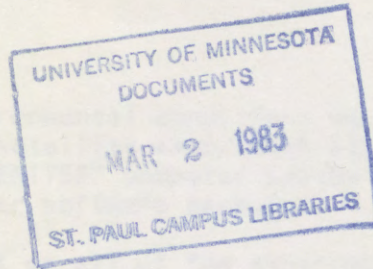




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Agricultural Extension Service
University of Minnesota



Data From:

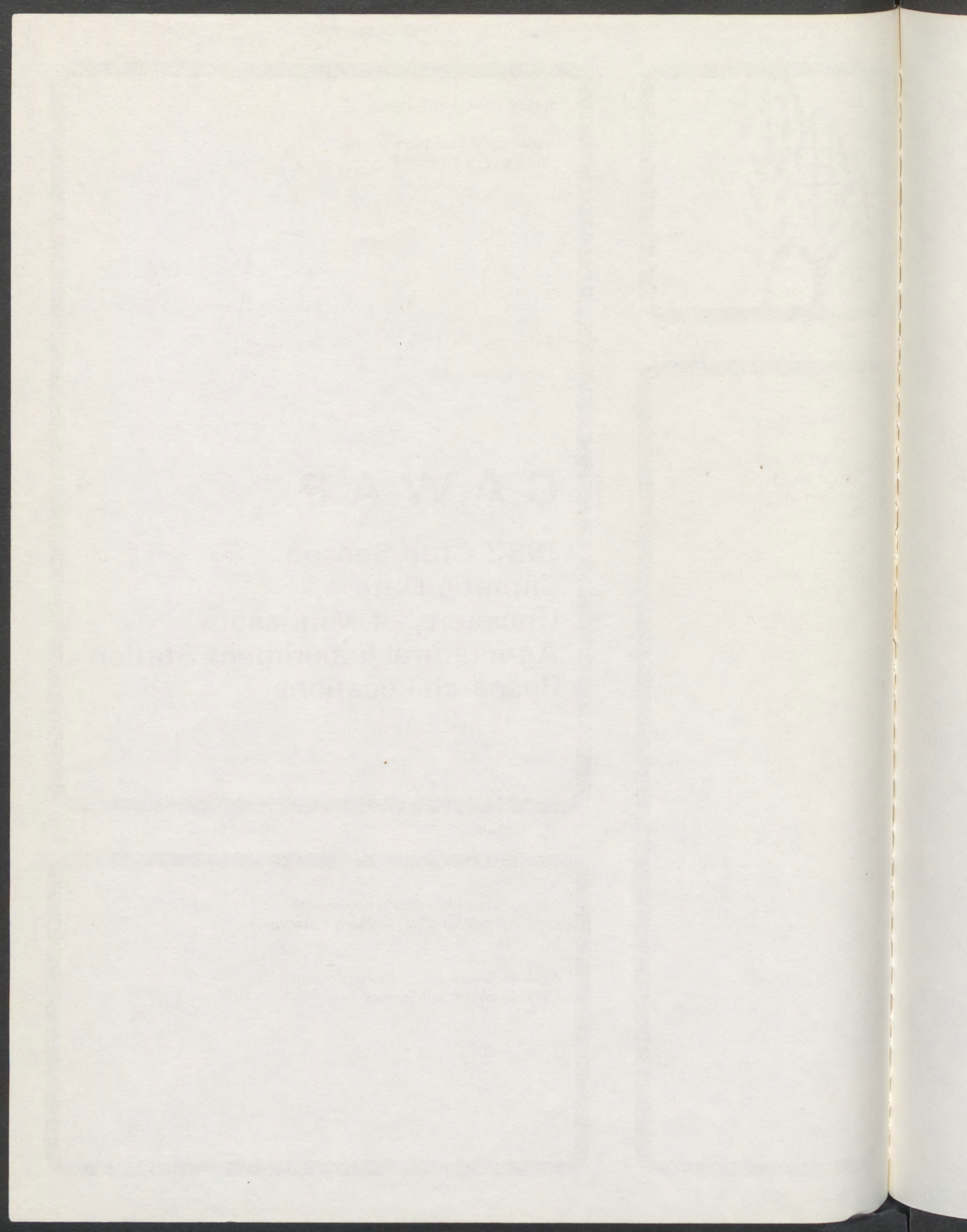
- Becker
- Crookston
- Grand Rapids
- Lamberton
- Morris
- Rosemount
- St. Paul
- Staples
- Waseca

C.A.W.A.P.*

1982 Crop Season
Climatic Data
University of Minnesota
Agricultural Experiment Station
Research Locations

*University of Minnesota Cooperative
Agricultural Weather Advisory Program

Mark W. Seeley and Gregory S. Spoden
Department of Soil Science



UNIVERSITY OF MINNESOTA AGRICULTURAL EXPERIMENT STATION
AGRICULTURAL CLIMATIC DATA
1982

The following data summarize the environmental conditions at nine University of Minnesota branch and satellite experiment stations in 1982. These data are stored on the "MERITSS" computer system and are accessible by using the "ENVDATA" computer software package.

These parameters were measured at most or all of the experiment stations:

MAX	Daily maximum temperature in degrees fahrenheit
MIN	Daily minimum temperature in degrees fahrenheit
PRECIP	Daily precipitation in inches
WIND	Daily wind run in miles per day
SOLAR	Daily incoming short wave solar radiation in langleys (cal/cm2) per day
PAN	Daily pan evaporation in inches
SOILMAX	Daily maximum soil temperature at 4 inches in degrees fahrenheit
SOILMIN	Daily minimum soil temperature at 4 inches in degrees fahrenheit
DEGREE DAYS	Accumulated growing degree days with base temperatures corresponding to major crops of the area

Occasional problems may arise in the data set due to inconsistencies in the method and time of observation as well as positioning of equipment. These problems are minimal.

Analysis of environmental data is helpful in operational decision making and in interpretation of research results. Call the Extension Climatology Office if additional environmental information is needed.

* Many thanks to the many Experiment Station and Extension *
* personnel who make this summary possible. To those who made *
* weather observations in the pouring rain or those who *
* entered the data on computer terminals despite their busy *
* schedules, THANK YOU!!!! *

MEAN MONTHLY TEMPERATURE AND DEPARTURE FROM NORMAL (DEGREES F.)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	41.0 +1.1	56.5 +2.6	57.9 -5.7	69.1 0.0	65.6 -1.9	55.7 -1.1	44.3 -1.1
MORRIS DEP.	40.4 -2.3	58.4 +2.3	60.5 -5.4	72.6 +1.9	67.4 -1.4	56.4 -2.1	45.0 -2.0
GRAND RAPIDS DEP.	38.6 -2.2	57.7 +4.1	58.5 -4.0	68.9 +1.7	64.5 -0.3	56.4 +1.2	47.0 +1.7
STAPLES DEP. (1)	38.1 -2.8	56.9 +2.7	58.4 -5.6	69.8 +0.6	69.2 +2.0	55.8 -0.7	45.3 -0.3
BECKER DEP. (2)	40.2 -2.9	59.3 +3.6	61.4 -3.8	72.6 +2.3	69.2 +1.4	58.2 +0.6	48.1 +1.3
LAMBERTON DEP. (3)	41.4 -3.5	60.4 +2.4	63.0 -5.2	72.9 +0.7	69.0 -0.5	60.0 -0.5	49.3 -0.4
WASECA DEP.	40.3 -3.7	59.8 +2.8	62.2 -4.3	72.3 +1.4	68.3 0.0	58.8 -0.5	49.3 +1.0
ROSEMOUNT DEP.	42.6 -0.5	60.8 +4.8	62.1 -3.6	73.4 +2.7	70.0 +1.8	61.3 +2.5	49.9 +1.8
ST. PAUL DEP. (4)	43.4 -2.5	61.3 +3.0	62.4 -5.7	73.9 +0.8	70.5 -0.1	59.3 -1.1	50.5 +1.0

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

TOTAL MONTHLY PRECIPITATION AND DEPARTURE FROM NORMAL (INCHES)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	0.77 -0.62	3.16 +0.96	2.49 -1.12	3.28 +0.11	1.55 -1.49	1.50 -0.83	4.97 +3.58
MORRIS DEP.	1.74 -0.71	2.79 -0.12	1.92 -1.99	4.36 +1.07	3.70 +0.57	4.10 +2.19	4.22 +2.37
GRAND RAPIDS DEP.	2.44 +0.45	4.53 +1.37	4.42 +0.63	2.33 -1.79	5.16 +1.78	2.27 -0.02	2.71 +0.69
STAPLES DEP. (1)	2.42 -0.06	4.63 +1.62	3.65 -0.75	2.56 -1.42	2.44 -1.00	3.44 +0.96	4.04 +2.21
BECKER DEP. (2)	0.78 -1.30	4.59 +0.95	1.86 -2.55	2.67 -1.03	4.57 +0.19	3.30 +0.41	4.12 +2.16
LAMBERTON DEP. (3)	2.41 +0.09	5.66 +2.42	2.20 -1.32	4.88 +1.39	3.94 +0.40	3.81 +1.27	3.98 +2.05
WASECA DEP.	2.78 +0.14	6.45 +2.69	1.78 -2.70	1.46 -2.56	4.61 +0.61	4.27 +0.91	3.72 +1.63
ROSEMOUNT DEP.	2.58 +0.12	5.03 +1.34	1.26 -3.51	2.40 -1.59	3.97 -0.32	3.33 +0.16	4.55 +2.33
ST. PAUL DEP. (4)	1.14 -1.29	4.60 +1.01	1.75 -2.64	2.55 -1.03	3.56 -0.27	2.29 -0.76	3.59 +1.18

- (1) DEPARTURE FROM WADENA NORMALS
- (2) DEPARTURE FROM ST. CLOUD NORMALS
- (3) DEPARTURE FROM SPRINGFIELD NORMALS
- (4) DEPARTURE FROM 1961 - 1980 AVERAGE

TOTAL MONTHLY PAN EVAPORATION AND DEPARTURE FROM AVERAGE (INCHES)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON DEP.	M *	3.39 *	7.58 *	9.40 *	6.56 *	4.26 *	0.99 *
MORRIS DEP.	2.73 +0.95	6.07 -1.87	7.35 -1.95	7.35 -2.33	7.49 -0.29	4.34 -1.33	1.68 +0.06
GRAND RAPIDS DEP.	M *	M *	M *	M *	M *	M *	M *
STAPLES DEP.	3.89 *	6.60 *	7.34 *	7.26 -1.24	6.91 -0.09	3.56 -1.04	1.90 -0.80
BECKER DEP.	M *	5.88 *	6.49 *	8.46 *	6.91 *	4.60 *	2.52 *
LAMBERTON DEP.	1.05 M	5.34 -2.48	6.76 -2.28	5.87 -3.23	5.40 -1.97	3.47 -1.98	1.02 -0.76
WASECA DEP.	0.95 M	6.23 -1.42	8.33 -0.05	8.18 -0.38	7.47 +0.79	4.50 -0.22	0.31 M
ROSEMOUNT DEP. (1)	0.95 M	5.90 -1.30	7.00 -1.44	8.86 +0.56	7.88 +0.54	2.44 M	M M
ST. PAUL DEP.	2.50 +0.72	6.25 -1.05	7.18 -1.32	8.51 -0.78	7.72 +0.35	4.21 -0.45	0.88 -0.41

(1) DEPARTURE FROM FARMINGTON AVERAGE
M MISSING DATA OR MEASUREMENT NOT TAKEN
* AVERAGE NOT AVAILABLE

(USE CAUTION WHEN MAKING AREAL COMPARISONS FOR THE MONTHS OF APRIL AND OCTOBER. THE DATES ON WHICH PAN MEASUREMENT BEGAN AND ENDED MAY DIFFER BETWEEN LOCATIONS.)

MEAN DAILY SOLAR RADIATION (LANGLEYS PER DAY)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON	269	269	320	359	342	209	134
MORRIS	M	M	M	451	412	281	M
GRAND RAPIDS	506	M	M	456	412	273	176
STAPLES	M	417	514	469	446	248	176
BECKER	M	M	M	521	453	305	202
LAMBERTON	400	321	457	448	293	264	185
WASECA	427	375	513	518	476	334	186
ROSEMOUNT	M	M	M	M	M	M	M
ST. PAUL	434	441	565	544	471	323	211

M MISSING DATA OR MEASUREMENT NOT TAKEN

MEAN DAILY WIND RUN (MILES PER DAY)

	APR	MAY	JUN	JUL	AUG	SEP	OCT
CROOKSTON	M	M	114	87	74	99	105
MORRIS	M	M	M	M	M	M	M
GRAND RAPIDS	M	M	M	M	M	M	M
STAPLES	130	100	93	87	74	99	104
BECKER	M	M	M	130	128	165	158
LAMBERTON	M	72	59	34	25	M	M
WASECA	184	153	137	113	77	104	123
ROSEMOUNT	M	M	M	M	M	M	M
ST. PAUL	137	92	69	60	60	88	100

M MISSING DATA OR MEASUREMENT NOT TAKEN

LOCATION : BECKER

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
04/01/82	49.00	25.00	0						0	0	0
04/02/82	51.00	38.00	.02						4.50		.50
04/03/82	34.00	15.00	.16						4.50		.50
04/04/82	30.00	9.00	0						4.50		.50
04/05/82	28.00	20.00	0						4.50		.50
04/06/82	28.00	9.00	0				35.00	33.00	4.50		.50
04/07/82	32.00	16.00	0				38.00	33.00	4.50		.50
04/08/82	35.00	22.00	0				38.00	33.00	4.50		.50
04/09/82	31.00	19.00	0				35.00	33.00	4.50		.50
04/10/82	42.00	31.00	0				39.00	33.00	4.50		.50
04/11/82	41.00	35.00	0				41.00	33.00	4.50		.50
04/12/82	47.00	15.00	.03				47.00	33.00	4.50		.50
04/13/82	46.00	32.00	0				41.00	37.00	4.50		.50
04/14/82	56.00	35.00	0				54.00	37.00	10.00		3.50
04/15/82	64.00	43.00	0				55.00	41.00	23.50	3.50	10.50
04/16/82	69.00	50.00	.15				61.00	47.00	43.00	13.00	20.00
04/17/82	63.00	47.00	.40				56.00	45.00	58.00	18.00	26.50
04/18/82	55.00	42.00	0				53.00	44.00	66.50	18.00	29.00
04/19/82	48.00	33.00	0				49.00	42.00	67.00	18.00	29.00
04/20/82	45.00	27.00	0				48.00	40.00	67.00	18.00	29.00
04/21/82	46.00	28.00	0				52.00	38.00	67.00	18.00	29.00
04/22/82	56.00	27.00	0				55.00	40.00	68.50	18.00	32.00
04/23/82	60.00	43.00	0				58.00	48.00	80.00	19.50	37.00
04/24/82	56.00	39.00	0				58.00	46.00	87.50	19.50	40.00
04/25/82	74.00	42.00	0				67.00	46.00	105.50	27.50	52.00
04/26/82	74.00	39.00	.01				67.00	46.00	122.00	34.00	64.00
04/27/82	58.00	28.00	0				65.00	50.00	125.00	34.00	68.00
04/28/82	63.00	30.00	0				66.00	50.00	131.50	34.00	74.50
04/29/82	62.00	30.00	0				65.00	51.00	137.50	34.00	80.50
04/30/82	66.00	36.00	.01				63.00	50.00	148.50	35.00	88.50
05/01/82	66.00	42.00	.01		.23		65.00	48.00	162.50	39.00	96.50
05/02/82	74.00	46.00	0		.23		70.00	53.00	182.50	49.00	108.50
05/03/82	76.00	42.00	.01		.23		70.00	53.00	201.50	58.00	121.50
05/04/82	79.00	61.00	0		.35		67.00	58.00	231.50	78.00	141.50
05/05/82	84.00	50.00	.52		.47		71.00	57.00	258.50	95.00	158.50
05/06/82	58.00	42.00	.12		.08		58.00	52.00	268.50	95.00	162.50
05/07/82	54.00	33.00	0		.11		57.00	46.00	272.00	95.00	164.50
05/08/82	57.00	34.00	0		.20		57.00	46.00	277.50	95.00	168.00
05/09/82	70.00	49.00	.75		.20		72.00	46.00	297.00	104.50	178.00
05/10/82	70.00	34.00	0		.20		72.00	46.00	309.00	106.50	188.00
05/11/82	81.00	52.00	0		.28		71.00	58.00	335.50	123.00	204.50
05/12/82	64.00	49.00	0		.17		71.00	58.00	352.00	129.50	211.50
05/13/82	61.00	50.00	.55		.02		58.00	57.00	367.50	135.00	217.00
05/14/82	73.00	61.00	.34		.13		72.00	64.00	394.50	152.00	234.00
05/15/82	75.00	55.00	.28		.21		73.00	62.00	419.50	167.00	249.00
05/16/82	76.00	55.00	.28		.21		74.00	61.00	445.00	182.50	264.50
05/17/82	76.00	55.00	.28		.10		74.00	60.00	470.50	198.00	280.00
05/18/82	67.00	57.00	.69		.22		67.00	53.00	492.50	210.00	292.00
05/19/82	65.00	53.00	0		.24		67.00	50.00	511.50	219.00	301.00
05/20/82	72.00	49.00	0		.31		77.00	52.00	532.00	229.50	312.00
05/21/82	63.00	41.00	0		.22		76.00	59.00	544.00	231.50	318.50
05/22/82	67.00	43.00	0		.15		71.00	59.00	559.00	236.50	327.00
05/23/82	73.00	40.00	0		.15		75.00	58.00	575.50	243.00	338.00
05/24/82	72.00	40.00	0		.15		80.00	57.00	591.50	249.00	349.00
05/25/82	64.00	46.00	0		.19		76.00	53.00	606.50	254.00	356.00
05/26/82	70.00	52.00	0		.27		74.00	55.00	627.50	265.00	367.50
05/27/82	69.00	57.00	.37		.01		72.00	64.00	650.50	278.00	380.00
05/28/82	71.00	53.00	.01		.17		70.00	63.00	672.50	290.00	392.00
05/29/82	78.00	59.00	0		.18		74.00	63.00	701.50	308.50	411.00
05/30/82	76.00	43.00	.38		.01		80.00	64.00	720.50	318.00	424.00
05/31/82	78.00	52.00	0		.19		74.00	61.00	745.50	333.00	439.00

LOCATION : BECKER

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40			BASE = 50			BASE = 50/86		
									ACCULM	VALUE		ACCULM	VALUE		ACCULM	VALUE	
06/01/82	62.00	42.00	0			.11	68.00	59.00	757.50	335.00	445.00						
06/02/82	68.00	38.00	0			.26	79.00	59.00	770.50	338.00	454.00						
06/03/82	65.00	38.00	0			.13	79.00	60.00	782.00	339.50	461.50						
06/04/82	69.00	45.00	0			.22	81.00	64.00	799.00	346.50	471.00						
06/05/82	75.00	58.00	0			.17	80.00	64.00	825.50	363.00	487.50						
06/06/82	78.00	57.00	.41			.24	79.00	65.00	853.00	380.50	505.00						
06/07/82	66.00	57.00	0			.15	78.00	63.00	874.50	392.00	516.50						
06/08/82	65.00	44.00	0			.14	70.00	59.00	889.00	396.50	524.00						
06/09/82	73.00	54.00	0			.21	79.00	66.00	912.50	410.00	537.50						
06/10/82	70.00	45.00	0			.14	69.00	58.00	930.00	417.50	547.50						
06/11/82	71.00	41.00	0			.27	80.00	61.00	946.00	423.50	558.00						
06/12/82	71.00	48.00	0	141.00	742.00	.22	84.00	59.00	965.50	433.00	568.50						
06/13/82	83.00	52.00	0	134.00	640.00	.25	87.00	63.00	993.00	450.50	586.00						
06/14/82	71.00	46.00	0	0	249.00	.29	84.00	60.00	1011.50	459.00	596.50						
06/15/82	72.00	52.00	0	172.00	738.00	.28	85.00	61.00	1033.50	471.00	608.50						
06/16/82	82.00	43.00	0	139.00	581.00	.21	85.00	59.00	1056.00	483.50	624.50						
06/17/82	71.00	56.00	0	128.00	458.00	.20	82.00	65.00	1079.50	497.00	638.00						
06/18/82	68.00	47.00	0	87.00	333.00	.13	75.00	62.00	1097.00	504.50	647.00						
06/19/82	62.00	43.00	.24	129.00	405.00	.12	74.00	58.00	1109.50	507.00	653.00						
06/20/82	71.00	54.00	.08	146.00	453.00	.13	77.00	60.00	1132.00	519.50	665.50						
06/21/82	73.00	49.00	0	128.00	656.00	.38	84.00	58.00	1153.00	530.50	677.00						
06/22/82	76.00	46.00	0	81.00	617.00	.25	85.00	60.00	1174.00	541.50	690.00						
06/23/82	86.00	55.00	0	128.00	610.00	.20	90.00	66.00	1204.50	552.00	710.50						
06/24/82	77.00	55.00	.67	168.00	319.00	.30	78.00	67.00	1230.50	562.00	726.50						
06/25/82	74.00	51.00	0	129.00	738.00	.07	89.00	61.00	1253.00	590.50	739.00						
06/26/82	77.00	46.00	0	111.00	658.00	.24	90.00	62.00	1274.50	602.00	752.50						
06/27/82	87.00	55.00	0	90.00	699.00	.24	96.00	67.00	1305.50	623.00	773.00						
06/28/82	90.00	55.00	0	133.00	578.00	.44	97.00	71.00	1338.00	645.50	793.50						
06/29/82	74.00	56.00	.46	158.00	638.00	.25	87.00	67.00	1363.00	660.50	808.50						
06/30/82	77.00	52.00	0	95.00	709.00	.25	91.00	64.00	1387.50	675.00	823.00						
07/01/82	82.00	49.00	0	101.00	718.00	.29	93.00	76.00	1413.00	690.50	839.00						
07/02/82	84.00	60.00	0	135.00	471.00	.23	89.00	72.00	1445.00	712.50	861.00						
07/03/82	90.00	64.00	0	139.00	711.00	.35	97.00	73.00	1482.00	739.50	886.00						
07/04/82	97.00	60.00	0	116.00	704.00	.35	100.00	75.00	1520.50	768.00	909.00						
07/05/82	98.00	70.00	0	299.00	600.00	.55	98.00	81.00	1564.50	802.00	937.00						
07/06/82	86.00	62.00	1.17	171.00	364.00	.30	89.00	72.00	1598.50	826.00	961.00						
07/07/82	74.00	54.00	0	163.00	679.00	.32	88.00	68.00	1622.50	840.00	975.00						
07/08/82	85.00	53.00	0	147.00	529.00	.26	89.00	66.00	1651.50	859.00	994.00						
07/09/82	83.00	59.00	.04	136.00	368.00	.20	85.00	73.00	1682.50	880.00	1015.00						
07/10/82	62.00	56.00	0	144.00	110.00	.06	95.00	67.00	1701.50	889.00	1024.00						
07/11/82	83.00	58.00	0	132.00	684.00	.20	91.00	64.00	1732.00	909.50	1044.50						
07/12/82	86.00	58.00	0	81.00	631.00	.46	97.00	70.00	1764.00	931.50	1066.50						
07/13/82	82.00	59.00	.04	84.00	422.00	.29	89.00	74.00	1794.50	952.00	1087.00						
07/14/82	90.00	61.00	0	100.00	647.00	.18	97.00	71.00	1830.00	977.50	1110.50						
07/15/82	82.00	67.00	0	131.00	279.00	.27	87.00	77.00	1864.50	1002.00	1135.00						
07/16/82	89.00	68.00	0	187.00	351.00	.13	90.00	76.00	1903.00	1030.50	1162.00						
07/17/82	81.00	63.00	0	154.00	653.00	.31	95.00	76.00	1935.00	1052.50	1184.00						
07/18/82	83.00	58.00	0	104.00	681.00	.40	97.00	75.00	1965.50	1073.00	1204.50						
07/19/82	85.00	55.00	0	111.00	584.00	.40	94.00	74.00	1995.50	1093.00	1224.50						
07/20/82	92.00	61.00	0	123.00	600.00	.25	97.00	76.00	2032.00	1119.50	1248.00						
07/21/82	90.00	68.00	.24	32.00	117.00	.25	95.00	79.00	2071.00	1148.50	1275.00						
07/22/82	87.00	63.00	.04	108.00	688.00	.30	98.00	73.00	2106.00	1173.50	1299.50						
07/23/82	88.00	61.00	0	118.00	573.00	.31	97.00	74.00	2140.50	1198.00	1323.00						
07/24/82	86.00	69.00	0	184.00	408.00	.22	93.00	78.00	2178.00	1225.50	1350.50						
07/25/82	84.00	67.00	.08	111.00	380.00	.18	87.00	77.00	2213.50	1251.00	1376.00						
07/26/82	76.00	62.00	.67	89.00	270.00	.07	79.00	72.00	2242.50	1270.00	1395.00						
07/27/82	83.00	57.00	0	97.00	659.00	.27	93.00	68.00	2272.50	1290.00	1415.00						
07/28/82	87.00	57.00	0	75.00	600.00	.29	94.00	71.00	2304.50	1312.00	1436.50						
07/29/82	79.00	60.00	.39	168.00	602.00	.29	87.00	74.00	2334.00	1331.50	1456.00						
07/30/82	82.00	59.00	0	121.00	579.00	.26	90.00	69.00	2364.50	1352.00	1476.50						
07/31/82	86.00	63.00	0	147.00	492.00	.22	89.00	71.00	2399.00	1376.50	1501.00						

