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Gilt Edge Mine NPL Site Lawrence County, South Dakota: Final Report for the Climatic Evaluation (Deadwood and Lead, South Dakota)

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Final Report

Gilt Edge Mine NPL Site
Lawrence County, South Dakota
Final Report for the Climatic Evaluation - Deadwood and Lead, South Dakota
(Tables and Figures)


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EXECUTIVE SUMMARY

This document serves as the final report for the climatic evaluation for the Ruby Gulch waste rock dump cap at the Gilt Edge Mine Site, Lawrence County, South Dakota (SD). This project was a collaborative effort between CDM Federal Programs Corporation and South Dakota State University (SDSU) under the U.S. Environmental Protection Agency (EPA) Region VIII response action contract. This report includes climatic analyses, raw weather data, and conclusions.

In 1998 the Gilt Edge Mine near Deadwood, SD was abandoned and the reclamation of the mining site was halted. In 2000 SD requested that the EPA place the Gilt Edge Mine Site on the Superfund National Priorities List. SDSU through the South Dakota Agricultural Experiment Station (SDAES) was asked to assist the State of South Dakota and the EPA in the development of a remediation and revegetation plan for the abandoned Gilt Edge Mine Site.

The objectives of this report are:

1. Detail and summarize the climatic information for the Gilt Edge Mine site area.
2. Analyze the data for application for soil and vegetation purposes
3. Archive the raw weather data from Deadwood and Lead, SD.

This report highlights the available climatic data for two weather stations near the Gilt Edge Mine Superfund Site (GEMSS). The weather stations studied were Deadwood and Lead, SD. The weather station data for Deadwood covered the years 1943 through 1999 and the weather station data for Lead covered the years 1909 through 1999. The weather data summarized in this report include daily temperature (maximum, minimum, and average), monthly temperature (maximum, minimum, and average), numbers of days at critical warm and cold temperatures, precipitation (daily, daily maximums, 7-day maximums, monthly, monthly maximums, snowfall, and number of days per year at critical precipitation levels), growing degree days (40 ^{O}F basis), growing season length (28 ^{O}F basis). Deadwood, SD climatic data is summarized in Table A. Lead, SD climatic data is summarized in Table B.

Table A. Summary of climatic data (1943-1999) for Deadwood, SD.

Property	Min. Value	Max. Value	Average Value	Significant Trend (1943-1999) or Comment
Monthly maximum temp (^{O}F)	21.3	88.8	56.5	Curvilinear, lows during 1960s+1970s
Monthly minimum temp (^{O}F)	-1.9	58.6	31.1	Linear, increasing 1 ^{O}F/25 yrs
Monthly average temp (^{O}F)	10.1	73.1	43.9	Curvilinear, lows during 1960s+1970s
Number of days <40 ^{O}F	211	277	243	Linear, decreasing 1 day/3 yrs
Number of days <35 ^{O}F	191	243	212	Linear, decreasing 1 day/5 yrs
Number of days <30 ^{O}F	157	200	175	Curvilinear, lows during 1970s
Number of days <25 ^{O}F	100	159	132	Curvilinear, lows during 1980s
Number of days <20 ^{O}F	69	125	94	Linear, decreasing 1 day/4 yrs
Number of days <10 ^{O}F	15	72	44	Linear, decreasing 1 day/5 yrs
Number of days <0 ^{O}F	3	36	19	No significant trend
Number of days <-10 ^{O}F	0	19	6	No significant trend
Number of days <-20 ^{O}F	0	10	1	No significant trend
Number of days >65 ^{O}F	116	163	140	Curvilinear, lows during 1970s
Number of days >70 ^{O}F	73	136	110	No significant trend
Number of days >75 ^{O}F	41	112	81	No significant trend
Number of days >80 ^{O}F	19	79	51	Curvilinear, lows during 1980s
Number of days >85 ^{O}F	6	49	26	Curvilinear, lows during 1980s
Number of days >90 ^{O}F	0	28	9	Curvilinear, lows during 1980s

Table A. Summary of climatic data (1943-1999) for Deadwood, SD (continued).

Property	Min. Value	Max. Value	Average Value	Significant Trend (1943-1999) or Comment
Daily maximum temp (^{O}F)	-29	103	56.5	---
Daily minimum temp (^{O}F)	-30	77	31.1	---
Daily average temp (^{O}F)	-29	89	43.9	---
Jan monthly precipitation (in)	0.14	4.76	1.31	No significant trend
Feb monthly precipitation (in)	0.09	4.93	1.34	No significant trend
Mar monthly precipitation (in)	0.03	6.22	2.18	No significant trend
Apr monthly precipitation (in)	0.22	6.91	3.27	No significant trend
May monthly precipitation (in)	0.93	18.61	4.72	No significant trend
Jun monthly precipitation (in)	0.64	12.83	4.38	No significant trend
Jul monthly precipitation (in)	0.45	9.76	2.58	No significant trend
Aug monthly precipitation (in)	0.03	4.71	1.83	No significant trend
Sep monthly precipitation (in)	0.04	5.79	1.89	No significant trend
Oct monthly precipitation (in)	0.12	10.78	1.97	Curvilinear, lows during 1960s
Nov monthly precipitation (in)	0.07	5.44	1.53	No significant trend
Dec monthly precipitation (in)	0.20	3.17	1.37	Linear, increasing 1 in / 80 yrs
Yearly precipitation (in)	18.03	48.42	28.12	No significant trend
1-day max precip (in)	0.84	8.00	2.48	No significant trend
7-day max precip (in) – Jan	0.11	3.49	0.84	No significant trend
7-day max precip (in) – Feb	0.05	2.83	0.94	No significant trend
7-day max precip (in) – Mar	0.02	4.68	1.37	No significant trend
7-day max precip (in) – Apr	0.21	6.95	2.22	No significant trend
7-day max precip (in) – May	0.67	12.92	2.94	No significant trend
7-day max precip (in) – Jun	0.29	10.48	2.82	No significant trend
7-day max precip (in) – Jul	0.38	6.35	1.64	No significant trend
7-day max precip (in) – Aug	0.03	3.24	1.13	No significant trend
7-day max precip (in) – Sep	0.00	5.00	1.36	No significant trend
7-day max precip (in) – Oct	0.30	8.57	1.46	No significant trend
7-day max precip (in) – Nov	0.26	4.20	1.16	No significant trend
7-day max precip (in) - Dec	0.00	2.38	0.83	No significant trend
Yearly monthly max precip (in)	1.95	12.90	4.53	No significant trend
Number of days/yr >1 in precip	---	---	5.06	---
Number of days/yr >2 in precip	---	---	1.15	---
Number of days/yr >3 in precip	---	---	0.32	(1 day every 3 years)
Number of days/yr >4 in precip	---	---	0.16	(1 day every 6 years)
Number of days/yr >5 in precip	---	---	0.02	(1 day every 50 years)
Growing Degree Days (40^{O}F)	---	---	3520	---
Average snowfall (in/yr)	---	---	110	---
Spring freeze date (≤28 ^{O}F)	---	---	May 21	(20% chance of a later date)
Fall freeze date (≤28 ^{O}F)	---	---	Sep 18	(20% chance of an earlier date)
Growing season (>28^{O}F)(days)	---	---	128	(20 % chance of being shorter)

Table B. Summary of climatic data (1909-1999) for Lead, SD.

Property	Min. Value	Max. Value	Average Value	Significant Trend (1909-1999) or Comment
Monthly maximum temp (^{O}F)	16.9	91.0	54.9	No significant trend
Monthly minimum temp (^{O}F)	-4.2	63.3	33.5	No significant trend
Monthly average temp (^{O}F)	6.4	77.2	44.2	No significant trend
Number of days <40 ^{O}F	193	253	226	No significant trend
Number of days <35 ^{O}F	165	222	193	No significant trend
Number of days <30 ^{O}F	127	184	154	No significant trend
Number of days <25 ^{O}F	86	148	115	No significant trend
Number of days <20 ^{O}F	51	108	83	Linear, decreasing, 1 day/10 yrs
Number of days <10 ^{O}F	13	61	38	Linear, decreasing, 1 day/10 yrs
Number of days <0 ^{O}F	3	39	17	Linear, decreasing, 1 day/12 yrs
Number of days <-10 ^{O}F	0	22	7	Curvilinear, lows during 1970s-1980s
Number of days <-20 ^{O}F	0	7	2	Linear, decreasing 1 day/45 yrs
Number of days >65 ^{O}F	105	156	132	No significant trend
Number of days >70 ^{O}F	53	130	97	No significant trend
Number of days >75 ^{O}F	26	110	71	Curvilinear, highs during 1950s
Number of days >80 ^{O}F	7	82	43	Curvilinear, highs during 1950s
Number of days >85 ^{O}F	0	53	18	Curvilinear, highs during 1940s to 1950s
Number of days >90 ^{O}F	0	28	4	Curvilinear, highs during 1940s to 1950s
Daily maximum temp (^{O}F)	-22	101	54.9	---
Daily minimum temp (^{O}F)	-40	77	33.5	---
Daily average temp (^{O}F)	-26	86.5	44.2	---
Jan monthly precipitation (in)	0	4.78	1.20	No significant trend
Feb monthly precipitation (in)	0.17	4.31	1.20	Linear, increasing 1 in/90 yrs
Mar monthly precipitation (in)	0.18	7.59	2.04	Curvilinear, lows during 1920s
Apr monthly precipitation (in)	0.59	7.82	3.32	Linear, increasing 1 in/75 yrs
May monthly precipitation (in)	0.47	15.31	4.09	No significant trend
Jun monthly precipitation (in)	0.81	12.19	4.02	No significant trend
Jul monthly precipitation (in)	0.43	8.78	2.61	No significant trend
Aug monthly precipitation (in)	0.22	7.77	2.03	No significant trend
Sep monthly precipitation (in)	0.04	5.38	1.79	No significant trend
Oct monthly precipitation (in)	0.00	9.30	1.89	Curvilinear, lows during 1940s+1950s
Nov monthly precipitation (in)	0.03	6.30	1.45	Linear, increasing 1 in/90 yrs
Dec monthly precipitation (in)	0.12	3.90	1.26	Curvilinear, lows during 1920s
Yearly precipitation (in)	12.84	42.78	26.90	Linear, increasing 1 in/10 yrs
1-day max precip (in)	0.76	5.73	2.29	No significant trend
7-day max precip (in) – Jan	0.00	2.71	0.77	No significant trend
7-day max precip (in) – Feb	0.17	4.14	0.82	Linear, increasing 1 in/135 yrs
7-day max precip (in) – Mar	0.25	5.91	1.31	Linear, increasing 1 in/115 years
7-day max precip (in) – Apr	0.43	6.43	2.23	No significant trend
7-day max precip (in) – May	0.36	10.12	2.59	No significant trend
7-day max precip (in) – Jun	0.63	10.27	2.58	No significant trend
7-day max precip (in) – Jul	0.21	5.19	1.63	No significant trend
7-day max precip (in) – Aug	0.20	6.62	1.43	No significant trend
7-day max precip (in) – Sep	0.08	4.76	1.28	No significant trend
7-day max precip (in) – Oct	0.11	7.07	1.41	Curvilinear, lows during 1940s
7-day max precip (in) – Nov	0.04	3.77	0.99	Linear, increasing 1 in/160 yrs
7-day max precip (in) - Dec	0.11	2.66	0.80	Curvilinear, lows during 1930s+1940s
Yearly monthly max precip (in)	1.82	10.27	4.09	Linear, increasing 1 in/65 yrs
Number of days/yr >1 in precip	---	---	4.01	---

Table B. Summary of climatic data (1909-1999) for Lead, SD (continued).

Property	Min. Value	Max. Value	Average Value	Significant Trend (1909-1999) or Comment
Number of days/yr >2 in precip	---	---	0.85	(Almost 1 day/yr)
Number of days/yr >3 in precip	---	---	0.25	(1 day every 4 years)
Number of days/yr >4 in precip	---	---	0.13	(1 day every 8 years)
Number of days/yr >5 in precip	---	---	0.07	(1 day every 14 years)
Growing Degree Days (40^{O}F)	---	---	3680	---
Average snowfall (in/yr)	---	---	125	---
Spring freeze date (≤28 ^{O}F)	---	---	May 18	(20% chance of a later date)
Fall freeze date (≤28 ^{O}F)	---	---	Sep 19	(20% chance of an earlier date)
Growing season (>28 ^{O}F) (days)	---	---	130	(20% chance of being shorter)

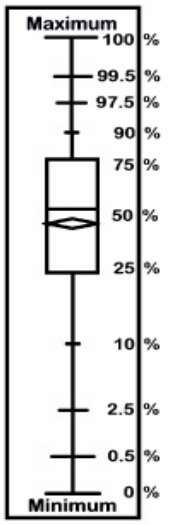
The daily climatic data gathered and the results obtained in this study were similar to those published elsewhere (NWCC, 2001; Meland, 1979, and Spuhler, 1971). The data analyzed in this study was from a longer time period than used in previous studies. As a result, some of the climatic averages found in this report do vary from those published in the previous reports. Raw daily temperature maximum, minimum, and precipitation values for both Lead (1943-1999) and Deadwood (1909-1999) are included as Appendices with this report.

The climate present at the two studied weather stations should be similar to the climate present at the GEMSS. Elevations at the GEMSS and at Lead and Deadwood are similar and these two weather stations were located less than five miles from the GEMSS. The climatic properties for Lead and Deadwood, SD described in this report are typical for the northern Black Hills and represent the conditions at GEMSS.

List of Acronyms/Abbreviations/Statistical Terms Used in This Report

AMnT – average monthly minimum temperature.
AMT – average monthly temperature.
AMxT – average monthly maximum temperature.
Apr - April.
Aug - August.
BMC – Brohm Mining Company.
CDM – CMD Federal Programs Corporation (a subsidiary of Camp, Dresser, and McKee Inc.).
CI – confidence interval, interval between two numbers that contains the true mean.
CI lower 95% mean – numerical lower boundary of the interval that contains the true mean with a 95 % level of confidence.
CI upper 95% mean – numerical upper boundary of the interval that contains the true mean with a 95% level of confidence.
CV – coefficient of variation. It is the sample standard deviation expressed as percentage of the sample mean.
DAT – daily average temperature (^{O}F).
Dec - December.
deg F – degrees Fahrenheit (^{O}F).
DENR – South Dakota Department of Environment and Natural Resources.
DMnT – daily minimum temperature (^{O}F).
DMxT – daily maximum temperature (^{O}F).
e.g. – for example.
e^{n} – when used in statistical models means 10^{n} power. E.g., $2.49e^{4} = 2.49 \times 10^{4}$.
EPA – United States Environmental Protection Agency.
et al. – and others.
^{O}F – degrees Fahrenheit.
Feb - February.
ft. – feet.
GEM – Gilt Edge Mine.
GEMSS – Gilt Edge Mine Superfund Site.
Growing degree day (unit) – A unit of heat energy available for plant growth. Adding the maximum and minimum daily temperatures, dividing the sum by 2, and then subtracting the critical temperature below which plant growth is negligible for that area calculates the growing season units for a day. If the daily maximum temperature exceeds the limit for plant growth then the upper temperature limit is used as the maximum temperature for the day. When the daily minimum temperature is lower than the critical low temperature, but above freezing, then the critical low temperature is used as the minimum daily temperature.
in. – inches.
Jan - January.
Jul - July.
Jun - June.
KSL (Kolmogorov-Smirnov-Lillifor) – A statistical test to determine if the distribution is normal. It is used when n>2000. When the value p value is <0.05 then the distribution is not considered normal.
kurtosis – measure of the shape of the peak and tail distribution of the sample when compared to a normal distribution. As kurtosis values increase (more positive) the central peak becomes more peaked and as kurtosis values decrease (more negative) the central peak becomes flatter.
lower 95% mean – see CI lower 95% mean.
normal distribution - a bell-shaped curve , normal curve, that represents the continuous random probability distribution of an event repeated many times. The normal curve is also called the Gaussian distribution. The normal distribution is the most random distribution for a given population mean and variance. The normal distribution is the benchmark used to compare probability distributions and is the standard from which test statistics are derived. The maximum probability, center of the curve, occurs at the mean and the probabilities decline as the values of the event deviate from the mean. The humping of the curve reflects the variance of the population.
Mar - March.
maximum (sample maximum) – largest value within a sample.
mean (sample mean) – the average or expected value in a normal distribution.
median (sample median) – the parameter value where 50% of the data observations are above it and 50% of the data observations are below it.
minimum (sample minimum) – smallest value within a sample.
Nov - November.
NRCS – Natural Resources Conservation Service (part of the USDA).
NWCC – National Water and Climate Center (part of the USDA-NRCS).
N or n – number of observations used in a statistical analysis.
^{o}N – degrees North (latitude).
Oct - October.
p – probability.
quantile – the value where some percent of the observations are below it. A 10% quantile means that 10% of the observations are below that value.
quantile box plot – The quantile box plot is usually found to the right of a histogram. It shows selected quantiles (maximum, 99.5 %[maybe same as maximum on some plots], 97.5%, 90%, 75%, 50%, 25%, 10%, 2.5%, 0.5%[may

be the same as minimum on some plots], and minimum) on the response axis. The quantile box shows the median as a horizontal line across the middle and the quartiles (25th and 75th percentiles) as the ends of the box. The diamond in the quantile plot identifies the mean of the sample and the 95% confidence interval about the mean. See image of quantile box plot below.



quartile – specialized quantile (e.g. lower quartile = 25% quantile, upper quartile = 75% quantile).
Sep - September.
SD – South Dakota.
SDAES – South Dakota Agricultural Experiment Station (part of SDSU).
SDSU – South Dakota State University.
Shapiro-Wilk W test – a statistical test to determine if the distribution is normal. It is used when n ≤2000. When the p value is <0.05 then the distribution is not considered normal.
significant (statistical tests)- When used in this report means probability <0.05, unless otherwise indicated.
SNPL – Superfund National Priorities List.
skewness – measures the asymmetry of the sample distribution. A negative value is skewed to the left (long tail in negative direction) and a positive value is skewed to the right (long tail to positive direction) when compared to a normal distribution.
standard deviation (sample standard deviation) – square root of the sample variance.
standard error of the mean – estimates the standard deviation of the sample mean.
upper 95% mean – see CI upper 95% mean.
USDA – United States Department of Agriculture.
USDI – United States Department of the Interior.
USGS – United States Geological Survey.
variance (sample variance) – the average squared deviation from the sample mean .
W statistic – The Shapiro-Wilk statistic used to test for normality in samples with 2000 or less observations. If the value of W is <0.05 then it is concluded that the distribution is not normal.
^{o}W – degrees West (longitude).

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INTRODUCTION

Since the late 1800's the area southeast of Deadwood and Lead in the northern Black Hills of South Dakota, SD, has been mined and disturbed (CDM, 2001). The most recent owner and operator of the Gilt Edge Mine (GEM) site is the Brohm Mining Corporation (BMC). In 1998 the GEM, a gold mine, was abandoned and the reclamation of the mining site area was halted. In 1999 BMC filed for bankruptcy and the SD Department of Environment and Natural Resources (DENR) began responsibility for site remediation. In 2000 SD requested that the GEM site be listed by the US Environmental Protection Agency (EPA) on the Superfund National Priorities List (SNPL). In 2000 the EPA became involved in the project and, at the same time, asked South Dakota State University (SDSU) through the South Dakota Agricultural Experiment Station (SDAES) to assist in the development of a remediation and revegetation plan for the abandoned Gilt Edge Mine Superfund Site (GEMSS), in particular the Ruby Gulch Waste Rock Repository. A detailed description of the GEMSS history and mining operations (CDM, 2001) and a proposed plan for remediation of the Ruby Gulch Waste Rock Repository and Cap have been completed (EPA, 2001). This report details the climatic information for the two nearest weather stations to the GEMSS, Lead and Deadwood, SD. It provides information to assist in creating the soil (rooting media) and selecting appropriate types of vegetation for the Ruby Gulch Waste Rock Repository and Cap.

Site Location

The GEMSS is located in the east central part of Lawrence County, SD (Figure 1). Figure 2 is an aerial view of the GEMSS. The nearest towns are Deadwood and Lead and they are about 5 miles northwest of the GEMSS. The site is located in parts of Sections 4, 5, 6, 7, 8, and 9 in Town 4 North, Range 4 East of the Black Hills Meridian in Lawrence County, SD. The global position coordinates for the GEMSS are 44.3286 ^{O}N latitude and 103.6745 ^{O}W longitude. The average elevation at the GEMSS site ranges from 4900 to 5700 feet above sea level and it is located within the boundaries of the Black Hills National Forest (Figure 3, USGS, 1961). The site is immediately north of Strawberry Creek and immediately southeast of Anchor Hill and drainage from the GEMSS flows into Bear Butte Creek through Ruby Gulch, Terrible Gulch, Butcher Gulch, HooDo Gulch, and Strawberry Creek (Figures 2, 3, 4 and 5). Bear Butte Creek is a cold-water fishery and a municipal water supply for the northern Black Hills (EPA, 2001).

Project Objective and Goals

The objective of the EPA and SD DENR at GEMSS is to continue the long-term cleanup of the site (EPA, 2001). In order to accomplish this objective the following goals have been established:

1. Develop and implement a revegetation and remediation plan to reduce environmental risks for the Ruby Dump and Gulch Waste Rock Repository and other appropriate areas at the GEMSS.
2. Manage and treat the acid rock drainage waters on the site.
3. Monitor the remediation process and make adjustments to the plan as needed in the future.

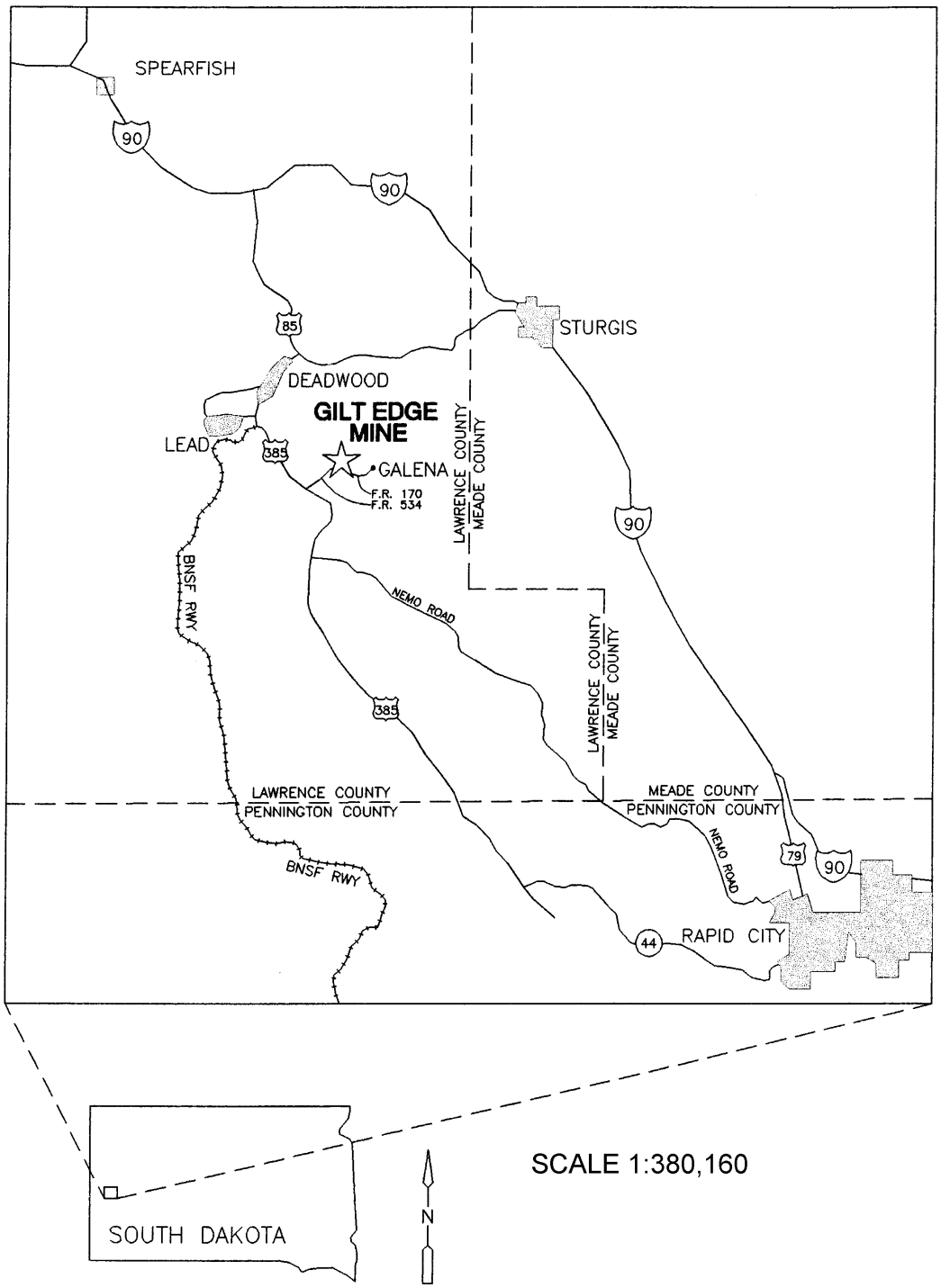


Figure 1. Gilt Edge Mine location in Lawrence County, SD. (Modified from *Final Focused Feasibility Study for Gilt Edge Mine Site Ruby Dump and Gulch Operable Unit 3 Lawrence County, South Dakota*, CDM, 2001).

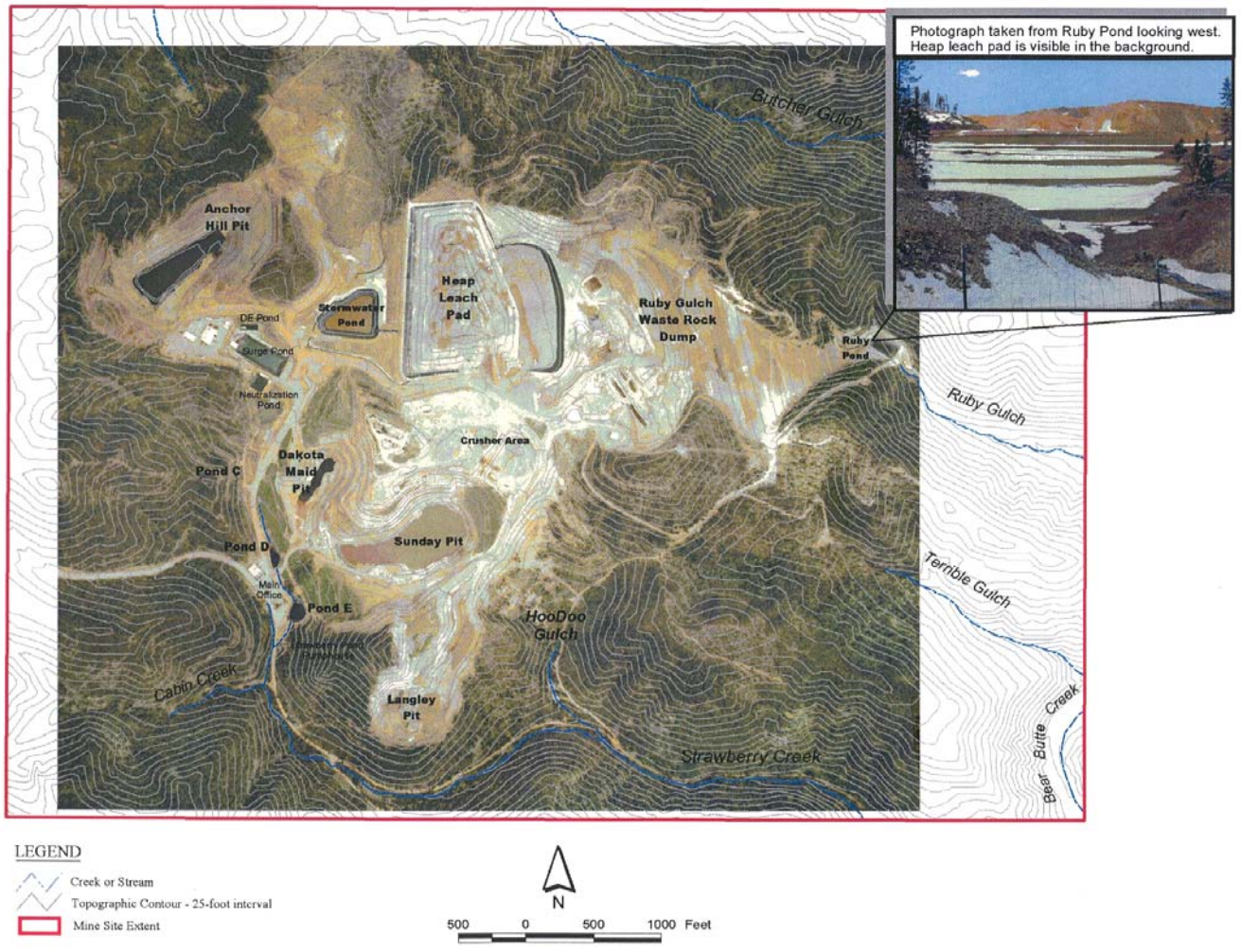


Figure 2. Facilities layout of GEMSS. Original figure prepared by CDM Federal Programs Corporation, 2001.

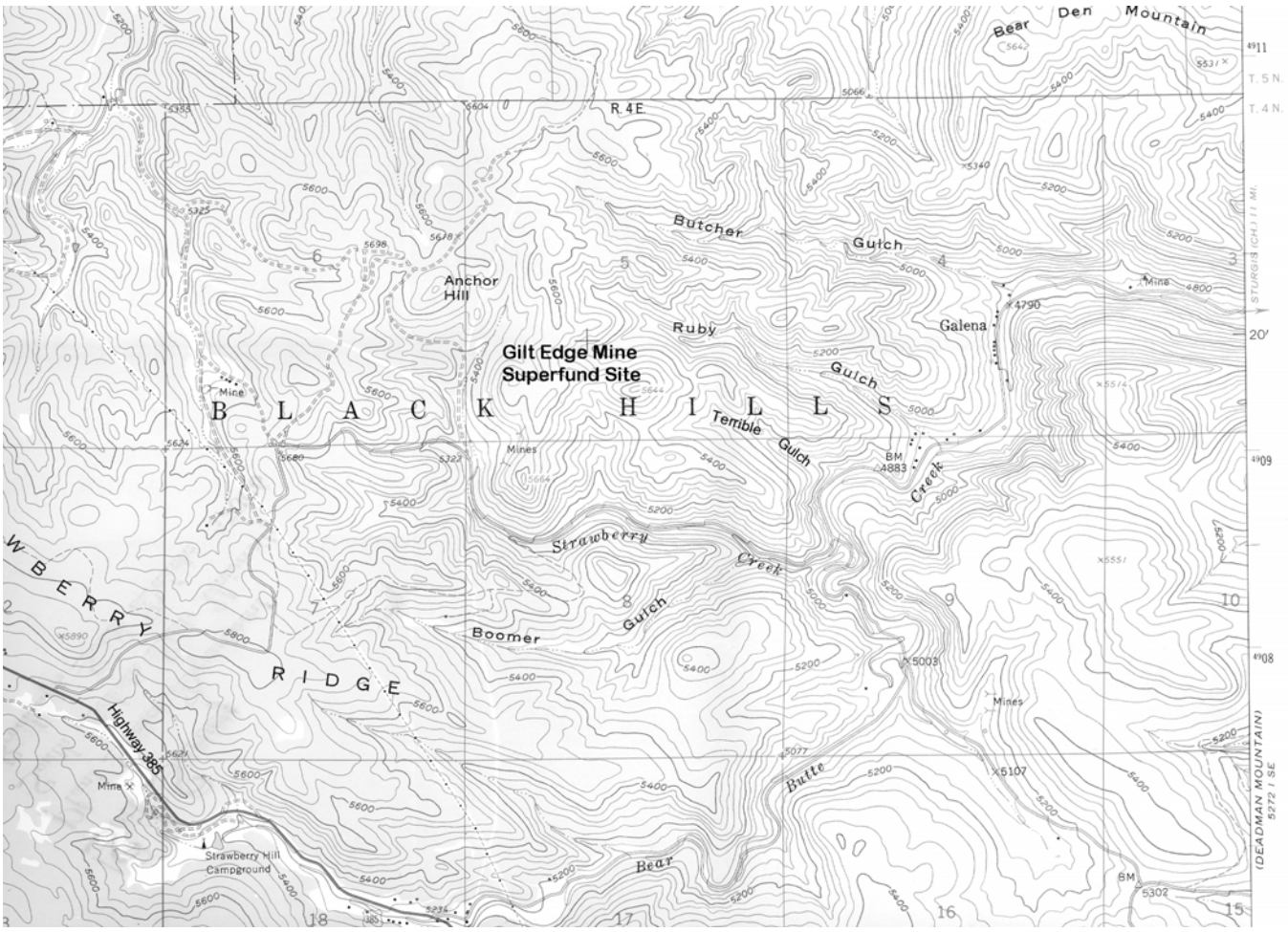


Figure 3. GEMSS area topography map. Each square = 1 square mile. Contour interval = 40 ft. (Source USGS, 1961)

Figure 4. East half of the GEMSS showing facilities and topographic features. Scale is 1:6,600 (modified from USDI, 2000).

