	-3.4	0.0	M	1.84	M	1.1	11.0	9.1	94	52	0.47	1832	984
18-Oct-89	5.0	-5.3	0.0	M	1.63	M	1.1	9.7	7.7	94	53	0.44	1832	984
19-Oct-89	7.8	-6.3	0.0	M	2.00	302	0.9	9.1	6.4	94	42	0.41	1832	984
20-Oct-89	13.5	-7.7	0.0	M	2.36	310	1.1	9.0	5.8	97	24	0.41	1832	984
21-Oct-89	13.9	-4.3	0.0	M	2.43	266	0.8	9.1	5.9	98	42	0.58	1832	984
22-Oct-89	18.6	-1.6	0.0	M	2.29	88	0.8	10.2	6.6	99	36	0.67	1837	984
23-Oct-89	22.6	-1.8	0.0	M	2.20	295	0.6	11.1	7.5	99	31	0.75	1842	984
24-Oct-89	20.1	-0.6	0.0	M	2.10	82	0.6	11.4	8.4	99	44	0.82	1848	984
25-Oct-89	24.7	5.3	0.0	M	2.05	91	0.8	12.6	9.2	100	58	1.30	1858	989
26-Oct-89	25.3	9.3	0.0	M	2.37	169	2.3	14.1	10.9	98	51	1.50	1871	997
27-Oct-89	18.2	6.4	0.0	M	2.94	196	3.2	14.4	12.5	77	46	1.01	1879	999
28-Oct-89	18.2	-0.9	0.0	M	3.10	196	1.3	12.5	10.3	99	35	0.75	1883	999
29-Oct-89	13.0	2.4	12.7	M	0.33	341	2.7	12.0	11.2	99	88	1.04	1887	999
30-Oct-89	4.1	-2.0	0.0	M	1.56	349	1.3	11.3	8.8	98	60	0.51	1887	999
31-Oct-89	2.0	-1.3	0.0	M	0.94	331	1.5	8.8	7.8	86	69	0.48	1887	999
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
13.3	-0.3	26.4	M	2.14	M	1.4	12.7	9.9	96	50	0.72	101	26	

## CROOKSTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 7.2
01-Apr-89	5.1	-0.9	2.2	M	2.58	194	4.0	-0.4	-0.4	94	87	0.61	0	0
02-Apr-89	10.1	-2.8	4.9	M	4.22	167	3.0	-0.4	-0.4	94	57	0.67	0	0
03-Apr-89	3.9	0.7	0.0	M	0.89	56	3.2	-0.3	-0.4	93	91	0.70	0	0
04-Apr-89	3.8	-2.5	0.0	M	5.45	341	3.9	-0.2	-0.4	94	80	0.56	0	0
05-Apr-89	2.8	-2.2	0.0	M	3.19	336	2.6	1.4	-0.2	94	90	0.59	0	0
06-Apr-89	2.9	-3.2	0.0	M	5.45	351	2.1	5.3	-0.2	94	61	0.49	0	0
07-Apr-89	4.3	-6.8	0.0	M	2.25	348	4.2	1.9	-0.2	94	77	0.52	0	0
08-Apr-89	-4.9	-10.1	0.0	M	5.27	348	5.5	-0.0	-0.2	87	72	0.27	0	0
09-Apr-89	-3.9	-10.2	0.0	M	6.00	341	5.9	-0.1	-0.5	83	72	0.29	0	0
10-Apr-89	4.9	-7.2	0.0	M	4.14	261	3.3	-0.2	-1.0	94	62	0.49	0	0
11-Apr-89	-0.4	-4.4	0.5	M	6.14	350	3.6	3.7	-0.2	93	73	0.43	0	0
12-Apr-89	5.5	-5.8	0.0	M	6.32	143	1.8	9.2	-0.1	94	42	0.41	0	0
13-Apr-89	11.2	1.1	0.0	M	3.02	243	4.4	7.5	0.5	91	69	0.74	2	0
14-Apr-89	6.1	-1.1	0.0	M	6.22	336	3.6	8.6	0.7	94	75	0.64	2	0
15-Apr-89	14.9	0.3	0.0	M	4.72	202	5.6	8.2	0.6	93	51	0.84	5	0
16-Apr-89	11.6	-4.9	0.5	M	4.22	357	3.8	11.3	2.1	93	65	0.68	5	0
17-Apr-89	3.3	-8.4	0.0	M	6.10	245	3.7	6.6	0.3	87	57	0.38	5	0
18-Apr-89	9.4	-0.6	0.0	M	6.51	301	3.9	9.5	0.3	91	46	0.57	5	0
19-Apr-89	16.3	-0.9	0.0	M	6.45	54	2.2	13.1	0.9	89	20	0.57	8	1
20-Apr-89	14.1	2.7	0.2	M	1.94	93	2.2	8.0	3.7	76	43	0.65	12	2
21-Apr-89	21.0	-0.2	0.0	M	6.27	133	3.7	14.7	1.2	88	38	0.83	18	5
22-Apr-89	23.5	11.4	0.0	M	5.70	132	6.1	17.6	7.9	73	44	1.12	31	16
23-Apr-89	18.5	9.6	0.0	M	2.10	139	4.0	12.9	8.9	77	53	1.01	41	22
24-Apr-89	23.2	9.0	0.0	M	4.61	8	3.6	18.4	7.9	91	54	1.21	52	31
25-Apr-89	18.6	6.2	0.0	M	6.01	357	3.8	18.7	8.6	91	46	0.96	60	36
26-Apr-89	13.8	4.9	1.2	M	1.48	33	2.6	11.7	7.0	86	45	0.79	65	39
27-Apr-89	12.7	2.4	0.0	M	3.53	42	3.3	12.2	5.0	81	56	0.68	68	39
28-Apr-89	15.4	3.0	0.0	M	5.90	40	2.8	15.6	4.5	78	22	0.56	73	41
29-Apr-89	10.6	0.4	0.0	M	3.09	40	2.3	10.8	5.5	85	50	0.63	74	41
30-Apr-89	10.0	0.0	0.0	M	3.55	360	2.0	11.6	4.4	91	42	0.54	75	41

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
9.6	-0.7	9.6	M	4.44	212	3.6	7.9	2.2	89	58	0.65	75	41

01-May-89	13.6	-1.8	0.0	M	4.39	186	2.1	13.6	3.5	88	34	0.53	76	41
02-May-89	19.8	3.9	0.0	M	7.04	286	3.4	19.3	6.3	80	16	0.56	84	45
03-May-89	21.8	4.0	1.7	M	6.03	222	3.9	18.2	7.3	79	16	0.63	92	51
04-May-89	20.1	-0.8	2.9	M	3.92	310	5.2	17.2	6.7	92	38	0.96	97	54
05-May-89	2.3	-4.8	0.0	M	5.77	344	7.6	7.6	2.4	85	34	0.32	97	54
06-May-89	14.0	-5.5	0.0	M	7.27	337	3.3	15.2	1.5	63	16	0.26	97	54
07-May-89	23.9	2.2	1.2	M	6.62	163	4.9	17.9	4.9	47	14	0.38	106	59
08-May-89	20.5	9.0	0.0	M	5.30	89	3.1	19.9	10.0	91	39	1.01	116	67
09-May-89	25.4	2.8	0.0	M	7.18	12	1.8	23.4	8.8	93	15	0.65	126	74
10-May-89	27.1	5.5	0.0	M	7.20	150	4.1	23.6	11.0	73	12	0.63	138	83
11-May-89	27.2	14.3	0.0	M	6.80	158	7.6	22.3	13.9	44	14	0.62	154	96
12-May-89	28.2	12.5	0.0	M	7.51	145	5.0	24.4	13.7	36	12	0.47	170	110
13-May-89	28.1	10.1	0.0	M	7.55	123	2.7	26.3	13.6	39	12	0.44	185	122
14-May-89	29.1	14.5	0.0	M	6.62	137	2.4	27.2	16.5	60	23	0.99	202	136
15-May-89	30.4	9.9	0.0	8.3	5.88	156	2.3	25.4	15.4	74	20	1.01	218	149
16-May-89	30.6	14.6	0.7	9.6	5.25	166	4.6	24.7	16.8	68	16	1.02	236	164
17-May-89	20.0	17.0	50.5	2.9	1.24	161	5.0	19.8	15.5	90	52	1.69	250	176
18-May-89	23.6	14.9	2.5	4.2	3.65	163	4.1	21.1	14.8	91	73	1.86	265	188
19-May-89	19.7	9.3	13.7	4.4	1.30	200	3.7	18.1	12.2	91	83	1.55	275	195
20-May-89	21.3	6.7	0.0	6.9	7.20	255	4.2	19.7	9.4	92	34	1.04	285	202
21-May-89	27.3	6.7	0.0	7.8	7.44	164	4.2	24.9	9.8	89	16	0.92	297	212
22-May-89	19.8	10.6	2.7	3.4	2.69	200	2.7	17.7	13.6	91	57	1.42	308	220
23-May-89	24.2	12.6	15.7	2.2	7.23	87	2.3	25.7	12.1	91	45	1.41	322	231
24-May-89	18.8	9.6	8.1	5.9	1.69	192	4.2	17.8	13.0	90	69	1.40	332	238
25-May-89	16.6	5.0	6.4	3.4	5.56	269	5.9	16.9	9.8	92	59	1.03	338	241
26-May-89	16.1	4.8	0.0	4.7	6.45	329	4.3	17.3	8.8	92	43	0.84	344	245
27-May-89	23.8	6.5	0.0	6.4	7.64	177	5.4	22.1	8.5	83	24	0.89	355	252
28-May-89	21.5	10.0	1.0	4.4	5.77	98	3.1	23.7	13.8	83	44	1.20	366	261
29-May-89	16.1	7.9	3.2	3.9	3.43	51	2.8	17.1	12.2	91	74	1.11	374	266
30-May-89	16.9	7.5	1.5	1.5	3.05	24	1.7	16.6	10.8	90	47	1.05	381	271
31-May-89	22.0	10.2	0.0	4.4	5.78	253	2.3	23.4	11.6	90	45	1.25	393	280

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
21.6	7.4	111.7	M	5.50	181	3.9	20.3	10.6	79	35	0.94	318	239

CROOKSTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 7.2
01-Jun-89	24.2	9.1	1.0	6.9	7.08	214	3.6	24.5	13.0	91	35	1.21	405	289
02-Jun-89	21.3	9.8	0.0	7.3	7.02	332	3.2	25.3	15.2	90	19	1.10	416	297
03-Jun-89	24.0	4.8	0.0	9.6	7.39	327	3.0	25.5	12.6	80	18	0.71	426	305
04-Jun-89	19.9	3.8	0.0	5.4	6.75	175	2.5	24.0	12.7	79	29	0.71	434	309
05-Jun-89	22.9	10.8	0.0	4.9	4.63	320	1.7	24.2	15.8	84	42	1.25	446	319
06-Jun-89	28.6	8.8	3.4	9.8	6.70	169	3.9	26.2	14.3	90	30	1.23	460	330
07-Jun-89	15.6	9.1	0.5	2.5	1.72	15	2.8	20.6	13.2	92	87	1.31	468	335
08-Jun-89	19.1	6.4	0.0	4.7	6.25	26	2.4	23.3	11.3	91	34	0.92	477	341
09-Jun-89	23.1	3.8	0.0	7.1	8.11	152	1.8	27.4	11.6	93	27	0.91	486	347
10-Jun-89	25.6	6.1	0.0	7.8	7.96	149	3.1	27.3	14.3	88	27	0.97	497	356
11-Jun-89	24.5	15.0	1.7	7.1	3.89	149	4.9	22.3	17.0	86	48	1.48	512	368
12-Jun-89	18.5	9.6	0.5	3.9	1.72	287	4.7	18.7	14.1	90	81	1.46	522	375
13-Jun-89	12.2	8.7	4.9	5.1	1.79	35	2.4	15.0	12.3	91	80	1.14	528	378
14-Jun-89	20.8	5.1	0.0	5.4	7.98	358	2.0	24.2	9.4	93	40	1.07	536	384
15-Jun-89	25.1	6.7	0.0	7.6	8.00	159	1.6	28.3	12.4	92	27	1.02	548	393
16-Jun-89	26.6	16.9	0.0	9.6	3.49	148	5.1	27.6	20.7	50	24	0.93	565	407
17-Jun-89	25.3	13.9	0.0	8.3	4.59	197	3.9	24.2	17.1	90	44	1.38	580	420
18-Jun-89	28.9	14.5	4.2	10.5	7.65	256	2.4	29.1	15.7	90	24	1.37	598	434
19-Jun-89	32.8	15.3	0.0	15.4	7.93	158	4.6	30.4	18.3	87	28	1.58	617	451
20-Jun-89	31.0	21.0	5.4	7.6	3.41	159	6.1	25.9	22.1	82	46	2.04	639	470
21-Jun-89	22.5	13.3	3.7	2.7	2.35	327	3.4	23.6	17.0	89	77	1.77	652	481
22-Jun-89	26.5	10.9	18.6	0.0	7.51	310	1.8	28.2	14.0	90	35	1.37	666	492
23-Jun-89	26.2	14.6	11.8	8.1	6.58	40	1.7	27.1	17.4	90	49	1.64	682	505
24-Jun-89	25.5	14.4	9.1	5.1	5.59	154	2.0	24.8	15.9	90	58	1.78	698	518
25-Jun-89	25.1	17.4	0.0	4.4	4.31	81	1.8	25.1	17.4	89	64	2.01	715	532
26-Jun-89	22.8	12.9	0.0	7.8	7.23	252	3.7	26.3	17.3	88	50	1.55	728	543
27-Jun-89	24.8	9.7	0.0	5.6	8.13	321	2.0	30.5	14.9	90	47	1.43	741	553
28-Jun-89	28.0	20.7	1.7	7.8	3.29	126	4.1	31.4	24.4	78	57	2.04	761	570
29-Jun-89	28.9	18.4	0.0	8.1	7.13	221	4.6	31.0	20.5	89	56	2.13	780	586
30-Jun-89	36.5	19.1	0.0	6.9	7.45	7	1.7	35.0	20.5	89	37	2.39	803	607
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	24.6	11.7	66.4	203.1	5.79	187	3.1	25.9	15.7	87	44	1.40	410	327

01-Jul-89	31.8	18.2	0.0	10.0	7.75	153	3.6	34.6	22.5	88	51	2.38	824	625
02-Jul-89	29.9	18.8	0.0	6.6	6.11	335	3.0	33.3	23.7	87	62	2.25	844	642
03-Jul-89	30.2	16.3	0.0	M	8.02	295	2.4	34.2	21.5	89	21	1.50	863	658
04-Jul-89	34.6	15.0	0.0	12.3	7.87	157	3.8	34.3	21.8	86	38	1.99	883	675
05-Jul-89	36.7	22.0	4.7	9.6	4.50	167	4.1	31.9	25.1	88	47	2.77	908	697
06-Jul-89	30.3	14.8	0.0	6.1	7.50	350	2.6	32.9	21.8	87	44	2.01	926	713
07-Jul-89 *	28.3	16.1	0.0	10.0	M	M	M	M	M	M	M	M	944	728
08-Jul-89 *	32.8	17.2	3.2	9.1	M	M	M	M	M	M	M	M	964	746
09-Jul-89 *	31.1	15.0	0.0	6.4	M	M	M	M	M	M	M	M	983	761
10-Jul-89 *	27.8	16.1	0.0	4.9	M	M	M	M	M	M	M	M	1001	776
11-Jul-89 *	26.7	16.1	0.0	4.7	M	M	M	M	M	M	M	M	1018	790
12-Jul-89 *	28.9	13.9	0.0	7.3	M	M	M	M	M	M	M	M	1034	804
13-Jul-89	28.1	15.7	0.0	5.6	7.24	39	1.5	32.8	21.4	89	36	1.65	1052	819
14-Jul-89	29.7	12.2	0.0	6.4	6.34	30	1.3	31.8	21.0	89	23	1.39	1068	833
15-Jul-89	31.2	12.3	0.0	6.9	7.59	331	1.3	34.1	20.8	89	18	1.36	1086	847
16-Jul-89	32.4	13.8	0.0	8.1	6.87	187	1.8	33.6	21.8	87	18	1.38	1104	863
17-Jul-89	29.4	15.0	0.0	6.4	5.90	179	2.6	30.8	22.3	86	38	1.74	1122	878
18-Jul-89	30.9	16.6	1.0	6.9	6.48	19	2.0	32.3	21.9	88	36	1.87	1141	895
19-Jul-89	32.8	14.4	0.0	7.6	7.18	16	1.5	33.0	20.9	90	21	1.69	1161	911
20-Jul-89	35.2	13.5	0.0	7.8	6.69	159	1.4	33.9	21.6	89	18	1.46	1180	928
21-Jul-89	35.6	16.9	0.0	9.6	7.10	156	2.1	34.7	22.8	78	19	1.51	1202	947
22-Jul-89	31.6	17.8	0.0	9.3	6.27	176	2.9	32.3	23.5	86	32	1.78	1223	965
23-Jul-89	31.1	17.0	0.0	8.8	6.07	168	3.1	31.8	22.5	83	43	1.92	1242	982
24-Jul-89	31.7	20.2	0.0	9.8	5.86	178	4.0	31.6	23.4	86	43	2.09	1264	1000
25-Jul-89	35.8	20.9	0.0	12.5	7.02	191	4.6	33.8	23.7	82	31	2.05	1288	1021
26-Jul-89	33.8	17.7	0.0	11.0	7.02	308	2.8	35.4	24.6	87	38	2.02	1309	1040
27-Jul-89	23.2	13.8	1.0	5.4	5.64	15	2.4	30.0	22.7	89	53	1.46	1323	1051
28-Jul-89	23.3	14.3	3.9	5.9	2.13	82	2.0	24.3	20.4	89	75	1.80	1337	1063
29-Jul-89	30.7	16.6	0.0	4.9	4.71	116	1.8	29.3	18.8	89	59	2.19	1356	1079
30-Jul-89	29.0	17.5	0.0	5.6	5.43	341	1.9	30.7	21.1	88	48	2.13	1375	1095
31-Jul-89	34.6	15.6	0.0	10.5	6.43	186	2.8	32.4	20.6	88	30	1.76	1396	1113
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.9	16.2	13.7	M	M	M	M	M	M	M	M	M	593	506



## CROOKSTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 7.2
01-Aug-89	38.0	23.1	0.0	13.0	6.76	200	4.8	34.2	23.8	85	24	2.14	1422	1136
02-Aug-89	34.4	28.2	0.7	12.5	1.70	181	6.7	32.5	28.6	70	50	2.70	1449	1160
03-Aug-89	28.6	20.1	0.0	11.5	6.45	39	1.1	34.2	28.2	92	56	2.26	1469	1178
04-Aug-89	33.5	18.7	0.0	13.2	6.42	266	3.7	33.4	23.4	96	24	1.73	1490	1196
05-Aug-89	19.8	13.3	0.0	4.9	2.03	322	4.6	26.1	20.3	85	59	1.41	1503	1206
06-Aug-89	24.3	5.7	0.0	6.4	6.14	337	2.8	27.2	16.6	99	36	1.09	1513	1214
07-Aug-89	27.6	9.8	0.0	6.4	6.83	333	2.2	30.1	17.6	81	30	1.09	1527	1225
08-Aug-89	31.1	14.7	0.0	7.3	4.95	349	1.7	31.5	22.8	66	22	1.04	1546	1241
09-Aug-89	33.4	13.9	0.0	7.8	6.88	181	2.3	32.6	19.7	74	15	1.03	1565	1257
10-Aug-89	33.8	17.4	0.0	9.1	5.53	169	3.2	31.0	21.3	62	25	1.31	1586	1276
11-Aug-89	34.1	17.5	0.0	9.1	5.89	160	3.4	32.9	22.3	79	35	1.74	1608	1294
12-Aug-89	35.2	17.5	13.5	11.0	5.33	184	3.3	33.1	22.1	90	36	1.90	1629	1313
13-Aug-89	28.2	16.3	0.0	7.6	4.75	22	2.3	27.9	19.3	96	57	2.00	1647	1328
14-Aug-89	24.7	13.6	0.0	3.4	3.76	347	2.5	26.6	18.9	97	50	1.64	1662	1340
15-Aug-89	26.8	10.9	0.0	4.7	6.03	44	1.2	29.5	16.3	100	36	1.40	1676	1352
16-Aug-89	29.2	9.6	0.0	8.3	6.59	140	1.9	30.6	17.2	94	31	1.31	1691	1364
17-Aug-89	30.9	16.0	0.0	11.3	5.79	161	4.9	29.1	19.4	75	41	1.59	1710	1380
18-Aug-89	32.5	20.6	14.2	3.4	4.98	173	6.3	29.9	21.6	96	41	1.83	1732	1400
19-Aug-89	31.8	14.5	0.0	5.6	4.50	296	4.0	25.7	19.5	95	60	2.44	1751	1415
20-Aug-89	18.1	10.2	0.0	3.4	3.08	330	2.6	20.6	15.7	98	69	1.34	1761	1422
21-Aug-89	24.7	10.2	27.4	2.9	2.94	127	2.1	21.7	13.4	98	62	1.84	1774	1433
22-Aug-89	28.3	18.1	0.0	4.7	6.05	89	1.4	26.8	14.8	98	57	2.42	1793	1449
23-Aug-89	30.2	17.9	0.0	9.8	5.71	144	3.5	28.5	17.7	95	53	2.12	1812	1465
24-Aug-89	28.9	18.1	0.0	8.8	5.83	156	5.6	29.1	19.0	92	59	2.07	1831	1482
25-Aug-89	23.1	17.4	5.6	2.5	1.82	165	5.0	22.5	19.3	93	76	2.14	1847	1495
26-Aug-89	26.1	14.1	0.0	4.9	4.18	266	2.7	25.4	18.2	94	45	2.57	1863	1508
27-Aug-89	25.9	11.0	2.5	3.9	4.61	165	1.5	25.6	14.5	99	42	1.47	1877	1519
28-Aug-89	27.8	15.1	0.2	3.7	2.55	178	3.0	21.9	17.0	97	80	1.95	1894	1533
29-Aug-89	20.5	10.5	25.5	1.5	4.73	289	4.1	21.0	14.8	98	62	1.41	1905	1541
30-Aug-89	21.1	10.8	2.5	3.9	3.20	75	2.0	19.8	13.8	99	64	1.57	1916	1550
31-Aug-89	22.8	14.3	0.0	3.9	3.31	39	2.3	21.5	14.7	97	77	1.92	1931	1562
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
28.2	15.1	92.1	210.5	4.82	191	3.2	27.8	19.1	90	48	1.76	535	449	

01-Sep-89	23.6	12.6	12.2	2.5	5.49	333	2.3	23.6	14.8	97	47	1.52	1944	1572
02-Sep-89	25.5	11.3	0.0	3.8	5.35	143	1.9	24.6	13.1	99	42	1.49	1958	1584
03-Sep-89	18.9	16.4	0.0	4.3	0.81	155	3.6	17.6	16.1	97	82	3.05	1971	1594
04-Sep-89	23.3	14.0	0.0	4.6	5.48	259	3.8	22.4	14.6	93	57	M	1986	1605
05-Sep-89	29.0	13.1	0.0	5.1	6.98	175	3.9	24.5	13.4	96	44	1.73	2002	1619
06-Sep-89	28.3	13.3	0.0	3.8	1.36	169	3.5	20.9	17.4	93	65	M	2019	1633
07-Sep-89	23.3	10.3	0.0	4.6	6.13	248	3.0	23.8	14.0	93	53	1.45	2031	1642
08-Sep-89	21.5	8.3	0.0	4.8	7.32	279	3.9	24.4	13.6	96	43	1.19	2041	1650
09-Sep-89	15.4	5.0	0.0	2.3	3.48	295	2.7	17.4	12.1	99	56	1.01	2047	1653
10-Sep-89	17.0	2.3	5.8	3.6	4.69	163	1.1	18.2	8.7	100	46	0.87	2052	1656
11-Sep-89	13.6	6.2	0.8	2.8	4.71	257	3.3	13.5	10.5	98	79	1.08	2058	1658
12-Sep-89	16.0	6.2	0.0	2.8	4.98	296	2.2	17.6	7.8	99	53	1.05	2064	1662
13-Sep-89	19.8	4.1	0.0	4.1	5.59	198	4.2	18.0	7.8	95	40	0.88	2072	1667
14-Sep-89	23.8	6.9	0.0	4.8	5.43	185	3.1	21.9	9.4	87	41	1.08	2083	1675
15-Sep-89	25.9	10.0	0.0	5.3	5.34	178	5.2	22.4	11.8	78	38	1.17	2096	1686
16-Sep-89	27.9	9.9	0.0	7.9	5.05	110	1.9	24.8	13.0	98	38	1.44	2111	1697
17-Sep-89	31.0	15.7	0.0	9.7	4.45	164	5.8	25.1	15.0	94	45	1.91	2130	1713
18-Sep-89	31.0	13.4	0.0	8.4	3.89	187	6.9	25.6	18.6	85	39	1.76	2147	1728
19-Sep-89	21.3	9.1	0.0	4.6	2.13	322	1.7	23.4	15.6	94	54	1.27	2158	1736
20-Sep-89	23.8	8.6	0.0	2.0	0.76	158	2.2	19.4	14.0	98	82	1.80	2170	1745
21-Sep-89	16.3	5.5	3.8	0.0	4.91	358	2.3	16.6	10.9	99	79	1.30	2176	1749
22-Sep-89	11.9	0.6	0.0	3.6	5.14	344	5.0	14.8	7.8	98	36	0.64	2178	1749
23-Sep-89	12.4	-3.8	0.0	3.6	3.49	195	3.0	16.9	4.7	95	44	0.56	2178	1749
24-Sep-89	20.1	5.6	0.0	5.1	5.95	198	5.5	17.3	7.7	67	43	0.80	2187	1755
25-Sep-89	13.6	0.1	0.0	M	4.39	336	1.9	17.6	9.8	89	41	0.56	2189	1755
26-Sep-89	16.7	-2.3	0.0	M	4.82	161	3.0	17.6	6.1	100	40	0.67	2192	1755
27-Sep-89	26.3	15.9	0.0	M	1.77	197	4.5	20.2	15.7	64	38	1.20	2208	1768
28-Sep-89	24.5	5.7	0.0	M	4.47	312	3.0	21.3	12.3	90	27	0.98	2219	1776
29-Sep-89	22.5	2.4	0.0	M	4.39	154	2.9	19.9	9.5	90	34	0.85	2227	1781
30-Sep-89	29.8	15.6	0.0	M	3.92	189	5.6	22.2	13.7	57	36	1.22	2245	1797
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
21.8	8.1	22.6	M	4.42	224	3.4	20.5	12.0	91	49	M	314	235	

## CROOKSTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 7.2
01-Oct-89	21.5	1.6	0.3	M	0.94	329	6.2	18.4	9.7	93	45	0.90	2252	1801
02-Oct-89	4.2	-6.5	0.0	M	2.30	334	4.5	11.0	5.6	86	49	0.43	2252	1801
03-Oct-89	10.5	-9.4	0.0	M	4.42	272	2.1	13.7	2.6	92	35	0.37	2252	1801
04-Oct-89	13.9	-3.3	1.8	M	2.78	175	3.5	12.1	3.7	88	31	0.54	2253	1801
05-Oct-89	11.5	3.5	1.5	M	1.28	288	3.5	9.9	6.4	97	63	0.82	2256	1802
06-Oct-89	8.6	-3.8	0.0	M	3.87	324	0.5	12.3	5.0	90	51	0.54	2256	1802
07-Oct-89	11.9	-7.6	0.0	M	3.81	257	0.5	12.4	2.1	98	24	0.40	2256	1802
08-Oct-89	13.3	-8.0	1.5	M	3.34	174	1.1	12.0	2.1	91	24	0.39	2256	1802
09-Oct-89	15.1	3.2	1.8	M	2.55	299	4.1	11.3	5.6	96	43	0.76	2261	1804
10-Oct-89	19.4	1.5	0.0	M	3.16	181	4.3	13.7	5.2	100	35	0.79	2267	1807
11-Oct-89	16.4	5.6	0.0	M	2.60	270	4.4	14.4	8.0	66	34	0.71	2274	1811
12-Oct-89	21.0	3.3	0.0	M	2.67	239	3.1	14.6	5.9	70	23	0.60	2281	1816
13-Oct-89	24.3	2.9	0.0	M	1.48	228	2.3	13.5	6.3	70	27	0.71	2290	1822
14-Oct-89	18.2	-1.2	0.0	M	2.59	27	2.0	13.8	6.0	84	40	0.72	2295	1823
15-Oct-89	11.1	-0.5	0.0	M	0.63	341	4.3	10.9	6.2	95	64	0.79	2295	1823
16-Oct-89	8.2	-2.5	0.0	M	3.19	353	2.1	11.3	3.3	98	49	0.52	2295	1823
17-Oct-89	5.3	-4.4	0.0	M	0.82	351	2.7	6.5	3.2	100	58	0.51	2295	1823
18-Oct-89	8.1	-7.8	0.0	M	3.41	227	1.7	10.2	1.3	95	44	0.40	2295	1823
19-Oct-89	11.7	-5.0	0.0	M	3.42	192	4.2	9.6	1.2	76	32	0.38	2295	1823
20-Oct-89	16.6	-2.2	0.0	M	3.26	177	2.1	12.1	2.4	58	23	0.37	2298	1823
21-Oct-89	18.8	-3.6	0.0	M	2.88	167	4.0	11.7	2.3	73	22	0.47	2301	1824
22-Oct-89	20.2	5.8	0.0	M	2.82	179	2.9	14.0	6.1	58	30	0.58	2310	1829
23-Oct-89	22.7	1.2	0.0	M	2.95	297	1.8	14.9	5.4	71	23	0.62	2317	1834
24-Oct-89	25.9	3.7	0.0	M	2.89	162	4.2	15.4	6.4	67	24	0.77	2328	1842
25-Oct-89	26.6	11.3	0.0	M	2.45	175	4.8	16.7	9.9	82	42	1.23	2342	1853
26-Oct-89	24.7	18.5	0.0	M	1.72	164	6.9	17.7	14.0	78	51	1.65	2359	1868
27-Oct-89	21.3	4.8	0.0	M	1.14	214	8.5	16.4	9.7	74	49	0.87	2368	1874
28-Oct-89	13.4	-0.4	0.0	M	1.78	1	2.4	11.9	6.4	78	56	0.65	2370	1874
29-Oct-89	7.6	-4.3	0.0	M	1.25	340	4.0	9.2	4.4	86	55	0.53	2370	1874
30-Oct-89	4.6	-9.0	0.0	M	2.76	356	1.8	8.3	1.7	81	48	0.32	2370	1874
31-Oct-89	4.0	-12.2	0.0	M	1.54	8	2.2	4.6	0.5	88	51	0.34	2370	1874
MEAN	MEAN	TOTL		TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
14.9	-0.8	6.9		M	2.47	229	3.3	12.4	5.1	83	40	0.64	125	77

GRAND RAPIDS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Apr-89	2.4	-7.3	0.0	M	1.97	147	2.4	0.3	0.2	84	67	M	0	0
02-Apr-89	17.7	-4.8	6.6	M	5.46	152	1.3	0.3	0.2	85	30	M	2	4
03-Apr-89	6.7	2.7	0.3	M	0.85	81	2.6	0.3	0.2	81	56	M	2	4
04-Apr-89	6.0	-1.5	20.6	M	3.66	336	2.5	0.2	0.2	82	70	M	2	4
05-Apr-89	11.1	-3.7	0.0	M	5.80	292	1.4	0.2	0.2	83	39	M	2	4
06-Apr-89	6.8	-3.9	0.0	M	6.82	337	2.4	0.2	0.2	82	21	M	2	4
07-Apr-89	6.0	-7.6	0.0	M	3.64	273	1.8	0.2	0.2	84	49	M	2	4
08-Apr-89	-5.6	-12.1	4.6	M	4.80	328	3.4	0.3	0.2	83	43	M	2	4
09-Apr-89	-0.2	-9.4	0.8	M	5.09	332	3.2	0.3	0.2	84	43	M	2	4
10-Apr-89	3.9	-11.0	0.0	M	5.55	261	1.7	0.3	0.2	83	28	M	2	4
11-Apr-89	2.1	-5.1	1.0	M	4.49	329	2.2	0.3	0.2	83	45	M	2	4
12-Apr-89	7.0	-8.5	0.0	M	7.15	335	1.1	0.3	0.2	81	22	M	2	4
13-Apr-89	12.2	-4.1	0.0	M	3.72	175	2.3	0.3	0.2	78	42	M	2	5
14-Apr-89	9.5	-1.7	0.0	M	6.07	316	2.5	0.9	0.3	81	28	M	2	5
15-Apr-89	13.8	-4.2	0.0	M	6.47	178	2.2	7.1	0.4	84	25	M	3	7
16-Apr-89	13.9	-4.0	0.0	M	4.66	335	2.7	9.6	3.0	83	27	M	3	9
17-Apr-89	2.7	-9.3	1.3	M	7.37	317	2.4	8.7	1.8	84	23	M	3	9
18-Apr-89	9.7	-3.9	0.0	M	7.00	285	2.4	8.7	1.1	82	20	M	3	9
19-Apr-89	15.7	-5.2	0.0	M	7.38	318	1.5	11.2	1.1	83	16	M	4	12
20-Apr-89	13.1	-1.7	0.0	M	2.74	97	2.7	6.7	2.2	80	19	M	5	14
21-Apr-89	18.0	0.6	0.0	M	6.94	130	2.8	12.0	1.9	72	29	M	10	18
22-Apr-89	18.0	2.1	0.0	M	6.86	114	5.0	11.5	4.6	62	31	M	16	22
23-Apr-89	14.4	2.1	0.0	M	2.32	124	4.0	8.0	4.6	59	38	M	19	24
24-Apr-89	24.7	3.8	0.0	M	5.87	152	1.9	13.9	4.4	62	34	M	29	31
25-Apr-89	16.4	5.8	0.0	M	3.60	351	1.7	14.2	8.4	83	61	M	36	34
26-Apr-89	11.6	3.9	16.5	M	1.27	359	1.3	9.3	6.6	85	65	M	39	35
27-Apr-89	12.1	2.0	0.8	M	4.67	43	3.3	10.9	5.2	74	55	M	42	36
28-Apr-89	13.7	2.9	0.0	M	4.95	92	3.0	11.9	5.2	70	29	M	46	38
29-Apr-89	4.9	1.2	0.0	M	2.31	26	2.8	7.2	4.9	82	51	M	46	38
30-Apr-89	7.0	1.2	6.6	M	4.34	345	1.8	9.7	3.5	84	60	M	46	38

MEAN AIR	MEAN AIR	TOTL PRE	TOTL PAN	MEAN SOL	MEAN WIND DIRN	MEAN WIND SP	MEAN MAX SOIL	MEAN MIN SOIL	MEAN MAX RH	MEAN MIN RH	MEAN VP	TOTL GDD 4.4	TOTL GDD 1030
9.8	-2.7	58.9	M	4.79	232	2.4	5.5	2.1	79	39	M	46	38