LOCATION : BECKER

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
08/01/82	89.00	58.00	0	111.00	536.00	.21	95.00	73.00	2432.50	1400.00	1523.00
08/02/82	97.00	56.00	0	231.00	566.00	.26	95.00	73.00	2469.00	1426.50	1544.00
08/03/82	94.00	73.00	0	123.00	415.00	.30	97.00	80.00	2512.50	1460.00	1573.50
08/04/82	92.00	71.00	0	102.00	526.00	.22	98.00	80.00	2554.00	1491.50	1602.00
08/05/82	92.00	69.00	0	89.00	541.00	.23	99.00	81.00	2594.50	1522.00	1629.50
08/06/82	88.00	64.00	0	90.00	506.00	.21	97.00	79.00	2630.50	1548.00	1654.50
08/07/82	87.00	63.00	0	105.00	450.00	.23	94.00	79.00	2665.50	1573.00	1679.00
08/08/82	76.00	58.00	0	197.00	490.00	.21	86.00	75.00	2692.50	1590.00	1696.00
08/09/82	70.00	50.00	0	178.00	458.00	.09	84.00	70.00	2712.50	1600.00	1706.00
08/10/82	74.00	47.00	0	105.00	563.00	.19	87.00	68.00	2733.00	1610.50	1718.00
08/11/82	77.00	42.00	0	86.00	630.00	.25	88.00	66.00	2752.50	1620.00	1731.50
08/12/82	77.00	47.00	0	182.00	486.00	.24	83.00	68.00	2774.50	1632.00	1745.00
08/13/82	74.00	61.00	0	107.00	162.00	.23	78.00	71.00	2802.00	1649.50	1762.50
08/14/82	82.00	58.00	0	94.00	343.00	.14	84.00	70.00	2832.00	1669.50	1782.50
08/15/82	82.00	63.00	0	76.00	299.00	.14	85.00	73.00	2864.50	1692.00	1805.00
08/16/82	88.00	59.00	.39	79.00	417.00	.32	87.00	72.00	2898.00	1715.50	1827.50
08/17/82	87.00	64.00	.12	81.00	494.00	.26	88.00	71.00	2933.50	1741.00	1852.50
08/18/82	87.00	64.00	0	183.00	500.00	.18	89.00	72.00	2969.00	1766.50	1877.50
08/19/82	88.00	63.00	0	124.00	451.00	.26	91.00	74.00	3004.50	1792.00	1902.00
08/20/82	83.00	56.00	0	125.00	590.00	.24	91.00	70.00	3034.00	1811.50	1921.50
08/21/82	86.00	54.00	.04	170.00	519.00	.31	90.00	70.00	3064.00	1831.50	1941.50
08/22/82	79.00	60.00	0	141.00	443.00	.26	87.00	72.00	3093.50	1851.00	1961.00
08/23/82	79.00	58.00	.04	103.00	477.00	.21	87.00	70.00	3122.00	1869.50	1979.50
08/24/82	76.00	54.00	.20	101.00	387.00	.20	80.00	68.00	3147.00	1884.50	1994.50
08/25/82	83.00	48.00	0	174.00	559.00	.17	84.00	62.00	3172.50	1900.00	2011.00
08/26/82	69.00	49.00	.79	143.00	199.00	.30	74.00	62.00	3191.50	1909.00	2020.50
08/27/82	68.00	42.00	.04	92.00	574.00	.20	76.00	56.00	3206.50	1914.00	2029.50
08/28/82	69.00	50.00	0	152.00	416.00	.19	75.00	61.00	3226.00	1923.50	2039.00
08/29/82	76.00	60.00	1.06	154.00	233.00	.21	75.00	64.00	3254.00	1941.50	2057.00
08/30/82	74.00	49.00	.04	113.00	548.00	.22	79.00	60.00	3275.50	1953.00	2069.00
08/31/82	80.00	58.00	1.85	157.00	281.00	.23	78.00	65.00	3304.50	1972.00	2088.00
09/01/82	71.00	56.00	0	126.00	471.00	.21	81.00	64.00	3332.00	1990.00	2106.00
09/02/82	74.00	49.00	0	176.00	481.00	.20	76.00	63.00	3354.50	2002.00	2118.00
09/03/82	74.00	53.00	0	101.00	517.00	.21	79.00	60.00	3376.00	2013.50	2130.00
09/04/82	81.00	50.00	0	173.00	485.00	.20	82.00	61.00	3401.50	2029.00	2145.50
09/05/82	70.00	50.00	.55	159.00	135.00	.18	72.00	61.00	3421.50	2039.00	2155.50
09/06/82	67.00	44.00	0	127.00	528.00	.11	74.00	56.00	3437.00	2044.50	2164.00
09/07/82	62.00	48.00	0	126.00	95.00	.14	85.00	60.00	3452.00	2049.50	2170.00
09/08/82	69.00	58.00	0	238.00	117.00	.24	68.00	61.00	3475.50	2063.00	2183.50
09/09/82	82.00	65.00	.24	240.00	308.00	.29	79.00	65.00	3509.00	2086.50	2207.00
09/10/82	78.00	64.00	.95	130.00	281.00	.22	78.00	67.00	3540.00	2107.50	2228.00
09/11/82	83.00	63.00	.27	158.00	357.00	.12	81.00	67.00	3573.00	2130.50	2251.00
09/12/82	75.00	53.00	.35	204.00	177.00	.20	74.00	65.00	3597.00	2144.50	2265.00
09/13/82	57.00	53.00	0	177.00	93.00	.22	65.00	60.00	3612.00	2149.50	2270.00
09/14/82	57.00	46.00	.16	203.00	96.00	.01	61.00	55.00	3623.50	2151.00	2273.50
09/15/82	55.00	43.00	.12	140.00	223.00	.01	61.00	53.00	3632.50	2151.00	2276.00
09/16/82	56.00	47.00	.04	165.00	147.00	.06	60.00	54.00	3644.00	2152.50	2279.00
09/17/82	67.00	47.00	.06	140.00	306.00	.05	68.00	55.00	3661.00	2159.50	2287.50
09/18/82	68.00	40.00	.04	124.00	433.00	.16	69.00	50.00	3675.00	2163.50	2296.50
09/19/82	59.00	46.00	0	200.00	336.00	.14	66.00	55.00	3687.50	2166.00	2301.00
09/20/82	57.00	38.00	0	149.00	362.00	.14	64.00	50.00	3695.00	2166.00	2304.50
09/21/82	65.00	34.00	0	66.00	435.00	.13	64.00	47.00	3704.50	2166.00	2312.00
09/22/82	69.00	38.00	0	171.00	425.00	.11	69.00	50.00	3718.00	2169.50	2321.50
09/23/82	72.00	52.00	0	197.00	338.00	.11	71.00	56.00	3740.00	2181.50	2333.50
09/24/82	57.00	46.00	0	199.00	76.00	.10	63.00	56.00	3751.50	2183.00	2337.00
09/25/82	60.00	41.00	0	92.00	424.00	.12	70.00	53.00	3762.00	2183.50	2342.00
09/26/82	68.00	39.00	0	184.00	405.00	.21	68.00	52.00	3775.50	2187.00	2351.00
09/27/82	67.00	44.00	0	178.00	371.00	.20	69.00	54.00	3791.00	2192.50	2359.50
09/28/82	71.00	54.00	.36	289.00	259.00	.16	68.00	59.00	3813.50	2205.00	2372.00
09/29/82	74.00	54.00	.16	203.00	205.00	.23	71.00	62.00	3837.50	2219.00	2386.00
09/30/82	60.00	44.00	0	110.00	263.00	.12	66.00	55.00	3849.50	2221.00	2391.00

LOCATION : BECKER

											DEGREE DAYS		
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE		
10/01/82	53.00	43.00	.08	148.00	91.00	.13	59.00	54.00	3857.50	2221.00	2392.50		
10/02/82	62.00	47.00	.95	148.00	117.00	.02	60.00	54.00	3872.00	2225.50	2398.50		
10/03/82	65.00	44.00	0	97.00	387.00	.08	66.00	49.00	3886.50	2230.00	2406.00		
10/04/82	74.00	45.00	0	139.00	291.00	.11	67.00	51.00	3906.00	2239.50	2418.00		
10/05/82	68.00	45.00	.59	139.00	318.00	.12	67.00	52.00	3922.50	2246.00	2427.00		
10/06/82	71.00	40.00	1.26	194.00	117.00	.10	66.00	52.00	3938.00	2251.50	2437.50		
10/07/82	47.00	38.00	.08	180.00	116.00	.19	54.00	48.00	3940.50	2251.50	2437.50		
10/08/82	59.00	39.00	0	141.00	197.00	.04	58.00	48.00	3949.50	2251.50	2442.00		
10/09/82	54.00	48.00	.24	176.00	195.00	.04	54.00	52.00	3960.50	2252.50	2444.00		
10/10/82	56.00	47.00	0	94.00	151.00	.05	58.00	51.00	3972.00	2254.00	2447.00		
10/11/82	50.00	45.00	.04	160.00	94.00	.03	54.00	50.00	3979.50	2254.00	2447.00		
10/12/82	51.00	45.00	.05	136.00	93.00	.01	54.00	50.00	3987.50	2254.00	2447.50		
10/13/82	48.00	44.00	0	128.00	81.00	.04	52.00	49.00	3993.50	2254.00	2447.50		
10/14/82	68.00	44.00	.04	162.00	321.00	.05	61.00	47.00	4009.50	2260.00	2456.50		
10/15/82	54.00	38.00	.04	189.00	337.00	.06	58.00	47.00	4015.50	2260.00	2458.50		
10/16/82	53.00	30.00	0	86.00	250.00	.08	55.00	41.00	4017.00	2260.00	2460.00		
10/17/82	64.00	42.00	0	167.00	277.00	.15	59.00	46.00	4030.00	2263.00	2467.00		
10/18/82	65.00	42.00	0	154.00	183.00	.10	58.00	47.00	4043.50	2266.50	2474.50		
10/19/82	48.00	33.00	.71	267.00	136.00	.09	53.00	41.00	4044.00	2266.50	2474.50		
10/20/82	38.00	28.00	.04	226.00	183.00	.06	46.00	28.00	4044.00	2266.50	2474.50		
10/21/82	45.00	27.00	0	75.00	292.00	.05	49.00	37.00	4044.00	2266.50	2474.50		
10/22/82	53.00	26.00	0	119.00	294.00	.01	49.00	36.00	4044.00	2266.50	2476.00		
10/23/82	60.00	31.00	0	189.00	285.00	.09	52.00	37.00	4049.50	2266.50	2481.00		
10/24/82	62.00	41.00	0	221.00	271.00	.12	54.00	42.00	4061.00	2268.00	2487.00		
10/25/82	63.00	36.00	0	131.00	242.00	.14	55.00	42.00	4070.50	2268.00	2493.50		
10/26/82	64.00	46.00	0	219.00	225.00	.12	57.00	47.00	4085.50	2273.00	2500.50		
10/27/82	45.00	45.00	0	198.00	85.00	.18	51.00	47.00	4095.00	2273.00	2502.50		
10/28/82	54.00	43.00	0	194.00	114.00	.06	52.00	47.00	4103.50	2273.00	2504.50		
10/29/82	59.00	43.00	0	260.00	217.00	.07	54.00	47.00	4114.50	2274.00	2509.00		
10/30/82	50.00	29.00	0	112.00	219.00	.07	50.00	41.00	4114.50	2274.00	2509.00		
10/31/82	48.00	27.00	0	46.00	77.00	.06	46.00	39.00	4114.50	2274.00	2509.00		

LOCATION : CROOKSTON

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 45 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
04/01/82	38.00	17.00	0		249.82		34.00	33.00	0	0	0
04/02/82	38.00	32.00	.45		51.26		34.00	33.00	0	0	0
04/03/82	32.00	7.00	.06		204.19		33.00	32.00	0	0	0
04/04/82	23.00	6.00	0		241.19		32.00	31.00	0	0	0
04/05/82	24.00	16.00	0		285.59		31.00	31.00	0	0	0
04/06/82	27.00	13.00	0		300.39		31.00	31.00	0	0	0
04/07/82	36.00	23.00	0		265.86		31.00	31.00	0	0	0
04/08/82	36.00	26.00	0		194.32		31.00	31.00	0	0	0
04/09/82	39.00	30.00	0		183.22		32.00	31.00	0	0	0
04/10/82	38.00	23.00	.02		178.29		32.00	32.00	0	0	0
04/11/82	47.00	26.00	0		265.86		40.00	32.00	0	0	0
04/12/82	51.00	37.00	.12		125.26		40.00	35.00	4.00	0	.50
04/13/82	47.00	30.00	0		278.19		42.00	35.00	4.00	0	.50
04/14/82	63.00	37.00	0		329.99		50.00	35.00	14.00	5.00	7.00
04/15/82	66.00	43.00	0		275.72		57.00	45.00	28.50	14.50	15.00
04/16/82	66.00	39.00	.03		223.92		57.00	45.00	41.00	22.00	23.00
04/17/82	52.00	30.00	0		326.29		52.00	37.00	42.00	22.00	24.00
04/18/82	58.00	34.00	0		297.92		54.00	40.00	48.00	23.00	28.00
04/19/82	56.00	31.00	0		268.32		54.00	40.00	51.50	23.00	31.00
04/20/82	54.00	26.00	0		329.99		47.00	37.00	51.50	23.00	33.00
04/21/82	55.00	32.00	0		309.02		52.00	38.00	55.00	23.00	35.50
04/22/82	70.00	32.00	0		333.69		55.00	39.00	66.00	29.00	45.50
04/23/82	81.00	40.00	0		373.16		67.00	45.00	86.50	44.50	61.00
04/24/82	82.00	45.00	0		406.46		67.00	51.00	110.00	63.00	77.00
04/25/82	82.00	37.00	0		231.32		67.00	49.00	129.50	77.50	93.00
04/26/82	56.00	27.00	0		342.32		60.00	39.00	131.00	77.50	96.00
04/27/82	61.00	33.00	0		331.22		61.00	46.00	138.00	79.50	101.50
04/28/82	64.00	42.00	0		327.52		61.00	48.00	151.00	87.50	108.50
04/29/82	64.00	37.00	0		246.12		61.00	48.00	161.50	93.00	115.50
04/30/82	67.00	39.00	.09		304.09		60.00	47.00	174.50	101.00	124.00
05/01/82	67.00	39.00	0		311.49		65.00	49.00	187.50	109.00	132.50
05/02/82	76.00	39.00	0		306.56		67.00	50.00	205.00	121.50	145.50
05/03/82	79.00	56.00	0		352.19		68.00	54.00	232.50	144.00	163.00
05/04/82	82.00	58.00	1.00		306.56		69.00	56.00	262.50	169.00	183.00
05/05/82	70.00	44.00	.08		132.66		60.00	50.00	279.50	181.00	193.00
05/06/82	62.00	39.00	0		390.42		57.00	42.00	290.00	186.50	199.00
05/07/82	64.00	31.00	0		326.29		55.00	41.00	297.50	189.00	206.00
05/08/82	66.00	30.00	.01		265.86		54.00	40.00	300.50	189.00	209.00
05/09/82	68.00	38.00	0		318.89		61.00	39.00	308.50	192.00	213.00
05/10/82	67.00	45.00	.50		111.69		50.00	46.00	319.50	198.00	216.50
05/11/82	77.00	43.00	.22	167.00	128.96	.02	54.00	47.00	329.50	203.00	220.00
05/12/82	83.00	45.00	0	83.00	135.12	.07	52.00	47.00	338.50	207.00	221.50
05/13/82	86.00	48.00	.03	145.00	151.16	.08	52.00	48.00	350.00	214.00	224.50
05/14/82	88.00	49.00	0	87.00	222.69	.06	54.00	50.00	364.00	222.00	228.50
05/15/82	89.00	55.00	.22	192.00	95.66	.04	54.00	53.00	381.00	234.00	235.50
05/16/82	74.00	55.00	.71	143.00	239.96	.28	61.00	54.00	406.00	254.00	250.00
05/17/82	68.00	55.00	.23	176.00	168.42	.16	62.00	56.00	427.50	271.00	262.00
05/18/82	62.00	53.00	0	119.00	147.46	.04	57.00	56.00	445.00	283.00	269.50
05/19/82	58.00	51.00	.02	151.00	101.82	.05	56.00	56.00	459.50	293.00	274.00
05/20/82	58.00	42.00	0	172.00	168.42	.13	57.00	51.00	469.50	298.00	278.00
05/21/82	63.00	41.00	0	132.00	354.66	.24	64.00	48.00	481.00	305.00	284.50
05/22/82	64.00	41.00	0	87.00	323.82	.23	64.00	49.00	494.00	312.00	289.00
05/23/82	73.00	44.00	0	86.00	380.56	.30	72.00	49.00	512.00	326.00	303.00
05/24/82	75.00	53.00	0	105.00	396.59	.32	76.00	54.00	536.50	345.00	317.00
05/25/82	72.00	58.00	0	70.00	291.76	.19	75.00	57.00	556.10	365.00	332.00
05/26/82	72.00	50.00	0	46.00	273.26	.19	75.00	61.00	582.50	381.00	343.00
05/27/82	78.00	52.00	0	51.00	344.79	.22	79.00	60.00	607.00	401.00	358.00
05/28/82	80.00	53.00	0	26.00	457.02	.20	81.00	61.00	634.00	422.00	374.50
05/29/82	79.00	49.00	.08	80.00	374.39	.25	81.00	63.00	658.00	441.00	389.00
05/30/82	72.00	46.00	0	53.00	630.92	.31	81.00	63.00	677.00	455.00	400.00
05/31/82	57.00	45.00	.06	50.00	142.52	.01	63.00	54.00	687.00	460.50	403.50

LOCATION : CROOKSTON

	DEGREE DAYS										
	BASE = 40	BASE = 45	BASE = 50/86								
	ACCUMUL VALUE	ACCUMUL VALUE	ACCUMUL VALUE	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN
06/01/82	694.00	462.50	405.50	54.00	40.00	0	117.00	288.06	.15	57.00	51.00
06/02/82	699.00	462.50	407.50	54.00	36.00	0	101.00	444.69	.21	65.00	50.00
06/03/82	712.50	471.00	414.50	64.00	43.00	0	28.00	366.99	.20	74.00	49.00
06/04/82	730.00	483.50	425.00	71.00	44.00	0	85.00	370.69	.32	74.00	56.00
06/05/82	756.00	504.50	441.00	76.00	56.00	0	184.00	322.59	.39	72.00	57.00
06/06/82	784.50	528.00	459.50	74.00	63.00	.04	239.00	265.86	.37	61.00	59.00
06/07/82	803.50	542.00	468.50	66.00	52.00	.52	179.00	82.09	0	60.00	58.00
06/08/82	812.00	545.50	472.00	57.00	40.00	0	104.00	101.82	.10	58.00	52.00
06/09/82	823.00	551.50	474.50	55.00	47.00	.71	136.00	158.56	.12	53.00	52.00
06/10/82	833.00	556.50	478.00	57.00	43.00	.13	174.00	120.32	.02	52.00	50.00
06/11/82	853.00	571.50	488.00	69.00	51.00	.01	84.00	566.79	.28	60.00	50.00
06/12/82	868.50	582.00	498.00	70.00	41.00	0	117.00	392.89	.31	63.00	54.00
06/13/82	890.00	598.50	509.50	73.00	50.00	0	88.00	391.66	.36	61.00	53.00
06/14/82	917.50	621.00	527.00	81.00	54.00	.03	53.00	400.29	.32	67.00	57.00
06/15/82	937.50	636.00	540.00	76.00	44.00	0	149.00	412.62	.41	67.00	60.00
06/16/82	955.00	648.50	550.00	70.00	45.00	0	106.00	526.09	.30	65.00	59.00
06/17/82	979.50	668.00	564.50	77.00	52.00	0	93.00	243.66	.29	65.00	59.00
06/18/82	996.00	679.50	572.50	66.00	47.00	0	117.00	358.36	.33	63.00	60.00
06/19/82	1009.50	688.00	580.00	65.00	42.00	0	78.00	281.89	.26	59.00	55.00
06/20/82	1026.50	700.00	589.00	68.00	46.00	.11	191.00	226.39	.01	58.00	56.00
06/21/82	1043.00	711.50	598.00	68.00	45.00	0	113.00	316.42	.47	61.00	56.00
06/22/82	1058.50	722.00	608.00	70.00	41.00	0	79.00	389.19	.30	71.00	62.00
06/23/82	1080.00	738.50	619.50	72.00	51.00	.05	76.00	292.99	.11	63.00	56.00
06/24/82	1110.50	764.00	640.00	84.00	57.00	.02	141.00	295.46	.32	65.00	60.00
06/25/82	1123.00	771.50	647.50	65.00	40.00	0	159.00	309.02	.29	63.00	58.00
06/26/82	1142.00	785.50	658.00	71.00	47.00	0	57.00	423.72	.27	67.00	58.00
06/27/82	1169.50	808.00	675.50	77.00	58.00	.17	111.00	368.22	.32	68.00	59.00
06/28/82	1195.50	829.00	691.50	79.00	53.00	.10	85.00	384.26	.32	71.00	64.00
06/29/82	1208.50	837.00	697.50	62.00	44.00	.60	102.00	131.42	.14	71.00	57.00
06/30/82	1225.50	849.00	707.00	69.00	45.00	0	69.00	381.79	.29	60.00	54.00
07/01/82	1246.50	865.00	718.50	73.00	49.00	0	60.00	401.52	.31	71.00	56.00
07/02/82	1276.50	890.00	738.50	79.00	61.00	0	145.00	433.59	.58	62.00	61.00
07/03/82	1307.00	915.50	759.00	79.00	62.00	0	149.00	342.32	.31	70.00	67.00
07/04/82	1341.00	944.50	782.00	88.00	60.00	0	59.00	682.72	.33	77.00	66.00
07/05/82	1375.50	974.00	806.50	84.00	65.00	.55	249.00	198.02	.25	69.00	68.00
07/06/82	1408.00	1001.50	829.00	86.00	59.00	0	93.00	458.26	.30	70.00	67.00
07/07/82	1434.00	1022.50	845.00	77.00	55.00	0	91.00	297.92	.31	70.00	67.00
07/08/82	1458.00	1041.50	859.00	72.00	56.00	0	114.00	358.36	.37	70.00	65.00
07/09/82	1487.50	1066.00	878.50	80.00	59.00	.32	84.00	329.99	.35	75.00	65.00
07/10/82	1512.50	1086.00	893.50	71.00	59.00	.18	113.00	157.32	.23	67.00	65.00
07/11/82	1536.00	1104.50	907.00	75.00	52.00	0	46.00	445.92	.29	70.00	63.00
07/12/82	1564.00	1127.50	925.00	81.00	55.00	0	28.00	380.56	.24	76.00	62.00
07/13/82	1598.50	1157.00	949.00	87.00	62.00	0	29.00	406.46	.32	74.00	67.00
07/14/82	1626.00	1179.50	966.50	77.00	58.00	0	100.00	238.72	.25	74.00	69.00
07/15/82	1660.50	1209.00	991.00	85.00	64.00	0	94.00	342.32	.41	80.00	68.00
07/16/82	1693.00	1236.50	1013.50	84.00	61.00	0	74.00	228.86	.20	77.00	71.00
07/17/82	1722.50	1261.00	1033.00	83.00	56.00	.06	144.00	210.36	.22	77.00	70.00
07/18/82	1747.00	1280.50	1047.50	77.00	52.00	0	117.00	399.06	.34	77.00	68.00
07/19/82	1773.50	1302.00	1064.00	80.00	55.00	.38	51.00	381.79	.28	81.00	65.00
07/20/82	1800.00	1323.50	1080.50	75.00	58.00	.07	88.00	278.19	.16	73.00	67.00
07/21/82	1835.50	1354.00	1104.00	90.00	61.00	1.22	90.00	564.32	.77	84.00	67.00
07/22/82	1861.50	1375.00	1120.00	79.00	53.00	0	68.00	469.36	.31	79.00	67.00
07/23/82	1891.00	1399.50	1139.50	80.00	59.00	0	109.00	511.29	.24	77.00	65.00
07/24/82	1928.50	1432.00	1166.50	87.00	68.00	.14	169.00	296.69	.27	81.00	69.00
07/25/82	1958.00	1456.50	1186.00	82.00	57.00	0	56.00	497.72	.29	83.00	71.00
07/26/82	1987.00	1480.50	1205.00	80.00	58.00	0	27.00	264.62	.15	80.00	68.00
07/27/82	2015.50	1504.00	1223.50	80.00	54.00	.00	26.00	364.52	.24	84.00	67.00
07/28/82	2042.50	1526.00	1240.50	83.00	57.00	.05	22.00	201.72	.25	81.00	70.00
07/29/82	2072.50	1551.00	1260.50	80.00	54.00	.35	62.00	396.59	.32	83.00	69.00
07/30/82	2097.00	1570.50	1275.00	75.00	54.00	.01	86.00	300.39	.20	72.00	65.00
07/31/82	2127.00	1595.50	1295.00	82.00	58.00	0	53.00	299.16	.30	82.00	63.00