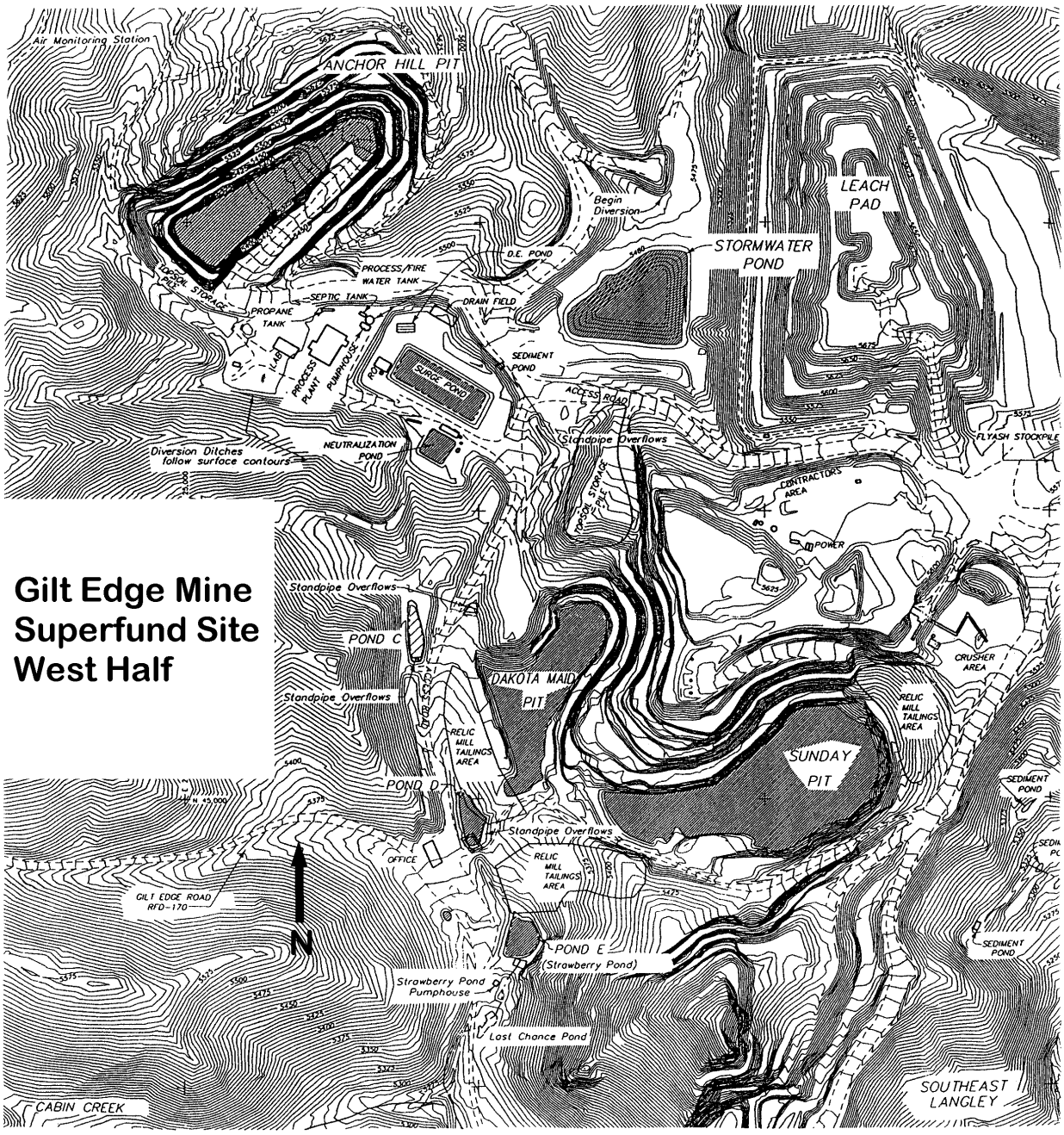


Figure 5. West half of the GEMSS showing facilities and topographic features. Scale is 1:6,600 (modified from USDI, 2000).

Report Objectives

The objectives of this report are:

1. Detail and summarize the climatic information for the GEMSS.
2. Analyze the data for application for soil and vegetation purposes.
3. Archive the raw weather data for future analyses.

This information will be used to develop the soil and vegetation remediation plan for the Ruby Dump and Gulch Waste Rock area and other appropriate areas at the GEMSS.

CLIMATE DATA SOURCES

The sources of climatic data used in this study were:

1. Daily maximum and minimum temperature and precipitation data for Deadwood, SD (sd220704) from 1943-1999 (Bender, 2000a).
2. Daily maximum and minimum temperature and precipitation data for Lead, SD (sd483404) from 1909-1999 (Bender, 2000b).
3. Climatic data for Lead, SD from 1909-1968 (Spuhler et al., 1971).
4. Climatic data for Lawrence County, SD 1948-1999 (United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) National Water and Climate Center (NWCC, 2001).
5. Climatic data for Lawrence County in Soil Survey of Lawrence County, South Dakota (Meland, 1979).

The climatic information from Spearfish, SD was not included in this report because Spearfish is located at a much lower elevation (3650 ft) and is located further away from the GEMSS site than Lead and Deadwood.

METHODS OF ANALYSIS

The climatic data was converted to Excel files and analyzed using the statistical capabilities of Microsoft® Excel 2000 (Microsoft, 1999) and using SAS JMP® (Sall and Lehman, 1996). The precipitation and temperature data were aggregated by month to determine monthly averages or totals. Daily average temperatures were determined using the maximum and minimum temperatures in the data set. Descriptive statistics for both monthly and daily values (frequency histograms, quantile box plots, maximum, median, minimum mean, variance, skewness, kurtosis, confidence intervals, and others) were calculated using JMP®. Regression and correlation analyses were used to evaluate relationships between climatic variables and with time. The data were sorted to identify precipitation and temperature extremes. The categories selected for precipitation extremes were daily totals of 1 to 2 in., 2 to 3 in., 3 to 4 in., 4 to 5 in. and greater than 5 in. Temperature extremes selected for daily maximums were 65 to 70, 70 to 75, 75 to 80, 80 to 85, 85 to 90, and greater than 90 ^{O}F. Temperature extremes selected for daily minimums were 40 to 35, 35 to 30, 30 to 25, 25 to 20, 20 to 10, 10 to 0, 0 to –10, –10 to –20, and less than -20 ^{O}F. Probabilities (number of days) for the selected precipitation and temperature extremes per month and per year were calculated. Precipitation data from seven consecutive days were added together to obtain a 7-day total for precipitation evaluation. The data were studied to evaluate relationships between the climatic properties studied. The results were compared to climatic information from other sources (Spuhler et al., 1971; Meland, 1979; and NWCC, 2001) to verify the results. The raw daily weather data used in this study are presented in the Appendices.

RESULTS

The results in this report are separated by town (e.g. Deadwood and Lead) to organize the information.

Deadwood, SD - Climatic Data

The daily maximum and minimum temperature and precipitation data for Deadwood, SD (sd220704) from 1943-1999 (Bender, 2000a) are printed in Appendix A (temperature) and Appendix B (precipitation). The weather station is located at an elevation of 4700 ft above sea level.

TEMPERATURE – Monthly Information

Maximum Temperatures – 57 yr average

The maximum temperature averages by month for the 57 years studied at Deadwood, SD are shown in Figure 6. The months with the highest monthly average maximum temperatures, 80 ^{O}F, are July and August while the month with the lowest monthly average maximum temperature values, 35 ^{O}F, is January.

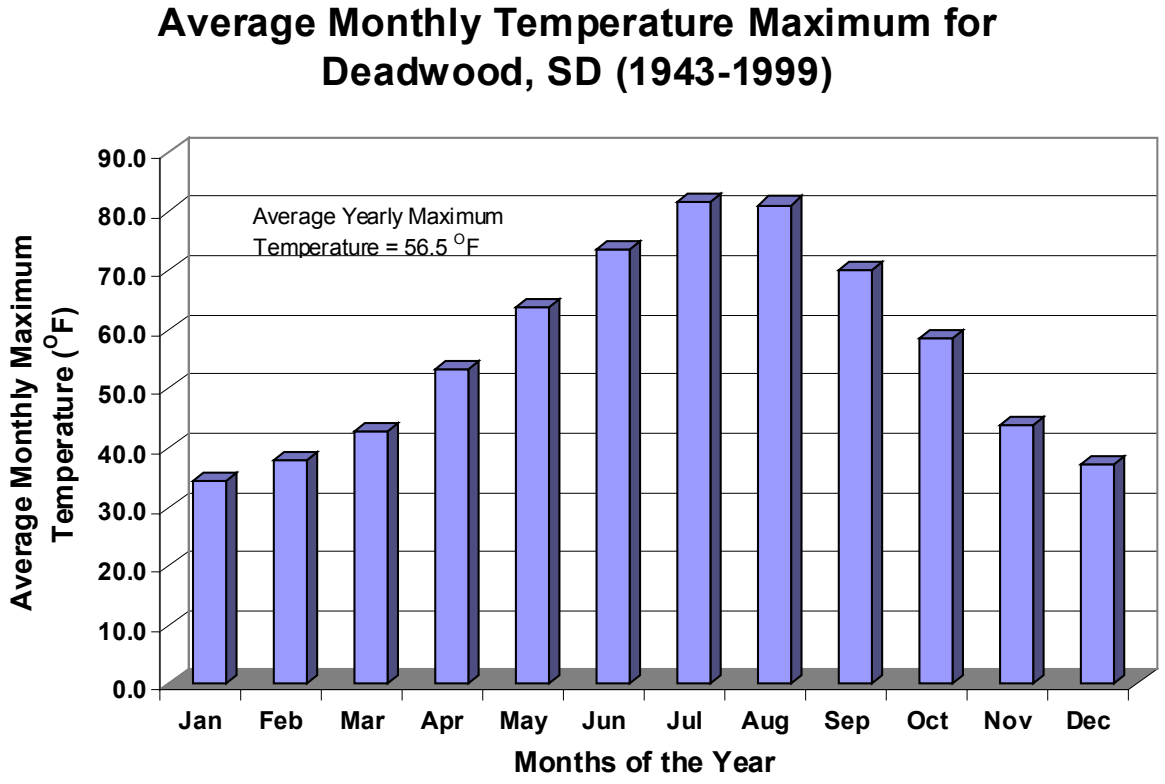


Figure 6. Average monthly temperature maximums (1943-1999) for Deadwood, South Dakota (daily data from Bender 2000a).

Minimum Temperatures – 57 year average

The minimum temperature averages by month for the 57 years studied at Deadwood, SD are shown in Figure 7. The months with the highest monthly average minimum temperatures, 50 ^{O}F,

are July and August while the month with the lowest monthly average minimum temperature value, 10 ^{O}F, is January.

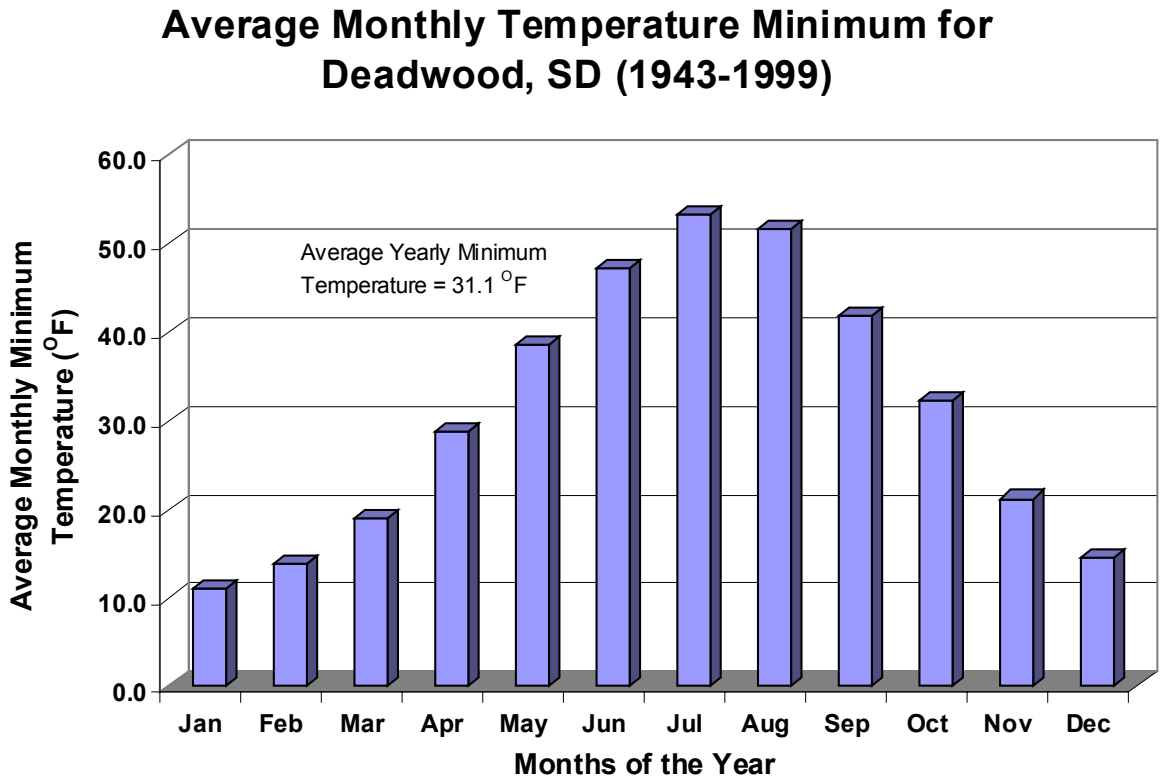


Figure 7. Average monthly temperature minimums (1943-1999) for Deadwood, South Dakota (daily data from Bender, 2000a).

Average Temperatures – 57 yr average

The monthly temperature averages for the 57 years studied at Deadwood, SD are shown in Figure 8. The months with the highest monthly average temperatures, 65 ^{O}F, are July and August while the month with the lowest monthly average temperatures, 20 ^{O}F, is January.

Average Monthly Maximum Temperatures (missing data caused differences in n values)

The distribution (histograms) of the monthly average maximum temperatures (AMxT) for each month of the year (Figures 9a, 9c, 9e, 9g, 9i, 9k, 9n, 9q, 9s, 9u, 9w, and 9y) and as a function of year (Figures 9b, 9d, 9f, 9h, 9j, 9m, 9p, 9r, 9t, 9v, 9x, and 9z) at Deadwood, SD show interesting trends. Most months have normal distributions of AMxT while July AMxT (Figure 9n) does not have a normal distribution (probability of W <0.05) during 1943-1999. The highest AMxT was 88.8 ^{O}F during July 1954 and the lowest recorded AMxT was 21.3 ^{O}F during January 1979. Seven months (Jan, Feb, Apr, May, Jun, Sep, and Nov) had no significant trend when AMxT and year were compared. March had a significant upward trend (Figure 9f) while July had a significant downward trend in AMxT with year (Figure 9p). The months of Aug, Oct, and Dec (Figures 9r, 9v, and 9z) had curvilinear trends with minimum AMxT values occurring during the 1970s and 1980s.

When examining the distribution of Deadwood, SD average annual maximum temperatures for 1943-1999 the evidence of a bi-modal distribution is shown (Figures 10a and 10b). The yearly

average maximum temperatures during the 1970s and 1980s were significantly cooler than at other times.

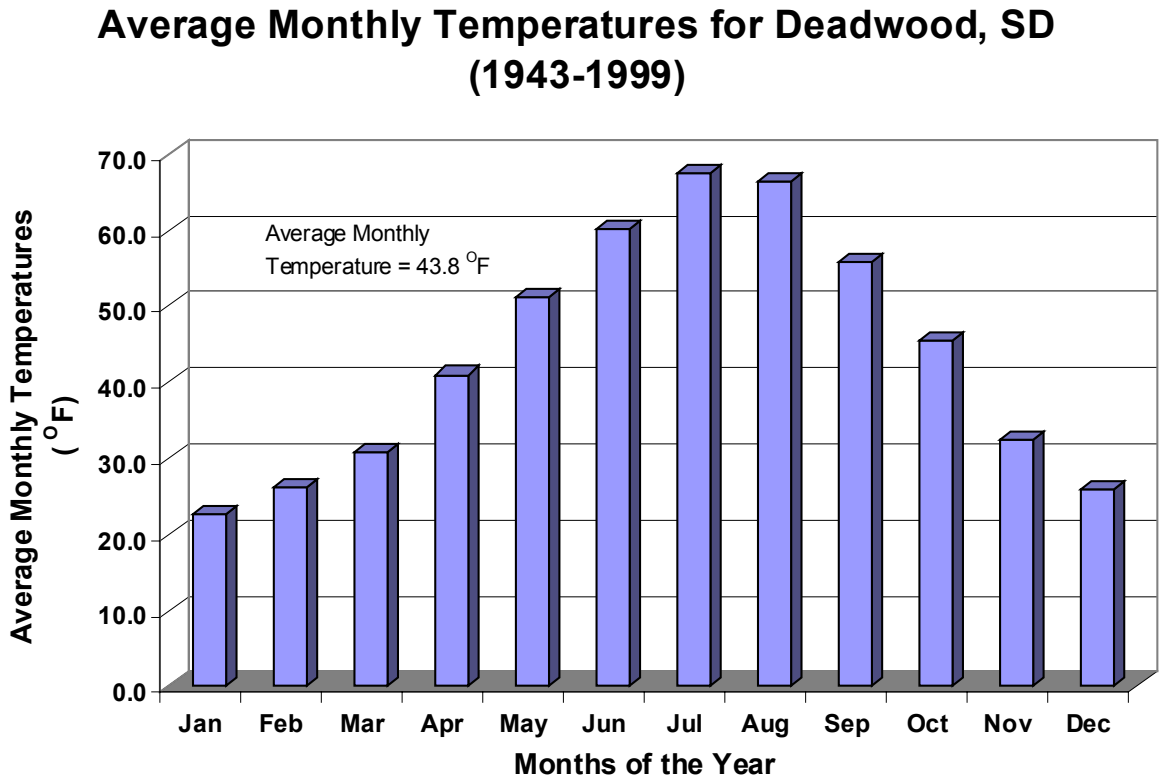
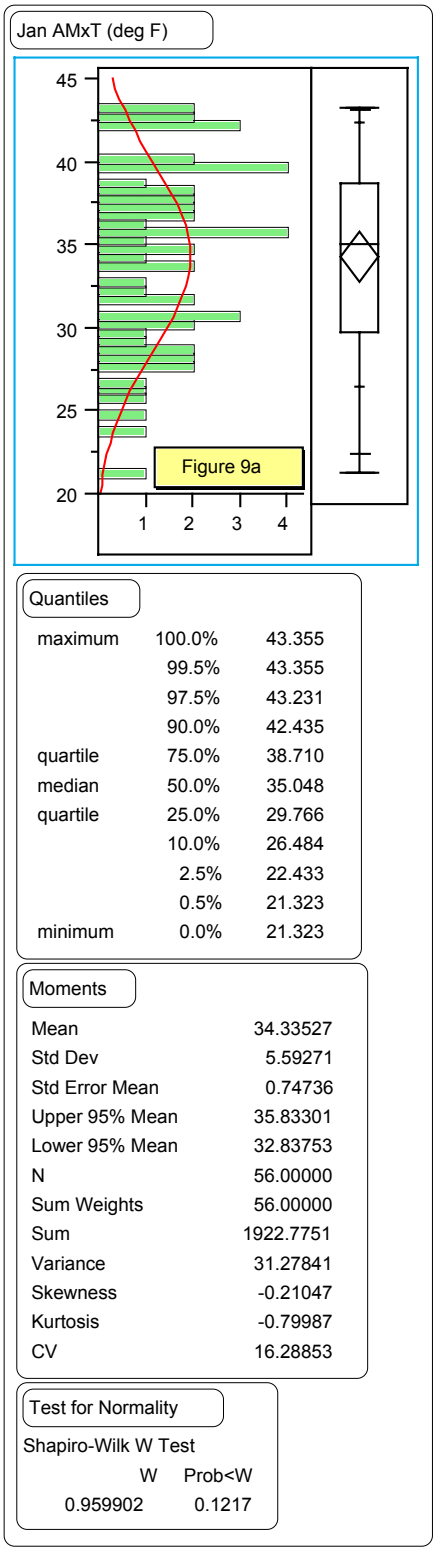


Figure 8. Average monthly temperatures (1943-1999) for Deadwood, South Dakota (daily data from Bender, 2000a).

Average Monthly Minimum Temperatures (missing data caused differences in n values)
The distribution (histograms) of the monthly average minimum temperatures (AMnT) for each month of the year (Figures 11a, 11c, 11e, 11g, 11i, 11k, 11n, 11q, 11s, 11u, 11w, and 11y) and as a function of year (Figures 11b, 11d, 11f, 11h, 11j, 11m, 11p, 11r, 11t, 11v, 11x, and 11z) at Deadwood, SD show interesting trends. All months have normal distributions of AMnT. Three months [January (Figure 11a), July (Figure 11n), and December (Figure 11y)] were nearly not normal with W values <0.085. The highest AMnT was 58.6 ^{O}F during August 1983 and the lowest recorded AMnT was –1.9 ^{O}F during January 1949. Nine months had no significant trend when AMnT and year were compared. July (Figure 11p) and August (Figure 11r) had increasing trends of AMnT with year with probabilities at the 0.08 level. Most tended to trend positively with time. March (Figure 11f), June (Figure 11m), and September (Figure 11t) had significant positive trends in AMnT with year.

When examining the distribution of Deadwood, SD average annual minimum temperatures for 1943-1999 there is strong linear relationship between AMnT and year (Figures 12a and 12b). The yearly average minimum temperatures have increased significantly from 1943 to 1999.



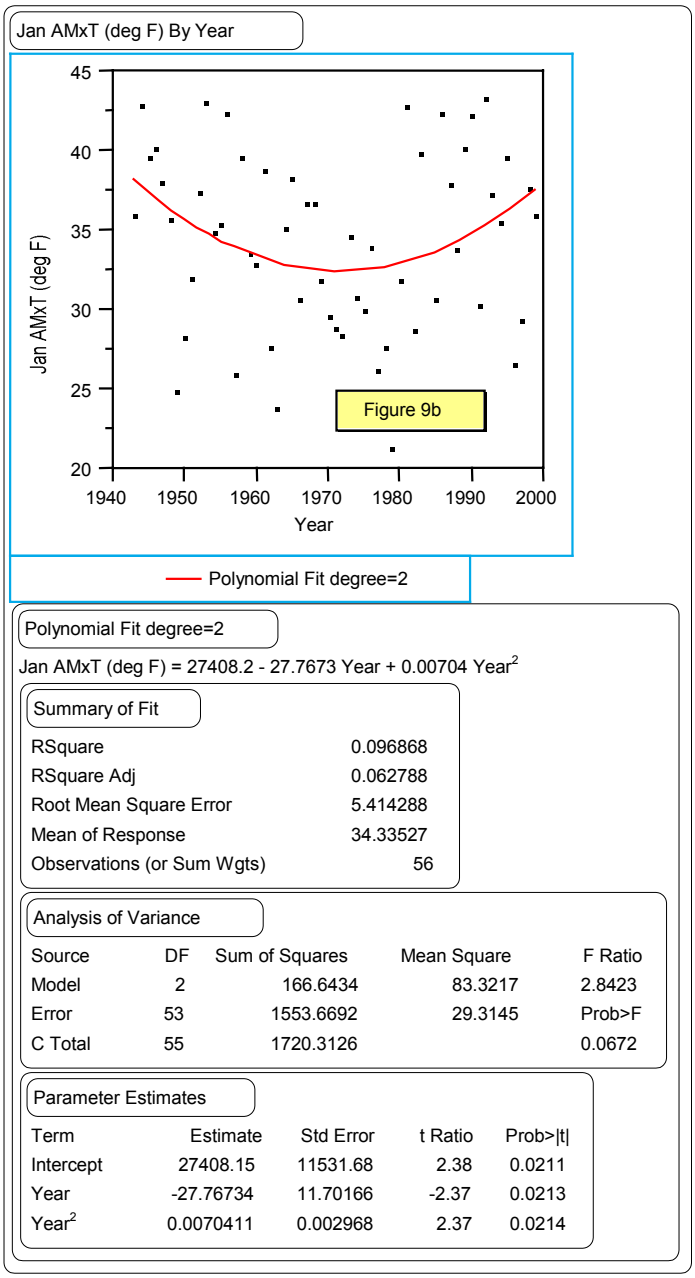
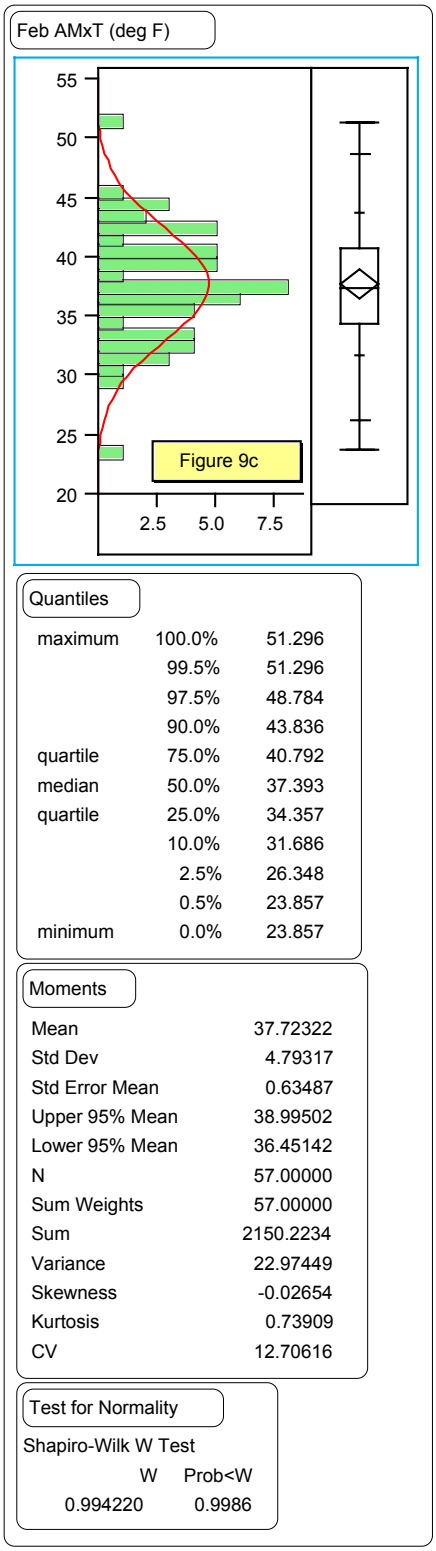


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for January (Figure 9a) and distribution through 1943-1999 (Figure 9b) for Deadwood, SD. On Figure 9a the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	51.296
	99.5%	51.296
	97.5%	48.784
	90.0%	43.836
quartile	75.0%	40.792
median	50.0%	37.393
quartile	25.0%	34.357
	10.0%	31.686
	2.5%	26.348
	0.5%	23.857
minimum	0.0%	23.857

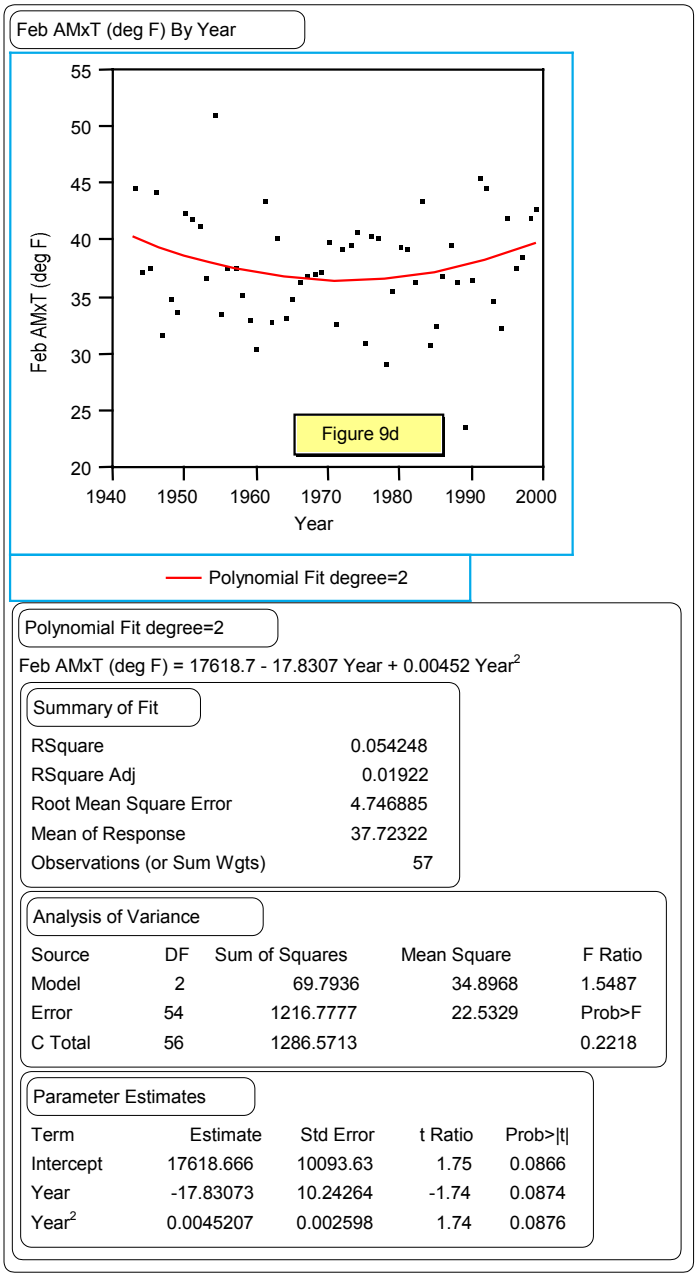
Moments

Mean	37.72322
Std Dev	4.79317
Std Error Mean	0.63487
Upper 95% Mean	38.99502
Lower 95% Mean	36.45142
N	57.00000
Sum Weights	57.00000
Sum	2150.2234
Variance	22.97449
Skewness	-0.02654
Kurtosis	0.73909
CV	12.70616

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.994220	0.9986



Polynomial Fit degree=2

Feb AMxT (deg F) = 17618.7 - 17.8307 Year + 0.00452 Year^2

Summary of Fit

RSquare	0.054248
RSquare Adj	0.01922
Root Mean Square Error	4.746885
Mean of Response	37.72322
Observations (or Sum Wgts)	57

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	69.7936	34.8968	1.5487
Error	54	1216.7777	22.5329	Prob>F
C Total	56	1286.5713		0.2218

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	17618.666	10093.63	1.75	0.0866
Year	-17.83073	10.24264	-1.74	0.0874
Year^2	0.0045207	0.002598	1.74	0.0876

Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for February (Figure 9c) and distribution through 1943-1999 (Figure 9d) for Deadwood, SD. On Figure 9c the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

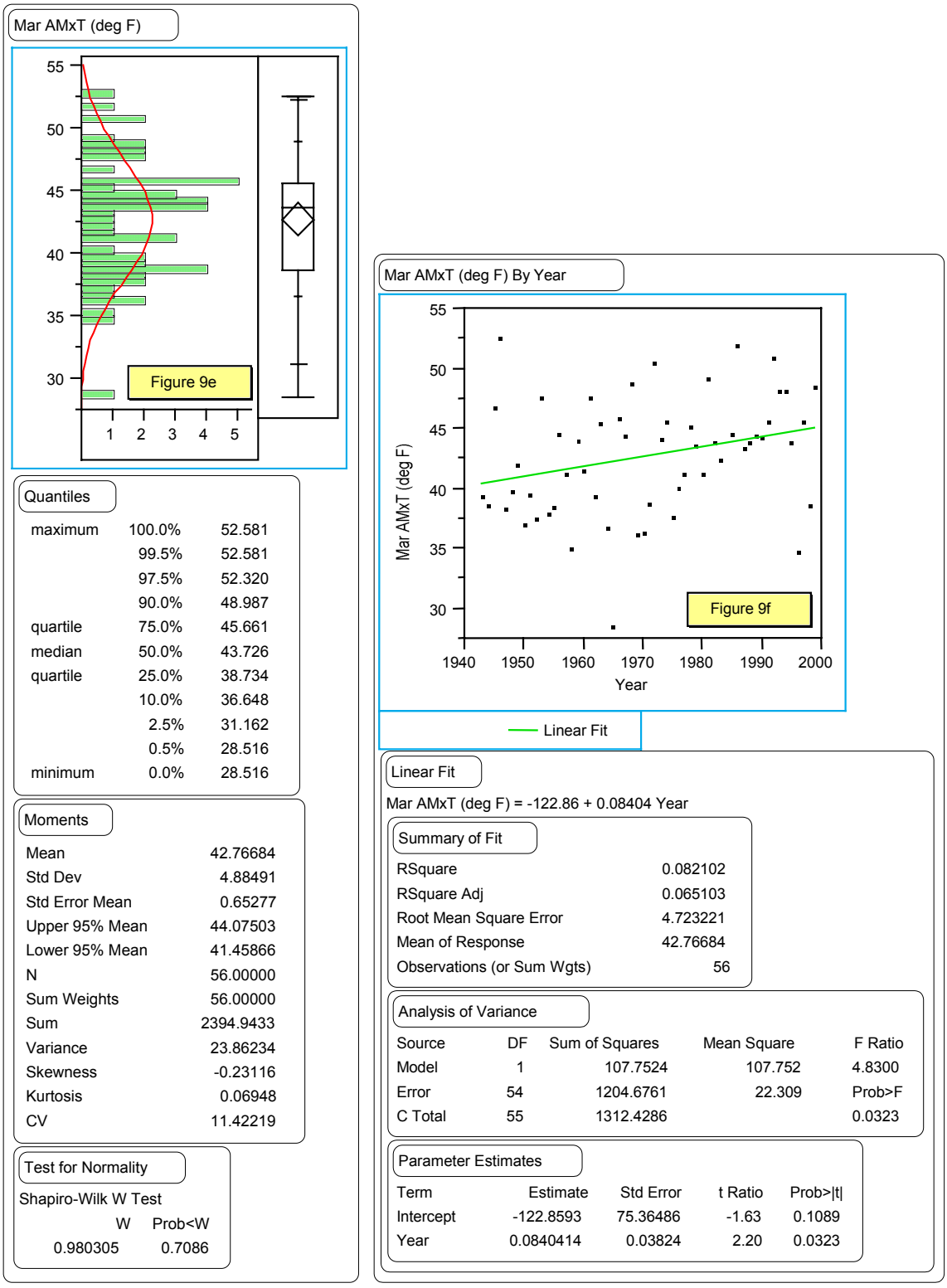


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for March (Figure 9e) and distribution through 1943-1999 (Figure 9f) for Deadwood, SD. On Figure 9e the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