01-May-89	12.4	-0.9	2.0	M	5.25	308	1.1	12.4	3.7	83	31	M	47	39
02-May-89	16.4	-0.7	0.0	M	7.06	330	1.2	14.1	4.3	82	18	M	50	43
03-May-89	20.8	-0.3	0.0	M	7.00	223	1.4	16.0	5.2	81	16	M	56	48
04-May-89	15.5	0.8	0.0	M	3.39	168	2.2	12.0	8.0	81	40	M	60	51
05-May-89	0.9	-6.6	8.1	M	2.60	337	5.0	8.7	2.4	82	59	M	60	51
06-May-89	9.2	-5.2	0.8	M	3.78	338	3.0	6.5	1.7	82	53	M	60	51
07-May-89	18.2	-2.0	0.0	M	5.88	152	1.1	11.6	2.0	83	15	M	64	55
08-May-89	16.2	4.7	8.4	M	3.51	110	1.4	12.4	7.2	80	40	M	70	58
09-May-89	22.0	2.2	4.1	M	8.14	288	1.2	17.5	5.7	83	15	M	77	64
10-May-89	23.1	2.5	0.0	M	8.43	133	2.1	17.9	7.9	79	14	M	86	70
11-May-89	23.5	4.2	0.0	M	8.45	147	2.7	17.5	8.4	56	14	M	95	77
12-May-89	25.6	2.2	0.0	M	8.68	126	1.8	18.3	8.5	71	12	M	104	85
13-May-89	23.9	2.4	0.0	M	7.23	88	2.1	17.3	9.1	79	17	M	113	92
14-May-89	25.7	6.7	0.0	M	8.07	96	1.4	19.0	10.4	81	26	M	125	100
15-May-89	29.1	9.6	0.0	M	6.78	107	1.0	19.3	12.2	78	14	M	140	109
16-May-89	28.6	10.3	0.0	M	7.63	153	2.2	19.2	12.9	78	16	M	155	119
17-May-89	26.9	14.1	0.0	M	5.56	154	3.4	17.4	14.1	74	25	M	171	129
18-May-89	18.3	14.5	4.8	M	1.07	146	2.5	15.9	14.2	83	72	M	183	136
19-May-89	21.1	9.7	0.5	M	2.48	139	2.3	15.7	13.8	92	68	M	194	141
20-May-89	21.3	6.3	11.7	M	8.17	288	1.7	17.5	11.9	83	21	M	203	147
21-May-89	25.7	5.4	0.0	M	8.64	212	1.0	17.9	11.0	82	12	M	214	155
22-May-89	26.8	9.5	0.0	M	6.17	204	1.7	17.5	12.2	82	23	M	228	163
23-May-89	21.9	8.5	9.9	M	6.93	27	1.7	16.8	12.8	91	40	M	239	169
24-May-89	14.0	10.2	0.0	M	0.51	89	3.2	14.4	12.3	82	68	M	246	171
25-May-89	20.2	6.9	19.8	M	7.62	237	2.9	14.6	11.4	77	16	M	256	176
26-May-89	12.4	2.8	2.5	M	5.28	317	2.8	12.1	10.2	79	43	M	259	177
27-May-89	21.0	-0.3	0.0	M	8.93	184	1.7	14.3	8.4	82	16	M	265	183
28-May-89	14.3	11.0	0.0	M	1.31	95	1.6	12.4	11.4	77	42	M	273	186
29-May-89	12.3	6.4	3.3	M	0.72	74	2.6	12.0	10.2	84	76	M	278	187
30-May-89	18.8	5.4	4.8	M	5.79	46	2.4	13.4	9.5	79	43	M	285	191
31-May-89	21.7	9.4	0.3	M	6.30	316	1.5	17.1	11.3	75	28	M	296	197

MEAN AIR	MEAN AIR	TOTL PRE	TOTL PAN	MEAN SOL	MEAN WIND DIRN	MEAN WIND SP	MEAN MAX SOIL	MEAN MIN SOIL	MEAN MAX RH	MEAN MIN RH	MEAN VP	TOTL GDD 4.4	TOTL GDD 1030
19.6	4.8	81.0	M	5.72	182	2.1	15.1	9.2	80	32	M	250	159

GRAND RAPIDS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Jun-89	23.4	10.6	0.0	M	7.56	251	1.5	18.2	12.8	77	25	M	309	204
02-Jun-89	22.4	10.1	0.0	M	6.70	327	2.3	18.0	13.6	77	39	M	321	210
03-Jun-89	21.5	6.4	0.0	M	8.19	298	1.7	18.4	12.6	81	16	M	330	216
04-Jun-89	17.4	5.5	0.0	M	8.72	326	2.2	18.1	12.4	65	22	M	337	220
05-Jun-89	20.6	8.4	0.0	M	4.10	269	1.6	16.5	13.2	79	41	M	347	225
06-Jun-89	25.5	5.1	0.5	M	8.84	134	1.2	19.8	11.9	83	14	M	358	233
07-Jun-89	21.9	8.5	0.3	M	6.22	91	3.8	19.1	14.7	81	54	M	369	239
08-Jun-89	8.9	6.1	2.8	M	1.78	360	2.3	15.7	11.8	81	74	M	372	239
09-Jun-89	20.1	4.7	5.6	M	9.18	348	2.0	18.8	10.6	78	22	M	380	244
10-Jun-89	25.0	4.0	0.0	M	9.17	151	1.2	21.1	11.6	81	16	M	390	251
11-Jun-89	24.8	6.8	0.0	M	6.50	148	2.5	20.3	13.3	79	31	M	401	259
12-Jun-89	16.7	10.9	10.2	M	0.88	143	2.6	16.7	14.5	84	58	M	411	262
13-Jun-89	11.0	8.0	6.6	M	1.39	75	2.9	14.5	12.1	78	74	M	416	263
14-Jun-89	19.1	7.3	6.1	M	9.18	0	2.1	20.0	11.2	76	19	M	425	267
15-Jun-89	23.0	6.9	0.0	M	7.24	41	1.4	20.6	12.7	77	26	M	435	274
16-Jun-89	24.9	6.8	0.0	M	8.18	167	1.2	22.0	13.3	77	26	M	446	281
17-Jun-89	27.8	7.0	0.0	M	8.95	155	1.9	22.9	14.0	79	20	M	459	290
18-Jun-89	27.7	14.3	0.8	M	8.44	313	1.6	25.5	17.5	76	17	M	476	301
19-Jun-89	33.1	10.3	0.0	M	8.73	161	1.9	25.9	16.6	77	12	M	493	311
20-Jun-89	30.3	17.8	0.0	M	7.28	156	5.6	23.9	18.3	64	38	M	513	325
21-Jun-89	26.5	17.1	14.0	M	4.98	143	3.6	23.4	18.4	96	46	M	530	337
22-Jun-89	24.7	16.7	13.7	M	5.81	320	1.7	25.6	19.2	96	55	M	546	348
23-Jun-89	25.7	14.5	0.0	M	7.03	322	1.4	25.5	18.8	93	48	M	562	358
24-Jun-89	27.1	11.6	0.0	M	5.68	132	1.0	24.4	17.6	97	48	M	577	367
25-Jun-89	25.0	14.3	0.0	M	3.01	164	2.0	22.0	18.0	97	69	M	592	377
26-Jun-89	24.1	12.0	9.7	M	5.01	214	1.6	22.9	17.5	98	50	M	606	385
27-Jun-89	23.4	10.0	0.3	M	8.90	319	1.9	24.7	16.0	97	50	M	618	392
28-Jun-89	21.0	9.7	0.0	M	7.92	107	3.7	24.6	16.6	97	55	M	629	397
29-Jun-89	27.3	9.3	0.0	M	6.60	148	3.9	23.5	16.2	97	67	M	643	406
30-Jun-89	24.4	15.8	47.5	M	5.19	326	1.9	23.3	18.7	96	74	M	658	416

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
23.1	9.9	117.9	M	6.58	204	2.2	21.2	14.9	84	40	M	362	219	

01-Jul-89	28.1	13.9	0.0	M	6.91	134	1.5	25.5	17.9	98	62	M	675	427
02-Jul-89	31.5	15.9	0.0	M	7.78	173	1.9	26.8	19.5	97	55	M	694	440
03-Jul-89	29.1	15.6	28.4	M	9.01	322	1.5	27.1	20.4	97	34	M	712	452
04-Jul-89	32.0	13.4	0.0	M	8.92	151	1.4	27.6	19.1	97	40	M	730	464
05-Jul-89	33.3	18.8	0.0	M	8.19	148	2.8	27.7	20.8	95	53	M	752	478
06-Jul-89	27.5	14.9	10.7	M	8.46	342	2.6	26.7	21.3	96	44	M	769	489
07-Jul-89	27.4	11.5	0.0	M	8.94	9	1.5	27.1	18.9	95	35	M	784	499
08-Jul-89	31.1	14.1	0.0	M	8.32	195	1.6	28.1	19.3	96	56	M	802	511
09-Jul-89	31.7	21.1	2.0	M	4.98	330	1.8	27.1	21.9	94	56	M	824	526
10-Jul-89	28.0	18.0	0.0	M	6.70	348	1.6	26.6	20.7	94	50	M	843	540
11-Jul-89	26.5	12.9	0.0	M	6.92	103	3.1	26.7	20.3	89	59	M	858	549
12-Jul-89	26.3	10.2	0.0	M	6.56	21	1.5	25.1	18.7	96	63	M	872	557
13-Jul-89	26.1	13.9	0.0	M	8.31	4	1.6	26.2	19.4	95	41	M	887	567
14-Jul-89	27.2	11.4	0.0	M	8.14	7	1.5	25.8	18.5	98	30	M	902	577
15-Jul-89	28.7	10.9	0.0	M	6.92	198	1.4	25.4	18.3	98	40	M	917	587
16-Jul-89	29.3	13.2	5.6	M	7.41	353	1.1	25.5	18.4	98	35	M	934	598
17-Jul-89	29.6	13.5	0.0	M	5.48	102	1.1	24.4	18.9	97	39	M	951	609
18-Jul-89	27.1	16.0	0.0	M	5.08	43	1.8	23.7	19.2	97	57	M	968	621
19-Jul-89	28.8	13.3	5.8	M	7.85	357	1.4	25.5	18.3	97	40	M	985	632
20-Jul-89	29.6	13.8	0.0	M	7.03	344	1.4	25.7	18.9	96	45	M	1002	644
21-Jul-89	31.5	14.8	0.0	M	7.26	79	1.0	26.8	19.7	96	42	M	1021	656
22-Jul-89	29.9	15.8	0.0	M	6.06	129	1.1	26.3	20.6	96	51	M	1039	669
23-Jul-89	30.3	15.7	0.0	M	7.05	148	1.5	26.7	20.4	96	48	M	1058	682
24-Jul-89	29.4	17.5	0.0	M	6.22	155	1.6	26.3	21.1	96	59	M	1077	695
25-Jul-89	31.8	18.2	1.3	M	7.68	164	1.7	27.7	21.1	95	50	M	1098	709
26-Jul-89	33.1	19.9	0.0	M	7.49	212	1.9	28.4	22.1	94	48	M	1120	724
27-Jul-89	21.2	14.5	1.8	M	5.08	345	2.7	24.3	20.0	90	64	M	1133	732
28-Jul-89	22.1	13.6	0.0	M	4.20	103	2.7	21.7	18.6	93	63	M	1146	740
29-Jul-89	17.6	13.3	9.7	M	1.27	108	3.0	19.5	17.8	97	91	M	1157	745
30-Jul-89	20.0	13.7	3.8	M	1.95	139	1.6	19.7	17.1	97	91	M	1170	752
31-Jul-89	28.4	14.5	0.0	M	5.81	171	1.1	24.3	18.0	96	57	M	1187	764

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
28.2	14.8	69.1	M	6.71	175	1.7	25.7	19.5	96	52	M	529	348	

GRAND RAPIDS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Aug-89	32.7	18.0	0.0	M	7.03	178	1.8	26.9	19.7	95	59	M	1208	778
02-Aug-89	30.5	19.0	0.0	M	6.67	159	2.4	26.6	21.1	95	57	M	1228	792
03-Aug-89	33.3	21.2	0.0	M	6.05	199	2.2	27.9	22.4	89	60	M	1251	808
04-Aug-89	30.6	16.6	20.6	M	6.56	206	1.9	26.2	20.3	95	49	M	1270	821
05-Aug-89	19.8	9.5	0.0	M	2.97	313	2.8	22.2	17.7	95	80	M	1280	826
06-Aug-89	20.7	7.4	0.8	M	6.11	337	2.3	20.0	15.6	97	50	M	1290	831
07-Aug-89	23.9	5.6	0.0	M	7.20	M	M	21.7	14.4	M	M	M	1300	838
08-Aug-89	26.1	13.3	0.0	M	6.69	M	M	23.3	17.2	M	M	M	1315	848
09-Aug-89	28.9	11.1	0.0	M	7.24	M	M	24.4	17.2	M	M	M	1331	858
10-Aug-89	30.0	12.0	0.0	M	5.60	M	M	25.0	17.8	M	M	M	1348	869
11-Aug-89	29.4	12.2	0.0	M	6.24	M	M	24.4	18.9	M	M	M	1364	880
12-Aug-89	28.1	15.9	0.0	M	5.93	156	1.8	24.5	19.4	94	55	M	1381	892
13-Aug-89	28.3	16.7	0.0	M	5.28	53	1.7	24.8	20.0	95	51	M	1400	904
14-Aug-89	18.8	13.0	1.3	M	2.43	4	1.8	21.2	18.3	96	81	M	1411	910
15-Aug-89	23.4	10.5	0.0	M	6.53	352	1.2	22.3	16.9	96	42	M	1423	917
16-Aug-89	27.2	8.4	0.0	M	6.41	90	1.0	22.7	16.0	97	38	M	1437	926
17-Aug-89	26.6	11.8	0.0	M	6.45	149	2.0	23.1	17.2	96	46	M	1452	935
18-Aug-89	28.0	13.4	0.0	M	6.52	158	2.7	23.1	17.7	95	47	M	1468	946
19-Aug-89	21.6	16.5	0.0	M	1.21	157	2.1	20.2	18.7	95	76	M	1482	955
20-Aug-89	17.4	9.1	3.6	M	2.43	313	1.7	19.1	16.2	96	78	M	1491	958
21-Aug-89	25.6	6.7	0.0	M	5.74	125	2.2	20.8	14.3	97	57	M	1503	966
22-Aug-89	25.0	14.1	9.9	M	4.99	11	1.4	22.3	17.2	95	66	M	1518	976
23-Aug-89	25.2	13.1	0.0	M	6.09	111	2.5	22.3	17.0	96	62	M	1533	985
24-Aug-89	25.2	11.4	0.0	M	6.59	134	2.7	21.8	16.5	96	60	M	1547	993
25-Aug-89	24.5	12.6	0.0	M	4.94	154	2.7	21.2	17.0	96	62	M	1561	1002
26-Aug-89	23.7	16.3	0.0	M	2.02	144	1.4	20.4	18.4	94	83	M	1576	1012
27-Aug-89	23.5	10.9	23.9	M	6.13	325	1.1	21.1	16.3	95	40	M	1589	1019
28-Aug-89	24.6	12.0	5.3	M	4.19	106	2.1	21.1	16.5	95	77	M	1603	1027
29-Aug-89	17.7	12.4	20.6	M	3.27	277	2.4	18.9	16.7	94	74	M	1614	1032
30-Aug-89	19.9	9.3	20.6	M	3.26	103	1.6	18.2	15.2	96	56	M	1624	1037
31-Aug-89	20.9	13.2	29.5	M	2.23	74	2.4	18.3	15.8	95	84	M	1636	1044

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
25.2	12.7	135.9	M	5.19	M	M	M	22.5	17.5	M	M	M	449	280

01-Sep-89	22.8	10.0	0.3	M	5.57	344	1.5	20.2	16.4	95	54	M	1648	1051
02-Sep-89	24.3	7.3	0.0	M	6.46	94	1.0	20.3	15.2	96	40	M	1660	1058
03-Sep-89	17.6	11.6	0.0	M	0.70	151	2.9	17.5	16.1	95	83	M	1670	1062
04-Sep-89	21.7	13.0	57.9	M	4.30	205	2.1	18.7	15.4	95	59	M	1683	1070
05-Sep-89	27.3	9.3	5.1	M	6.26	164	1.5	20.3	14.7	96	45	M	1696	1078
06-Sep-89	25.1	13.0	0.0	M	3.45	159	2.6	20.0	16.6	95	80	M	1711	1087
07-Sep-89	21.8	13.9	0.0	M	4.24	258	1.7	19.5	17.5	93	58	M	1724	1095
08-Sep-89	20.9	9.5	0.0	M	5.57	293	1.6	19.2	15.9	96	54	M	1735	1101
09-Sep-89	17.6	7.8	0.0	M	3.79	304	1.5	17.4	15.0	96	60	M	1743	1104
10-Sep-89	15.5	3.2	0.0	M	3.72	26	0.9	16.2	12.8	97	49	M	1748	1107
11-Sep-89	11.3	4.6	2.8	M	2.12	222	1.6	14.3	12.5	97	58	M	1752	1108
12-Sep-89	16.0	3.2	4.3	M	4.59	322	1.8	15.1	11.9	97	54	M	1757	1111
13-Sep-89	17.7	1.3	0.0	M	5.66	203	1.5	15.4	10.5	97	46	M	1762	1115
14-Sep-89	20.9	4.3	0.0	M	5.86	172	1.7	16.2	11.3	97	41	M	1770	1120
15-Sep-89	22.2	6.2	0.0	M	5.82	160	2.1	16.6	12.1	96	39	M	1780	1126
16-Sep-89	25.2	8.2	0.0	M	5.46	154	1.2	18.0	12.8	96	56	M	1792	1134
17-Sep-89	27.0	10.8	0.0	M	5.24	155	2.7	18.7	14.0	95	59	M	1807	1143
18-Sep-89	27.3	16.4	0.0	M	5.20	155	3.7	19.4	16.1	93	51	M	1824	1155
19-Sep-89	21.4	11.0	0.0	M	0.73	244	1.3	17.7	15.9	95	70	M	1836	1161
20-Sep-89	19.3	7.4	5.3	M	1.38	130	1.2	16.5	13.8	95	90	M	1845	1166
21-Sep-89	19.9	12.3	50.3	M	1.25	43	1.9	17.5	15.9	93	87	M	1857	1172
22-Sep-89	12.3	1.6	13.0	M	4.66	334	4.2	16.2	10.5	94	37	M	1859	1173
23-Sep-89	11.3	-0.1	0.0	M	5.44	330	1.9	13.0	9.2	94	41	M	1860	1173
24-Sep-89	17.0	1.6	0.0	M	4.86	178	2.3	12.9	9.2	92	25	M	1865	1177
25-Sep-89	12.1	0.0	0.0	M	4.26	328	2.3	12.7	9.9	96	45	M	1867	1178
26-Sep-89	15.0	-2.2	0.0	M	5.01	152	1.0	12.7	7.8	97	42	M	1869	1181
27-Sep-89	21.7	2.8	0.0	M	4.44	164	2.5	13.5	9.1	92	40	M	1876	1186
28-Sep-89	25.1	9.1	0.0	M	4.64	300	2.0	15.4	11.3	85	36	M	1889	1194
29-Sep-89	19.2	2.1	0.0	M	4.90	229	1.3	14.3	10.2	96	33	M	1895	1199
30-Sep-89	26.8	7.1	0.0	M	4.37	166	2.4	15.4	10.9	87	31	M	1908	1207

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
20.1	6.9	138.9	M	4.33	205	1.9	16.7	13.0	95	52	M	M	272	163

GRAND RAPIDS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Oct-89	24.7	3.7	0.0	M	2.35	232	2.9	15.9	12.7	95	48	M	1918	1214
02-Oct-89	3.7	-0.4	16.0	M	1.61	336	3.4	12.6	8.3	96	64	M	1918	1214
03-Oct-89	6.7	-2.5	0.0	M	4.63	320	1.9	10.0	7.1	98	48	M	1918	1214
04-Oct-89	15.3	-3.9	0.0	M	4.39	196	1.0	10.3	5.6	98	23	M	1919	1217
05-Oct-89	7.8	2.4	4.6	M	0.95	237	1.8	9.5	8.3	96	88	M	1919	1217
06-Oct-89	5.9	2.6	2.5	M	1.44	330	3.2	8.9	7.2	88	59	M	1919	1217
07-Oct-89	8.8	-3.4	0.0	M	4.35	321	1.6	9.3	6.0	98	44	M	1919	1217
08-Oct-89	10.6	-5.5	0.0	M	4.04	136	0.8	8.7	4.4	98	37	M	1919	1217
09-Oct-89	9.2	-0.7	0.0	M	0.86	203	1.2	7.6	5.7	96	67	M	1919	1217
10-Oct-89	15.8	6.2	6.9	M	3.57	197	1.8	11.0	7.3	95	41	M	1926	1220
11-Oct-89	18.9	6.7	0.0	M	2.32	216	2.0	10.7	8.2	80	44	M	1934	1225
12-Oct-89	19.9	2.2	0.0	M	4.14	249	1.9	11.2	7.6	95	26	M	1941	1229
13-Oct-89	19.5	0.4	0.0	M	2.77	145	1.5	10.7	7.0	96	39	M	1947	1234
14-Oct-89	19.2	1.1	0.0	M	3.71	17	1.0	11.6	7.6	96	28	M	1952	1239
15-Oct-89	13.2	1.6	0.0	M	2.35	14	3.0	10.7	8.6	93	63	M	1955	1240
16-Oct-89	2.0	-1.3	0.0	M	1.13	351	2.7	8.7	6.5	92	75	M	1955	1240
17-Oct-89	5.6	-4.6	0.0	M	2.35	346	1.6	7.0	4.9	97	54	M	1955	1240
18-Oct-89	5.8	-5.7	0.0	M	2.52	349	1.2	6.3	3.6	98	49	M	1955	1240
19-Oct-89	9.5	-7.3	0.0	M	3.74	238	0.8	6.2	2.4	98	37	M	1955	1240
20-Oct-89	14.8	-4.8	0.0	M	3.33	337	1.2	7.1	2.8	96	20	M	1956	1243
21-Oct-89	16.5	-4.5	0.0	M	3.65	147	0.9	7.6	3.0	97	28	M	1957	1246
22-Oct-89	18.9	1.9	0.0	M	2.88	156	1.4	8.5	4.5	95	38	M	1963	1250
23-Oct-89	23.7	-0.4	0.0	M	3.19	285	0.8	9.5	4.9	96	24	M	1970	1257
24-Oct-89	24.0	0.6	0.0	M	3.31	150	1.5	10.1	5.6	96	22	M	1978	1264
25-Oct-89	25.6	9.0	0.0	M	2.89	157	2.4	12.3	8.0	94	52	M	1991	1272
26-Oct-89	25.4	15.9	0.0	M	2.52	154	3.7	13.9	11.4	90	50	M	2007	1283
27-Oct-89	18.3	5.6	0.0	M	3.12	174	3.4	13.0	10.0	79	49	M	2015	1287
28-Oct-89	19.7	-0.4	0.0	M	3.14	112	0.9	11.0	7.6	97	25	M	2020	1292
29-Oct-89	8.6	0.4	11.7	M	0.72	344	2.5	9.2	7.5	95	68	M	2020	1292
30-Oct-89	5.7	-1.8	0.5	M	2.72	351	1.8	7.5	5.7	95	51	M	2020	1292
31-Oct-89	1.9	-0.9	0.0	M	0.81	344	2.1	6.0	4.8	86	69	M	2020	1292
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	13.7	0.4	42.2	M	2.76	230	1.9	9.8	6.6	94	46	M	112	85

LAMBERTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	13.3	-0.4	3.0	M	3.66	230	4.4	7.5	0.3	86	63	0.70	0	2
02-Apr-89	14.6	0.2	0.8	M	4.00	179	4.6	7.8	0.6	86	44	0.72	0	4
03-Apr-89	13.8	2.3	0.0	M	4.59	282	5.1	9.2	3.1	85	36	0.71	0	6
04-Apr-89	7.6	-0.2	0.0	M	2.00	340	6.6	5.0	1.5	86	59	0.58	0	6
05-Apr-89	11.7	-2.0	0.0	M	5.36	297	2.8	8.9	0.4	86	46	0.59	0	7
06-Apr-89	10.1	-1.6	0.0	M	5.91	343	3.3	9.0	0.9	86	43	0.55	0	7
07-Apr-89	5.1	-3.0	0.0	M	1.72	174	4.0	3.3	0.7	86	64	0.53	0	7
08-Apr-89	-0.7	-6.8	3.8	M	5.56	341	6.0	2.1	0.4	86	68	0.35	0	7
09-Apr-89	1.2	-9.2	0.5	M	6.43	334	6.6	3.2	0.2	78	57	0.31	0	7
10-Apr-89	4.4	-7.3	0.0	M	6.52	284	3.9	4.3	0.0	83	43	0.36	0	7
11-Apr-89	4.2	-2.8	0.0	M	4.80	322	4.5	5.0	0.3	85	54	0.44	0	7
12-Apr-89	8.0	-5.1	0.0	M	4.91	313	2.4	6.4	0.2	85	56	0.48	0	7
13-Apr-89	19.2	1.1	0.0	M	4.63	230	6.8	8.7	1.1	78	18	0.62	0	11
14-Apr-89	13.7	-0.0	0.0	M	5.06	325	3.9	10.1	3.0	84	37	0.59	0	13
15-Apr-89	19.0	-4.6	0.0	M	6.51	214	6.2	11.6	2.2	85	16	0.45	0	18
16-Apr-89	20.3	1.0	0.0	M	4.98	346	6.4	14.0	7.3	84	21	0.63	1	23
17-Apr-89	7.3	-4.0	0.0	M	6.49	360	4.9	12.5	5.3	85	20	0.29	1	23
18-Apr-89	14.1	-0.4	0.0	M	5.98	316	3.4	13.3	6.0	83	23	0.49	1	25
19-Apr-89	22.7	-2.1	0.0	M	6.96	226	4.6	14.8	5.2	72	14	0.44	1	31
20-Apr-89	27.2	4.7	0.0	M	5.55	132	3.4	17.5	8.0	66	14	0.56	7	40
21-Apr-89	26.4	3.6	0.0	M	6.40	119	5.3	17.4	9.2	74	18	0.75	12	48
22-Apr-89	17.9	9.7	11.7	M	2.71	132	9.2	14.6	11.6	83	49	1.23	16	52
23-Apr-89	20.7	9.4	0.0	M	5.27	129	7.5	16.4	10.3	83	70	1.34	21	57
24-Apr-89	19.8	10.2	0.0	M	4.52	132	4.7	16.6	10.9	83	67	1.21	26	62
25-Apr-89	23.9	11.4	1.3	M	5.54	17	4.2	19.8	12.1	83	54	1.39	34	70
26-Apr-89	20.3	10.7	8.9	M	3.23	76	5.0	17.6	12.1	84	72	1.27	39	76
27-Apr-89	16.1	9.4	7.1	M	1.98	79	6.8	14.0	11.4	84	75	1.17	42	79
28-Apr-89	10.7	4.0	14.7	M	0.72	88	6.5	12.1	8.1	84	82	0.87	42	79
29-Apr-89	8.1	0.1	5.8	M	2.91	4	4.9	10.4	5.8	85	75	0.66	42	79
30-Apr-89	9.8	-1.2	0.0	M	4.32	340	2.1	11.2	4.0	85	58	0.63	42	79

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
13.7	0.9	57.7	M	4.64	223	5.0	10.8	4.7	83	47	0.70	42	79	

01-May-89	11.5	0.3	0.0	M	4.35	334	2.2	13.2	4.7	85	41	0.60	42	80
02-May-89	15.7	0.0	0.0	M	6.27	310	2.5	16.9	5.1	85	36	0.64	42	82
03-May-89	20.1	1.8	0.0	M	7.55	212	4.9	17.8	7.2	80	19	0.59	43	87
04-May-89	17.2	4.1	0.5	M	3.04	319	4.7	15.4	10.2	83	61	1.04	43	91
05-May-89	6.4	-1.5	4.8	M	6.57	340	8.0	11.6	6.0	76	28	0.39	43	91
06-May-89	13.6	-2.0	0.0	M	6.93	344	5.6	14.6	4.5	55	23	0.37	43	93
07-May-89	22.8	-2.7	0.0	M	7.29	214	2.0	18.7	5.3	73	13	0.35	43	99
08-May-89	23.1	7.0	1.0	7.6	3.65	91	6.2	17.8	11.5	84	21	1.02	48	106
09-May-89	22.0	3.1	1.3	3.8	7.53	353	2.3	21.0	8.5	84	17	0.70	51	112
10-May-89	25.9	4.7	0.0	5.8	7.59	154	3.0	23.0	10.7	74	13	0.64	56	120
11-May-89	25.3	10.8	0.0	7.6	7.57	188	4.9	21.9	13.2	42	14	0.49	64	128
12-May-89	26.4	4.3	0.0	11.4	7.99	120	2.8	23.2	12.1	59	12	0.43	70	136
13-May-89	24.8	2.2	0.0	11.4	7.71	93	3.3	22.5	12.4	57	17	0.53	73	143
14-May-89	27.1	6.5	0.0	7.6	6.40	89	1.8	23.6	13.6	73	20	0.82	80	152
15-May-89	28.4	8.5	0.0	7.4	6.20	92	2.1	23.6	14.5	65	20	0.84	88	161
16-May-89	28.8	11.5	0.0	4.8	5.60	185	3.2	23.2	15.6	67	15	0.80	99	171
17-May-89	28.7	16.1	0.0	6.9	5.16	191	6.2	22.9	17.2	82	21	1.07	111	184
18-May-89	17.5	15.8	3.8	5.1	0.84	133	3.4	18.7	16.2	82	79	1.52	118	190
19-May-89	25.1	9.0	1.0	M	4.49	328	3.0	22.3	15.1	86	53	1.46	125	198
20-May-89	25.2	4.9	0.0	4.8	8.30	278	4.2	23.0	12.2	83	13	0.59	130	205
21-May-89	29.4	7.3	0.0	11.4	5.64	208	4.7	22.1	13.4	65	11	0.67	138	215
22-May-89	28.8	12.6	0.0	9.1	7.03	188	5.0	24.2	15.1	70	27	1.14	149	226
23-May-89	31.9	14.0	0.0	10.9	5.89	181	3.0	25.3	17.0	77	29	1.52	162	238
24-May-89	30.1	10.7	0.0	8.1	3.22	237	6.4	22.9	18.1	74	52	1.64	172	248
25-May-89	24.4	6.0	0.0	7.9	6.72	264	5.7	21.5	14.6	77	13	0.60	177	255
26-May-89	16.2	6.2	0.0	12.4	4.73	327	4.9	18.6	14.4	69	33	0.65	178	258
27-May-89	24.8	2.1	0.0	7.4	8.30	205	3.6	22.9	11.7	68	15	0.50	182	266
28-May-89	24.8	14.4	0.0	14.2	5.59	186	6.9	22.4	16.0	78	30	1.10	191	275
29-May-89	19.0	9.2	0.0	7.1	1.43	91	6.4	19.0	16.4	83	76	1.42	195	280
30-May-89	13.8	8.8	1.5	M	0.86	29	3.6	16.5	13.9	86	80	1.09	197	282
31-May-89	19.8	10.8	0.3	3.8	3.50	344	2.9	19.1	13.3	82	49	1.14	202	287

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
22.5	6.7	14.2	M	5.61	214	4.2	20.3	12.3	74	31	0.85	160	208	

LAMBERTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	25.2	7.3	0.0	3.3	7.58	289	3.3	22.9	13.1	82	22	0.90	208	295
02-Jun-89	28.0	9.6	0.0	9.1	5.52	298	3.7	23.4	14.6	76	29	1.08	217	304
03-Jun-89	24.5	10.1	0.0	8.1	7.02	342	3.3	23.6	15.2	83	21	0.88	224	311
04-Jun-89	25.4	7.8	0.0	7.6	8.45	345	2.9	25.3	14.8	56	13	0.52	231	319
05-Jun-89	29.6	12.1	0.0	10.9	5.36	254	4.3	23.4	16.5	38	12	0.62	242	330
06-Jun-89	33.8	13.9	0.0	11.4	7.83	223	3.1	28.1	17.3	54	11	0.88	256	342
07-Jun-89	30.3	13.1	0.0	10.2	4.95	275	6.6	24.6	20.5	70	31	1.30	267	353
08-Jun-89	15.3	10.2	0.0	9.4	2.54	347	4.9	20.8	16.9	76	63	0.99	270	356
09-Jun-89	22.0	8.6	0.0	4.8	8.35	29	3.6	24.1	15.4	76	38	0.95	275	362
10-Jun-89	26.8	7.9	0.0	7.6	8.56	167	3.3	25.7	15.7	77	16	0.78	283	370
11-Jun-89	26.5	15.8	0.0	11.2	4.99	173	4.0	23.8	18.9	77	42	1.48	294	381
12-Jun-89	25.1	8.8	1.5	3.8	5.94	293	5.4	23.9	18.5	82	43	1.42	301	389
13-Jun-89	19.0	6.8	0.0	8.6	4.51	293	4.5	20.0	15.5	83	49	1.01	304	393
14-Jun-89	17.6	6.1	1.5	1.3	2.62	19	4.8	17.3	13.9	83	46	0.96	306	397
15-Jun-89	24.7	4.1	0.0	2.8	8.51	346	2.6	23.3	11.8	82	16	0.67	310	405
16-Jun-89	28.0	6.7	0.0	8.9	8.57	161	3.7	25.3	14.4	68	13	0.66	317	414
17-Jun-89	31.6	11.6	0.0	10.4	4.94	209	4.3	23.8	17.3	81	18	1.25	329	424
18-Jun-89 *	32.8	16.7	5.1	M	M	M	M	M	M	M	M	M	344	438
19-Jun-89	33.9	13.1	0.0	8.9	8.40	187	3.8	27.9	18.0	79	15	1.15	357	449
20-Jun-89	35.9	24.0	0.0	15.0	7.72	186	8.6	28.5	21.6	63	17	1.32	377	466
21-Jun-89	30.8	17.5	6.1	10.2	3.67	223	5.3	24.8	20.6	79	54	1.99	391	480
22-Jun-89	21.8	14.1	0.3	5.8	2.50	306	1.9	21.7	18.3	77	50	1.37	399	488
23-Jun-89	28.5	12.8	0.0	3.3	6.89	269	2.0	26.9	16.8	82	26	1.23	410	499
24-Jun-89	27.2	12.7	0.0	7.4	2.98	182	2.5	22.1	17.9	82	36	1.48	420	509
25-Jun-89	27.8	18.0	2.0	0.3	6.93	234	3.1	27.6	18.5	82	44	1.78	433	521
26-Jun-89	26.0	16.0	37.1	2.5	5.34	287	3.0	24.7	19.4	82	55	1.72	444	532
27-Jun-89	28.6	11.6	0.0	4.1	8.12	229	1.6	26.7	16.4	81	22	1.30	454	543
28-Jun-89	31.3	17.0	0.0	7.1	7.78	189	3.4	28.6	19.4	80	41	1.89	468	556
29-Jun-89	31.5	21.4	0.0	9.4	7.23	197	6.4	28.2	21.6	72	47	2.01	484	572
30-Jun-89	32.5	21.1	0.0	11.9	7.22	229	5.0	28.9	22.1	67	37	1.88	501	587
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	27.4	12.5	53.6	M	M	M	M	M	M	M	M	M	299	300