LOCATION : CROOKSTON

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUM VALUE	BASE = 45 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
08/01/82	83.00	59.00	0	22.00	320.12	.17	77.00	69.00	2158.00	1621.50	1316.00
08/02/82	84.00	62.00	0	113.00	519.92	.26	84.00	69.00	2191.00	1649.50	1339.00
08/03/82	89.00	63.00	0	132.00	480.46	.30	83.00	72.00	2227.00	1680.50	1363.50
08/04/82	81.00	57.00	0	30.00	560.62	.23	86.00	72.00	2256.00	1704.50	1382.50
08/05/82	87.00	58.00	0	51.00	511.29	.15	86.00	70.00	2288.50	1732.00	1404.50
08/06/82	82.00	65.00	.78	83.00	376.86	.43	86.00	71.00	2322.00	1760.50	1428.00
08/07/82	84.00	60.00	0	24.00	395.36	.18	82.00	73.00	2354.00	1787.50	1450.00
08/08/82	84.00	57.00	0	130.00	322.59	.38	82.00	69.00	2384.50	1813.00	1470.50
08/09/82	71.00	46.00	.03	147.00	274.49	.20	74.00	63.00	2403.00	1826.50	1481.00
08/10/82	67.00	43.00	0	68.00	263.39	.21	71.00	63.00	2418.00	1836.50	1489.50
08/11/82	71.00	43.00	0	26.00	365.76	.15	78.00	64.00	2435.00	1848.50	1500.00
08/12/82	76.00	53.00	0	161.00	326.29	.35	78.00	62.00	2459.50	1868.00	1514.50
08/13/82	73.00	61.00	.07	157.00	193.09	.15	68.00	65.00	2486.50	1890.00	1531.50
08/14/82	86.00	63.00	0	57.00	309.02	.22	84.00	67.00	2521.00	1919.50	1556.00
08/15/82	79.00	65.00	0	152.00	201.72	.16	74.00	70.00	2553.00	1946.50	1578.00
08/16/82	86.00	59.00	0	29.00	349.72	.17	81.00	70.00	2585.50	1974.00	1600.50
08/17/82	79.00	58.00	.33	31.00	426.79	.20	78.00	68.00	2614.00	1997.50	1619.00
08/18/82	85.00	63.00	0	63.00	449.62	.19	85.00	67.00	2648.00	2026.50	1643.00
08/19/82	91.00	63.00	.03	51.00	534.72	.26	80.00	73.00	2685.00	2058.50	1667.50
08/20/82	83.00	51.00	0	48.00	442.22	.29	82.00	73.00	2712.00	2080.50	1684.50
08/21/82	83.00	57.00	0	41.00	458.26	.24	84.00	67.00	2742.00	2105.50	1704.50
08/22/82	87.00	57.00	.14	96.00	306.56	.18	78.00	68.00	2774.00	2132.50	1726.00
08/23/82	78.00	53.00	.17	44.00	243.66	.19	79.00	66.00	2799.50	2153.00	1741.50
08/24/82	73.00	50.00	0	14.00	257.22	.15	76.00	64.00	2821.00	2169.50	1753.00
08/25/82	71.00	47.00	0	75.00	268.32	.19	73.00	63.00	2840.00	2183.50	1763.50
08/26/82	67.00	40.00	0	68.00	315.19	.21	71.00	60.00	2853.50	2192.00	1772.00
08/27/82	64.00	35.00	0	33.00	207.89	.15	66.00	56.00	2863.00	2196.50	1779.00
08/28/82	63.00	37.00	0	35.00	247.36	.15	69.00	53.00	2873.00	2201.50	1785.50
08/29/82	70.00	51.00	0	179.00	263.39	.26	69.00	60.00	2893.50	2217.00	1796.00
08/30/82	72.00	38.00	0	51.00	254.76	.17	70.00	58.00	2908.50	2227.00	1807.00
08/31/82	58.00	48.00	0	81.00	174.59	.02	68.00	58.00	2921.50	2235.00	1811.00
09/01/82	77.00	48.00	.01	37.00	95.66	.11	70.00	58.00	2944.00	2252.50	1824.50
09/02/82	80.00	48.00	0	79.00	221.46	.21	70.00	59.00	2968.00	2271.50	1839.50
09/03/82	72.00	38.00	0	72.00	238.72	.22	68.00	58.00	2983.00	2281.50	1850.50
09/04/82	78.00	45.00	0	76.00	291.76	.16	73.00	56.00	3004.50	2298.00	1864.50
09/05/82	89.00	48.00	0	104.00	301.62	.30	77.00	61.00	3033.00	2321.50	1882.50
09/06/82	68.00	40.00	0	60.00	274.49	.21	71.00	60.00	3047.00	2330.50	1891.50
09/07/82	69.00	45.00	0	136.00	262.16	.20	70.00	57.00	3064.00	2342.50	1901.00
09/08/82	73.00	54.00	0	209.00	200.49	.13	66.00	60.00	3087.50	2361.00	1914.50
09/09/82	86.00	62.00	0	201.00	209.12	.27	75.00	65.00	3121.50	2390.00	1938.50
09/10/82	83.00	59.00	0	170.00	244.89	.19	74.00	68.00	3152.50	2416.00	1959.50
09/11/82	87.00	64.00	0	181.00	246.12	.31	78.00	68.00	3188.00	2446.50	1984.50
09/12/82	70.00	54.00	0	50.00	262.16	.09	70.00	65.00	3210.00	2463.50	1996.50
09/13/82	59.00	37.00	.40	34.00	79.62	.04	64.00	55.00	3217.50	2466.00	2000.50
09/14/82	59.00	41.00	0	46.00	88.26	.04	58.00	54.00	3227.50	2471.00	2005.00
09/15/82	57.00	44.00	0	86.00	115.39	.08	53.00	53.00	3235.50	2474.00	2006.00
09/16/82	57.00	39.00	0	53.00	105.52	.08	58.00	51.00	3243.50	2477.50	2009.50
09/17/82	65.00	43.00	.33	60.00	142.52	.01	51.00	49.00	3252.50	2481.00	2012.00
09/18/82	59.00	39.00	.08	56.00	332.46	.08	58.00	49.00	3262.00	2485.50	2017.00
09/19/82	75.00	42.00	0	69.00	235.02	.15	60.00	49.00	3280.50	2499.00	2029.50
09/20/82	55.00	31.00	0	104.00	80.86	.09	54.00	47.00	3282.50	2499.00	2031.00
09/21/82	55.00	31.00	0	34.00	233.79	.13	55.00	45.00	3287.00	2499.00	2035.00
09/22/82	67.00	38.00	0	112.00	300.39	.19	60.00	46.00	3299.50	2506.50	2043.50
09/23/82	57.00	49.00	.01	176.00	412.62	.24	61.00	50.00	3321.50	2523.50	2056.00
09/24/82	52.00	38.00	0	136.00	226.39	.07	57.00	51.00	3331.50	2528.50	2062.00
09/25/82	59.00	28.00	0	60.00	164.72	.13	57.00	48.00	3335.00	2528.50	2066.50
09/26/82	60.00	26.00	0	184.00	251.06	.15	53.00	45.00	3343.00	2531.50	2071.50
09/27/82	59.00	44.00	0	45.00	216.52	.18	60.00	54.00	3359.50	2543.00	2081.00
09/28/82	59.00	44.00	.61	165.00	235.02	.05	54.00	54.00	3371.50	2550.00	2083.50
09/29/82	56.00	45.00	.06	148.00	70.99	.05	56.00	53.00	3388.00	2561.50	2092.50
09/30/82	55.00	37.00	0	42.00	143.76	.10	55.00	48.00	3394.00	2562.50	2095.00

LOCATION : CROOKSTON

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCULM VALUE	BASE = 45 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
10/01/82	52.00	34.00	0	55.00	232.56	.10	53.00	47.00	3397.00	2562.50	2096.00
10/02/82	46.00	36.00	.42	40.00	152.39	0	47.00	46.00	3398.00	2562.50	2096.00
10/03/82	52.00	39.00	0	28.00	72.22	.02	51.00	47.00	3403.50	2563.00	2097.00
10/04/82	63.00	52.00	0	163.00	177.06	.14	52.00	48.00	3421.00	2575.50	2104.50
10/05/82	56.00	39.00	0	125.00	206.66	.13	56.00	50.00	3428.50	2578.00	2107.50
10/06/82	45.00	40.00	.68	129.00	161.02	.09	50.00	48.00	3431.00	2578.00	2107.50
10/07/82	44.00	41.00	1.21	128.00	80.86	.03	48.00	46.00	3433.50	2578.00	2107.50
10/08/82	48.00	41.00	0	36.00	58.66	0	48.00	46.00	3438.00	2578.00	2107.50
10/09/82	54.00	43.00	.73	141.00	120.32	.06	49.00	47.00	3446.50	2581.50	2109.50
10/10/82	47.00	44.00	1.15	111.00	83.32	.01	48.00	48.00	3452.00	2582.00	2109.50
10/11/82	47.00	43.00	.34	126.00	58.66	0	48.00	48.00	3457.00	2582.00	2109.50
10/12/82	47.00	41.00	.18	101.00	72.22	.01	48.00	47.00	3461.00	2582.00	2109.50
10/13/82	43.00	38.00	.03	74.00	72.22	0	47.00	45.00	3461.50	2582.00	2109.50
10/14/82	53.00	38.00	0	32.00	75.92	.05	50.00	45.00	3467.00	2582.50	2111.00
10/15/82	66.00	41.00	.04	64.00	194.32	.08	55.00	45.00	3480.50	2591.00	2119.00
10/16/82	52.00	33.00	0	75.00	246.12	.08	48.00	45.00	3483.00	2591.00	2120.00
10/17/82	46.00	35.00	.12	135.00	163.49	.04	50.00	45.00	3483.50	2591.00	2120.00
10/18/82	63.00	41.00	.04	131.00	196.79	.09	52.00	43.00	3495.50	2598.00	2126.50
10/19/82	43.00	33.00	0	118.00	57.42	.06	48.00	44.00	3495.50	2598.00	2126.50
10/20/82	36.00	28.00	0	125.00	72.22	0	44.00	40.00	3495.50	2598.00	2126.50
10/21/82	36.00	23.00	0	39.00	104.29	0	40.00	37.00	3495.50	2598.00	2126.50
10/22/82	45.00	25.00	0	141.00	148.69	0	41.00	35.00	3495.50	2598.00	2126.50
10/23/82	53.00	33.00	0	136.00	210.36	0	44.00	37.00	3498.50	2598.00	2128.00
10/24/82	58.00	39.00	0	196.00	165.96	0	47.00	40.00	3507.00	2601.50	2132.00
10/25/82	63.00	35.00	0	24.00	199.26	0	51.00	44.00	3516.00	2605.50	2138.50
10/26/82	63.00	36.00	0	74.00	216.52	0	50.00	43.00	3525.50	2610.00	2145.00
10/27/82	65.00	49.00	0	237.00	135.12	0	51.00	47.00	3542.50	2622.00	2152.50
10/28/82	56.00	44.00	0	172.00	90.72	0	47.00	47.00	3552.50	2627.00	2155.50
10/29/82	50.00	35.00	.03	124.00	121.56	0	47.00	45.00	3555.00	2627.00	2155.50
10/30/82	50.00	27.00	0	105.00	85.79	0	45.00	40.00	3555.00	2627.00	2155.50
10/31/82	50.00	27.00	0	65.00	144.99	0	40.00	38.00	3555.00	2627.00	2155.50

LOCATION: GRAND RAPIDS

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUMUL VALUE	BASE = 50 ACCUMUL VALUE	BASE = 50/86 ACCUMUL VALUE
04/01/82	38.00	13.00			521.38						
04/02/82	39.00	29.00			99.51						
04/03/82	35.00	8.00	1.65		288.92						
04/04/82	39.00				558.28						
04/05/82	37.00	8.00			585.34						
04/06/82	37.00	-1.00			617.32						
04/07/82	40.00	1.00			640.69						
04/08/82	42.00	10.00			563.20						
04/09/82	42.00	16.00			429.13						
04/10/82	42.00	25.00	0.50		217.58						
04/11/82	44.00	12.00			593.95						
04/12/82	44.00	34.00	.17		148.70						
04/13/82	55.00	39.00			543.52			1.00			
04/14/82	55.00	40.00			486.94			6.00			5.00
04/15/82	56.00	41.00	.40		533.68			18.00		2.00	11.50
04/16/82	56.00	40.00	.40		175.76			29.00	3.00		17.50
04/17/82	56.00	32.00			640.69			29.00	3.00		17.50
04/18/82	48.00	00.00	.12		223.73			29.00	3.00		17.50
04/19/82	44.00	4.00			506.62			29.00	3.00		17.50
04/20/82	44.00	24.00			655.44			29.00	3.00		17.50
04/21/82	44.00	23.00			563.20			29.00	3.00		20.50
04/22/82	47.00	26.00			633.31			33.00	3.00		26.50
04/23/82	44.00	24.00			654.21			53.00		13.50	40.00
04/24/82	73.00	51.00			628.39			78.50	28.50		55.00
04/25/82	77.00	47.00			579.19			100.50	40.50		68.50
04/26/82	58.00	33.00			661.59			105.00	40.50		72.50
04/27/82	66.00	37.00			684.96			110.00	40.50		79.00
04/28/82	66.00	30.00			619.78			118.00	40.50		87.00
04/29/82	66.00	30.00			670.20			126.50	40.50		95.50
04/30/82	67.00	33.00			483.25			141.50	45.50		104.00
05/01/82	74.00	33.00			581.65			155.00	49.00		116.00
05/02/82	79.00	44.00			561.97			176.50	60.50		130.50
05/03/82	80.00	55.00			416.83			198.00	72.00		144.50
05/04/82	80.00	51.00	.6		307.37			223.50	87.50		160.00
05/05/82	80.00	51.00	.22		271.70			237.00	91.00		165.50
05/06/82	82.00	37.00						246.50	91.00		171.50
05/07/82	82.00	33.00						253.50	91.00		177.50
05/08/82	82.00	42.00						263.50	91.00		185.00
05/09/82	82.00	42.00						276.50	94.00		192.00
05/10/82	82.00	42.00	.87					293.00	100.50		202.50
05/11/82	82.00	45.00	.12					310.50	108.00		212.50
05/12/82	82.00	46.00						321.00	108.50		215.50
05/13/82	82.00	44.00	.4					332.50	110.00		219.50
05/14/82	82.00	55.00	.71					358.50	126.00		235.50
05/15/82	82.00	57.00	.01					386.00	143.50		253.00
05/16/82	82.00	53.00	.23					410.00	157.50		267.00
05/17/82	82.00	48.00	.23					426.50	164.00		274.50
05/18/82	82.00	54.00	.79					443.00	170.50		281.00
05/19/82	82.00	53.00	.02					460.50	178.00		288.50
05/20/82	82.00	49.00						472.50	180.00		296.00
05/21/82	82.00	49.00						484.50	182.00		305.50
05/22/82	82.00	45.00						500.00	187.50		317.50
05/23/82	82.00	40.00						514.00	191.50		329.00
05/24/82	82.00	45.00						532.00	199.50		342.00
05/25/82	82.00	46.00						552.50	210.00		354.50
05/26/82	82.00	50.00						576.50	224.00		368.50
05/27/82	80.00	49.00						601.00	238.50		383.50
05/28/82	80.00	46.00	.29					624.00	251.50		398.50
05/29/82	80.00	57.00	.10					651.50	269.00		416.00
05/30/82	82.00	42.00	.09					671.50	279.00		430.00
05/31/82	72.00	47.00	.07					691.00	288.50		441.00

LOCATION : GRAND RAPIDS

		DEGREE DAYS									
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
06/01/82	55.00	42.00	0						699.50	288.50	443.50
06/02/82	63.00	36.00	0						709.00	288.50	450.00
06/03/82	69.00	35.00	0						721.00	290.50	459.00
06/04/82	75.00	41.00	0						739.00	298.50	472.50
06/05/82	75.00	45.00	0						759.00	308.50	484.50
06/06/82	72.00	52.00	.16						781.00	320.50	496.50
06/07/82	68.00	54.00	.05						802.00	331.50	507.50
06/08/82	66.00	48.00	0						819.00	338.50	515.50
06/09/82	66.00	52.00	.66						838.00	347.50	524.50
06/10/82	67.00	45.00	.07						854.00	353.50	533.50
06/11/82	71.00	40.00	.01						869.00	359.50	543.50
06/12/82	71.00	40.00	0						885.00	364.50	554.00
06/13/82	74.00	54.00	0						909.00	373.50	566.50
06/14/82	80.00	52.00	.06						935.00	394.50	588.50
06/15/82	73.00	48.00	.46		741.54				955.00	405.50	599.50
06/16/82	70.00	38.00	0		443.89				969.00	409.00	605.50
06/17/82	71.00	51.00	0		570.58				990.00	420.00	616.50
06/18/82	65.00	45.00	.02		377.48				1005.00	425.00	624.00
06/19/82	64.00	45.00	.22		290.15				1020.00	429.00	633.00
06/20/82	68.00	49.00	.08		500.47				1038.00	438.00	644.00
06/21/82	69.00	43.00	.01		596.41				1054.00	444.00	650.50
06/22/82	71.00	41.00	0		536.14				1070.00	450.00	660.00
06/23/82	75.00	47.00	0		479.56				1091.00	461.00	670.00
06/24/82	76.00	59.00	0		220.04				1119.00	478.00	690.00
06/25/82	72.00	46.00	0		676.35				1138.00	487.00	701.00
06/26/82	76.00	46.00	0		757.53				1159.00	498.00	714.00
06/27/82	82.00	53.00	0		710.79				1186.00	516.00	731.00
06/28/82	81.00	46.00	.13		426.67				1210.00	529.00	747.00
06/29/82	71.00	47.00	.40		651.75				1229.00	538.00	757.00
06/30/82	74.00	40.00	0		357.80				1246.00	545.00	769.00
07/01/82	79.00	45.00	0		672.66				1268.00	557.00	784.00
07/02/82	82.00	54.00	0		484.48				1296.00	575.00	802.00
07/03/82	85.00	62.00	.36		584.11				1329.00	599.00	825.00
07/04/82	85.00	54.00	0		475.87				1359.00	618.00	845.00
07/05/82	93.00	62.00	.40		532.45				1396.00	646.00	869.00
07/06/82	92.00	62.00	.33		429.13				1433.00	673.00	893.00
07/07/82	80.00	58.00	.28		409.45				1462.00	692.00	912.00
07/08/82	82.00	49.00	0		506.62				1488.00	707.00	928.00
07/09/82	81.00	56.00	.77		94.59				1516.00	726.00	946.00
07/10/82	63.00	54.00	.01		129.02				1535.00	734.00	955.00
07/11/82	80.00	54.00	.22		452.50				1562.00	751.00	972.00
07/12/82	84.00	51.00	.07		602.56				1589.00	769.00	989.00
07/13/82	84.00	55.00	0		388.54				1619.00	788.00	1009.00
07/14/82	84.00	54.00	.04		571.81				1648.00	807.00	1028.00
07/15/82	85.00	58.00	0		298.76				1679.00	829.00	1049.00
07/16/82	77.00	61.00	.57		213.89				1708.00	848.00	1068.00
07/17/82	77.00	69.00	.07		649.29				1741.00	871.00	1091.00
07/18/82	77.00	56.00	0		623.47				1768.00	887.00	1108.00
07/19/82	73.00	48.00	.23		176.99				1788.00	898.00	1119.00
07/20/82	89.00	52.00	0		596.41				1819.00	918.00	1138.00
07/21/82	89.00	60.00	0		545.98				1853.00	943.00	1161.00
07/22/82	83.00	55.00	0		612.40				1882.00	962.00	1180.00
07/23/82	85.00	54.00	0		612.40				1912.00	981.00	1200.00
07/24/82	85.00	61.00	1.20		180.68				1945.00	1004.00	1223.00
07/25/82	81.00	55.00	0		339.35				1973.00	1022.00	1241.00
07/26/82	81.00	60.00	0		532.45				2003.00	1043.00	1261.00
07/27/82	81.00	53.00	0		573.04				2030.00	1060.00	1278.00
07/28/82	82.00	52.00	.25		577.96				2057.00	1077.00	1295.00
07/29/82	83.00	55.00	.36		389.77				2086.00	1096.00	1314.00
07/30/82	79.00	56.00	0		307.37				2114.00	1113.00	1332.00
07/31/82	78.00	57.00	0		565.66				2141.00	1131.00	1349.00

LOCATION : GRAND RAPIDS

		DEGREE DAYS										
		MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
08/01/82		77.00	58.00	0.00		488.17				2169.00	1148.50	1367.50
08/02/82		77.00	47.00	0.00		137.63				2191.00	1160.50	1380.50
08/03/82		83.00	65.00	0.00		431.59				2224.00	1183.50	1403.50
08/04/82		88.00	58.00	0.00		458.65				2256.00	1205.50	1425.50
08/05/82		88.00	50.00	0.00		575.50				2291.00	1230.50	1449.50
08/06/82		88.00	50.00	1.12		349.19				2321.00	1250.50	1469.50
08/07/82		88.00	50.00	1.39		345.50				2354.00	1273.50	1492.50
08/08/82		88.00	50.00	0.00		392.23				2383.50	1293.50	1511.50
08/09/82		88.00	44.00	0.00		379.94				2401.00	1300.50	1520.50
08/10/82		68.00	44.00	0.00		600.10				2416.00	1305.50	1529.50
08/11/82		74.00	33.00	0.00		574.27				2432.00	1311.50	1541.00
08/12/82		76.00	43.00	0.00		555.82				2451.50	1321.50	1554.00
08/13/82		77.00	55.00	0.07		432.82				2477.50	1337.50	1570.00
08/14/82		80.00	55.00	0.00		446.35				2506.00	1355.50	1588.50
08/15/82		80.00	57.00	0.00		275.39				2536.50	1376.50	1609.50
08/16/82		83.00	50.00	0.00		426.67				2569.00	1398.50	1631.50
08/17/82		83.00	50.00	0.00		538.60				2598.50	1418.50	1651.00
08/18/82		85.00	50.00	0.00		315.98				2630.50	1440.50	1673.50
08/19/82		85.00	50.00	1.50		452.50				2663.50	1462.50	1695.50
08/20/82		78.00	50.00	0.00		437.74				2687.00	1476.50	1709.50
08/21/82		79.00	50.00	0.00		176.99				2711.00	1490.50	1724.50
08/22/82		77.00	50.00	1.11		547.21				2739.00	1508.50	1742.00
08/23/82		74.00	39.00	1.16		478.33				2762.00	1521.50	1755.00
08/24/82		74.00	42.00	0.01		392.23				2783.00	1532.50	1767.00
08/25/82		76.00	40.00	0.11		403.30				2802.00	1541.50	1780.00
08/26/82		73.00	39.00	0.01		391.00				2819.50	1549.50	1791.50
08/27/82		68.00	35.00	0.00		574.27				2828.50	1549.50	1797.50
08/28/82		68.00	40.00	0.00		532.45				2842.00	1553.50	1806.50
08/29/82		76.00	51.00	0.02		270.47				2865.50	1566.50	1820.50
08/30/82		76.00	43.00	0.00		311.06				2885.00	1576.50	1833.50
08/31/82		61.00	44.00	0.12		90.90				2900.00	1581.50	1838.50
09/01/82		77.00	50.00	1.16		416.83				2926.50	1597.50	1855.50
09/02/82		77.00	48.00	0.00		277.85				2949.50	1610.50	1868.50
09/03/82		70.00	44.00	0.02		565.66				2966.50	1617.50	1878.50
09/04/82		82.00	44.00	0.00		480.79				2990.00	1631.50	1894.50
09/05/82		88.00	42.00	0.00		400.84				3016.00	1647.50	1910.50
09/06/82		88.00	42.00	0.00		493.09				3030.50	1651.50	1919.50
09/07/82		67.00	40.00	0.00		244.64				3044.00	1655.50	1927.50
09/08/82		72.00	35.00	0.00		183.14				3068.50	1669.50	1942.50
09/09/82		88.00	35.00	0.00		330.74				3102.50	1693.50	1966.50
09/10/82		80.00	35.00	0.00		276.62				3135.50	1716.50	1988.50
09/11/82		78.00	31.00	0.07		164.69				3164.50	1735.50	2008.50
09/12/82		70.00	33.00	1.10		88.44				3186.00	1747.50	2019.50
09/13/82		66.00	48.00	1.11		74.91				3200.50	1751.50	2025.50
09/14/82		55.00	46.00	0.00		149.93				3211.50	1752.50	2027.50
09/15/82		47.00	41.00	0.21		153.62				3218.50	1752.50	2029.50
09/16/82		47.00	34.00	0.00		178.22				3224.50	1752.50	2033.50
09/17/82		66.00	48.00	0.33		245.87				3238.50	1756.50	2038.50
09/18/82		88.00	33.00	0.04		341.81				3249.00	1757.50	2047.50
09/19/82		88.00	35.00	0.02		259.40				3265.50	1763.50	2056.50
09/20/82		88.00	32.00	0.00		303.68				3269.00	1763.50	2059.50
09/21/82		88.00	33.00	0.00		406.99				3274.50	1763.50	2065.50
09/22/82		88.00	33.00	0.00		375.02				3285.50	1764.50	2075.50
09/23/82		88.00	44.00	0.24		170.84				3300.50	1769.50	2083.50
09/24/82		88.00	45.00	0.24		190.52				3312.50	1771.50	2087.50
09/25/82		66.00	28.00	0.00		400.84				3316.50	1771.50	2092.50
09/26/82		66.00	36.00	0.00		317.21				3329.00	1773.50	2102.50
09/27/82		66.00	43.00	0.06		153.62				3343.00	1777.50	2109.50
09/28/82		66.00	49.00	0.00		85.98				3358.00	1782.50	2115.50
09/29/82		66.00	59.00	0.32		127.79				3380.00	1794.50	2127.50
09/30/82		63.00	39.00	0.01		343.04				3391.00	1795.50	2133.50