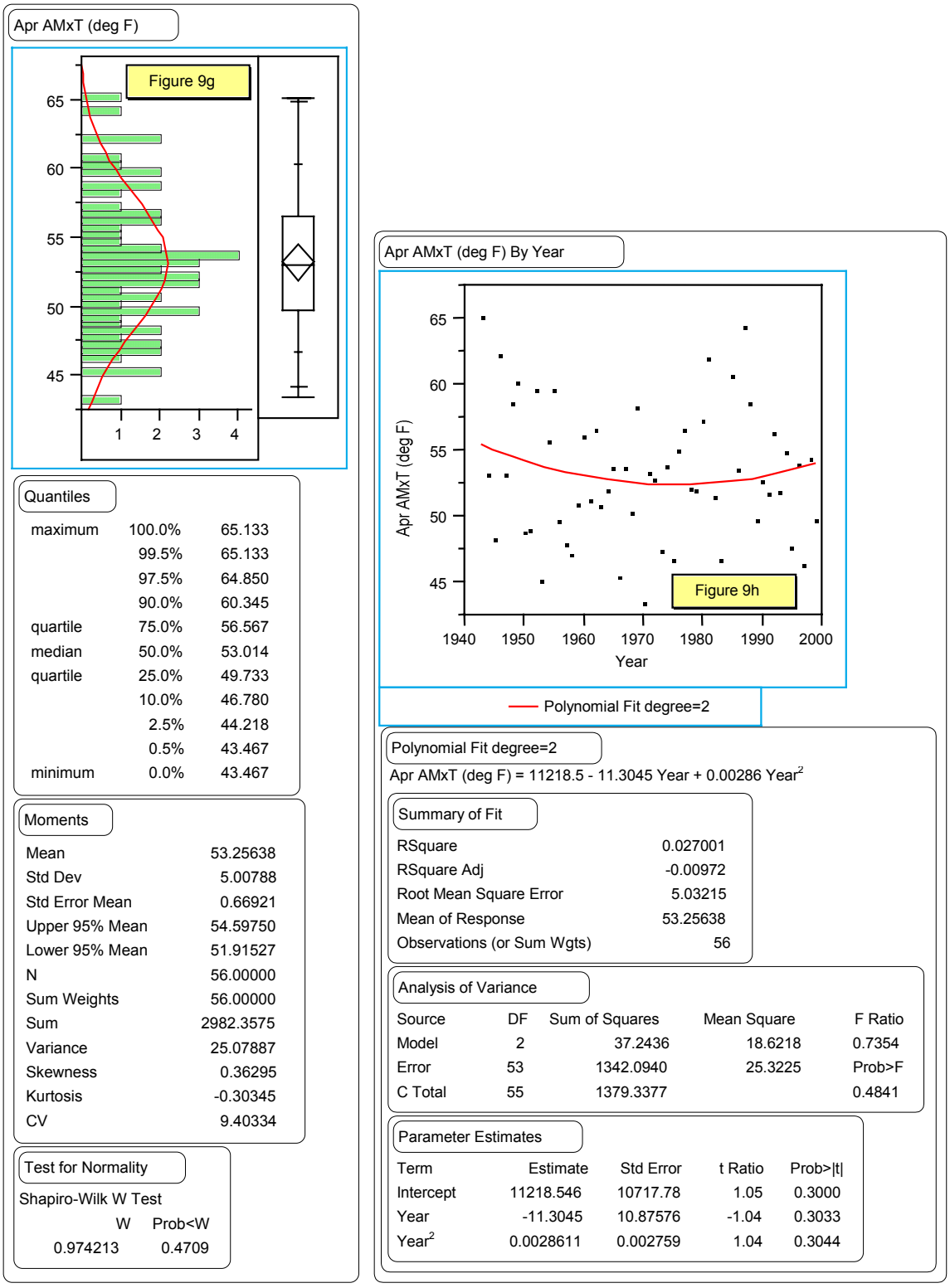
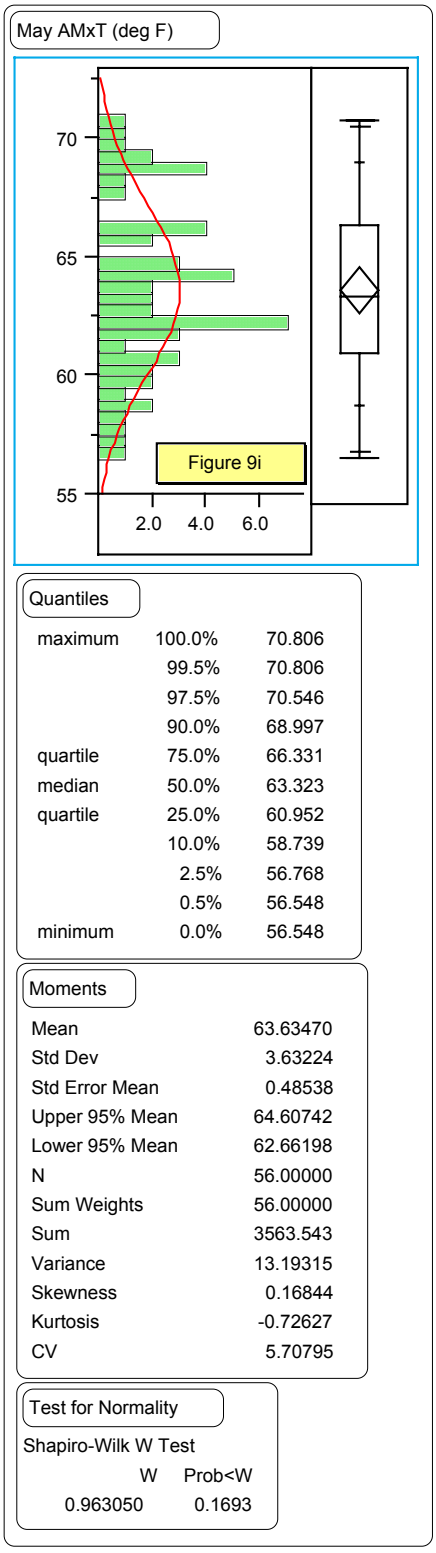


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for April (Figure 9g) and distribution through 1943-1999 (Figure 9h) for Deadwood, SD. On Figure 9g the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	70.806
	99.5%	70.806
	97.5%	70.546
	90.0%	68.997
quartile	75.0%	66.331
median	50.0%	63.323
quartile	25.0%	60.952
	10.0%	58.739
	2.5%	56.768
	0.5%	56.548
minimum	0.0%	56.548

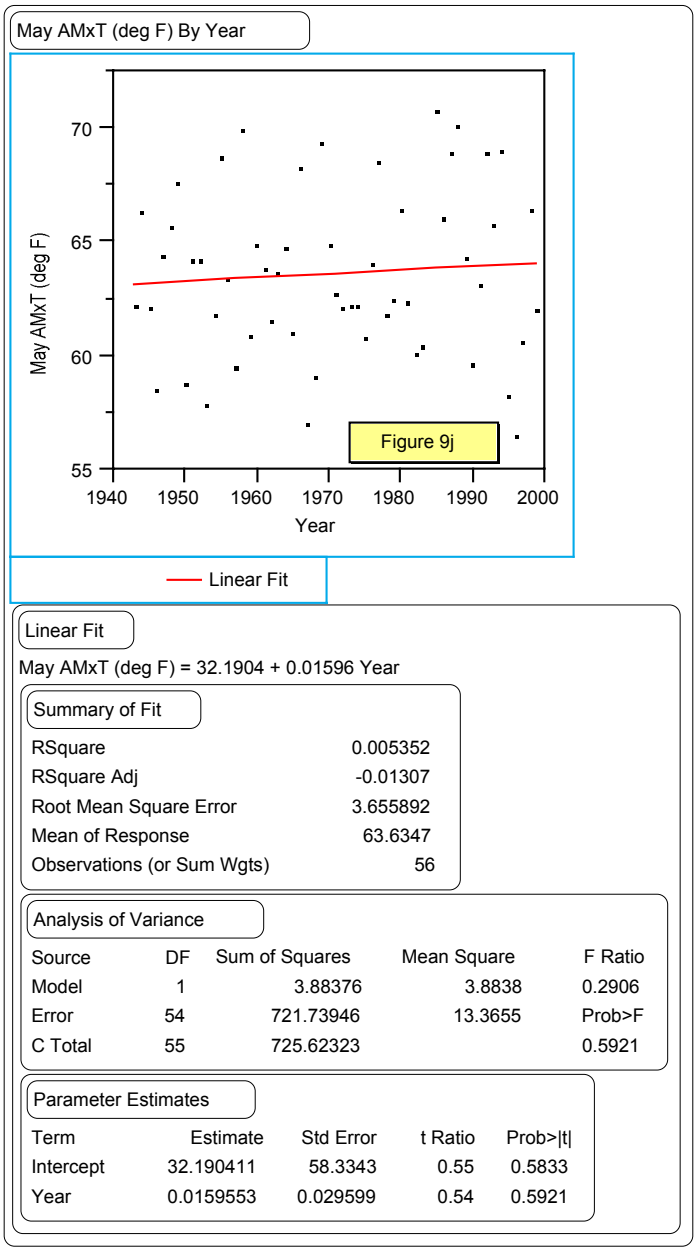
Moments

Mean	63.63470
Std Dev	3.63224
Std Error Mean	0.48538
Upper 95% Mean	64.60742
Lower 95% Mean	62.66198
N	56.00000
Sum Weights	56.00000
Sum	3563.543
Variance	13.19315
Skewness	0.16844
Kurtosis	-0.72627
CV	5.70795

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.963050	0.1693



Linear Fit

May AMxT (deg F) = 32.1904 + 0.01596 Year

Summary of Fit

RSquare	0.005352
RSquare Adj	-0.01307
Root Mean Square Error	3.655892
Mean of Response	63.6347
Observations (or Sum Wgts)	56

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	3.88376	3.8838	0.2906
Error	54	721.73946	13.3655	Prob>F
C Total	55	725.62323		0.5921

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	32.190411	58.3343	0.55	0.5833
Year	0.0159553	0.029599	0.54	0.5921

Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for May (Figure 9i) and distribution through 1943-1999 (Figure 9j) for Deadwood, SD. On Figure 9i the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

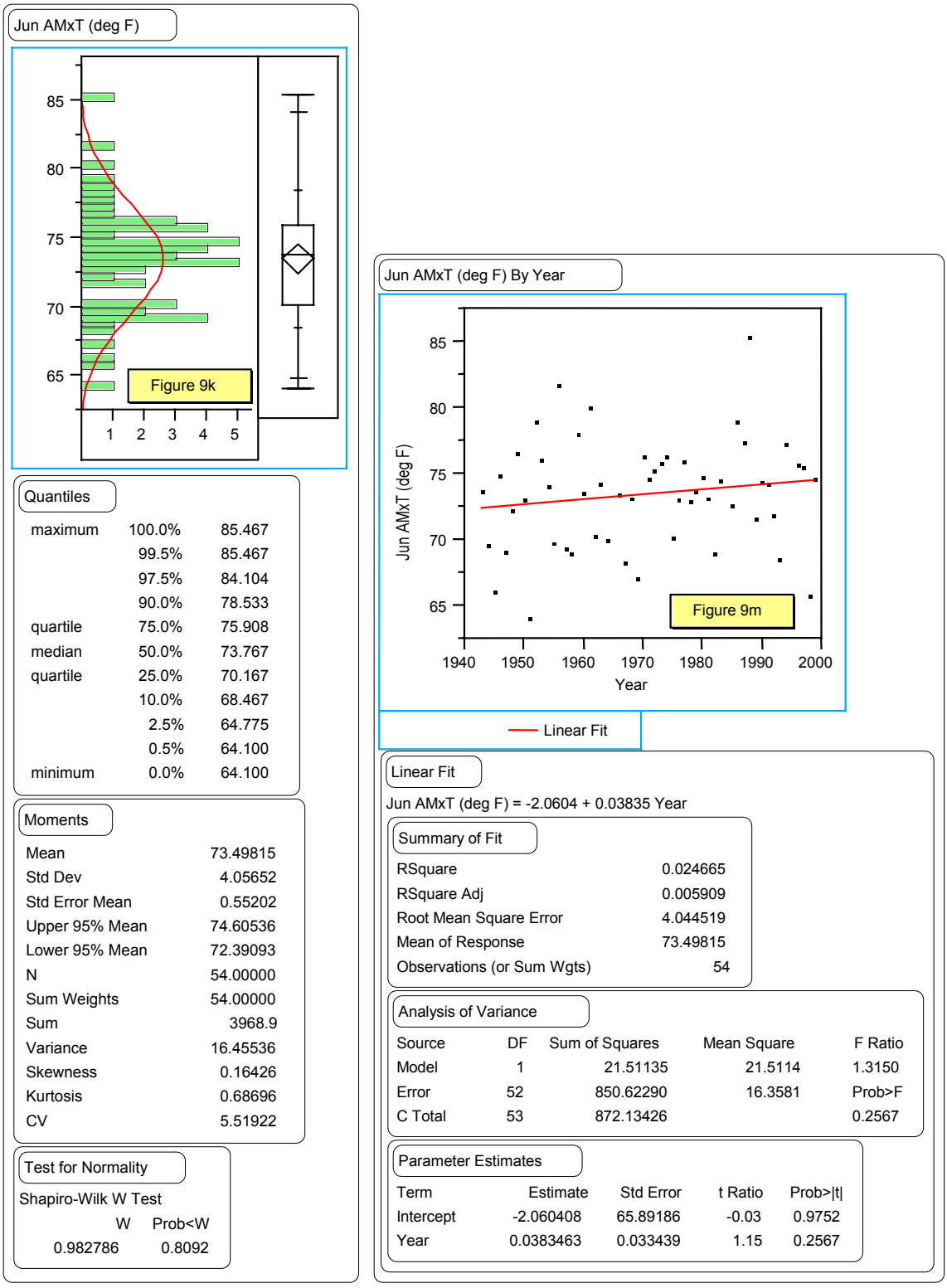


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for June (Figure 9k) and distribution through 1943-1999 (Figure 9m) for Deadwood, SD. On Figure 9k the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

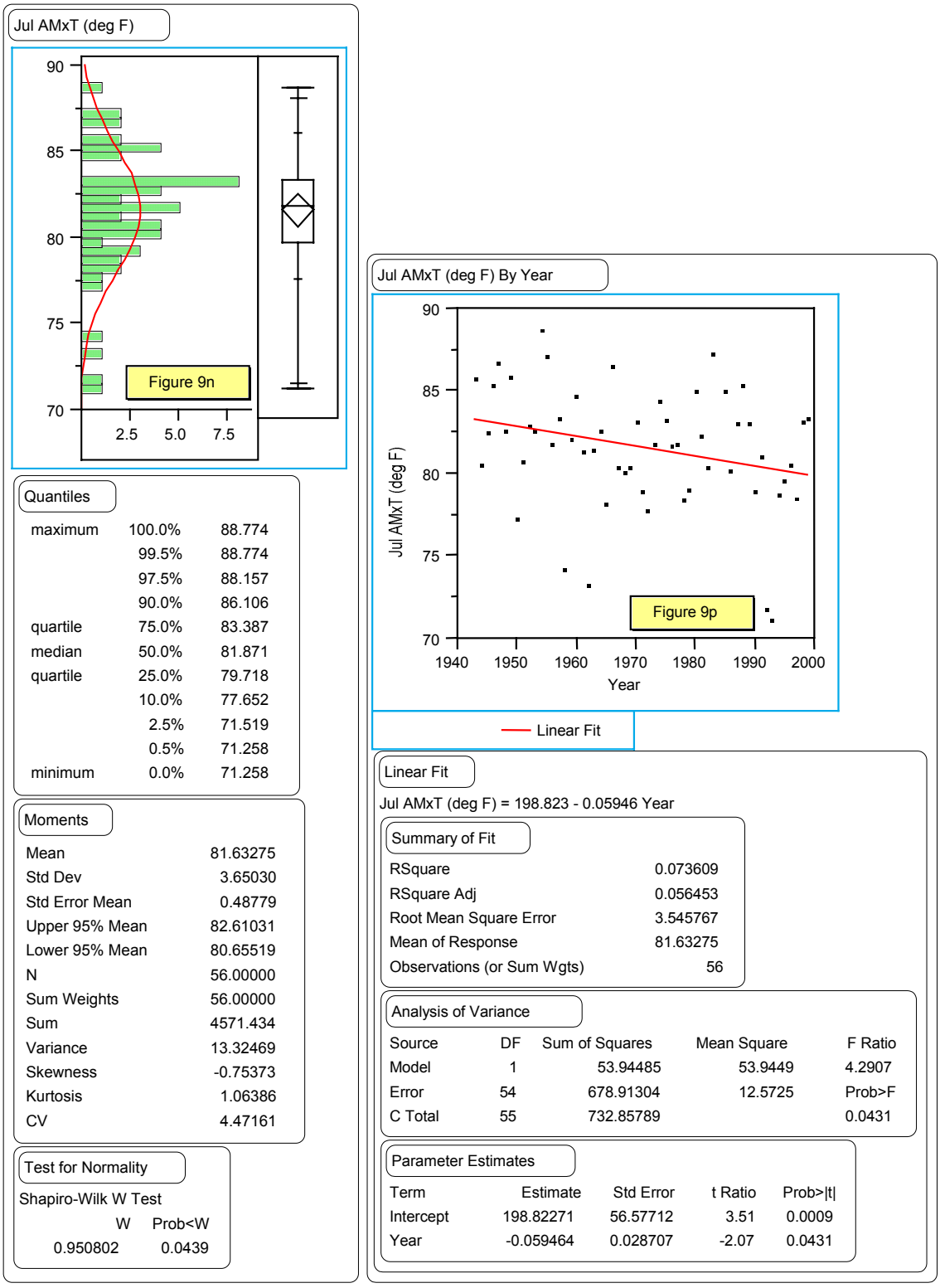
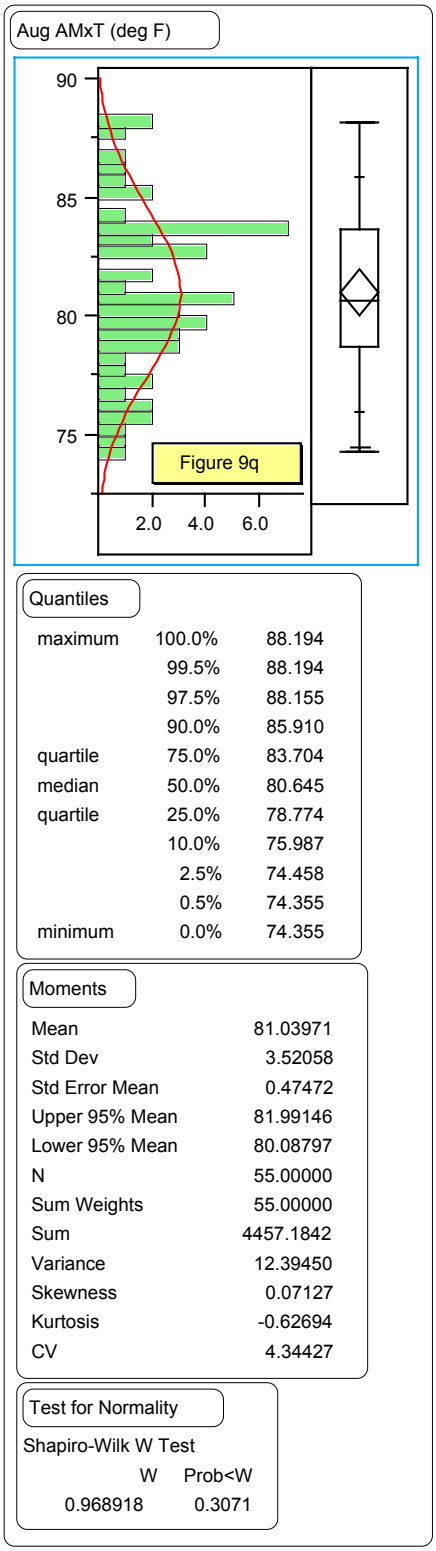


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for July (Figure 9n) and distribution through 1943-1999 (Figure 9p) for Deadwood, SD. On Figure 9n the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



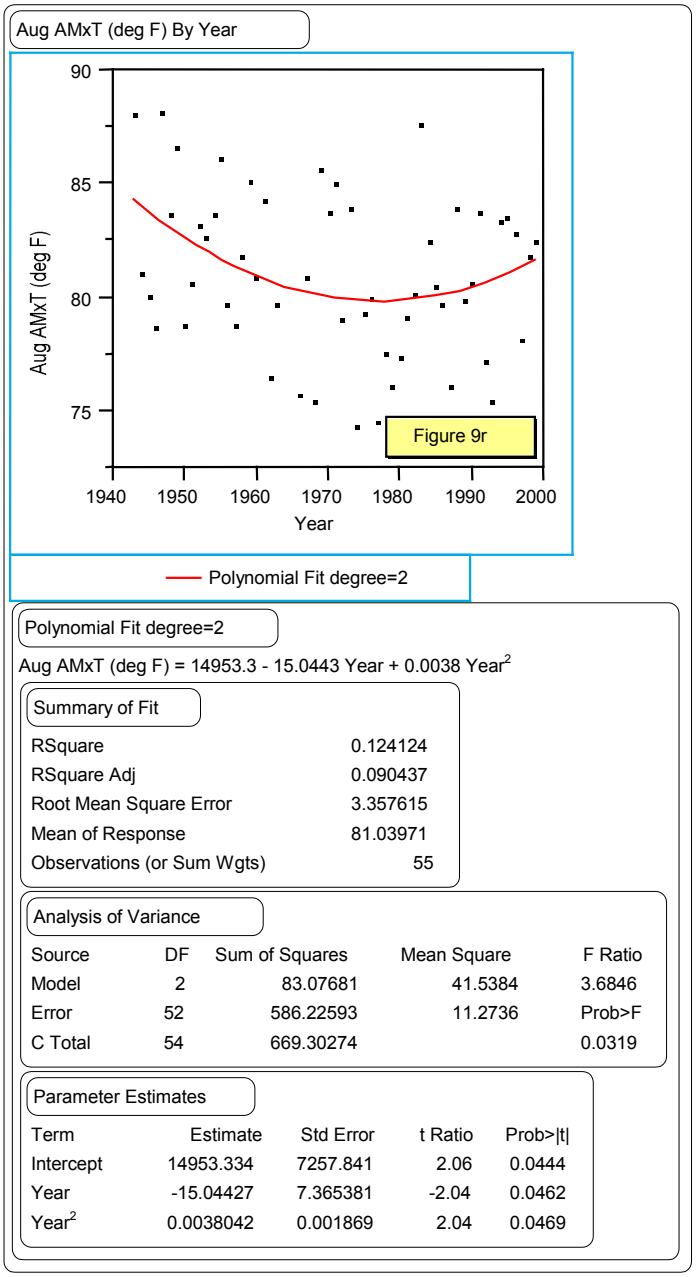


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for August (Figure 9q) and distribution through 1943-1999 (Figure 9r) for Deadwood, SD. On Figure 9q the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

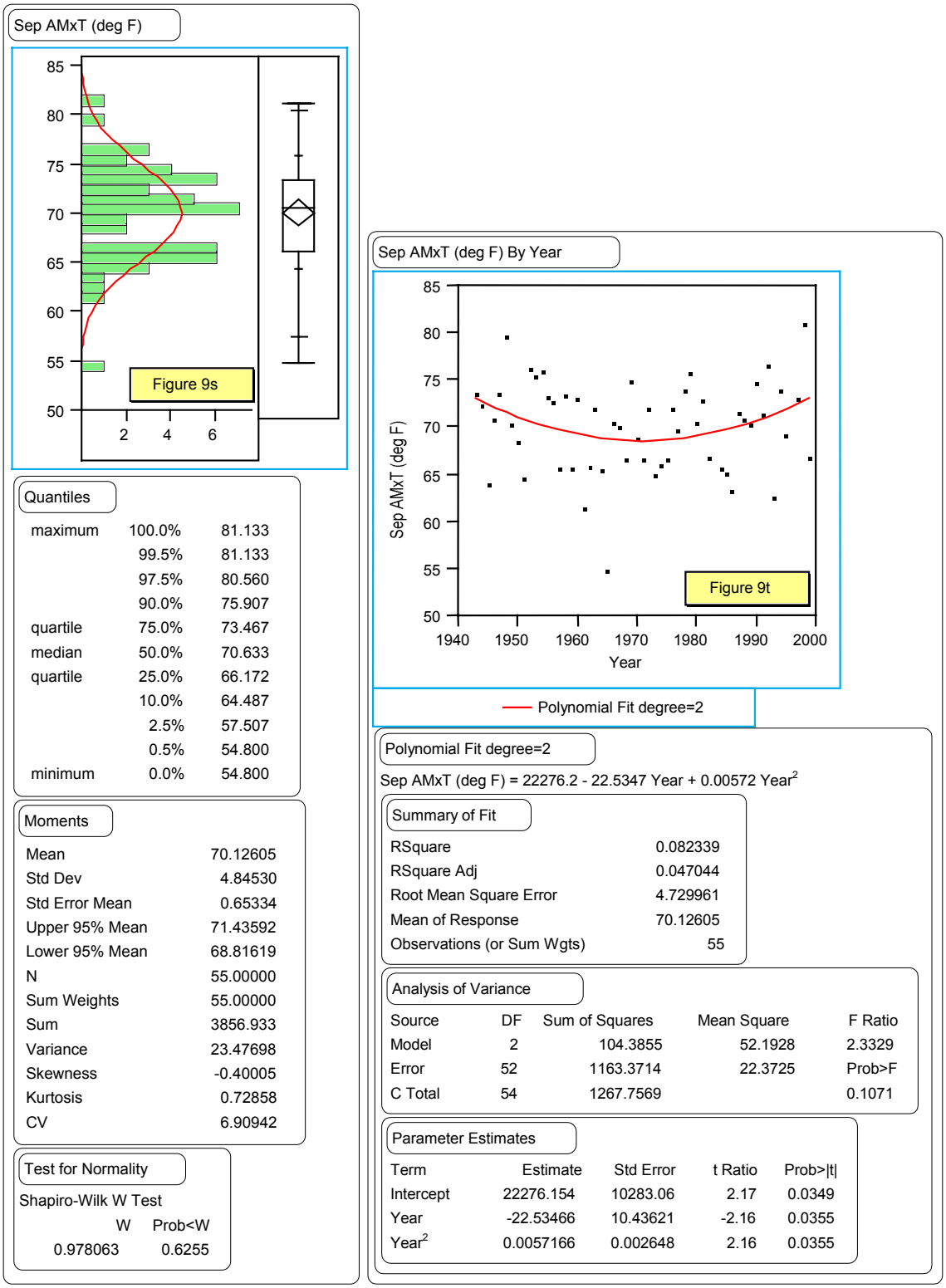
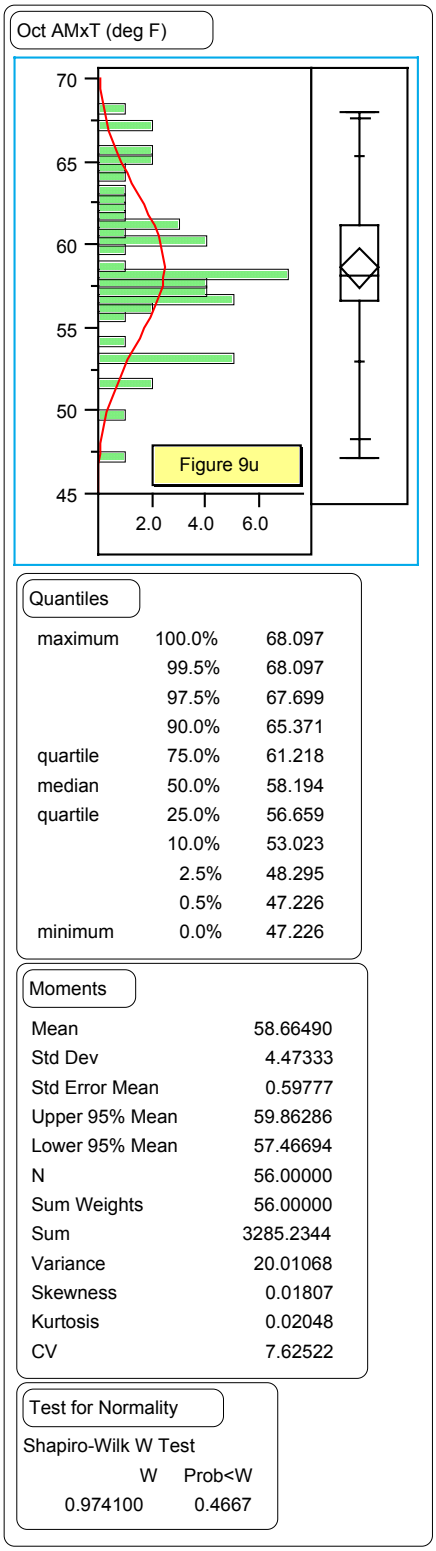


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for September (Figure 9s) and distribution through 1943-1999 (Figure 9t) for Deadwood, SD. On Figure 9s the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	68.097
	99.5%	68.097
	97.5%	67.699
	90.0%	65.371
quartile	75.0%	61.218
median	50.0%	58.194
quartile	25.0%	56.659
	10.0%	53.023
	2.5%	48.295
	0.5%	47.226
minimum	0.0%	47.226

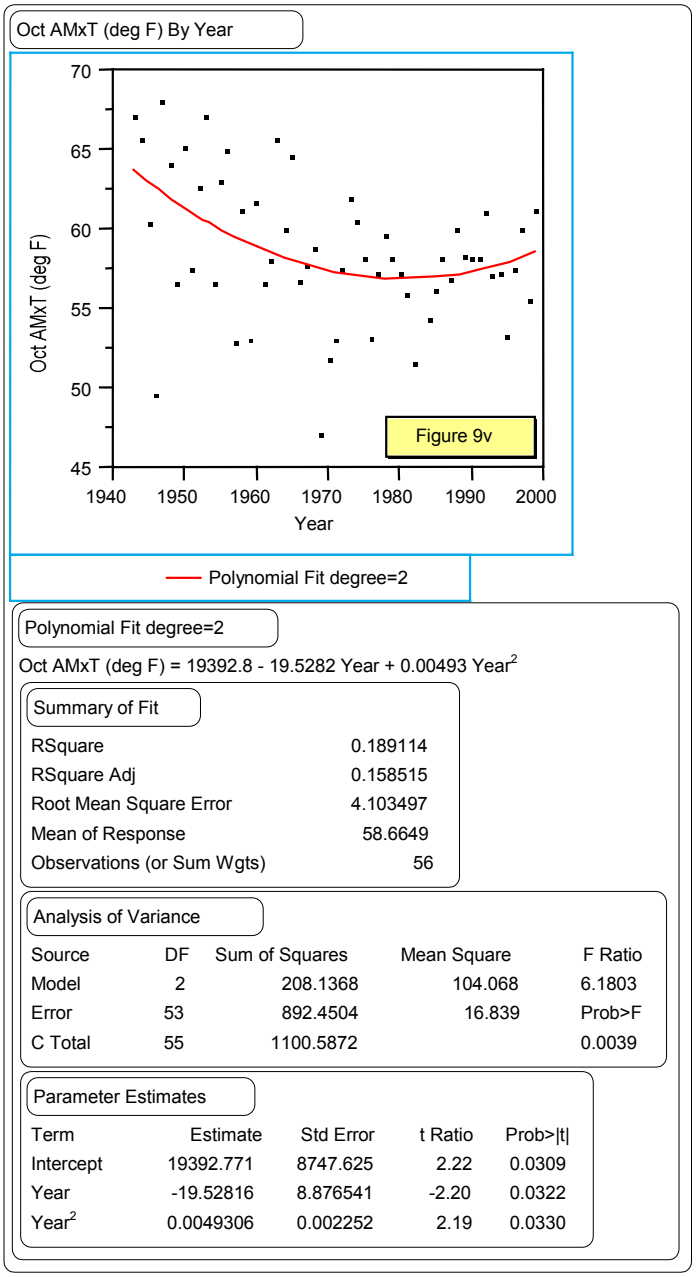
Moments

Mean	58.66490
Std Dev	4.47333
Std Error Mean	0.59777
Upper 95% Mean	59.86286
Lower 95% Mean	57.46694
N	56.00000
Sum Weights	56.00000
Sum	3285.2344
Variance	20.01068
Skewness	0.01807
Kurtosis	0.02048
CV	7.62522

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.974100	0.4667



Polynomial Fit degree=2

Oct AMxT (deg F) = 19392.8 - 19.5282 Year + 0.00493 Year^2

Summary of Fit

RSquare	0.189114
RSquare Adj	0.158515
Root Mean Square Error	4.103497
Mean of Response	58.6649
Observations (or Sum Wgts)	56

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	208.1368	104.068	6.1803
Error	53	892.4504	16.839	Prob>F
C Total	55	1100.5872		0.0039

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	19392.771	8747.625	2.22	0.0309
Year	-19.52816	8.876541	-2.20	0.0322
Year^2	0.0049306	0.002252	2.19	0.0330

Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for October (Figure 9u) and distribution through 1943-1999 (Figure 9v) for Deadwood, SD. On Figure 9u the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

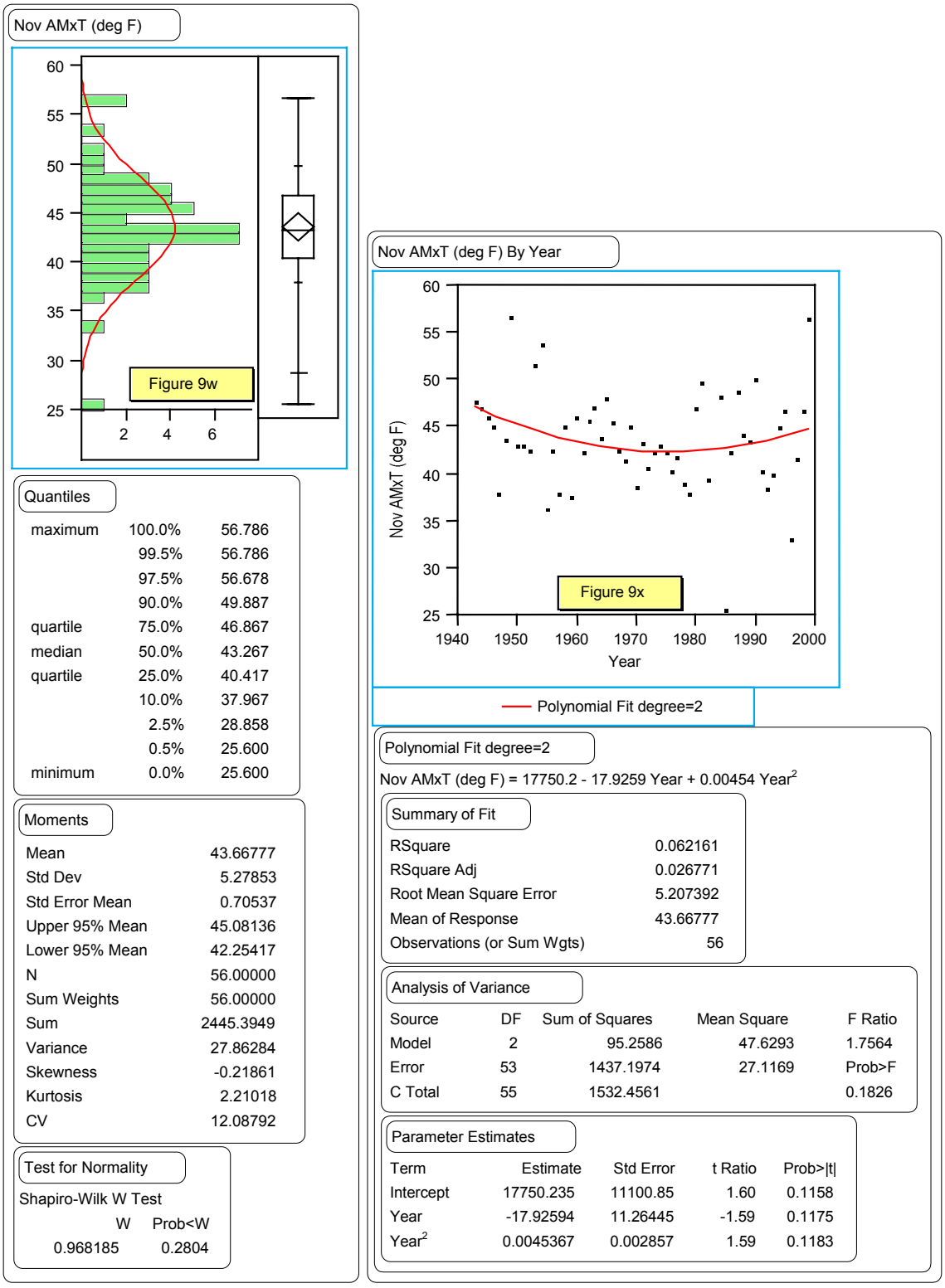


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for November (Figure 9w) and distribution through 1943-1999 (Figure 9x) for Deadwood, SD. On Figure 9w the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