01-Jul-89	32.2	18.6	0.0	10.7	7.62	207	2.9	29.7	22.3	74	33	1.80	517	602
02-Jul-89	32.7	20.1	0.0	12.7	7.90	201	4.1	29.6	22.8	78	42	2.07	533	617
03-Jul-89	34.7	19.9	0.0	9.4	8.35	32	2.2	30.8	23.4	78	15	1.66	550	632
04-Jul-89	33.5	19.8	0.0	11.4	7.72	201	3.2	30.4	23.2	71	26	1.96	567	646
05-Jul-89	35.5	23.1	0.0	10.2	8.13	202	5.8	30.8	24.0	65	35	2.00	586	663
06-Jul-89	34.8	21.9	0.0	15.2	7.27	353	4.3	30.8	24.4	65	26	1.93	605	679
07-Jul-89	31.7	16.6	0.0	10.9	7.99	84	2.8	30.7	22.8	78	32	1.53	619	692
08-Jul-89	37.0	18.5	0.0	9.7	7.67	150	4.4	30.3	23.2	81	20	1.84	637	707
09-Jul-89	39.0	19.1	0.0	10.7	7.80	226	3.7	30.8	23.4	82	25	2.09	656	721
10-Jul-89	34.8	20.4	0.0	13.0	7.47	87	3.5	31.6	24.7	81	21	1.89	673	736
11-Jul-89	27.6	20.4	15.2	2.3	3.27	164	1.5	27.1	23.3	81	63	2.18	687	750
12-Jul-89	29.5	20.6	0.0	2.3	4.52	37	1.8	27.7	22.8	81	57	2.16	702	765
13-Jul-89	27.2	16.6	3.6	1.0	7.09	36	2.6	27.3	21.5	81	54	1.92	714	777
14-Jul-89	24.2	15.1	0.0	6.6	3.85	129	1.5	23.3	19.9	82	50	1.55	724	787
15-Jul-89	28.5	12.9	0.0	3.8	6.56	233	1.8	26.4	18.4	82	39	1.50	735	798
16-Jul-89	28.6	13.1	0.0	5.6	6.80	220	2.0	26.6	18.9	82	39	1.56	745	809
17-Jul-89	25.4	13.9	0.0	7.1	3.13	173	2.8	23.0	19.0	82	57	1.63	755	818
18-Jul-89	22.6	16.0	56.6	M	2.60	355	4.8	20.5	18.4	81	64	1.67	764	827
19-Jul-89	27.2	14.8	12.4	M	7.34	8	2.8	24.3	17.3	82	48	1.74	775	838
20-Jul-89	28.5	14.8	0.0	5.1	6.73	341	2.4	24.7	18.6	82	53	1.86	787	850
21-Jul-89	29.0	16.4	0.0	6.6	6.97	71	1.7	25.4	19.5	82	48	1.86	800	863
22-Jul-89	28.2	13.1	0.0	5.8	7.50	113	2.0	24.9	18.9	82	51	1.76	810	873
23-Jul-89	28.6	16.4	0.0	6.1	5.88	151	2.1	24.9	20.0	81	53	1.95	823	886
24-Jul-89	29.1	17.2	0.8	4.8	7.11	189	2.9	25.1	20.3	81	50	2.01	836	899
25-Jul-89	30.5	19.9	0.0	6.6	7.25	194	3.1	26.5	21.2	81	54	2.21	851	914
26-Jul-89	31.1	20.4	0.0	7.6	7.37	214	3.8	27.4	22.3	81	56	2.32	867	929
27-Jul-89	30.1	18.3	0.0	6.9	7.40	359	3.0	28.5	23.1	77	41	1.97	881	943
28-Jul-89	30.2	15.3	0.0	8.4	6.94	130	3.7	28.1	22.1	82	57	1.97	894	956
29-Jul-89	30.3	20.0	13.7	M	6.23	114	2.7	29.7	22.9	82	64	2.29	909	971
30-Jul-89	29.0	19.6	0.0	4.6	4.48	117	2.0	27.9	23.2	83	65	2.16	923	985
31-Jul-89	32.4	17.7	0.0	10.7	6.58	173	1.6	29.3	21.9	83	50	2.11	938	999
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.5	17.8	102.4	M	6.57	170	2.9	27.6	21.5	79	45	1.91	437	412



LAMBERTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	31.1	19.7	0.0	6.1	6.93	204	3.4	29.8	22.6	79	55	2.23	954	1014
02-Aug-89	30.6	18.5	0.0	6.9	7.02	201	5.3	29.4	22.6	80	62	2.32	968	1028
03-Aug-89	30.9	23.4	0.0	9.1	5.43	218	3.8	29.5	24.6	80	65	2.57	986	1045
04-Aug-89	36.4	19.9	0.0	5.8	6.66	82	2.3	33.6	24.1	80	34	2.28	1004	1060
05-Aug-89	27.2	15.4	0.0	6.6	6.70	328	3.8	31.3	23.4	80	41	1.54	1015	1071
06-Aug-89	20.8	9.9	0.0	7.6	6.83	3	4.4	29.1	21.8	82	41	1.08	1020	1077
07-Aug-89	25.8	9.4	0.0	5.8	7.23	323	3.4	30.1	17.3	80	38	1.12	1028	1084
08-Aug-89	28.7	9.6	0.0	7.4	6.95	295	2.0	30.8	19.3	81	21	1.13	1037	1094
09-Aug-89	29.9	11.9	0.0	6.6	7.19	223	3.0	30.6	20.8	80	23	1.25	1048	1105
10-Aug-89	30.3	14.6	0.0	9.1	5.60	226	4.0	29.1	21.5	75	27	1.37	1060	1117
11-Aug-89	29.3	18.6	0.0	8.4	6.34	191	3.2	30.4	22.3	69	34	1.53	1074	1131
12-Aug-89	28.6	18.1	0.0	9.1	5.74	222	3.9	29.9	22.6	72	50	1.74	1088	1144
13-Aug-89	32.3	15.9	0.0	7.4	6.55	265	2.3	32.4	22.5	82	36	1.81	1102	1157
14-Aug-89	25.0	15.5	36.8	M	3.53	339	2.0	25.9	20.4	81	63	1.69	1112	1168
15-Aug-89	26.6	13.4	0.5	2.5	6.22	3	1.1	27.5	17.9	80	44	1.55	1122	1178
16-Aug-89	26.3	10.8	0.0	3.8	6.94	126	1.5	29.9	17.4	81	42	1.41	1131	1186
17-Aug-89	27.8	12.5	0.0	6.6	6.69	159	3.2	30.4	19.0	81	44	1.55	1141	1196
18-Aug-89	27.4	16.1	0.0	7.6	6.54	188	4.6	29.3	20.1	77	40	1.52	1152	1208
19-Aug-89	26.8	15.0	7.1	0.8	4.05	231	3.6	26.4	21.0	81	61	1.89	1163	1219
20-Aug-89	27.5	13.3	0.0	3.3	5.56	297	1.9	28.7	17.8	81	52	1.66	1174	1229
21-Aug-89	29.8	17.1	0.0	4.8	5.49	169	3.0	30.5	20.3	81	58	1.99	1187	1243
22-Aug-89	31.4	16.8	0.0	4.8	6.46	102	2.1	33.4	21.3	81	52	2.12	1201	1256
23-Aug-89	28.5	15.4	0.0	5.3	4.70	122	2.9	30.4	22.2	80	64	2.02	1213	1268
24-Aug-89	26.4	15.2	0.0	4.6	4.28	142	4.1	29.3	23.2	81	57	1.84	1224	1279
25-Aug-89	22.8	15.1	0.0	5.8	1.93	145	3.2	23.7	20.6	81	74	1.81	1233	1288
26-Aug-89	27.9	18.3	0.0	M	4.41	139	2.3	27.0	20.9	80	63	2.08	1246	1301
27-Aug-89	26.3	17.3	0.0	4.1	3.60	123	2.3	25.4	19.8	82	39	1.97	1258	1313
28-Aug-89	27.5	18.3	34.5	M	4.75	226	2.6	27.0	20.4	81	63	2.02	1271	1326
29-Aug-89	24.8	12.2	0.0	7.6	5.50	305	2.2	25.6	17.9	81	41	1.38	1279	1334
30-Aug-89	26.6	15.1	1.3	1.8	4.45	150	3.8	25.6	18.8	80	64	1.79	1290	1345
31-Aug-89	30.0	18.6	0.0	3.8	3.21	123	3.4	27.9	21.3	80	67	2.31	1304	1359

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
28.1	15.5	80.3	M	5.60	189	3.0	29.0	20.8	80	49	1.76	366	360

01-Sep-89	23.6	13.6	7.9	M	4.43	350	2.5	24.8	18.9	81	52	1.58	1313	1368
02-Sep-89	25.8	10.8	0.0	3.8	6.09	166	1.9	27.0	16.0	81	49	1.48	1321	1376
03-Sep-89	26.3	16.0	5.8	0.8	4.37	176	4.7	24.6	18.3	80	66	1.80	1332	1387
04-Sep-89	25.5	13.1	26.7	M	6.19	286	3.6	24.9	18.2	81	37	1.50	1342	1397
05-Sep-89	28.5	12.3	0.0	3.8	5.79	197	3.4	26.2	15.6	81	31	1.44	1352	1407
06-Sep-89	25.5	19.0	0.0	M	2.09	182	2.9	24.6	19.6	81	74	2.14	1364	1419
07-Sep-89	22.8	13.5	0.0	3.3	2.64	343	2.0	23.6	18.7	M	68	1.60	1373	1427
08-Sep-89	19.4	13.6	3.8	M	2.47	336	2.5	20.5	16.8	81	65	1.35	1379	1434
09-Sep-89	17.3	7.9	1.0	1.8	3.10	321	3.0	19.5	14.0	82	56	1.12	1382	1438
10-Sep-89	17.7	3.6	0.0	2.8	3.21	110	2.0	19.4	11.2	83	42	0.93	1382	1441
11-Sep-89	14.8	3.8	0.0	3.8	5.66	313	3.5	19.9	12.7	82	38	0.78	1382	1444
12-Sep-89	14.1	3.4	0.0	3.0	2.10	318	2.0	15.9	10.4	83	62	0.83	1382	1446
13-Sep-89	19.9	2.3	0.0	2.3	5.82	242	1.5	22.0	9.7	89	M	0.81	1383	1451
14-Sep-89	21.7	3.6	0.0	5.8	5.85	228	2.2	22.6	11.1	83	29	0.82	1386	1457
15-Sep-89	22.9	5.1	0.0	5.6	5.72	203	3.6	22.3	12.0	83	38	0.97	1390	1463
16-Sep-89	28.5	10.9	0.0	6.9	5.51	211	4.4	24.3	14.1	80	38	1.33	1400	1473
17-Sep-89	30.7	13.9	0.0	6.6	5.45	192	4.5	26.0	16.2	81	37	1.61	1412	1485
18-Sep-89	29.8	18.1	0.0	6.6	5.37	194	6.6	25.9	18.6	79	33	1.59	1426	1499
19-Sep-89	21.0	18.6	0.0	7.6	0.81	208	3.6	21.4	19.1	81	64	1.73	1436	1509
20-Sep-89	22.9	17.3	8.9	M	1.36	172	2.5	20.4	17.4	80	69	1.73	1446	1519
21-Sep-89	27.4	12.4	8.4	M	4.50	229	3.8	22.6	15.5	81	53	1.62	1456	1529
22-Sep-89	13.9	1.2	0.0	3.8	4.22	351	5.7	17.9	10.4	80	43	0.79	1456	1530
23-Sep-89	13.4	-1.6	0.0	3.8	5.39	320	2.3	18.1	7.1	83	30	0.52	1456	1532
24-Sep-89	19.6	2.7	0.0	3.8	5.15	211	5.3	17.8	8.1	67	18	0.50	1457	1537
25-Sep-89	17.8	3.2	0.0	6.9	5.15	328	3.7	19.6	10.5	69	21	0.66	1458	1541
26-Sep-89	18.4	-2.0	0.0	6.3	5.13	167	1.7	19.8	8.4	84	21	0.55	1458	1545
27-Sep-89	24.7	16.1	0.0	5.6	0.50	207	6.5	20.2	15.4	30	20	0.57	1468	1555
28-Sep-89	26.5	12.7	0.0	11.4	3.77	250	4.2	21.2	13.7	58	28	0.82	1478	1565
29-Sep-89	26.9	6.5	0.0	3.8	4.76	212	1.9	23.2	12.4	78	19	0.82	1484	1574
30-Sep-89	28.9	13.9	0.0	5.1	4.65	209	7.2	22.9	14.7	53	25	0.92	1496	1585

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
22.5	9.5	62.5	M	4.24	241	3.5	22.0	14.2	M	M	1.16	192	226

LAMBERTON

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	30.1	5.4	0.0	11.4	4.12	241	8.7	23.8	15.8	75	25	1.02	1503	1595
02-Oct-89	7.7	-1.5	0.0	11.4	3.78	345	5.5	17.2	10.2	71	47	0.48	1503	1595
03-Oct-89	11.2	-5.7	0.0	3.0	4.76	318	1.7	16.5	6.7	82	21	0.35	1503	1596
04-Oct-89	12.2	-4.0	0.0	3.6	1.55	177	2.8	11.9	6.6	73	22	0.39	1503	1597
05-Oct-89	16.6	7.3	0.0	1.3	3.87	281	4.9	17.5	10.6	79	43	0.88	1505	1600
06-Oct-89	11.7	0.9	0.0	6.3	4.60	325	3.8	15.7	8.3	76	32	0.50	1505	1601
07-Oct-89	14.2	-2.7	0.0	2.5	3.85	289	1.8	15.3	6.4	65	20	0.37	1505	1603
08-Oct-89	15.3	-1.9	0.0	2.5	4.18	126	1.6	16.3	6.8	75	17	0.36	1505	1606
09-Oct-89	23.4	4.8	0.0	3.6	3.82	277	4.7	16.4	8.5	60	14	0.58	1509	1612
10-Oct-89	20.1	0.6	0.0	3.6	4.14	227	4.3	17.1	7.9	89	30	0.70	1510	1617
11-Oct-89	25.1	5.3	0.0	8.9	4.17	261	5.8	19.5	11.3	63	30	0.82	1515	1625
12-Oct-89	23.8	1.0	0.0	6.9	4.03	230	4.4	17.9	9.4	75	21	0.62	1517	1632
13-Oct-89	27.8	8.3	0.0	7.6	3.29	149	3.2	19.4	11.5	66	21	0.81	1525	1641
14-Oct-89	26.1	5.2	0.0	5.8	3.85	65	2.6	19.6	10.9	74	28	0.83	1531	1649
15-Oct-89	15.8	5.4	0.0	M	2.64	350	4.6	16.7	11.6	86	47	0.80	1532	1652
16-Oct-89	9.4	-0.6	0.0	M	3.07	24	5.4	14.2	9.1	90	50	0.62	1532	1652
17-Oct-89	9.0	-3.8	0.0	M	3.34	357	3.3	12.6	5.8	89	44	0.46	1532	1652
18-Oct-89	7.8	-5.8	0.0	M	2.54	355	2.4	11.4	5.2	88	40	0.41	1532	1652
19-Oct-89	8.3	-7.6	0.0	M	3.91	319	2.0	11.7	2.1	78	38	0.34	1532	1652
20-Oct-89	18.0	-7.5	0.0	M	3.67	262	2.3	13.2	3.1	73	16	0.33	1532	1656
21-Oct-89	20.5	-4.3	0.0	M	3.72	187	2.2	14.3	4.0	63	19	0.40	1532	1661
22-Oct-89	25.3	7.8	0.0	M	2.95	214	6.6	15.2	7.7	57	24	0.70	1538	1669
23-Oct-89	25.5	6.4	0.0	M	3.52	274	1.9	18.3	9.7	69	25	0.75	1544	1676
24-Oct-89	27.8	2.9	0.0	M	3.42	209	3.5	17.8	9.1	70	23	0.87	1550	1685
25-Oct-89	27.5	13.8	0.0	M	3.31	203	6.9	19.4	12.8	93	47	1.64	1560	1696
26-Oct-89	26.4	17.1	0.0	M	2.52	192	7.9	19.3	15.0	84	47	1.59	1572	1708
27-Oct-89	19.3	2.9	0.0	M	3.45	241	5.4	18.3	11.8	72	41	0.92	1573	1712
28-Oct-89	17.2	1.8	0.0	M	2.21	147	3.9	15.3	8.9	95	63	1.13	1573	1716
29-Oct-89	14.9	4.3	0.0	M	0.38	317	5.0	14.0	9.8	100	83	1.07	1573	1718
30-Oct-89	4.8	-4.8	0.0	M	1.36	344	3.3	9.9	5.0	88	55	0.50	1573	1718
31-Oct-89	10.6	-6.7	0.0	M	2.78	322	2.2	11.6	2.4	91	54	0.48	1573	1719
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	17.9	1.4	0.0	M	3.32	246	4.0	16.0	8.5	78	35	0.70	77	134

## MORRIS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Apr-89	7.1	-0.6	1.8	M	2.47	159	5.2	3.3	0.6	90	83	0.63	0	0
02-Apr-89	12.1	0.5	7.1	1.5	2.86	132	5.7	5.2	0.6	89	70	0.85	2	1
03-Apr-89	6.4	0.6	2.8	1.5	1.44	295	5.7	4.3	2.0	90	86	0.71	2	1
04-Apr-89	6.7	-0.7	0.0	1.5	3.74	329	6.2	5.0	1.3	90	73	0.62	2	1
05-Apr-89	10.2	-1.2	0.0	1.5	5.43	319	2.6	6.6	0.8	91	68	0.66	2	1
06-Apr-89	8.0	-1.8	0.0	1.5	5.73	345	2.8	6.9	1.0	91	49	0.55	2	1
07-Apr-89	4.0	-4.2	4.8	1.5	1.96	129	3.4	3.0	1.0	91	84	0.57	2	1
08-Apr-89	-3.3	-8.9	0.0	1.5	5.17	334	6.8	2.2	0.8	90	71	0.32	2	1
09-Apr-89	-1.0	-8.9	0.0	1.5	6.32	326	7.3	1.0	0.5	84	69	0.32	2	1
10-Apr-89	5.0	-7.3	1.5	1.5	5.99	269	3.8	0.6	0.5	90	50	0.41	2	1
11-Apr-89	2.7	-3.7	0.0	1.5	5.04	332	4.1	0.7	0.5	92	63	0.47	2	1
12-Apr-89	7.4	-5.3	0.0	1.5	5.53	127	1.5	4.9	0.5	90	53	0.49	2	1
13-Apr-89	15.1	0.2	0.0	1.5	4.68	182	4.6	7.8	1.2	90	58	0.79	5	4
14-Apr-89	11.4	-0.5	0.0	1.5	5.61	322	3.9	8.6	2.5	90	47	0.65	6	4
15-Apr-89	16.9	-1.0	0.0	1.5	6.13	179	5.5	10.0	1.8	91	41	0.72	10	8
16-Apr-89	15.9	-1.1	0.3	1.5	3.59	341	4.4	10.5	5.7	90	39	0.78	13	11
17-Apr-89	4.4	-5.9	1.8	5.1	6.90	333	4.1	9.9	2.6	92	42	0.34	13	11
18-Apr-89	12.7	-1.0	0.0	4.1	6.55	282	3.8	10.2	3.9	91	29	0.56	14	12
19-Apr-89	22.2	-0.4	0.0	6.3	6.62	126	2.9	14.1	3.1	85	22	0.65	20	18
20-Apr-89	22.7	5.8	0.0	7.1	6.07	84	5.1	15.3	7.2	56	23	0.63	30	25
21-Apr-89	22.2	5.0	1.3	8.6	6.14	100	6.4	15.3	8.3	79	38	0.88	39	31
22-Apr-89	20.0	11.3	0.0	6.9	4.80	123	10.2	14.8	10.9	87	57	1.29	51	36
23-Apr-89	21.5	9.8	0.3	6.6	3.93	127	8.4	14.8	10.2	85	61	1.28	62	42
24-Apr-89	25.7	10.0	0.3	6.3	5.92	120	4.1	18.0	10.6	85	50	1.32	75	50
25-Apr-89	21.0	10.4	5.1	3.8	4.29	1	3.9	16.9	12.1	89	67	1.35	86	56
26-Apr-89	14.5	9.1	5.6	2.8	1.96	61	4.8	14.0	10.9	90	83	1.16	94	58
27-Apr-89	12.1	5.9	10.2	4.1	2.12	54	7.1	11.0	8.8	89	81	1.01	98	59
28-Apr-89	6.1	3.1	16.0	1.0	0.66	54	6.3	8.9	5.9	91	89	0.78	99	59
29-Apr-89	6.4	2.1	1.0	1.3	2.74	18	3.7	7.8	4.5	91	81	0.70	99	59
30-Apr-89	8.0	1.7	0.5	2.0	3.73	331	2.1	9.0	4.4	91	64	0.68	99	59
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	11.5	0.8	60.2	M	4.47	198	4.9	8.7	4.2	88	60	0.74	99	59

01-May-89	11.5	0.7	0.0	3.0	5.21	286	1.4	11.7	4.5	91	45	0.67	101	60
02-May-89	16.6	-0.2	0.0	4.8	6.04	262	2.7	14.0	4.6	91	36	0.70	104	63
03-May-89	20.0	2.0	0.3	7.1	7.16	194	3.9	16.5	6.9	88	24	0.70	111	68
04-May-89	15.7	1.8	8.9	3.3	2.49	336	5.1	13.5	9.1	89	68	1.00	115	71
05-May-89	3.6	-2.4	0.0	5.1	6.83	331	9.2	9.1	5.0	88	41	0.39	115	71
06-May-89	13.5	-2.9	0.0	5.1	7.76	335	5.6	12.1	3.5	63	18	0.37	116	73
07-May-89	22.0	-1.8	7.6	8.1	6.96	151	3.4	15.6	5.1	80	13	0.42	122	79
08-May-89	12.9	4.1	0.5	4.8	1.80	74	5.9	12.7	8.2	91	39	0.94	126	80
09-May-89	22.7	2.6	0.0	2.3	7.71	298	1.6	17.8	6.0	90	17	0.83	134	86
10-May-89	25.5	6.2	0.0	9.9	7.84	117	3.7	21.0	10.4	88	16	0.84	146	94
11-May-89	25.7	9.7	0.0	12.4	7.44	145	7.1	20.3	13.3	61	15	0.69	159	102
12-May-89	25.9	8.5	0.0	11.2	8.11	111	4.8	21.7	13.3	54	13	0.57	172	110
13-May-89	23.3	5.4	0.0	7.1	7.81	76	3.2	21.7	13.3	71	20	0.68	182	117
14-May-89	25.3	9.5	0.0	6.3	7.97	76	2.6	24.2	15.1	86	29	1.15	194	124
15-May-89	28.2	10.9	0.0	6.1	6.46	127	1.8	24.6	16.6	85	27	1.14	210	134
16-May-89	28.9	12.4	0.3	11.9	5.70	156	4.3	23.7	17.6	73	21	1.00	226	145
17-May-89	27.1	16.0	7.4	7.1	3.19	172	5.4	21.2	18.8	87	33	1.44	243	156
18-May-89	19.7	17.4	2.5	1.8	2.01	130	5.0	19.1	17.0	87	82	1.79	257	165
19-May-89	23.9	7.4	0.0	2.5	3.95	240	3.8	21.6	15.5	89	66	1.63	268	172
20-May-89	23.2	5.3	0.0	9.9	8.22	273	3.8	21.7	12.3	89	17	0.74	278	178
21-May-89	27.2	5.5	0.8	8.4	6.37	156	3.5	21.0	13.7	83	15	0.93	290	187
22-May-89	27.7	11.8	15.5	8.4	6.31	166	3.8	23.9	15.5	87	40	1.41	305	196
23-May-89	27.8	14.5	0.0	6.9	6.80	118	4.2	23.8	15.8	88	56	1.82	322	208
24-May-89	21.0	10.3	2.0	2.3	1.69	51	6.5	19.7	15.2	88	78	1.60	333	213
25-May-89	21.1	7.4	0.0	11.4	6.99	255	7.2	19.6	12.5	88	18	0.82	343	219
26-May-89	14.6	5.6	0.0	2.8	5.96	318	6.0	18.3	13.0	83	41	0.75	349	221
27-May-89	24.8	3.7	0.0	10.7	8.37	173	4.4	22.3	11.5	87	18	0.69	358	229
28-May-89	27.3	12.7	0.3	11.2	5.88	164	6.5	22.9	16.1	81	37	1.21	374	239
29-May-89	17.0	9.3	0.5	1.8	1.42	77	5.5	19.9	15.6	88	81	1.41	383	242
30-May-89	17.4	8.3	0.0	3.3	3.29	25	4.0	18.6	14.1	89	75	1.23	391	246
31-May-89	16.9	9.5	0.0	2.8	2.79	333	2.6	18.3	14.8	88	62	1.16	400	249
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	21.2	6.8	46.5	199.9	5.69	185	4.5	19.1	12.1	83	37	0.99	301	190

## MORRIS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Jun-89	22.7	8.0	0.0	7.1	7.29	270	2.8	22.3	13.5	89	38	1.09	411	255
02-Jun-89	23.5	10.8	0.3	4.1	5.03	306	2.8	21.9	16.2	80	46	1.23	423	263
03-Jun-89	22.7	7.5	0.0	6.9	8.34	326	2.7	24.2	15.2	84	16	0.83	434	269
04-Jun-89	22.8	7.6	0.0	10.4	8.45	342	2.5	25.3	16.3	80	19	0.68	445	275
05-Jun-89	28.1	11.5	0.0	5.6	5.58	271	4.0	23.7	17.7	81	22	1.02	460	285
06-Jun-89	29.3	13.1	0.0	11.2	8.34	93	4.0	27.4	18.2	82	29	1.28	477	296
07-Jun-89	23.0	10.3	0.3	8.1	6.17	303	6.0	25.3	21.0	85	57	1.39	489	303
08-Jun-89	13.1	6.0	0.3	4.3	2.44	343	4.4	21.0	16.0	89	77	1.08	494	305
09-Jun-89	21.0	4.1	0.0	6.6	8.76	11	2.5	23.6	13.4	90	25	0.81	502	310
10-Jun-89	26.0	7.1	0.0	11.7	8.41	134	4.0	24.7	15.9	84	15	0.81	515	318
11-Jun-89	25.7	13.2	52.6	M	3.46	134	5.5	22.0	18.5	87	43	1.49	529	328
12-Jun-89	21.0	9.3	4.3	4.1	3.42	295	5.3	20.1	15.3	86	77	1.60	540	333
13-Jun-89	13.3	7.5	1.5	1.5	2.68	5	3.1	16.0	13.2	89	77	1.10	546	335
14-Jun-89	18.5	8.8	0.0	4.3	6.23	14	3.7	18.8	12.4	89	41	1.04	555	339
15-Jun-89	23.6	6.9	0.0	5.6	8.43	11	1.2	25.0	12.3	89	36	1.08	566	346
16-Jun-89	26.0	10.0	0.0	6.6	8.73	125	3.5	26.4	16.2	88	23	1.09	580	354
17-Jun-89	27.0	12.9	0.0	4.3	4.73	170	4.2	23.7	18.2	95	12	1.53	595	364
18-Jun-89	29.0	16.8	0.0	11.9	8.45	298	2.7	28.2	18.9	99	31	1.63	614	377
19-Jun-89	32.4	15.4	0.0	14.2	8.52	152	5.3	29.2	20.8	86	35	1.61	633	389
20-Jun-89	35.8	22.3	6.6	16.0	6.76	158	10.2	29.3	23.4	85	39	1.88	658	405
21-Jun-89	27.8	15.7	1.0	4.8	3.66	193	4.9	26.5	21.1	96	82	2.44	675	417
22-Jun-89	23.9	12.9	0.0	4.1	6.07	327	1.9	26.3	18.2	97	50	1.57	689	426
23-Jun-89	27.3	14.9	0.0	4.8	6.92	282	1.1	29.4	20.4	96	41	1.57	706	437
24-Jun-89	26.4	12.8	2.8	4.3	4.19	129	2.3	25.9	20.5	99	42	1.67	721	446
25-Jun-89	24.0	17.6	13.2	6.6	4.88	235	3.4	25.4	20.7	100	62	2.04	737	457
26-Jun-89	23.4	13.1	0.0	1.8	7.16	269	3.0	24.7	19.9	100	44	1.76	751	465
27-Jun-89	30.1	10.2	0.0	7.6	7.76	190	1.4	29.3	17.3	99	41	1.68	767	475
28-Jun-89	31.5	16.7	0.0	10.7	7.98	111	6.1	29.7	21.5	80	49	2.02	786	489
29-Jun-89	31.9	20.9	33.8	M	5.97	175	4.9	29.6	23.5	96	45	2.32	808	504
30-Jun-89	32.2	19.6	0.0	5.8	8.14	44	1.1	31.1	23.0	98	54	2.51	830	519
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	25.4	12.1	116.6	M	6.43	190	3.7	25.2	18.0	90	42	1.46	430	270
01-Jul-89	33.4	20.6	0.0	8.4	8.04	164	1.4	34.2	23.6	100	54	2.56	852	534
02-Jul-89	31.7	19.3	6.3	9.4	7.79	175	3.2	33.6	25.0	98	62	2.72	874	549
03-Jul-89	31.4	18.3	0.5	7.4	7.76	335	2.0	32.0	24.5	100	40	2.32	894	563
04-Jul-89	33.3	19.0	0.0	6.6	8.23	145	3.3	34.1	24.2	94	51	2.51	916	578
05-Jul-89	34.0	21.6	0.0	10.7	8.21	167	4.9	34.3	26.4	92	52	2.71	939	594
06-Jul-89	30.6	19.4	0.0	8.9	7.49	355	3.8	33.4	26.7	94	47	2.31	960	608
07-Jul-89	30.1	15.8	52.6	M	7.88	86	2.7	33.3	25.0	89	38	1.71	978	621
08-Jul-89	33.2	16.9	0.0	3.8	7.66	121	4.2	30.2	22.9	100	54	2.47	999	635
09-Jul-89	32.3	19.9	0.0	8.9	6.45	76	4.3	31.8	24.2	99	68	2.90	1020	650
10-Jul-89	30.6	17.4	0.0	8.6	7.97	69	2.5	33.8	24.1	99	55	2.31	1040	663
11-Jul-89	25.0	19.2	0.0	1.8	2.75	69	2.4	28.9	25.2	98	79	2.39	1058	675
12-Jul-89	30.7	17.4	0.0	4.3	5.97	46	1.5	31.9	23.1	100	63	2.45	1077	689
13-Jul-89	26.4	15.8	0.0	6.6	7.64	41	2.5	31.8	23.8	100	56	1.93	1094	700
14-Jul-89	28.2	14.7	0.0	5.8	6.65	69	1.3	31.8	23.4	98	44	1.72	1111	712
15-Jul-89	29.5	13.7	0.0	6.1	7.93	65	1.2	32.9	23.4	95	33	1.61	1128	723
16-Jul-89	29.9	12.3	0.0	5.8	7.73	162	1.0	33.4	23.9	100	39	1.79	1145	734
17-Jul-89	26.1	13.9	41.1	3.6	4.51	147	2.6	29.0	23.4	100	61	2.01	1160	744
18-Jul-89	26.6	17.1	0.5	8.6	5.64	21	3.2	25.4	21.1	100	63	2.14	1178	756
19-Jul-89	28.5	15.2	0.0	7.1	6.74	10	1.9	29.8	19.7	100	47	2.00	1195	768
20-Jul-89	29.2	14.9	0.0	5.6	6.53	334	2.0	30.8	21.5	97	49	2.02	1213	780
21-Jul-89	32.4	15.8	0.0	6.1	6.56	68	1.0	32.8	22.8	100	45	2.23	1232	793
22-Jul-89	29.1	15.6	0.0	7.1	6.97	131	1.8	32.3	24.0	100	50	2.05	1250	805
23-Jul-89	28.3	16.3	0.0	5.8	5.34	132	2.1	30.6	23.9	97	67	2.29	1268	818
24-Jul-89	29.2	18.7	0.0	3.3	6.04	161	3.1	31.2	24.1	100	62	2.40	1288	832
25-Jul-89	31.1	18.9	0.0	8.1	6.61	169	3.3	32.1	24.6	100	58	2.53	1308	846
26-Jul-89	33.6	20.2	0.0	9.4	7.03	178	3.0	33.4	25.6	100	51	2.64	1331	861
27-Jul-89	28.1	16.0	0.0	8.9	7.26	12	2.9	33.5	26.3	92	48	1.99	1348	873
28-Jul-89	29.0	14.0	8.4	4.1	6.36	109	4.7	30.9	24.4	99	60	2.06	1365	885
29-Jul-89	27.8	18.8	0.0	6.1	3.72	150	1.9	27.8	24.1	100	78	2.64	1384	898
30-Jul-89	29.4	19.1	0.0	4.8	5.35	197	2.0	30.6	22.9	100	65	2.53	1404	912
31-Jul-89	30.8	14.9	0.0	6.1	6.93	154	1.4	32.8	22.7	100	51	2.34	1422	925
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.0	17.1	109.5	M	6.70	133	2.5	31.8	23.9	98	54	2.27	592	406

## MORRIS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Aug-89	32.9	20.7	0.0	9.1	7.04	180	4.0	32.8	24.9	100	56	2.76	1445	940
02-Aug-89	32.0	19.7	0.0	9.1	6.66	171	6.0	31.7	25.2	98	64	2.74	1466	955
03-Aug-89	33.1	22.0	0.5	6.6	6.16	190	3.7	33.3	26.2	97	65	3.00	1489	971
04-Aug-89	33.4	19.0	0.0	9.1	6.48	282	2.7	33.1	25.9	99	38	2.03	1511	985
05-Aug-89	23.1	13.9	0.0	6.6	5.67	318	4.5	29.3	24.7	96	63	1.68	1525	994
06-Aug-89	20.5	9.5	0.0	5.8	5.92	0	3.2	26.9	21.9	93	49	1.18	1536	999
07-Aug-89	25.4	7.9	0.0	4.6	7.17	334	2.3	27.8	19.8	98	37	1.23	1548	1007
08-Aug-89	29.2	8.8	0.0	7.1	7.17	295	1.4	29.7	20.4	99	25	1.25	1562	1016
09-Aug-89	30.6	10.5	0.0	8.9	7.25	149	2.1	30.3	21.3	98	28	1.43	1578	1027
10-Aug-89	30.3	12.6	0.0	7.6	6.39	168	3.1	29.6	22.4	95	45	1.76	1595	1038
11-Aug-89	29.8	16.3	7.4	12.2	6.66	163	3.5	30.2	23.1	90	44	1.85	1614	1051
12-Aug-89	29.8	17.4	0.8	6.1	5.92	168	3.0	29.9	23.2	100	59	2.25	1633	1064
13-Aug-89	32.9	15.5	7.4	5.6	6.04	301	1.3	31.4	21.3	100	39	2.11	1653	1077
14-Aug-89	23.6	14.5	1.0	5.1	4.88	347	2.4	25.2	21.3	100	70	2.00	1667	1086
15-Aug-89	25.9	11.8	0.0	3.8	5.16	111	0.9	26.3	18.5	100	50	1.70	1682	1095
16-Aug-89	26.0	12.2	0.0	7.4	6.97	130	2.0	28.8	19.4	100	43	1.57	1696	1104
17-Aug-89	28.4	14.5	0.0	7.6	6.30	144	4.1	28.3	20.8	92	51	1.77	1714	1116
18-Aug-89	28.8	15.1	31.0	12.2	6.14	162	5.8	27.7	21.3	96	47	1.78	1731	1128
19-Aug-89	26.5	16.0	0.3	6.3	4.62	277	2.7	25.3	20.9	100	63	2.22	1748	1139
20-Aug-89	22.2	14.1	0.0	4.1	6.09	332	2.4	25.4	18.4	100	72	1.76	1762	1147
21-Aug-89	26.7	13.7	2.3	3.8	3.79	117	3.7	25.0	18.6	100	73	2.05	1777	1157
22-Aug-89	30.1	14.5	0.0	3.0	5.88	96	1.5	28.6	18.4	100	56	2.32	1795	1169
23-Aug-89	28.3	17.8	0.0	7.1	6.41	106	3.8	29.1	21.0	99	67	2.37	1814	1182
24-Aug-89	24.6	16.7	0.0	4.8	3.26	131	4.7	25.3	22.2	100	71	2.26	1830	1193
25-Aug-89	22.5	15.7	12.7	3.0	2.09	139	4.6	22.7	20.0	100	91	2.20	1845	1202
26-Aug-89	27.6	18.5	3.8	2.5	3.55	54	2.1	25.6	20.7	100	72	2.60	1863	1215
27-Aug-89	24.9	12.4	0.0	6.3	5.14	83	2.7	24.1	18.8	100	53	1.72	1877	1224
28-Aug-89	26.4	15.4	0.0	3.0	3.91	210	3.2	25.6	19.3	100	77	2.18	1894	1235
29-Aug-89	22.4	11.9	0.0	5.8	6.41	294	3.1	25.1	18.1	100	53	1.48	1907	1242
30-Aug-89	20.7	12.4	9.9	5.1	3.90	97	4.7	21.1	18.0	100	80	1.73	1919	1249
31-Aug-89	21.1	17.5	31.0	7.9	1.43	63	4.4	20.4	18.7	100	95	2.15	1934	1258
MEAN	27.1	14.8	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
			108.0	197.6	5.50	181	3.2	27.6	21.1	98	58	1.97	512	333