LOCATION : GRAND RAPIDS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
10/01/82	58.00	35.00	0		229.88				3397.50	1795.50	2137.50
10/02/82	53.00	41.00	1.39		56.46				3404.50	1795.50	2139.00
10/03/82	63.00	43.00	.02		349.19				3417.50	1798.50	2145.50
10/04/82	68.00	42.00	.02		236.03				3432.50	1803.50	2154.50
10/05/82	67.00	37.00	0		279.08				3444.50	1805.50	2163.00
10/06/82	57.00	45.00	.81		61.38				3455.50	1806.50	2166.50
10/07/82	50.00	37.00	.61		103.20				3459.00	1806.50	2166.50
10/08/82	52.00	42.00	.02		108.12				3466.00	1806.50	2167.50
10/09/82	53.00	43.00	.43		35.55				3474.00	1806.50	2169.00
10/10/82	54.00	44.00	.32		108.12				3483.00	1806.50	2171.00
10/11/82	57.00	45.00	.14		145.01				3494.00	1807.50	2174.50
10/12/82	51.00	43.00	.17		85.98				3501.00	1807.50	2175.00
10/13/82	50.00	41.00	.04		103.20				3506.50	1807.50	2175.00
10/14/82	65.00	42.00	0		296.30				3520.00	1811.00	2182.50
10/15/82	63.00	40.00	0		272.93				3531.50	1812.50	2189.00
10/16/82	48.00	28.00	0		148.70				3531.50	1812.50	2189.00
10/17/82	58.00	34.00	.26		242.18				3537.50	1812.50	2193.00
10/18/82	58.00	40.00	.01		100.74				3546.50	1812.50	2197.00
10/19/82	53.00	35.00	.02		61.38				3550.50	1812.50	2198.50
10/20/82	41.00	29.00	0		202.82				3550.50	1812.50	2198.50
10/21/82	47.00	30.00	0		269.24				3550.50	1812.50	2198.50
10/22/82	54.00	24.00	0		271.70				3550.50	1812.50	2200.50
10/23/82	60.00	28.00	0		256.94				3554.50	1812.50	2205.50
10/24/82	61.00	35.00	0		227.42				3562.50	1812.50	2211.00
10/25/82	65.00	31.00	0		239.72				3570.50	1812.50	2218.50
10/26/82	65.00	44.00	0		170.84				3585.00	1817.00	2226.00
10/27/82	62.00	43.00	0		136.40				3597.50	1819.50	2232.00
10/28/82	56.00	44.00	.01		84.75				3607.50	1819.50	2235.00
10/29/82	54.00	40.00	.09		152.39				3614.50	1819.50	2237.00
10/30/82	55.00	30.00	0		256.94				3617.00	1819.50	2239.50
10/31/82	55.00	28.00	0		168.38				3618.50	1819.50	2242.00

LOCATION : L A M B E R T O N

		DEGREE DAYS										
		MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 45 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
04/01/82	55.00	30.00				446.00		46.00	36.00	0.00	0.00	2.50
04/02/82	56.00	32.00				386.00		45.00	36.00	0.00	0.00	5.50
04/03/82	78.00		.9			168.00		53.00	36.00	0.00	0.00	19.50
04/04/82	33.00	7.00				337.00		36.00	34.00	0.00	0.00	19.50
04/05/82	22.00	6.00				223.00		35.00	34.00	0.00	0.00	19.50
04/06/82	28.00	6.00				113.00		34.00	34.00	0.00	0.00	19.50
04/07/82	32.00	4.00				248.00		33.00	33.00	0.00	0.00	19.50
04/08/82	27.00	2.00				13.00		34.00	34.00	0.00	0.00	19.50
04/09/82	28.00	1.00				27.00		34.00	34.00	0.00	0.00	19.50
04/10/82	37.00	4.00				427.00		34.00	34.00	0.00	0.00	19.50
04/11/82	46.00	6.00				446.00		34.00	34.00	0.00	0.00	19.50
04/12/82	47.00	4.00				472.00		34.00	34.00	0.00	0.00	19.50
04/13/82	55.00	3.00				169.00		35.00	34.00	0.00	0.00	23.50
04/14/82	60.00	3.00				493.00		54.00	35.00	4.00	0.00	28.50
04/15/82	72.00	4.00				396.00		56.00	44.00	17.50	8.50	39.50
04/16/82	74.00	4.00	.7			283.00		62.00	50.00	32.00	18.00	51.50
04/17/82	49.00	3.00	.0			103.00		52.00	42.00	32.00	18.00	51.50
04/18/82	46.00	2.00	.0			222.00		54.00	42.00	40.00	21.00	55.50
04/19/82	40.00	2.00	.3			151.00		58.00	42.00	45.50	21.50	65.00
04/20/82	45.00	2.00	.4			76.00		46.00	40.00	45.50	21.50	65.00
04/21/82	45.00	2.00				27.00		41.00	38.00	45.50	21.50	65.00
04/22/82	44.00	2.00				76.00		52.00	40.00	45.50	21.50	66.50
04/23/82	50.00	4.00				44.00		55.00	41.00	51.00	22.00	71.50
04/24/82	50.00	4.00				42.00		59.00	46.00	67.00	33.00	84.50
04/25/82	76.00	6.00				20.00		64.00	52.00	85.00	46.00	97.50
04/26/82	88.00	6.00				52.00		61.00	50.00	91.00	47.00	105.50
04/27/82	66.00	6.00				71.00	.3	62.00	49.00	91.00	47.00	109.50
04/28/82	64.00	6.00				51.00	.15	65.00	47.00	95.50	47.00	116.50
04/29/82	70.00	6.00				18.00	.3	61.00	50.00	97.50	47.00	122.00
04/30/82	74.00	6.00				498.00	.3	62.00	49.00	105.50	50.00	130.50
05/01/82	58.00	6.00	.0			415.00	.17	66.00	53.00	115.50	55.00	139.50
05/02/82	74.00	6.00				514.00	.3	70.00	53.00	129.50	64.00	151.50
05/03/82	79.00	6.00				522.00	.27	71.00	55.00	151.00	80.50	168.00
05/04/82	88.00	6.00				493.00	.42	74.00	60.00	180.00	105.00	191.50
05/05/82	88.00	6.00				356.00	.42	73.00	60.00	204.00	123.50	209.50
05/06/82	85.00	6.00	.2			100.00	.0	60.00	54.00	209.00	123.50	212.00
05/07/82	64.00	6.00				304.00	.21	62.00	52.00	214.50	124.50	220.50
05/08/82	64.00	6.00				446.00	.14	63.00	50.00	219.00	124.00	227.50
05/09/82	73.00	6.00	.1			453.00	.11	66.00	51.00	230.00	130.00	239.00
05/10/82	78.00	6.00	.0			374.00	.25	69.00	59.00	254.00	149.00	257.50
05/11/82	85.00	6.00	.1			448.00	.45	72.00	62.00	277.00	167.00	275.50
05/12/82	85.00	6.00	.1			459.00	.15	71.00	61.00	290.00	175.50	284.00
05/13/82	66.00	6.00	.7			87.00	.0	63.00	60.00	304.00	184.50	293.00
05/14/82	70.00	6.00	.3			166.00	.54	67.00	60.00	321.00	196.50	305.00
05/15/82	69.00	6.00	.0			176.00	.0	66.00	62.00	339.00	209.00	317.50
05/16/82	69.00	6.00	.0			20.00	.0	64.00	59.00	354.00	219.00	327.50
05/17/82	69.00	6.00	.0			112.00	.21	71.00	59.00	376.00	236.00	345.00
05/18/82	65.00	6.00	.4			103.00	.0	64.00	62.00	391.00	246.00	355.00
05/19/82	72.00	6.00	.0			497.00	.15	68.00	60.00	408.00	258.00	366.50
05/20/82	72.00	6.00	.0			499.00	.26	64.00	60.00	427.00	272.00	380.50
05/21/82	66.00	6.00	.0			222.00	.15	64.00	56.00	436.00	276.00	387.50
05/22/82	64.00	6.00	.0			139.00	.0	58.00	56.00	446.00	281.00	394.00
05/23/82	62.00	6.00	.0			18.00	.10	60.00	54.00	453.00	283.00	399.50
05/24/82	62.00	6.00	.0			579.00	.30	70.00	54.00	467.00	292.00	410.50
05/25/82	68.00	6.00	.0			299.00	.15	67.00	59.00	482.00	302.00	420.50
05/26/82	68.00	6.00	.2			290.00	.0	66.00	62.00	499.00	314.00	432.00
05/27/82	71.00	6.00	.0			11.00	.0	62.00	61.00	512.00	322.00	440.00
05/28/82	75.00	6.00	.1			237.00	.09	68.00	60.00	527.00	332.00	450.50
05/29/82	75.00	6.00	.0			337.00	.15	70.00	60.00	548.00	348.00	466.50
05/30/82	75.00	6.00	.0			397.00	.30	72.00	61.00	565.00	360.00	479.00
05/31/82	77.00	6.00	.3			302.00	.0	71.00	60.00	582.00	372.00	492.50

LOCATION : LAMBERTON

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 45 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
06/01/82	54.00	43.00	0	83.00	454.00	.21	63.00	54.00	586.00	372.50	494.50
06/02/82	72.00	41.00	0	63.00	590.00	.30	70.00	40.00	597.50	375.00	505.50
06/03/82	65.00	43.00	0	23.00	528.00	.19	71.00	59.00	606.50	383.00	513.00
06/04/82	70.00	48.00	0	28.00	544.00	.30	77.00	60.00	620.50	392.00	523.00
06/05/82	73.00	54.00	0	41.00	516.00	.30	78.00	62.00	639.00	405.50	536.50
06/06/82	77.00	57.00	.85	122.00	453.00	0	76.00	64.00	661.00	422.50	553.50
06/07/82	72.00	54.00	0	149.00	173.00	.15	68.00	61.00	679.00	435.50	566.50
06/08/82	73.00	48.00	0	61.00	532.00	.21	72.00	59.00	694.50	446.00	578.00
06/09/82	77.00	55.00	.28	74.00	462.00	0	75.00	60.00	715.50	462.00	594.00
06/10/82	63.00	49.00	0	104.00	252.00	.15	65.00	57.00	726.50	468.00	600.50
06/11/82	71.00	50.00	0	18.00	599.00	.29	76.00	67.00	742.00	478.50	611.00
06/12/82	74.00	50.00	.28	19.00	184.00	0	68.00	60.00	759.00	490.50	623.50
06/13/82	71.00	46.00	0	40.00	601.00	.29	74.00	60.00	772.50	499.00	633.50
06/14/82	81.00	61.00	0	30.00	624.00	.29	80.00	60.00	798.50	520.00	654.50
06/15/82	69.00	57.00	.65	15.00	117.00	0	69.00	64.00	816.50	533.00	667.50
06/16/82	72.00	47.00	0	86.00	573.00	.33	74.00	60.00	831.00	542.50	678.50
06/17/82	82.00	55.00	.12	73.00	554.00	.24	78.00	60.00	854.50	551.00	697.00
06/18/82	75.00	56.00	0	61.00	486.00	.24	78.00	66.00	875.00	576.50	712.50
06/19/82	68.00	47.00	0	44.00	259.00	.15	71.00	60.00	887.50	584.00	721.50
06/20/82	73.00	53.00	0	78.00	407.00	.30	73.00	60.00	905.50	597.00	734.50
06/21/82	72.00	51.00	0	72.00	501.00	.27	75.00	62.00	922.00	608.50	746.00
06/22/82	76.00	46.00	0	63.00	513.00	.30	78.00	63.00	938.00	619.50	759.00
06/23/82	78.00	53.00	0	6.00	607.00	.30	84.00	64.00	958.50	635.00	774.50
06/24/82	89.00	64.00	0	63.00	524.00	.39	83.00	71.00	990.00	661.50	799.50
06/25/82	79.00	54.00	.02	120.00	257.00	.19	78.00	68.00	1011.50	678.00	816.00
06/26/82	76.00	48.00	0	68.00	574.00	.30	82.00	66.00	1028.50	690.00	829.00
06/27/82	77.00	52.00	0	24.00	372.00	.15	77.00	66.00	1048.00	704.50	843.50
06/28/82	86.00	60.00	0	7.00	582.00	.27	87.00	71.00	1076.00	727.50	866.50
06/29/82	91.00	56.00	0	79.00	535.00	.43	88.00	71.00	1104.50	751.00	887.50
06/30/82	75.00	54.00	0	54.00	347.00	.22	78.00	68.00	1124.00	765.50	902.00
07/01/82	78.00	54.00	0	45.00	463.00	.27	82.00	68.00	1145.00	781.50	918.00
07/02/82	84.00	61.00	0	58.00	308.00	.28	84.00	72.00	1172.50	804.00	940.50
07/03/82	80.00	68.00	0	8.00	329.00	.15	80.00	72.00	1201.50	828.00	964.50
07/04/82	91.00	60.00	0	43.00	599.00	.43	88.00	72.00	1232.00	853.50	987.50
07/05/82	98.00	72.00	0	83.00	579.00	.55	90.00	72.00	1272.00	888.50	1016.50
07/06/82	94.00	65.00	.39	116.00	396.00	.03	86.00	74.00	1306.50	918.00	1042.00
07/07/82	85.00	60.00	.32	61.00	332.00	0	83.00	68.00	1334.00	940.50	1064.50
07/08/82	76.00	60.00	.26	32.00	556.00	.06	80.00	70.00	1357.00	958.50	1082.50
07/09/82	84.00	63.00	.41	50.00	457.00	.04	80.00	70.00	1385.50	982.00	1106.00
07/10/82	84.00	64.00	0	38.00	346.00	.15	82.00	72.00	1414.50	1006.00	1130.00
07/11/82	67.00	57.00	.13	60.00	88.00	0	73.00	68.00	1431.50	1018.00	1142.00
07/12/82	81.00	60.00	0	16.00	532.00	.20	81.00	71.00	1457.00	1038.50	1162.50
07/13/82	82.00	60.00	0	26.00	533.00	.25	84.00	72.00	1483.00	1059.50	1183.50
07/14/82	80.00	64.00	0	6.00	396.00	.15	80.00	73.00	1510.00	1081.50	1205.50
07/15/82	87.00	66.00	.76	3.00	474.00	0	84.00	72.00	1541.50	1108.00	1231.50
07/16/82	86.00	65.00	0	25.00	379.00	.21	84.00	76.00	1572.00	1133.50	1257.00
07/17/82	89.00	66.00	.09	77.00	492.00	.27	85.00	76.00	1604.50	1161.00	1283.00
07/18/82	78.00	58.00	0	18.00	474.00	.23	88.00	71.00	1627.50	1179.00	1301.00
07/19/82	81.00	59.00	0	6.00	550.00	.22	88.00	73.00	1652.50	1199.00	1321.00
07/20/82	88.00	68.00	0	22.00	524.00	.24	89.00	78.00	1685.50	1227.00	1348.00
07/21/82	91.00	64.00	1.50	41.00	549.00	0	93.00	77.00	1718.00	1254.50	1373.00
07/22/82	85.00	66.00	0	7.00	498.00	.30	89.00	76.00	1748.50	1280.00	1398.50
07/23/82	85.00	64.00	0	6.00	537.00	.15	90.00	76.00	1778.00	1304.50	1423.00
07/24/82	85.00	68.00	.02	26.00	441.00	.23	87.00	76.00	1809.50	1331.00	1449.50
07/25/82	88.00	68.00	0	28.00	342.00	.15	86.00	76.00	1842.50	1359.00	1476.50
07/26/82	83.00	66.00	0	49.00	324.00	.15	86.00	77.00	1872.00	1383.50	1501.00
07/27/82	73.00	60.00	0	27.00	169.00	.13	78.00	73.00	1893.50	1400.00	1517.50
07/28/82	80.00	56.00	0	14.00	531.00	.25	86.00	73.00	1916.50	1418.00	1535.50
07/29/82	82.00	65.00	0	4.00	518.00	.23	86.00	76.00	1945.00	1441.50	1559.00
07/30/82	77.00	56.00	0	41.00	525.00	.30	84.00	72.00	1966.50	1458.00	1575.50
07/31/82	79.00	55.00	0	16.00	436.00	.25	84.00	72.00	1988.50	1475.00	1592.50

LOCATION : L A M B E R T O N

		DEGREE DAYS										
					BASE = 45			BASE = 50			BASE = 50/86	
DATE	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	ACCUM VALUE	ACCUM VALUE	ACCUM VALUE	ACCUM VALUE
08/01/82	84.00	67.00	0	25.00	480.00	.24	85.00	72.00	2019.00	1500.50	1618.00	1618.00
08/02/82	89.00	70.00	0	1.00	503.00	.25	88.00	76.00	2053.50	1530.00	1646.00	1646.00
08/03/82	94.00	75.00	0	78.00	497.00	.30	89.00	79.00	2093.00	1564.50	1676.50	1676.50
08/04/82	81.00	68.00	.25	6.00	223.00	0	82.00	76.00	2122.50	1589.00	1701.00	1701.00
08/05/82	86.00	67.00	0	24.00	361.00	.24	90.00	78.00	2154.00	1615.50	1727.50	1727.50
08/06/82	87.00	64.00	0	3.00	152.00	.29	90.00	77.00	2184.50	1641.00	1752.50	1752.50
08/07/82	82.00	60.00	0	0	271.00	.15	88.00	76.00	2210.50	1662.00	1773.50	1773.50
08/08/82	86.00	57.00	0	13.00	248.00	.15	88.00	76.00	2237.00	1683.50	1795.00	1795.00
08/09/82	75.00	51.00	0	73.00	403.00	.30	84.00	70.00	2255.00	1696.50	1808.00	1808.00
08/10/82	66.00	43.00	0	33.00	306.00	.15	78.00	66.00	2264.50	1701.00	1816.00	1816.00
08/11/82	72.00	42.00	0	3.00	367.00	.18	82.00	66.00	2276.50	1708.00	1827.00	1827.00
08/12/82	74.00	50.00	0	8.00	302.00	.22	83.00	68.00	2293.50	1720.00	1839.00	1839.00
08/13/82	75.00	57.00	.01	45.00	276.00	.20	79.00	72.00	2314.50	1736.00	1855.00	1855.00
08/14/82	79.00	60.00	0	0	151.00	.10	80.00	72.00	2339.00	1755.50	1874.50	1874.50
08/15/82	78.00	66.00	0	7.00	158.00	.09	77.00	72.00	2366.00	1777.50	1896.50	1896.50
08/16/82	81.00	58.00	0	16.00	123.00	.15	82.00	72.00	2390.50	1797.00	1916.00	1916.00
08/17/82	85.00	61.00	0	2.00	353.00	.21	88.00	71.00	2418.50	1820.00	1939.00	1939.00
08/18/82	86.00	64.00	0	5.00	205.00	.20	86.00	75.00	2448.50	1845.00	1964.00	1964.00
08/19/82	84.00	67.00	0	58.00	262.00	.21	83.00	75.00	2479.00	1870.50	1989.00	1989.00
08/20/82	88.00	58.00	0	18.00	178.00	.22	89.00	75.00	2507.00	1893.50	2011.00	2011.00
08/21/82	83.00	51.00	0	14.00	396.00	.28	86.00	73.00	2529.00	1910.50	2028.50	2028.50
08/22/82	84.00	65.00	0	107.00	190.00	.43	84.00	73.00	2558.50	1935.50	2053.00	2053.00
08/23/82	77.00	54.00	0	38.00	360.00	.20	83.00	72.00	2579.00	1950.50	2068.50	2068.50
08/24/82	79.00	58.00	2.51	10.00	209.00	0	84.00	70.00	2602.50	1969.00	2087.00	2087.00
08/25/82	74.00	49.00	.04	21.00	344.00	.15	76.00	66.00	2619.00	1980.50	2099.00	2099.00
08/26/82	80.00	55.00	0	50.00	278.00	.29	76.00	68.00	2641.50	1998.00	2116.50	2116.50
08/27/82	85.00	44.00	0	36.00	419.00	.03	79.00	66.00	2661.00	2012.50	2134.00	2134.00
08/28/82	74.00	46.00	0	13.00	443.00	.17	87.00	65.00	2676.00	2022.50	2146.00	2146.00
08/29/82	68.00	53.00	.15	42.00	166.00	0	70.00	67.00	2691.50	2033.00	2156.50	2156.50
08/30/82	75.00	55.00	.76	3.00	113.00	0	74.00	68.00	2711.50	2048.00	2171.00	2171.00
08/31/82	75.00	57.00	.22	18.00	335.00	0	78.00	68.00	2732.50	2064.00	2187.00	2187.00
09/01/82	81.00	60.00	.12	5.00	122.00	0	78.00	70.00	2758.00	2084.50	2208.00	2208.00
09/02/82	80.00	50.00	0	9.00	410.00	.24	78.00	65.00	2778.00	2099.50	2223.00	2223.00
09/03/82	73.00	48.00	0	46.00	450.00	.27	70.00	58.00	2793.50	2110.00	2234.00	2234.00
09/04/82	77.00	51.00	0	1.00	441.00	.24	75.00	63.00	2812.50	2124.00	2248.00	2248.00
09/05/82	83.00	62.00	0	15.00	392.00	.15	77.00	66.00	2840.00	2146.50	2271.00	2271.00
09/06/82	73.00	48.00	.26	70.00	256.00	0	76.00	68.00	2855.50	2157.00	2282.00	2282.00
09/07/82	60.00	47.00	.02	56.00	127.00	.05	67.00	62.00	2864.00	2160.50	2287.00	2287.00
09/08/82	75.00	59.00	0	2.00	171.00	.04	72.00	66.00	2886.00	2177.00	2304.00	2304.00
09/09/82	75.00	64.00	0	18.00	28.00	.09	72.00	69.00	2910.50	2197.00	2324.00	2324.00
09/10/82	80.00	63.00	.72	28.00	265.00	0	74.00	70.00	2937.00	2218.50	2345.00	2345.00
09/11/82	85.00	65.00	0	0	339.00	.15	81.00	70.00	2967.00	2243.50	2370.00	2370.00
09/12/82	82.00	56.00	.85	0	354.00	0	79.00	68.00	2991.00	2262.00	2389.00	2389.00
09/13/82	73.00	51.00	.72	0	115.00	0	73.00	64.00	3008.00	2274.00	2401.00	2401.00
09/14/82	57.00	51.00	0	64.00	64.00	.15	64.00	64.00	3017.00	2278.50	2405.50	2405.50
09/15/82	54.00	46.00	.25	35.00	61.00	0	61.00	59.00	3022.00	2278.50	2407.50	2407.50
09/16/82	57.00	40.00	0	215.00	56.00	.11	63.00	56.00	3025.50	2278.50	2411.00	2411.00
09/17/82	58.00	47.00	0	146.00	62.00	0	62.00	56.00	3033.00	2281.00	2415.00	2415.00
09/18/82	65.00	39.00	0	6.00	65.00	.12	65.00	54.00	3040.00	2283.00	2422.00	2422.00
09/19/82	71.00	50.00	0	369.00	68.00	.13	68.00	54.00	3055.50	2293.50	2433.00	2433.00
09/20/82	61.00	45.00	0	588.00	65.00	.25	65.00	57.00	3063.50	2296.00	2438.50	2438.50
09/21/82	59.00	33.00	0	327.00	64.00	.15	64.00	53.00	3064.50	2296.50	2443.00	2443.00
09/22/82	65.00	36.00	0	400.00	67.00	.15	67.00	52.00	3070.00	2297.00	2450.00	2450.00
09/23/82	72.00	43.00	0	372.00	68.00	.15	68.00	54.00	3082.50	2304.50	2461.50	2461.50
09/24/82	77.00	50.00	0	344.00	70.00	.28	70.00	58.00	3101.00	2318.00	2475.00	2475.00
09/25/82	55.00	46.00	0	75.00	60.00	0	60.00	58.00	3106.50	2318.50	2477.50	2477.50
09/26/82	65.00	42.00	0	351.00	69.00	.15	69.00	57.00	3115.50	2322.00	2485.00	2485.00
09/27/82	72.00	45.00	0	339.00	69.00	.15	69.00	57.00	3128.50	2330.00	2496.00	2496.00
09/28/82	73.00	46.00	0	323.00	68.00	.30	68.00	58.00	3143.00	2340.00	2507.50	2507.50
09/29/82	77.00	58.00	.81	281.00	70.00	0	70.00	61.00	3165.50	2357.50	2525.00	2525.00
09/30/82	79.00	43.00	.06	225.00	70.00	.15	70.00	60.00	3181.50	2368.50	2539.50	2539.50