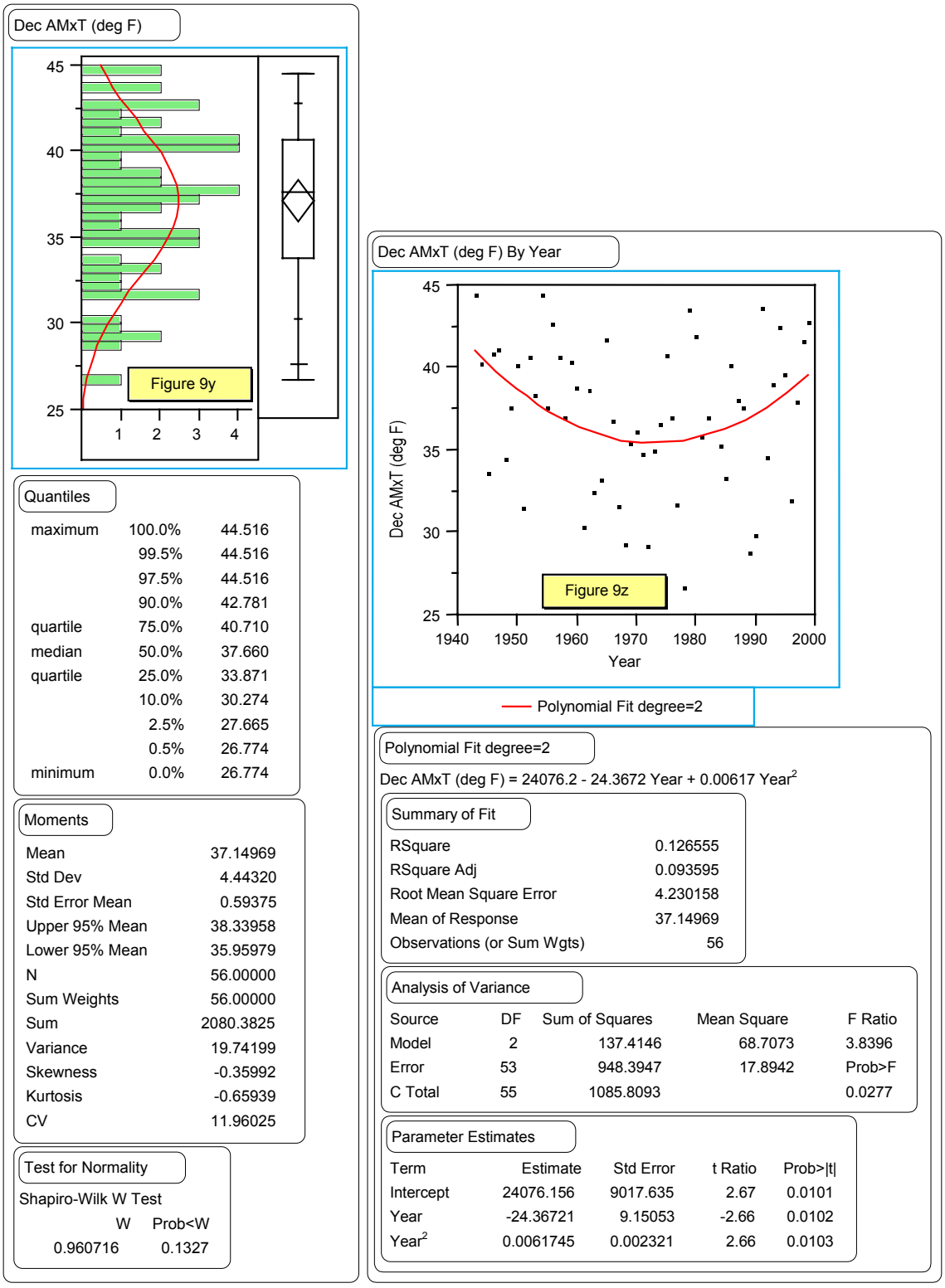


Figure 9. Monthly average maximum temperature (^{O}F), AMxT, histogram for December (Figure 9y) and distribution through 1943-1999 (Figure 9z) for Deadwood, SD. On Figure 9y the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

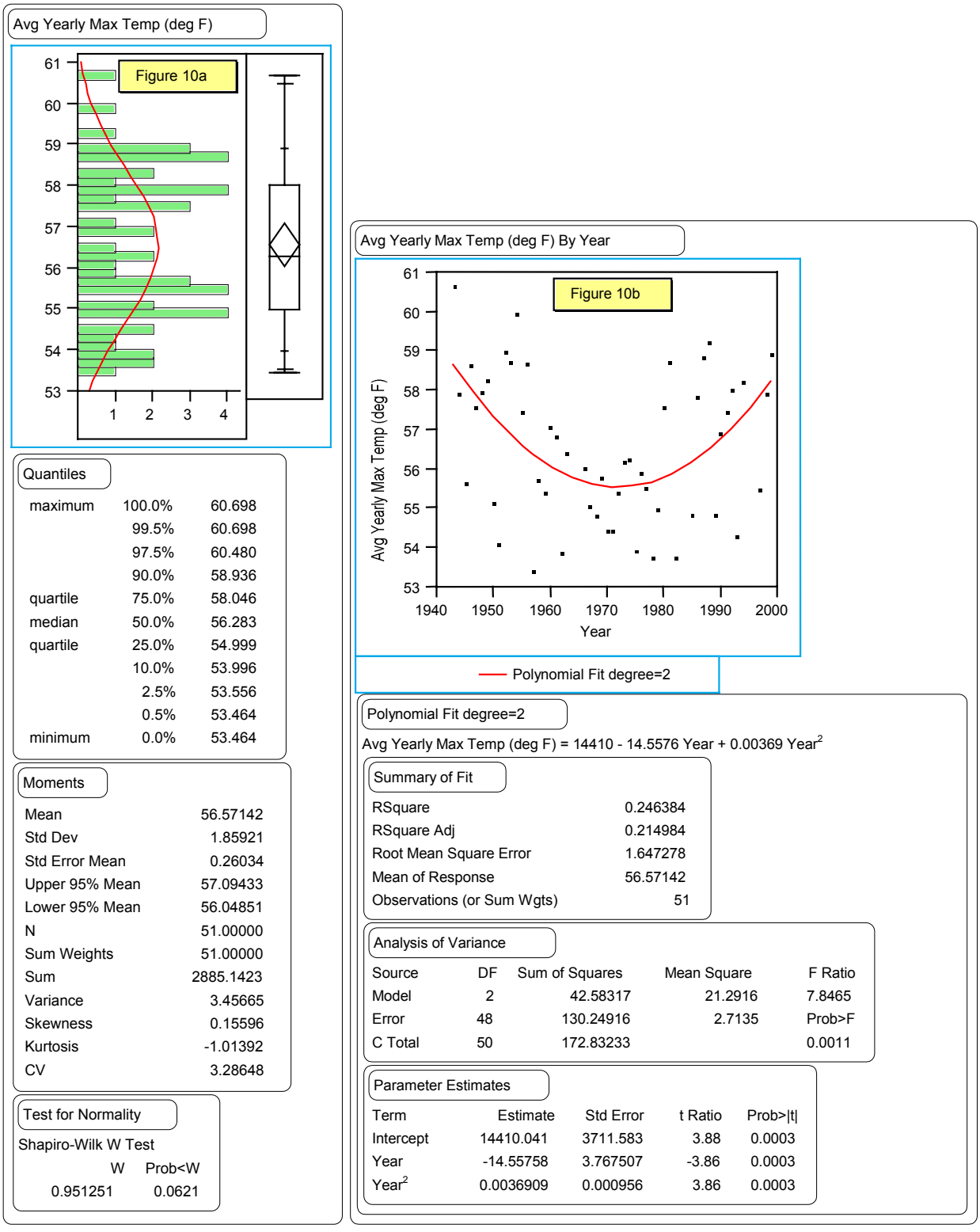
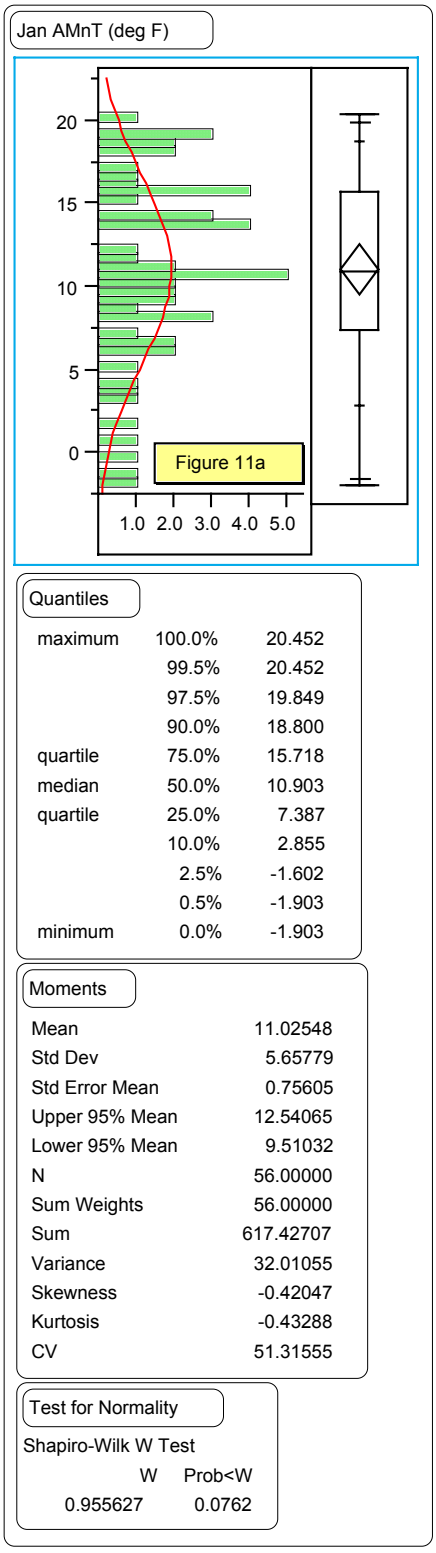


Figure 10. Average annual maximum temperature (^{O}F) histogram (Figure 10a) and as function of year (Figure 10b) for Deadwood, SD (1943-1999). On Figure 10a the Y axis = average yearly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



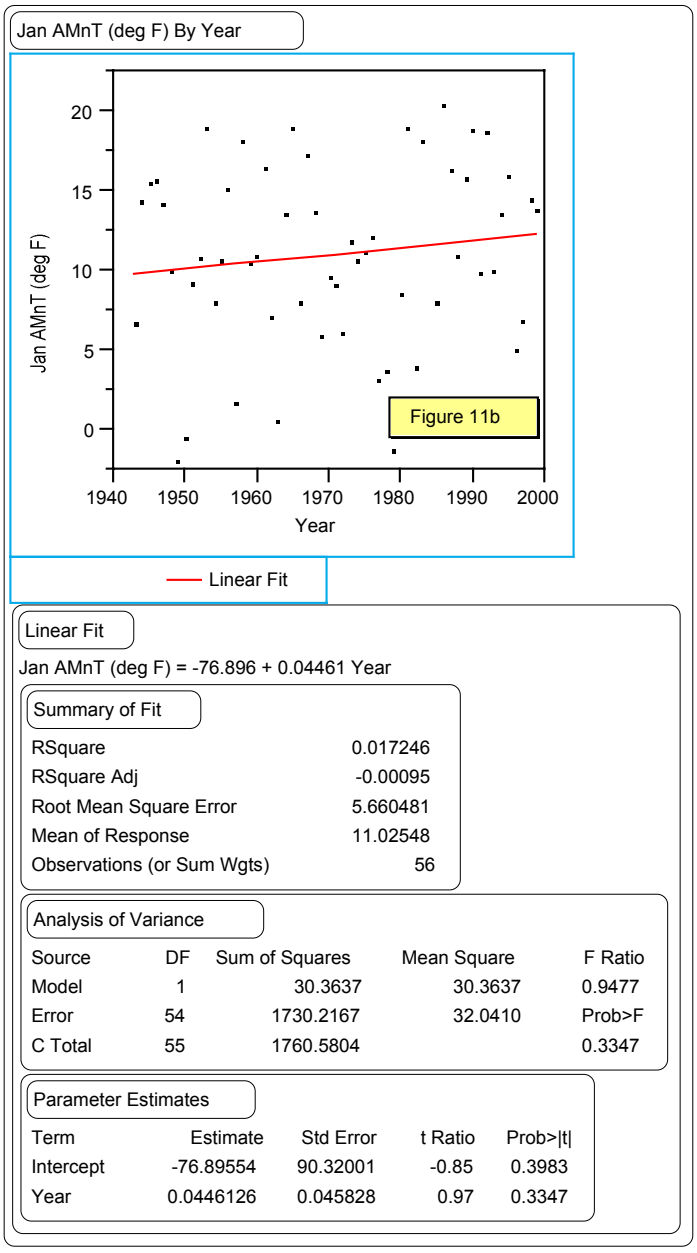


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for January (Figure 11a) and distribution through 1943-1999 (Figure 11b) for Deadwood, SD. On Figure 11a the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

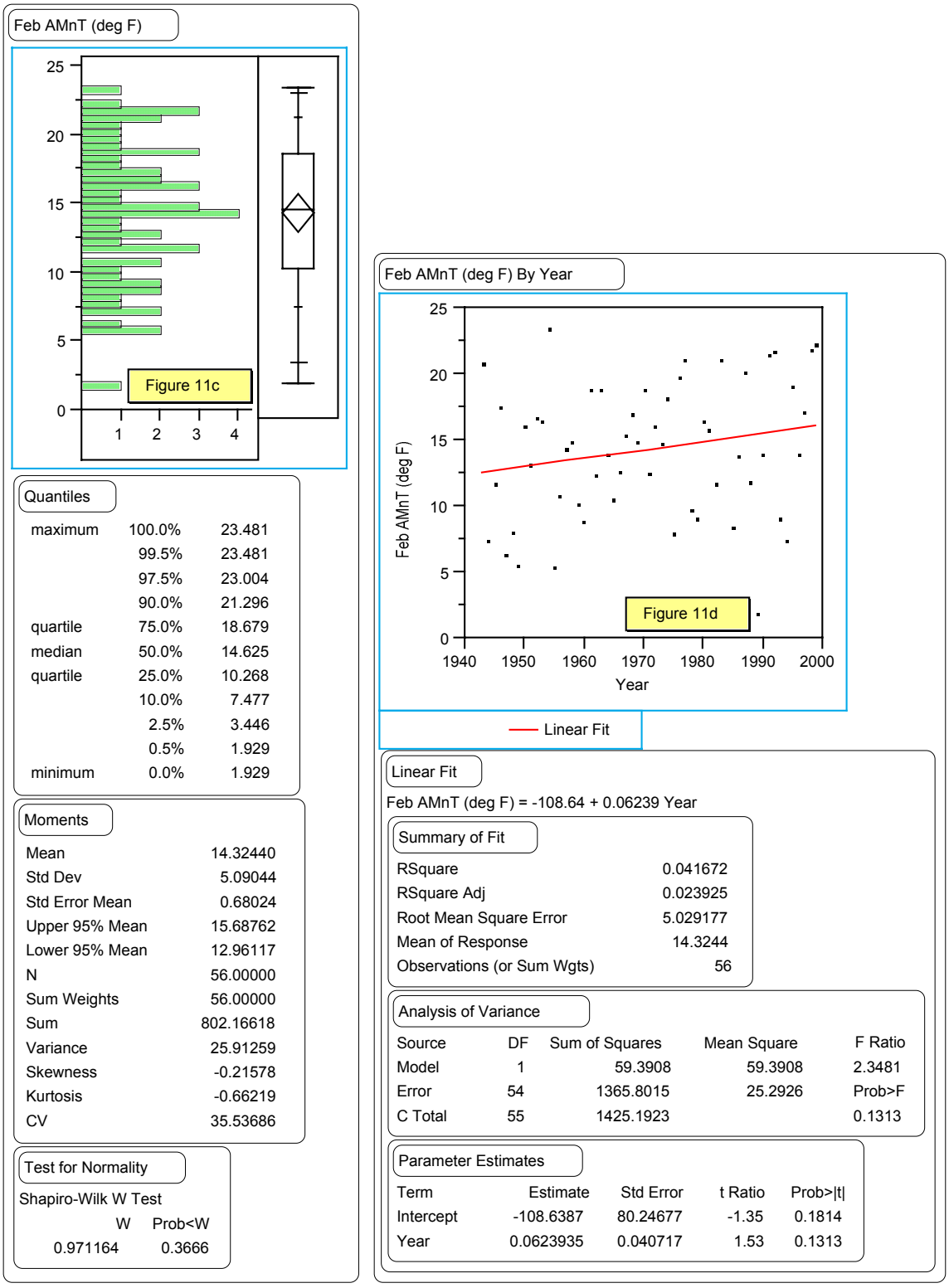
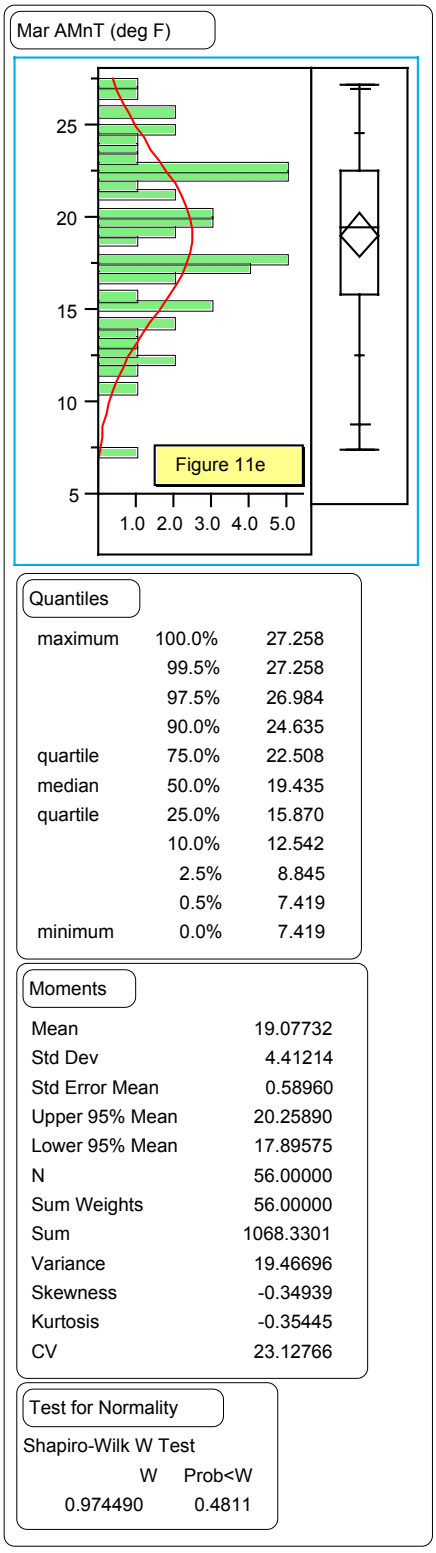


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for February (Figure 11c) and distribution through 1943-1999 (Figure 11d) for Deadwood, SD. On Figure 11c the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	27.258
	99.5%	27.258
	97.5%	26.984
	90.0%	24.635
quartile	75.0%	22.508
median	50.0%	19.435
quartile	25.0%	15.870
	10.0%	12.542
	2.5%	8.845
	0.5%	7.419
minimum	0.0%	7.419

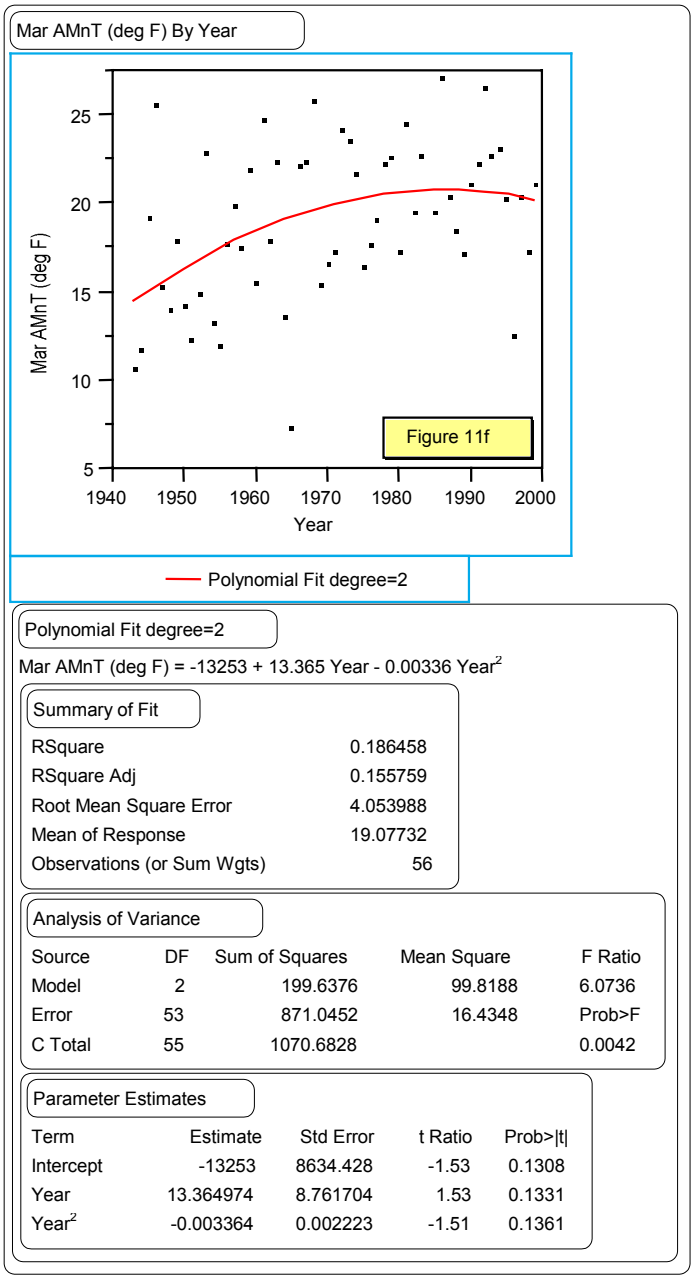
Moments

Mean	19.07732
Std Dev	4.41214
Std Error Mean	0.58960
Upper 95% Mean	20.25890
Lower 95% Mean	17.89575
N	56.00000
Sum Weights	56.00000
Sum	1068.3301
Variance	19.46696
Skewness	-0.34939
Kurtosis	-0.35445
CV	23.12766

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.974490	0.4811



Polynomial Fit degree=2

Mar AMnT (deg F) = -13253 + 13.365 Year - 0.00336 Year^2

Summary of Fit

RSquare	0.186458
RSquare Adj	0.155759
Root Mean Square Error	4.053988
Mean of Response	19.07732
Observations (or Sum Wgts)	56

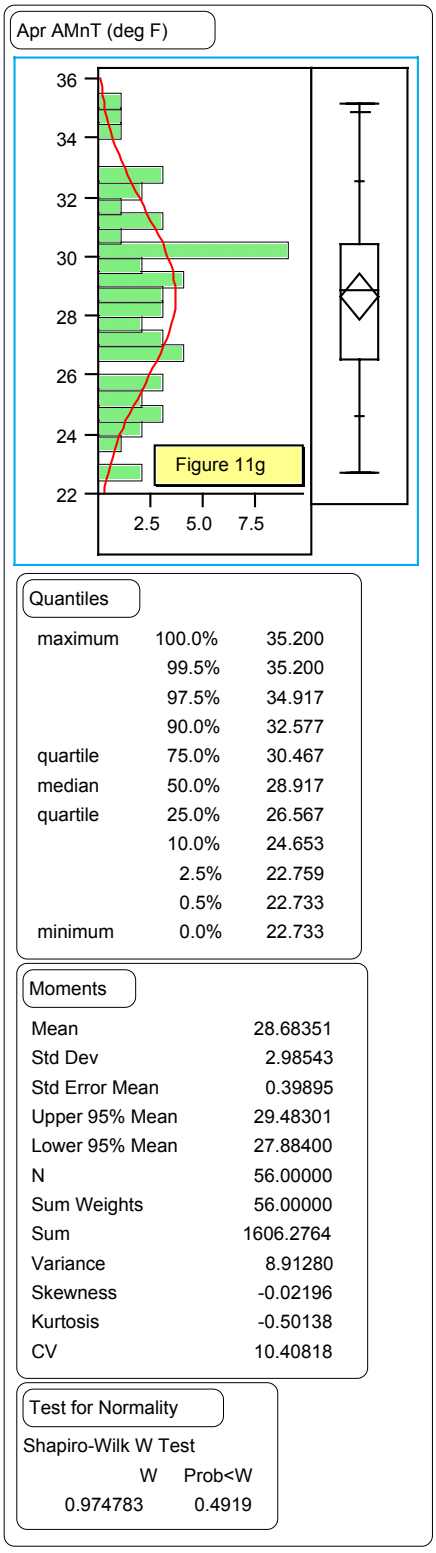
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	199.6376	99.8188	6.0736
Error	53	871.0452	16.4348	Prob>F
C Total	55	1070.6828		0.0042

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-13253	8634.428	-1.53	0.1308
Year	13.364974	8.761704	1.53	0.1331
Year^2	-0.003364	0.002223	-1.51	0.1361

Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for March (Figure 11e) and distribution through 1943-1999 (Figure 11f) for Deadwood, SD. On Figure 11e the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



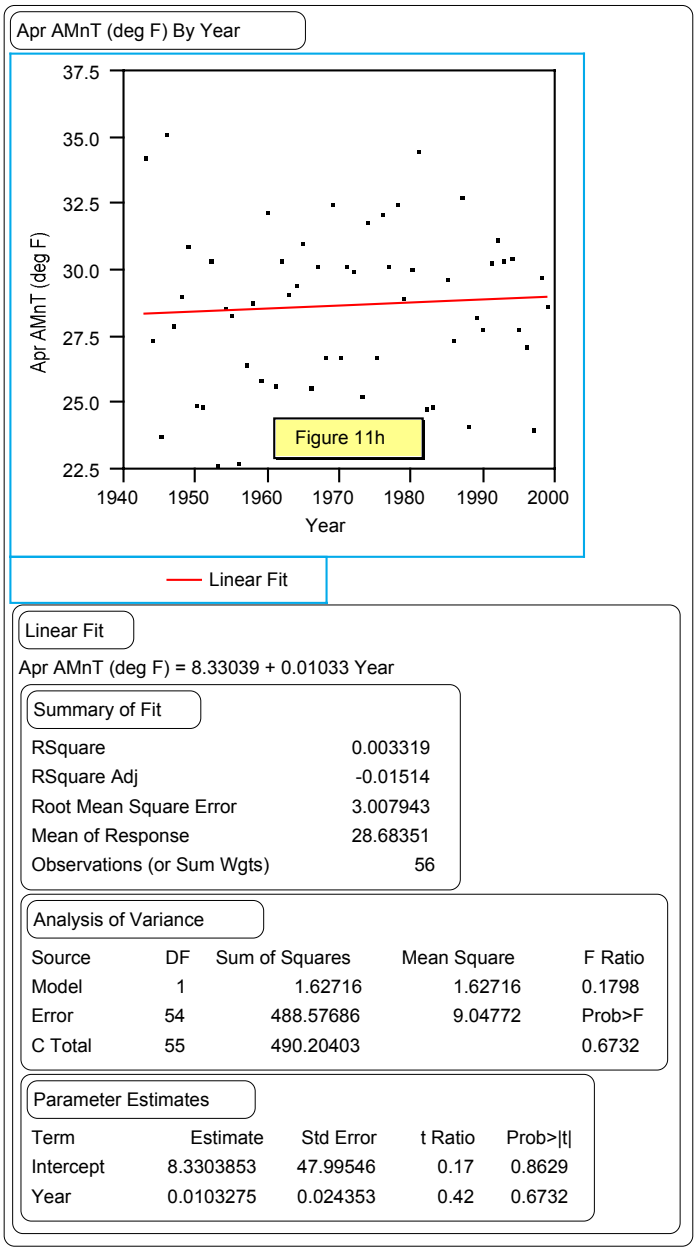


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for April (Figure 11g) and distribution through 1943-1999 (Figure 11h) for Deadwood, SD. On Figure 11g the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

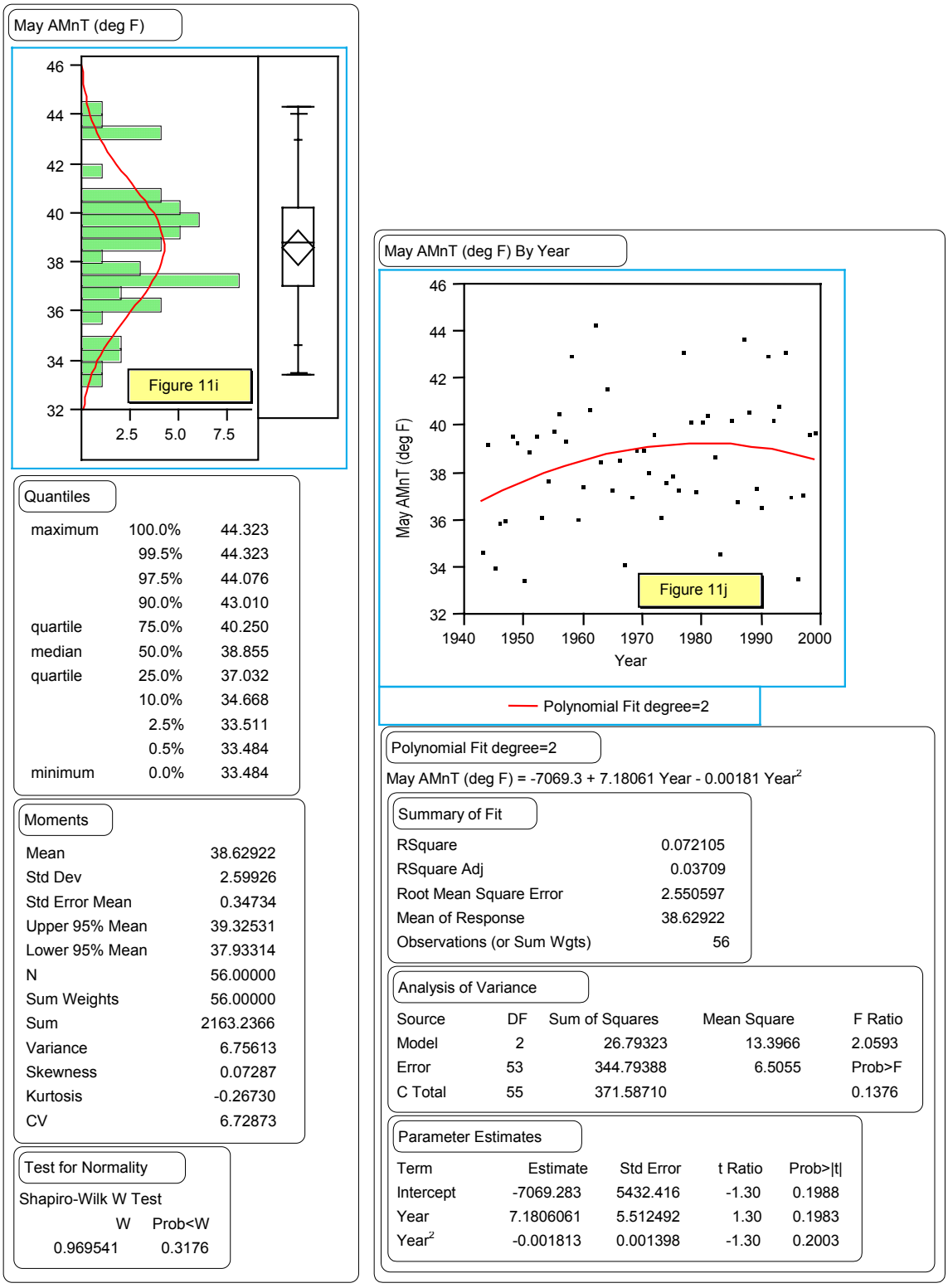
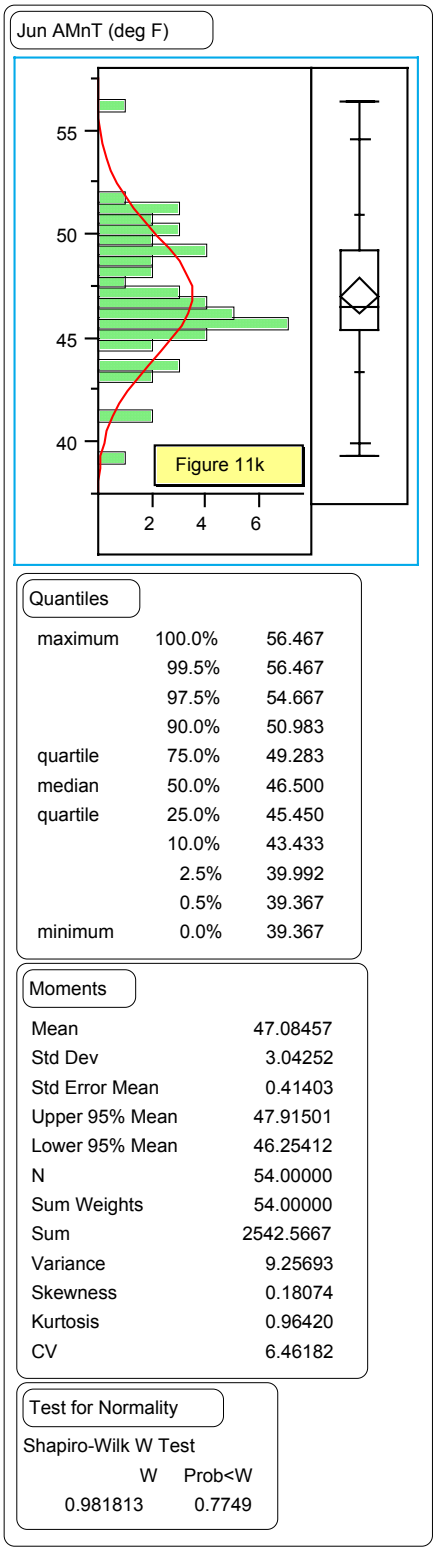


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for May (Figure 11i) and distribution through 1943-1999 (Figure 11j) for Deadwood, SD. On Figure 11i the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