01-Sep-89	22.9	11.7	0.0	6.1	5.43	329	2.3	22.7	18.0	100	63	1.88	1946	1265
02-Sep-89	24.8	9.4	0.3	4.3	5.65	131	2.0	24.7	15.5	100	56	1.66	1959	1273
03-Sep-89	23.1	15.2	29.5	4.1	1.53	131	5.1	20.7	18.3	99	89	2.02	1974	1282
04-Sep-89	24.3	12.3	0.0	5.1	5.90	269	3.2	22.2	18.4	100	49	1.84	1988	1290
05-Sep-89	27.5	10.8	0.0	8.6	6.07	169	3.5	24.5	15.7	100	50	1.69	2002	1299
06-Sep-89	26.5	17.0	0.0	2.8	2.49	159	4.1	23.5	19.2	100	86	2.48	2020	1311
07-Sep-89	22.7	10.5	0.0	2.8	3.48	299	1.3	22.7	17.6	100	58	1.59	2032	1317
08-Sep-89	18.2	10.6	0.0	0.8	2.58	318	1.8	19.8	16.5	100	68	1.41	2042	1322
09-Sep-89	18.3	5.4	0.0	2.5	3.64	311	2.0	20.0	15.5	100	57	1.15	2049	1326
10-Sep-89	15.9	2.0	15.7	3.8	2.38	237	0.7	16.7	12.5	100	53	1.05	2054	1329
11-Sep-89	12.5	4.6	0.0	4.1	4.78	281	4.1	15.2	11.0	100	56	0.93	2058	1330
12-Sep-89	15.4	4.3	0.0	1.8	4.24	325	1.8	16.8	10.6	100	57	1.01	2063	1333
13-Sep-89	18.4	1.3	0.0	4.3	5.66	215	1.7	18.7	9.5	100	45	0.93	2069	1337
14-Sep-89	22.9	4.0	0.0	5.3	5.70	191	2.0	20.0	10.9	100	36	1.03	2078	1344
15-Sep-89	24.0	6.5	0.0	3.6	5.61	167	3.5	20.6	12.6	98	43	1.20	2089	1351
16-Sep-89	26.1	10.0	0.0	6.6	5.41	153	1.8	23.3	14.4	100	53	1.52	2102	1359
17-Sep-89	30.9	11.9	0.0	12.7	5.19	152	4.7	23.6	16.2	100	45	1.87	2119	1370
18-Sep-89	30.5	17.6	0.0	8.9	5.16	168	7.4	24.2	18.6	99	37	1.82	2139	1384
19-Sep-89	21.2	14.1	2.8	4.1	1.72	341	1.5	21.5	18.0	100	70	1.81	2152	1391
20-Sep-89	24.5	17.1	16.0	8.6	1.30	100	2.4	19.6	17.4	100	90	2.35	2168	1402
21-Sep-89	24.2	11.0	0.0	3.3	3.09	339	3.3	22.0	16.9	100	75	1.97	2182	1410
22-Sep-89	11.0	0.5	0.0	4.3	4.10	343	5.0	16.9	10.4	100	46	0.80	2183	1410
23-Sep-89	13.0	-1.5	0.0	3.0	5.28	297	1.8	16.1	7.3	99	41	0.60	2184	1412
24-Sep-89	20.0	2.0	0.0	6.9	4.99	184	5.5	16.4	8.6	79	25	0.65	2191	1417
25-Sep-89	14.5	3.5	0.0	5.1	5.00	331	2.9	16.8	11.1	97	44	0.83	2195	1419
26-Sep-89	16.9	-0.6	0.0	5.1	5.00	140	2.5	16.7	8.7	100	35	0.68	2199	1422
27-Sep-89	26.2	8.2	0.0	9.1	4.72	174	7.1	18.7	11.1	63	29	0.86	2212	1430
28-Sep-89	27.5	9.2	0.0	5.6	4.28	304	2.9	20.4	13.5	81	28	1.04	2226	1439
29-Sep-89	24.6	4.5	0.0	5.1	4.62	161	2.5	20.6	12.8	99	29	0.94	2236	1446
30-Sep-89	29.8	13.8	0.0	12.7	4.39	176	7.3	21.7	15.3	63	29	1.13	2253	1458
MEAN	22.0	8.2	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
			64.3	161.0	4.31	230	3.3	20.2	14.1	96	51	1.36	319	200

## MORRIS

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 1030
01-Oct-89	26.5	2.7	0.0	5.6	2.43	285	7.6	20.6	14.3	98	41	1.13	2263	1466
02-Oct-89	4.2	-3.2	0.0	5.3	2.50	333	5.6	14.3	8.7	88	60	0.51	2263	1466
03-Oct-89	9.0	-5.9	0.0	3.6	4.74	313	1.6	12.9	5.8	98	40	0.43	2263	1466
04-Oct-89	12.9	-4.6	0.0	6.6	2.01	151	3.3	10.5	5.8	90	31	0.49	2263	1468
05-Oct-89	13.2	3.2	0.0	12.7	1.86	296	4.1	11.6	8.1	86	60	0.79	2267	1470
06-Oct-89	10.4	-0.9	0.0	1.3	4.52	324	3.3	12.0	6.8	90	42	0.53	2267	1470
07-Oct-89	12.7	-2.6	0.0	5.3	4.11	295	1.4	12.1	5.4	90	28	0.46	2268	1471
08-Oct-89	14.8	-4.1	0.0	3.6	4.08	116	0.6	13.1	5.6	98	20	0.42	2269	1473
09-Oct-89	16.8	1.7	0.0	4.1	3.20	319	3.4	12.9	7.2	86	36	0.58	2274	1477
10-Oct-89	19.4	0.6	0.0	5.3	3.68	177	3.2	13.9	7.3	100	28	0.71	2279	1482
11-Oct-89	20.8	3.9	0.0	7.6	2.80	317	4.1	14.2	9.7	75	39	0.74	2287	1487
12-Oct-89	22.8	-1.0	0.0	5.1	2.93	239	3.0	14.0	7.5	89	23	0.69	2294	1493
13-Oct-89	26.0	6.7	0.0	12.7	3.61	111	1.9	16.2	9.8	79	18	0.71	2305	1501
14-Oct-89	21.8	4.6	0.0	4.1	3.21	62	2.7	15.4	10.4	79	30	0.75	2314	1507
15-Oct-89	10.2	4.9	0.0	2.3	1.18	344	4.6	12.6	10.2	93	54	0.77	2317	1507
16-Oct-89	8.1	-2.6	0.0	M	3.65	351	3.8	11.9	8.1	94	52	0.58	2317	1507
17-Oct-89	8.3	-5.4	0.0	M	3.51	335	2.0	10.2	5.2	100	47	0.50	2317	1507
18-Oct-89	8.5	-5.9	0.0	M	2.44	358	0.7	8.9	4.5	100	43	0.44	2317	1507
19-Oct-89	9.4	-7.6	0.0	M	3.80	188	0.7	8.9	2.9	98	36	0.38	2317	1507
20-Oct-89	16.9	-5.0	0.0	M	3.69	247	0.8	10.1	3.4	71	18	0.35	2319	1511
21-Oct-89	18.4	-1.9	0.0	M	3.23	140	3.0	10.3	4.1	75	19	0.44	2323	1515
22-Oct-89	23.9	5.4	0.0	M	2.64	153	3.8	12.6	7.3	72	26	0.64	2333	1522
23-Oct-89	23.4	1.0	0.0	M	3.36	341	1.2	13.6	7.0	97	28	0.75	2341	1529
24-Oct-89	25.7	5.3	0.0	M	3.26	144	3.0	14.2	8.0	78	29	0.83	2352	1537
25-Oct-89	28.0	12.2	0.0	M	3.07	157	5.8	16.5	11.3	97	38	1.49	2367	1547
26-Oct-89	26.4	16.6	0.5	M	2.42	156	8.8	17.7	14.5	92	45	1.65	2385	1558
27-Oct-89	18.4	4.0	0.0	M	3.32	221	6.1	16.5	12.0	74	32	0.84	2391	1562
28-Oct-89	20.3	0.6	24.4	M	3.20	91	3.6	14.4	9.0	100	27	0.78	2397	1567
29-Oct-89	10.9	0.7	0.5	M	1.00	342	5.2	12.2	6.8	100	88	0.94	2399	1568
30-Oct-89	5.5	-3.8	0.0	M	2.84	321	2.3	7.4	4.3	96	56	0.52	2399	1568
31-Oct-89	5.1	-6.0	0.0	M	2.98	336	1.6	5.2	2.6	100	61	0.49	2399	1568
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	16.1	0.4	25.4	M	3.07	244	3.3	12.8	7.5	90	38	0.69	146	110

## ROSEAU

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Apr-89	5.2	-7.9	0.0	M	3.88	189	5.0	-0.0	-0.1	90	69	0.52	0	0
02-Apr-89 *	9.4	-5.2	0.0	M	6.21	211	2.7	-0.0	-0.1	89	29	0.56	0	0
03-Apr-89	3.2	0.9	0.0	M	1.99	26	3.6	-0.0	-0.1	88	86	0.61	0	0
04-Apr-89	8.3	-3.0	0.0	M	6.16	337	3.6	-0.0	-0.1	87	48	0.51	0	0
05-Apr-89	8.7	-5.4	0.0	M	5.14	263	2.1	-0.0	-0.1	89	53	0.48	0	0
06-Apr-89	3.3	-9.3	0.0	M	6.40	268	2.2	-0.0	-0.1	89	45	0.33	0	0
07-Apr-89	0.7	-10.5	0.0	M	3.40	25	4.1	0.0	-0.1	89	60	0.35	0	0
08-Apr-89	-3.7	-19.0	0.0	M	6.44	306	2.9	0.0	-0.1	83	50	0.18	0	0
09-Apr-89	0.5	-17.0	0.0	M	6.63	304	2.6	-0.0	-0.1	84	40	0.20	0	0
10-Apr-89	2.9	-15.9	0.0	M	5.55	243	3.6	3.7	-0.0	89	57	0.35	0	0
11-Apr-89	0.6	-12.3	0.0	M	6.77	268	2.3	2.4	0.0	90	49	0.28	0	0
12-Apr-89	10.6	-14.9	0.0	M	7.01	208	1.1	0.7	-0.1	89	21	0.27	0	0
13-Apr-89	6.5	-6.1	0.0	M	4.70	205	4.1	0.7	-0.1	86	72	0.55	0	0
14-Apr-89	4.6	-2.1	0.0	M	6.77	265	2.7	3.0	0.1	86	64	0.52	0	0
15-Apr-89	10.2	-3.0	0.0	M	5.36	199	5.1	1.7	-0.1	88	61	0.63	0	0
16-Apr-89	8.1	-6.8	0.0	M	4.99	332	4.4	1.0	0.0	88	61	0.53	0	0
17-Apr-89	1.2	-9.7	0.0	M	6.78	243	5.2	0.5	-0.1	75	58	0.31	0	0
18-Apr-89	5.1	-1.6	0.0	M	7.08	257	4.3	3.4	-0.2	84	45	0.43	0	0
19-Apr-89	11.7	-3.1	0.0	M	7.07	272	1.5	5.9	-0.1	88	30	0.52	0	0
20-Apr-89	9.9	0.7	0.0	M	1.79	65	2.7	4.7	1.0	83	54	0.60	1	0
21-Apr-89	18.6	-1.0	0.0	M	6.81	137	2.5	10.0	0.9	88	37	0.69	5	0
22-Apr-89	19.9	7.1	0.0	M	6.36	119	5.5	10.6	3.3	74	41	0.84	14	4
23-Apr-89	17.6	6.5	0.0	M	3.85	125	3.4	9.9	3.8	82	47	0.73	22	6
24-Apr-89 *	16.7	7.2	2.5	M	M	M	M	M	M	M	M	M	29	7
25-Apr-89 *	16.1	4.4	0.0	M	2.80	70	2.9	10.6	M	M	64	M	35	8
26-Apr-89 *	17.9	1.7	0.0	M	6.98	2	3.5	13.3	M	M	40	M	41	8
27-Apr-89	1.2	-9.7	0.0	M	6.78	243	5.2	0.5	-0.1	75	58	0.31	41	8
28-Apr-89	5.1	-1.6	0.0	M	7.08	257	4.3	3.4	-0.2	84	45	0.43	41	8
29-Apr-89	11.7	-3.1	0.0	M	7.07	272	1.5	5.9	-0.1	88	30	0.52	41	8
30-Apr-89	9.9	0.7	0.0	M	1.79	65	2.7	4.7	1.0	83	54	0.60	41	8
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	8.0	-4.6	2.5	M	5.32	192	3.2	3.2	M	M	49	M	41	8
01-May-89	18.6	-1.0	0.0	M	6.81	137	2.5	10.0	0.9	88	37	0.69	46	8
02-May-89	19.9	7.1	0.0	M	6.36	119	5.5	10.6	3.3	74	41	0.84	55	11
03-May-89	17.6	6.5	0.0	M	3.85	125	3.4	9.9	3.8	82	47	0.73	63	13
04-May-89	18.9	-1.2	1.3	M	3.74	285	5.1	14.7	6.3	87	43	0.88	67	13
05-May-89	-1.2	-6.3	5.1	M	4.69	344	9.0	6.3	1.7	83	56	0.33	67	13
06-May-89	12.5	-5.4	0.0	M	7.66	316	3.2	11.2	0.7	77	18	0.32	67	13
07-May-89	20.8	-2.6	0.0	M	4.14	169	2.8	12.4	2.8	75	16	0.46	72	13
08-May-89	21.9	6.3	0.0	M	6.09	77	1.8	17.8	7.4	86	21	0.78	81	17
09-May-89	24.1	0.4	0.0	M	7.45	350	1.5	20.7	7.2	85	14	0.55	89	20
10-May-89	28.4	13.9	0.0	M	0.87	150	3.2	21.5	16.4	35	15	0.56	106	31
11-May-89	26.3	11.1	0.0	M	7.63	168	5.9	21.7	12.2	48	22	0.73	120	40
12-May-89 *	26.7	10.6	0.0	M	M	M	M	M	M	M	M	M	134	48
13-May-89	27.4	4.0	0.0	M	8.10	83	1.8	24.3	12.0	63	14	0.57	146	54
14-May-89	29.5	9.5	0.0	M	6.48	185	1.7	25.2	15.8	80	27	1.09	161	63
15-May-89	29.9	-4.1	0.0	M	6.60	204	1.6	25.4	M	90	27	1.09	169	66
16-May-89	29.5	0.5	0.0	M	6.65	176	3.9	24.9	M	85	31	1.21	180	71
17-May-89	21.0	11.7	0.0	M	1.35	174	4.3	21.2	12.1	95	47	1.58	192	78
18-May-89	24.6	6.5	21.3	M	5.00	179	3.6	20.7	4.1	97	64	1.75	203	83
19-May-89	18.9	8.5	7.9	M	1.34	188	3.2	17.3	13.6	96	90	1.56	212	87
20-May-89	20.5	5.2	2.0	M	7.39	246	5.8	18.7	10.0	97	37	0.98	220	90
21-May-89	24.6	6.0	0.0	M	8.08	186	3.1	23.5	10.5	86	26	0.94	231	95
22-May-89	25.5	8.2	7.9	M	5.88	209	3.1	22.7	14.2	85	17	1.05	244	102
23-May-89	23.9	6.5	6.4	M	7.22	16	2.3	23.7	13.0	91	34	1.08	254	107
24-May-89	18.6	10.0	2.3	M	2.65	97	4.1	18.3	13.6	96	65	1.21	264	112
25-May-89	15.9	3.1	26.7	M	4.87	259	6.5	14.6	10.5	96	55	0.99	269	112
26-May-89	14.2	3.1	0.0	M	7.13	315	3.6	17.9	8.3	96	43	0.75	274	112
27-May-89	21.8	-0.2	2.3	M	8.30	192	4.5	21.6	8.7	96	40	0.89	280	112
28-May-89	17.8	9.2	0.0	M	5.86	27	3.8	20.2	14.3	93	46	1.11	289	116
29-May-89	14.9	5.8	1.5	M	5.43	49	4.5	18.5	11.8	76	42	0.78	295	116
30-May-89	19.6	7.5	0.0	M	5.25	159	1.6	21.9	12.7	91	39	0.92	304	120
31-May-89	21.9	10.5	2.5	M	6.14	240	2.8	23.7	14.0	84	42	1.07	316	126
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	21.1	4.9	87.1	M	5.45	175	3.5	18.1	M	81	36	0.89	275	122

## ROSEAU

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Jun-89	24.2	6.9	0.0	M	7.48	222	4.9	23.8	14.3	93	41	1.14	327	131
02-Jun-89	20.7	8.7	0.0	M	5.91	318	3.7	22.8	16.1	94	35	1.19	337	136
03-Jun-89	22.9	1.2	0.0	M	7.62	307	3.8	23.2	13.1	94	24	0.73	345	138
04-Jun-89	17.3	0.4	0.0	M	6.75	247	2.2	22.5	12.4	89	34	0.68	349	138
05-Jun-89	21.9	8.1	5.1	M	6.90	317	2.0	23.8	14.8	95	31	1.08	360	143
06-Jun-89	21.7	4.7	0.0	M	2.65	89	3.6	18.6	14.1	95	59	1.26	368	146
07-Jun-89	12.6	8.2	15.2	M	1.71	48	6.9	14.7	11.1	95	82	1.16	374	147
08-Jun-89	17.8	6.1	0.0	M	8.36	50	3.2	21.0	10.1	96	44	0.92	382	149
09-Jun-89	22.2	1.4	0.0	M	8.80	244	1.4	25.4	10.8	98	34	0.91	389	151
10-Jun-89	24.1	4.6	0.0	M	7.77	163	1.5	26.0	14.3	95	39	1.12	399	155
11-Jun-89	25.8	7.9	0.0	M	4.39	151	3.1	23.2	16.0	95	53	1.47	412	162
12-Jun-89	17.4	10.1	11.9	M	1.39	228	3.6	18.8	14.8	96	92	1.54	421	166
13-Jun-89	14.1	6.1	0.0	M	2.06	50	6.3	14.8	12.2	97	78	1.18	427	166
14-Jun-89	21.2	1.2	0.0	M	8.84	105	1.4	22.9	8.9	100	36	0.97	433	167
15-Jun-89	25.6	6.7	0.0	M	8.60	238	1.1	27.2	13.9	96	35	1.16	445	173
16-Jun-89	25.4	6.4	0.0	M	8.70	180	2.2	27.6	16.2	96	40	1.27	457	179
17-Jun-89	27.1	8.0	0.0	M	6.75	200	3.2	26.3	17.2	94	44	1.41	470	186
18-Jun-89	27.5	11.2	0.0	M	8.36	250	2.8	28.1	18.3	97	34	1.48	485	196
19-Jun-89	30.2	9.1	0.0	M	8.50	171	2.9	29.7	18.6	93	40	1.61	500	205
20-Jun-89	29.1	19.4	0.0	M	4.55	157	5.1	26.4	21.9	93	55	1.92	520	220
21-Jun-89	21.0	15.0	88.4	M	2.26	353	3.0	22.8	19.1	95	88	1.90	533	228
22-Jun-89	24.1	12.3	4.1	M	8.26	279	2.1	26.3	16.5	92	50	1.56	547	236
23-Jun-89	22.4	14.1	0.0	M	7.48	286	1.7	27.2	18.8	92	57	1.61	561	244
24-Jun-89	26.2	7.8	0.0	M	6.64	172	2.2	27.9	17.5	98	44	1.47	573	251
25-Jun-89	24.6	13.9	5.6	M	4.98	63	1.8	23.6	18.1	95	62	1.74	588	260
26-Jun-89	20.4	12.6	4.1	M	6.21	234	4.5	22.8	17.6	95	62	1.52	600	267
27-Jun-89	23.9	10.1	0.0	M	7.70	271	2.9	26.9	15.3	95	54	1.47	613	274
28-Jun-89	25.1	9.9	0.0	M	8.17	102	3.6	27.7	17.5	95	57	1.61	626	281
29-Jun-89	26.7	13.9	0.0	M	5.14	88	3.5	25.7	19.4	95	73	1.82	642	292
30-Jun-89	31.5	14.2	6.1	M	8.04	359	1.9	31.0	19.2	96	50	2.07	660	305
	MEAN 23.2	MEAN 8.7	TOTL 140.5	TOTL M	MEAN 6.37	MEAN 198	MEAN 3.1	MEAN 24.3	MEAN 15.6	MEAN 95	MEAN 51	MEAN 1.37	TOTL 344	TOTL 175

01-Jul-89	30.5	13.6	0.0	M	8.44	159	2.5	32.1	21.2	96	54	2.17	678	317
02-Jul-89	27.6	16.4	21.1	M	3.44	201	2.8	27.4	22.0	94	74	2.15	695	329
03-Jul-89	26.3	14.8	0.0	M	8.64	260	3.0	29.3	18.6	94	55	1.81	711	339
04-Jul-89	31.5	10.7	0.0	M	8.35	173	2.7	32.1	19.8	96	47	2.00	728	350
05-Jul-89	26.6	18.2	4.6	M	3.39	86	3.8	27.2	23.0	94	79	2.46	746	363
06-Jul-89	24.9	14.1	0.8	M	8.35	332	2.4	29.1	19.7	95	54	1.75	761	372
07-Jul-89	27.0	8.0	0.0	M	8.35	187	1.7	31.7	18.8	96	48	1.58	774	380
08-Jul-89	27.9	13.5	0.0	M	5.33	201	1.8	29.4	21.6	92	60	1.99	791	391
09-Jul-89	28.1	15.6	0.0	M	7.24	281	2.3	31.7	22.1	95	68	2.20	808	402
10-Jul-89	26.0	13.9	0.0	M	5.72	332	1.2	30.6	21.9	94	56	1.84	824	412
11-Jul-89	25.0	15.0	0.0	M	6.26	64	2.6	30.4	22.2	95	77	1.99	839	422
12-Jul-89	26.8	12.3	0.0	M	6.40	3	1.8	31.3	21.9	96	59	1.87	854	432
13-Jul-89	27.8	10.9	11.4	M	7.78	21	0.9	32.5	21.2	96	41	1.60	869	441
14-Jul-89	28.3	10.7	0.0	M	6.26	338	1.2	30.9	21.6	96	41	1.61	884	451
15-Jul-89	28.9	12.4	10.2	M	7.24	297	1.6	29.7	19.5	94	41	1.71	900	461
16-Jul-89	30.1	11.7	0.0	M	7.80	75	1.1	32.5	20.6	95	39	1.75	917	472
17-Jul-89	30.3	14.0	0.0	M	7.05	205	1.7	32.1	22.7	94	39	1.74	934	484
18-Jul-89	28.4	13.7	0.0	M	7.42	27	2.1	31.4	22.2	95	53	1.94	951	495
19-Jul-89	31.1	13.8	0.0	M	7.54	88	0.6	33.8	22.9	94	36	1.82	969	508
20-Jul-89	32.5	12.1	0.0	M	7.59	270	0.9	34.2	23.3	95	34	1.77	987	520
21-Jul-89	33.5	13.3	0.0	M	7.17	171	1.6	33.4	24.1	94	35	1.85	1006	534
22-Jul-89	32.0	14.5	0.0	M	6.54	195	2.1	32.2	24.1	93	41	1.99	1025	547
23-Jul-89	30.2	13.4	0.0	M	6.61	187	2.6	31.2	23.7	95	47	1.98	1042	559
24-Jul-89	31.7	16.1	0.0	M	6.16	189	3.1	31.7	23.9	94	45	2.12	1062	573
25-Jul-89	34.5	19.1	0.0	M	7.42	184	4.5	33.0	24.4	90	40	2.24	1084	589
26-Jul-89	28.7	16.5	0.0	M	6.96	306	3.0	32.8	25.4	89	47	2.00	1102	602
27-Jul-89	21.0	11.1	0.0	M	3.95	20	2.7	27.9	22.8	95	64	1.46	1114	608
28-Jul-89	22.2	13.4	0.0	M	3.20	121	2.6	24.9	21.3	92	65	1.61	1127	616
29-Jul-89	25.0	14.7	0.0	M	4.16	128	2.8	26.4	20.5	94	71	1.91	1143	626
30-Jul-89	28.1	15.9	0.0	M	4.28	313	1.3	28.3	22.1	93	54	1.98	1160	638
31-Jul-89	31.4	11.2	0.0	M	4.95	207	2.1	28.7	21.1	95	46	1.90	1177	649
	MEAN 28.5	MEAN 13.7	TOTL 48.0	TOTL M	MEAN 6.45	MEAN 181	MEAN 2.2	MEAN 30.6	MEAN 21.9	MEAN 94	MEAN 52	MEAN 1.90	TOTL 517	TOTL 344



## ROSEAU

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Aug-89	37.8	19.0	0.0	M	6.96	211	4.6	32.0	22.8	89	28	2.13	1201	667
02-Aug-89	35.6	20.7	0.0	M	5.80	185	5.1	31.8	24.7	88	44	2.54	1225	686
03-Aug-89	35.3	16.3	32.3	M	6.03	285	2.5	31.7	23.5	93	41	2.33	1246	701
04-Aug-89	29.1	15.5	0.0	M	6.75	242	3.9	28.8	20.6	94	40	1.77	1264	714
05-Aug-89	17.2	8.3	0.0	M	1.60	311	4.4	23.7	16.5	94	80	1.42	1272	717
06-Aug-89	22.5	6.0	0.0	M	6.89	324	3.2	25.0	13.8	96	41	1.13	1282	721
07-Aug-89	25.1	8.5	0.0	M	6.73	312	2.4	27.1	16.1	94	40	1.26	1294	728
08-Aug-89	27.6	10.5	0.0	M	6.71	289	1.7	29.1	18.0	90	38	1.39	1309	737
09-Aug-89	30.6	9.3	0.0	M	7.15	143	1.4	30.6	19.3	94	22	1.33	1325	747
10-Aug-89	32.5	10.1	0.0	M	6.90	157	1.8	31.0	20.3	93	16	1.36	1341	758
11-Aug-89	32.3	14.5	0.0	M	5.82	156	2.0	30.9	22.1	89	36	1.74	1360	771
12-Aug-89	30.0	14.1	0.0	M	5.56	163	2.0	28.7	21.8	93	50	1.97	1378	783
13-Aug-89	23.8	13.7	0.0	M	4.56	14	3.7	27.0	21.1	95	71	1.82	1392	792
14-Aug-89	21.5	10.9	0.0	M	4.12	7	3.0	25.6	20.3	94	62	1.54	1404	798
15-Aug-89	25.0	5.6	0.0	M	7.06	322	1.2	28.6	17.5	96	36	1.17	1415	804
16-Aug-89	27.8	6.7	0.0	M	6.61	M	2.5	31.1	16.7	M	M	M	1428	811
17-Aug-89 *	27.2	10.6	0.0	M	M	M	M	M	M	M	M	M	1442	820
18-Aug-89	22.2	13.3	0.0	M	0.03	47	1.8	23.2	19.6	94	75	0.22	1455	827
19-Aug-89	22.2	13.3	47.2	M	3.52	311	2.8	23.2	19.6	94	75	1.72	1469	835
20-Aug-89	14.6	9.7	0.0	M	2.22	299	2.1	19.6	16.4	93	82	1.28	1476	837
21-Aug-89	24.0	5.5	0.0	M	4.33	137	2.0	22.2	13.8	97	55	1.44	1487	842
22-Aug-89	27.3	10.4	0.0	M	6.11	97	1.3	27.9	16.8	96	48	1.70	1501	851
23-Aug-89	28.7	11.1	0.0	M	6.38	144	3.0	28.7	18.7	94	43	1.68	1517	861
24-Aug-89	29.1	15.3	0.0	M	6.09	153	5.6	28.4	20.3	91	58	1.96	1534	873
25-Aug-89	25.5	15.2	10.9	M	3.13	171	5.4	24.7	20.4	92	68	1.89	1550	883
26-Aug-89	25.1	14.2	0.0	M	4.27	228	3.3	24.2	19.6	93	49	1.82	1565	893
27-Aug-89	23.5	8.3	0.0	M	5.06	268	1.7	24.7	15.4	93	43	1.33	1577	899
28-Aug-89	20.8	13.5	2.5	M	2.02	167	3.3	20.4	17.7	92	78	1.66	1590	906
29-Aug-89	15.0	9.6	0.0	M	1.23	263	5.2	17.7	14.9	94	84	1.35	1597	908
30-Aug-89	18.6	4.8	0.0	M	3.18	69	1.8	18.4	12.2	97	63	1.14	1605	910
31-Aug-89	22.5	7.1	0.0	M	5.74	39	3.4	22.8	13.7	95	49	1.30	1615	915
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	25.8	11.3	93.0	M	4.79	M	2.8	25.4	17.9	M	M	M	438	266

01-Sep-89	22.2	8.0	0.0	M	5.23	344	1.9	23.5	15.3	94	40	1.16	1626	920
02-Sep-89	25.7	4.1	0.0	M	5.00	134	1.4	24.1	14.3	95	34	1.08	1636	925
03-Sep-89	20.4	10.2	0.0	M	1.47	156	3.8	19.4	16.5	93	77	1.53	1647	930
04-Sep-89 *	22.2	13.3	0.0	M	M	M	M	M	M	M	M	M	1661	939
05-Sep-89	27.4	9.5	0.0	M	4.86	181	2.5	23.7	14.6	91	36	1.46	1676	948
06-Sep-89	23.0	15.1	0.0	M	1.62	175	3.4	20.5	17.4	91	74	1.85	1688	954
07-Sep-89	22.6	10.9	0.0	M	4.03	239	4.8	20.9	14.6	87	48	1.29	1698	959
08-Sep-89	20.3	9.3	0.0	M	4.76	263	4.6	21.1	15.0	87	40	1.06	1703	959
09-Sep-89	13.8	4.8	0.0	M	2.66	265	3.5	16.7	13.0	91	68	0.97	1705	959
10-Sep-89	15.4	-2.2	0.0	M	4.11	247	1.5	17.6	9.5	96	39	0.71	1706	959
11-Sep-89	8.9	1.9	18.3	M	1.12	117	2.2	14.2	9.9	94	78	0.81	1709	959
12-Sep-89	13.4	0.3	0.0	M	4.43	265	2.5	14.1	7.1	96	56	0.79	1715	960
13-Sep-89	19.3	2.4	0.0	M	4.69	205	5.6	16.1	7.7	93	34	0.82	1724	964
14-Sep-89	23.7	3.6	0.0	M	5.39	201	2.5	20.3	9.3	89	32	0.92	1737	971
15-Sep-89	26.8	7.0	0.0	M	5.24	187	5.3	20.9	11.9	89	21	0.99	1748	976
16-Sep-89	23.5	7.0	0.0	M	5.16	61	1.8	22.2	13.2	93	42	1.20	1764	986
17-Sep-89	32.2	9.1	0.0	M	4.97	170	5.5	23.4	14.3	92	23	1.47	1781	998
18-Sep-89	30.8	12.7	0.0	M	4.33	190	7.1	24.7	18.7	87	34	1.62	1796	1008
19-Sep-89 *	29.4	10.0	0.0	M	M	M	M	M	M	M	M	M	1808	1014
20-Sep-89	23.1	8.5	0.0	M	1.85	295	3.2	19.8	15.8	91	52	1.37	1813	1014
21-Sep-89	14.6	4.3	0.0	M	1.89	360	2.1	16.2	12.6	94	57	1.00	1813	1014
22-Sep-89	9.2	1.2	0.0	M	3.62	339	6.8	14.0	10.6	88	48	0.57	1814	1014
23-Sep-89	13.4	-2.7	0.0	M	5.04	218	2.5	16.1	7.0	90	23	0.46	1821	1015
24-Sep-89	19.6	2.7	10.2	M	4.49	204	5.9	16.4	8.8	82	30	0.68	1822	1015
25-Sep-89	12.0	-1.0	0.0	M	4.59	320	3.7	16.0	10.1	88	41	0.60	1823	1015
26-Sep-89	15.9	-5.9	0.0	M	4.68	181	2.1	16.0	7.0	89	27	0.52	1834	1021
27-Sep-89	26.0	5.6	5.8	M	4.13	194	6.4	18.3	10.2	70	29	0.87	1843	1024
28-Sep-89	21.1	5.3	0.0	M	4.44	286	3.3	19.7	13.2	66	25	0.78	1848	1024
29-Sep-89	20.7	-1.7	0.0	M	4.40	159	1.8	18.9	10.3	90	22	0.64	1863	1033
30-Sep-89	30.3	8.4	0.0	M	3.92	190	4.4	20.9	12.7	81	24	1.08	1869	1034
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	20.9	5.4	34.3	M	M	M	M	M	M	M	M	M	248	118