LOCATION : L A M B E R T O N

	DEGREE DAYS										
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 45 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
10/01/82	56.00	43.00	.48		94.00	0	60.00	58.00	3186.00	2368.50	2542.50
10/02/82	63.00	47.00	.74		46.00	0	62.00	61.00	3196.00	2373.50	2549.00
10/03/82	58.00	41.00	.05		169.00	.07	62.00	54.00	3200.50	2373.50	2553.00
10/04/82	72.00	52.00	0		343.00	.15	66.00	54.00	3217.50	2385.50	2565.00
10/05/82	80.00	49.00	0		290.00	.15	66.00	57.00	3237.00	2400.00	2580.00
10/06/82	73.00	50.00	.57		248.00	0	66.00	58.00	3253.50	2411.50	2591.50
10/07/82	65.00	38.00	.20		74.00	0	64.00	52.00	3260.00	2413.00	2599.00
10/08/82	60.00	36.00	0		324.00	.15	60.00	50.00	3263.00	2413.00	2604.00
10/09/82	58.00	38.00	.51		84.00	0	56.00	50.00	3266.00	2413.00	2608.00
10/10/82	60.00	36.00	.30		70.00	0	59.00	55.00	3269.00	2413.00	2613.00
10/11/82	60.00	37.00	.04		119.00	.08	58.00	52.00	3272.50	2413.00	2618.00
10/12/82	60.00	43.00	0		80.00	0	53.00	52.00	3279.00	2414.50	2623.00
10/13/82	49.00	42.00	.09		85.00	0	52.00	48.00	3279.50	2414.50	2623.00
10/14/82	49.00	39.00	0		77.00	0	52.00	44.00	3279.50	2414.50	2623.00
10/15/82	70.00	43.00	0		283.00	.15	60.00	44.00	3291.00	2421.00	2633.00
10/16/82	58.00	31.00	0		312.00	.15	55.00	40.00	3291.00	2421.00	2637.00
10/17/82	60.00	32.00	0		279.00	.12	56.00	40.00	3292.00	2421.00	2642.00
10/18/82	73.00	47.00	0		280.00	0	62.00	48.00	3307.00	2431.00	2653.50
10/19/82	67.00	39.00	0		119.00	0	58.00	52.00	3315.00	2434.00	2662.00
10/20/82	41.00	27.00	1.00		9.00	0	50.00	45.00	3315.00	2434.00	2662.00
10/21/82	36.00	18.00	0		200.00	0	44.00	42.00	3315.00	2434.00	2662.00
10/22/82	45.00	19.00	0		294.00	0	42.00	41.00	3315.00	2434.00	2662.00
10/23/82	57.00	33.00	0		273.00	0	49.00	42.00	3315.00	2434.00	2665.50
10/24/82	64.00	38.00	0		279.00	0	52.00	43.00	3321.00	2435.00	2672.50
10/25/82	66.00	44.00	0		229.00	0	53.00	45.00	3331.00	2440.00	2680.50
10/26/82	72.00	45.00	0		272.00	0	56.00	48.00	3344.50	2448.50	2691.50
10/27/82	67.00	47.00	0		190.00	0	54.00	50.00	3356.50	2455.50	2700.00
10/28/82	60.00	44.00	0		87.00	0	53.00	50.00	3363.50	2457.50	2705.00
10/29/82	57.00	35.00	0		151.00	0	54.00	50.00	3364.50	2457.50	2708.50
10/30/82	60.00	29.00	0		218.00	0	53.00	48.00	3364.50	2457.50	2713.50
10/31/82	50.00	29.00	0		151.00	0	51.00	35.00	3364.50	2457.50	2713.50

LOCATION : MORRIS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUMUL VALUE	BASE = 45 ACCUMUL VALUE	BASE = 50/86 ACCUMUL VALUE
04/01/82	46.00	27.00	0				45.00	32.00	0	0	0
04/02/82	47.00	30.00	0				42.00	32.00	0	0	0
04/03/82	49.00	11.00	1.25				44.00	33.00	0	0	0
04/04/82	20.00	10.00	0				35.00	32.00	0	0	0
04/05/82	27.00	12.00	0				32.00	32.00	0	0	0
04/06/82	28.00	14.00	0				32.00	31.00	0	0	0
04/07/82	30.00	20.00	0				32.00	32.00	0	0	0
04/08/82	32.00	23.00	.06				32.00	32.00	0	0	0
04/09/82	34.00	24.00	.05				32.00	32.00	0	0	0
04/10/82	39.00	27.00	.06				33.00	32.00	0	0	0
04/11/82	38.00	27.00	0				34.00	32.00	0	0	0
04/12/82	47.00	31.00	.20				42.00	32.00	0	0	0
04/13/82	49.00	30.00	0				43.00	34.00	0	0	0
04/14/82	55.00	34.00	.05				56.00	33.00	4.50	0	2.50
04/15/82	68.00	46.00	0				56.00	41.00	21.50	12.00	11.50
04/16/82	75.00	42.00	0				62.00	46.00	40.00	25.50	24.00
04/17/82	52.00	31.00	0				47.00	36.00	41.50	25.50	25.00
04/18/82	56.00	34.00	0				47.00	33.00	46.50	25.50	28.00
04/19/82	60.00	34.00	0				55.00	35.00	53.50	27.50	33.00
04/20/82	48.00	27.00	0			.09	43.00	34.00	53.50	27.50	33.00
04/21/82	45.00	29.00	0			.18	43.00	33.00	53.50	27.50	33.00
04/22/82	53.00	30.00	0			.11	53.00	33.00	55.00	27.50	34.50
04/23/82	63.00	37.00	0			.27	56.00	35.00	65.00	32.50	41.00
04/24/82	77.00	44.00	0			.42	60.00	39.00	85.50	48.00	54.50
04/25/82	77.00	48.00	0			.35	66.00	46.00	108.00	65.50	68.00
04/26/82	65.00	31.00	0			.25	64.00	42.00	116.00	68.50	75.50
04/27/82	58.00	32.00	0			.19	63.00	41.00	121.00	68.50	79.50
04/28/82	63.00	33.00	0			.23	62.00	40.00	129.00	71.50	86.00
04/29/82	64.00	32.00	0			.33	62.00	43.00	137.00	74.50	93.00
04/30/82	66.00	41.00	.07			.31	60.00	42.00	150.50	83.00	101.00
05/01/82	68.00	39.00	0		2.73	.22	68.00	48.00	164.00	91.50	110.00
05/02/82	75.00	41.00	0			.34	72.00	48.00	182.00	104.50	122.50
05/03/82	79.00	47.00	0			.47	72.00	51.00	205.00	122.50	137.00
05/04/82	87.00	60.00	0			.46	74.00	56.00	238.50	151.00	160.00
05/05/82	79.00	44.00	.02			.22	70.00	54.00	260.00	167.50	174.50
05/06/82	59.00	36.00	0			.10	59.00	48.00	267.50	170.00	179.00
05/07/82	67.00	26.00	0			.24	62.00	43.00	274.00	171.50	187.50
05/08/82	60.00	33.00	0			.20	63.00	42.00	280.50	173.00	192.50
05/09/82	72.00	46.00	.05			.31	71.00	45.00	299.50	187.00	203.50
05/10/82	71.00	52.00	.19			.19	62.00	55.00	321.00	203.50	215.00
05/11/82	77.00	47.00	.56			.24	68.00	55.00	343.00	220.50	228.50
05/12/82	56.00	46.00	.10			.08	61.00	53.00	354.00	226.50	231.50
05/13/82	55.00	49.00	.56			.05	55.00	53.00	366.00	233.50	234.00
05/14/82	66.00	50.00	.24			.07	65.00	53.00	384.00	246.50	242.00
05/15/82	72.00	57.00	.09			.13	65.00	59.00	408.50	266.00	256.50
05/16/82	68.00	55.00	.02			.19	64.00	57.00	430.00	282.50	268.00
05/17/82	77.00	57.00	.02			.21	69.00	57.00	457.00	304.50	285.00
05/18/82	68.00	53.00	.43			.09	67.00	59.00	477.50	320.00	295.50
05/19/82	65.00	46.00	0			.10	63.00	54.00	493.00	330.50	303.00
05/20/82	68.00	47.00	0			.18	70.00	54.00	510.50	343.00	312.00
05/21/82	65.00	41.00	0			.30	68.00	51.00	523.50	351.00	319.50
05/22/82	62.00	43.00	0			.14	60.00	50.00	536.00	358.50	325.50
05/23/82	72.00	43.00	0			.22	72.00	48.00	553.50	371.00	336.50
05/24/82	73.00	49.00	0			.33	80.00	52.00	574.50	387.00	348.00
05/25/82	70.00	53.00	0			.13	68.00	60.00	596.00	403.50	359.50
05/26/82	69.00	55.00	0			.17	73.00	62.00	618.00	420.50	371.50
05/27/82	64.00	57.00	.13			.05	64.00	60.00	638.50	436.00	382.00
05/28/82	71.00	50.00	0			.09	72.00	59.00	659.00	451.50	392.50
05/29/82	75.00	57.00	.26			.20	74.00	58.00	685.00	472.50	408.50
05/30/82	76.00	48.00	0			.24	76.00	60.00	707.00	489.50	421.50
05/31/82	67.00	41.00	.12			.11	67.00	53.00	721.00	498.50	430.00

LOCATION: MORRIS

										DEGREE DAYS		
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCULM VALUE	BASE = 45 ACCULM VALUE	BASE = 50/86 ACCULM VALUE	
06/01/82	58.00	39.00	0			.19	65.00	50.00	729.50	502.00	434.00	
06/02/82	67.00	34.00	0			.27	75.00	50.00	740.00	507.50	444.50	
06/03/82	64.00	40.00	0			.19	77.00	51.00	752.00	514.50	449.50	
06/04/82	69.00	44.00	0			.21	80.00	55.00	768.50	526.00	459.50	
06/05/82	75.00	50.00	0			.38	80.00	58.00	791.00	543.50	471.00	
06/06/82	75.00	57.00	.36			.40	76.00	61.00	817.00	564.50	487.00	
06/07/82	70.00	53.00	.03			.09	65.00	58.00	838.50	581.00	499.50	
06/08/82	64.00	40.00	0			.11	64.00	52.00	850.50	588.00	509.50	
06/09/82	71.00	49.00	0			.19	76.00	52.00	870.50	603.00	516.50	
06/10/82	61.00	44.00	.08			.07	62.00	52.00	883.00	610.50	522.00	
06/11/82	72.00	41.00	0			.25	52.00	52.00	899.50	622.00	533.50	
06/12/82	77.00	44.00	.05		374.00	.14	75.00	55.00	920.00	637.50	546.50	
06/13/82	72.00	46.00	0		628.00	.20	82.00	53.00	939.00	651.50	557.00	
06/14/82	80.00	54.00	0		625.00	.30	88.00	59.00	966.00	673.50	574.00	
06/15/82	72.00	53.00	.09		306.00	.37	79.00	63.00	988.50	691.00	587.00	
06/16/82	73.00	45.00	0		618.00	.25	84.00	62.00	1007.50	705.00	598.00	
06/17/82	82.00	56.00	.15		422.00	.15	81.00	61.00	1036.50	729.00	617.00	
06/18/82	72.00	50.00	0		467.00	.28	80.00	63.00	1057.50	745.00	628.00	
06/19/82	69.00	40.00	0		399.00	.20	80.00	60.00	1072.00	754.50	638.00	
06/20/82	73.00	50.00	.02		342.00	.24	72.00	60.00	1093.50	771.00	649.50	
06/21/82	71.00	44.00	0		466.00	.21	78.00	60.00	1111.00	783.50	666.00	
06/22/82	74.00	41.00	0		544.00	.30	84.00	60.00	1128.50	796.00	677.00	
06/23/82	76.00	51.00	0		533.00	.24	87.00	61.00	1152.00	814.50	685.50	
06/24/82	88.00	59.00	.21		553.00	.36	88.00	67.00	1185.50	843.00	708.00	
06/25/82	69.00	45.00	0		277.00	.20	78.00	60.00	1202.50	855.00	717.00	
06/26/82	72.00	47.00	0		583.00	.21	84.00	58.00	1222.00	869.50	728.00	
06/27/82	77.00	55.00	0		552.00	.25	87.00	63.00	1248.00	890.50	744.00	
06/28/82	88.00	60.00	0		483.00	.30	92.00	68.00	1282.00	919.00	767.00	
06/29/82	91.00	52.00	.93		421.00	.56	88.00	65.00	1313.50	946.50	786.00	
06/30/82	72.00	51.00	0		491.00	.24	78.00	61.00	1335.00	962.50	798.00	
07/01/82	75.00	51.00	0		551.00	.28	86.00	61.00	1358.00	980.50	811.00	
07/02/82	79.00	59.00	0		558.00	.31	88.00	63.00	1387.00	1004.50	830.00	
07/03/82	80.00	62.00	.25		289.00	.13	86.00	69.00	1418.00	1030.50	851.00	
07/04/82	89.00	59.00	0		636.00	.27	95.00	69.00	1452.00	1059.50	873.00	
07/05/82	93.00	65.00	0		585.00	.43	98.00	72.00	1491.00	1093.50	899.50	
07/06/82	92.00	63.00	1.05		477.00	.54	97.00	72.00	1528.50	1126.00	923.00	
07/07/82	79.00	58.00	.25		248.00	.14	84.00	66.00	1557.00	1149.50	944.50	
07/08/82	72.00	54.00	.09		571.00	.36	78.00	65.00	1580.00	1167.50	955.50	
07/09/82	84.00	58.00	1.58		411.00	0	80.00	63.00	1611.00	1193.50	975.50	
07/10/82	78.00	60.00	.01		299.00	.18	79.00	68.00	1640.00	1217.50	995.50	
07/11/82	66.00	54.00	.04		94.00	.02	73.00	62.00	1660.00	1232.50	1005.50	
07/12/82	81.00	58.00	0		552.00	.25	82.00	59.00	1689.50	1257.00	1024.00	
07/13/82	85.00	61.00	.07		535.00	.22	93.00	64.00	1722.50	1285.00	1047.00	
07/14/82	79.00	59.00	.10		265.00	.12	79.00	68.00	1751.50	1309.00	1066.00	
07/15/82	85.00	66.00	.23		489.00	.33	91.00	63.00	1787.00	1339.50	1092.50	
07/16/82	82.00	66.00	.17		355.00	.14	84.00	69.00	1821.00	1368.50	1111.60	
07/17/82	87.00	59.00	.02		289.00	.28	83.00	69.00	1854.00	1396.50	1138.80	
07/18/82	77.00	55.00	0		573.00	.18	90.00	64.00	1880.00	1417.50	1154.40	
07/19/82	79.00	58.00	0		563.00	.13	95.00	65.00	1908.50	1441.00	1173.30	
07/20/82	83.00	64.00	0		479.00	.20	91.00	68.00	1942.00	1469.50	1196.60	
07/21/82	91.00	64.00	.05		591.00	.40	98.00	72.00	1979.50	1502.00	1221.10	
07/22/82	87.00	60.00	0		533.00	.25	99.00	73.00	2013.00	1530.50	1244.40	
07/23/82	86.00	63.00	0		571.00	.29	98.00	77.00	2047.50	1560.00	1269.00	
07/24/82	87.00	67.00	0		405.00	.25	92.00	78.00	2084.50	1592.00	1295.50	
07/25/82	90.00	57.00	.22		389.00	.25	93.00	77.00	2118.00	1620.50	1317.00	
07/26/82	78.00	58.00	.21		317.00	.21	88.00	74.00	2146.00	1643.50	1335.00	
07/27/82	78.00	54.00	.02		375.00	.17	88.00	70.00	2172.00	1664.50	1351.00	
07/28/82	82.00	58.00	0		541.00	.25	94.00	68.00	2202.00	1689.50	1371.00	
07/29/82	82.00	61.00	0		453.00	.24	94.00	73.00	2233.50	1716.00	1392.50	
07/30/82	78.00	53.00	0		510.00	.30	90.00	72.00	2259.00	1736.50	1408.00	
07/31/82	81.00	51.00	0		491.00	.23	90.00	70.00	2285.00	1757.50	1424.00	

7.84
- .28
7.56

LOCATION: MORRIS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 45 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
08/01/82	88.00	62.00	0		396.00	.15	88.00	72.00	2320.00	1787.50	1448.00
08/02/82	91.00	61.00	0		504.00	.37	97.00	75.00	2341.00	1803.50	1459.00
08/03/82	95.00	66.00	0		502.00	.30	92.00	78.00	2381.50	1839.00	1485.00
08/04/82	89.00	62.00	0		321.00	.21	97.00	77.00	2417.00	1869.50	1509.00
08/05/82	91.00	65.00	0		483.00	.27	99.00	77.00	2455.00	1902.50	1534.50
08/06/82	90.00	64.00	0		429.00	.29	97.00	80.00	2492.00	1934.50	1559.50
08/07/82	88.00	62.00	.38		503.00	.35	99.00	80.00	2527.00	1964.50	1583.50
08/08/82	84.00	53.00	.27		457.00	.24	88.00	68.00	2555.50	1988.00	1602.00
08/09/82	72.00	50.00	0		404.00	.29	80.00	64.00	2576.50	2004.00	1613.00
08/10/82	68.00	42.00	0		489.00	.12	82.00	61.00	2591.50	2014.00	1622.00
08/11/82	71.00	43.00	0		516.00	.20	87.00	61.00	2608.50	2026.00	1632.50
08/12/82	76.00	50.00	0		535.00	.29	82.00	65.00	2631.50	2044.00	1645.50
08/13/82	72.00	54.00	0		249.00	.19	72.00	65.00	2654.50	2062.00	1658.50
08/14/82	81.00	59.00	0		356.00	.15	82.00	67.00	2684.50	2087.00	1678.50
08/15/82	82.00	60.00	0		261.00	.18	78.00	68.00	2715.50	2113.00	1699.50
08/16/82	85.00	57.00	0		356.00	.16	85.00	70.00	2746.50	2139.00	1720.50
08/17/82	87.00	60.00	1.93		449.00	0	88.00	70.00	2780.00	2167.50	1743.50
08/18/82	87.00	64.00	0		451.00	.27	85.00	69.00	2815.50	2198.00	1768.50
08/19/82	89.00	63.00	0		477.00	.25	82.00	71.00	2851.50	2229.00	1793.00
08/20/82	87.00	62.00	0		380.00	.28	84.00	68.00	2881.00	2253.50	1812.00
08/21/82	82.00	58.00	0		486.00	.31	84.00	65.00	2908.00	2275.50	1829.00
08/22/82	87.00	58.00	.26		426.00	.33	84.00	66.00	2940.50	2303.00	1851.00
08/23/82	76.00	55.00	0		414.00	.18	82.00	67.00	2966.50	2323.50	1866.50
08/24/82	74.00	55.00	.09		415.00	.17	84.00	67.00	2990.00	2343.00	1881.00
08/25/82	75.00	46.00	0		400.00	.23	79.00	64.00	3011.00	2358.00	1893.50
08/26/82	85.00	43.00	0		434.00	.26	81.00	63.00	3038.00	2380.00	1911.00
08/27/82	65.00	37.00	.34		200.00	.09	73.00	55.00	3048.50	2386.50	1918.00
08/28/82	47.00	41.00	0		470.00	.21	70.00	54.00	3061.50	2394.00	1925.50
08/29/82	69.00	44.00	.41		320.00	.16	68.00	57.00	3078.00	2405.00	1935.50
08/30/82	79.00	45.00	.02		287.00	.28	73.00	59.00	3100.00	2422.00	1949.00
08/31/82	72.00	50.00	0		401.00	.21	74.00	58.00	3121.00	2438.00	1960.50
09/01/82	83.00	52.00	1.79		340.00	.03	71.00	63.00	3148.50	2461.00	1978.00
09/02/82	80.00	50.00	0		398.00	.22	75.00	62.00	3173.50	2481.00	1993.00
09/03/82	71.00	44.00	0		442.00	.26	70.00	57.00	3191.00	2493.00	2003.50
09/04/82	77.00	47.00	0		474.00	.16	77.00	55.00	3213.00	2510.00	2017.00
09/05/82	84.00	52.00	.40		346.00	.30	77.00	61.00	3241.00	2533.00	2035.50
09/06/82	72.00	44.00	0		471.00	.18	74.00	60.00	3259.00	2546.00	2046.50
09/07/82	67.00	45.00	0		484.00	.20	71.00	57.00	3275.50	2557.00	2054.00
09/08/82	72.00	55.00	0		439.00	.20	74.00	58.00	3298.50	2576.00	2068.00
09/09/82	77.00	60.00	0		286.00	.16	73.00	62.00	3322.70	2599.50	2086.50
09/10/82	82.00	60.00	0		241.00	.19	76.00	65.00	3335.70	2623.50	2107.00
09/11/82	85.00	60.00	0		287.00	.19	78.00	62.00	3359.00	2652.00	2129.00
09/12/82	75.00	53.00	.55		253.00	.23	73.00	62.00	3414.00	2671.00	2143.50
09/13/82	61.00	45.00	.03		80.00	.06	64.00	57.00	3427.00	2679.50	2149.00
09/14/82	59.00	43.00	.02		134.00	.02	59.00	53.00	3438.50	2685.50	2153.50
09/15/82	57.00	44.00	.50		96.00	.07	56.00	52.00	3448.50	2691.00	2157.00
09/16/82	54.00	35.00	0		157.00	.07	57.00	49.00	3455.50	2691.00	2159.00
09/17/82	58.00	45.00	0		113.00	.08	55.00	49.00	3464.50	2697.00	2163.00
09/18/82	59.00	33.00	0		241.00	.09	57.00	48.00	3470.00	2698.00	2167.50
09/19/82	72.00	36.00	0		389.00	.14	57.00	44.00	3484.50	2707.00	2178.50
09/20/82	54.00	34.00	0		200.00	.12	55.00	48.00	3488.50	2707.00	2180.50
09/21/82	58.00	33.00	0		341.00	.14	61.00	47.00	3493.50	2707.00	2184.00
09/22/82	65.00	32.00	0		379.00	.12	67.00	45.00	3502.50	2711.00	2192.00
09/23/82	73.00	40.00	0		347.00	.23	65.00	48.00	3519.00	2723.00	2203.50
09/24/82	70.00	46.00	0		258.00	.18	65.00	52.00	3537.00	2736.00	2213.50
09/25/82	54.00	30.00	0		128.00	.06	57.00	47.00	3539.00	2736.00	2215.50
09/26/82	62.00	30.00	0		335.00	.13	62.00	45.00	3545.00	2737.00	2221.50
09/27/82	74.00	45.00	0		323.00	.20	67.00	51.00	3545.50	2737.00	2221.50
09/28/82	71.00	46.00	0		239.00	.23	64.00	55.00	3562.50	2750.00	2232.50
09/29/82	77.00	46.00	.37		256.00	.24	68.00	54.00	3588.50	2767.00	2245.50
09/30/82	61.00	35.00	0		161.00	.07	61.00	50.00	3593.00	2770.00	2251.00