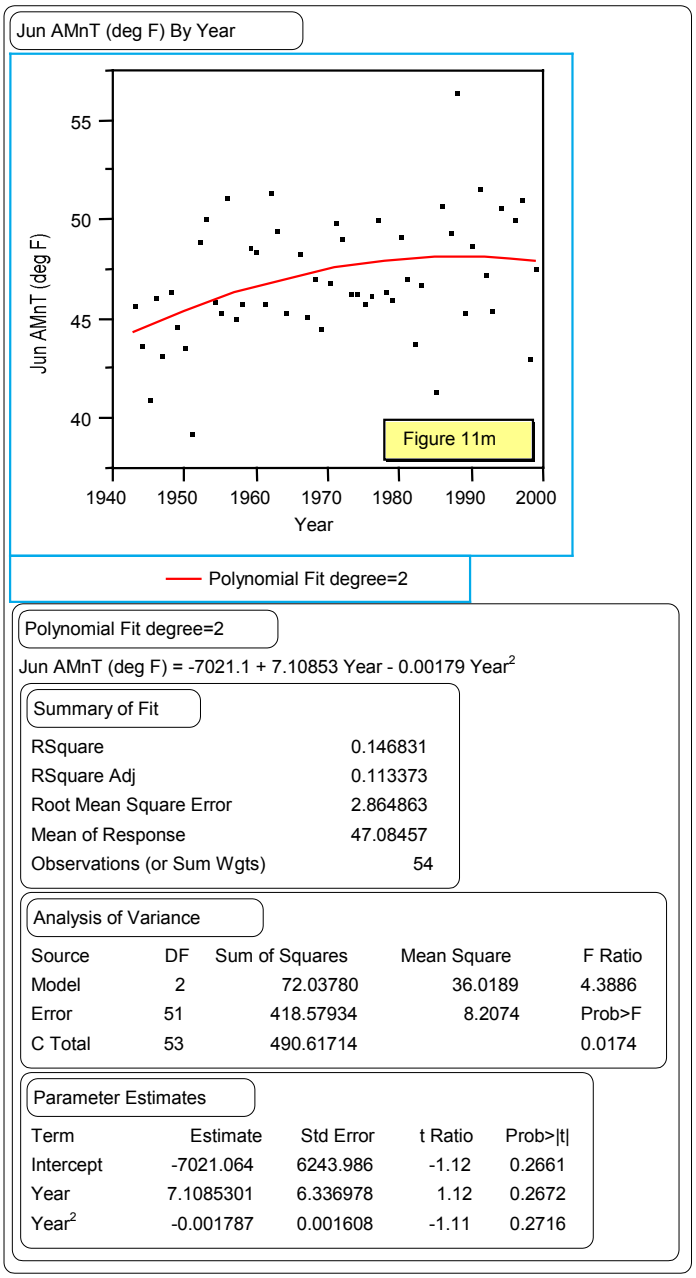
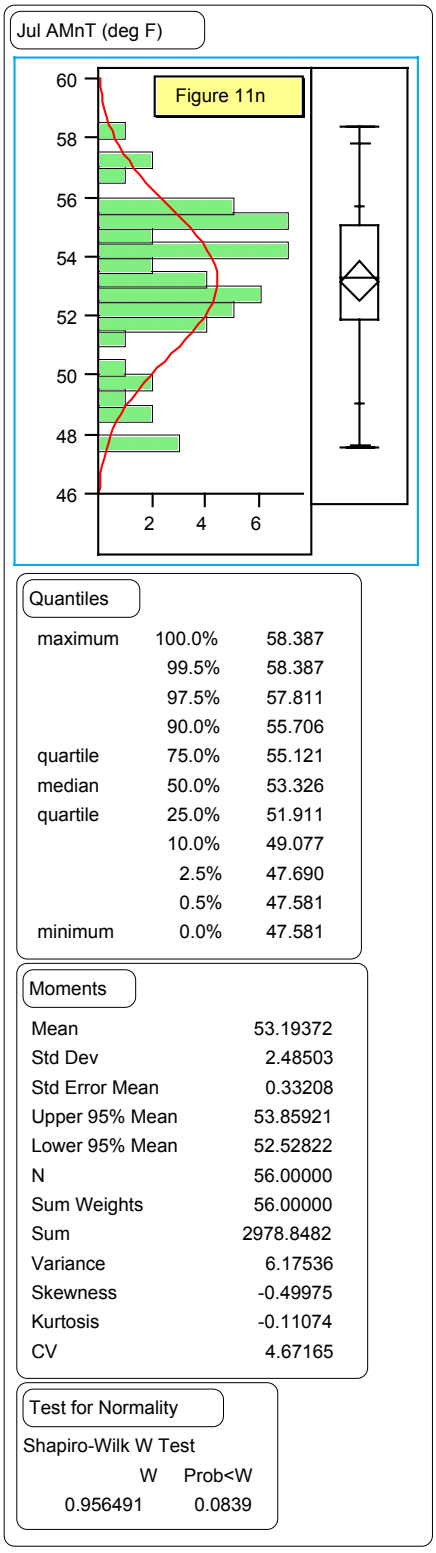


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for June (Figure 11k) and distribution through 1943-1999 (Figure 11m) for Deadwood, SD. On Figure 11k the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



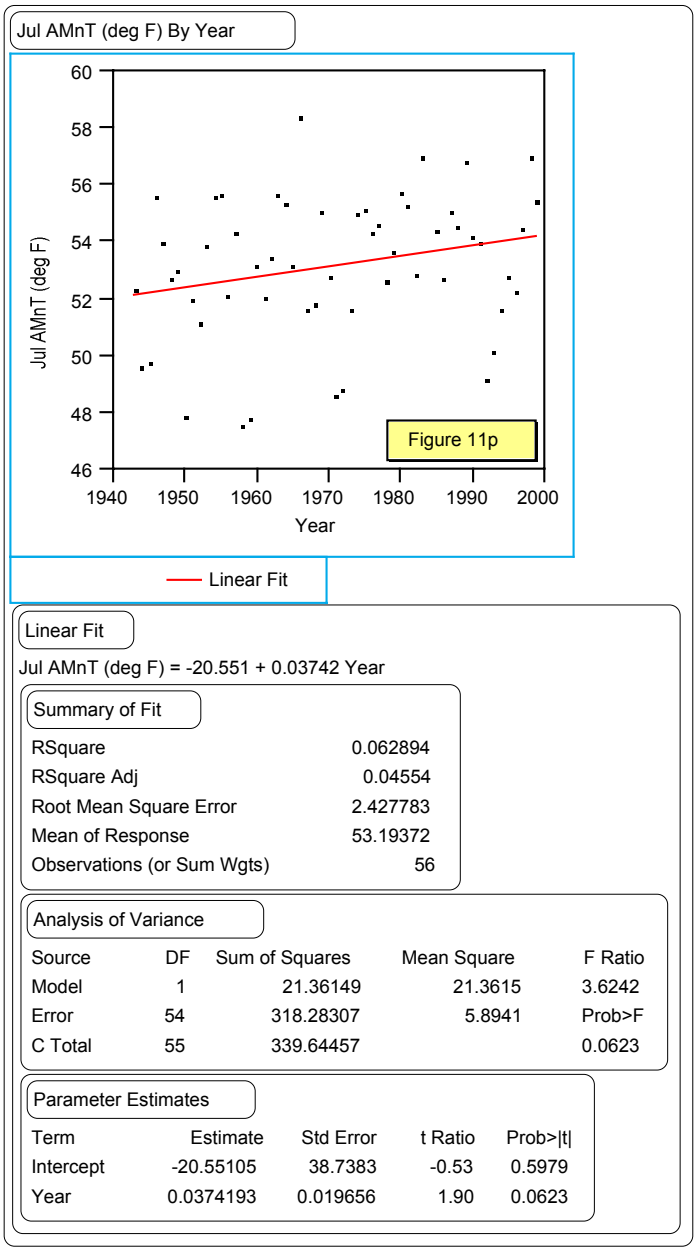
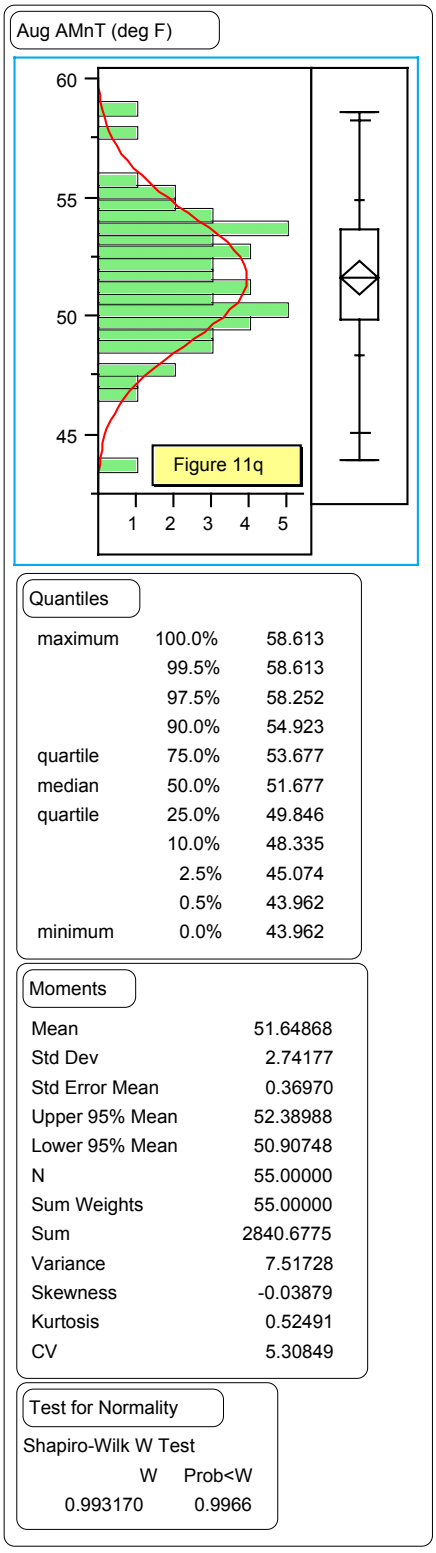


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for July (Figure 11n) and distribution through 1943-1999 (Figure 11p) for Deadwood, SD. On Figure 11n the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



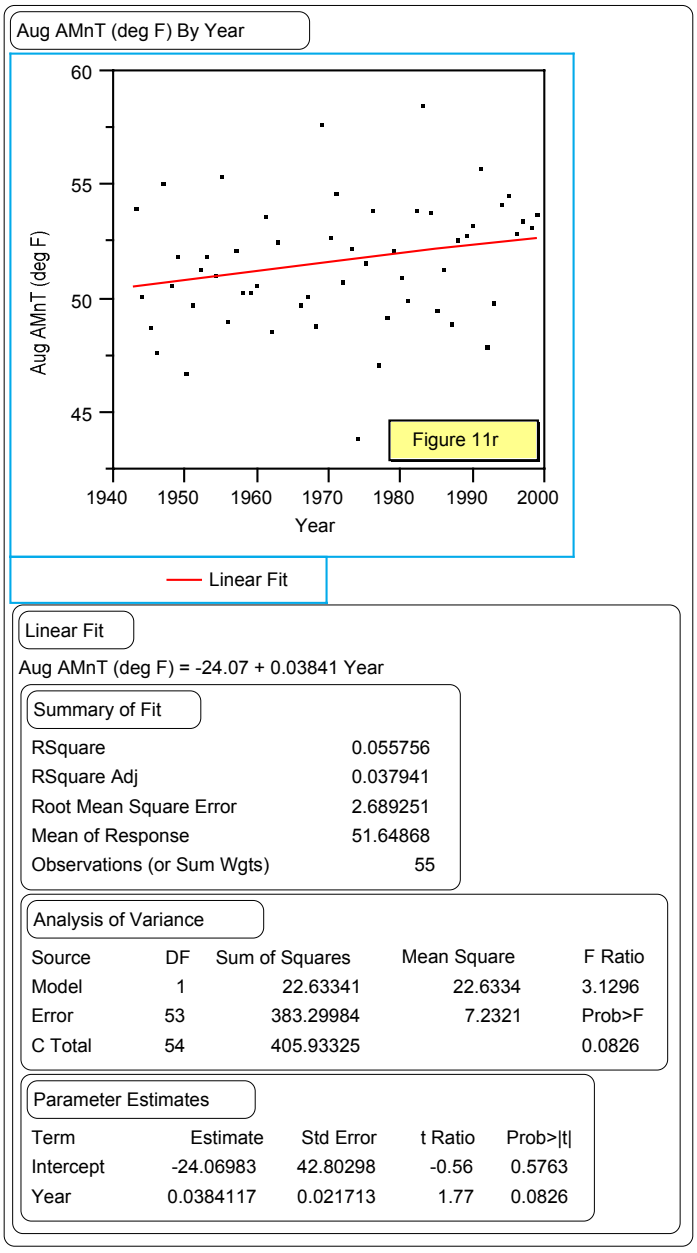
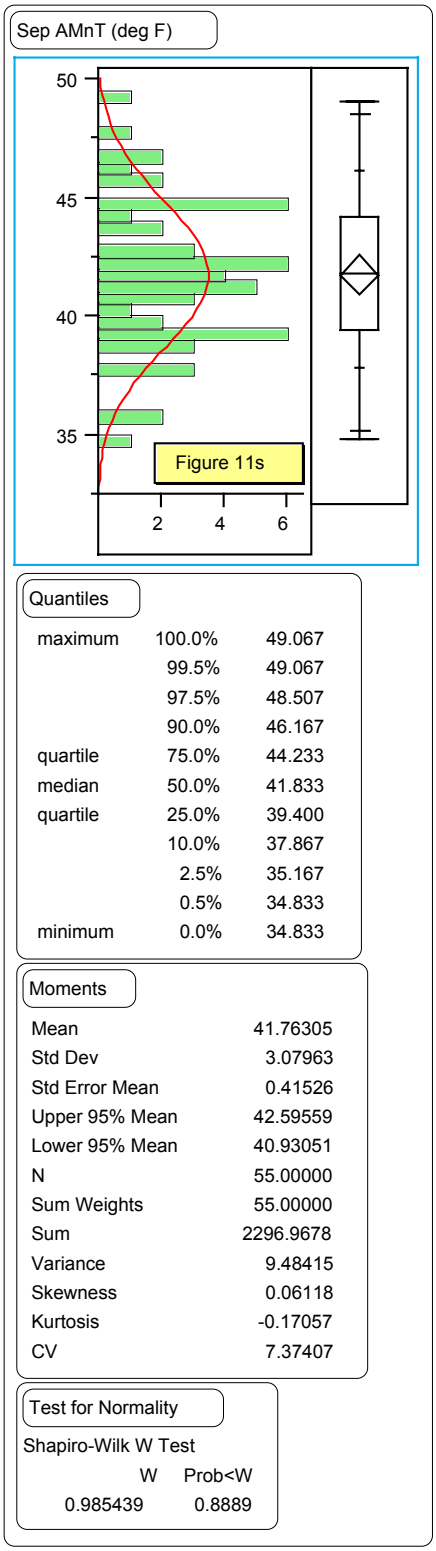


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for August (Figure 11q) and distribution through 1943-1999 (Figure 11r) for Deadwood, SD. On Figure 11q the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



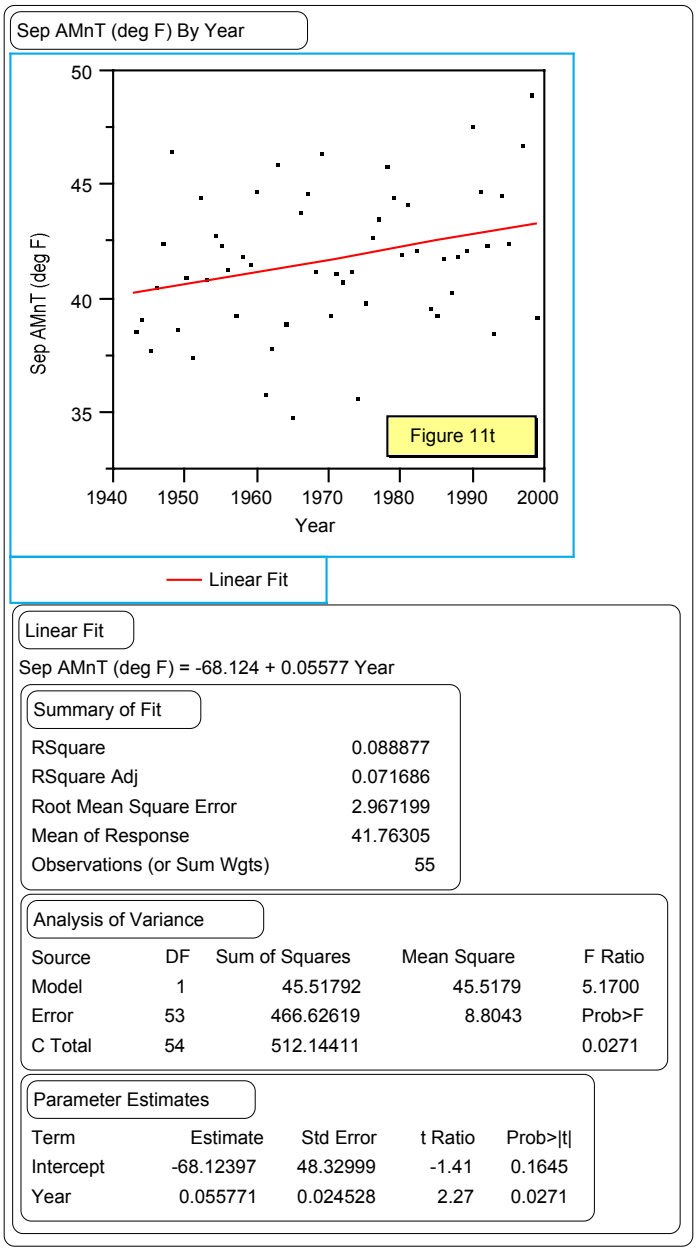
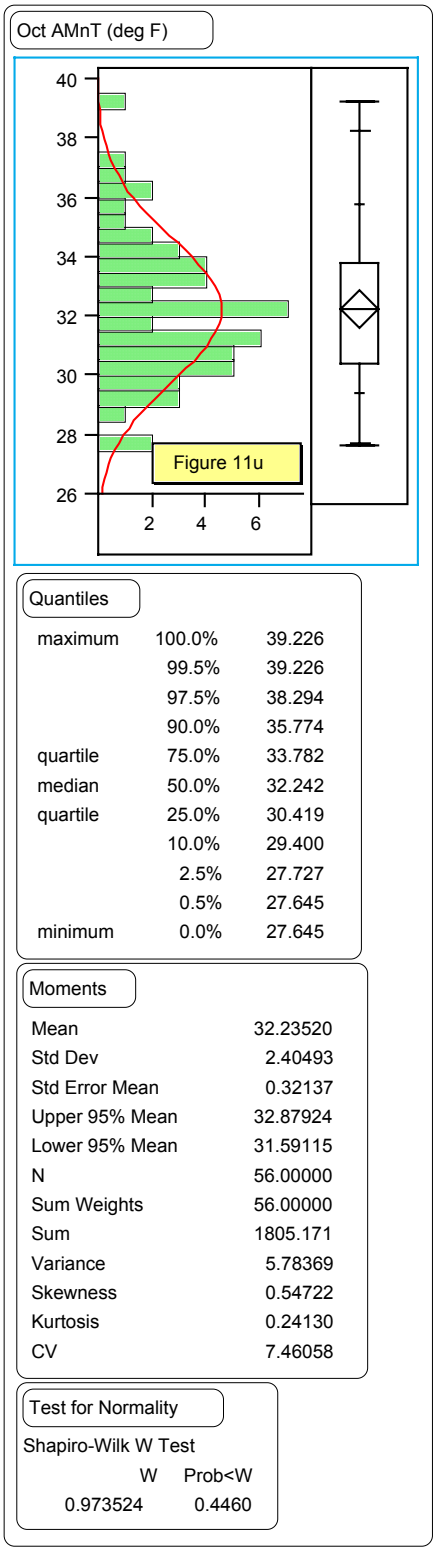


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for September (Figure 11s) and distribution through 1943-1999 (Figure 11t) for Deadwood, SD. On Figure 11s the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



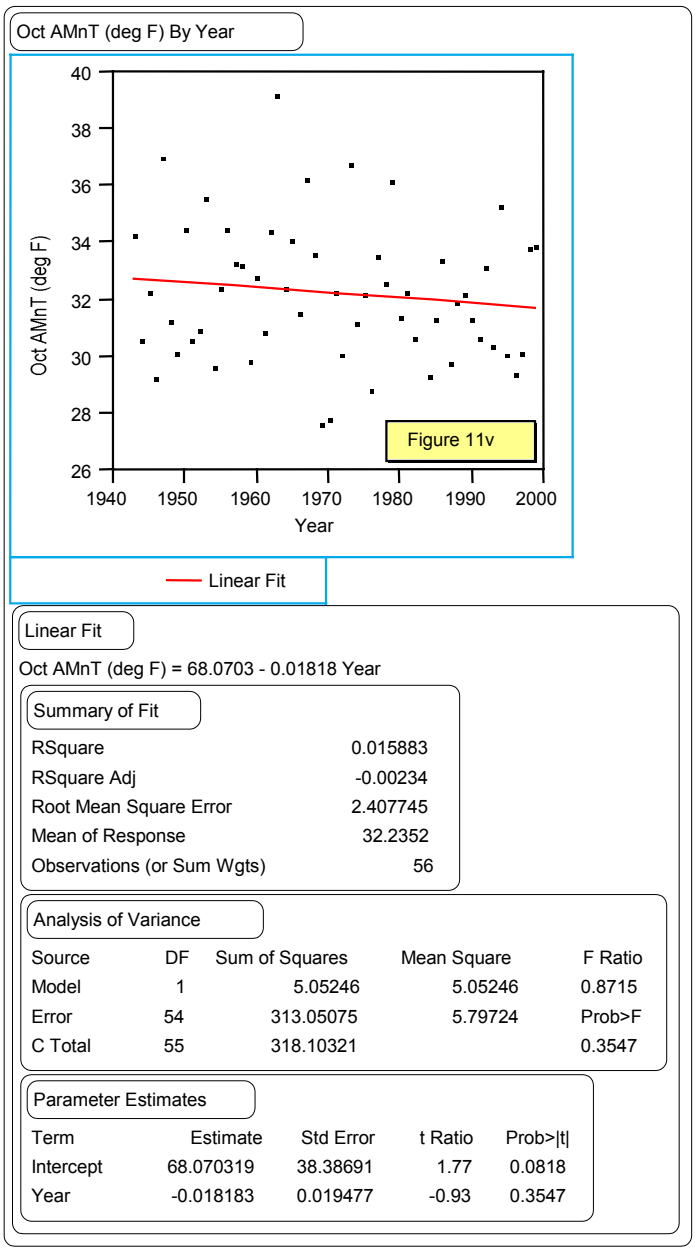
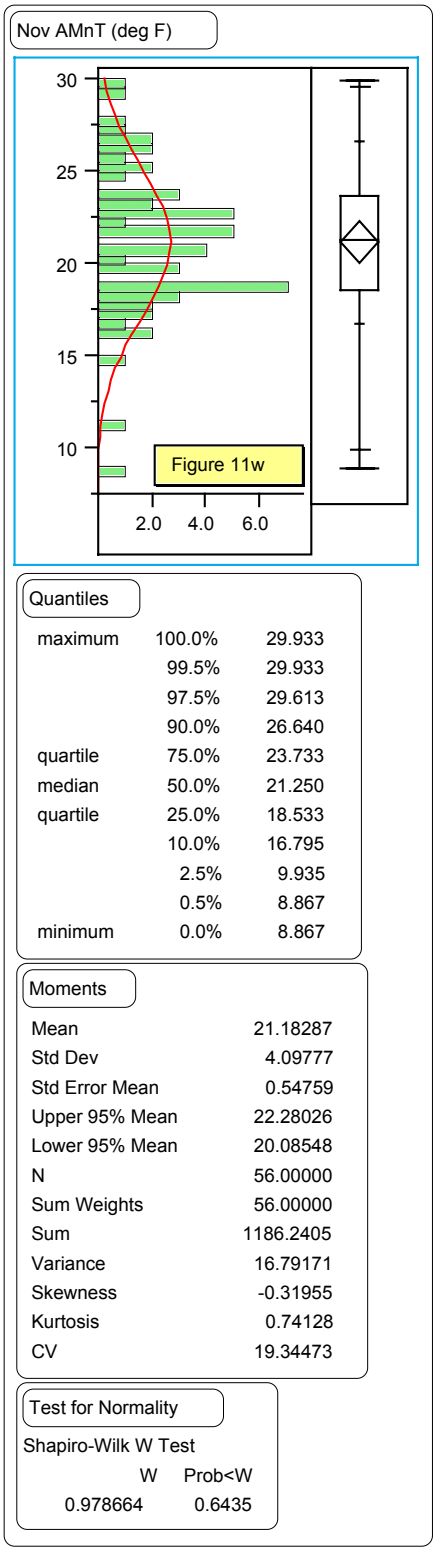


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for October (Figure 11u) and distribution through 1943-1999 (Figure 11v) for Deadwood, SD. On Figure 11u the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



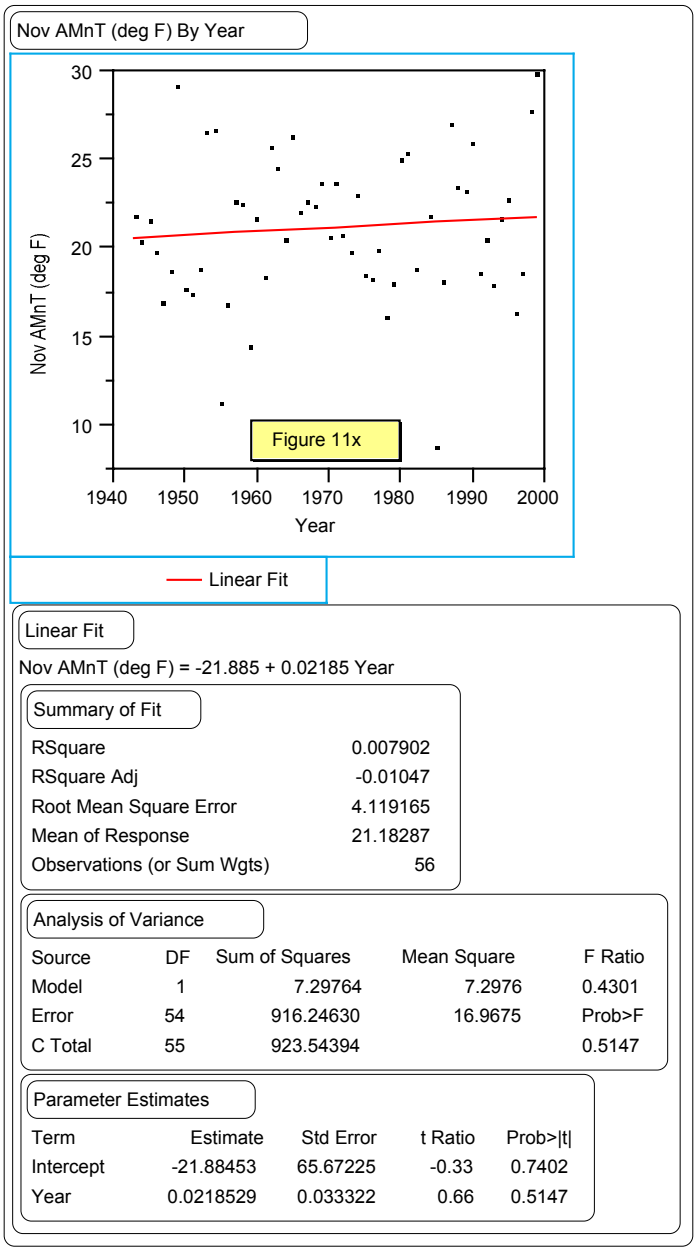
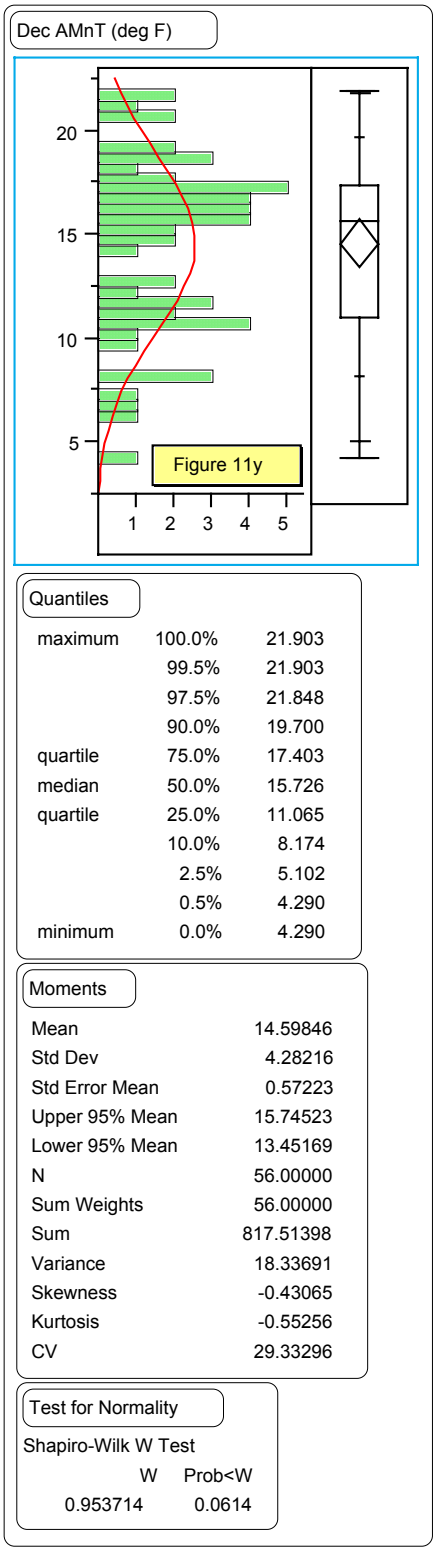


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for November (Figure 11w) and distribution through 1943-1999 (Figure 11x) for Deadwood, SD. On Figure 11w the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



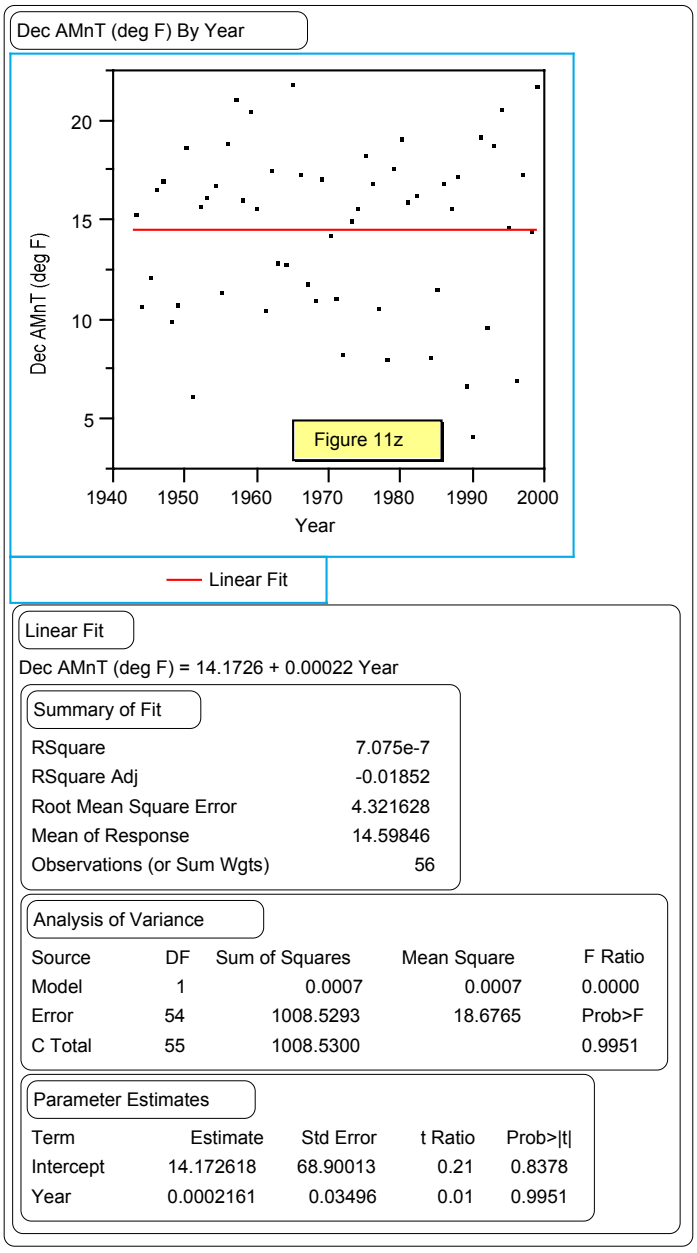


Figure 11. Monthly average minimum temperature (^{O}F), AMnT, histogram for December (Figure 11y) and distribution through 1943-1999 (Figure 11z) for Deadwood, SD. On Figure 11y the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

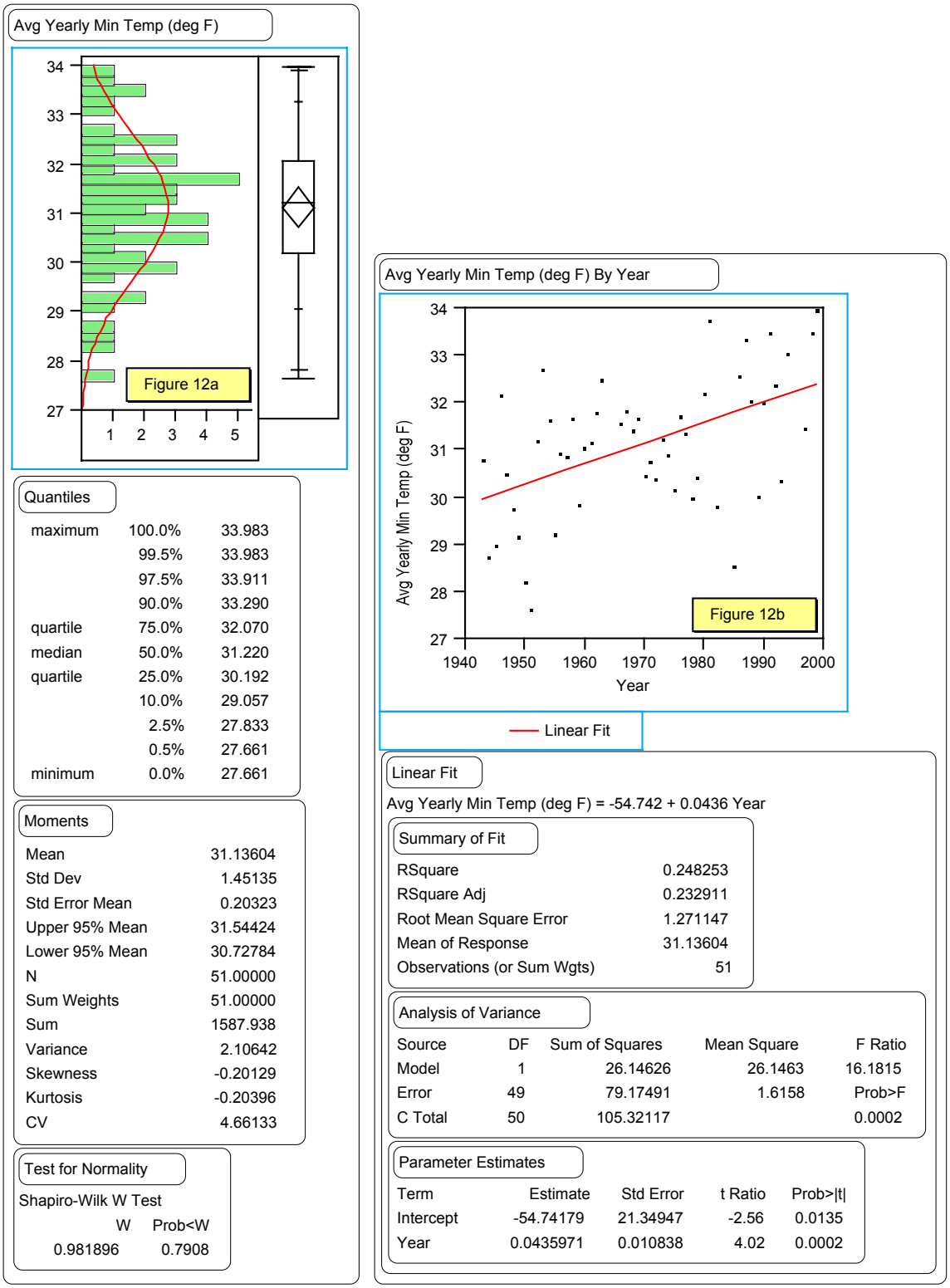


Figure 12. Annual average minimum temperature (^{O}F) histogram (Figure 12a) and as function of year (Figure 12b) for Deadwood, SD (1943-1999). On Figure 12a the Y axis = average yearly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

Average Monthly Temperatures (missing data caused differences in n values)
The distribution (histograms) of the monthly average temperatures (AMT) for each month of the year (Figures 13a, 13c, 13e, 13g, 13i, 13k, 13n, 13q, 13s, 13u, 13w, and 13y) and as a function of year (Figures 13b, 13d, 13f, 13h, 13j, 13m, 13p, 13r, 13t, 13v, 13x, and 13z) at Deadwood, SD (1943-1999) show interesting trends. Most months have normal distributions of AMT while December AMT (Figure 13y) does not have a normal distribution (p of W <0.05). July is nearly not normal with a W value of 0.07 (Figure 13n). The highest AMT was 73.1 ^{O}F during August 1983 and the lowest recorded AMT was 10.1 ^{O}F during January 1979. Ten months had no significant trend when AMT and year were compared. March had a significant positive linear trend (Figure 13f) while October had a significant curvilinear downward trend in AMT with year (Figure 13v). The month of June (Figure 13m) had a nearly significant positive linear trend of AMT with year (p = 0.06).