## ROSEAU

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 4.4	GDD 10
01-Oct-89	21.8	0.3	0.0	M	1.21	336	5.3	18.0	10.6	90	44	0.90	1869	1034
02-Oct-89	2.2	-3.9	0.8	M	1.92	322	4.5	10.6	7.2	86	46	0.40	1869	1034
03-Oct-89	9.3	-6.8	0.0	M	4.41	255	3.3	11.9	4.9	77	32	0.34	1870	1034
04-Oct-89	15.3	-5.3	0.0	M	3.55	206	3.4	12.5	4.6	91	19	0.41	1871	1034
05-Oct-89	8.6	2.6	4.1	M	0.92	240	3.5	9.7	7.2	92	69	0.77	1871	1034
06-Oct-89	5.5	-3.3	0.0	M	1.54	313	3.1	7.8	4.4	86	56	0.50	1871	1034
07-Oct-89	10.2	-7.1	0.0	M	4.13	267	1.6	10.1	2.1	93	23	0.39	1871	1034
08-Oct-89	11.1	-8.4	0.0	M	3.36	176	1.6	9.7	2.3	94	28	0.39	1873	1034
09-Oct-89	13.1	0.1	1.5	M	2.06	249	3.7	9.9	5.1	93	42	0.76	1877	1034
10-Oct-89	16.6	0.6	0.0	M	2.49	191	4.5	11.1	5.1	95	38	0.74	1884	1035
11-Oct-89	15.4	6.0	1.8	M	2.54	241	4.7	12.9	8.1	67	32	0.68	1889	1035
12-Oct-89	18.8	0.5	0.0	M	3.71	248	4.4	13.9	6.8	58	15	0.44	1893	1035
13-Oct-89	17.5	-1.0	0.0	M	1.83	73	2.8	12.0	6.7	84	30	0.56	1894	1035
14-Oct-89	13.3	-2.5	0.0	M	2.44	78	2.3	11.1	5.3	94	48	0.71	1894	1035
15-Oct-89	6.9	-3.0	1.8	M	0.76	6	4.4	9.1	4.8	94	88	0.73	1894	1035
16-Oct-89	7.2	-7.1	0.0	M	3.14	312	2.0	8.5	2.1	95	44	0.45	1894	1035
17-Oct-89	4.5	-5.1	0.0	M	1.67	355	2.8	7.5	3.9	93	56	0.51	1894	1035
18-Oct-89	7.1	-9.8	0.0	M	3.50	233	1.8	7.6	1.5	94	39	0.36	1894	1035
19-Oct-89	11.0	-9.8	0.0	M	3.55	200	3.5	7.1	1.1	88	25	0.33	1895	1035
20-Oct-89	16.1	-4.9	0.0	M	3.31	113	0.9	10.1	2.3	71	18	0.35	1896	1035
21-Oct-89	18.0	-6.8	0.0	M	2.87	168	2.9	9.9	2.4	87	21	0.46	1904	1037
22-Oct-89	19.5	4.3	0.0	M	2.08	200	2.6	11.0	5.4	59	23	0.49	1910	1037
23-Oct-89	21.1	0.1	0.0	M	2.85	254	2.2	12.7	5.8	77	26	0.62	1916	1038
24-Oct-89	24.6	-3.6	0.0	M	3.00	159	3.1	13.0	4.9	84	15	0.57	1926	1043
25-Oct-89	24.0	6.2	0.0	M	2.55	173	2.9	14.4	8.3	82	40	1.04	1941	1052
26-Oct-89	22.9	15.4	0.0	M	1.19	163	4.8	14.6	12.0	85	57	1.59	1950	1055
27-Oct-89	20.3	5.5	0.0	M	0.50	206	9.6	14.2	9.8	79	54	0.90	1950	1055
28-Oct-89	13.2	-3.1	0.5	M	2.69	271	1.7	12.1	6.5	94	50	0.65	1950	1055
29-Oct-89	6.2	-5.2	0.0	M	1.15	339	2.9	8.9	5.4	93	60	0.54	1950	1055
30-Oct-89	3.6	-8.4	0.0	M	2.43	9	1.5	6.8	2.4	94	48	0.36	1950	1055
31-Oct-89	1.5	-2.6	0.0	M	0.77	8	3.8	5.0	3.2	78	52	0.38	1950	1055
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL	
13.1	-2.1	10.4	M	2.39	205	3.3	10.8	5.2	85	40	0.59	87	22	

## ROSEMOUNT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	7.0	-0.5	2.5	M	5.39	M	5.3	1.7	-0.6	94	72	0.64	0	0
02-Apr-89	4.9	-4.0	0.0	M	0.97	M	3.1	0.1	-0.6	96	61	0.49	0	0
03-Apr-89	9.0	-2.6	2.5	M	5.73	M	4.5	4.6	-0.7	98	88	0.67	0	0
04-Apr-89	16.4	-2.4	0.0	M	1.87	M	2.5	3.1	1.5	100	45	0.80	0	3
05-Apr-89	12.4	1.2	0.0	M	1.78	M	4.6	2.0	0.2	99	74	0.85	0	4
06-Apr-89	9.3	1.1	0.0	M	6.21	M	M	4.6	-0.3	99	70	0.74	0	4
07-Apr-89	11.2	-0.6	0.0	M	6.63	M	3.3	3.9	-0.2	95	40	0.62	0	5
08-Apr-89	10.3	-0.6	0.0	M	4.33	M	4.1	2.6	-0.5	97	34	0.53	0	5
09-Apr-89	9.1	-3.1	0.0	M	5.87	M	2.4	1.3	-0.3	96	47	0.52	0	5
10-Apr-89	1.8	-6.9	0.0	M	5.79	M	6.8	-0.3	-0.8	99	59	0.36	0	5
11-Apr-89	2.4	-7.5	0.0	M	6.81	M	6.8	-0.1	-0.8	72	51	0.31	0	5
12-Apr-89	5.0	-6.5	0.0	M	5.09	M	3.5	1.0	-0.7	85	37	0.37	0	5
13-Apr-89	6.9	-2.1	0.0	M	6.94	M	4.0	2.8	-0.7	88	40	0.47	0	5
14-Apr-89	7.6	-4.9	0.0	M	5.34	M	2.4	4.1	-0.4	89	27	0.39	0	5
15-Apr-89	17.4	-1.3	0.0	M	6.61	M	5.0	5.3	1.5	78	40	0.68	0	9
16-Apr-89	14.5	3.8	0.0	M	6.70	M	5.5	5.6	0.2	90	31	0.62	0	11
17-Apr-89	16.6	-2.7	0.0	M	5.87	M	3.8	8.7	3.7	91	28	0.55	0	14
18-Apr-89	22.6	7.0	0.0	M	6.84	M	5.2	6.6	3.4	94	23	0.75	5	21
19-Apr-89	7.3	-0.6	0.0	M	5.40	M	3.7	5.4	2.2	97	20	0.43	5	21
20-Apr-89	12.5	-1.4	0.0	M	6.79	M	3.8	6.9	0.8	100	40	0.62	5	22
21-Apr-89	21.4	-2.4	0.0	M	5.35	M	3.1	8.9	3.6	80	18	0.49	5	28
22-Apr-89	22.3	5.1	1.5	M	6.80	M	3.3	9.8	5.1	61	33	0.72	9	34
23-Apr-89	21.7	5.5	0.0	M	3.32	M	4.2	8.2	6.4	89	39	0.97	12	40
24-Apr-89	17.0	-0.6	0.0	M	4.93	M	6.4	9.8	6.2	92	59	1.03	12	43
25-Apr-89	23.0	8.4	3.6	M	4.06	M	6.0	10.0	6.7	84	49	1.08	18	50
26-Apr-89	22.5	9.2	11.2	M	3.74	M	4.4	11.7	7.9	92	53	1.14	24	56
27-Apr-89	23.1	5.9	3.6	M	1.95	M	2.8	10.2	7.9	97	62	1.45	28	63
28-Apr-89	17.9	5.5	20.6	M	3.57	M	3.3	10.8	8.3	99	89	1.26	30	66
29-Apr-89	19.1	5.9	28.4	M	0.66	M	5.5	9.4	6.4	97	61	1.23	33	71
30-Apr-89	10.8	1.0	0.0	M	1.59	M	M	6.3	4.9	99	78	0.79	33	71
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	13.4	0.3	73.9	M	4.76	0	M	5.5	2.4	91	49	0.72	33	71
01-May-89	4.9	-0.6	0.0	M	3.73	M	4.6	7.5	4.1	99	93	0.70	33	71
02-May-89	10.6	1.5	0.0	M	4.09	M	2.9	7.1	3.2	95	68	0.74	33	72
03-May-89	10.8	-1.7	0.0	M	6.55	M	1.7	9.4	3.3	98	56	0.70	33	72
04-May-89	15.6	-0.2	8.4	M	7.28	M	2.6	11.3	5.7	95	36	0.69	33	75
05-May-89	20.1	4.1	2.3	M	7.63	M	3.7	9.2	7.7	82	27	0.77	35	80
06-May-89	11.7	6.1	0.0	M	4.64	M	4.1	8.6	5.0	97	77	1.00	35	81
07-May-89	6.8	-3.1	0.0	M	6.07	M	8.4	6.4	3.0	93	46	0.50	35	81
08-May-89	10.7	-4.3	21.1	M	M	M	4.4	11.0	3.1	91	64	0.55	35	81
09-May-89	18.3	-1.8	6.9	M	0.64	M	1.5	8.8	7.1	99	31	0.71	35	85
10-May-89	10.1	1.5	0.0	M	7.89	M	3.7	12.1	5.5	98	68	0.87	35	85
11-May-89	20.0	-0.7	0.0	M	7.85	M	2.0	14.3	7.9	99	42	0.84	35	90
12-May-89	22.6	5.4	0.0	M	8.07	M	2.7	15.2	9.0	93	36	1.03	39	97
13-May-89	23.0	8.5	0.0	M	2.07	M	1.7	14.9	12.5	70	21	0.66	44	103
14-May-89	22.9	11.5	0.0	M	7.74	M	3.5	15.3	10.2	30	15	0.40	52	110
15-May-89	22.6	6.5	0.0	M	6.66	M	2.9	16.5	12.3	77	20	0.76	56	117
16-May-89	24.6	10.4	0.0	M	7.99	M	1.6	17.1	12.6	94	41	1.27	64	124
17-May-89	27.1	9.4	0.0	M	7.48	M	2.2	18.0	13.5	92	35	1.29	72	133
18-May-89	28.6	9.6	11.4	M	6.25	M	3.5	17.7	15.1	92	33	1.31	81	142
19-May-89	28.2	15.1	8.9	M	0.71	M	5.4	16.8	15.1	79	32	1.35	93	154
20-May-89	17.9	12.7	5.1	M	1.87	M	3.5	16.2	14.6	96	74	1.49	98	159
21-May-89	18.0	10.9	0.0	M	8.44	M	3.1	15.7	13.4	94	90	1.60	102	163
22-May-89	22.3	6.0	0.0	M	7.85	M	4.4	16.4	12.1	93	21	0.92	107	170
23-May-89	27.0	4.7	4.3	M	5.68	M	1.8	17.0	14.8	92	18	0.97	112	178
24-May-89	27.0	12.1	27.9	M	7.10	M	3.7	18.4	14.9	95	31	1.38	122	188
25-May-89	29.9	11.0	0.0	M	2.01	M	3.3	18.1	16.4	96	59	1.99	132	198
26-May-89	22.5	13.6	0.3	M	1.06	M	M	17.0	15.1	97	84	1.88	140	206
27-May-89	21.0	11.0	0.0	M	4.29	M	M	15.0	12.5	76	46	1.04	146	212
28-May-89	13.1	4.6	0.0	M	8.63	M	M	14.2	10.6	86	17	0.82	146	214
29-May-89	20.9	2.4	0.0	M	6.54	M	2.1	14.6	12.2	93	34	0.86	148	219
30-May-89	25.4	8.8	7.1	M	0.89	M	5.7	14.3	13.4	77	41	1.14	155	227
31-May-89	17.1	7.3	0.0	M	0.95	M	4.6	13.3	12.1	100	77	1.44	157	230
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	19.4	5.9	103.6	M	5.12	M	M	13.8	10.3	89	46	1.02	124	159

## ROSEMOUNT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	11.8	8.0	0.0	M	3.41	M	3.7	13.3	11.8	100	98	1.26	157	231
02-Jun-89	18.3	8.2	0.0	M	6.97	M	2.3	15.0	12.6	100	61	1.16	161	235
03-Jun-89	22.3	9.7	0.0	M	5.47	M	2.5	15.3	12.4	95	48	1.34	167	242
04-Jun-89	25.7	6.3	0.0	M	7.35	M	2.9	15.4	14.0	92	54	1.38	173	249
05-Jun-89	23.4	10.6	0.0	M	M	M	3.0	14.8	12.8	89	42	1.31	180	256
06-Jun-89	22.4	8.2	0.0	M	8.60	M	3.2	M	M	76	34	0.89	185	263
07-Jun-89	29.3	11.6	1.0	M	M	M	1.9	13.6	M	94	41	1.54	195	273
08-Jun-89	29.4	13.1	0.0	M	M	M	4.4	17.1	M	88	57	1.64	207	284
09-Jun-89	13.4	8.7	0.0	M	2.45	M	3.6	15.9	13.1	99	78	1.17	208	286
10-Jun-89	19.6	7.7	0.0	M	4.24	M	3.1	13.3	12.3	96	62	1.16	211	291
11-Jun-89	24.3	4.7	0.0	M	8.58	M	1.9	14.3	11.0	100	38	1.14	216	298
12-Jun-89	27.4	8.9	7.4	M	5.93	M	4.2	15.2	12.6	90	53	1.57	224	307
13-Jun-89	25.7	13.5	5.1	M	4.35	M	5.1	16.7	14.9	100	63	1.70	234	316
14-Jun-89	18.6	6.2	46.2	M	4.10	M	2.4	15.4	13.7	100	65	1.24	236	321
15-Jun-89	15.0	2.8	0.0	M	2.17	M	4.3	13.5	12.0	100	74	0.98	236	323
16-Jun-89	23.2	10.9	0.0	M	M	M	2.8	M	M	83	39	1.11	243	330
17-Jun-89	29.0	8.6	0.0	M	M	M	3.5	M	M	92	37	1.47	252	340
18-Jun-89	28.8	16.2	0.0	M	4.81	M	3.6	M	M	97	40	1.91	264	352
19-Jun-89	31.0	14.1	0.0	M	5.11	M	3.9	M	M	96	36	1.71	277	364
20-Jun-89	31.8	19.5	0.0	M	M	M	7.2	M	M	76	33	1.59	292	379
21-Jun-89	31.5	22.0	0.0	M	M	M	4.0	M	M	91	54	2.41	309	395
22-Jun-89	22.5	17.2	0.8	M	M	M	2.3	M	M	99	79	2.06	319	405
23-Jun-89	27.5	16.1	0.0	M	3.80	M	M	M	M	88	42	1.67	331	417
24-Jun-89	29.5	12.8	0.0	M	3.55	M	M	M	M	98	37	1.72	342	428
25-Jun-89	28.4	16.8	0.0	M	2.70	M	M	M	M	98	72	2.35	355	440
26-Jun-89	26.1	16.7	31.0	M	3.05	M	M	M	M	100	70	2.19	366	452
27-Jun-89	27.6	11.7	0.0	M	5.45	M	M	M	M	100	42	1.65	376	461
28-Jun-89	27.7	17.8	0.0	M	0.83	M	M	M	M	94	56	2.01	388	474
29-Jun-89	29.4	21.1	0.0	M	3.95	176	6.0	M	M	79	53	2.10	404	489
30-Jun-89	30.6	18.5	27.9	M	3.19	202	4.1	M	M	99	63	2.27	418	504
MEAN	25.0	12.3	TOTL 119.4	TOTL M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN M	MEAN 94	MEAN 54	MEAN 1.59	TOTL 261	TOTL 274

01-Jul-89	31.3	18.5	0.0	M	4.42	202	3.5	M	M	97	60	2.54	433	518
02-Jul-89	31.5	18.6	0.0	M	4.63	190	2.5	M	M	98	64	2.73	448	532
03-Jul-89	33.3	19.5	0.0	M	5.09	346	2.1	M	M	96	36	2.30	464	547
04-Jul-89	32.3	16.2	0.0	M	5.04	155	1.3	M	M	96	43	2.15	479	560
05-Jul-89	33.3	17.2	0.0	M	5.28	173	3.0	M	M	96	48	2.32	494	574
06-Jul-89	33.2	19.3	0.0	M	4.84	332	3.0	M	M	90	53	2.43	510	588
07-Jul-89	29.1	17.7	0.0	M	5.22	30	2.2	M	M	88	39	1.74	524	602
08-Jul-89	31.1	16.0	10.9	M	3.27	140	2.9	M	M	100	72	2.57	537	615
09-Jul-89	35.4	20.3	0.0	M	4.74	160	3.1	M	M	98	69	3.23	555	630
10-Jul-89	33.0	21.9	0.0	M	5.08	52	2.2	M	M	88	56	2.68	572	646
11-Jul-89	28.6	20.8	5.3	M	2.59	94	2.4	M	M	98	75	2.68	587	660
12-Jul-89	29.5	19.0	0.0	M	3.37	36	1.9	M	M	97	63	2.44	601	675
13-Jul-89	26.5	14.5	0.0	M	4.87	50	2.2	M	M	98	49	1.76	612	685
14-Jul-89	28.3	12.1	0.0	M	4.66	88	1.0	M	M	96	42	1.67	622	695
15-Jul-89	29.5	16.2	0.0	M	4.65	121	1.5	M	M	93	40	1.84	635	708
16-Jul-89	29.1	13.9	0.0	M	4.62	237	1.5	M	M	98	44	1.90	646	720
17-Jul-89	33.0	21.9	0.0	M	5.08	52	2.2	M	M	88	56	2.68	664	736
18-Jul-89	28.6	20.8	12.4	M	2.59	94	2.4	M	M	98	75	2.68	679	750
19-Jul-89	29.5	19.0	3.8	M	3.37	36	1.9	M	M	97	63	2.44	693	765
20-Jul-89	26.5	14.5	0.0	M	4.87	50	2.2	M	M	98	49	1.76	703	775
21-Jul-89	28.3	12.1	0.0	M	4.66	88	1.0	M	M	96	42	1.67	714	785
22-Jul-89	29.5	16.2	0.0	M	4.65	121	1.5	M	M	93	40	1.84	727	798
23-Jul-89	29.1	13.9	0.0	M	4.62	237	1.5	M	M	98	44	1.90	738	810
24-Jul-89	28.5	13.6	0.0	M	4.44	178	2.2	M	M	99	52	1.98	749	821
25-Jul-89	25.4	17.0	0.0	M	2.46	89	2.9	M	M	99	72	2.13	760	832
26-Jul-89	28.3	16.0	0.0	M	4.03	13	2.7	M	M	98	50	1.97	772	844
27-Jul-89	29.8	13.9	0.0	M	M	12	1.7	M	M	97	58	2.15	784	856
28-Jul-89	28.7	15.7	0.0	M	M	83	1.7	M	M	97	47	1.92	796	868
29-Jul-89	29.1	13.3	29.0	M	M	83	1.6	M	M	99	47	1.91	808	879
30-Jul-89	30.4	16.5	0.0	M	M	165	1.8	M	M	98	55	2.32	821	893
31-Jul-89	30.8	17.2	0.0	M	M	177	2.3	M	M	98	62	2.47	835	906
MEAN	30.0	16.9	TOTL 61.5	TOTL M	MEAN M	MEAN M	MEAN 2.1	MEAN M	MEAN M	MEAN 96	MEAN 54	MEAN 2.22	TOTL 417	TOTL 402

## ROSEMOUNT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	32.9	18.0	0.0	M	M	185	2.2	M	M	98	59	2.67	851	920
02-Aug-89	32.9	19.6	0.0	M	M	218	2.6	M	M	97	60	2.71	867	935
03-Aug-89	31.8	18.8	0.0	M	M	355	2.5	M	M	95	35	2.15	882	949
04-Aug-89	26.7	15.4	0.0	M	M	104	2.5	M	M	96	63	1.98	893	960
05-Aug-89	22.5	16.9	0.0	M	M	106	2.4	M	M	99	88	2.13	903	970
06-Aug-89	26.0	18.1	0.0	M	M	111	1.2	M	M	97	83	2.35	915	982
07-Aug-89	31.8	17.4	0.0	M	M	193	1.1	M	M	98	64	2.59	929	996
08-Aug-89	31.2	17.9	0.0	M	M	207	2.1	M	M	97	63	2.60	944	1010
09-Aug-89	31.0	17.7	0.0	M	M	186	3.4	M	M	97	67	2.69	958	1024
10-Aug-89	32.8	23.8	0.0	M	M	216	3.5	M	M	95	75	3.28	977	1041
11-Aug-89	35.1	18.8	0.0	M	M	204	1.6	M	M	97	49	2.95	994	1055
12-Aug-89	28.5	18.0	2.0	M	M	300	3.8	M	M	97	46	1.86	1007	1068
13-Aug-89	21.1	11.6	0.0	M	M	357	3.0	M	M	96	43	1.23	1013	1075
14-Aug-89	25.5	7.2	0.0	M	M	330	1.7	M	M	99	37	1.21	1020	1082
15-Aug-89	27.8	11.0	0.0	M	M	280	2.1	M	M	94	33	1.37	1029	1092
16-Aug-89	29.7	9.8	0.0	M	M	210	1.6	M	M	97	34	1.53	1039	1101
17-Aug-89	30.9	11.8	0.0	M	M	199	1.7	M	M	98	39	1.74	1050	1112
18-Aug-89	29.7	12.1	0.0	M	M	203	1.6	M	M	98	41	1.80	1061	1123
19-Aug-89	24.4	14.6	7.9	M	M	178	2.0	M	M	96	71	2.03	1070	1133
20-Aug-89	30.6	17.0	0.0	M	M	212	2.8	M	M	97	58	2.30	1084	1146
21-Aug-89	25.0	16.1	0.0	M	M	2	1.8	M	M	98	75	2.08	1095	1157
22-Aug-89	24.1	11.6	36.8	M	M	15	1.3	M	M	98	63	1.75	1103	1165
23-Aug-89	26.0	11.9	0.0	M	2.10	116	1.0	M	M	98	40	1.42	1112	1174
24-Aug-89	26.9	8.6	0.0	M	4.36	155	1.6	M	M	99	42	1.48	1119	1182
25-Aug-89	27.9	11.1	0.0	M	3.35	166	3.2	M	M	97	47	1.66	1129	1192
26-Aug-89	20.1	16.6	9.7	M	0.78	177	2.9	M	M	97	79	1.92	1137	1200
27-Aug-89	25.2	13.8	0.0	M	3.43	290	2.1	M	M	98	60	1.87	1147	1209
28-Aug-89	29.5	14.0	1.3	M	3.63	126	2.9	M	M	98	63	2.09	1158	1221
29-Aug-89	29.9	19.3	0.0	M	2.38	43	0.7	M	M	96	57	2.45	1173	1236
30-Aug-89	25.0	16.1	9.9	M	5.63	91	2.1	M	M	98	81	2.14	1183	1246
31-Aug-89	24.0	13.3	22.4	M	6.61	115	2.1	M	M	98	64	1.79	1192	1255
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	27.9	15.1	89.9	M	M	182	2	0.0	0.0	97	57	2.06	357	349

01-Sep-89	22.8	12.9	14.7	M	4.28	126	2.3	M	M	98	84	1.98	1200	1263
02-Sep-89	26.2	15.3	0.0	M	3.19	154	1.9	M	M	98	75	2.24	1211	1273
03-Sep-89	27.5	14.5	0.0	M	5.12	54	1.1	M	M	98	58	2.02	1222	1284
04-Sep-89	27.0	17.4	16.3	M	2.86	142	1.7	M	M	97	79	2.29	1234	1297
05-Sep-89	23.7	14.7	0.0	M	6.71	287	3.2	M	M	97	45	1.61	1243	1306
06-Sep-89	20.6	10.6	0.0	M	2.82	97	1.9	M	M	99	74	1.61	1249	1312
07-Sep-89	23.6	16.0	0.0	M	2.34	104	3.0	M	M	98	89	2.25	1259	1321
08-Sep-89	22.6	11.3	0.0	M	4.33	355	2.1	M	M	99	63	1.72	1265	1328
09-Sep-89	24.1	9.0	0.0	M	5.92	170	1.0	M	M	99	57	1.61	1272	1335
10-Sep-89	22.0	12.1	0.0	M	4.68	153	4.1	M	M	96	64	1.61	1279	1342
11-Sep-89	25.0	12.4	0.0	M	4.73	218	3.4	M	M	98	50	1.76	1288	1351
12-Sep-89	26.3	9.8	0.0	M	5.93	188	1.9	M	M	99	49	1.62	1296	1359
13-Sep-89	25.8	13.7	0.0	M	2.56	157	1.9	M	M	99	85	2.24	1306	1369
14-Sep-89	25.5	15.3	0.0	M	3.47	262	2.0	M	M	97	63	2.15	1316	1379
15-Sep-89	24.4	12.1	0.0	M	4.09	317	1.4	M	M	99	56	1.57	1324	1388
16-Sep-89	18.5	7.7	0.0	M	2.91	310	1.8	M	M	98	63	1.38	1327	1392
17-Sep-89	19.2	4.8	0.0	M	5.23	14	1.2	M	M	100	44	1.05	1329	1397
18-Sep-89	14.9	5.1	0.0	M	4.70	276	3.0	M	M	95	45	1.00	1329	1399
19-Sep-89	15.5	3.2	2.8	M	3.00	285	1.4	M	M	99	64	0.99	1329	1402
20-Sep-89	19.4	4.5	1.0	M	1.42	197	0.7	M	M	100	43	0.98	1331	1406
21-Sep-89	20.1	5.9	0.0	M	5.06	216	1.6	M	M	100	44	1.11	1334	1412
22-Sep-89	21.6	3.6	0.0	M	5.15	181	2.2	M	M	100	46	1.11	1337	1417
23-Sep-89	24.1	5.8	0.0	M	4.91	168	2.5	M	M	100	58	1.39	1342	1424
24-Sep-89	27.1	9.4	0.0	M	4.74	158	3.1	M	M	99	58	1.74	1350	1433
25-Sep-89	28.5	15.6	0.0	M	4.79	162	5.3	M	M	96	44	1.88	1362	1445
26-Sep-89	25.8	16.0	0.0	M	1.58	187	3.3	M	M	98	66	1.93	1373	1456
27-Sep-89	24.3	15.5	0.0	M	2.58	151	2.2	M	M	98	67	1.93	1383	1466
28-Sep-89	25.4	12.7	0.0	M	4.07	167	2.9	M	M	97	58	1.76	1392	1475
29-Sep-89	19.4	2.9	0.0	M	3.94	330	4.7	M	M	95	38	1.07	1393	1480
30-Sep-89	12.0	-0.1	0.0	M	4.66	305	1.7	M	M	94	42	0.58	1393	1481
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	22.8	10.3	34.8	M	4.06	196	2.3	M	M	98	59	1.61	201	226

## ROSEMOUNT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	18.3	-1.0	0.0	M	4.68	187	3.8	M	M	95	21	0.55	1393	1485
02-Oct-89	19.0	4.8	5.1	M	4.62	300	3.0	M	M	82	42	0.79	1395	1489
03-Oct-89	16.4	-2.2	0.0	M	4.67	102	0.9	M	M	100	38	0.67	1395	1492
04-Oct-89	22.4	1.9	0.0	M	4.44	175	4.5	M	M	92	21	0.68	1397	1499
05-Oct-89	25.6	12.4	1.5	M	3.80	233	3.9	M	M	64	36	0.97	1406	1508
06-Oct-89	22.9	5.5	0.0	M	4.45	357	1.1	M	M	96	24	0.87	1410	1514
07-Oct-89	26.7	7.3	0.0	M	4.35	177	4.0	M	M	78	22	0.87	1418	1522
08-Oct-89	28.8	7.1	0.0	M	4.03	192	5.7	M	M	98	25	1.21	1425	1532
09-Oct-89	7.1	-1.2	0.0	M	1.78	308	4.5	M	M	94	68	0.65	1425	1532
10-Oct-89	8.9	-3.5	0.0	M	4.41	299	2.2	M	M	89	41	0.45	1425	1532
11-Oct-89	13.1	-6.7	0.0	M	2.99	175	1.2	M	M	100	26	0.54	1425	1533
12-Oct-89	18.4	6.8	0.0	M	2.53	253	4.5	M	M	98	50	1.03	1428	1538
13-Oct-89	10.9	0.5	0.0	M	4.02	304	3.8	M	M	90	45	0.62	1428	1538
14-Oct-89	11.1	-2.4	0.0	M	3.81	281	1.9	M	M	97	34	0.49	1428	1539
15-Oct-89	13.2	-5.1	0.0	M	3.97	68	0.9	M	M	100	28	0.46	1428	1540
16-Oct-89	17.8	-3.3	1.5	M	2.21	213	2.3	M	M	95	47	0.70	1428	1544
17-Oct-89	16.3	2.4	0.0	M	3.48	243	2.5	M	M	99	43	0.82	1428	1547
18-Oct-89	25.1	7.4	0.0	M	3.58	231	4.2	M	M	77	31	0.89	1434	1555
19-Oct-89	22.3	0.3	0.0	M	3.75	217	3.1	M	M	90	17	0.57	1436	1561
20-Oct-89	23.8	5.6	0.0	M	2.72	97	1.5	M	M	79	28	0.80	1440	1568
21-Oct-89	23.4	5.4	0.0	M	3.26	38	1.7	M	M	97	29	0.89	1445	1574
22-Oct-89	18.3	8.2	0.0	M	2.26	357	2.7	M	M	97	47	0.87	1448	1579
23-Oct-89	8.6	1.1	0.0	M	1.88	2	4.5	M	M	95	71	0.68	1448	1579
24-Oct-89	8.4	-3.0	0.0	M	2.51	356	2.7	M	M	88	44	0.47	1448	1579
25-Oct-89	7.6	-5.3	0.0	M	2.65	8	1.7	M	M	97	40	0.42	1448	1579
26-Oct-89	8.1	-7.5	0.0	M	3.55	354	1.7	M	M	94	39	0.39	1448	1579
27-Oct-89	13.2	-4.4	0.0	M	3.20	286	2.3	M	M	89	22	0.38	1448	1580
28-Oct-89	18.5	-2.6	0.0	M	3.50	245	0.9	M	M	76	20	0.44	1448	1584
29-Oct-89	22.4	0.6	7.4	M	2.76	170	4.1	M	M	68	27	0.67	1449	1591
30-Oct-89	25.6	5.6	0.0	M	3.05	216	1.2	M	M	91	25	0.86	1455	1598
31-Oct-89	26.3	2.6	0.0	M	3.00	170	2.6	M	M	98	38	1.14	1459	1607
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	17.7	1.2	15.5	M	3.42	213	2.8	M	M	90	35	0.70	66	42

## ST PAUL

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	6.1	-3.3	2.0	M	1.27	M	3.8	M	M	M	M	M	0	0
02-Apr-89	15.0	1.1	0.0	M	5.77	M	2.0	M	M	M	M	M	0	3
03-Apr-89	14.4	5.0	9.7	M	1.09	M	4.0	M	M	M	M	M	0	5
04-Apr-89	9.4	0.6	1.5	M	2.36	M	4.2	M	M	M	M	M	0	5
05-Apr-89	11.1	-1.1	0.0	M	6.24	M	3.0	M	M	M	M	M	0	5
06-Apr-89	11.1	-1.1	0.0	M	6.71	M	3.1	7.8	2.0	M	M	M	0	6
07-Apr-89	8.9	-2.8	0.0	M	5.36	M	2.0	6.3	0.2	M	M	M	0	6
08-Apr-89	7.2	-6.7	0.3	M	5.82	M	5.8	3.0	0.4	M	M	M	0	6
09-Apr-89	1.7	-8.9	0.0	M	5.60	M	6.1	0.5	-0.3	M	M	M	0	6
10-Apr-89	4.4	-7.2	0.0	M	6.97	M	3.4	1.5	-0.3	M	M	M	0	6
11-Apr-89	6.1	-0.6	0.0	M	5.93	M	3.8	6.0	-0.2	M	M	M	0	6
12-Apr-89	6.7	-5.0	0.0	M	6.97	M	1.5	7.3	0.1	M	M	M	0	6
13-Apr-89	16.7	0.6	0.0	M	5.72	M	4.1	7.5	0.7	M	M	M	0	9
14-Apr-89	16.7	3.9	0.0	M	6.37	M	5.7	8.2	2.8	M	M	M	0	12
15-Apr-89	16.1	-2.8	0.0	M	6.96	M	3.0	9.4	0.8	M	M	M	0	16
16-Apr-89	22.2	10.6	0.0	M	6.07	M	3.6	14.2	5.3	M	M	M	7	22
17-Apr-89	21.7	-3.3	1.5	M	7.01	M	3.0	10.6	3.6	M	M	M	7	28
18-Apr-89	12.2	-1.7	0.5	M	5.34	M	3.3	8.6	2.4	M	M	M	7	29
19-Apr-89	20.6	-0.6	0.0	M	5.74	M	2.4	12.0	1.2	M	M	M	7	34
20-Apr-89	21.1	6.7	0.0	M	5.32	M	3.1	14.5	4.8	M	M	M	11	40
21-Apr-89	21.1	4.4	0.0	M	6.87	M	3.6	16.1	5.7	M	M	M	13	45
22-Apr-89	21.1	6.1	2.0	M	4.59	M	5.2	12.8	8.1	M	M	M	17	51
23-Apr-89	21.1	6.7	1.5	M	5.09	M	4.9	14.9	7.3	M	M	M	21	56
24-Apr-89	21.1	8.9	0.0	7.6	5.27	M	2.8	16.1	8.5	M	M	M	26	62
25-Apr-89	21.7	11.1	10.7	4.3	3.37	M	1.5	15.7	10.6	M	M	M	32	68
26-Apr-89	20.0	6.7	16.0	4.3	2.89	M	2.2	13.1	8.4	M	M	M	36	73
27-Apr-89	17.8	8.3	1.3	2.5	3.33	M	4.2	12.4	8.7	M	M	M	39	77
28-Apr-89	17.8	4.4	9.4	2.5	1.02	M	4.1	9.4	6.1	M	M	M	40	81
29-Apr-89	5.6	2.2	14.5	0.0	1.70	M	3.2	6.8	4.6	M	M	M	40	81
30-Apr-89	7.8	0.6	0.3	1.5	3.41	M	2.1	8.7	3.5	M	M	M	40	81

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
14.1	1.4	71.1	M	4.87	M	3.5	M	M	M	M	M	M	40	81

01-May-89	9.4	-1.1	0.0	2.0	4.52	M	0.8	9.1	2.7	M	M	M	40	81
02-May-89	15.0	0.6	0.0	3.0	5.83	M	2.0	11.8	3.2	M	M	M	40	84
03-May-89	19.4	6.1	0.0	6.1	7.51	M	3.0	16.2	5.6	M	M	M	42	88
04-May-89	20.0	8.9	8.9	4.3	1.92	M	3.4	11.4	8.9	M	M	M	47	93
05-May-89	12.2	0.0	0.8	5.1	6.13	M	7.4	9.1	4.0	M	M	M	47	94
06-May-89	9.4	-5.0	0.0	2.5	4.16	M	3.2	8.7	1.8	M	M	M	47	94
07-May-89	17.8	0.0	0.0	2.8	7.94	M	0.9	16.5	3.0	M	M	M	47	98
08-May-89	18.9	6.7	19.0	1.3	1.46	M	3.1	11.3	6.7	M	M	M	50	103
09-May-89	19.4	1.7	4.6	2.8	7.34	M	1.1	16.5	4.4	M	M	M	50	107
10-May-89	22.2	9.4	0.0	6.1	7.79	M	2.3	18.4	8.9	M	M	M	56	114
11-May-89	22.8	7.2	0.0	7.1	8.20	M	1.1	21.5	9.5	M	M	M	61	120
12-May-89	23.3	6.7	0.0	6.1	8.43	M	2.0	22.5	10.9	M	M	M	66	127
13-May-89	23.9	7.8	0.0	9.1	8.33	M	2.0	23.2	11.9	M	M	M	72	134
14-May-89	23.9	11.7	0.0	6.1	7.25	M	0.8	24.8	14.6	M	M	M	80	141
15-May-89	27.2	13.3	0.0	6.1	8.01	M	1.3	26.9	15.6	M	M	M	90	152
16-May-89	28.3	13.3	0.0	9.9	8.02	M	3.0	26.9	17.1	M	M	M	101	162
17-May-89	28.3	16.1	0.0	14.5	6.65	M	4.9	25.6	18.3	M	M	M	113	175
18-May-89	27.2	13.9	10.9	5.6	1.22	M	2.2	21.4	16.2	M	M	M	124	185
19-May-89	21.7	13.9	1.8	0.5	2.72	M	1.9	20.0	15.3	M	M	M	131	193
20-May-89	23.3	5.6	1.0	7.1	7.93	M	4.2	21.2	13.2	M	M	M	136	200
21-May-89	27.2	9.4	0.0	8.4	8.52	M	1.3	25.9	13.1	M	M	M	144	208
22-May-89	27.2	15.6	0.0	9.7	7.81	M	3.1	27.2	17.7	M	M	M	156	220
23-May-89	29.4	13.9	11.2	2.5	7.08	M	2.1	25.2	17.4	M	M	M	167	231
24-May-89	28.9	16.7	7.9	6.1	2.08	M	3.6	21.0	17.2	M	M	M	180	244
25-May-89	23.3	9.4	5.6	4.1	6.32	M	4.0	19.9	13.8	M	M	M	186	251
26-May-89	21.1	7.2	0.0	7.1	4.57	M	5.6	16.0	12.2	M	M	M	191	256
27-May-89	21.1	5.6	0.0	4.6	8.40	M	1.8	22.7	10.1	M	M	M	194	262
28-May-89	25.0	10.6	0.0	9.4	7.48	M	4.5	23.1	14.3	M	M	M	202	270
29-May-89	25.0	11.1	9.9	2.0	2.28	M	3.6	19.2	13.2	M	M	M	210	278
30-May-89	13.9	7.2	4.8	0.8	1.17	M	2.7	13.7	11.8	M	M	M	210	280
31-May-89	18.3	8.9	0.3	1.5	3.02	M	1.1	16.8	11.5	M	M	M	214	284