LOCATION : MORRIS

						DEGREE DAYS						
		MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUMUL VALUE	BASE = 45 ACCUMUL VALUE	BASE = 50/86 ACCUMUL VALUE
10/01/82		55.00	35.00	0		237.00	.14	58.00	47.00	3598.50	2770.50	2222.50
10/02/82		55.00	40.00	1.05		479.00	.07	54.00	48.00	3606.00	2773.00	2222.50
10/03/82		54.00	34.00	0		155.00	.08	55.00	48.00	3610.00	2773.00	2222.50
10/04/82		68.00	36.00	0		322.00	.14	62.00	45.00	3622.00	2780.00	2222.50
10/05/82		66.00	38.00	0			.09	62.00	49.00	3634.00	2787.00	2222.50
10/06/82		62.00	39.00	.99			.32	57.00	47.00	3644.00	2792.50	2222.50
10/07/82		54.00	33.00	.23			.12	56.00	46.00	3648.00	2792.50	2222.50
10/08/82		46.00	34.00	.03			.06	49.00	43.00	3648.00	2792.50	2222.50
10/09/82		55.00	40.00	1.02			.36	50.00	45.00	3655.00	2795.00	2222.50
10/10/82		52.00	43.00	.26			.06	50.00	49.00	3663.00	2797.50	2222.50
10/11/82		50.00	40.00	.20			.08	50.00	47.00	3668.00	2797.50	2222.50
10/12/82		45.00	40.00	.15			.03	48.00	46.00	3670.00	2797.50	2222.50
10/13/82		44.00	39.00	.03			.03	48.00	45.00	3672.00	2797.50	2222.50
10/14/82		52.00	37.00	0			.04	51.00	44.00	3676.00	2797.50	2222.50
10/15/82		65.00	38.00	0			.06	51.00	41.00	3688.00	2804.00	2222.50
10/16/82		53.00	29.00	0			0	50.00	40.00	3689.00	2804.00	2222.50
10/17/82		57.00	30.00	0				50.00	37.00	3692.00	2804.00	2222.50
10/18/82		69.00	43.00	0				50.00	43.00	3708.00	2815.00	2222.50
10/19/82		50.00	36.00	0				46.00	43.00	3711.00	2815.00	2222.50
10/20/82		40.00	27.00	1.3				47.00	38.00	3711.00	2815.00	2222.50
10/21/82		40.00	21.00	0				41.00	36.00	3711.00	2815.00	2222.50
10/22/82		44.00	22.00	0				44.00	35.00	3711.00	2815.00	2222.50
10/23/82		56.00	28.00	0				47.00	35.00	3713.00	2815.00	2222.50
10/24/82		66.00	33.00	0				47.00	35.00	3721.00	2817.50	2222.50
10/25/82		62.00	38.00	0				54.00	40.00	3731.00	2823.00	2222.50
10/26/82		66.00	39.00	0				50.00	42.00	3742.00	2829.00	2222.50
10/27/82		44.00	48.00	0				50.00	43.00	3758.00	2840.00	2222.50
10/28/82		57.00	41.00	0				50.00	47.00	3767.00	2844.00	2222.50
10/29/82		55.00	35.00	.06				50.00	45.00	3771.00	2844.00	2222.50
10/30/82		59.00	25.00	.03				50.00	40.00	3773.00	2844.00	2222.50
10/31/82		52.00	25.00	0				48.00	37.00	3773.00	2844.00	2222.50

L O C A T I O N : R O S E M O U N T

										DEGREE DAYS		
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 45 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE	
04/01/82	51.00	26.00	0						0	0	0	
04/02/82	58.00	40.00	0						4.00	0	4.50	
04/03/82	56.00	16.00	.34						4.00	0	7.50	
04/04/82	32.00	11.00	0						4.00	0	7.50	
04/05/82	29.00	20.00	.17						4.00	0	7.50	
04/06/82	33.00	9.00	0						4.00	0	7.50	
04/07/82	34.00	18.00	0						4.00	0	7.50	
04/08/82	31.00	23.00	.12						4.00	0	7.50	
04/09/82	35.00	21.00	0						4.00	0	7.50	
04/10/82	38.00	32.00	0						4.00	0	7.50	
04/11/82	46.00	20.00	0						4.00	0	7.50	
04/12/82	55.00	33.00	0						4.00	0	7.50	
04/13/82	58.00	38.00	0						4.00	0	10.00	
04/14/82	62.00	34.00	0						7.00	0	14.00	
04/15/82	62.00	47.00	.05						10.00	0	20.00	
04/16/82	62.00	44.00	.91						19.50	4.50	26.00	
04/17/82	56.00	38.00	.32						27.50	7.50	32.00	
04/18/82	65.00	33.00	0						29.50	7.50	35.00	
04/19/82	60.00	36.00	.12						33.50	7.50	42.50	
04/20/82	44.00	25.00	.55						36.50	7.50	47.50	
04/21/82	55.00	27.00	0						36.50	7.50	50.00	
04/22/82	60.00	30.00	0						36.50	7.50	55.00	
04/23/82	72.00	44.00	0						49.50	15.50	66.00	
04/24/82	75.00	41.00	0						62.50	23.50	78.50	
04/25/82	70.00	49.00	0						77.00	33.00	88.50	
04/26/82	61.00	41.00	0						83.00	34.00	94.00	
04/27/82	63.00	30.00	0						84.50	34.00	100.50	
04/28/82	63.00	32.00	0			.19			87.00	34.00	107.00	
04/29/82	67.00	32.00	0			.27			91.50	34.00	115.50	
04/30/82	73.00	45.00	0			.49			102.50	40.00	124.00	
05/01/82	73.00	39.00	0			.08			113.50	46.00	135.50	
05/02/82	77.00	42.00	0		606.00	.24			128.00	55.50	149.00	
05/03/82	81.00	47.00	0		466.00	.36			147.00	69.50	164.50	
05/04/82	86.00	61.00	.78		387.00	.38			175.50	93.00	188.00	
05/05/82	62.00	47.00	.08		137.00	0			185.00	97.50	194.00	
05/06/82	50.00	42.00	.24		141.00	0			186.00	97.50	194.00	
05/07/82	57.00	37.00	0		627.00	0			188.00	97.50	197.50	
05/08/82	71.00	37.00	0		572.00	.24			197.00	101.50	208.00	
05/09/82	71.00	51.00	.55		420.00	.21			213.00	112.50	219.00	
05/10/82	81.00	59.00	0		517.00	.20			239.00	132.50	239.00	
05/11/82	71.00	54.00	0		491.00	.36			255.50	145.00	251.50	
05/12/82	62.00	52.00	1.26		71.00	.28			267.50	152.00	258.50	
05/13/82	70.00	62.00	.16		214.00	.28			288.50	168.00	274.50	
05/14/82	76.00	59.00	.04		340.00	.02			311.00	185.50	292.00	
05/15/82	74.00	57.00	.20		456.00	.24			331.50	201.00	307.50	
05/16/82	78.00	58.00	.08		534.00	.20			354.50	219.00	325.50	
05/17/82	71.00	58.00	.35		194.00	.15			374.00	233.50	340.00	
05/18/82	70.00	57.00	.04		471.00	.12			392.50	247.00	353.50	
05/19/82	75.00	53.00	0		622.00	.19			411.50	261.00	367.50	
05/20/82	64.00	48.00	0		597.00	.27			422.50	267.00	374.50	
05/21/82	65.00	46.00	.12		342.00	.28			433.00	272.50	382.00	
05/22/82	66.00	48.00	.16		264.00	.15			445.00	279.50	390.00	
05/23/82	70.00	40.00	0		549.00	.22			455.00	284.50	400.00	
05/24/82	70.00	47.00	0		425.00	.25			468.50	293.00	410.00	
05/25/82	68.00	48.00	0		302.00	.16			481.50	301.00	419.00	
05/26/82	63.00	54.00	.38		120.00	.10			495.00	309.50	427.50	
05/27/82	72.00	59.00	0		256.00	.02			515.50	325.00	443.00	
05/28/82	78.00	57.00	.04		523.00	.19			538.00	342.50	460.50	
05/29/82	80.00	58.00	.19		365.00	.20			562.00	361.50	479.50	
05/30/82	79.00	54.00	.36		563.00	.16			583.50	378.00	496.50	
05/31/82	65.00	45.00	0		576.00	.35			593.50	383.00	503.50	

LOCATION : ROSEMOUNT

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 45 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
06/01/82	71.00	44.00	0		6691.00	.20			606.00	390.50	514.00
06/02/82	64.00	38.00	0		623.00	.31			612.00	391.50	521.00
06/03/82	69.00	43.00	0		652.00	.30			623.00	397.50	530.50
06/04/82	71.00	41.00	0		254.00	.47			640.50	410.00	543.00
06/05/82	74.00	47.00	0		647.00	.20			656.00	420.50	555.00
06/06/82	69.00	57.00	.04		219.00	.15	65.00	61.00	674.00	433.50	568.00
06/07/82	71.00	54.00	0		666.00	.20	72.00	60.00	691.50	446.00	580.50
06/08/82	77.00	48.00	0		644.00	.30	76.00	59.00	709.00	458.50	594.00
06/09/82	66.00	50.00	0		229.00	.25	61.00	61.00	722.00	466.50	602.00
06/10/82	67.00	49.00	0		758.00	.17	71.00	63.00	735.00	474.50	610.50
06/11/82	78.00	46.00	0		596.00	.33	73.00	58.00	752.00	486.50	624.50
06/12/82	72.00	52.00	0		705.00	.19	74.00	61.00	769.00	498.50	636.50
06/13/82	81.00	51.00	0		702.00	.19	77.00	60.00	790.00	514.50	652.50
06/14/82	65.00	50.00	0		458.00	.19	67.00	63.00	805.50	525.00	663.00
06/15/82	71.00	46.00	0		632.00	.41	70.00	61.00	821.00	535.50	673.50
06/16/82	81.00	40.00	.16		443.00	.15	75.00	57.00	839.50	549.00	689.00
06/17/82	71.00	44.00	.19		379.00	.15	71.00	63.00	857.00	561.50	701.50
06/18/82	67.00	49.00	.12		431.00	.15	69.00	59.00	870.00	569.50	710.00
06/19/82	68.00	45.00	.12		403.00	.15	67.00	55.00	882.00	576.50	719.50
06/20/82	68.00	43.00	.04		268.00	.15	66.00	57.00	897.50	587.50	730.00
06/21/82	73.00	44.00	0		198.00	.22	72.00	55.00	913.00	597.50	741.50
06/22/82	75.00	44.00	0	74	550.00	.23	78.00	67.00	932.50	612.00	756.00
06/23/82	85.00	31.00	0	151.00	323.00	.23	82.00	62.00	956.50	631.00	775.00
06/24/82	77.00	31.00	.51	247.00	329.00	.28	74.00	66.00	980.50	650.00	794.00
06/25/82	72.00	33.00	0	198.00	580.00	.26	75.00	64.00	998.00	662.50	806.50
06/26/82	74.00	49.00	0	82.00	682.00	.26	80.00	58.00	1014.50	674.00	818.50
06/27/82	86.00	59.00	0	138.00	578.00	.26	90.00	66.00	1042.00	696.50	841.00
06/28/82	89.00	58.00	.04	100.00	407.00	.26	91.00	70.00	1070.50	720.00	863.00
06/29/82	74.00	41.00	.04	181.00	629.00	.20	85.00	63.00	1089.50	734.00	877.00
06/30/82	76.00	49.00	0	134.00	398.00	.30	88.00	64.00	1108.00	747.50	890.50
07/01/82	81.00	57.00	0	150.00	679.00	.36	89.00	70.00	1128.00	762.50	906.00
07/02/82	79.00	64.00	0	211.00	685.00	.36	96.00	71.00	1151.00	780.50	924.00
07/03/82	89.00	64.00	0	150.00	615.00	.36	94.00	77.00	1182.50	807.00	949.00
07/04/82	98.00	62.00	0	364.00	388.00	.36	85.00	71.00	1217.50	837.00	973.00
07/05/82	97.00	74.00	0	254.00	658.00	.02	84.00	68.00	1258.00	872.50	1003.00
07/06/82	83.00	64.00	.24	172.00	618.00	.32	89.00	66.00	1286.50	896.00	1026.50
07/07/82	77.00	54.00	0	254.00	658.00	.32	84.00	68.00	1307.00	911.50	1042.00
07/08/82	85.00	52.00	0	172.00	328.00	.31	83.00	73.00	1330.50	930.00	1060.50
07/09/82	83.00	57.00	0	180.00	135.00	.20	74.00	65.00	1359.50	954.00	1084.50
07/10/82	69.00	57.00	.16	221.00	647.00	.20	82.00	64.00	1377.50	967.00	1097.50
07/11/82	81.00	59.00	0	108.00	607.00	.20	88.00	68.00	1402.50	987.00	1117.50
07/12/82	86.00	59.00	0	77.00	549.00	.33	92.00	71.00	1430.00	1009.50	1140.00
07/13/82	87.00	62.00	0			.33			1458.00	1032.50	1162.50
07/14/82	90.00	62.00	0			.33			1489.00	1058.50	1186.50
07/15/82	85.00	67.00	.16			.43			1519.50	1084.00	1212.00
07/16/82	87.00	76.00	.41			.43			1551.50	1111.00	1238.50
07/17/82	89.00	60.00	0	122.00	660.00	.43	91.00	69.00	1589.00	1143.50	1269.50
07/18/82	84.00	62.00	0	149.00	610.00	.43	92.00	69.00	1616.00	1165.50	1291.50
07/19/82	84.00	62.00	0			.24			1641.50	1185.50	1311.50
07/20/82	89.00	64.00	0			.24			1671.00	1211.00	1335.50
07/21/82	89.00	66.00	.38			.24			1704.00	1238.50	1361.50
07/22/82	88.00	64.00	0			.32			1735.00	1264.50	1386.50
07/23/82	87.00	60.00	0			.31			1763.50	1288.00	1409.50
07/24/82	86.00	50.00	.02			.31			1794.00	1313.50	1435.00
07/25/82	84.00	68.00	.83	119.00	326.00	.31	85.00	74.00	1825.00	1339.50	1461.00
07/26/82	75.00	66.00	.20			.31			1850.50	1360.00	1481.50
07/27/82	85.00	41.00	0			.15			1878.50	1383.00	1504.50
07/28/82	85.00	33.00	0			.31			1905.50	1405.00	1526.50
07/29/82	85.00	33.00	0			.32			1934.50	1429.00	1550.50
07/30/82	83.00	33.00	0			.32			1960.50	1450.00	1571.50
07/31/82	89.00	39.00	0			.22			1989.50	1474.00	1594.00

LOCATION : ROSEMOUNT

		DEGREE DAYS										
		MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 45 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
10/01/82		60.00	48.00	.12						3262.50	2440.00	2598.50
10/02/82		60.00	52.00	.40						3273.50	2446.00	2604.50
10/03/82		65.00	45.00	0						3283.50	2451.00	2612.50
10/04/82		75.00	41.00	0						3296.50	2459.00	2624.50
10/05/82		75.00	41.00	0						3309.50	2467.00	2637.50
10/06/82		71.00	50.00	1.02						3325.50	2477.50	2649.50
10/07/82		54.00	39.00	.34						3326.50	2477.50	2653.50
10/08/82		58.00	35.00	.02						3328.00	2477.50	2657.50
10/09/82		58.00	48.00	.07						3336.00	2480.00	2661.00
10/10/82		57.00	47.00	.12						3343.00	2482.50	2661.00
10/11/82		49.00	44.00	.05						3344.50	2482.50	2661.00
10/12/82		51.00	42.00	.05						3346.00	2482.50	2662.50
10/13/82		52.00	46.00	.05						3350.00	2482.50	2672.50
10/14/82		69.00	41.00	0						3360.00	2487.50	2681.00
10/15/82		68.00	45.00	.11						3371.50	2494.00	2684.00
10/16/82		56.00	30.00	0						3371.50	2498.00	2692.50
10/17/82		67.00	41.00	0						3380.50	2498.00	2701.50
10/18/82		68.00	42.00	0						3390.50	2503.00	2709.50
10/19/82		66.00	43.00	.60						3400.00	2507.50	2709.50
10/20/82		44.00	32.00	1.35						3400.00	2507.50	2712.50
10/21/82		43.00	26.00	0						3400.00	2507.50	2718.50
10/22/82		56.00	26.00	0						3400.00	2507.50	2724.50
10/23/82		61.00	34.00	0						3402.50	2507.50	2732.50
10/24/82		62.00	35.00	0						3406.00	2507.50	2740.50
10/25/82		67.00	35.00	0						3412.50	2510.00	2745.50
10/26/82		66.00	37.00	.05						3418.50	2513.00	2747.50
10/27/82		60.00	46.00	.05						3426.50	2513.00	2751.50
10/28/82		53.00	46.00	0						3431.00	2513.00	2755.50
10/29/82		59.00	42.00	.13						3436.50	2513.00	2755.50
10/30/82		58.00	30.00	0						3436.50	2513.00	2755.50
10/31/82		50.00	30.00	.07						3436.50	2513.00	2755.50

LOCATION : S T . PAUL

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
04/01/82	49.00	26.00	0	147.00	428.00		36.00		0	0	0
04/02/82	56.00	40.00	0	237.00	130.00		37.00		8.00	0	3.00
04/03/82	55.00	16.00	.12	359.00	342.00		31.00		8.00	0	5.50
04/04/82	29.00	10.00	0	175.00	535.00		32.00		8.00	0	5.50
04/05/82	30.00	20.00	0	131.00	256.00		32.00		8.00	0	5.50
04/06/82	32.00	14.00	0	69.00	573.00		31.00		8.00	0	5.50
04/07/82	34.00	21.00	0	79.00	439.00		32.00		8.00	0	5.50
04/08/82	32.00	26.00	.07	50.00	202.00		31.00		8.00	0	5.50
04/09/82	36.00	20.00	.01	59.00	273.00		31.00		8.00	0	5.50
04/10/82	36.00	31.00	0	199.00	243.00		33.00		8.00	0	5.50
04/11/82	46.00	21.00	0	86.00	581.00		41.00		8.00	0	5.50
04/12/82	51.00	36.00	.06	190.00	122.00		38.00		11.50	0	6.00
04/13/82	55.00	36.00	0	135.00	525.00		47.00		17.00	0	8.50
04/14/82	61.00	38.00	0	109.00	414.00		46.00		26.50	0	14.00
04/15/82	65.00	48.00	.04	203.00	319.00		49.00		43.00	6.50	21.50
04/16/82	61.00	49.00	.27	112.00	219.00		51.00		58.00	11.50	27.00
04/17/82	54.00	36.00	.22	253.00	558.00		49.00		63.00	11.50	29.00
04/18/82	62.00	39.00	0	129.00	308.00		48.00		73.50	12.00	35.00
04/19/82	62.00	34.00	.04	164.00	255.00		47.00		81.50	12.00	41.00
04/20/82	44.00	24.00	.25	158.00	619.00		40.00		81.50	12.00	41.00
04/21/82	56.00	31.00	0	82.00	623.00		49.00		85.00	12.00	44.00
04/22/82	58.00	33.00	0	78.00	634.00	.17	52.00		90.50	12.00	48.00
04/23/82	74.00	45.00	0	167.00	639.00	.25	56.00		110.00	21.50	60.00
04/24/82	74.00	51.00	0	170.00	635.00	.40	62.00		132.50	34.00	72.50
04/25/82	73.00	55.00	.03	123.00	368.00	.38	61.00		156.50	48.00	86.50
04/26/82	65.00	41.00	.03	140.00	577.00	.20	60.00		169.50	51.00	94.00
04/27/82	62.00	33.00	0	28.00	648.00	.22	63.00		177.00	51.00	100.00
04/28/82	62.00	40.00	0	65.00	630.00	.21	61.00		188.00	52.00	106.00
04/29/82	66.00	38.00	0	106.00	649.00	.26	61.00		200.00	54.00	114.00
04/30/82	65.00	46.00	0	103.00	281.00	.41	57.00		215.50	59.50	121.50
05/01/82	62.00	45.00	.01	29.00	293.00	.07	66.00		229.00	63.00	127.50
05/02/82	72.00	49.00	0	40.00	613.00	.23	69.00		249.50	73.50	138.50
05/03/82	76.00	53.00	0	112.00	647.00	.35	69.00		274.00	88.00	153.00
05/04/82	78.00	57.00	0	173.00	442.00	.33	72.00		301.50	105.50	170.50
05/05/82	85.00	53.00	.37	171.00	399.00	.28	59.00		330.50	124.50	189.50
05/06/82	59.00	41.00	.18	94.00	168.00	.10	53.00		340.50	124.50	194.00
05/07/82	51.00	39.00	.16	66.00	197.00	.06	59.00		345.50	124.50	194.50
05/08/82	57.00	40.00	0	77.00	677.00	.25	67.00		354.50	124.50	198.00
05/09/82	69.00	49.00	.46	64.00	583.00	.22	62.00		373.00	133.50	207.50
05/10/82	71.00	49.00	.01	158.00	421.00	.21	69.00		393.00	143.50	218.00
05/11/82	82.00	53.00	.02	216.00	529.00	.35	70.00		420.50	161.00	235.50
05/12/82	70.00	51.00	0	91.00	553.00	.20	58.00		441.00	171.50	246.00
05/13/82	64.00	53.00	1.19	117.00	103.00	.02	64.00		459.50	180.00	254.50
05/14/82	70.00	62.00	.19	74.00	204.00	.02	69.00		485.50	196.00	270.50
05/15/82	76.00	57.00	.27	105.00	409.00	.26	68.00		512.00	212.50	287.00
05/16/82	74.00	58.00	.49	117.00	493.00	.36	72.00		538.00	228.50	300.00
05/17/82	78.00	58.00	.25	96.00	555.00	.24	67.00		566.00	246.50	324.00
05/18/82	69.00	60.00	.43	142.00	188.00	.06	67.00		590.50	261.00	335.50
05/19/82	68.00	53.00	0	88.00	466.00	.25	74.00		611.00	271.50	346.00
05/20/82	73.00	52.00	0	88.00	634.00	.26	72.00		633.50	284.00	358.50
05/21/82	62.00	45.00	0	170.00	650.00	.34	65.00		647.00	287.50	364.50
05/22/82	67.00	46.00	.02	136.00	336.00	.14	64.00		663.50	294.00	373.00
05/23/82	71.00	43.00	0	73.00	420.00	.20	70.00		680.50	301.00	383.50
05/24/82	70.00	50.00	0	62.00	633.00	.23	72.00		700.50	311.00	393.50
05/25/82	73.00	51.00	0	43.00	560.00	.22	72.00		722.50	323.00	405.50
05/26/82	71.00	55.00	0	45.00	423.00	.19	75.00		745.50	336.00	418.50
05/27/82	68.00	56.00	.30	87.00	204.00	.02	68.00		767.50	348.00	430.50
05/28/82	74.00	58.00	0	22.00	345.00	.09	75.00		793.50	364.00	446.50
05/29/82	80.00	61.00	0	11.00	551.00	.21	75.00		824.00	384.50	467.00
05/30/82	79.00	55.00	.06	9.00	386.00	.15	77.00		851.00	401.50	484.00
05/31/82	77.00	54.00	.19	85.00	584.00	.34	70.00		876.50	417.00	499.50