When examining the distribution of Deadwood, SD average annual temperatures for 1943-1999 the evidence of a bi-modal distribution is shown (Figures 14a and 14b). The yearly average temperatures during the 1970s were significantly cooler than at other times.

TEMPERATURE – Daily Information

For plant growth and survival at Deadwood, SD the temperature extremes, both highs and lows are very important. As a result, the daily temperature record was studied.

Number of days/yr - cold extremes
The distribution (histograms) of the number of days/yr at critical cold temperature values of <40, <35, <30, <25, <20, <10, <0, <-10, and <-20 ^{O}F (Figures 15a, 15c, 15e, 15g, 15i, 15k, 15n, 15q, and 15s, respectively) and as a function of year (Figures 15b, 15d, 15f, 15h, 15j, 15m, 15p, 15r, and 15t, respectively) at Deadwood, SD (1943-1999) show interesting trends. Most cold temperature histograms had normal distributions for the number of days/yr at critical ranges while the < -10 and < -20 ^{O}F, Figures 15q and 15s, respectively, did not have normal distributions (p of W <0.05) during 1943-1999. The critical cold temperature ranges of <40, <35, <20, and <10 ^{O}F had significant downward linear trends with year (Figures 15b, 15d, 15j, and 15m). The <30 and <25 ^{O}F temperature range had significant curvilinear trends (bimodal) with low points during the 1970s and 1980s (Figures 15f and 15h, respectively). The coldest temperature ranges studied (<0, <-10, and <-20 ^{O}F) had no significant trend with year (Figures 15p, 15r, and 15t, respectively). The average number of critical cold temperature days for all temperature levels per month and yearly totals are shown in Table 1.

Number of days/yr - warm extremes
The distribution (histograms) of the number of days/yr at critical warm temperature values of >65, >70, >75, >80, >85, and >90 ^{O}F (Figures 16a, 16c, 16e, 16g, 16i, and 16k) and as a function of year (Figures 16b, 16d, 16f, 16h, 16j, and 16m) at Deadwood, SD (1943-1999) show interesting trends. Three warm critical temperature ranges (>70, >75, and >80 ^{O}F) had normal distributions of the number of days/yr (Figures 16c, 16e, and 16g, respectively) while >65, >85, and >90 ^{O}F did not have normal distributions (probability of W <0.05) during 1943-1999 (Figures 16a, 16i, and 16k, respectively). The critical warm temperature ranges all had curvilinear trends (bimodal) with low points during the 1970s and 1980s. All warm critical temperature ranges were significantly related to year except >70 and >75 ^{O}F (Figures 16d and 16f, respectively). The average number of warm critical temperature days for all temperature levels per month and yearly totals are shown in Table 2.

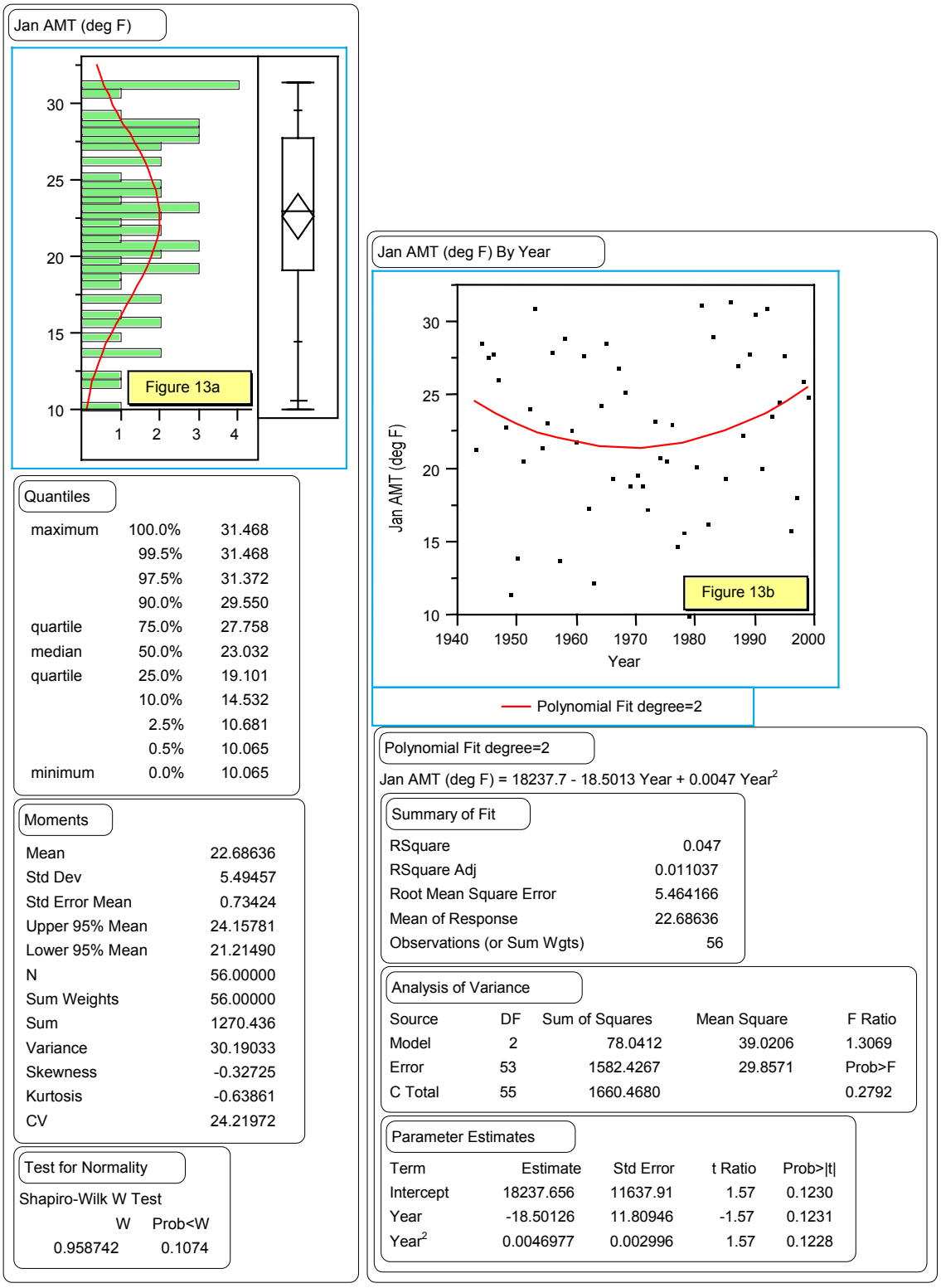


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for January (Figure 13a) and distribution through 1943-1999 (Figure 13b) for Deadwood, SD. On Figure 13a the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

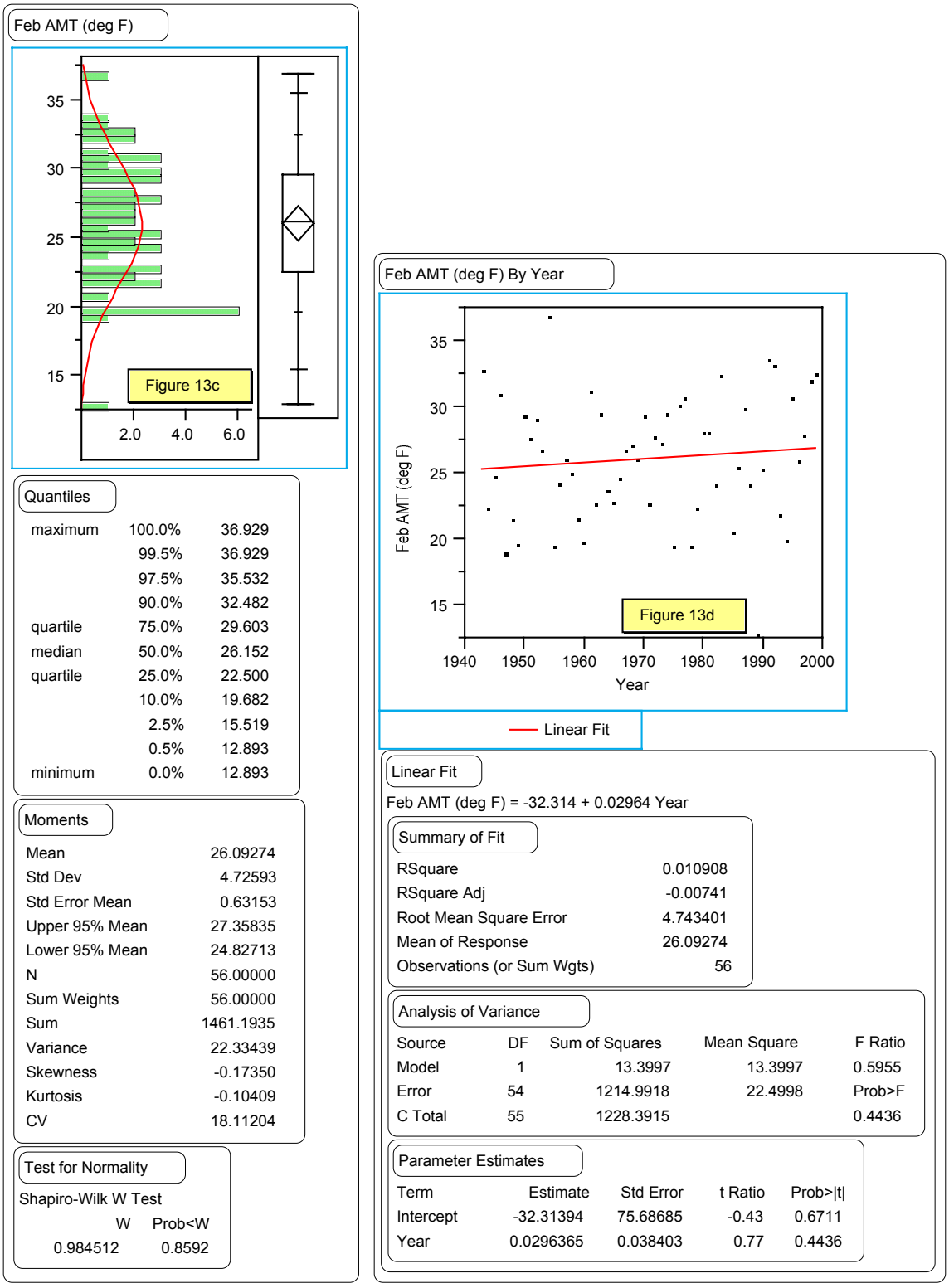
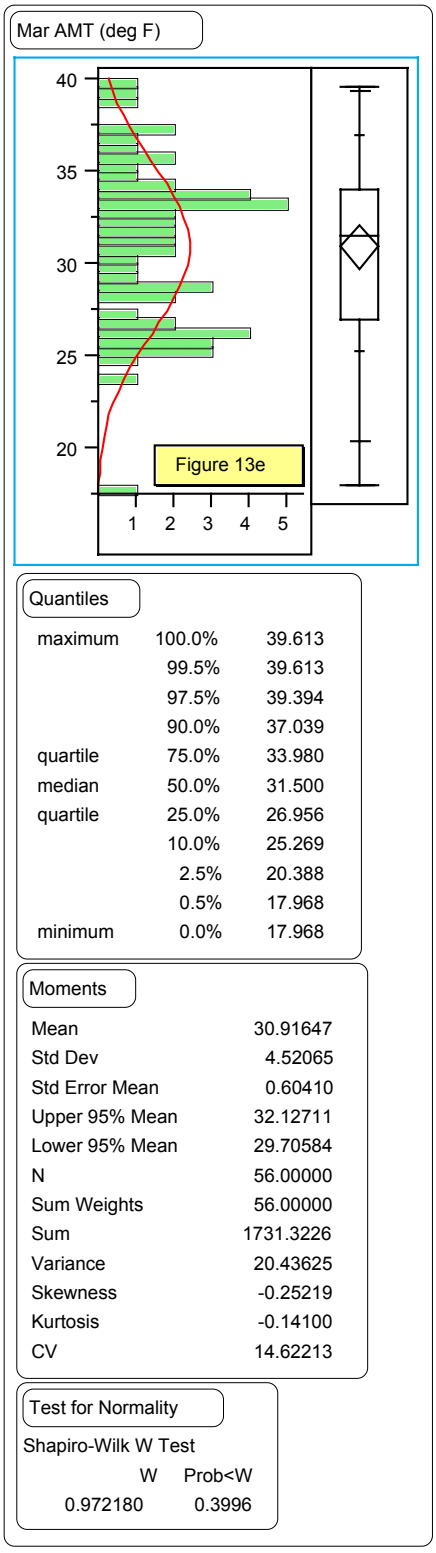


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for February (Figure 13c) and distribution through 1943-1999 (Figure 13d) for Deadwood, SD. On Figure 13c the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	39.613
	99.5%	39.613
	97.5%	39.394
	90.0%	37.039
quartile	75.0%	33.980
median	50.0%	31.500
quartile	25.0%	26.956
	10.0%	25.269
	2.5%	20.388
	0.5%	17.968
minimum	0.0%	17.968

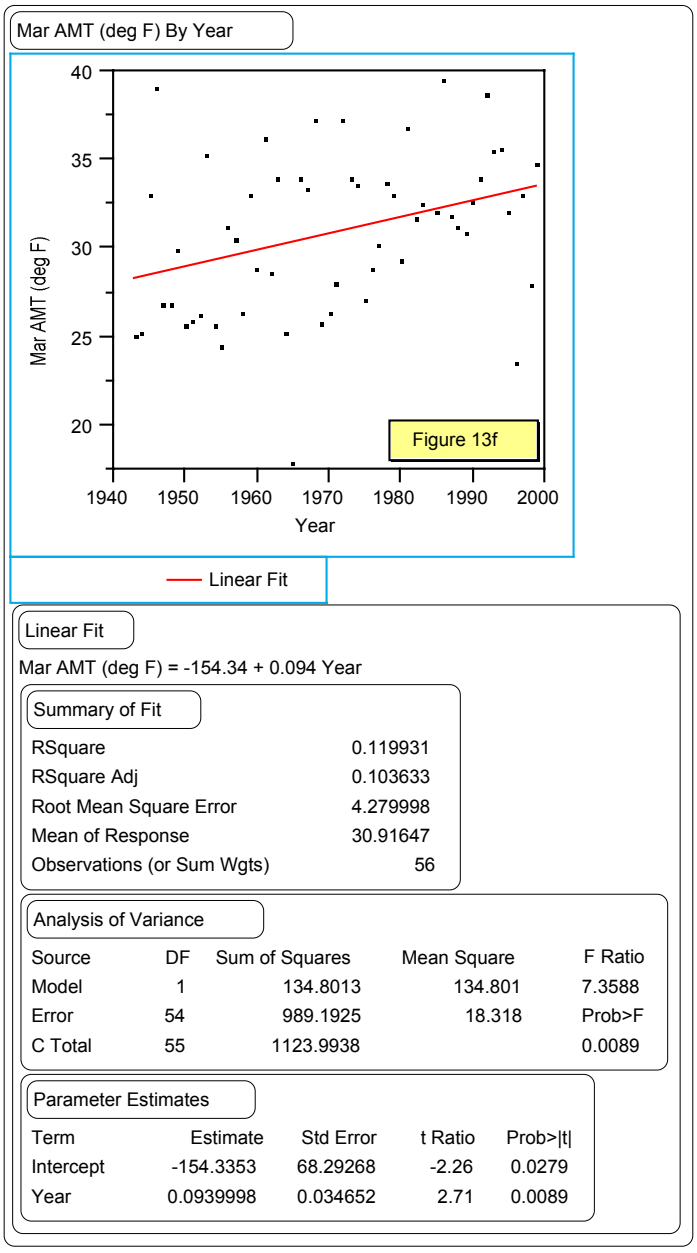
Moments

Mean	30.91647
Std Dev	4.52065
Std Error Mean	0.60410
Upper 95% Mean	32.12711
Lower 95% Mean	29.70584
N	56.00000
Sum Weights	56.00000
Sum	1731.3226
Variance	20.43625
Skewness	-0.25219
Kurtosis	-0.14100
CV	14.62213

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.972180	0.3996



Linear Fit

Mar AMT (deg F) = -154.34 + 0.094 Year

Summary of Fit

RSquare	0.119931
RSquare Adj	0.103633
Root Mean Square Error	4.279998
Mean of Response	30.91647
Observations (or Sum Wgts)	56

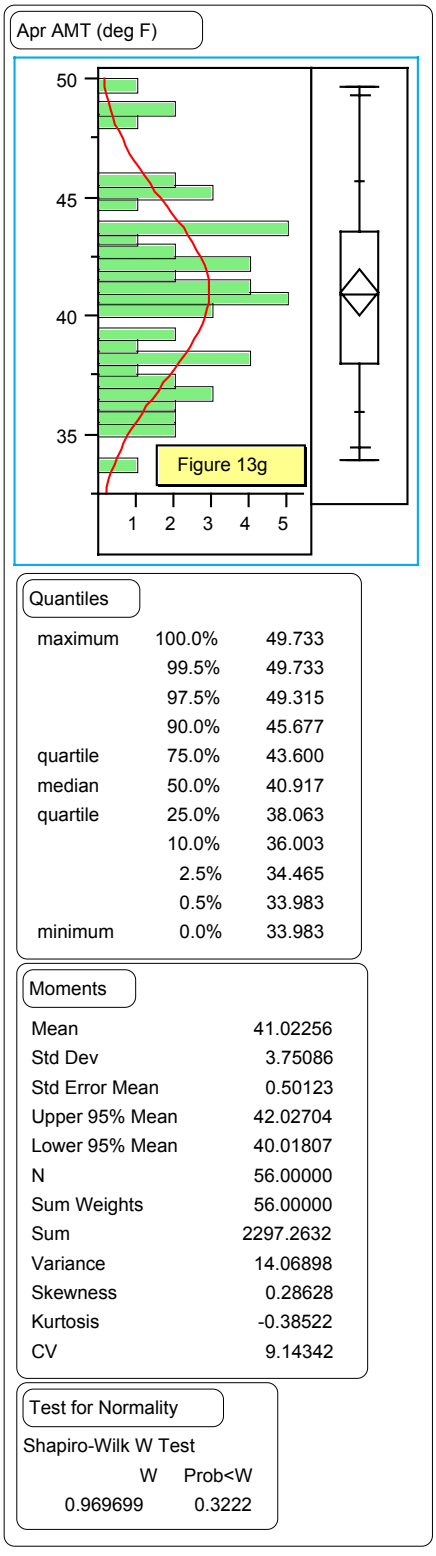
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	134.8013	134.801	7.3588
Error	54	989.1925	18.318	Prob>F
C Total	55	1123.9938		0.0089

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-154.3353	68.29268	-2.26	0.0279
Year	0.0939998	0.034652	2.71	0.0089

Figure 13. Monthly average temperature (^{O}F), AMT, histogram for March (Figure 13e) and distribution through 1943-1999 (Figure 13f) for Deadwood, SD. On Figure 13e the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



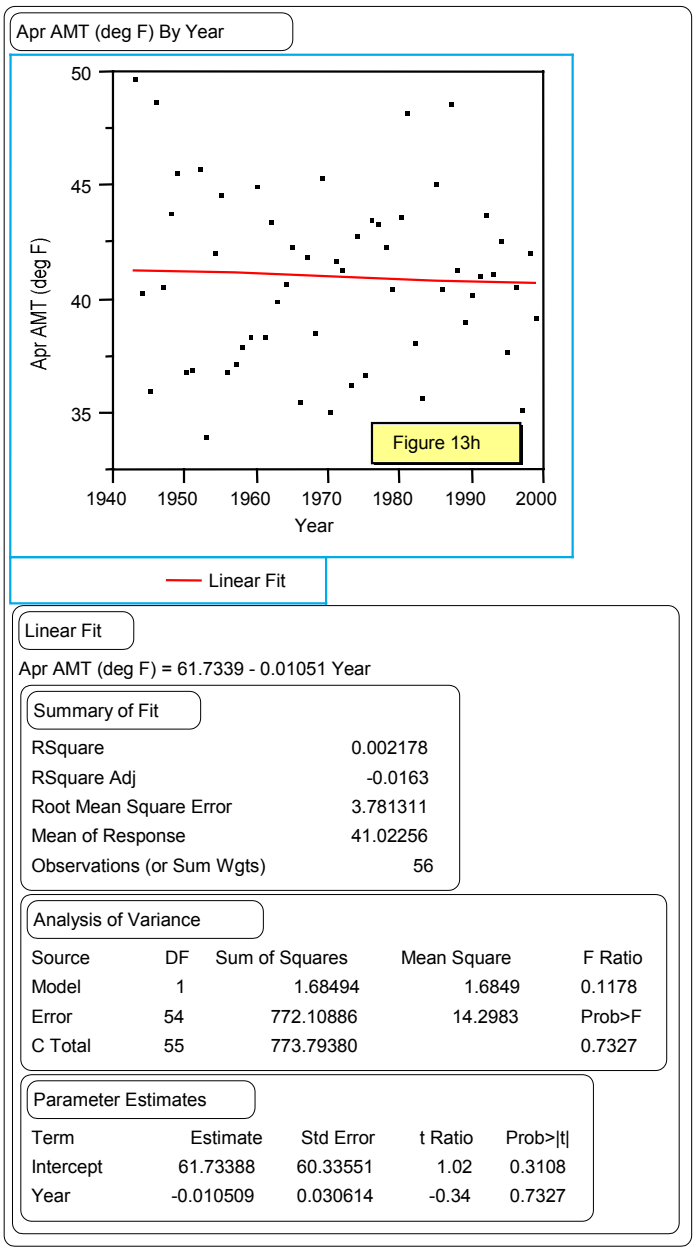
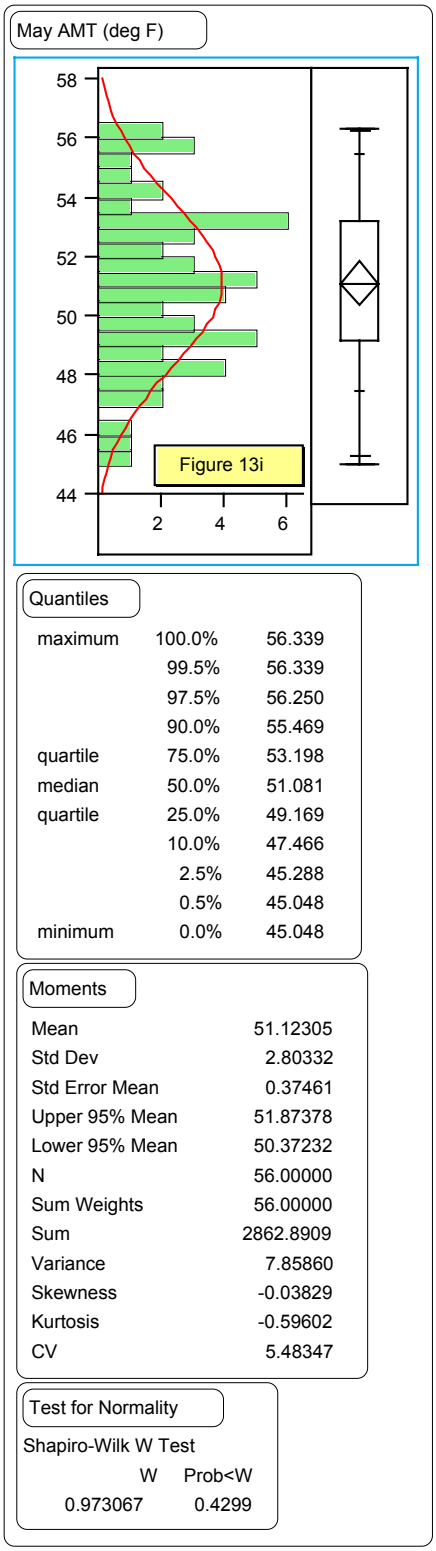


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for April (Figure 13g) and distribution through 1943-1999 (Figure 13h) for Deadwood, SD. On Figure 13g the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



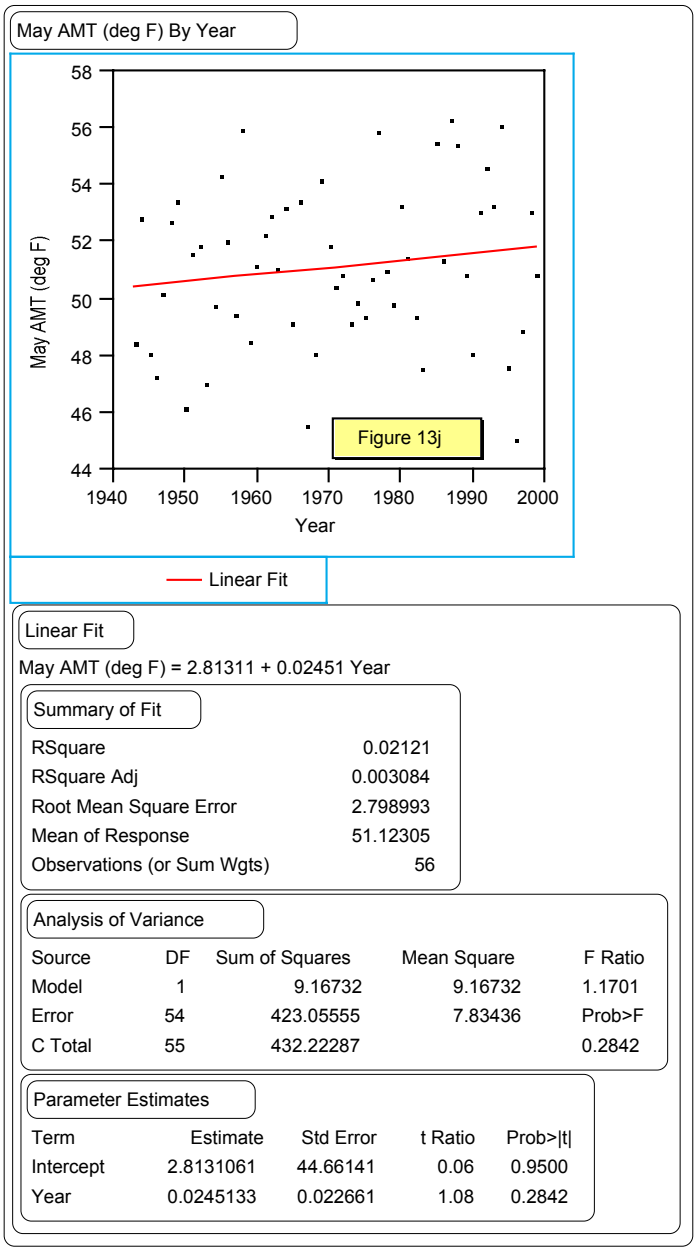
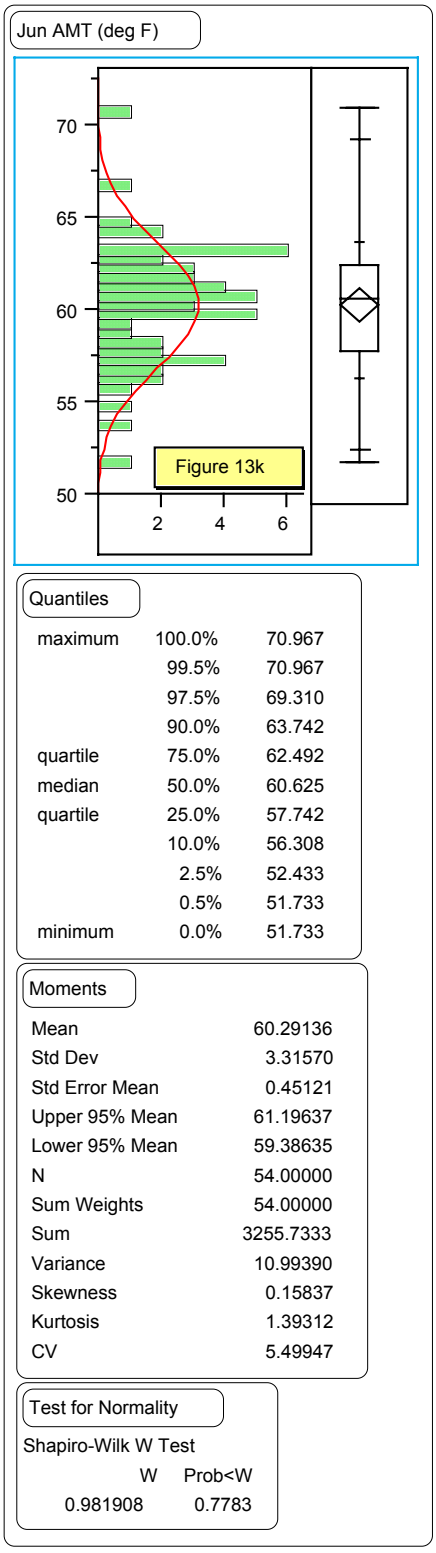


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for May (Figure 13i) and distribution through 1943-1999 (Figure 13j) for Deadwood, SD. On Figure 13i the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



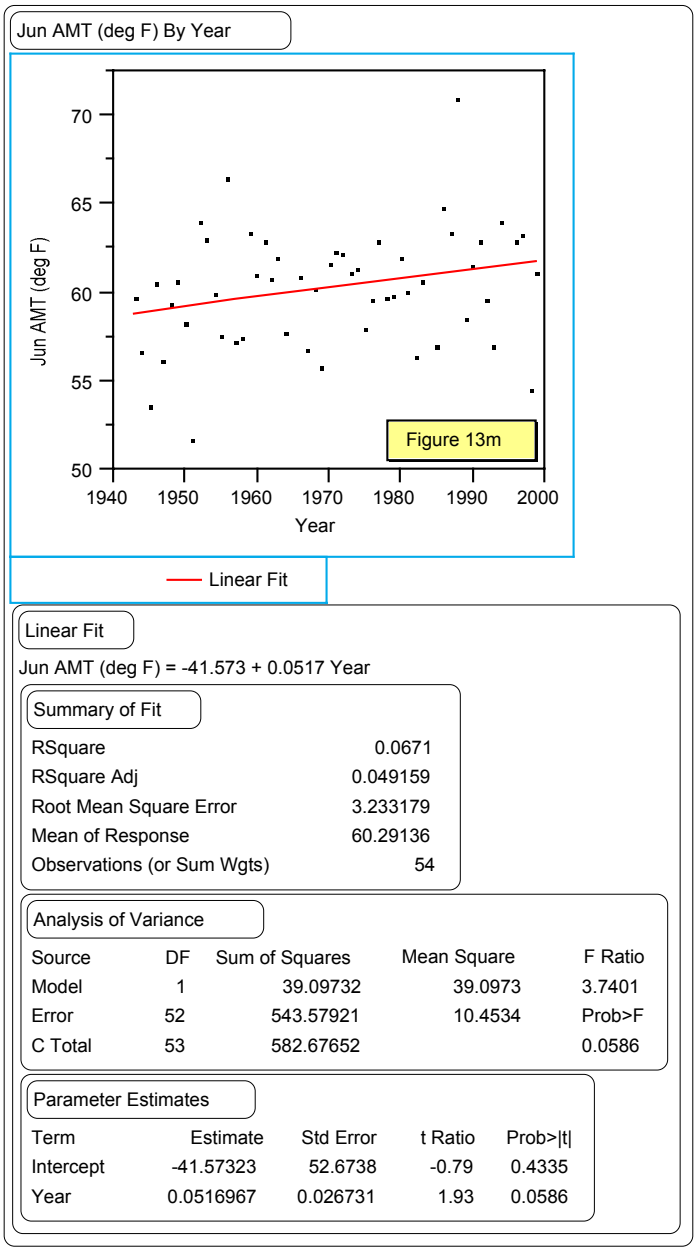
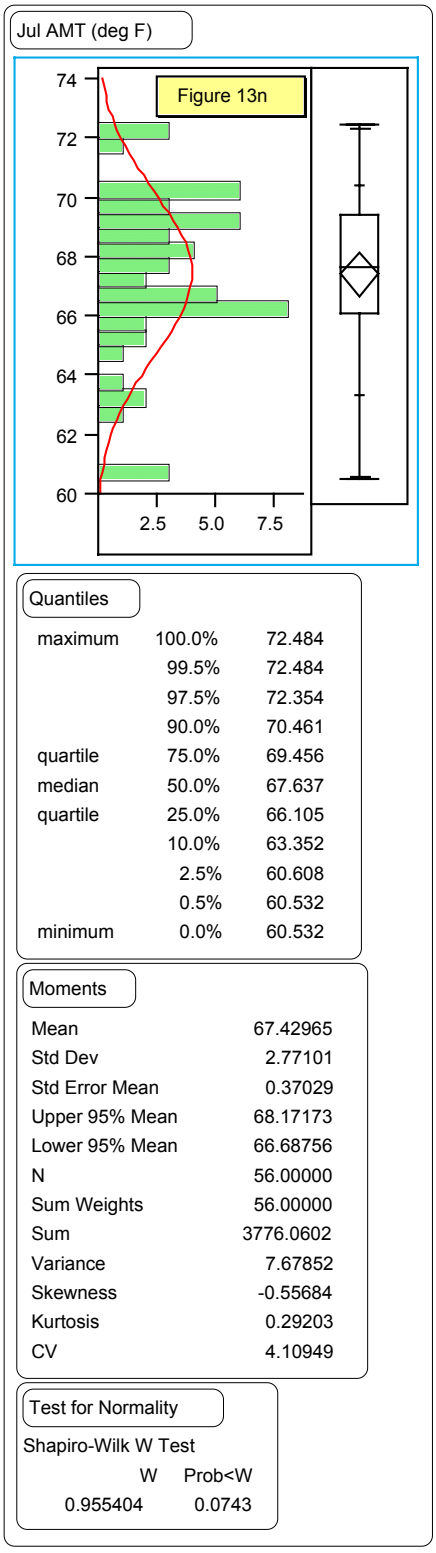