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
21.8	8.1	86.6	164.3	5.81	M	2.7	19.2	11.1	M	M	M	M	174	203

## ST PAUL

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	22.2	11.7	0.0	4.1	6.78	M	2.1	20.8	13.2	M	M	M	221	291
02-Jun-89	25.0	10.6	0.0	5.6	5.62	M	2.2	22.4	13.7	M	M	M	229	299
03-Jun-89	25.6	11.7	0.0	7.6	7.35	M	2.0	24.9	15.6	M	M	M	237	307
04-Jun-89	22.2	11.7	0.0	9.4	9.02	M	2.4	25.8	15.3	M	M	M	244	314
05-Jun-89	27.2	11.1	0.0	10.2	7.28	M	2.6	24.8	16.3	M	M	M	253	323
06-Jun-89	27.2	13.9	0.0	6.3	7.84	M	1.4	29.6	17.6	M	M	M	264	334
07-Jun-89	29.4	20.0	3.3	10.2	4.95	M	3.4	25.4	18.6	M	M	M	279	349
08-Jun-89	23.9	6.7	0.0	4.6	2.50	M	2.5	18.6	14.3	M	M	M	284	356
09-Jun-89	18.3	7.8	0.0	2.8	4.41	M	2.0	20.2	12.9	M	M	M	287	360
10-Jun-89	23.9	7.8	0.0	5.1	8.65	M	1.3	26.2	13.4	M	M	M	293	367
11-Jun-89	26.1	13.3	0.0	7.1	7.08	M	3.4	25.8	16.8	M	M	M	302	376
12-Jun-89	25.0	15.6	13.2	1.3	3.89	M	4.4	21.9	16.9	M	M	M	313	387
13-Jun-89	23.3	9.4	0.3	4.8	3.51	M	1.8	17.7	14.1	M	M	M	319	393
14-Jun-89	16.7	6.7	14.2	2.0	3.14	M	2.9	15.5	12.3	M	M	M	321	397
15-Jun-89	21.1	5.6	0.0	3.6	8.63	M	1.0	21.3	10.3	M	M	M	324	402
16-Jun-89	22.8	10.0	0.0	6.9	8.79	M	0.8	26.5	14.8	M	M	M	331	409
17-Jun-89	28.3	11.7	0.0	7.6	8.57	M	1.7	27.7	16.3	M	M	M	341	419
18-Jun-89	30.0	17.8	0.0	7.4	6.24	M	1.6	28.7	20.2	M	M	M	354	432
19-Jun-89	30.6	16.1	0.0	7.4	8.67	M	1.8	31.8	20.2	M	M	M	368	446
20-Jun-89	32.2	20.6	0.0	14.7	8.04	M	5.8	30.5	22.9	M	M	M	384	461
21-Jun-89	32.2	20.6	0.0	10.7	4.97	M	4.7	28.2	23.4	M	M	M	401	476
22-Jun-89	30.6	17.2	1.3	2.8	2.89	M	1.2	25.5	21.6	M	M	M	414	490
23-Jun-89	27.2	16.7	0.3	5.3	7.27	M	1.5	29.5	20.2	M	M	M	426	502
24-Jun-89	28.9	13.9	0.0	7.1	6.71	M	1.2	30.0	20.7	M	M	M	438	513
25-Jun-89	27.2	16.7	9.4	4.8	3.39	M	1.9	25.0	20.9	M	M	M	450	525
26-Jun-89	27.8	16.1	20.3	2.5	6.03	M	2.4	24.9	20.0	M	M	M	462	537
27-Jun-89	27.8	13.9	0.0	8.1	8.79	M	1.7	28.6	17.6	M	M	M	472	548
28-Jun-89	27.8	15.6	0.0	8.4	8.75	M	2.6	30.3	20.1	M	M	M	484	559
29-Jun-89	28.3	17.8	0.0	10.2	8.42	M	4.6	30.4	21.8	M	M	M	497	572
30-Jun-89	29.4	17.2	21.8	7.1	5.64	M	2.5	27.5	22.7	M	M	M	511	586
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	26.3	13.5	84.1	195.6	6.46	M	2.4	25.5	17.5	M	M	M	297	302
01-Jul-89	30.6	17.8	10.7	7.6	6.69	M	1.6	27.9	20.9	M	M	M	525	600
02-Jul-89	31.1	20.0	0.0	8.1	7.66	M	1.9	31.8	22.4	M	M	M	540	615
03-Jul-89	32.2	23.3	0.0	10.2	8.41	M	2.0	34.6	24.6	M	M	M	558	631
04-Jul-89	32.8	17.2	0.0	8.6	8.10	M	0.8	35.1	24.6	M	M	M	573	645
05-Jul-89	34.4	20.6	0.0	10.9	8.73	M	3.0	35.2	25.4	M	M	M	591	660
06-Jul-89	34.4	21.7	0.0	11.4	8.26	M	2.4	35.7	26.4	M	M	M	609	676
07-Jul-89	31.7	17.8	0.0	10.2	8.26	M	1.5	34.7	25.5	M	M	M	623	690
08-Jul-89	31.7	16.1	10.2	7.1	6.75	M	2.5	29.3	24.1	M	M	M	637	703
09-Jul-89	35.0	20.6	0.0	7.4	7.44	M	2.7	33.0	23.9	M	M	M	655	718
10-Jul-89	35.6	20.6	0.0	10.2	8.19	M	1.8	35.7	25.4	M	M	M	673	734
11-Jul-89	31.7	21.1	0.0	6.6	4.41	M	1.9	30.8	26.6	M	M	M	689	749
12-Jul-89	28.3	17.2	0.0	6.1	6.29	M	1.1	33.0	24.7	M	M	M	702	762
13-Jul-89	28.3	16.7	0.0	8.1	7.84	M	1.6	32.5	24.7	M	M	M	715	774
14-Jul-89	27.2	13.3	0.0	6.3	6.86	M	0.5	31.6	23.0	M	M	M	725	785
15-Jul-89	28.3	15.6	0.0	7.1	7.23	M	0.8	33.1	23.2	M	M	M	737	797
16-Jul-89	29.4	16.1	0.0	6.1	6.48	M	0.8	32.6	23.6	M	M	M	750	809
17-Jul-89	29.4	17.8	0.0	8.9	7.52	M	2.0	32.8	24.6	M	M	M	763	823
18-Jul-89	28.9	17.2	30.5	2.0	4.02	M	1.9	28.3	22.2	M	M	M	776	836
19-Jul-89	26.7	14.4	14.7	6.1	6.15	M	1.9	26.2	19.6	M	M	M	787	847
20-Jul-89	27.8	15.0	0.0	6.1	6.55	M	1.1	29.1	20.1	M	M	M	798	858
21-Jul-89	28.3	16.1	0.0	6.3	7.62	M	0.8	32.5	22.0	M	M	M	811	870
22-Jul-89	28.9	15.6	0.0	6.1	8.06	M	1.2	32.9	22.9	M	M	M	823	882
23-Jul-89	30.0	18.3	0.0	6.9	6.92	M	1.5	32.7	24.4	M	M	M	837	897
24-Jul-89	30.0	18.9	0.0	7.6	6.27	M	1.8	32.2	24.8	M	M	M	851	911
25-Jul-89	31.7	20.0	0.0	6.9	6.12	M	1.6	32.6	25.1	M	M	M	867	926
26-Jul-89	30.6	22.2	0.0	7.6	6.33	M	1.8	33.5	26.1	M	M	M	884	942
27-Jul-89	31.1	22.2	0.0	9.4	7.99	M	2.4	35.0	26.5	M	M	M	900	958
28-Jul-89	29.4	15.0	0.0	8.6	7.50	M	2.6	32.9	24.5	M	M	M	912	971
29-Jul-89	27.2	16.7	28.4	7.4	2.28	M	2.2	27.9	22.2	M	M	M	924	982
30-Jul-89	25.6	16.7	0.0	2.0	4.11	M	0.5	26.3	21.2	M	M	M	936	994
31-Jul-89	30.0	17.8	0.0	2.8	4.73	M	0.3	28.5	21.6	M	M	M	949	1007
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.3	18.0	94.5	226.8	6.77	M	1.6	31.9	23.8	M	M	M	438	421



## ST PAUL

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	30.6	19.4	0.0	6.1	7.08	M	1.5	32.5	22.5	M	M	M	964	1022
02-Aug-89	30.6	20.0	0.0	8.9	7.09	M	3.2	32.2	24.3	M	M	M	980	1037
03-Aug-89	31.7	24.4	0.0	8.4	5.71	M	2.4	33.0	26.2	M	M	M	998	1054
04-Aug-89	33.9	23.3	0.0	5.1	5.13	M	1.2	32.9	26.7	M	M	M	1016	1071
05-Aug-89	32.8	18.3	0.0	10.2	7.14	M	3.9	31.6	24.7	M	M	M	1032	1085
06-Aug-89	25.0	11.1	0.0	8.4	5.81	M	2.9	27.6	22.2	M	M	M	1040	1093
07-Aug-89	24.4	9.4	0.0	3.8	7.48	M	1.6	29.2	19.3	M	M	M	1047	1101
08-Aug-89	27.8	13.3	0.0	4.6	7.14	M	1.3	30.1	20.8	M	M	M	1057	1111
09-Aug-89	29.4	13.3	0.0	4.6	7.13	M	0.9	31.3	21.1	M	M	M	1069	1122
10-Aug-89	30.6	14.4	0.0	4.8	7.11	M	1.3	31.9	22.7	M	M	M	1081	1135
11-Aug-89	30.6	15.6	0.0	4.8	6.89	M	1.2	31.9	23.1	M	M	M	1094	1147
12-Aug-89	29.4	18.3	1.3	5.1	2.83	M	1.6	27.4	23.2	M	M	M	1108	1161
13-Aug-89	29.4	20.0	0.0	4.1	6.80	M	1.5	31.3	21.6	M	M	M	1123	1176
14-Aug-89	29.4	15.6	22.1	5.1	3.90	M	1.6	25.6	21.6	M	M	M	1136	1189
15-Aug-89	22.2	13.9	0.0	4.3	5.24	M	0.7	25.6	19.8	M	M	M	1144	1197
16-Aug-89	25.6	11.7	0.0	3.8	6.26	M	0.3	28.2	18.2	M	M	M	1152	1205
17-Aug-89	26.7	12.8	0.0	7.1	6.94	M	1.5	29.2	19.5	M	M	M	1162	1215
18-Aug-89	27.8	15.0	0.0	8.1	6.69	M	3.4	29.2	20.8	M	M	M	1173	1226
19-Aug-89	26.7	16.7	3.0	5.3	2.06	M	2.5	24.8	21.0	M	M	M	1185	1238
20-Aug-89	25.0	15.0	0.0	4.6	5.64	M	2.7	26.2	18.9	M	M	M	1195	1248
21-Aug-89	28.9	13.3	0.0	5.6	6.14	M	3.0	28.7	19.3	M	M	M	1206	1259
22-Aug-89	29.4	16.1	21.3	0.8	5.82	M	0.9	28.3	20.5	M	M	M	1219	1272
23-Aug-89	29.4	16.7	0.0	6.3	5.82	M	2.4	27.5	20.8	M	M	M	1232	1285
24-Aug-89	25.6	13.9	0.0	6.9	7.14	M	2.7	28.5	19.7	M	M	M	1242	1295
25-Aug-89	25.0	14.4	0.0	5.8	4.82	M	2.9	26.4	20.0	M	M	M	1251	1304
26-Aug-89	25.6	18.3	3.3	2.5	2.64	M	1.6	25.1	21.4	M	M	M	1263	1316
27-Aug-89	26.7	16.1	0.0	4.6	5.76	M	1.2	27.4	20.0	M	M	M	1275	1328
28-Aug-89	25.0	17.8	0.0	3.8	2.69	M	1.6	25.2	21.1	M	M	M	1286	1339
29-Aug-89	26.1	15.6	0.0	8.4	6.71	M	4.3	27.3	20.2	M	M	M	1297	1350
30-Aug-89	24.4	11.7	5.8	4.1	3.01	M	2.1	22.1	18.4	M	M	M	1305	1358
31-Aug-89	26.1	14.4	6.3	4.8	3.50	M	3.2	22.8	18.2	M	M	M	1315	1368
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	27.8	15.8	63.2	170.7	5.62	M	2.0	28.4	21.2	M	M	M	366	361
01-Sep-89	22.8	13.3	47.2	M	4.69	M	2.0	23.4	17.9	M	M	M	1323	1376
02-Sep-89	25.6	11.1	0.0	4.1	6.19	M	0.7	25.0	16.3	M	M	M	1332	1385
03-Sep-89	23.9	13.9	0.0	7.1	4.64	M	4.4	23.6	17.5	M	M	M	1341	1394
04-Sep-89	24.4	14.4	14.7	6.1	4.02	M	3.0	22.4	17.6	M	M	M	1350	1403
05-Sep-89	27.2	12.2	0.0	5.6	6.21	M	2.2	24.4	15.9	M	M	M	1360	1413
06-Sep-89	26.7	16.1	0.0	3.6	2.84	M	2.0	23.0	18.5	M	M	M	1371	1424
07-Sep-89	25.6	19.4	0.0	3.0	2.71	M	1.5	23.3	20.2	M	M	M	1384	1437
08-Sep-89	24.4	12.8	0.0	4.6	4.46	M	1.6	23.0	17.6	M	M	M	1392	1445
09-Sep-89	20.0	13.3	0.0	4.6	2.72	M	2.3	20.6	16.7	M	M	M	1399	1452
10-Sep-89	18.3	5.6	0.0	3.0	5.67	M	1.2	21.9	13.7	M	M	M	1401	1456
11-Sep-89	16.7	10.6	0.0	5.1	4.23	M	3.6	19.1	15.0	M	M	M	1404	1460
12-Sep-89	15.6	5.0	0.0	3.8	3.41	M	1.5	18.1	12.7	M	M	M	1405	1462
13-Sep-89	19.4	5.0	0.0	2.5	5.64	M	0.4	21.9	12.3	M	M	M	1407	1467
14-Sep-89	21.1	6.1	0.0	4.6	5.89	M	0.9	22.3	13.2	M	M	M	1411	1473
15-Sep-89	22.2	7.2	0.0	5.1	5.90	M	1.8	22.3	13.8	M	M	M	1415	1479
16-Sep-89	25.0	8.9	0.0	5.8	5.72	M	2.6	22.9	14.5	M	M	M	1422	1486
17-Sep-89	27.8	11.7	0.0	5.1	5.71	M	3.2	24.4	16.1	M	M	M	1432	1496
18-Sep-89	29.4	16.1	0.0	7.6	5.60	M	4.9	25.3	18.2	M	M	M	1445	1509
19-Sep-89	31.7	17.8	3.6	5.6	1.82	M	2.1	22.1	19.5	M	M	M	1459	1523
20-Sep-89	25.6	16.7	0.0	2.0	3.09	M	1.9	21.8	18.4	M	M	M	1471	1534
21-Sep-89	25.6	13.9	1.0	4.1	4.32	M	2.6	22.7	16.8	M	M	M	1480	1544
22-Sep-89	25.0	9.4	0.0	7.1	3.88	M	4.9	20.5	13.2	M	M	M	1487	1551
23-Sep-89	11.7	0.6	0.0	4.3	5.45	M	1.8	17.9	10.0	M	M	M	1487	1552
24-Sep-89	18.3	2.8	0.0	5.6	5.46	M	3.4	17.5	9.9	M	M	M	1488	1556
25-Sep-89	18.3	7.2	0.0	6.1	5.27	M	3.1	18.7	12.0	M	M	M	1491	1560
26-Sep-89	16.1	0.6	0.0	3.8	5.31	M	0.5	18.6	9.7	M	M	M	1491	1563
27-Sep-89	22.8	6.1	0.0	6.1	5.13	M	4.3	18.5	10.9	M	M	M	1495	1570
28-Sep-89	25.6	12.8	0.0	7.9	4.44	M	3.2	20.7	13.7	M	M	M	1504	1579
29-Sep-89	25.0	7.8	0.0	4.6	5.06	M	0.7	21.7	13.3	M	M	M	1511	1586
30-Sep-89	26.7	11.1	0.0	7.1	4.85	M	3.9	21.5	14.1	M	M	M	1520	1595
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	22.9	10.3	66.5	145.5	4.68	M	2.4	21.6	15.0	M	M	M	205	227

## ST PAUL

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	28.9	15.0	0.0	7.9	4.74	M	4.9	23.0	16.0	M	M	M	1532	1607
02-Oct-89	27.8	2.8	1.8	6.6	1.92	M	5.1	17.5	9.3	M	M	M	1537	1616
03-Oct-89	8.9	-3.3	0.0	3.6	5.02	M	2.3	13.1	6.1	M	M	M	1537	1616
04-Oct-89	12.2	-3.9	0.0	2.3	3.59	M	1.1	12.5	5.7	M	M	M	1537	1617
05-Oct-89	17.8	6.7	1.0	3.3	2.47	M	4.7	13.7	9.3	M	M	M	1539	1621
06-Oct-89	12.8	3.3	0.0	5.3	3.79	M	4.4	12.5	8.2	M	M	M	1539	1622
07-Oct-89	10.6	-1.1	0.0	3.3	4.49	M	2.4	12.2	5.9	M	M	M	1539	1623
08-Oct-89	12.8	-2.8	0.0	2.3	4.77	M	0.5	13.2	5.0	M	M	M	1539	1624
09-Oct-89	16.1	1.7	0.0	2.5	2.26	M	2.2	11.2	6.4	M	M	M	1539	1627
10-Oct-89	16.7	2.8	0.0	2.8	3.76	M	2.6	13.4	6.7	M	M	M	1539	1631
11-Oct-89	24.4	8.3	0.0	4.1	4.25	M	3.8	17.0	9.0	M	M	M	1546	1638
12-Oct-89	23.3	4.4	0.0	7.1	4.38	M	2.2	16.5	9.5	M	M	M	1549	1644
13-Oct-89	23.3	9.4	0.0	4.6	2.95	M	1.3	16.8	11.1	M	M	M	1556	1651
14-Oct-89	23.9	6.1	0.0	4.3	3.89	M	1.3	17.4	10.4	M	M	M	1561	1658
15-Oct-89	23.3	7.8	0.0	3.8	2.68	M	2.4	15.7	11.7	M	M	M	1566	1665
16-Oct-89	15.0	1.7	1.0	3.0	2.09	M	3.8	12.6	8.2	M	M	M	1566	1667
17-Oct-89	7.8	-1.1	0.0	2.5	3.04	M	2.0	10.2	5.7	M	M	M	1566	1667
18-Oct-89	7.2	-3.3	0.0	2.5	3.16	M	1.4	9.4	4.4	M	M	M	1566	1667
19-Oct-89	7.8	-5.6	0.0	1.8	4.18	M	1.2	9.5	3.4	M	M	M	1566	1667
20-Oct-89	13.9	-3.3	0.0	3.0	3.47	M	2.2	9.4	2.9	M	M	M	1566	1669
21-Oct-89	17.8	0.0	0.0	1.5	3.89	M	0.6	11.5	3.6	M	M	M	1566	1673
22-Oct-89	23.3	5.0	0.0	4.8	3.40	M	3.4	12.8	5.9	M	M	M	1571	1680
23-Oct-89	25.0	8.9	0.0	3.8	3.51	M	0.7	M	M	M	M	M	1577	1687
24-Oct-89	26.7	6.1	0.0	3.8	3.48	M	2.0	16.1	13.9	M	M	M	1584	1696
25-Oct-89	27.8	13.3	0.0	4.3	3.32	M	3.2	18.2	12.1	M	M	M	1594	1706
26-Oct-89	26.7	15.6	0.0	5.6	3.20	M	5.0	19.1	14.4	M	M	M	1606	1717
27-Oct-89	25.0	14.4	0.0	7.6	3.37	M	3.4	18.1	13.8	M	M	M	1615	1727
28-Oct-89	19.4	5.6	0.0	2.5	1.59	M	1.9	14.5	11.4	M	M	M	1618	1732
29-Oct-89	17.8	12.2	11.4	2.8	2.10	M	3.5	15.2	11.3	M	M	M	1623	1737
30-Oct-89	12.8	1.7	0.3	3.3	1.02	M	3.1	11.3	5.9	M	M	M	1623	1738
31-Oct-89	6.7	-1.1	0.0	2.0	2.02	M	1.5	7.4	4.2	M	M	M	1623	1738
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
18.2	4.1	15.5	118.9	3.28	M	2.6	13.6	8.1	M	M	M	M	103	143

STAPLES

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89 *	2.4	-5.3	4.3	M	1.71	173	M	-0.0	-0.1	88	84	0.50	0	0
02-Apr-89 *	11.8	-8.4	1.0	M	4.03	134	M	-0.0	-0.1	88	50	0.56	0	1
03-Apr-89	5.0	-1.3	11.2	M	0.66	59	M	0.4	-0.1	88	80	0.60	0	1
04-Apr-89	4.3	-1.6	0.3	M	2.10	340	M	1.9	-0.1	87	80	0.59	0	1
05-Apr-89	8.3	-4.4	0.0	M	5.73	296	M	5.4	-0.1	88	60	0.55	0	1
06-Apr-89	7.6	-5.0	0.0	M	6.35	334	M	6.6	-0.1	87	35	0.42	0	1
07-Apr-89	7.3	-4.8	0.8	M	4.28	254	M	6.4	-0.1	88	56	0.50	0	1
08-Apr-89	-4.8	-9.4	0.0	M	5.17	330	M	0.2	-0.1	83	59	0.26	0	1
09-Apr-89	-0.7	-9.5	0.0	M	6.54	319	M	-0.0	-0.8	80	49	0.27	0	1
10-Apr-89	4.4	-9.4	0.0	M	5.45	270	M	-0.0	-1.4	88	41	0.34	0	1
11-Apr-89	3.3	-6.7	0.0	M	6.07	317	M	1.4	-0.1	88	53	0.40	0	1
12-Apr-89	7.7	-8.2	0.0	M	6.80	275	M	6.9	-0.1	88	23	0.32	0	1
13-Apr-89	14.9	-3.2	0.0	M	4.66	217	M	7.9	-0.1	87	49	0.63	0	3
14-Apr-89	10.7	-3.7	0.0	M	6.75	307	M	8.9	0.1	88	34	0.51	0	4
15-Apr-89	15.4	-4.3	0.0	M	5.97	198	M	9.5	-0.0	89	35	0.56	0	6
16-Apr-89	15.2	-2.2	0.0	M	4.08	341	M	10.4	2.3	87	30	0.66	0	9
17-Apr-89	4.1	-8.2	0.0	1.0	6.90	312	M	8.5	0.1	86	28	0.27	0	9
18-Apr-89	11.2	-3.3	0.0	8.1	6.37	276	M	9.5	0.2	88	26	0.48	0	10
19-Apr-89	19.1	-3.0	0.0	3.3	6.22	227	M	13.2	0.3	86	16	0.46	0	14
20-Apr-89	17.5	1.6	0.0	5.1	3.44	96	M	10.6	1.3	75	20	0.41	0	18
21-Apr-89	19.9	1.7	0.0	10.7	6.71	113	M	15.5	1.2	87	40	0.81	1	23
22-Apr-89	21.2	8.4	0.0	9.3	5.90	123	M	16.5	6.5	74	47	0.95	6	28
23-Apr-89	19.3	7.3	0.0	1.1	3.38	115	M	14.6	6.9	70	47	0.83	9	33
24-Apr-89	24.3	6.6	1.3	7.5	4.59	124	M	18.4	5.8	80	42	1.05	14	40
25-Apr-89	19.1	8.5	1.3	4.0	4.24	9	M	17.7	9.3	87	65	1.19	18	45
26-Apr-89	10.7	6.7	2.8	0.2	0.87	52	M	10.4	7.8	88	75	0.93	18	45
27-Apr-89	12.2	5.1	2.3	3.2	2.56	73	2.5	11.6	6.2	86	67	0.79	18	46
28-Apr-89	9.0	2.4	5.6	4.2	1.72	79	4.3	7.9	4.8	88	53	0.65	18	46
29-Apr-89	5.2	0.4	4.1	0.0	2.65	27	3.4	7.8	2.9	88	84	0.64	18	46
30-Apr-89	7.9	0.4	0.8	1.6	4.19	333	2.6	10.6	3.2	87	57	0.62	18	46
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	10.4	-1.8	35.5	M	4.54	204	M	8.0	1.9	85	50	0.59	18	46

01-May-89	10.4	0.6	0.5	0.0	3.42	298	1.5	10.7	3.6	87	42	0.58	18	46
02-May-89	17.7	-2.7	0.0	5.1	6.03	279	2.7	15.5	2.0	88	24	0.60	18	50
03-May-89	19.4	3.4	0.0	9.4	6.77	243	4.0	17.7	4.1	81	24	0.68	20	55
04-May-89	13.8	1.7	11.2	0.1	1.73	266	3.9	11.7	6.3	87	63	0.91	20	57
05-May-89	2.4	-4.5	0.3	5.3	5.86	330	7.6	7.6	2.5	88	48	0.38	20	57
06-May-89	13.3	-4.0	0.8	5.3	6.69	344	4.2	14.2	1.8	88	36	0.51	20	59
07-May-89	19.6	-1.2	11.9	1.3	7.25	172	2.5	18.3	2.6	88	15	0.48	20	63
08-May-89	11.4	2.2	6.3	6.8	1.75	90	4.6	10.3	5.6	88	64	0.89	20	64
09-May-89	22.7	1.3	0.0	6.1	7.64	304	2.3	19.6	3.7	88	16	0.73	22	70
10-May-89	24.4	2.7	0.0	10.7	7.88	131	3.0	22.5	6.2	86	17	0.72	25	78
11-May-89	24.1	7.8	0.0	9.0	7.68	160	4.5	22.3	8.9	78	24	0.78	31	85
12-May-89	25.2	5.8	0.0	9.4	8.11	107	3.3	24.1	8.6	72	13	0.52	37	92
13-May-89	24.2	5.9	0.0	7.3	7.60	80	3.2	23.7	9.1	70	17	0.65	42	99
14-May-89	24.8	7.2	0.0	3.6	7.44	95	2.4	24.8	11.3	87	34	1.17	48	107
15-May-89	29.9	10.2	0.0	9.2	6.11	12	1.5	25.4	13.5	86	23	1.23	58	117
16-May-89	28.6	9.4	0.0	9.9	7.51	151	4.2	26.6	13.3	86	29	1.20	67	126
17-May-89	26.9	15.5	9.1	6.3	3.65	171	4.8	21.6	16.7	86	34	1.39	78	137
18-May-89	17.7	13.1	2.0	0.7	1.27	142	4.1	17.6	15.1	89	81	1.43	83	143
19-May-89	23.1	6.3	0.0	3.4	2.77	223	3.8	20.9	13.2	93	67	1.38	88	149
20-May-89	21.3	3.0	0.0	7.2	7.93	275	3.8	22.2	9.1	86	27	0.84	90	155
21-May-89	25.7	3.4	0.0	7.1	7.41	164	1.9	24.3	9.6	86	15	0.80	95	163
22-May-89	26.3	9.6	6.9	6.9	6.10	185	3.1	25.3	12.8	86	43	1.30	103	171
23-May-89	23.5	8.1	0.0	5.4	6.57	67	2.5	25.2	11.9	89	62	1.45	108	178
24-May-89	15.9	8.9	27.9	5.6	0.75	51	5.0	16.0	11.9	86	75	1.27	111	181
25-May-89	19.7	6.0	2.5	5.9	6.67	252	5.8	18.4	9.0	86	28	0.88	114	185
26-May-89	13.3	2.7	0.0	6.7	4.64	313	5.6	14.9	8.2	87	45	0.75	114	187
27-May-89	21.7	0.9	0.0	8.5	8.36	188	3.5	24.0	5.8	87	22	0.73	115	193
28-May-89	24.1	12.1	0.0	3.7	3.60	163	3.8	21.3	11.6	82	45	1.12	123	201
29-May-89	13.4	7.0	23.4	2.2	1.05	72	3.7	15.4	10.3	86	82	1.07	123	203
30-May-89	17.0	7.1	0.5	5.7	3.72	55	3.2	17.9	9.9	86	68	1.09	125	206
31-May-89	19.8	9.0	0.0	3.5	4.75	316	2.4	21.9	11.2	86	45	1.12	130	211
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	20.0	5.1	103.4	177.2	5.44	184	3.6	19.4	8.7	85	40	0.92	112	165

## STAPLES

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	21.0	9.4	0.0	3.8	7.02	270	2.8	23.9	12.2	86	52	1.22	135	217
02-Jun-89	24.2	10.3	0.0	9.0	6.46	290	3.9	25.6	13.2	82	13	1.20	142	224
03-Jun-89	21.8	6.9	0.0	7.2	7.76	316	2.9	27.4	11.9	98	29	0.99	146	230
04-Jun-89	20.0	4.7	0.0	6.9	8.20	322	3.2	26.5	11.6	76	24	0.74	149	235
05-Jun-89	22.7	11.5	0.3	3.0	4.25	276	2.9	22.2	14.2	94	48	1.25	156	242
06-Jun-89	27.3	11.8	0.0	7.7	8.10	122	2.0	30.4	14.7	97	33	1.26	165	251
07-Jun-89	23.2	8.8	2.8	5.2	4.63	293	4.4	25.1	17.0	98	60	1.53	171	258
08-Jun-89	10.2	4.8	1.5	2.7	2.20	23	2.8	17.0	10.9	99	88	1.05	171	258
09-Jun-89	20.6	2.6	0.0	2.7	8.57	15	2.3	27.3	8.4	100	36	0.91	173	263
10-Jun-89	24.1	3.5	0.0	7.9	8.49	155	2.2	28.7	11.6	100	39	1.07	177	270
11-Jun-89	24.2	10.7	9.4	7.8	4.38	143	4.6	23.9	15.0	97	61	1.51	184	278
12-Jun-89	21.7	8.6	4.3	2.4	3.15	270	5.1	21.6	13.4	99	81	1.62	189	284
13-Jun-89	14.2	6.7	4.3	2.2	2.44	41	2.3	16.8	11.1	99	70	1.07	190	286
14-Jun-89	19.2	7.1	0.0	8.6	7.75	34	3.2	22.3	10.8	99	36	0.99	193	290
15-Jun-89	24.8	5.2	0.0	5.1	7.05	344	1.3	24.8	10.3	99	35	1.06	198	298
16-Jun-89	23.9	6.6	0.0	9.1	8.47	139	2.8	28.1	12.2	100	38	1.18	203	305
17-Jun-89	28.8	9.6	0.0	7.6	7.48	170	3.4	29.2	14.0	92	41	1.52	212	314
18-Jun-89	28.2	13.8	0.0	7.3	6.25	300	3.2	30.1	18.2	97	34	1.56	223	325
19-Jun-89	31.5	12.5	0.0	16.0	6.49	153	4.0	31.2	17.4	96	35	1.58	235	336
20-Jun-89	33.8	21.6	2.5	16.1	5.68	159	8.6	30.7	20.9	59	35	1.66	253	352
21-Jun-89	28.3	16.9	13.2	7.3	2.56	160	4.8	27.1	19.8	98	47	2.23	266	365
22-Jun-89	23.9	14.0	0.0	2.0	5.21	326	2.6	25.2	17.5	98	52	1.65	275	374
23-Jun-89	26.5	13.5	0.0	10.1	7.71	308	2.0	28.3	16.7	97	39	1.58	285	384
24-Jun-89	27.2	11.7	9.1	4.4	4.78	151	1.6	26.7	16.6	99	40	1.65	294	393
25-Jun-89	23.4	14.7	2.5	2.5	3.33	223	3.4	22.4	18.0	99	78	1.93	303	402
26-Jun-89	23.5	12.9	0.0	6.3	5.70	249	3.3	24.2	16.9	98	47	1.64	311	410
27-Jun-89	27.0	9.9	0.0	14.0	8.47	309	2.8	27.4	14.2	97	30	1.34	320	419
28-Jun-89	25.8	12.7	1.0	1.6	8.04	116	4.7	28.8	16.9	96	62	1.75	329	428
29-Jun-89	31.9	15.1	0.0	11.6	7.10	177	5.0	30.3	18.4	96	47	2.13	343	441
30-Jun-89	30.1	17.5	0.0	6.9	7.03	316	2.3	32.2	20.7	95	52	2.17	356	454
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	24.4	10.5	51.1	205.2	6.16	206	3.3	26.2	14.8	95	46	1.43	226	243

01-Jul-89	32.9	14.7	0.0	7.3	7.76	187	1.6	33.2	20.3	98	53	2.37	370	467
02-Jul-89	32.5	18.5	10.2	11.1	7.43	192	3.6	32.8	21.9	96	55	2.47	386	481
03-Jul-89	30.3	15.7	0.0	10.7	8.24	314	2.7	29.7	20.6	99	32	1.90	399	494
04-Jul-89	33.1	14.4	0.0	6.1	8.22	152	2.8	32.4	19.4	98	39	2.01	412	506
05-Jul-89	35.1	21.3	0.0	12.6	7.94	176	4.9	33.0	23.0	89	48	2.53	431	522
06-Jul-89	30.0	16.1	0.0	10.9	6.56	359	3.1	31.2	23.9	95	43	2.07	444	535
07-Jul-89	28.9	13.8	0.3	8.5	8.17	83	2.2	33.2	21.2	95	34	1.51	455	546
08-Jul-89	32.5	16.2	0.0	6.8	7.44	165	2.8	33.7	22.2	94	55	2.30	469	559
09-Jul-89	35.9	18.2	0.0	5.1	6.03	118	3.6	33.4	23.9	96	47	2.51	486	573
10-Jul-89	31.1	16.1	0.0	11.1	7.77	68	2.3	34.9	23.2	97	40	1.92	500	586
11-Jul-89	25.4	15.8	1.5	5.0	3.68	85	3.0	28.9	22.8	97	70	2.07	511	597
12-Jul-89	30.1	14.7	0.0	2.9	6.26	62	1.6	32.8	21.4	97	54	2.03	523	609
13-Jul-89	27.2	13.3	0.0	9.6	6.75	58	1.9	31.1	21.8	98	41	1.52	533	620
14-Jul-89	27.9	11.1	0.0	5.9	6.57	352	1.7	30.2	20.6	98	31	1.35	543	629
15-Jul-89	30.1	9.6	0.0	5.9	6.57	68	1.2	31.4	20.0	98	28	1.47	553	639
16-Jul-89	31.2	11.7	0.0	5.9	6.24	74	1.4	30.8	20.7	98	27	1.54	564	650
17-Jul-89	29.2	12.6	0.0	7.8	6.43	168	2.1	30.8	21.1	97	38	1.75	575	661
18-Jul-89	27.8	16.1	17.0	9.5	4.18	54	2.7	28.8	20.6	96	55	2.02	587	673
19-Jul-89	28.8	13.6	0.0	7.0	6.92	15	2.1	28.4	18.0	98	38	1.71	598	684
20-Jul-89	31.6	14.0	0.0	7.0	6.89	0	1.8	33.2	17.9	96	36	1.76	611	696
21-Jul-89	32.5	13.8	0.0	4.1	7.08	82	1.4	35.2	19.9	97	35	1.92	624	708
22-Jul-89	31.0	15.1	0.0	9.9	6.76	158	1.5	34.6	21.3	97	38	1.84	637	720
23-Jul-89	30.0	14.3	0.0	5.2	5.87	142	1.9	32.7	21.3	97	55	2.08	649	732
24-Jul-89	31.3	16.0	0.0	6.6	5.95	182	2.6	32.8	21.9	97	48	2.18	663	745
25-Jul-89	32.7	17.5	0.0	6.0	7.24	202	2.8	34.8	22.4	96	43	2.24	678	759
26-Jul-89	32.7	19.6	0.0	11.4	6.94	218	2.7	35.3	23.8	96	45	2.45	694	774
27-Jul-89	28.4	14.2	0.0	6.6	7.62	7	2.9	34.5	24.1	93	44	1.78	705	785
28-Jul-89	26.7	14.4	22.9	10.1	6.26	118	3.8	32.4	22.1	96	56	1.77	716	796
29-Jul-89	25.4	16.6	0.3	2.7	2.64	101	3.1	26.7	20.8	97	85	2.15	727	807
30-Jul-89	28.4	14.8	0.0	3.1	4.37	126	2.6	28.4	20.3	98	69	2.12	739	818
31-Jul-89	31.4	15.4	0.0	2.2	5.62	139	1.6	33.1	20.9	97	48	2.14	752	831
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.4	15.1	52.1	224.4	6.53	136	2.5	32.1	21.4	96	46	1.98	396	377