LOCATION : S T . P A U L

DEGREE DAYS

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUMUL VALUE	BASE = 50 ACCUMUL VALUE	BASE = 50/86 ACCUMUL VALUE
06/01/82	64.00	47.00	0.00	142.00	607.00	.33	72.00	72.00	892.00	422.50	506.50
06/02/82	70.00	42.00	0.00	112.00	740.00	.35	73.00	73.00	908.00	428.50	516.50
06/03/82	63.00	41.00	0.00	49.00	702.00	.32	70.00	70.00	920.00	430.50	523.00
06/04/82	68.00	48.00	0.00	16.00	523.00	.17	71.00	71.00	938.00	438.50	532.00
06/05/82	72.00	52.00	0.00	29.00	568.00	.23	73.00	73.00	960.00	450.50	544.00
06/06/82	74.00	55.00	0.00	145.00	641.00	.39	67.00	67.00	986.50	467.00	560.50
06/07/82	70.00	56.00	0.00	197.00	330.00	.22	70.00	70.00	1009.50	480.00	573.50
06/08/82	70.00	55.00	0.00	98.00	516.00	.21	75.00	75.00	1030.00	490.50	584.00
06/09/82	77.00	58.00	0.00	35.00	619.00	.24	69.00	69.00	1057.50	508.00	601.50
06/10/82	69.00	45.00	0.00	140.00	229.00	.17	73.00	73.00	1076.50	517.00	611.00
06/11/82	71.00	46.00	0.00	78.00	758.00	.31	72.00	72.00	1095.00	525.50	621.50
06/12/82	77.00	54.00	0.00	57.00	689.00	.29	79.00	79.00	1120.50	541.00	637.00
06/13/82	79.00	53.00	0.00	70.00	760.00	.32	79.00	79.00	1141.50	552.00	648.00
06/14/82	79.00	60.00	0.00	65.00	698.00	.33	69.00	69.00	1171.00	571.50	667.50
06/15/82	69.00	56.00	0.21	36.00	4215.00	.03	74.00	74.00	1193.50	584.00	680.00
06/16/82	70.00	47.00	0.00	74.00	539.00	.26	76.00	76.00	1212.00	592.50	690.00
06/17/82	73.00	45.00	0.00	61.00	581.00	.24	77.00	77.00	1239.00	609.50	707.00
06/18/82	69.00	49.00	0.00	66.00	529.00	.26	71.00	71.00	1258.00	618.50	716.50
06/19/82	66.00	46.00	0.00	75.00	447.00	.15	71.00	71.00	1274.00	624.50	724.50
06/20/82	68.00	46.00	0.22	17.00	400.00	.16	67.00	67.00	1295.50	636.00	736.00
06/21/82	69.00	50.00	0.23	60.00	440.00	.16	73.00	73.00	1315.00	645.50	745.50
06/22/82	71.00	48.00	0.00	62.00	692.00	.28	75.00	75.00	1334.50	655.00	756.00
06/23/82	72.00	50.00	0.00	62.00	521.00	.17	79.00	79.00	1358.50	669.00	770.00
06/24/82	84.00	53.00	0.46	78.00	589.00	.34	73.00	73.00	1390.00	690.50	791.50
06/25/82	75.00	44.00	0.24	88.00	258.00	.14	76.00	76.00	1414.50	705.00	806.00
06/26/82	72.00	50.00	0.00	35.00	761.00	.26	80.00	80.00	1435.00	715.50	817.00
06/27/82	72.00	50.00	0.00	35.00	677.00	.27	85.00	85.00	1462.50	733.00	834.50
06/28/82	84.00	50.00	0.00	35.00	650.00	.26	90.00	90.00	1496.00	756.50	858.00
06/29/82	87.00	50.00	0.28	72.00	577.00	.09	79.00	79.00	1527.00	777.50	878.50
06/30/82	73.00	52.00	0.00	45.00	599.00	.23	81.00	81.00	1549.50	790.00	891.00
07/01/82	74.00	52.00	0.00	45.00	687.00	.26	84.00	84.00	1572.50	803.00	904.00
07/02/82	80.00	51.00	0.00	53.00	709.00	.36	82.00	82.00	1603.00	823.50	924.50
07/03/82	80.00	51.00	0.00	49.00	479.00	.22	87.00	87.00	1636.00	846.50	947.50
07/04/82	89.00	57.00	0.00	56.00	732.00	.40	92.00	92.00	1674.00	874.50	974.00
07/05/82	96.00	74.00	0.00	78.00	559.00	.46	96.00	96.00	1719.00	909.50	1004.00
07/06/82	96.00	67.00	0.29	65.00	575.00	.49	86.00	86.00	1760.50	941.00	1030.50
07/07/82	85.00	63.00	0.00	70.00	471.00	.26	84.00	84.00	1794.50	965.00	1054.50
07/08/82	76.00	55.00	0.00	76.00	657.00	.34	82.00	82.00	1820.00	980.50	1070.00
07/09/82	85.00	67.00	0.01	63.00	548.00	.26	86.00	86.00	1856.00	1006.50	1096.00
07/10/82	85.00	60.00	0.00	63.00	482.00	.15	72.00	72.00	1888.50	1029.00	1118.50
07/11/82	65.00	57.00	0.63	72.00	128.00	.25	81.00	81.00	1909.50	1040.00	1129.50
07/12/82	81.00	62.00	0.00	51.00	672.00	.29	87.00	87.00	1941.00	1061.50	1151.00
07/13/82	84.00	65.00	0.00	12.00	665.00	.27	84.00	84.00	1975.50	1086.00	1175.50
07/14/82	84.00	64.00	0.00	1.00	385.00	.14	98.00	98.00	2009.50	1110.00	1199.50
07/15/82	89.00	69.00	0.87	28.00	535.00	.29	77.00	77.00	2048.50	1139.00	1227.00
07/16/82	79.00	69.00	0.06	59.00	273.00	.11	82.00	82.00	2082.50	1163.00	1251.00
07/17/82	85.00	70.00	0.00	20.00	496.00	.33	83.00	83.00	2120.00	1190.50	1278.50
07/18/82	81.00	65.00	0.00	139.00	576.00	.24	83.00	83.00	2153.00	1213.50	1301.50
07/19/82	83.00	61.00	0.00	44.00	709.00	.40	80.00	80.00	2185.00	1235.50	1323.50
07/20/82	85.00	67.00	0.00	61.00	645.00	.31	90.00	90.00	2221.00	1261.50	1349.50
07/21/82	88.00	70.00	0.00	85.00	607.00	.30	83.00	83.00	2260.00	1290.50	1377.50
07/22/82	84.00	67.00	0.00	28.00	309.00	.14	86.00	86.00	2295.50	1316.00	1403.00
07/23/82	86.00	63.00	0.00	22.00	548.00	.26	88.00	88.00	2330.00	1340.50	1427.50
07/24/82	87.00	70.00	0.00	67.00	638.00	.36	84.00	84.00	2368.50	1369.00	1455.50
07/25/82	87.00	73.00	0.02	90.00	391.00	.18	81.00	81.00	2408.50	1399.00	1485.00
07/26/82	84.00	64.00	0.64	44.00	275.00	.15	76.00	76.00	2442.50	1423.00	1509.00
07/27/82	75.00	62.00	0.03	33.00	632.00	.12	84.00	84.00	2471.00	1441.50	1527.50
07/28/82	82.00	61.00	0.00	49.00	668.00	.24	88.00	88.00	2502.50	1463.00	1549.00
07/29/82	84.00	67.00	0.00	36.00	546.00	.30	87.00	87.00	2538.00	1488.50	1574.50
07/30/82	81.00	60.00	0.00	120.00	549.00	.36	84.00	84.00	2568.50	1509.00	1595.00
07/31/82	81.00	62.00	0.00	67.00	511.00	.26	85.00	85.00	2600.00	1530.50	1616.50

LOCATION : S T . P A U L

		DEGREE DAYS									
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
08/01/82	87.00	67.00	0	51.00	492.00	.26	88.00		2637.00	1557.50	1643.50
08/02/82	88.00	57.00	0	62.00	524.00	.26	86.00		2669.50	1580.00	1664.50
08/03/82	94.00	66.00	0	146.00	577.00	.36	92.00		2709.50	1610.00	1690.50
08/04/82	95.00	74.00	0	58.00	454.00	.30	93.00		2754.00	1644.50	1720.50
08/05/82	93.00	71.00	0	21.00	544.00	.26	92.00		2796.00	1676.00	1749.00
08/06/82	90.00	68.00	0	34.00	505.00	.28	89.00		2835.00	1705.50	1776.00
08/07/82	89.00	66.00	0	11.00	492.00	.22	89.00		2872.00	1733.00	1802.00
08/08/82	88.00	62.00	0	84.00	521.00	.38	84.00		2907.00	1758.00	1826.00
08/09/82	76.00	55.00	0	181.00	538.00	.42	76.00		2933.00	1773.00	1841.00
08/10/82	69.00	49.00	0	67.00	367.00	.18	79.00		2952.00	1782.00	1851.00
08/11/82	73.00	48.00	0	34.00	502.00	.23	82.00		2972.00	1793.00	1862.50
08/12/82	78.00	53.00	0	18.00	649.00	.30	80.00		2998.00	1808.00	1878.00
08/13/82	80.00	60.00	.07	96.00	498.00	.22	73.00		3028.00	1828.00	1898.00
08/14/82	71.00	61.00	.01	5.00	227.00	.02	80.00		3054.00	1844.50	1914.00
08/15/82	82.00	65.00	0	36.00	399.00	.13	82.00		3087.00	1868.00	1937.50
08/16/82	83.00	65.00	0	16.00	327.00	.14	82.00		3121.00	1892.00	1961.00
08/17/82	89.00	63.00	.72	14.00	444.00	.41	82.00		3157.00	1918.00	1986.00
08/18/82	85.00	66.00	0	9.00	505.00	.19	85.00		3193.00	1943.50	2011.50
08/19/82	86.00	71.00	0	79.00	496.00	.22	88.00		3231.00	1972.00	2040.00
08/20/82	89.00	61.00	0	60.00	489.00	.25	85.00		3266.00	1997.00	2063.50
08/21/82	82.00	56.00	0	66.00	604.00	.33	86.00		3295.00	2016.00	2082.50
08/22/82	85.00	65.00	.05	104.00	558.00	.32	88.00		3330.00	2041.00	2107.50
08/23/82	79.00	61.00	0	61.00	453.00	.24	83.00		3360.00	2061.00	2127.50
08/24/82	77.00	60.00	.55	39.00	462.00	.19	75.00		3389.00	2079.00	2146.00
08/25/82	74.00	52.00	.49	38.00	309.00	.13	78.00		3412.00	2092.00	2159.00
08/26/82	81.00	57.00	0	11.00	570.00	.31	76.00		3441.00	2111.00	2178.00
08/27/82	77.00	45.00	.40	82.00	357.00	.24	74.00		3462.00	2122.00	2191.00
08/28/82	65.00	49.00	0	52.00	581.00	.20	76.00		3479.00	2129.00	2199.00
08/29/82	68.00	52.00	.80	145.00	463.00	.20	69.00		3499.00	2139.00	2209.00
08/30/82	69.00	55.00	.47	34.00	132.00	.20	74.00		3521.00	2151.00	2221.00
08/31/82	72.00	59.00	0	84.00	560.00	.27	72.00		3546.00	2167.00	2236.50
09/01/82	72.00	61.00	.41	80.00	203.00	.07	77.00		3573.00	2183.00	2253.00
09/02/82	78.00	56.00	0	103.00	475.00	.27	74.00		3600.00	2200.00	2270.00
09/03/82	69.00	52.00	0	131.00	473.00	.27	75.00		3620.00	2211.00	2280.50
09/04/82	72.00	52.00	0	57.00	548.00	.22	77.00		3642.00	2223.00	2292.50
09/05/82	80.00	58.00	0	114.00	513.00	.23	72.00		3671.00	2242.00	2311.50
09/06/82	70.00	47.00	.23	102.00	220.00	.18	71.00		3690.00	2250.00	2321.50
09/07/82	67.00	49.00	0	80.00	539.00	.20	65.00		3708.00	2258.00	2330.00
09/08/82	64.00	55.00	0	63.00	131.00	.04	67.00		3727.00	2268.00	2339.50
09/09/82	74.00	62.00	0	85.00	182.00	.06	74.00		3755.00	2286.00	2357.50
09/10/82	80.00	66.00	.68	110.00	331.00	.22	73.00		3788.00	2309.00	2380.00
09/11/82	80.00	67.00	0	56.00	338.00	.11	78.00		3822.00	2332.00	2404.00
09/12/82	84.00	68.00	.08	55.00	355.00	.18	73.00		3858.00	2358.00	2430.00
09/13/82	75.00	54.00	.08	116.00	172.00	.12	65.00		3882.00	2373.00	2444.50
09/14/82	58.00	52.00	.02	95.00	100.00	.08	60.00		3897.00	2378.00	2449.50
09/15/82	56.00	45.00	.38	120.00	68.00	0	59.00		3908.00	2378.00	2452.50
09/16/82	53.00	45.00	.01	58.00	213.00	.08	60.00		3917.00	2378.00	2454.00
09/17/82	58.00	49.00	.02	63.00	204.00	.05	64.00		3930.00	2382.00	2458.00
09/18/82	66.00	43.00	.16	50.00	315.00	.13	65.00		3945.00	2386.00	2466.00
09/19/82	66.00	46.00	0	33.00	472.00	.15	63.00		3961.00	2392.00	2474.00
09/20/82	59.00	41.00	0	128.00	353.00	.17	61.00		3971.00	2392.00	2478.50
09/21/82	57.00	37.00	0	52.00	367.00	.12	64.00		3978.00	2392.00	2482.00
09/22/82	63.00	40.00	0	9.00	466.00	.10	65.00		3989.00	2394.00	2488.50
09/23/82	68.00	44.00	0	94.00	441.00	.19	68.00		4005.00	2400.00	2497.50
09/24/82	73.00	54.00	.03	133.00	367.00	.17	59.00		4029.00	2413.00	2511.00
09/25/82	56.00	41.00	0	58.00	92.00	.06	65.00		4037.00	2413.00	2514.00
09/26/82	62.00	41.00	0	33.00	441.00	.11	64.00		4049.00	2415.00	2520.00
09/27/82	66.00	44.00	0	112.00	443.00	.17	65.00		4064.00	2420.00	2528.00
09/28/82	66.00	48.00	0	149.00	409.00	.16	67.00		4081.00	2427.00	2536.00
09/29/82	72.00	56.00	.01	193.00	251.00	.11	66.00		4105.00	2441.00	2550.00
09/30/82	73.00	49.00	.18	120.00	201.00	.19	65.00		4126.00	2452.00	2561.50

LOCATION : S T . PAUL

	DEGREE DAYS										
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
10/01/82	62.00	47.00	.01	61.00	287.00	.17	60.00	60.00	4140.50	2456.50	2567.50
10/02/82	58.00	47.00	.38	104.00	114.00	.02	59.00	59.00	4153.00	2459.00	2571.50
10/03/82	58.00	46.00	.20	86.00	86.00	.04	63.00	63.00	4165.00	2461.00	2575.50
10/04/82	65.00	47.00	0	36.00	404.00	.10	64.00	64.00	4181.00	2467.00	2583.00
10/05/82	75.00	51.00	0	73.00	362.00	.14	65.00	65.00	4204.00	2480.00	2596.00
10/06/82	73.00	50.00	.52	93.00	290.00	.12	65.00	65.00	4225.50	2491.50	2607.50
10/07/82	69.00	40.00	.23	169.00	107.00	.17	53.00	53.00	4240.00	2496.00	2617.00
10/08/82	50.00	39.00	.13	62.00	107.00	.02	55.00	55.00	4244.50	2496.00	2617.00
10/09/82	59.00	42.00	.05	185.00	217.00	.05	54.00	54.00	4255.00	2496.50	2621.50
10/10/82	56.00	47.00	.10	100.00	47.00	.02	57.00	57.00	4266.50	2498.00	2624.50
10/11/82	55.00	45.00	.08	70.00	135.00	.03	53.00	53.00	4276.50	2498.00	2627.00
10/12/82	50.00	43.00	.09	90.00	83.00		52.00	52.00	4283.00	2498.00	2627.00
10/13/82	51.00	43.00	.04	98.00	107.00		52.00	52.00	4290.00	2498.00	2627.50
10/14/82	67.00	42.00	0	119.00	318.00		57.00	57.00	4304.50	2502.50	2636.00
10/15/82	68.00	46.00	.05	142.00	356.00		56.00	56.00	4321.50	2509.50	2645.00
10/16/82	53.00	32.00	0	88.00	296.00		53.00	53.00	4324.00	2509.50	2646.50
10/17/82	65.00	43.00	.01	112.00	342.00		55.00	55.00	4338.00	2513.50	2654.00
10/18/82	68.00	45.00	0	72.00	255.00		58.00	58.00	4354.50	2520.00	2663.00
10/19/82	66.00	42.00	.48	110.00	46.00		52.00	52.00	4368.50	2524.00	2671.00
10/20/82	43.00	31.00	1.10	228.00	173.00		44.00	44.00	4368.50	2524.00	2671.00
10/21/82	43.00	28.00	0	50.00	266.00		46.00	46.00	4368.50	2524.00	2671.00
10/22/82	55.00	28.00	0	51.00	304.00		47.00	47.00	4370.00	2524.00	2673.50
10/23/82	60.00	36.00	0	98.00	307.00		50.00	50.00	4378.00	2524.00	2678.50
10/24/82	62.00	40.00	0	116.00	281.00		52.00	52.00	4389.00	2525.00	2684.50
10/25/82	66.00	41.00	0	54.00	266.00		53.00	53.00	4402.50	2528.50	2692.50
10/26/82	64.00	43.00	0	83.00	248.00		55.00	55.00	4416.50	2532.00	2699.50
10/27/82	60.00	47.00	.04	169.00	90.00		49.00	49.00	4429.50	2535.50	2704.50
10/28/82	53.00	48.00	0	124.00	57.00		50.00	50.00	4440.00	2536.00	2706.00
10/29/82	59.00	43.00	.08	140.00	246.00		51.00	51.00	4451.00	2537.00	2710.50
10/30/82	57.00	33.00	0	94.00	213.00		48.00	48.00	4456.00	2537.00	2714.00
10/31/82	51.00	33.00	0	15.00	126.00		46.00	46.00	4458.00	2537.00	2714.50

LOCATION : STAPLES

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCUM VALUE	BASE = 50 ACCUM VALUE	BASE = 50/86 ACCUM VALUE
04/01/82	36.00	21.00	0	209.00			35.00	35.00	0	0	0
04/02/82	38.00	33.00	0	326.00			35.00	35.00	0	0	0
04/03/82	41.00	10.00	1.70	288.00			35.00	35.00	0	0	0
04/04/82	16.00	6.00	0	147.00			35.00	35.00	0	0	0
04/05/82	30.00	12.00	0	56.00			35.00	35.00	0	0	0
04/06/82	25.00	4.00	0	78.00			35.00	35.00	0	0	0
04/07/82	34.00	9.00	0	39.00			34.00	34.00	0	0	0
04/08/82	35.00	16.00	0.1	49.00			35.00	35.00	0	0	0
04/09/82	34.00	20.00	0	36.00			36.00	36.00	0	0	0
04/10/82	38.00	24.00	0	244.00			37.00	37.00	0	0	0
04/11/82	32.00	13.00	0	212.00			40.00	40.00	0	0	0
04/12/82	43.00	34.00	0.31	112.00			39.00	39.00	0	0	0
04/13/82	41.00	36.00	0	76.00		0.02	39.00	39.00	0	0	0
04/14/82	56.00	33.00	0	70.00		0.09	37.00	37.00	0	0	0
04/15/82	61.00	44.00	0.18	153.00		0.09	37.00	37.00	4.50	0	3.0
04/16/82	68.00	42.00	0.11	100.00		0.09	36.00	36.00	17.00	2.0	8.0
04/17/82	53.00	30.00	0	170.00		0.27	34.00	34.00	32.00	7.0	17.0
04/18/82	54.00	30.00	0	155.00		0.21	33.00	33.00	33.00	7.0	19.0
04/19/82	51.00	18.00	0	78.00		0.06	33.00	33.00	35.00	7.0	21.0
04/20/82	52.00	33.00	0	111.00		0.14	32.00	32.00	38.00	7.0	21.0
04/21/82	46.00	23.00	0	126.00		0.27	32.00	32.00	42.00	7.0	22.0
04/22/82	55.00	26.00	0.02	151.00		0.09	32.00	32.00	42.00	7.0	22.0
04/23/82	62.00	45.00	0	163.00		0.19	32.00	32.00	42.00	7.0	25.0
04/24/82	78.00	47.00	0	197.00		0.53	32.00	32.00	51.00	7.0	31.0
04/25/82	76.00	48.00	0	169.00		0.39	32.00	32.00	74.00	20.0	45.0
04/26/82	69.00	29.00	0	136.00		0.31	32.00	32.00	96.00	32.00	58.0
04/27/82	57.00	26.00	0	64.00		0.22	32.00	32.00	102.00	32.00	64.0
04/28/82	64.00	29.00	0	44.00		0.21	32.00	32.00	103.00	32.00	68.0
04/29/82	64.00	27.00	0	77.00		0.15	32.00	32.00	110.00	32.00	75.0
04/30/82	65.00	40.00	0.09	174.00	555.00	0.48	32.00	32.00	115.00	32.00	82.0
05/01/82	66.00	36.00	0	75.00	590.00	0.25	32.00	32.00	128.00	34.00	89.0
05/02/82	74.00	42.00	0	81.00	610.00	0.33	32.00	32.00	139.00	35.00	97.0
05/03/82	73.00	53.00	0	150.00	400.00	0.43	32.00	32.00	157.00	43.00	109.0
05/04/82	78.00	59.00	0.02	203.00	290.00	0.25	32.00	32.00	180.00	56.00	122.0
05/05/82	81.00	43.00	0.24	134.00	240.00	0.27	32.00	32.00	208.00	75.00	141.0
05/06/82	56.00	35.00	0.01	47.00	370.00	0.12	32.00	32.00	230.00	87.00	156.0
05/07/82	54.00	26.00	0	130.00	650.00	0.30	32.00	32.00	236.00	87.00	159.0
05/08/82	56.00	26.00	0	97.00	490.00	0.12	32.00	32.00	241.00	87.00	166.0
05/09/82	69.00	43.00	0	90.00	200.00	0.23	32.00	32.00	242.00	87.00	169.0
05/10/82	59.00	47.00	0.39	137.00	300.00	0.11	32.00	32.00	258.00	93.00	179.0
05/11/82	75.00	41.00	0.01	139.00	280.00	0.15	32.00	32.00	271.00	96.00	183.0
05/12/82	58.00	46.00	0.01	86.00	120.00	0.06	32.00	32.00	271.00	104.00	196.0
05/13/82	54.00	45.00	0.61	95.00	220.00	0.14	32.00	32.00	289.00	106.00	200.0
05/14/82	66.00	47.00	0.33	43.00	400.00	0.06	32.00	32.00	301.00	106.00	200.0
05/15/82	73.00	54.00	0.13	126.00	480.00	0.13	32.00	32.00	310.00	106.00	202.0
05/16/82	72.00	52.00	0.31	129.00	340.00	0.25	32.00	32.00	327.00	112.00	210.0
05/17/82	74.00	50.00	0.83	139.00	340.00	0.41	32.00	32.00	350.00	126.00	223.0
05/18/82	68.00	53.00	1.11	117.00	200.00	0.17	32.00	32.00	372.00	138.00	235.0
05/19/82	64.00	52.00	0.01	125.00	240.00	0.11	32.00	32.00	394.00	150.00	247.0
05/20/82	67.00	44.00	0	109.00	410.00	0.20	32.00	32.00	415.00	160.00	258.0
05/21/82	63.00	37.00	0	146.00	650.00	0.32	32.00	32.00	433.00	168.00	266.0
05/22/82	67.00	38.00	0	95.00	565.00	0.26	32.00	32.00	448.00	174.00	274.0
05/23/82	72.00	40.00	0	60.00	675.00	0.30	32.00	32.00	458.00	174.00	281.0
05/24/82	74.00	45.00	0	60.00	660.00	0.20	32.00	32.00	471.00	176.00	289.0
05/25/82	67.00	46.00	0	61.00	300.00	0.12	32.00	32.00	487.00	182.00	300.0
05/26/82	70.00	51.00	0	55.00	500.00	0.17	32.00	32.00	506.00	192.00	312.0
05/27/82	71.00	53.00	0	70.00	400.00	0.17	32.00	32.00	523.00	198.00	321.0
05/28/82	78.00	52.00	0	61.00	640.00	0.30	32.00	32.00	543.00	209.00	331.0
05/29/82	78.00	59.00	0.61	43.00	460.00	0.30	32.00	32.00	565.00	221.00	343.0
05/30/82	72.00	41.00	0	106.00	480.00	0.22	32.00	32.00	590.00	236.00	358.0
05/31/82	69.00	47.00	0.01	89.00	420.00	0.15	32.00	32.00	619.00	254.00	377.0
									635.00	261.00	388.0
									653.00	269.00	397.0