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for June (Figure 13k) and distribution through 1943-1999 (Figure 13m) for Deadwood, SD. On Figure 13k the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



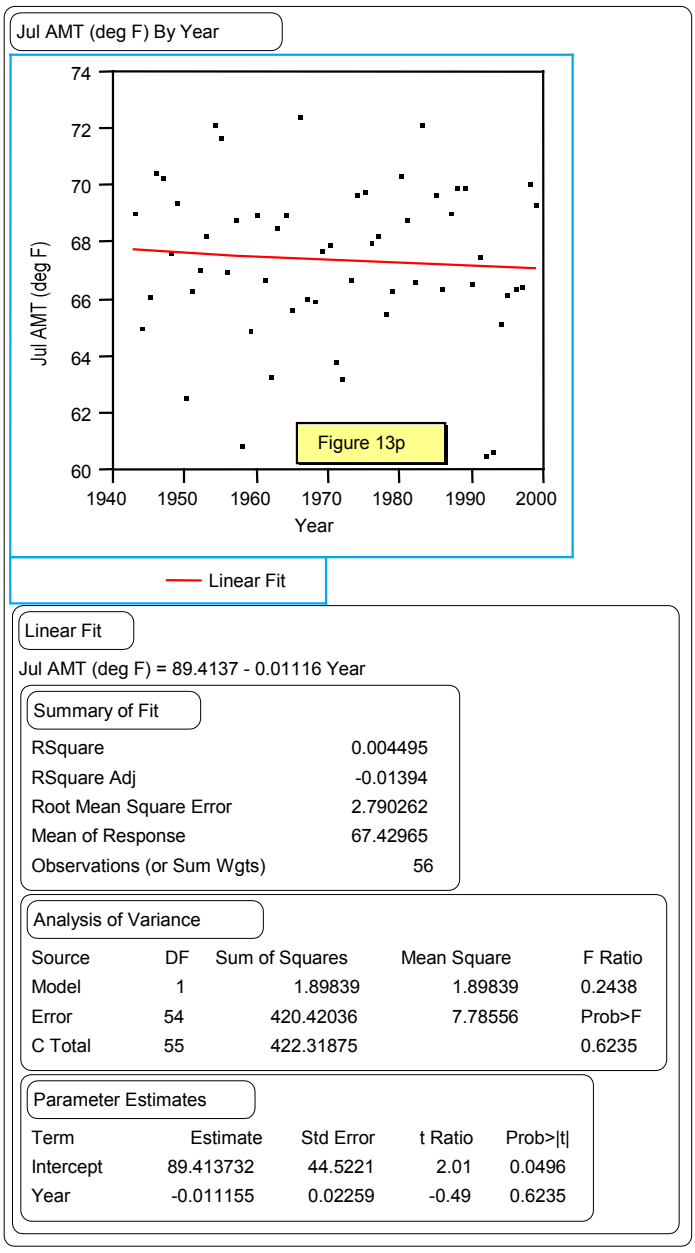


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for July (Figure 13n) and distribution through 1943-1999 (Figure 13p) for Deadwood, SD. On Figure 13n the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

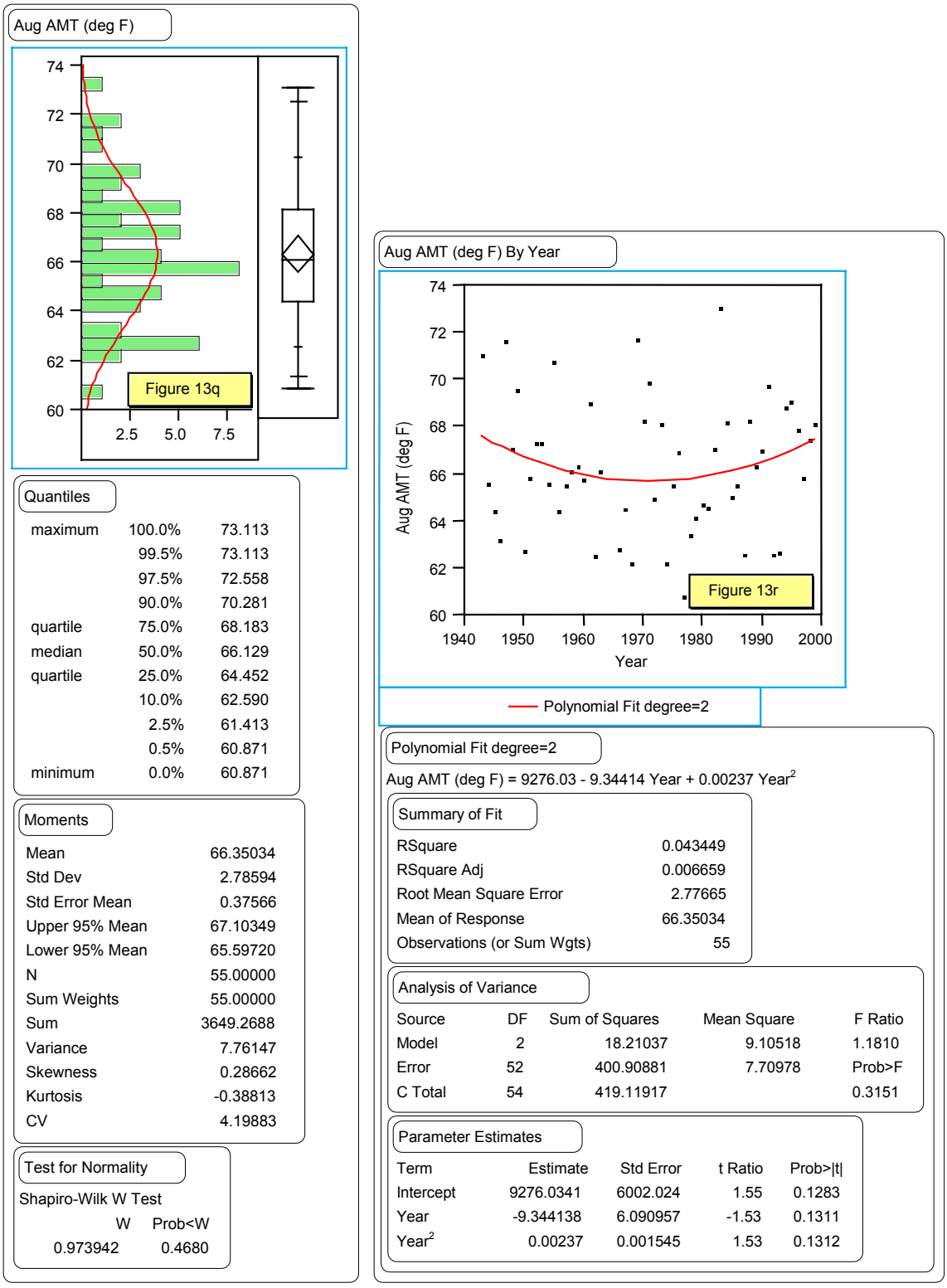
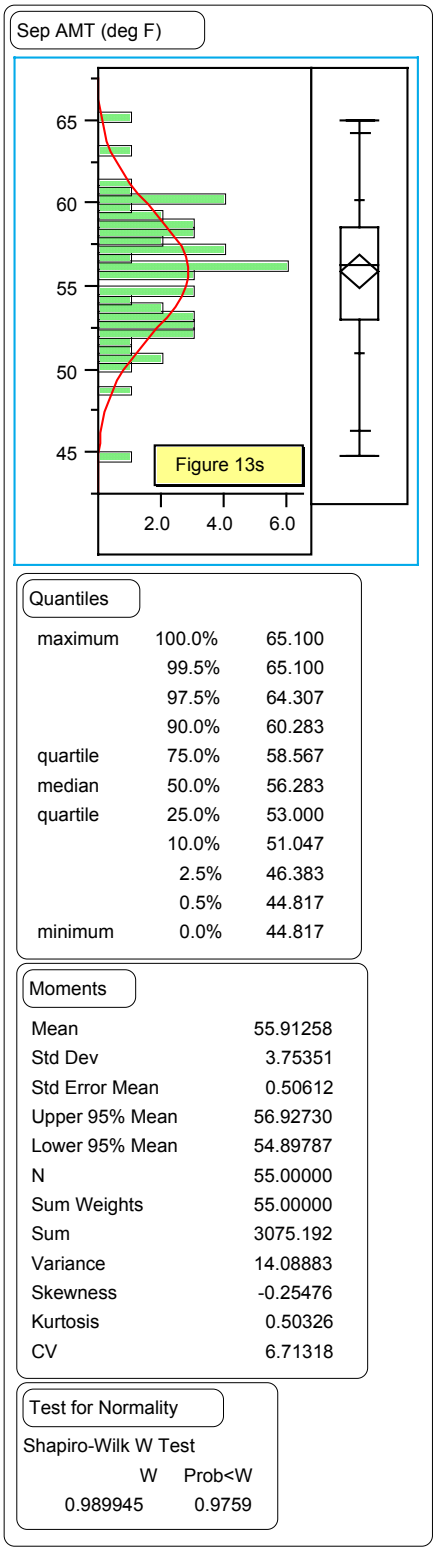


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for August (Figure 13q) and distribution through 1943-1999 (Figure 13r) for Deadwood, SD. On Figure 13q the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



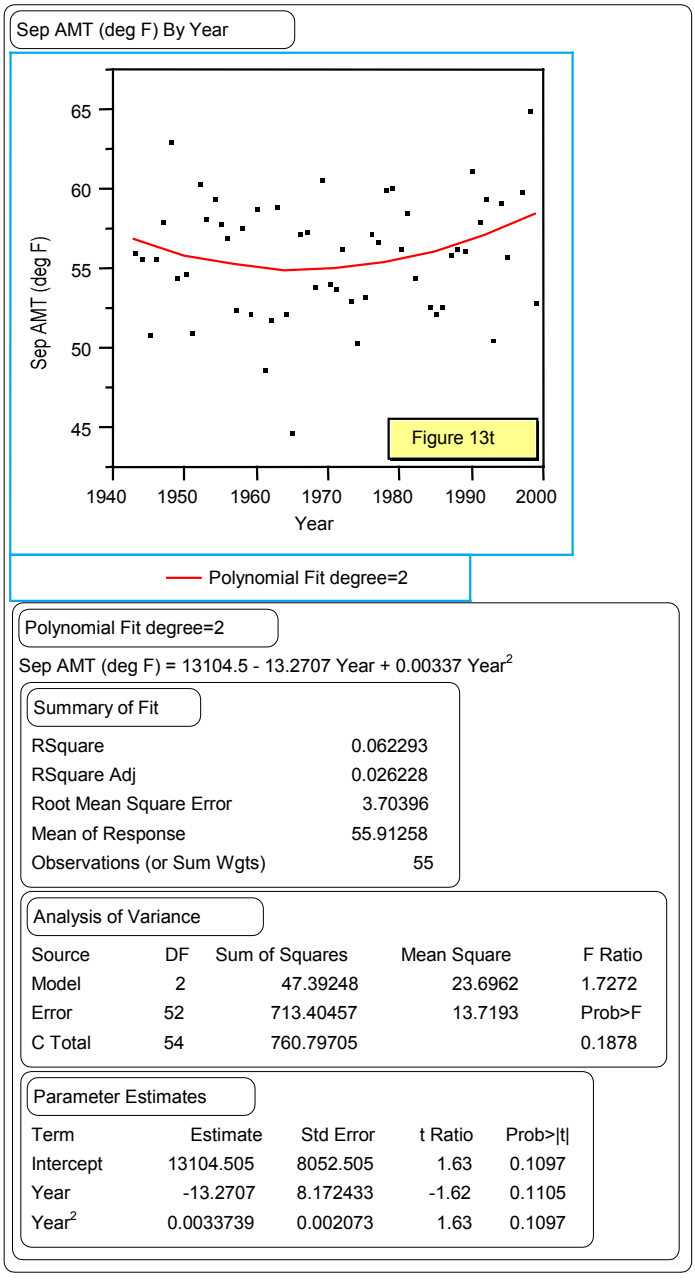
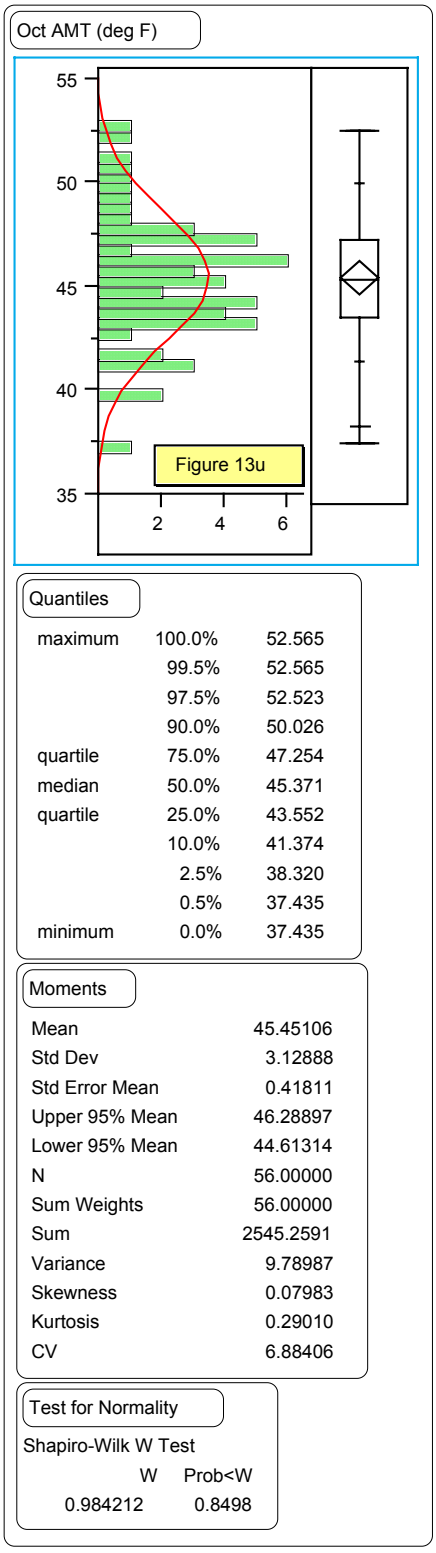


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for September (Figure 13s) and distribution through 1943-1999 (Figure 13t) for Deadwood, SD. On Figure 13s the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	52.565
	99.5%	52.565
	97.5%	52.523
	90.0%	50.026
quartile	75.0%	47.254
median	50.0%	45.371
quartile	25.0%	43.552
	10.0%	41.374
	2.5%	38.320
	0.5%	37.435
minimum	0.0%	37.435

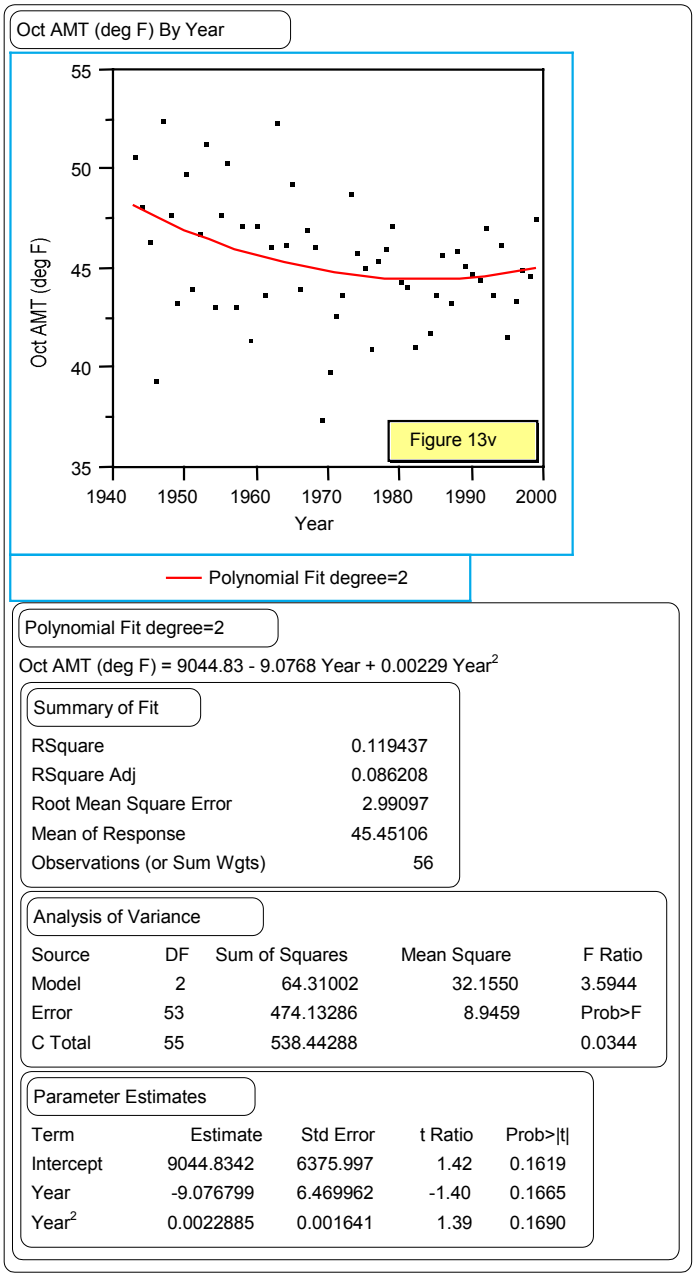
Moments

Mean	45.45106
Std Dev	3.12888
Std Error Mean	0.41811
Upper 95% Mean	46.28897
Lower 95% Mean	44.61314
N	56.00000
Sum Weights	56.00000
Sum	2545.2591
Variance	9.78987
Skewness	0.07983
Kurtosis	0.29010
CV	6.88406

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.984212	0.8498



Polynomial Fit degree=2

Oct AMT (deg F) = 9044.83 - 9.0768 Year + 0.00229 Year^2

Summary of Fit

RSquare	0.119437
RSquare Adj	0.086208
Root Mean Square Error	2.99097
Mean of Response	45.45106
Observations (or Sum Wgts)	56

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	64.31002	32.1550	3.5944
Error	53	474.13286	8.9459	Prob>F
C Total	55	538.44288		0.0344

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	9044.8342	6375.997	1.42	0.1619
Year	-9.076799	6.469962	-1.40	0.1665
Year^2	0.0022885	0.001641	1.39	0.1690

Figure 13. Monthly average temperature (^{O}F), AMT, histogram for October (Figure 13u) and distribution through 1943-1999 (Figure 13v) for Deadwood, SD. On Figure 13u the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

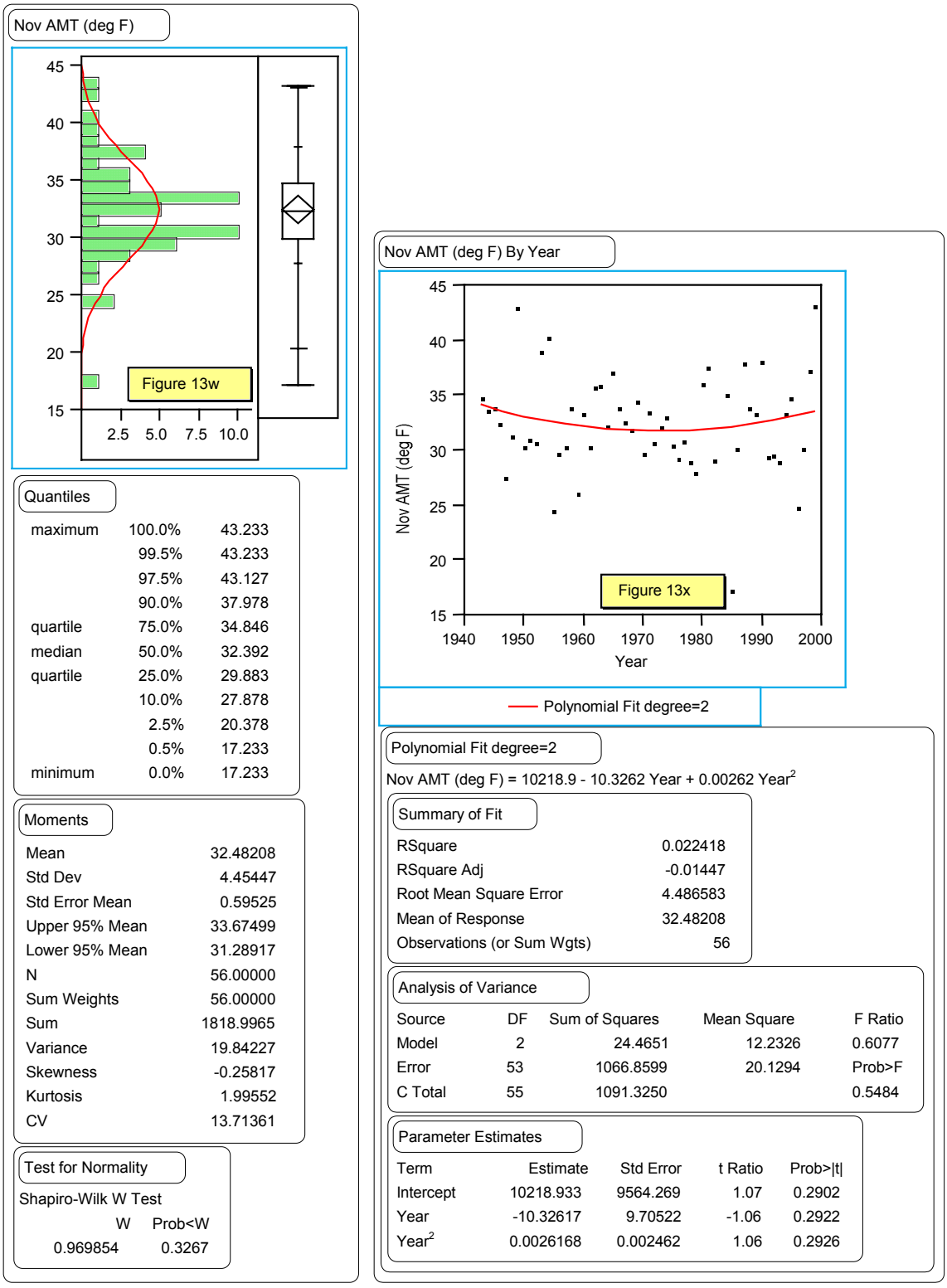
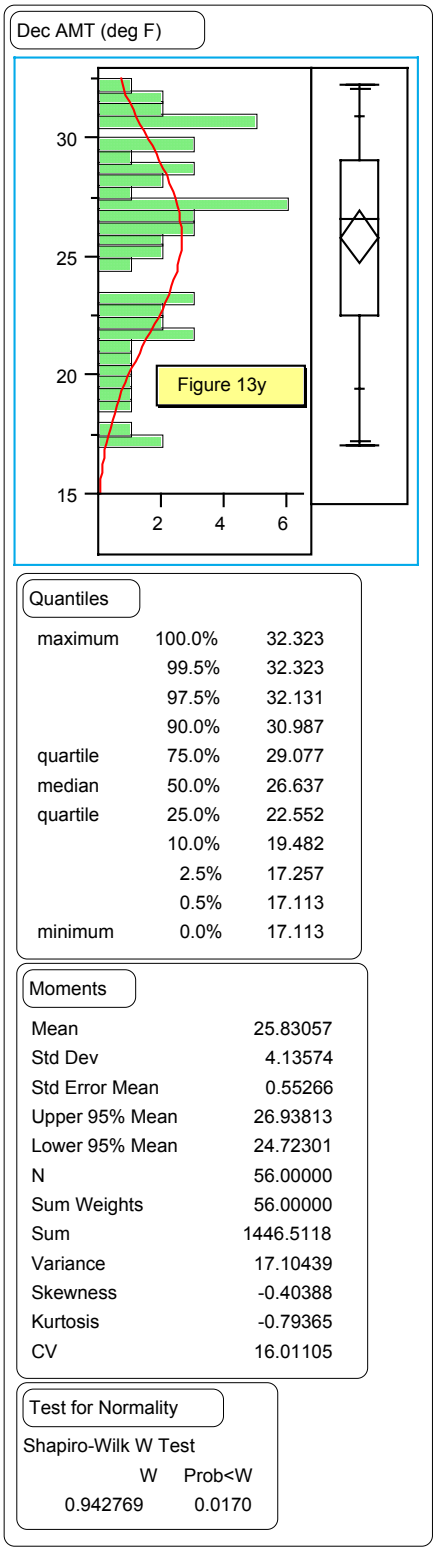


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for November (Figure 13w) and distribution through 1943-1999 (Figure 13x) for Deadwood, SD. On Figure 13w the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



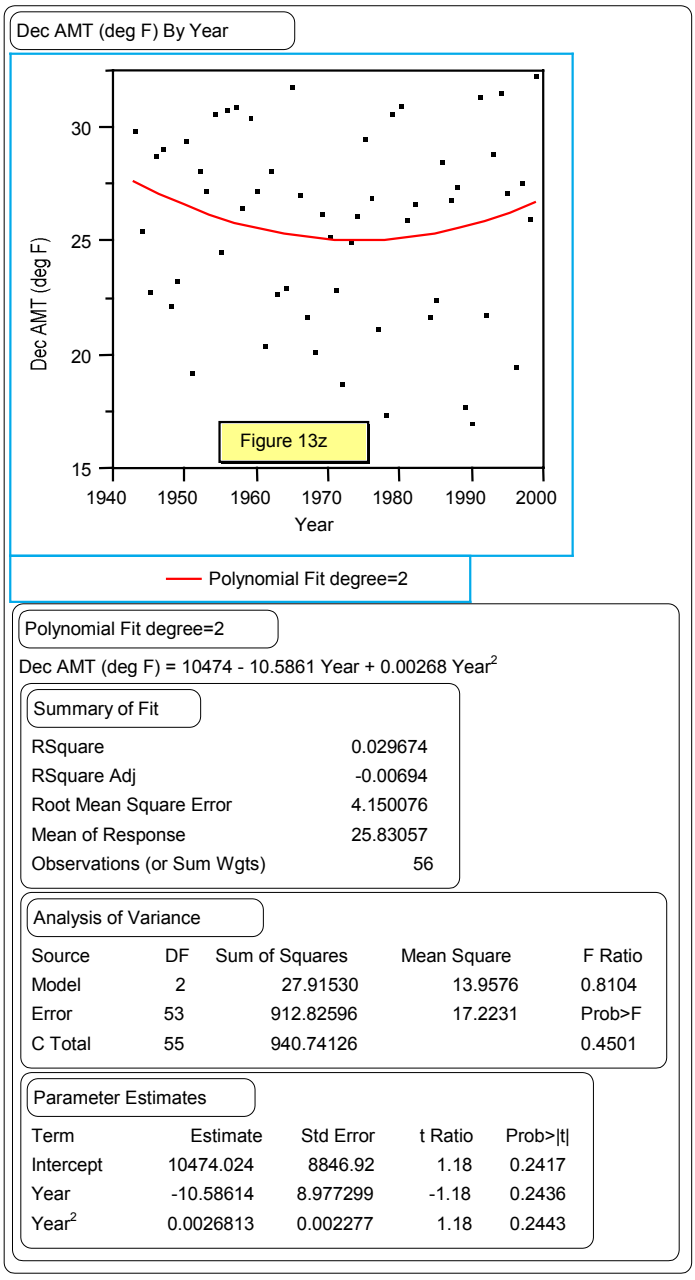


Figure 13. Monthly average temperature (^{O}F), AMT, histogram for December (Figure 13y) and distribution through 1943-1999 (Figure 13z) for Deadwood, SD. On Figure 13y the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

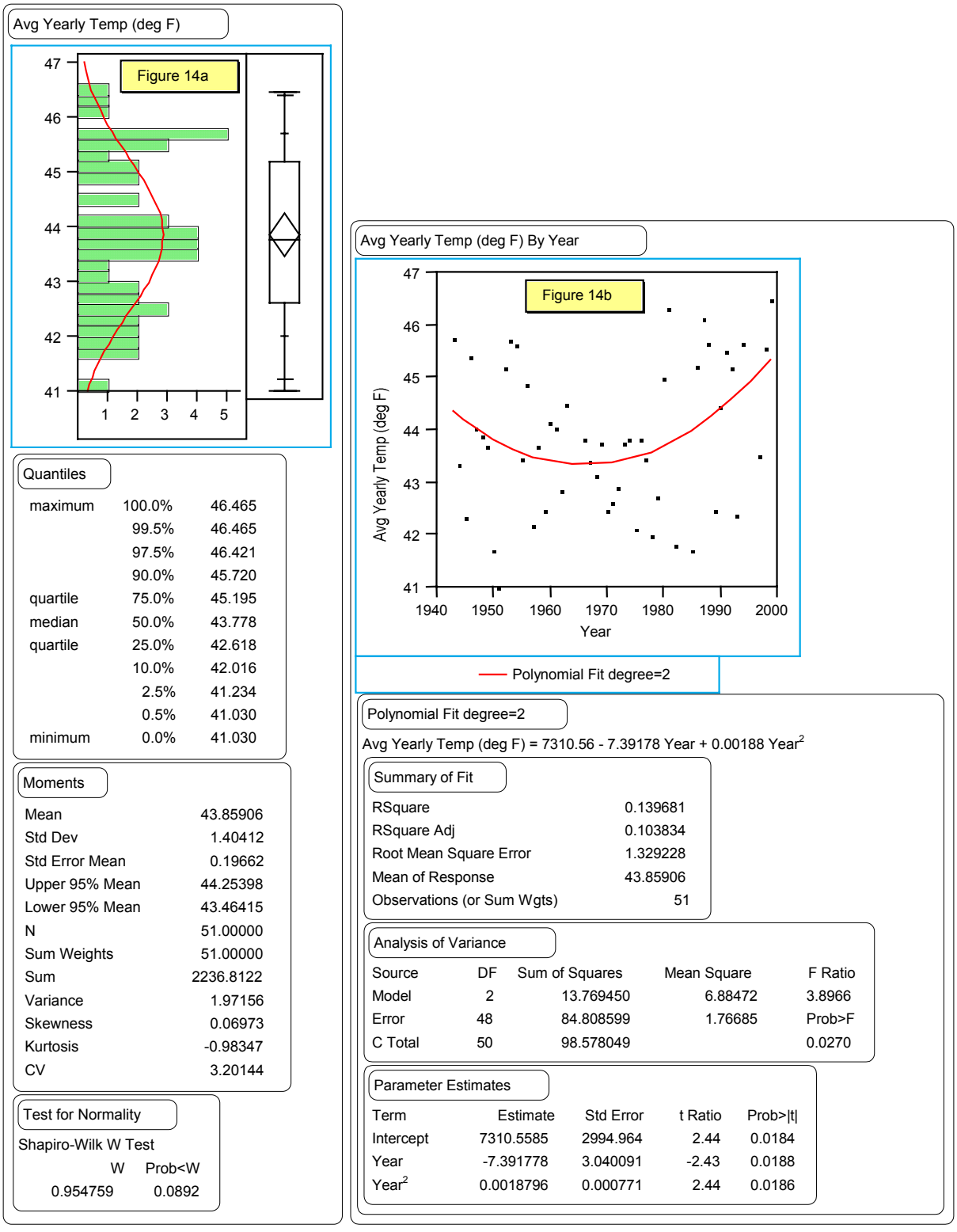


Figure 14. Annual average temperature (^{O}F) histogram (Figure 14a) and as function of year (Figure 14b) for Deadwood, SD (1943-1999). On Figure 14a the Y axis = average yearly temperature (^{O}F) and the X axis = the number of years (frequency).