STAPLES

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	32.8	17.6	0.0	7.7	6.93	200	3.0	35.1	21.3	95	55	2.53	767	845
02-Aug-89	31.9	17.6	0.8	8.6	5.93	186	4.7	32.6	22.3	95	59	2.59	782	859
03-Aug-89	33.7	21.0	3.0	10.8	5.92	220	3.5	35.7	24.2	92	56	2.82	799	874
04-Aug-89	31.4	16.9	0.0	9.9	5.18	246	3.0	31.2	22.6	94	37	2.10	813	888
05-Aug-89	20.6	12.0	0.0	5.3	3.59	307	5.1	25.2	19.9	95	69	1.63	820	894
06-Aug-89	21.3	7.1	0.0	2.2	5.39	350	3.1	26.3	16.0	97	39	1.10	824	900
07-Aug-89	25.6	6.2	0.0	8.9	7.19	340	2.2	30.3	15.7	98	32	1.19	830	908
08-Aug-89	28.5	9.4	0.0	6.4	6.94	330	1.5	31.8	17.9	97	24	1.26	839	917
09-Aug-89	31.0	9.1	0.0	6.8	6.90	136	1.4	32.7	18.4	97	21	1.34	849	927
10-Aug-89	31.4	10.8	43.2	16.4	6.88	166	2.5	32.7	19.3	96	31	1.61	860	937
11-Aug-89	29.9	14.4	42.4	20.9	6.13	162	3.0	29.0	18.8	96	44	1.90	872	949
12-Aug-89	28.3	16.2	1.0	5.1	5.35	183	2.7	28.8	19.5	95	66	2.19	884	962
13-Aug-89	30.0	13.0	3.3	5.2	5.23	314	1.9	29.2	17.9	96	53	1.91	896	973
14-Aug-89	24.1	13.8	0.8	3.2	3.20	26	2.0	25.1	18.7	95	64	1.75	905	982
15-Aug-89	24.8	10.9	0.0	3.8	5.07	47	1.1	26.8	16.6	96	46	1.50	913	990
16-Aug-89	27.3	8.2	0.0	5.1	6.95	115	1.1	30.7	15.1	96	40	1.40	920	999
17-Aug-89	26.8	10.4	0.0	7.7	6.59	146	3.4	30.4	17.2	96	51	1.62	929	1007
18-Aug-89	28.2	15.4	12.2	8.2	6.39	167	5.1	30.4	18.8	89	44	1.72	941	1019
19-Aug-89	25.9	14.9	0.0	3.4	3.55	244	3.3	25.9	19.0	95	57	1.89	951	1029
20-Aug-89	20.4	10.3	0.0	5.4	6.66	312	3.0	25.2	16.9	96	66	1.48	957	1035
21-Aug-89	24.3	9.2	2.5	2.6	3.88	118	3.0	24.2	15.1	96	69	1.71	963	1042
22-Aug-89	28.4	12.9	0.0	4.9	6.13	33	1.8	29.4	17.0	95	48	1.85	974	1053
23-Aug-89	27.0	14.3	0.0	6.5	6.53	119	3.2	30.3	17.9	95	55	1.89	985	1063
24-Aug-89	24.8	14.2	0.0	4.4	4.04	136	4.1	27.2	19.0	95	62	1.81	994	1073
25-Aug-89	23.1	14.1	38.4	0.7	2.81	147	4.1	24.2	17.8	95	80	1.96	1003	1081
26-Aug-89	26.5	15.6	10.7	13.6	3.26	255	2.1	25.6	17.7	94	73	2.01	1014	1092
27-Aug-89	24.7	10.0	0.0	4.5	5.36	94	1.7	25.3	15.7	95	44	1.52	1021	1100
28-Aug-89	25.9	14.3	3.0	4.5	3.78	190	3.2	24.8	17.7	94	77	2.03	1031	1110
29-Aug-89	21.1	10.9	0.0	6.6	6.46	288	4.4	23.6	15.1	95	56	1.41	1037	1116
30-Aug-89	20.2	7.4	38.4	8.4	3.47	117	3.1	21.4	14.0	96	74	1.45	1041	1121
31-Aug-89	22.9	14.9	2.0	0.0	2.26	82	3.2	21.9	16.1	95	82	1.86	1050	1130
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
26.5	12.7	201.7	207.8	5.29	186	2.9	28.2	18.0	95	54	1.78	298	299	

01-Sep-89	23.1	9.7	0.0	5.9	4.23	351	1.6	24.3	16.4	95	51	1.58	1056	1136
02-Sep-89	24.2	7.4	19.6	6.7	5.48	131	1.4	24.7	13.5	95	53	1.48	1062	1143
03-Sep-89	18.1	13.8	11.7	6.7	0.68	141	5.3	17.2	15.6	95	86	1.69	1068	1149
04-Sep-89	21.9	11.9	0.0	4.9	5.00	264	4.1	21.7	15.6	95	65	1.64	1075	1156
05-Sep-89	26.6	10.0	0.0	5.3	5.89	180	2.7	24.2	13.3	95	54	1.67	1083	1164
06-Sep-89	21.2	14.0	0.0	0.9	1.19	151	3.8	19.7	15.7	95	90	1.92	1091	1172
07-Sep-89	21.1	10.2	0.0	2.7	3.48	277	2.3	20.9	14.9	94	62	1.52	1096	1178
08-Sep-89	19.3	9.6	0.0	4.4	4.34	298	3.1	20.4	13.1	94	58	1.31	1101	1182
09-Sep-89	16.2	4.7	0.0	0.2	3.23	301	2.9	18.7	12.4	96	62	1.11	1101	1185
10-Sep-89	15.7	1.6	9.1	1.2	2.69	180	1.4	16.8	9.5	96	52	0.98	1101	1188
11-Sep-89	11.5	5.9	4.1	2.9	3.37	264	3.9	15.7	10.5	95	61	0.92	1101	1189
12-Sep-89	16.2	3.4	0.0	5.6	4.71	321	2.4	18.1	9.9	96	48	0.93	1101	1192
13-Sep-89	17.4	0.7	0.0	3.6	5.47	215	2.2	18.9	7.6	96	50	0.90	1101	1196
14-Sep-89	20.8	2.8	0.0	4.0	5.57	191	2.3	20.3	8.1	96	41	1.02	1103	1201
15-Sep-89	21.9	4.8	0.0	2.1	5.50	173	2.8	21.3	9.6	96	46	1.15	1107	1207
16-Sep-89	24.3	8.2	0.0	5.4	5.20	150	1.9	23.5	11.6	95	65	1.52	1113	1214
17-Sep-89	27.0	8.7	0.0	5.4	4.99	154	4.0	23.5	13.0	95	64	1.78	1121	1223
18-Sep-89	28.7	16.8	0.0	4.8	4.81	170	6.2	23.9	16.4	92	47	1.82	1133	1236
19-Sep-89	20.1	12.6	3.3	1.0	0.93	214	1.9	18.9	16.0	93	76	1.65	1140	1242
20-Sep-89	21.0	12.3	55.6	5.1	1.30	97	2.3	19.3	15.6	92	87	1.64	1146	1249
21-Sep-89	23.7	11.9	3.3	2.7	2.15	24	2.8	21.3	15.6	92	77	1.68	1154	1256
22-Sep-89	12.0	0.2	0.3	5.7	4.61	339	5.6	15.6	7.5	93	46	0.72	1154	1257
23-Sep-89	12.6	-1.3	0.0	2.5	5.14	295	2.4	16.7	5.3	95	40	0.60	1154	1259
24-Sep-89	18.5	2.4	0.0	2.7	4.91	193	4.4	16.8	6.4	90	27	0.68	1155	1263
25-Sep-89	13.3	0.1	0.0	6.3	4.65	325	3.3	16.7	8.9	95	43	0.78	1155	1265
26-Sep-89	15.4	-2.2	0.0	3.5	4.90	160	1.8	17.9	5.8	96	45	0.72	1155	1267
27-Sep-89	24.6	6.4	0.0	3.1	4.01	183	5.1	18.5	8.7	78	34	0.92	1160	1275
28-Sep-89	25.8	8.7	0.0	5.4	4.40	299	3.3	20.5	11.3	91	36	1.09	1167	1282
29-Sep-89	21.6	2.6	0.0	5.3	4.61	168	1.8	20.2	9.5	95	35	0.92	1169	1288
30-Sep-89	28.1	12.3	0.0	9.1	4.10	185	5.0	21.2	12.4	70	32	1.17	1180	1298
MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
20.4	7.0	106.9	124.7	4.05	213	3.1	19.9	11.7	93	54	1.25	130	168	

## STAPLES

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	25.1	2.7	9.1	2.4	2.19	252	5.6	19.7	9.7	95	48	1.18	1184	1306
02-Oct-89	2.9	-4.4	0.0	2.4	1.60	324	5.0	9.7	4.1	93	64	0.52	1184	1306
03-Oct-89	8.1	-6.4	0.0	2.4	4.63	296	2.7	11.1	2.5	95	45	0.44	1184	1306
04-Oct-89	14.3	-4.7	1.3	2.4	3.80	169	2.3	12.4	2.6	97	29	0.56	1184	1308
05-Oct-89	11.0	2.2	0.0	2.4	1.26	288	4.1	9.6	5.6	95	72	0.87	1184	1309
06-Oct-89	8.9	-1.7	0.0	1.9	3.05	318	4.8	10.2	4.3	91	51	0.57	1184	1309
07-Oct-89	10.1	-3.9	0.0	2.4	4.15	298	2.5	11.7	2.5	96	38	0.50	1184	1309
08-Oct-89	12.5	-7.1	0.0	1.1	3.94	162	1.3	12.3	2.0	96	28	0.47	1184	1310
09-Oct-89	14.7	-1.9	5.3	0.1	2.40	292	3.3	11.4	3.6	95	52	0.76	1184	1312
10-Oct-89	16.3	2.1	0.0	5.9	2.88	205	2.9	13.1	4.4	96	41	0.80	1184	1315
11-Oct-89	20.8	3.3	0.0	2.0	2.57	283	3.7	12.2	5.9	80	42	0.82	1186	1321
12-Oct-89	19.6	3.3	0.0	3.9	3.92	250	3.5	14.5	4.1	92	37	0.75	1187	1326
13-Oct-89	22.9	1.5	0.0	1.9	1.99	142	1.2	14.0	6.0	94	28	0.87	1189	1332
14-Oct-89	21.8	2.4	0.0	2.0	3.43	42	1.2	15.9	5.9	94	25	0.76	1191	1338
15-Oct-89	11.3	2.0	0.0	6.3	1.13	342	3.5	9.7	6.3	94	62	0.80	1191	1339
16-Oct-89	7.8	-4.6	0.0	0.7	3.74	16	3.3	11.8	4.9	94	54	0.54	1191	1339
17-Oct-89	7.3	-6.2	0.0	0.7	2.59	344	1.8	9.0	2.5	96	49	0.47	1191	1339
18-Oct-89	7.9	-6.2	0.0	1.1	3.36	18	1.5	10.6	2.7	94	40	0.45	1191	1339
19-Oct-89	9.1	-8.0	0.0	1.2	3.63	279	1.3	10.0	1.0	96	39	0.40	1191	1339
20-Oct-89	15.9	-5.9	0.0	2.8	3.49	300	1.7	11.5	1.7	93	19	0.42	1191	1342
21-Oct-89	17.6	-5.3	0.0	2.8	3.32	167	1.6	11.8	1.8	94	32	0.57	1191	1345
22-Oct-89	19.5	1.5	0.0	2.9	2.78	169	2.5	12.1	4.1	93	39	0.74	1192	1350
23-Oct-89	24.1	-0.7	0.0	2.2	3.09	307	1.3	13.9	3.7	96	23	0.75	1193	1357
24-Oct-89	24.2	0.4	0.0	3.4	3.17	160	2.0	14.5	4.6	95	29	0.87	1196	1364
25-Oct-89	25.5	11.2	0.0	3.5	2.90	168	4.4	15.9	8.4	92	52	1.52	1204	1373
26-Oct-89	24.7	16.6	0.0	6.9	2.48	166	7.2	16.9	12.2	88	55	1.65	1215	1383
27-Oct-89	19.2	4.4	0.0	4.2	3.14	210	6.3	15.3	8.8	74	45	0.93	1217	1388
28-Oct-89	20.3	-0.7	14.7	2.0	3.07	118	1.5	14.7	5.7	96	24	0.72	1217	1393
29-Oct-89	9.3	0.0	0.0	0.2	1.07	348	3.5	10.4	4.8	94	86	0.88	1217	1393
30-Oct-89	6.4	-3.2	0.3	M	2.73	341	2.0	8.1	2.7	93	46	0.47	1217	1393
31-Oct-89 *	5.0	-2.6	0.0	M	1.71	342	2.2	6.3	2.4	96	62	0.49	1217	1393
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	15.0	-0.6	30.8	M	2.88	230	3.0	12.3	4.6	93	44	0.73	37	95

WASECA

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	10.5	-1.9	6.1	M	1.91	168	5.2	3.1	0.1	M	M	M	0	0
02-Apr-89	14.1	-0.5	3.8	M	6.14	151	2.9	7.8	0.1	M	M	M	0	2
03-Apr-89	12.5	1.6	0.5	M	3.42	230	5.7	7.1	3.9	86	49	0.77	0	4
04-Apr-89	8.9	0.8	0.3	M	2.44	322	5.9	4.7	2.2	M	M	M	0	4
05-Apr-89	10.5	-1.4	0.0	M	6.01	311	3.3	7.1	0.8	M	M	M	0	4
06-Apr-89	10.1	-1.3	0.0	M	6.61	346	4.0	6.7	1.2	87	M	M	0	4
07-Apr-89	5.9	-4.0	1.3	M	3.39	220	3.0	3.5	0.8	90	50	0.50	0	4
08-Apr-89	0.5	-6.0	0.0	M	4.86	329	7.0	2.3	0.4	87	M	M	0	4
09-Apr-89	1.4	-9.8	0.0	M	5.74	316	7.2	0.8	-0.2	83	48	0.30	0	4
10-Apr-89	4.4	-8.0	0.0	M	6.83	279	4.1	1.0	-0.3	86	32	0.34	0	4
11-Apr-89	6.1	-3.1	0.0	M	5.57	286	4.6	3.9	-0.2	79	41	0.42	0	4
12-Apr-89	7.6	-5.1	0.0	M	7.21	334	3.1	5.7	0.0	83	21	0.32	0	4
13-Apr-89	18.4	-0.5	0.0	M	5.65	204	6.2	6.6	1.1	79	M	M	0	8
14-Apr-89	14.1	1.7	0.0	M	6.04	316	5.0	8.1	3.5	82	23	0.53	0	10
15-Apr-89	16.6	-5.1	0.0	M	6.76	199	4.3	8.7	2.4	86	19	0.41	0	13
16-Apr-89	22.9	7.6	0.3	M	5.93	243	5.4	11.9	6.0	77	22	0.63	5	20
17-Apr-89	8.3	-0.9	0.0	M	6.81	351	4.4	10.3	6.4	84	18	0.38	5	20
18-Apr-89	12.6	-0.3	0.0	M	6.06	317	4.0	9.6	5.3	94	25	0.48	5	21
19-Apr-89	21.1	-4.0	0.0	M	6.55	216	4.1	9.9	3.8	82	15	0.39	5	27
20-Apr-89	23.6	8.1	0.3	M	3.45	167	5.6	9.6	6.5	71	29	0.75	11	34
21-Apr-89	23.0	6.2	3.8	M	6.85	98	5.3	12.4	6.7	84	24	0.83	16	40
22-Apr-89	15.0	7.3	7.6	M	2.48	121	7.8	11.2	8.2	87	62	1.03	17	43
23-Apr-89	20.4	7.6	0.0	M	4.85	114	7.7	11.7	7.4	88	64	1.14	21	48
24-Apr-89	18.8	9.1	12.4	13.0	3.24	113	5.5	11.4	8.3	83	62	1.13	25	52
25-Apr-89	22.6	11.8	3.0	5.1	5.42	41	4.2	15.6	9.8	M	M	M	32	59
26-Apr-89	19.1	10.0	14.7	5.3	1.95	67	4.6	13.3	10.2	86	M	M	37	64
27-Apr-89	17.7	9.7	21.6	7.4	4.05	72	6.6	13.0	10.3	84	64	1.19	40	68
28-Apr-89	9.7	5.5	4.6	0.5	0.97	83	5.1	11.5	7.8	91	M	M	40	68
29-Apr-89	5.8	1.8	1.3	2.8	1.66	340	5.0	8.4	6.2	M	M	M	40	68
30-Apr-89	9.6	0.9	0.0	2.8	5.05	322	3.3	10.0	4.9	85	M	M	40	68

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
13.1	1.3	81.5	M	4.80	222	5.0	8.2	4.1	M	M	M	40	68	

01-May-89	8.9	-0.4	0.0	1.3	3.41	330	2.1	8.2	5.0	86	M	M	40	68
02-May-89	14.4	-1.1	0.0	4.6	6.70	294	2.3	12.0	4.0	91	30	0.57	40	70
03-May-89	19.0	1.2	0.8	7.6	7.36	207	4.2	14.0	6.1	82	18	0.58	40	74
04-May-89	13.8	6.1	7.6	4.1	1.72	213	5.4	11.8	9.3	92	65	0.98	40	76
05-May-89	6.1	-2.6	0.0	3.8	7.73	313	9.0	9.9	6.3	83	36	0.44	40	76
06-May-89	10.7	-4.3	0.0	5.6	4.51	334	5.1	8.6	4.1	84	53	0.48	40	77
07-May-89	19.1	-1.8	0.5	5.1	7.91	191	2.0	14.4	4.5	88	17	0.56	40	81
08-May-89	12.9	5.9	8.9	3.8	1.56	105	5.8	12.0	8.7	84	48	0.87	40	83
09-May-89	18.9	3.3	0.0	5.3	8.14	16	3.5	14.2	6.7	86	38	0.80	41	87
10-May-89	23.6	9.9	0.0	8.1	4.52	112	3.9	18.2	11.8	M	22	0.73	48	94
11-May-89	24.2	6.1	0.0	7.6	8.28	143	3.2	19.8	10.3	58	17	0.58	53	101
12-May-89	24.1	10.8	0.0	9.4	7.30	51	3.6	20.5	11.6	55	M	0.55	61	108
13-May-89	23.1	8.2	0.0	7.4	7.65	63	3.8	20.2	11.9	70	M	0.77	66	115
14-May-89	24.3	10.5	0.0	7.4	5.93	125	2.4	20.7	13.7	M	40	1.14	74	122
15-May-89	27.4	9.3	0.0	6.3	7.97	37	2.7	22.9	14.0	85	36	1.21	82	131
16-May-89	29.3	19.0	0.0	10.7	1.65	162	4.7	22.8	19.7	54	28	1.11	96	145
17-May-89	29.6	14.7	4.1	13.2	6.40	163	6.8	22.3	16.9	72	M	M	108	157
18-May-89	18.3	15.2	5.1	1.5	0.94	126	4.6	19.9	15.7	M	M	M	115	164
19-May-89	23.7	12.3	2.5	5.3	3.54	138	3.9	19.0	14.9	M	M	M	123	172
20-May-89	24.5	6.0	0.0	11.4	8.67	302	4.2	20.2	12.9	M	M	M	128	179
21-May-89	28.9	7.4	0.0	12.2	7.59	195	3.5	22.3	13.1	76	15	0.83	137	189
22-May-89	27.2	11.2	1.5	5.6	7.45	166	4.1	23.1	15.6	95	M	M	146	198
23-May-89	29.9	13.4	0.0	10.2	6.22	185	5.8	22.7	16.3	M	M	M	157	210
24-May-89	25.8	13.0	8.6	7.6	2.65	193	8.0	20.5	17.3	94	50	2.09	167	219
25-May-89	23.8	7.4	0.0	9.4	6.45	253	4.5	19.9	14.0	98	27	1.04	172	226
26-May-89	16.5	4.9	0.0	6.9	5.26	309	6.0	17.9	13.3	79	44	0.79	173	229
27-May-89	23.3	1.4	0.0	10.7	8.84	188	2.8	22.6	10.8	91	20	0.68	175	236
28-May-89	24.6	11.6	0.0	9.4	6.69	169	7.4	21.2	14.9	84	40	1.09	183	244
29-May-89	20.8	10.7	0.0	3.3	1.93	101	6.7	18.6	16.4	100	77	1.70	189	250
30-May-89	15.1	10.4	0.0	3.8	1.95	28	4.8	17.1	14.8	100	M	M	192	252
31-May-89	19.8	9.7	0.0	3.8	5.18	346	3.0	20.4	13.8	M	M	M	197	257

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
21.0	7.4	39.6	212.3	5.55	179	4.5	18.0	11.9	M	M	M	157	189	

WASECA

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	23.5	11.4	0.0	7.4	6.28	282	3.2	22.3	15.3	M	M	M	204	265
02-Jun-89	28.7	9.4	0.0	5.6	6.32	296	3.6	22.4	15.1	78	26	1.20	213	274
03-Jun-89	23.1	9.4	0.0	9.7	7.54	2	3.2	23.6	17.0	95	40	1.36	219	281
04-Jun-89	24.3	6.0	0.0	8.6	8.81	358	2.6	24.6	15.4	86	M	M	225	288
05-Jun-89	27.6	8.3	0.0	7.6	4.55	233	3.4	20.7	16.2	68	26	0.96	233	297
06-Jun-89	31.9	16.1	0.0	10.7	8.05	227	3.4	27.1	17.4	57	27	1.23	247	310
07-Jun-89	29.7	14.6	0.0	9.4	5.89	240	5.1	25.3	20.5	89	M	M	259	322
08-Jun-89	14.7	9.5	0.0	2.3	2.23	327	4.2	21.4	16.5	97	M	M	261	324
09-Jun-89	17.6	7.0	0.0	3.6	4.76	2	3.5	19.5	14.9	97	M	M	263	328
10-Jun-89	25.5	4.4	0.0	10.9	8.79	147	3.1	23.1	13.4	100	M	M	268	336
11-Jun-89	27.1	13.9	5.3	7.9	5.43	142	5.8	22.6	17.3	94	M	M	279	346
12-Jun-89	25.8	9.9	0.0	7.4	5.22	250	5.4	23.1	18.5	99	M	M	286	354
13-Jun-89	19.5	6.7	3.0	5.1	4.97	268	2.4	20.0	15.4	M	M	M	290	359
14-Jun-89	12.8	5.5	0.0	1.5	1.76	7	4.2	17.4	12.7	M	M	M	290	360
15-Jun-89	20.6	5.3	0.0	5.1	7.77	13	2.6	20.1	10.7	100	M	M	292	366
16-Jun-89	24.2	9.4	0.0	8.1	8.38	72	2.3	24.3	14.7	95	M	M	299	373
17-Jun-89	30.4	11.6	0.0	9.9	8.03	182	4.1	24.7	16.6	97	M	M	310	383
18-Jun-89	27.4	16.1	0.0	6.3	6.09	0	2.6	25.6	19.8	97	M	M	322	395
19-Jun-89	33.6	12.7	0.0	11.2	8.64	153	2.6	28.4	18.8	92	M	M	335	407
20-Jun-89	33.7	20.5	0.0	15.5	7.67	158	7.9	27.4	21.9	68	M	M	352	422
21-Jun-89	34.2	18.7	0.8	8.6	3.83	169	6.4	25.8	22.4	93	M	M	369	436
22-Jun-89	23.4	16.0	0.3	3.3	3.62	288	2.3	24.1	21.0	99	M	M	378	446
23-Jun-89	27.9	14.9	0.0	7.4	7.58	299	2.1	27.0	19.8	100	M	M	390	457
24-Jun-89	28.7	13.0	19.6	7.9	5.08	158	2.5	25.0	20.1	95	M	M	401	468
25-Jun-89	27.5	17.5	24.4	11.9	5.96	187	3.6	24.8	19.8	100	69	2.29	413	481
26-Jun-89	25.5	17.3	0.3	4.1	5.13	276	2.9	24.0	20.0	M	69	2.21	425	492
27-Jun-89	28.1	13.3	0.0	7.1	8.85	264	1.3	27.4	18.4	99	M	1.59	435	503
28-Jun-89	31.0	14.9	0.0	9.9	8.51	137	2.0	29.9	19.8	94	M	M	448	515
29-Jun-89	29.4	17.9	0.0	10.4	8.40	167	5.3	28.9	21.9	93	50	1.99	462	529
30-Jun-89	30.1	18.9	2.5	5.6	6.51	197	4.6	28.9	22.3	94	59	2.13	476	543
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	26.3	12.3	56.1	229.9	6.36	183	3.6	24.3	17.8	M	M	M	279	286

01-Jul-89	31.1	19.0	0.0	6.6	7.17	175	2.8	29.8	22.2	95	46	2.26	491	558
02-Jul-89	31.2	18.6	0.0	7.9	7.33	184	2.8	30.3	23.4	98	55	2.42	506	572
03-Jul-89	32.2	18.9	0.0	5.6	8.37	330	2.4	32.1	23.7	96	M	M	522	587
04-Jul-89	34.3	17.2	0.0	10.7	8.10	109	2.2	32.2	24.2	94	M	M	538	600
05-Jul-89	34.9	18.1	0.0	12.7	8.63	173	3.5	32.1	24.4	86	M	M	554	614
06-Jul-89	34.2	21.7	0.0	11.4	8.12	296	3.9	32.9	25.2	M	M	M	572	630
07-Jul-89	31.0	18.9	10.4	5.3	8.50	44	3.2	32.4	25.2	90	M	M	587	644
08-Jul-89	32.8	16.5	1.3	7.1	6.71	142	4.7	29.8	23.9	98	M	M	602	658
09-Jul-89	36.1	21.0	0.0	11.7	8.11	196	4.7	31.4	24.1	93	M	M	620	673
10-Jul-89	34.5	21.2	23.1	12.7	7.98	52	3.6	32.1	25.8	95	M	M	638	689
11-Jul-89	26.9	20.2	0.0	4.6	5.27	199	3.2	29.1	24.6	97	M	M	652	702
12-Jul-89	28.1	19.8	0.5	3.0	6.38	30	2.7	28.2	23.3	95	M	M	666	716
13-Jul-89	26.0	15.4	0.0	10.7	7.68	48	2.7	29.4	22.8	92	M	M	676	727
14-Jul-89 *	33.6	14.4	0.0	4.6	5.98	98	1.3	27.5	M	M	M	M	683	737
15-Jul-89	27.1	14.4	0.0	4.1	5.32	196	1.4	26.4	21.4	M	M	M	694	748
16-Jul-89	30.1	13.4	0.0	4.6	8.32	228	1.1	30.0	19.3	M	M	M	706	759
17-Jul-89	27.5	13.7	17.8	9.9	6.25	168	2.5	27.0	21.7	M	M	M	716	770
18-Jul-89	24.1	16.5	25.7	3.8	4.04	247	3.5	23.5	20.5	M	M	M	727	780
19-Jul-89	25.9	15.6	0.0	6.9	7.07	14	4.0	24.0	19.0	100	M	M	737	791
20-Jul-89	28.6	14.6	3.6	6.9	7.36	15	2.4	27.3	18.6	M	M	M	749	803
21-Jul-89	28.0	15.9	0.0	7.9	8.12	75	2.3	28.4	20.6	M	M	M	761	815
22-Jul-89	28.6	14.6	0.0	5.8	6.65	81	2.5	28.0	20.6	M	M	M	772	826
23-Jul-89	28.7	17.4	0.0	6.1	6.80	137	2.3	29.0	22.1	97	M	M	785	839
24-Jul-89	29.1	18.3	0.0	5.6	6.88	167	2.2	29.3	22.7	M	M	M	799	853
25-Jul-89	30.6	18.9	0.0	5.8	6.44	178	2.0	29.9	23.4	100	M	M	814	867
26-Jul-89	31.0	20.0	0.0	6.9	6.99	210	3.1	30.4	24.2	96	M	M	829	882
27-Jul-89	31.5	19.5	0.0	9.1	7.57	327	2.9	31.7	24.7	M	M	M	845	897
28-Jul-89	29.6	16.1	6.1	8.6	7.36	100	3.4	30.6	23.7	91	M	M	858	910
29-Jul-89	28.0	18.0	6.9	3.8	3.32	93	3.0	26.9	23.2	M	M	M	871	923
30-Jul-89	26.6	18.0	0.0	3.6	4.55	79	1.7	26.1	22.1	M	M	M	883	935
31-Jul-89	31.1	16.9	0.0	5.3	6.90	154	0.9	29.5	21.3	M	M	M	897	949
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	30.1	17.5	95.2	219.2	6.91	147	2.7	29.3	22.0	M	M	M	421	406



WASECA

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	30.1	16.9	0.0	7.1	6.86	195	2.2	29.9	22.6	M	M	M	911	962
02-Aug-89	30.8	18.3	0.0	8.1	7.33	194	4.0	29.4	23.1	M	M	M	925	976
03-Aug-89	31.0	23.8	0.0	6.1	5.49	210	4.3	29.2	25.1	M	M	M	943	993
04-Aug-89	35.9	19.1	1.3	6.1	5.49	137	1.9	31.1	25.1	M	M	M	960	1008
05-Aug-89	27.3	16.6	0.0	10.4	7.05	306	3.9	28.9	23.2	M	M	M	972	1020
06-Aug-89	20.8	8.7	0.0	6.1	5.68	358	3.9	25.8	21.4	94	M	M	977	1025
07-Aug-89	24.5	7.0	0.0	7.6	7.45	336	2.0	26.1	18.8	M	M	M	982	1032
08-Aug-89	27.8	8.4	0.0	5.3	7.25	274	1.3	27.8	19.3	97	M	M	991	1041
09-Aug-89	29.8	10.1	0.0	6.3	7.17	203	1.5	28.4	20.3	93	M	M	1000	1051
10-Aug-89	30.3	13.4	0.0	7.9	6.78	194	2.3	28.2	21.3	90	M	M	1012	1063
11-Aug-89	29.4	14.7	0.0	7.1	6.67	188	1.8	28.8	21.9	93	M	M	1024	1075
12-Aug-89	28.2	16.8	3.8	6.3	4.15	196	2.8	26.2	22.4	M	M	M	1037	1087
13-Aug-89	28.1	17.6	8.1	6.1	6.29	216	3.3	28.1	21.8	100	M	M	1050	1100
14-Aug-89	26.3	15.5	0.0	4.6	4.91	356	2.5	26.0	21.2	M	M	M	1061	1111
15-Aug-89	24.6	11.5	0.0	5.8	6.10	19	1.9	26.4	19.3	100	M	M	1069	1119
16-Aug-89 *	26.4	16.1	0.0	6.6	6.89	87	1.8	27.1	19.0	97	M	M	1080	1130
17-Aug-89	27.0	15.9	0.0	6.1	6.26	149	2.5	26.9	19.3	87	M	M	1091	1142
18-Aug-89	27.5	12.5	0.0	7.6	6.82	166	3.2	26.9	20.0	95	M	M	1101	1152
19-Aug-89	21.8	16.6	1.8	1.3	1.68	181	2.7	23.5	20.6	100	M	M	1111	1161
20-Aug-89	26.6	12.5	0.0	5.6	6.64	283	1.9	26.2	18.4	M	M	M	1120	1171
21-Aug-89	30.7	16.4	6.6	8.1	5.16	147	2.9	26.8	20.9	99	M	M	1134	1184
22-Aug-89	32.7	21.0	0.0	6.9	1.86	35	2.4	29.6	25.6	92	M	M	1151	1199
23-Aug-89	28.8	17.2	0.0	5.3	5.26	88	3.2	28.6	22.6	M	M	M	1164	1212
24-Aug-89	24.6	15.4	0.0	6.3	7.00	109	3.4	27.9	21.7	99	M	M	1174	1222
25-Aug-89	24.8	13.6	8.9	4.6	3.09	125	2.9	24.1	20.5	100	M	M	1183	1232
26-Aug-89	26.8	17.4	1.3	4.1	4.19	186	2.7	25.0	21.3	M	M	M	1195	1244
27-Aug-89	27.6	14.8	32.0	6.9	4.38	77	1.5	24.7	19.6	M	M	M	1206	1255
28-Aug-89	28.0	18.6	0.0	4.6	4.78	199	2.4	25.6	20.9	M	M	M	1219	1268
29-Aug-89	24.4	14.4	0.0	7.1	6.77	296	2.6	25.5	19.8	M	M	M	1229	1278
30-Aug-89	25.3	12.8	0.0	4.6	4.30	122	3.1	24.0	19.1	M	M	M	1238	1287
31-Aug-89	27.2	17.2	22.1	9.9	2.56	148	3.7	25.0	21.2	M	M	M	1250	1299
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	27.6	15.2	85.9	196.6	5.56	186	2.7	27.0	21.2	M	M	M	353	350