LOCATION : STAPLES

		DEGREE DAYS									
					BASE = 40		BASE = 50		BASE = 50/86		
DATE	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	ACCUM VALUE	ACCUM VALUE	ACCUM VALUE
06/01/82	61.00	37.00	0	118.00	560.00	.16	66.00	53.00	662.50	269.00	403.00
06/02/82	60.00	37.00	0	116.00	700.00	.24	85.00	53.00	671.00	269.00	408.00
06/03/82	65.00	38.00	0	49.00	700.00	.22	87.00	54.00	682.50	270.50	415.50
06/04/82	68.00	40.00	0	48.00	580.00	.21	84.00	58.00	696.00	274.50	424.50
06/05/82	72.00	50.00	0	102.00	480.00	.29	83.00	58.00	717.50	285.50	435.50
06/06/82	71.00	53.00	.17	177.00	660.00	.38	83.00	58.00	739.50	297.50	447.50
06/07/82	62.00	51.00	.17	171.00	120.00	.08	66.00	60.00	756.00	304.00	454.50
06/08/82	65.00	37.00	0	106.00	180.00	.12	63.00	54.00	764.00	304.00	458.50
06/09/82	64.00	47.00	0	61.00	420.00	.15	74.00	55.00	779.50	309.50	465.50
06/10/82	63.00	42.00	.03	150.00	200.00	.09	66.00	54.00	792.00	312.00	472.00
06/11/82	69.00	41.00	0	111.00	700.00	.30	81.00	55.00	807.00	317.00	481.50
06/12/82	74.00	40.00	0	99.00	620.00	.30	85.00	59.00	824.00	324.00	493.50
06/13/82	70.00	50.00	0	143.00	700.00	.41	87.00	60.00	844.00	334.00	503.50
06/14/82	81.00	50.00	0	79.00	660.00	.32	90.00	65.00	866.00	349.50	519.00
06/15/82	77.00	49.00	.24	95.00	520.00	.25	89.00	61.00	892.50	362.50	532.50
06/16/82	70.00	40.00	0	81.00	700.00	.32	90.00	59.00	907.50	367.50	542.50
06/17/82	76.00	51.00	.03	92.00	320.00	.18	90.00	59.00	931.00	381.00	556.00
06/18/82	67.00	43.00	0	68.00	580.00	.26	94.00	63.00	946.00	386.00	564.50
06/19/82	65.00	43.00	0	37.00	400.00	.04	72.00	61.00	960.00	390.00	572.00
06/20/82	70.00	50.00	.34	144.00	280.00	.36	72.00	61.00	980.00	400.00	582.00
06/21/82	70.00	52.00	.02	89.00	440.00	.20	77.00	57.00	1001.00	411.00	593.00
06/22/82	69.00	47.00	.02	67.00	580.00	.21	81.00	57.00	1019.00	419.00	602.50
06/23/82	75.00	54.00	0	45.00	760.00	.22	95.00	57.00	1043.50	433.50	617.00
06/24/82	82.00	59.00	1.63	126.00	560.00	.51	100.00	84.00	1074.00	454.00	637.50
06/25/82	69.00	47.00	0	118.00	160.00	.21	75.00	59.00	1092.00	462.00	647.00
06/26/82	71.00	47.00	0	43.00	720.00	.25	87.00	59.00	1111.00	471.00	657.50
06/27/82	74.00	56.00	0	52.00	640.00	.21	88.00	61.00	1136.00	486.00	672.50
06/28/82	83.00	55.00	0	68.00	660.00	.36	94.00	66.00	1165.00	505.00	691.50
06/29/82	73.00	50.00	1.00	90.00	260.00	.28	82.00	62.00	1186.50	516.50	703.00
06/30/82	71.00	49.00	0	45.00	560.00	.21	80.00	60.00	1206.50	526.50	713.50
07/01/82	74.00	49.00	0	36.00	720.00	.25	87.00	60.00	1228.00	538.00	725.50
07/02/82	77.00	62.00	0	88.00	700.00	.32	95.00	64.00	1257.50	557.50	745.00
07/03/82	78.00	62.00	.02	90.00	480.00	.16	90.00	71.00	1289.00	579.00	766.50
07/04/82	86.00	61.00	0	84.00	760.00	.36	95.00	72.00	1322.50	602.50	790.00
07/05/82	91.00	51.00	0	115.00	220.00	.28	101.00	77.00	1353.50	623.50	808.50
07/06/82	93.00	65.00	.72	163.00	300.00	.50	98.00	75.00	1392.50	652.50	834.00
07/07/82	82.00	60.00	.68	97.00	420.00	.29	87.00	67.00	1423.50	673.50	855.00
07/08/82	69.00	54.00	.02	124.00	380.00	.25	91.00	66.00	1445.00	685.00	866.50
07/09/82	80.00	66.00	.40	62.00	500.00	.17	84.00	62.00	1478.00	708.00	889.50
07/10/82	81.00	40.00	.04	61.00	320.00	.17	88.00	71.00	1498.50	718.50	905.00
07/11/82	64.00	54.00	0	49.00	140.00	.06	65.00	65.00	1517.50	727.50	914.00
07/12/82	80.00	61.00	0	66.00	660.00	.26	70.00	63.00	1546.50	746.50	933.00
07/13/82	84.00	58.00	0	41.00	400.00	.27	74.00	70.00	1579.00	769.00	955.50
07/14/82	71.00	62.00	.17	33.00	220.00	.05	70.00	70.00	1605.50	785.50	972.00
07/15/82	83.00	69.00	0	51.00	640.00	.24	74.00	69.00	1641.50	811.50	998.00
07/16/82	76.00	68.00	.15	81.00	200.00	.06	74.00	69.00	1673.50	833.50	1020.00
07/17/82	82.00	58.00	0	141.00	240.00	.16	73.00	70.00	1706.50	856.50	1043.00
07/18/82	75.00	58.00	0	108.00	600.00	.34	90.00	70.00	1733.00	873.00	1059.50
07/19/82	77.00	59.00	0	60.00	700.00	.12	96.00	70.00	1761.00	891.00	1077.50
07/20/82	74.00	60.00	.11	72.00	420.00	.24	85.00	69.00	1788.00	908.00	1094.50
07/21/82	91.00	51.00	0	56.00	591.00	.17	100.00	69.00	1824.00	934.00	1118.00
07/22/82	87.00	59.00	0	46.00	533.00	.40	102.00	73.00	1857.00	957.00	1140.50
07/23/82	83.00	59.00	0	58.00	571.00	.27	103.00	73.00	1889.50	979.50	1163.00
07/24/82	85.00	59.00	.03	137.00	405.00	.30	97.00	74.00	1918.00	998.00	1181.50
07/25/82	84.00	55.00	.10	105.00	389.00	.28	90.00	72.00	1949.00	1019.00	1202.50
07/26/82	77.00	55.00	.02	34.00	200.00	.18	85.00	72.00	1980.00	1040.00	1223.50
07/27/82	81.00	55.00	0	24.00	740.00	.05	94.00	69.00	2009.50	1059.50	1243.00
07/28/82	84.00	55.00	.02	38.00	620.00	.25	102.00	69.00	2040.50	1080.50	1264.00
07/29/82	82.00	55.00	.07	46.00	480.00	.28	102.00	70.00	2074.00	1104.00	1287.50
07/30/82	74.00	60.00	.01	132.00	460.00	.27	85.00	69.00	2101.00	1121.00	1304.50
07/31/82	79.00	61.00	0	79.00	540.00	.26	93.00	69.00	2131.00	1141.00	1324.50

LOCATION : STAPLES

		DEGREE DAYS									
	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 40 ACCUMUL VALUE	BASE = 50 ACCUMUL VALUE	BASE = 50/86 ACCUMUL VALUE
08/01/82	86.00	65.00	0	69.00	430.00	.21	93.00	71.00	2166.50	1166.50	1350.00
08/02/82	90.00	60.00	0	109.00	570.00	.29	104.00	74.00	2201.50	1191.50	1373.00
08/03/82	98.00	61.00	0	132.00	730.00	.23	102.00	73.00	2241.00	1221.00	1396.00
08/04/82	90.00	62.00	0	58.00	700.00	.44	105.00	75.00	2277.00	1247.00	1420.00
08/05/82	93.00	67.00	0	44.00	580.00	.18	107.00	75.00	2317.00	1277.00	1447.00
08/06/82	98.00	68.00	0	47.00	260.00	.25	103.00	75.00	2360.00	1310.00	1474.00
08/07/82	89.00	49.00	.22	48.00	560.00	.24	100.00	73.00	2389.00	1329.00	1492.00
08/08/82	83.00	60.00	.04	108.00	457.00	.30	88.00	67.00	2420.50	1350.50	1511.50
08/09/82	71.00	53.00	.06	177.00	404.00	.22	85.00	61.00	2442.50	1362.50	1522.50
08/10/82	68.00	52.00	0	73.00	420.00	.18	90.00	60.00	2462.50	1372.50	1533.50
08/11/82	71.00	48.00	0	41.00	540.00	.22	94.00	63.00	2482.00	1382.00	1544.00
08/12/82	74.00	54.00	0	63.00	620.00	.26	100.00	62.00	2506.00	1396.00	1556.00
08/13/82	75.00	63.00	0	149.00	450.00	.55	87.00	64.00	2535.00	1415.00	1570.00
08/14/82	81.00	65.00	0	29.00	370.00	.14	94.00	71.00	2568.00	1438.00	1585.00
08/15/82	78.00	66.00	0	97.00	300.00	.13	86.00	71.00	2600.00	1460.00	1600.00
08/16/82	86.00	73.00	0	40.00	380.00	.16	95.00	73.00	2639.00	1489.00	1625.00
08/17/82	87.00	67.00	1.06	39.00	160.00	.29	89.00	70.00	2676.00	1516.00	1650.00
08/18/82	89.00	70.00	0	29.00	540.00	.05	90.00	70.00	2716.00	1546.00	1680.00
08/19/82	88.00	72.00	0	105.00	460.00	.14	89.00	75.00	2756.00	1576.00	1705.00
08/20/82	84.00	58.00	0	45.00	410.00	.23	91.00	69.00	2787.00	1597.00	1730.00
08/21/82	79.00	60.00	0	53.00	570.00	.29	94.00	67.00	2816.00	1616.00	1750.00
08/22/82	84.00	60.00	0	108.00	360.00	.22	88.00	70.00	2847.00	1638.00	1770.00
08/23/82	76.00	62.00	.30	82.00	530.00	.20	86.00	67.00	2877.00	1657.00	1790.00
08/24/82	75.00	59.00	0	36.00	470.00	.20	90.00	67.00	2904.00	1674.00	1811.00
08/25/82	74.00	53.00	0	80.00	500.00	.25	86.00	69.00	2939.00	1688.00	1830.00
08/26/82	77.00	56.00	.35	106.00	360.00	.23	84.00	69.00	2974.00	1704.00	1845.00
08/27/82	60.00	35.00	.08	36.00	140.00	.07	70.00	60.00	2996.00	1704.00	1865.00
08/28/82	64.00	42.00	.02	57.00	580.00	.19	70.00	61.00	3022.00	1704.00	1870.00
08/29/82	65.00	53.00	0	109.00	420.00	.20	80.00	60.00	3047.00	1707.00	1877.00
08/30/82	77.00	46.00	0	53.00	300.00	.21	80.00	60.00	3079.00	1716.00	1885.00
08/31/82	66.00	53.00	.07	64.00	260.00	.14	80.00	60.00	3101.00	1728.00	1900.00
09/01/82	73.00	53.00	.14	39.00	210.00	.08	79.00	60.00	3133.00	1737.00	1905.00
09/02/82	75.00	54.00	0	115.00	360.00	.19	80.00	60.00	3164.00	1750.00	1920.00
09/03/82	68.00	42.00	0	105.00	220.00	.21	80.00	60.00	3193.00	1765.00	1937.00
09/04/82	74.00	46.00	0	55.00	220.00	.18	85.00	60.00	3209.00	1770.00	1946.00
09/05/82	81.00	53.00	.74	110.00	340.00	.18	85.00	60.00	3211.00	1780.00	1955.00
09/06/82	69.00	41.00	0	6.00	500.00	.17	84.00	60.00	3214.00	1797.00	1975.00
09/07/82	67.00	44.00	0	74.00	500.00	.21	79.00	60.00	3215.00	1802.00	1984.00
09/08/82	63.00	53.00	0	124.00	340.00	.10	79.00	60.00	3217.00	1807.00	1993.00
09/09/82	75.00	59.00	0	152.00	300.00	.10	75.00	60.00	3219.00	1815.00	2001.00
09/10/82	79.00	59.00	0	117.00	340.00	.04	79.00	60.00	3221.00	1833.00	2019.00
09/11/82	81.00	55.00	0	78.00	200.00	.26	87.00	60.00	3250.00	1852.00	2038.00
09/12/82	75.00	55.00	0	99.00	80.00	.05	79.00	60.00	3281.00	1874.00	2059.00
09/13/82	66.00	44.00	.26	99.00	95.00	.09	67.00	60.00	3305.00	1887.00	2073.00
09/14/82	66.00	44.00	0	99.00	110.00	.13	64.00	60.00	3321.00	1894.00	2081.00
09/15/82	66.00	44.00	0	84.00	185.00	.09	63.00	60.00	3331.00	1894.00	2084.00
09/16/82	66.00	44.00	0	28.00	110.00	.08	63.00	60.00	3347.00	1894.00	2087.00
09/17/82	66.00	44.00	.04	100.00	290.00	.10	64.00	60.00	3356.00	1894.00	2089.00
09/18/82	66.00	44.00	0	79.00	440.00	.11	65.00	60.00	3363.00	1894.00	2097.00
09/19/82	66.00	44.00	0	102.00	180.00	.17	68.00	60.00	3379.00	1899.00	2106.00
09/20/82	66.00	44.00	0	114.00	300.00	.08	64.00	60.00	3383.00	1899.00	2109.00
09/21/82	66.00	44.00	0	49.00	420.00	.10	64.00	60.00	3387.00	1899.00	2112.00
09/22/82	66.00	44.00	0	26.00	390.00	.10	74.00	60.00	3403.00	1906.00	2121.00
09/23/82	66.00	44.00	0	134.00	150.00	.18	70.00	60.00	3422.00	1915.00	2130.00
09/24/82	66.00	44.00	0	153.00	100.00	.07	62.00	60.00	3437.00	1920.00	2136.00
09/25/82	66.00	44.00	0	73.00	420.00	.08	61.00	60.00	3440.00	1920.00	2138.00
09/26/82	66.00	41.00	0	100.00	360.00	.12	71.00	60.00	3451.00	1920.00	2143.00
09/27/82	66.00	41.00	0	169.00	180.00	.04	73.00	60.00	3465.00	1925.00	2152.00
09/28/82	66.00	41.00	0	158.00	120.00	.10	66.00	60.00	3480.00	1930.00	2159.00
09/29/82	66.00	46.00	.40	130.00	180.00	.10	66.00	60.00	3498.00	1937.00	2168.00
09/30/82	66.00	34.00	0	45.00	330.00	.07	66.00	60.00	3508.00	1938.00	2177.00

LOCATION : STAPLES

	MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	DEGREE DAYS		
									BASE = 40 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
10/01/82	60.00	37.00	0	81.00	90.00	.16	65.00	51.00	3517.00	1938.00	2182.00
10/02/82	51.00	40.00	1.24	101.00	150.00	.06	55.00	53.00	3522.50	1938.00	2182.50
10/03/82	54.00	38.00	.01	96.00	340.00	.06	59.00	53.00	3528.50	1938.00	2184.50
10/04/82	65.00	43.00	0	81.00	150.00	.12	69.00	52.00	3542.50	1942.00	2192.00
10/05/82	66.00	52.00	.06	70.00	30.00	.04	58.00	50.00	3561.50	1951.00	2201.00
10/06/82	60.00	33.00	.58	102.00	200.00	.12	63.00	50.00	3568.00	1951.00	2206.00
10/07/82	57.00	34.00	.52	146.00	130.00	.12	59.00	51.00	3573.50	1951.00	2209.50
10/08/82	48.00	38.00	0	97.00	70.00	.07	54.00	50.00	3576.50	1951.00	2209.50
10/09/82	58.00	42.00	.72	151.00	260.00	.18	62.00	52.00	3586.50	1951.00	2213.50
10/10/82	50.00	40.00	.57	113.00	220.00	.09	54.00	52.00	3591.50	1951.00	2213.50
10/11/82	55.00	42.00	.11	72.00	100.00	.03	59.00	53.00	3600.00	1951.00	2216.00
10/12/82	49.00	43.00	.08	102.00	100.00	.03	55.00	54.00	3606.00	1951.00	2216.00
10/13/82	48.00	41.00	.02	107.00	80.00	.13	53.00	52.00	3610.50	1951.00	2216.00
10/14/82	46.00	39.00	0	92.00	270.00	.01	52.00	50.00	3613.00	1951.00	2216.00
10/15/82	67.00	40.00	.05	119.00	320.00	.05	62.00	49.00	3626.50	1954.50	2224.50
10/16/82	52.00	26.00	0	145.00	150.00	.08	58.00	45.00	3626.50	1954.50	2225.50
10/17/82	50.00	38.00	.06	87.00	280.00	.03	54.00	45.00	3630.50	1954.50	2225.50
10/18/82	64.00	41.00	0	62.00	140.00	.08	63.00	48.00	3643.00	1957.00	2232.50
10/19/82	63.00	37.00	0	0	60.00	0	0	0	3653.00	1957.00	2239.00
10/20/82	40.00	29.00	0	0	140.00	0	0	0	3653.00	1957.00	2239.00
10/21/82	38.00	19.00	0	0	290.00	0	0	0	3653.00	1957.00	2239.00
10/22/82	47.00	24.00	0	0	270.00	0	0	0	3653.00	1957.00	2239.00
10/23/82	54.00	25.00	0	0	230.00	0	0	0	3653.00	1957.00	2241.00
10/24/82	57.00	29.00	0	0	240.00	0	0	0	3656.00	1957.00	2244.50
10/25/82	59.00	29.00	0	0	200.00	0	0	0	3660.00	1957.00	2249.00
10/26/82	64.00	33.00	0	0	200.00	.09	60.00	43.00	3668.50	1957.00	2256.00
10/27/82	65.00	45.00	0	156.00	110.00	0	60.00	51.00	3683.50	1962.00	2263.50
10/28/82	56.00	40.00	0	134.00	140.00	.08	55.00	50.00	3691.50	1962.00	2266.50
10/29/82	53.00	39.00	.02	167.00	210.00	.09	55.00	49.00	3697.50	1962.00	2268.00
10/30/82	57.00	24.00	0	169.00	180.00	0	56.00	42.00	3698.00	1962.00	2271.50
10/31/82	51.00	25.00	0	57.00	120.00	0	56.00	42.00	3698.00	1962.00	2272.00

L O C A T I O N : W A S E C A

		D E G R E E D A Y S										
		MAXTEMP	MINTEMP	PRECIP	WIND	SOLAR	PAN	SOILMAX	SOILMIN	BASE = 45 ACCULM VALUE	BASE = 50 ACCULM VALUE	BASE = 50/86 ACCULM VALUE
04/00/82		52.00	22.00	0.00	157.00	405.00		45.00	36.00	0.00	0.00	1.00
04/01/82		52.00	22.00	0.00	157.00	244.00		43.00	35.00	0.00	0.00	3.00
04/02/82		54.00	22.00	0.00	357.00	45.00		45.00	40.00	0.00	0.00	10.50
04/03/82		54.00	22.00	0.00	420.00	43.00		43.00	35.00	0.00	0.00	10.50
04/04/82		54.00	22.00	0.00	179.00	43.00		42.00	34.00	0.00	0.00	10.50
04/05/82		54.00	22.00	0.00	39.00	60.00		43.00	32.00	0.00	0.00	10.50
04/06/82		54.00	22.00	0.00	34.00	33.00		33.00	32.00	0.00	0.00	10.50
04/07/82		54.00	22.00	0.00	34.00	33.00		33.00	32.00	0.00	0.00	10.50
04/08/82		54.00	22.00	0.00	34.00	33.00		33.00	32.00	0.00	0.00	10.50
04/09/82		54.00	22.00	0.00	34.00	33.00		33.00	32.00	0.00	0.00	10.50
04/10/82		54.00	22.00	0.00	34.00	33.00		33.00	32.00	0.00	0.00	10.50
04/11/82		54.00	22.00	0.00	233.00	278.00		33.00	32.00	0.00	0.00	10.50
04/12/82		54.00	22.00	0.00	120.00	566.00		33.00	32.00	0.00	0.00	10.50
04/13/82		54.00	22.00	0.00	179.00	155.00		33.00	32.00	0.00	0.00	10.50
04/14/82		54.00	22.00	0.00	179.00	220.00		34.00	32.00	0.00	0.00	11.50
04/15/82		57.00	22.00	0.00	239.00	30.00		50.00	34.00	0.00	0.00	14.00
04/16/82		57.00	22.00	0.00	196.00	17.00		47.00	41.00	1.00	0.00	17.50
04/17/82		57.00	22.00	0.00	207.00	52.00		52.00	45.00	5.50	6.00	24.50
04/18/82		57.00	22.00	0.00	537.00	43.00		53.00	43.00	20.50	6.00	30.50
04/19/82		57.00	22.00	0.00	444.00	40.00		49.00	40.00	20.50	6.00	32.00
04/20/82		57.00	22.00	0.00	248.00	87.00		50.00	41.00	24.50	6.00	38.00
04/21/82		57.00	22.00	0.00	155.00	00.00		43.00	38.00	24.50	6.00	38.00
04/22/82		57.00	22.00	0.00	98.00	16.00		45.00	38.00	24.50	6.00	38.00
04/23/82		57.00	22.00	0.00	44.00	13.00		49.00	38.00	24.50	6.00	39.00
04/24/82		57.00	22.00	0.00	332.00	20.00		53.00	39.00	27.00	6.00	43.50
04/25/82		57.00	22.00	0.00	60.00	6.00		58.00	42.00	40.50	14.50	55.00
04/26/82		57.00	22.00	0.00	44.00	1.00		63.00	47.00	57.50	26.50	67.00
04/27/82		57.00	22.00	0.00	155.00	5.00		64.00	52.00	70.00	34.00	77.00
04/28/82		57.00	22.00	0.00	92.00	5.00	.22	62.00	48.00	70.50	34.00	81.00
04/29/82		57.00	22.00	0.00	1.00	40.00	.25	68.00	48.00	74.00	34.00	87.00
04/30/82		57.00	22.00	0.00	2.00	45.00	.31	60.00	50.00	78.00	34.00	91.50
05/01/82		57.00	22.00	0.00	64.00	10.00	.39	63.00	50.00	86.50	37.50	99.50
05/02/82		57.00	22.00	0.00	72.00	18.00	.44	59.00	50.00	91.50	37.50	105.50
05/03/82		57.00	22.00	0.00	44.00	10.00	.43	71.00	49.00	103.50	44.50	116.50
05/04/82		57.00	22.00	0.00	83.00	30.00	.38	73.00	54.00	121.00	57.00	129.50
05/05/82		57.00	22.00	0.00	228.00	30.00	.43	72.00	57.00	145.00	76.00	148.50
05/06/82		57.00	22.00	0.00	26.00	0.00	.00	72.00	59.00	169.50	95.50	167.50
05/07/82		57.00	22.00	0.00	128.00	0.00	.22	59.00	51.00	174.50	95.50	171.50
05/08/82		57.00	22.00	0.00	127.00	0.00	.05	59.00	47.00	174.50	95.50	172.00
05/09/82		57.00	22.00	0.00	95.00	0.00	.18	59.00	46.00	178.00	95.50	176.00
05/10/82		57.00	22.00	0.00	69.00	0.00	.33	66.00	48.00	192.50	105.00	185.50
05/11/82		57.00	22.00	0.00	84.00	0.00	.22	62.00	57.00	212.00	119.50	200.00
05/12/82		57.00	22.00	0.00	72.00	0.00	.51	62.00	58.00	235.00	137.50	218.00
05/13/82		57.00	22.00	0.00	63.00	0.00	.32	74.00	61.00	252.50	150.00	230.50
05/14/82		57.00	22.00	0.00	70.00	0.00	.04	61.00	60.00	265.50	158.00	238.50
05/15/82		57.00	22.00	0.00	72.00	0.00	.08	64.00	60.00	285.50	173.00	253.50
05/16/82		57.00	22.00	0.00	71.00	0.00	.33	65.00	59.00	304.50	186.50	267.00
05/17/82		57.00	22.00	0.00	76.00	0.00	.22	64.00	58.00	321.50	199.00	279.50
05/18/82		57.00	22.00	0.00	72.00	0.00	.55	70.00	58.00	343.00	215.50	296.00
05/19/82		57.00	22.00	0.00	72.00	0.00	.17	66.00	60.00	362.00	229.50	310.00
05/20/82		57.00	22.00	0.00	74.00	0.00	.15	68.00	60.00	379.00	241.50	322.00
05/21/82		57.00	22.00	0.00	64.00	0.00	.23	72.00	60.00	397.50	255.00	335.50
05/22/82		57.00	22.00	0.00	58.00	0.00	.21	72.00	57.00	408.00	260.50	342.50
05/23/82		57.00	22.00	0.00	47.00	0.00	.18	56.00	55.00	415.50	263.00	346.50
05/24/82		57.00	22.00	0.00	49.00	0.00	.18	59.00	53.00	421.50	264.00	350.00
05/25/82		57.00	22.00	0.00	65.00	0.00	.18	63.00	53.00	434.00	271.50	358.00
05/26/82		57.00	22.00	0.00	60.00	0.00	.11	63.00	56.00	446.50	279.00	365.50
05/27/82		57.00	22.00	0.00	60.00	0.00	.10	62.00	56.00	460.50	288.00	374.50
05/28/82		57.00	22.00	0.00	67.00	0.00	.07	68.00	57.00	473.00	295.50	382.00
05/29/82		57.00	22.00	0.00	76.00	0.00	.05	54.00	57.00	487.50	305.00	391.50
05/30/82		57.00	22.00	0.00	76.00	0.00	.16	71.00	58.00	507.50	320.00	406.50
05/31/82		57.00	22.00	0.00	77.00	0.00	.48	72.00	62.00	528.00	335.50	422.50
								75.00	61.00	548.50	351.00	437.50