01-Sep-89	22.0	11.7	0.0	2.8	3.87	355	3.1	22.4	19.0	M	M	M	1257	1306
02-Sep-89	25.6	9.7	0.8	5.8	6.41	161	1.3	24.5	16.3	M	M	M	1264	1313
03-Sep-89	21.0	13.9	17.8	7.9	4.53	146	4.0	22.3	17.7	M	M	M	1272	1321
04-Sep-89	25.6	12.6	0.0	4.6	5.46	227	3.4	23.2	18.0	M	M	M	1281	1330
05-Sep-89	28.0	11.1	0.0	5.8	6.22	176	2.1	24.1	16.1	M	M	M	1291	1340
06-Sep-89	26.5	16.0	5.8	3.6	2.93	167	2.0	23.8	18.9	M	M	M	1302	1351
07-Sep-89	24.9	18.0	2.0	3.6	2.95	288	2.2	23.5	20.8	M	M	M	1313	1362
08-Sep-89	22.7	14.6	0.8	2.5	2.54	356	2.3	21.5	18.3	M	M	M	1322	1371
09-Sep-89	17.0	6.8	0.0	3.0	2.74	331	2.8	18.8	15.1	M	M	M	1324	1375
10-Sep-89	18.8	3.9	0.0	4.3	5.49	42	2.1	20.5	12.5	M	M	M	1325	1379
11-Sep-89	14.8	2.9	0.0	1.3	5.14	283	3.0	20.7	15.0	M	M	M	1325	1381
12-Sep-89	12.3	2.0	0.0	4.1	2.60	318	1.2	16.3	12.5	M	M	M	1325	1382
13-Sep-89	21.0	5.2	0.0	3.0	5.69	107	0.8	21.3	12.2	M	M	M	1328	1388
14-Sep-89	21.2	4.4	0.0	3.6	6.17	204	1.2	22.2	13.2	M	M	M	1331	1394
15-Sep-89	21.9	5.6	0.0	4.8	6.00	188	2.2	21.8	14.1	M	M	M	1335	1399
16-Sep-89	24.9	7.5	0.0	5.1	5.79	183	2.9	22.4	14.7	82	M	M	1341	1407
17-Sep-89	28.2	11.4	0.0	5.1	5.64	169	3.3	23.7	16.3	83	M	M	1351	1417
18-Sep-89	29.2	15.6	0.0	8.6	5.71	177	5.0	24.3	18.3	87	M	M	1363	1429
19-Sep-89	25.1	16.8	10.2	4.1	2.67	192	3.5	22.1	19.1	83	M	M	1374	1440
20-Sep-89 *	25.7	12.8	0.0	5.1	3.70	158	1.9	21.8	M	M	M	M	1377	1448
21-Sep-89	26.0	13.1	0.3	5.1	4.79	176	2.9	22.7	16.2	M	M	M	1387	1458
22-Sep-89	18.9	1.3	0.0	7.6	4.47	341	5.9	20.5	14.6	M	M	M	1387	1462
23-Sep-89	12.7	-1.4	0.0	4.3	5.64	333	2.1	18.5	10.7	M	M	M	1387	1463
24-Sep-89	18.0	0.5	0.0	6.1	5.53	196	4.3	17.2	10.4	M	M	M	1387	1467
25-Sep-89	19.8	4.0	0.0	5.3	5.36	312	3.9	18.5	12.0	M	M	M	1389	1472
26-Sep-89	17.8	-2.1	0.0	3.3	5.48	94	1.0	18.9	10.7	M	M	M	1389	1476
27-Sep-89	22.3	6.3	0.0	8.4	5.28	186	4.8	18.4	12.0	M	M	M	1393	1482
28-Sep-89	27.4	11.4	0.0	6.3	4.67	227	4.3	20.0	13.8	M	M	M	1402	1492
29-Sep-89	24.7	5.1	0.0	5.1	5.15	80	1.4	21.1	14.0	M	M	M	1407	1499
30-Sep-89	27.1	11.1	0.0	7.6	5.09	184	4.5	20.6	14.8	M	M	M	1416	1508
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	22.4	8.4	37.6	147.8	4.79	212	2.8	21.2	M	M	M	M	166	209

WASECA

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	29.2	6.8	0.0	10.9	4.61	206	5.8	21.3	16.2	M	M	M	1424	1518
02-Oct-89	8.1	-1.4	0.0	1.5	2.98	325	5.1	18.5	12.3	M	M	M	1424	1518
03-Oct-89	10.2	-3.9	0.0	4.6	5.14	333	1.9	14.8	9.1	M	M	M	1424	1518
04-Oct-89	15.7	-6.0	1.3	2.3	3.53	178	2.5	13.8	7.9	M	M	M	1424	1521
05-Oct-89	18.4	2.7	0.0	3.6	2.93	250	4.1	15.2	11.4	M	M	M	1425	1525
06-Oct-89	11.3	0.6	0.0	4.1	4.94	319	3.7	13.8	9.2	M	M	M	1425	1525
07-Oct-89	11.4	-4.9	0.0	2.5	4.31	306	1.8	12.9	7.7	M	M	M	1425	1526
08-Oct-89	14.6	-5.7	0.0	3.0	4.63	50	1.3	13.5	6.7	M	M	M	1425	1529
09-Oct-89 *	14.4	0.6	0.3	M	M	M	M	M	M	M	M	M	1425	1531
10-Oct-89 *	20.0	-0.6	0.0	M	M	M	M	M	M	M	M	M	1425	1536
11-Oct-89	25.5	8.7	0.0	6.1	0.60	313	4.8	16.8	14.4	56	24	0.73	1432	1543
12-Oct-89	22.7	0.3	0.0	M	4.45	216	3.3	15.8	10.3	84	16	0.53	1434	1550
13-Oct-89	27.1	7.3	0.0	M	3.83	133	2.9	17.3	11.9	69	15	0.78	1441	1558
14-Oct-89	25.6	8.3	0.0	M	3.96	70	2.8	17.8	12.9	87	23	0.94	1448	1566
15-Oct-89	21.5	8.5	0.5	M	2.56	10	3.6	17.1	13.9	91	45	1.01	1453	1572
16-Oct-89	8.5	0.6	0.0	M	2.35	10	5.4	14.4	10.1	93	67	0.69	1453	1572
17-Oct-89	7.3	-2.4	0.0	M	3.00	5	3.2	11.2	8.0	84	46	0.47	1453	1572
18-Oct-89	7.2	-3.8	0.0	M	2.77	26	2.5	9.6	5.5	93	37	0.40	1453	1572
19-Oct-89	6.9	-4.6	0.0	M	4.21	4	2.2	9.4	4.9	83	38	0.37	1453	1572
20-Oct-89	12.9	-8.6	0.0	M	3.49	293	1.7	9.4	3.7	84	21	0.33	1453	1573
21-Oct-89	19.6	-4.1	0.0	M	4.04	129	1.2	11.4	4.6	66	24	0.44	1453	1578
22-Oct-89	22.6	5.9	0.0	M	3.10	181	5.8	12.3	7.3	54	24	0.66	1457	1584
23-Oct-89	26.0	7.2	0.0	M	3.28	214	1.9	15.4	9.8	71	M	M	1464	1592
24-Oct-89	25.8	6.5	0.0	M	3.62	180	3.4	15.8	10.0	91	39	1.19	1470	1600
25-Oct-89	26.8	14.6	0.0	M	3.37	179	5.7	17.6	13.1	92	M	M	1480	1611
26-Oct-89	26.0	14.8	0.0	M	3.24	171	7.4	18.2	14.9	82	M	M	1491	1621
27-Oct-89	19.7	9.2	0.0	M	3.26	199	5.4	17.5	14.7	M	M	M	1495	1626
28-Oct-89	16.5	9.4	1.8	M	0.81	154	3.8	15.0	13.6	M	M	M	1498	1630
29-Oct-89	17.9	6.7	1.3	M	1.57	228	5.1	15.2	12.5	87	M	M	1500	1633
30-Oct-89	6.8	1.4	0.0	M	0.68	352	4.6	13.0	7.8	M	M	M	1500	1633
31-Oct-89	7.0	-5.8	0.0	M	3.42	290	1.9	9.3	5.1	73	M	M	1500	1633
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	17.2	2.2	5.1	M	M	M	M	M	M	M	M	M	84	125

WESTPORT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Apr-89	15.7	-2.1	5.6	M	1.61	200	5.0	3.2	2.1	94	87	0.82	0	3
02-Apr-89	12.6	-1.6	5.8	M	3.21	152	3.4	7.6	2.1	93	66	0.80	0	4
03-Apr-89	11.7	3.6	7.9	M	0.87	270	4.6	4.9	2.9	93	88	0.92	0	5
04-Apr-89	6.2	-0.5	0.8	M	2.10	339	6.1	6.0	2.3	93	81	0.68	0	5
05-Apr-89	9.5	-2.7	0.0	M	4.76	309	3.2	8.7	2.2	95	70	0.65	0	5
06-Apr-89	8.0	-1.9	0.0	M	6.02	348	3.7	9.9	2.4	94	47	0.54	0	5
07-Apr-89	6.0	-3.4	0.0	M	2.95	220	3.7	5.9	2.5	95	69	0.58	0	5
08-Apr-89	-3.4	-9.5	2.8	M	5.63	333	6.9	3.4	2.3	94	75	0.31	0	5
09-Apr-89	-1.4	-10.3	0.0	M	6.59	323	7.3	2.5	2.1	86	66	0.31	0	5
10-Apr-89	4.8	-7.5	0.0	M	6.13	275	4.6	2.2	2.1	87	50	0.40	0	5
11-Apr-89	3.6	-3.6	0.0	M	6.13	329	5.0	7.1	2.1	95	54	0.46	0	5
12-Apr-89	7.6	-6.0	0.0	M	6.43	335	1.9	10.5	2.3	93	42	0.43	0	5
13-Apr-89	14.9	-0.0	0.5	M	4.70	213	5.0	9.9	2.9	93	60	0.75	0	7
14-Apr-89	11.5	-3.0	0.0	M	5.68	316	4.6	10.1	3.3	95	46	0.64	0	8
15-Apr-89	16.1	-3.6	0.8	M	5.76	196	5.7	10.3	3.0	95	42	0.66	0	11
16-Apr-89	15.9	0.3	1.0	M	4.05	349	4.3	11.8	5.4	94	39	0.79	0	14
17-Apr-89	4.3	-6.2	0.5	M	6.84	341	4.9	10.4	3.2	96	36	0.34	0	14
18-Apr-89	11.8	-2.2	0.0	M	6.40	281	4.5	10.8	3.6	95	34	0.58	0	15
19-Apr-89	20.3	-3.0	0.0	M	6.22	240	3.3	13.6	3.3	93	36	0.70	0	20
20-Apr-89	20.2	4.0	0.0	M	5.68	86	3.5	14.8	5.4	67	31	0.61	2	25
21-Apr-89	21.5	1.9	2.5	M	6.32	107	4.0	15.7	5.9	92	40	0.91	4	31
22-Apr-89	15.3	9.6	0.0	M	2.70	127	7.0	13.3	10.3	93	66	1.22	6	34
23-Apr-89	19.8	8.9	0.0	M	4.43	131	6.4	15.5	9.2	86	64	1.24	11	39
24-Apr-89	24.2	8.4	0.8	M	5.45	126	3.4	18.5	10.0	92	52	1.28	17	46
25-Apr-89	21.0	10.1	3.0	M	4.37	10	3.6	18.1	11.8	93	70	1.37	22	51
26-Apr-89	14.0	7.4	0.0	M	1.61	58	3.9	13.7	10.5	94	87	1.11	23	53
27-Apr-89	11.7	5.3	6.6	M	2.30	57	5.8	12.4	9.3	93	83	1.01	23	54
28-Apr-89	5.3	1.8	22.9	M	0.71	60	5.1	9.4	6.4	95	91	0.76	23	54
29-Apr-89	6.3	1.0	2.5	M	2.62	26	5.1	9.0	5.2	95	84	0.69	23	54
30-Apr-89	8.3	-0.2	0.5	M	4.64	349	2.7	13.2	5.5	95	68	0.69	23	54

MEAN AIR	MEAN AIR	TOTL PRE	TOTL PAN	MEAN SOL	MEAN WIND DIRN	MEAN WIND SP	MEAN MAX SOIL	MEAN MIN SOIL	MEAN MAX RH	MEAN MIN RH	MEAN VP	TOTL GDD 10	TOTL GDD 1030
11.4	-0.2	64.5	M	4.43	217	4.6	10.1	4.7	92	61	0.74	23	54

01-May-89	11.5	-0.2	0.0	M	3.89	279	1.8	12.9	5.7	95	46	0.64	23	55
02-May-89	16.2	-1.3	0.0	M	5.89	268	3.1	13.9	4.8	95	40	0.73	23	58
03-May-89	19.7	2.6	0.0	M	7.12	218	4.3	15.8	6.4	90	28	0.78	24	63
04-May-89	13.9	1.7	10.4	M	1.78	315	4.8	13.3	8.9	92	68	1.01	24	65
05-May-89	2.7	-3.2	0.0	M	6.79	329	9.5	9.2	5.0	90	49	0.42	24	65
06-May-89	12.4	-3.2	0.0	M	6.67	338	5.2	12.2	3.8	80	43	0.53	24	66
07-May-89	19.4	-2.9	0.0	M	6.77	176	2.9	15.4	4.8	93	16	0.51	24	71
08-May-89	16.2	7.2	12.7	M	0.87	89	4.8	11.0	7.4	93	49	1.16	26	74
09-May-89	21.4	8.3	0.0	M	7.76	284	2.4	17.9	5.4	92	29	1.11	31	79
10-May-89	23.6	4.4	0.0	M	7.85	129	3.1	20.0	8.8	91	23	0.88	35	86
11-May-89	24.1	8.0	0.0	M	7.29	159	5.5	18.8	10.6	72	24	0.81	41	93
12-May-89	24.1	5.1	0.0	M	8.05	105	3.1	21.9	9.9	77	15	0.69	46	100
13-May-89	23.0	4.6	0.0	M	7.67	74	2.9	22.8	10.4	74	27	0.81	49	107
14-May-89	23.8	8.1	0.0	M	7.42	74	2.3	24.7	13.2	92	43	1.28	55	114
15-May-89	27.9	10.4	0.0	M	7.26	48	1.6	27.2	15.4	91	32	1.31	64	123
16-May-89	28.2	10.7	0.0	M	6.72	150	3.6	26.8	15.7	90	32	1.30	74	132
17-May-89	27.2	13.9	6.4	M	4.61	177	5.6	22.0	17.0	91	35	1.50	84	143
18-May-89	25.3	15.6	5.3	M	1.26	140	4.5	18.8	17.1	91	88	1.78	95	153
19-May-89	30.6	7.1	0.0	M	3.95	264	4.1	21.9	15.5	97	74	2.41	104	163
20-May-89	22.2	5.5	0.0	M	8.17	272	4.1	21.0	12.2	91	25	0.90	108	169
21-May-89	25.5	4.3	0.0	M	6.55	174	2.9	21.7	12.2	92	21	0.94	112	177
22-May-89	26.5	11.6	15.7	M	6.12	188	4.2	24.3	14.7	91	45	1.46	121	186
23-May-89	25.4	12.3	0.0	M	6.75	153	4.1	24.7	15.4	91	67	1.85	130	195
24-May-89	33.4	10.1	10.7	M	0.81	23	5.2	19.6	15.0	95	84	2.51	142	205
25-May-89	20.6	7.4	0.0	M	7.42	254	7.0	19.3	12.1	92	27	0.93	146	210
26-May-89	13.1	3.1	0.0	M	5.07	314	6.3	16.2	11.6	93	49	0.84	146	212
27-May-89	22.8	1.8	0.0	M	8.41	185	4.0	21.3	8.9	93	24	0.80	148	218
28-May-89	25.3	13.2	0.0	M	5.61	176	6.4	22.4	13.5	89	46	1.26	158	228
29-May-89	15.6	7.6	10.7	M	1.28	73	4.7	18.1	14.0	92	88	1.32	159	230
30-May-89	17.4	7.2	0.8	M	3.17	43	4.8	18.7	12.7	92	80	1.22	162	234
31-May-89	18.6	9.9	0.0	M	4.03	335	3.2	20.8	14.0	92	61	1.24	166	238

MEAN AIR	MEAN AIR	TOTL PRE	TOTL PAN	MEAN SOL	MEAN WIND DIRN	MEAN WIND SP	MEAN MAX SOIL	MEAN MIN SOIL	MEAN MAX RH	MEAN MIN RH	MEAN VP	TOTL GDD 10	TOTL GDD 1030
21.2	6.2	72.6	M	5.58	187	4.3	19.2	11.0	90	44	1.13	143	184

WESTPORT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Jun-89	21.6	8.6	0.0	M	7.95	268	3.3	25.2	13.4	92	47	1.24	171	244
02-Jun-89	22.9	10.3	0.0	M	5.43	291	3.9	25.5	15.2	87	46	1.32	178	251
03-Jun-89	21.2	7.9	0.0	M	8.47	337	3.4	29.4	14.6	92	29	1.01	182	256
04-Jun-89	20.8	6.8	0.0	M	8.17	329	3.5	30.1	15.4	78	29	0.81	186	262
05-Jun-89	26.6	9.3	0.0	M	4.83	266	3.7	26.2	16.8	91	33	1.15	194	270
06-Jun-89	27.0	10.9	0.0	M	8.20	92	2.7	30.9	17.1	92	37	1.37	203	279
07-Jun-89	23.3	11.2	0.0	M	5.70	283	5.7	26.8	20.4	92	62	1.57	210	286
08-Jun-89	12.5	6.2	0.0	M	2.21	12	4.5	20.9	15.8	93	84	1.08	210	288
09-Jun-89	20.3	3.4	0.0	M	8.64	14	3.1	27.2	12.9	93	37	0.93	212	293
10-Jun-89	24.4	4.4	38.1	M	8.24	162	3.2	28.3	15.4	91	27	0.99	216	300
11-Jun-89	24.4	11.3	0.8	M	3.25	141	4.9	23.9	17.9	92	56	1.50	224	308
12-Jun-89	35.7	8.8	3.0	M	4.20	281	5.2	22.5	16.0	93	81	2.30	236	318
13-Jun-89	14.4	6.8	0.0	M	2.86	27	3.5	18.4	13.7	92	78	1.10	237	320
14-Jun-89	18.6	6.5	0.0	M	6.57	26	4.7	21.7	13.3	92	39	1.05	240	324
15-Jun-89	23.8	4.0	0.0	M	8.80	326	1.7	28.7	12.4	93	36	1.03	243	331
16-Jun-89	25.3	8.3	0.0	M	8.03	146	2.5	29.8	16.4	92	30	1.14	250	339
17-Jun-89	30.4	10.8	0.0	M	6.43	195	4.1	29.1	17.9	95	10	1.50	261	349
18-Jun-89	28.1	14.7	1.3	M	8.21	305	3.2	31.9	20.5	98	34	1.65	272	361
19-Jun-89	32.3	13.8	0.0	M	8.43	157	4.6	32.6	20.7	97	33	1.64	285	373
20-Jun-89	35.1	21.3	0.0	M	7.26	163	10.0	32.4	23.6	59	35	1.73	303	388
21-Jun-89	31.4	17.3	0.0	M	4.86	190	6.0	30.3	23.5	98	52	2.35	318	402
22-Jun-89	23.5	13.4	0.0	M	5.07	330	3.2	29.4	20.4	98	49	1.59	326	410
23-Jun-89	26.7	12.2	0.0	M	7.42	298	2.1	33.1	20.5	99	41	1.54	336	420
24-Jun-89	27.3	11.6	7.1	M	4.53	162	1.9	29.2	20.5	100	40	1.66	345	429
25-Jun-89	22.9	15.7	13.2	M	5.13	232	3.9	27.3	20.9	100	74	2.05	354	438
26-Jun-89	37.9	12.6	0.0	M	6.43	252	3.4	26.2	20.3	100	50	2.37	370	450
27-Jun-89	27.6	10.4	0.0	M	8.48	277	2.7	31.9	17.0	98	42	1.57	379	459
28-Jun-89	27.9	14.0	0.0	M	7.93	114	4.7	32.2	21.1	93	61	1.87	390	470
29-Jun-89	31.8	18.2	7.1	M	5.72	180	6.9	30.6	22.8	97	45	2.27	405	484
30-Jun-89	30.8	19.0	0.0	M	7.90	332	1.9	33.2	23.2	100	53	2.41	420	498

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
25.9	11.0	70.6	M	6.51	206	3.9	28.2	18.0	93	46	1.53	253	274	

01-Jul-89	32.1	17.7	0.0	M	7.58	169	2.5	35.4	23.1	100	47	2.42	434	512
02-Jul-89	32.5	17.1	0.0	M	7.42	192	4.5	34.6	24.1	100	55	2.50	449	526
03-Jul-89	31.3	15.8	0.0	M	7.92	324	2.5	35.5	24.4	100	37	2.07	463	539
04-Jul-89	34.1	16.1	0.0	M	8.28	161	3.5	36.8	24.6	100	34	2.08	478	552
05-Jul-89	35.8	22.0	0.0	M	8.16	185	6.4	36.4	26.4	91	42	2.50	497	568
06-Jul-89	30.3	18.5	10.2	M	6.69	0	4.2	34.4	26.6	100	50	2.30	511	582
07-Jul-89	29.2	14.5	0.0	M	7.96	82	2.6	36.1	23.9	95	35	1.57	523	594
08-Jul-89	31.1	16.0	0.0	M	7.10	151	3.6	34.0	23.7	100	62	2.39	537	607
09-Jul-89	32.0	18.7	0.0	M	5.78	93	4.4	33.4	24.8	100	65	2.86	552	621
10-Jul-89	31.2	16.2	0.0	M	7.84	63	2.6	36.9	23.9	100	47	2.11	566	634
11-Jul-89	26.4	18.0	0.0	M	3.57	75	2.7	30.9	25.7	97	70	2.22	578	646
12-Jul-89	30.3	16.1	0.0	M	7.05	22	2.1	35.8	23.8	100	57	2.21	591	659
13-Jul-89	26.2	14.7	0.0	M	7.61	51	2.4	34.4	24.3	100	45	1.64	602	670
14-Jul-89	28.3	11.6	0.0	M	6.71	25	1.7	34.2	23.4	100	38	1.60	611	680
15-Jul-89	29.3	11.3	0.0	M	7.70	35	1.7	34.7	22.7	100	30	1.46	622	690
16-Jul-89	29.7	12.0	0.0	M	6.46	241	1.7	33.3	23.4	100	36	1.59	633	701
17-Jul-89	27.4	12.4	12.2	M	5.47	171	2.8	31.2	23.3	100	48	1.88	642	711
18-Jul-89	24.4	15.8	1.3	M	4.25	42	3.4	26.1	22.2	100	73	2.08	653	721
19-Jul-89	28.9	13.8	0.0	M	7.53	16	2.5	33.0	19.4	100	36	1.84	664	732
20-Jul-89	31.3	13.5	0.0	M	6.78	5	2.1	33.9	21.4	97	36	1.82	676	744
21-Jul-89	31.9	14.1	0.0	M	6.88	78	2.0	35.1	22.7	100	39	1.93	689	756
22-Jul-89	30.2	12.6	0.0	M	7.37	128	2.0	34.7	23.0	100	39	1.73	701	767
23-Jul-89	29.4	13.9	0.0	M	6.01	151	2.6	32.7	23.5	100	55	2.08	712	779
24-Jul-89	30.1	16.6	0.0	M	5.84	179	3.4	32.1	23.9	100	55	2.26	726	792
25-Jul-89	31.7	17.2	0.0	M	6.82	194	3.7	33.7	24.0	100	48	2.37	740	806
26-Jul-89	32.8	19.4	0.0	M	7.39	207	3.5	35.3	25.3	100	46	2.52	756	821
27-Jul-89	29.0	14.5	0.0	M	7.66	11	3.7	35.7	25.9	95	40	1.88	768	832
28-Jul-89	28.2	13.0	5.1	M	6.36	116	4.1	32.8	23.9	100	53	1.82	779	843
29-Jul-89	28.1	18.4	0.0	M	3.28	145	2.7	29.2	24.5	100	78	2.45	792	856
30-Jul-89	30.4	17.5	0.0	M	4.75	195	2.2	32.4	23.3	100	52	2.31	806	870
31-Jul-89	31.9	17.5	0.0	M	6.54	176	2.2	35.8	24.6	100	48	2.52	820	884

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
30.2	15.7	28.7	M	6.67	119	3.0	33.9	23.9	99	48	2.10	401	372	

## WESTPORT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Aug-89	32.7	19.9	0.0	M	7.08	201	4.0	35.2	25.1	98	54	2.61	837	899
02-Aug-89	32.2	19.6	0.0	M	6.54	189	6.2	33.3	25.2	96	61	2.69	853	913
03-Aug-89	32.9	22.6	0.0	M	5.99	211	4.3	35.2	26.3	97	65	2.95	870	930
04-Aug-89	34.9	18.4	0.0	M	6.30	277	3.5	34.9	25.7	99	25	1.92	887	944
05-Aug-89	23.3	14.5	0.0	M	5.41	314	5.6	29.9	24.4	94	57	1.61	896	953
06-Aug-89	21.4	8.1	0.0	M	5.48	358	4.3	28.3	21.0	99	42	1.12	901	958
07-Aug-89	25.4	7.1	0.0	M	6.87	337	2.8	30.6	19.1	100	37	1.19	907	966
08-Aug-89	29.0	9.3	0.0	M	6.68	316	2.2	31.9	20.4	100	23	1.20	916	976
09-Aug-89	30.6	8.4	0.0	M	6.87	184	2.0	33.2	21.0	97	24	1.25	926	986
10-Aug-89	30.3	11.7	0.0	M	5.99	190	3.5	31.6	22.1	96	40	1.58	937	997
11-Aug-89	29.8	13.8	32.5	M	6.03	176	3.7	32.0	23.3	95	43	1.86	948	1008
12-Aug-89	29.3	17.2	5.1	M	5.97	195	3.1	29.3	22.4	100	60	2.24	962	1021
13-Aug-89	30.3	14.3	1.5	M	5.61	284	2.2	31.9	20.5	100	51	2.06	974	1034
14-Aug-89	23.8	15.4	0.0	M	4.14	18	2.8	27.8	21.6	100	65	1.93	983	1043
15-Aug-89	25.4	12.1	0.0	M	5.21	69	1.5	30.3	19.9	100	49	1.64	992	1052
16-Aug-89	26.9	9.6	0.0	M	6.23	162	1.7	31.6	19.2	100	42	1.50	1000	1060
17-Aug-89	27.4	11.0	0.0	M	6.55	153	3.7	31.2	20.1	98	49	1.65	1009	1070
18-Aug-89	28.3	14.5	38.1	M	6.52	170	5.9	30.6	21.2	96	45	1.72	1021	1081
19-Aug-89 *	26.7	16.7	24.1	M	3.64	251	3.7	25.8	20.7	M	60	M	1033	1093
20-Aug-89	21.9	12.6	0.0	M	6.28	319	2.8	25.4	18.4	100	65	1.67	1040	1100
21-Aug-89	26.3	11.9	0.0	M	4.34	132	3.8	24.9	17.7	99	70	1.94	1049	1109
22-Aug-89	30.0	14.2	0.0	M	6.00	22	1.9	28.7	18.6	100	48	2.07	1061	1121
23-Aug-89	27.4	15.2	0.0	M	6.47	112	3.4	28.7	19.6	99	68	2.18	1072	1132
24-Aug-89	24.8	15.5	0.0	M	3.93	138	4.4	26.2	20.9	99	63	2.01	1082	1143
25-Aug-89	23.0	14.0	0.0	M	2.58	146	4.3	23.4	18.6	100	87	2.07	1091	1151
26-Aug-89	38.5	18.5	91.7	M	3.72	96	2.3	27.3	20.2	99	59	2.91	1109	1165
27-Aug-89	24.3	12.3	0.0	M	5.24	68	2.2	25.8	18.5	99	48	1.64	1118	1174
28-Aug-89	26.6	14.3	0.0	M	4.74	199	3.2	26.8	18.7	98	76	2.16	1128	1184
29-Aug-89	21.8	11.6	0.0	M	6.49	291	4.2	23.0	17.3	100	53	1.48	1135	1191
30-Aug-89	17.9	10.2	3.8	M	2.60	102	3.7	20.0	16.4	100	83	1.55	1139	1195
31-Aug-89	21.3	16.2	13.5	M	1.28	82	4.5	20.7	18.1	99	92	2.00	1148	1204

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
27.2	13.9	210.3	M	5.38	186	3.5	28.9	20.7	95	55	1.82	328	320	

01-Sep-89	23.3	12.3	0.0	M	4.42	5	2.4	24.4	17.9	100	58	1.75	1156	1211
02-Sep-89	24.2	8.8	0.0	M	5.81	159	1.7	25.8	15.5	100	50	1.62	1162	1218
03-Sep-89	19.4	14.3	36.8	M	1.01	143	5.6	19.8	17.6	99	91	1.83	1169	1225
04-Sep-89	23.7	11.4	0.0	M	5.67	255	3.9	23.1	17.9	99	54	1.75	1176	1233
05-Sep-89	27.0	9.5	0.0	M	6.04	185	3.2	24.1	15.1	100	53	1.70	1185	1241
06-Sep-89	24.1	15.1	0.8	M	1.54	167	3.7	22.3	17.6	99	90	2.32	1194	1251
07-Sep-89	23.0	11.4	0.0	M	2.85	284	2.1	22.1	17.2	99	57	1.63	1201	1258
08-Sep-89	18.1	9.8	0.0	M	2.81	306	2.6	19.2	15.1	99	71	1.46	1205	1262
09-Sep-89	17.2	4.7	0.0	M	3.37	309	3.1	19.0	13.8	100	63	1.20	1206	1266
10-Sep-89	15.5	2.6	7.6	M	2.36	158	1.6	16.3	10.8	100	57	1.07	1206	1268
11-Sep-89	12.4	5.9	0.0	M	4.40	279	4.3	16.7	11.9	100	52	0.95	1206	1270
12-Sep-89	16.8	3.4	0.0	M	4.10	323	2.6	18.9	11.5	100	52	1.01	1206	1273
13-Sep-89	17.5	1.2	0.0	M	5.61	216	2.0	19.9	9.5	100	49	0.94	1206	1277
14-Sep-89	21.0	2.3	0.0	M	5.64	200	2.7	20.1	9.9	100	41	1.03	1208	1282
15-Sep-89	22.4	5.3	0.0	M	5.56	184	3.5	21.2	11.1	99	46	1.19	1212	1289
16-Sep-89	25.6	8.8	0.0	M	5.29	186	2.3	23.9	12.8	100	59	1.57	1219	1296
17-Sep-89	27.9	8.8	0.0	M	5.10	161	3.9	24.8	14.5	100	63	1.90	1227	1305
18-Sep-89	29.2	17.2	0.0	M	5.21	176	6.4	26.2	17.9	97	41	1.86	1241	1318
19-Sep-89	20.3	15.4	4.6	M	1.34	205	2.5	21.1	18.6	99	79	1.93	1248	1326
20-Sep-89 *	20.6	16.2	8.9	M	1.27	115	2.5	20.9	18.2	99	90	2.66	1257	1335
21-Sep-89	24.3	13.3	0.0	M	3.47	99	3.7	23.4	17.8	97	73	1.95	1266	1344
22-Sep-89	13.3	1.5	0.0	M	4.34	347	6.8	18.5	10.3	97	48	0.82	1266	1345
23-Sep-89	12.0	-0.9	0.0	M	5.20	308	2.8	18.4	7.5	98	44	0.62	1266	1346
24-Sep-89	18.8	1.5	0.0	M	4.95	197	5.2	18.4	8.2	88	26	0.63	1266	1351
25-Sep-89	14.1	0.1	0.0	M	4.76	326	4.2	19.0	10.7	99	49	0.88	1266	1353
26-Sep-89	15.5	-2.6	0.0	M	4.93	147	2.3	19.8	7.7	100	44	0.71	1266	1355
27-Sep-89	25.0	6.3	0.0	M	4.59	189	6.6	21.0	10.5	76	33	0.88	1271	1363
28-Sep-89	26.1	8.0	0.0	M	4.47	271	3.9	23.5	13.6	85	36	1.08	1279	1371
29-Sep-89	22.9	3.4	0.0	M	4.56	170	2.3	23.4	11.9	100	36	0.97	1282	1377
30-Sep-89	28.6	14.4	0.0	M	4.37	192	6.9	24.2	15.3	60	32	1.14	1293	1389

MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
21.0	7.6	58.7	M	4.17	209	3.6	21.3	13.6	96	54	1.37	145	185	

WESTPORT

DATE	MAX AIR	MIN AIR	PRE	PAN	SOL	WIND DIRN	WIND SP	MAX SOIL	MIN SOIL	MAX RH	MIN RH	VP	GDD 10	GDD 1030
01-Oct-89	27.2	2.9	0.0	M	2.38	245	7.2	22.9	13.8	98	40	1.18	1298	1398
02-Oct-89	3.8	-5.8	0.0	M	1.83	332	5.7	13.9	7.5	96	63	0.54	1298	1398
03-Oct-89	8.4	-7.7	0.0	M	4.63	302	2.2	15.2	4.9	100	42	0.42	1298	1398
04-Oct-89	13.1	-5.9	0.0	M	2.72	177	2.8	13.5	5.2	99	28	0.49	1298	1399
05-Oct-89	11.9	1.5	0.0	M	1.92	293	4.2	12.9	8.2	95	62	0.85	1298	1400
06-Oct-89	9.5	-2.6	0.0	M	4.14	320	4.7	14.5	6.7	93	46	0.56	1298	1400
07-Oct-89	11.6	-4.1	0.0	M	4.11	294	2.1	15.1	5.3	100	30	0.50	1298	1401
08-Oct-89	14.0	-6.8	0.0	M	3.90	158	1.4	16.2	5.2	99	24	0.43	1298	1403
09-Oct-89	15.4	-1.4	0.0	M	2.71	300	3.7	14.4	6.8	96	43	0.66	1298	1406
10-Oct-89	18.2	0.8	0.0	M	3.37	211	3.2	16.9	7.4	100	34	0.76	1298	1410
11-Oct-89	22.3	1.6	0.0	M	2.70	288	3.7	17.0	9.6	85	37	0.79	1300	1416
12-Oct-89	21.9	-0.3	0.0	M	3.28	244	3.2	17.3	7.3	88	23	0.67	1301	1422
13-Oct-89	24.4	5.0	0.0	M	3.35	123	1.7	20.4	10.2	89	22	0.76	1306	1429
14-Oct-89	21.7	4.3	0.0	M	3.20	60	2.0	19.2	10.1	89	31	0.77	1309	1435
15-Oct-89	12.3	3.8	0.0	M	1.16	358	4.3	13.3	10.3	91	55	0.78	1309	1436
16-Oct-89	8.2	-4.6	0.0	M	3.67	11	4.9	14.9	7.9	95	53	0.57	1309	1436
17-Oct-89	7.4	-7.0	0.0	M	2.79	351	2.2	12.0	4.6	100	47	0.47	1309	1436
18-Oct-89 *	7.2	-3.3	0.0	M	M	M	M	M	M	M	M	M	1309	1436
19-Oct-89 *	8.9	-5.0	0.0	M	M	M	M	M	M	M	M	M	1309	1436
20-Oct-89 *	15.6	-2.8	0.0	M	M	M	M	M	M	M	M	M	1309	1439
21-Oct-89 *	17.2	-1.1	0.0	M	M	M	M	M	M	M	M	M	1309	1442
22-Oct-89 *	21.7	6.7	0.0	M	M	M	M	M	M	M	M	M	1313	1448
23-Oct-89 *	24.4	2.2	0.0	M	M	M	M	M	M	M	M	M	1316	1455
24-Oct-89	24.8	12.9	0.0	M	1.48	162.3	3.41	18.3	13.6	70.0	30.6	0.95	1325	1464
25-Oct-89	26.9	10.9	0.0	M	2.95	172.8	4.59	20.0	12.3	97.0	45.2	1.55	1334	1473
26-Oct-89	25.5	16.2	0.0	M	2.32	169.5	7.56	20.2	15.6	91.6	50.6	1.66	1345	1484
27-Oct-89	17.3	3.3	52.1	M	3.15	218.2	5.99	18.6	12.2	85.8	38.6	0.92	1345	1488
28-Oct-89 *	18.9	-1.5	0.0	M	2.97	92.2	2.60	17.2	8.5	99.1	27.8	1.04	1345	1488
29-Oct-89	15.8	0.2	0.0	M	0.65	354.0	4.52	13.3	8.2	99.6	84.7	1.12	1345	1490
30-Oct-89	5.3	-3.0	0.0	M	2.26	349.0	2.72	9.3	5.6	95.5	50.7	0.51	1345	1490
31-Oct-89	4.8	-4.9	0.0	M	2.84	329.9	2.30	8.3	4.2	99.3	63.1	0.51	1345	1490
	MEAN	MEAN	TOTL	TOTL	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	TOTL	TOTL
	15.7	0.1	52.1	M	2.27	191	3.0	12.7	6.8	76	35	0.63	51	101