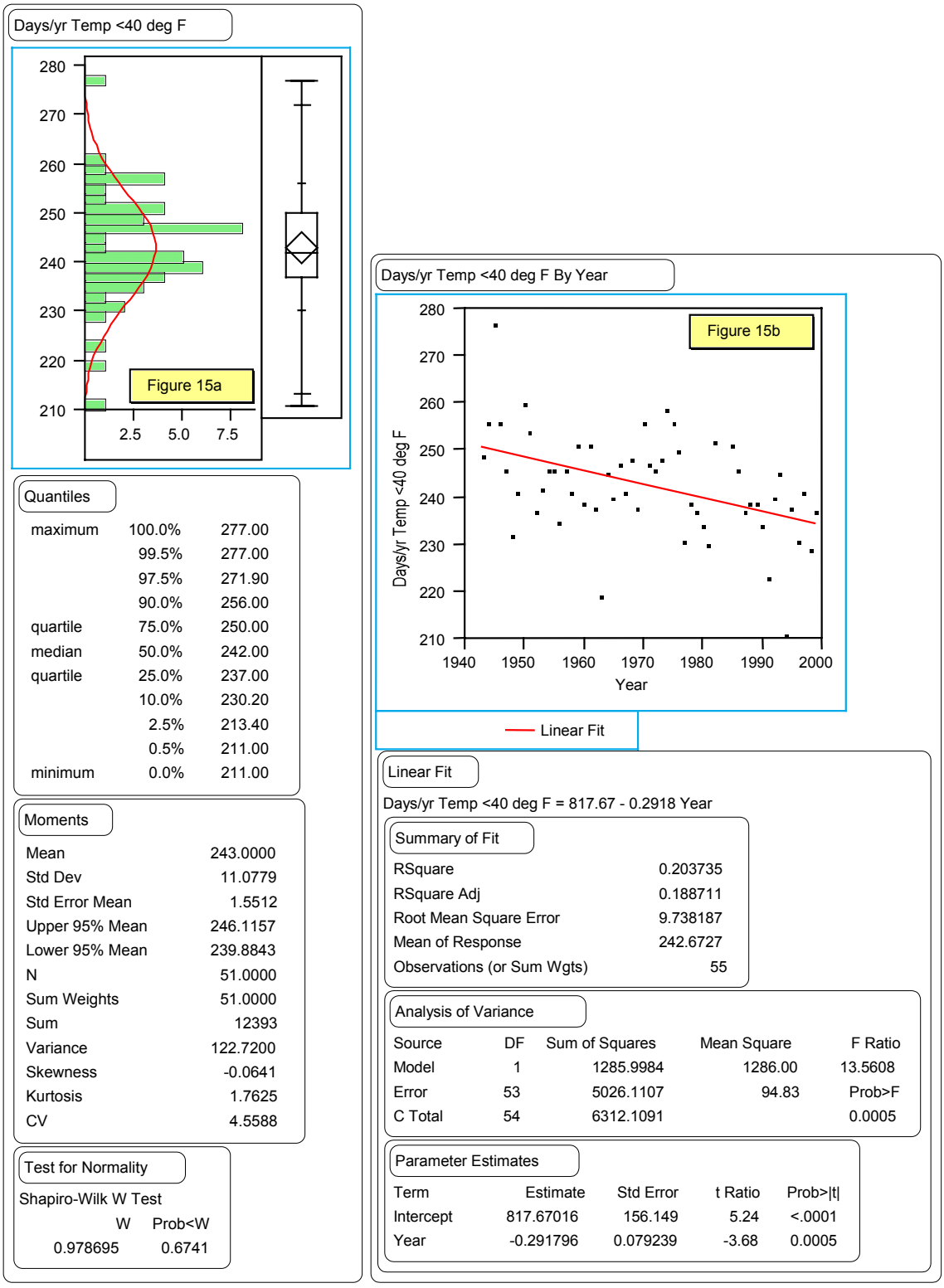
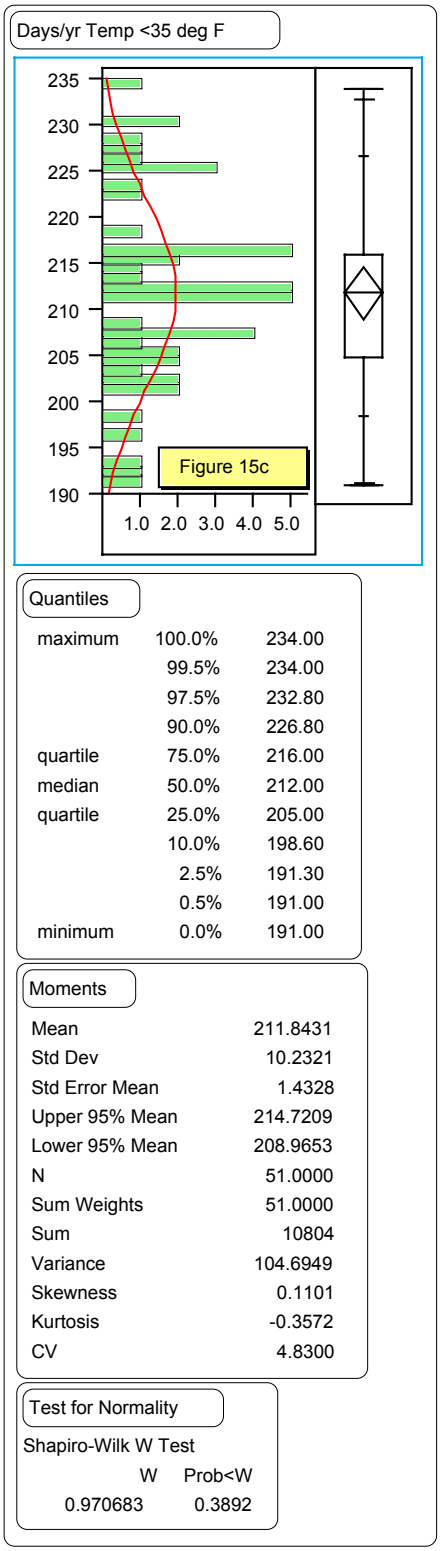


Figure 15. Number of days/yr with temperatures < 40 ^{O}F histogram (Figure 15a) and distribution by year (1943-1999) for Deadwood, SD (Figure 15b). On Figure 15a the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	234.00
	99.5%	234.00
	97.5%	232.80
	90.0%	226.80
quartile	75.0%	216.00
median	50.0%	212.00
quartile	25.0%	205.00
	10.0%	198.60
	2.5%	191.30
	0.5%	191.00
minimum	0.0%	191.00

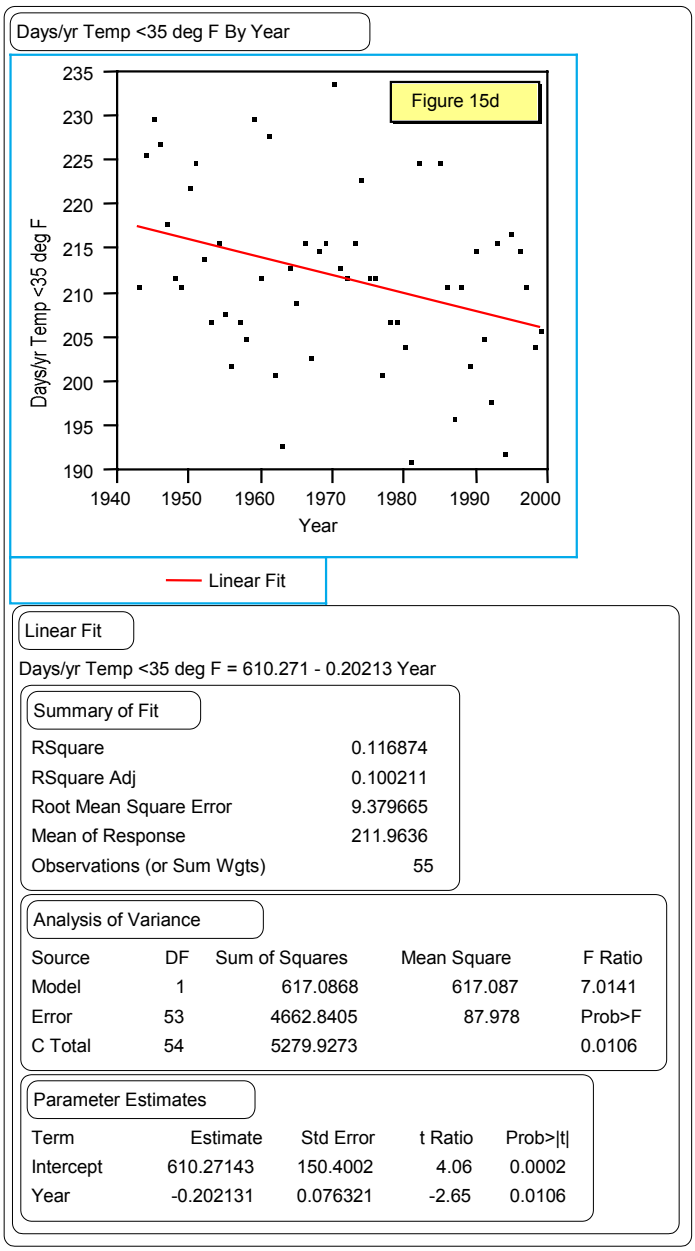
Moments

Mean	211.8431
Std Dev	10.2321
Std Error Mean	1.4328
Upper 95% Mean	214.7209
Lower 95% Mean	208.9653
N	51.0000
Sum Weights	51.0000
Sum	10804
Variance	104.6949
Skewness	0.1101
Kurtosis	-0.3572
CV	4.8300

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.970683	0.3892



Linear Fit

Days/yr Temp <35 deg F = 610.271 - 0.20213 Year

Summary of Fit

RSquare	0.116874
RSquare Adj	0.100211
Root Mean Square Error	9.379665
Mean of Response	211.9636
Observations (or Sum Wgts)	55

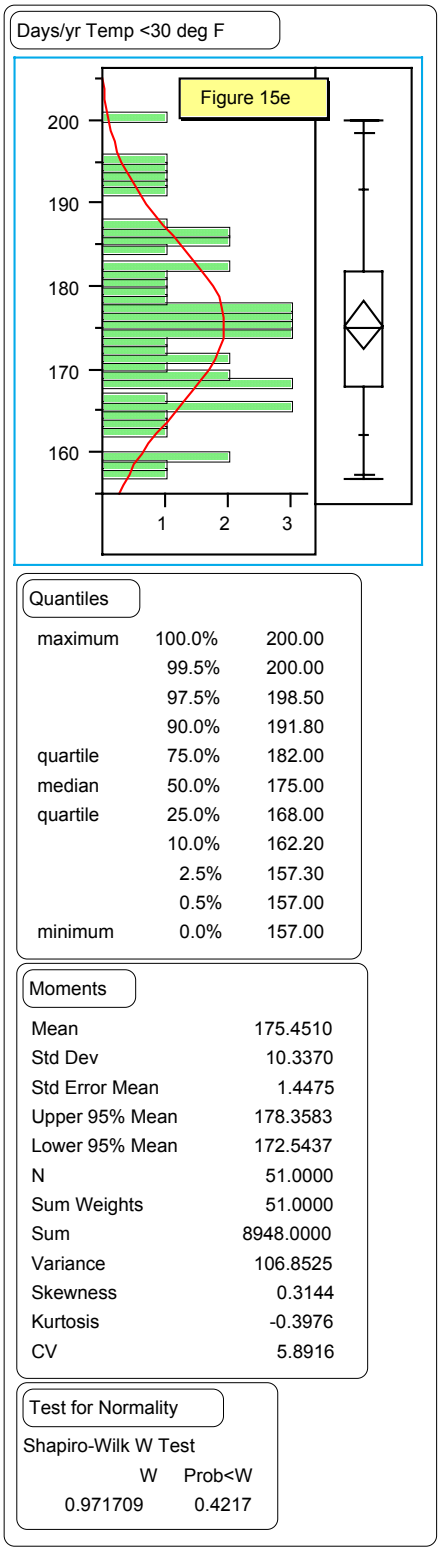
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	617.0868	617.087	7.0141
Error	53	4662.8405	87.978	Prob>F
C Total	54	5279.9273		0.0106

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	610.27143	150.4002	4.06	0.0002
Year	-0.202131	0.076321	-2.65	0.0106

Figure 15. Number of days/yr with temperatures < 35 ^{O}F histogram (Figure 15c) and distribution by year (1943-1999) for Deadwood, SD (Figure 15d). On Figure 15c the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



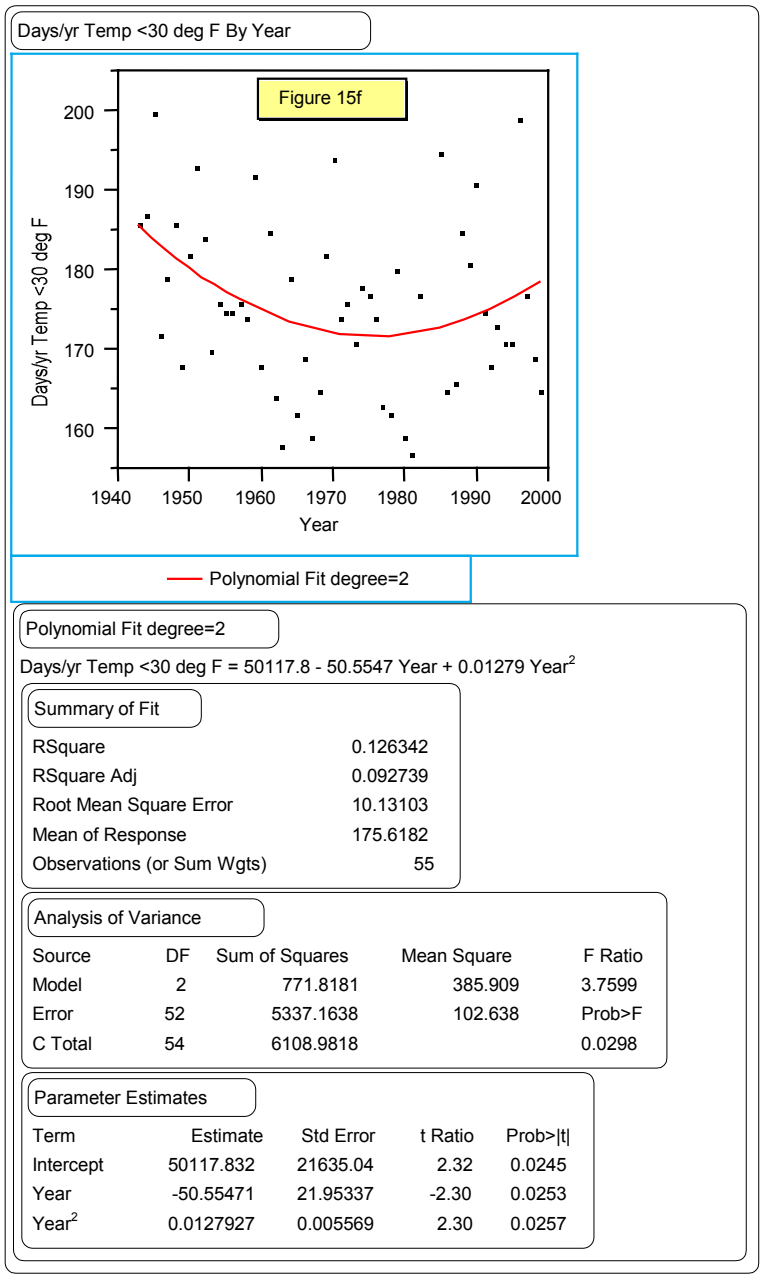
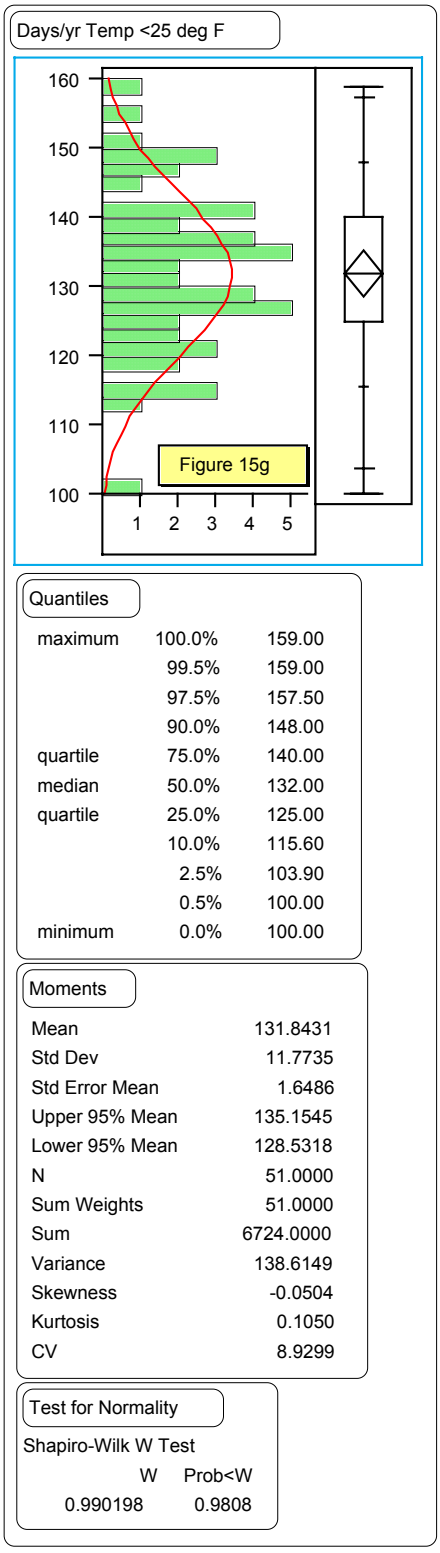


Figure 15. Number of days/yr with temperatures < 30 ^{O}F histogram (Figure 15e) and distribution by year (1943-1999) for Deadwood, SD (Figure 15f). On Figure 15e the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



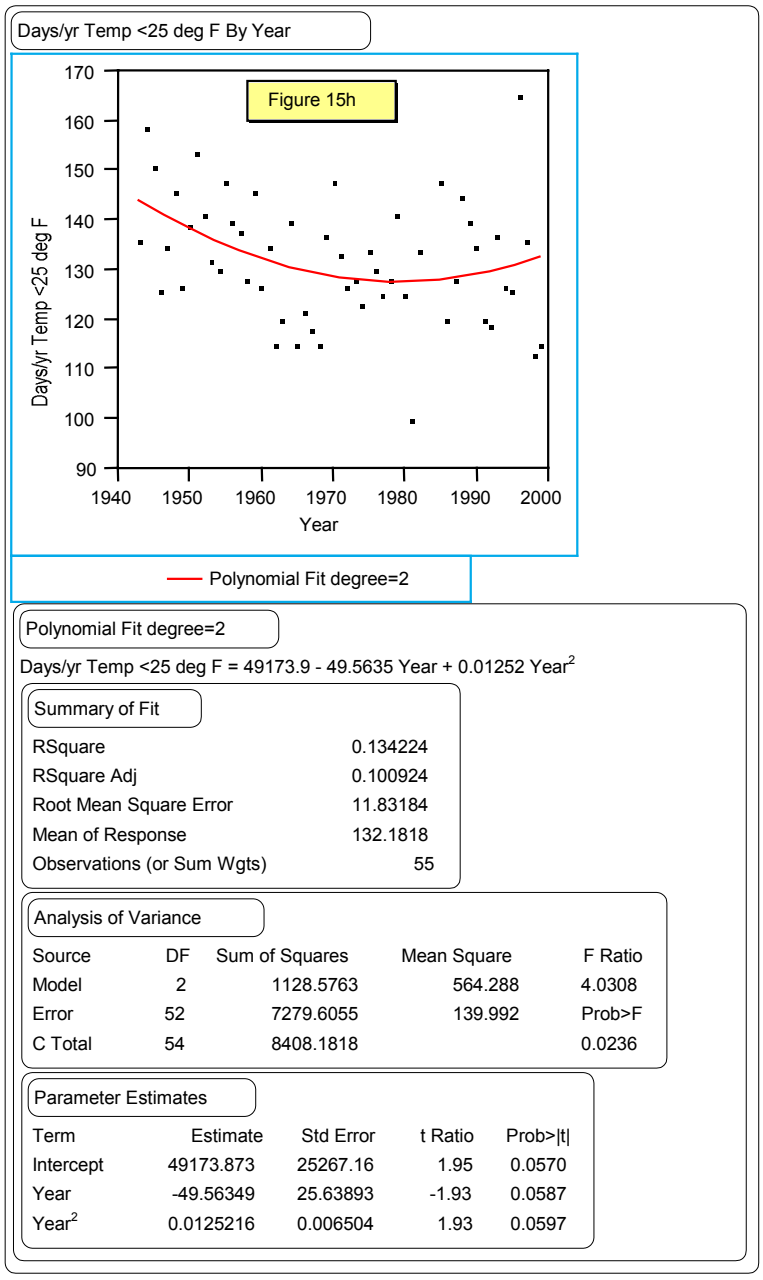


Figure 15. Number of days/yr with temperatures < 25 ^{O}F histogram (Figure 15g) and distribution by year (1943-1999) for Deadwood, SD (Figure 15h). On Figure 15g the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

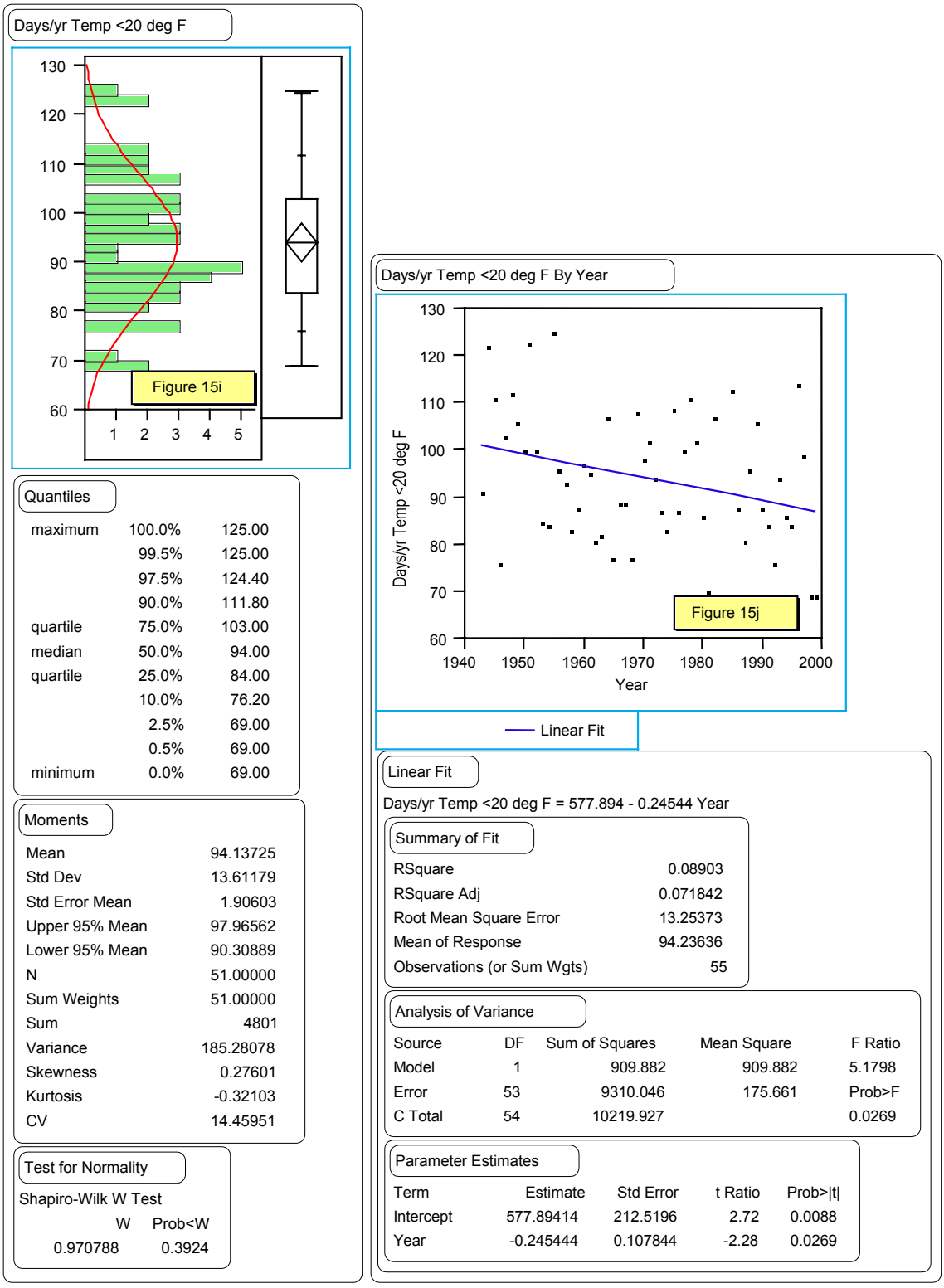
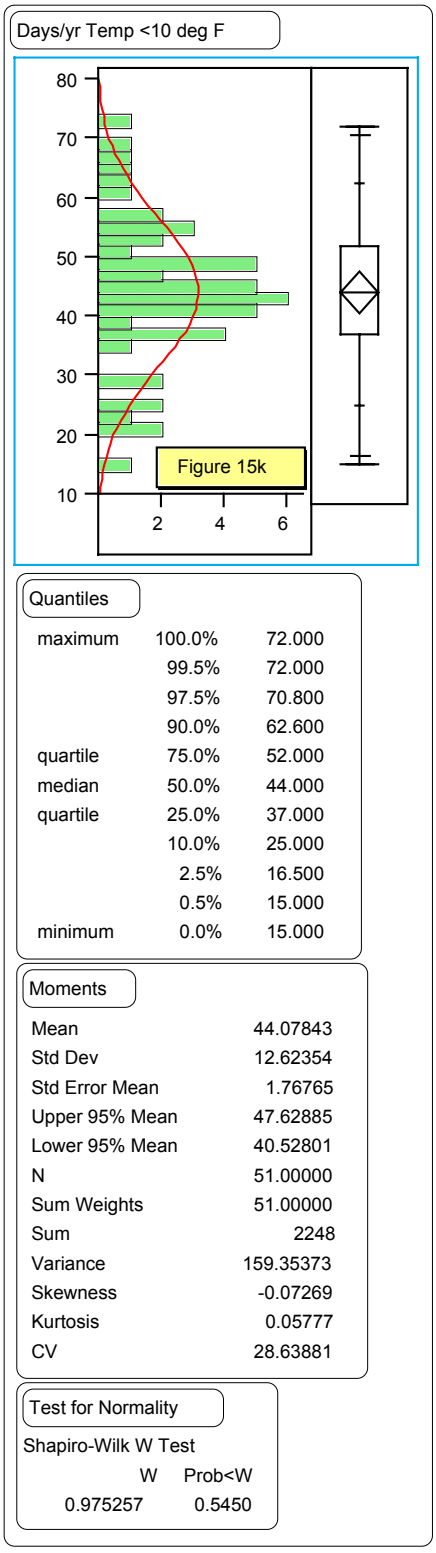


Figure 15. Number of days/yr with temperatures < 20 ^{O}F histogram (Figure 15i) and distribution by year (1943-1999) for Deadwood, SD (Figure 15j). On Figure 15i the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



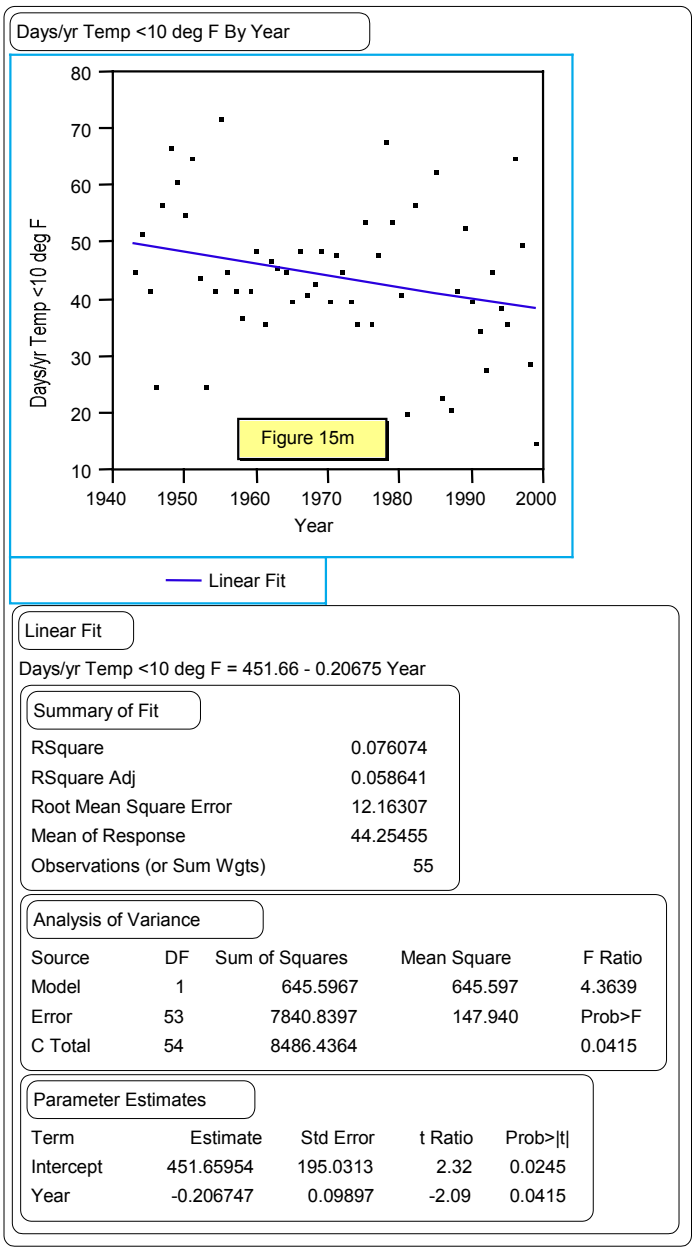
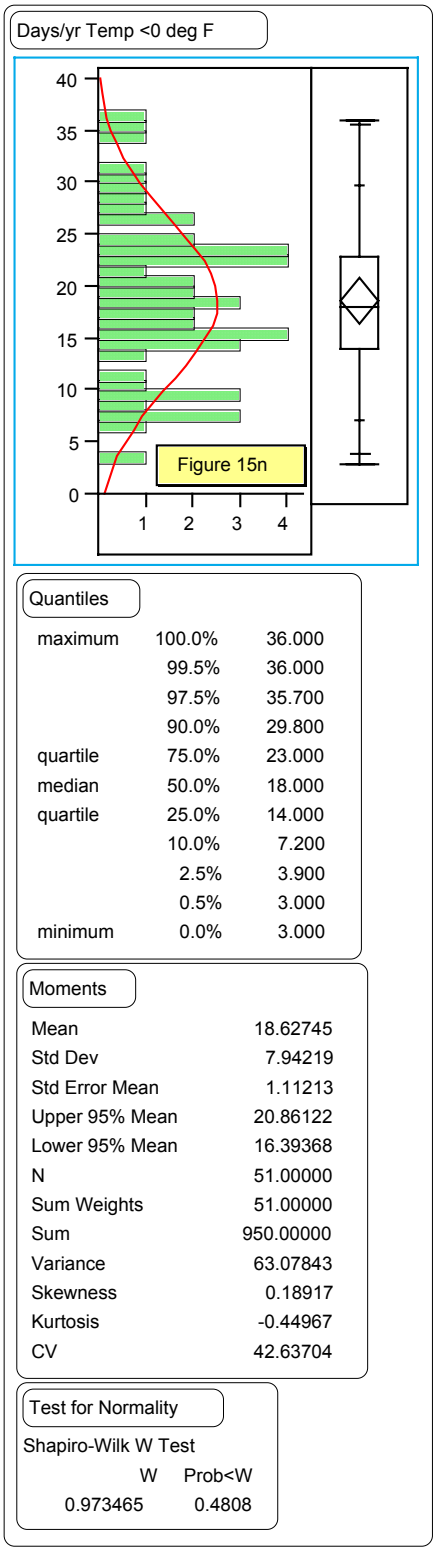


Figure 15. Number of days/yr with temperatures < 10 ^{O}F histogram (Figure 15k) and distribution by year (1943-1999) for Deadwood, SD (Figure 15m). On Figure 15k the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



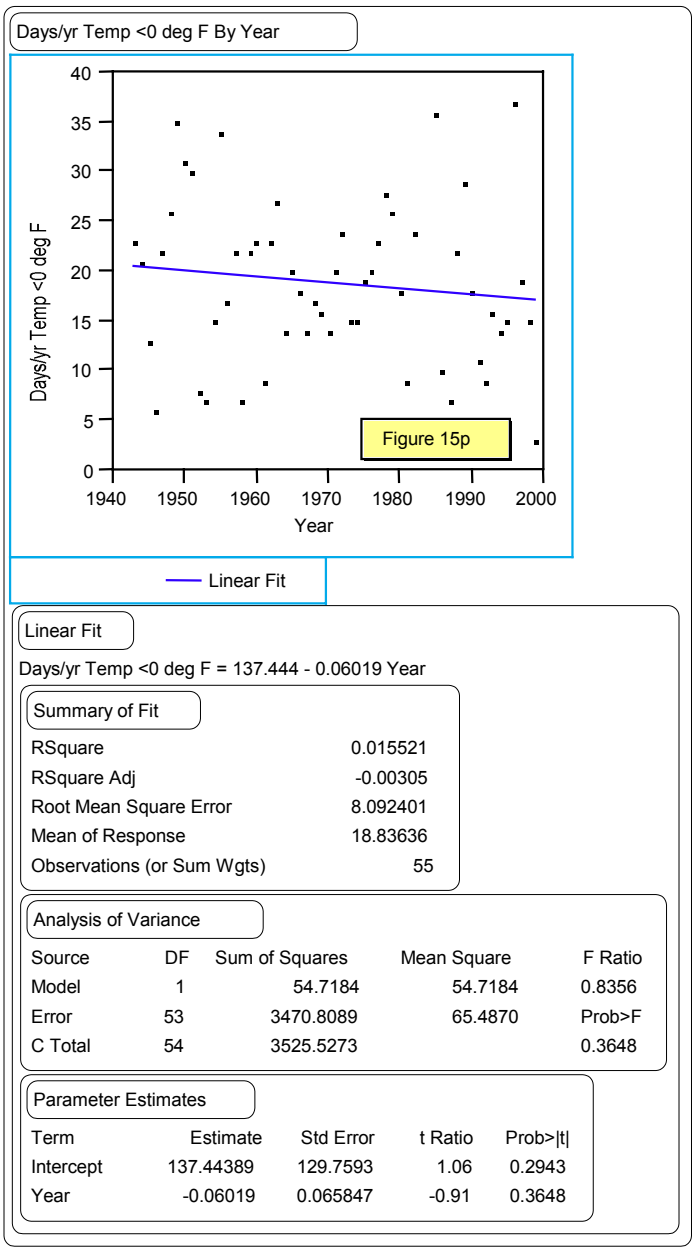
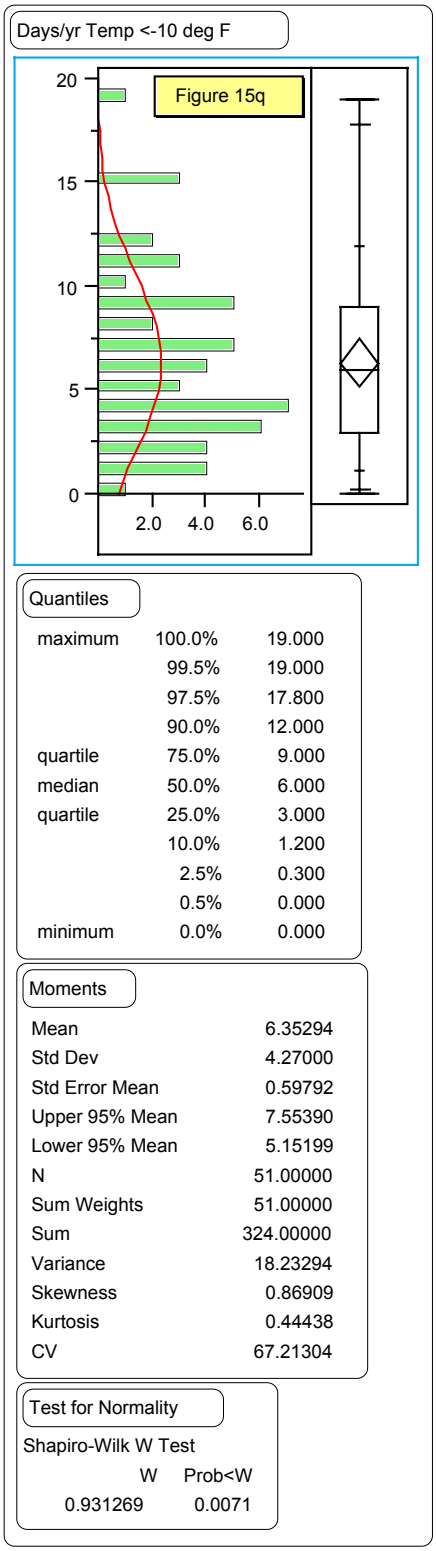


Figure 15. Number of days/yr with temperatures < 0 ^{O}F histogram (Figure 15n) and distribution by year (1943-1999) for Deadwood, SD (Figure 15p). On Figure 15n the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



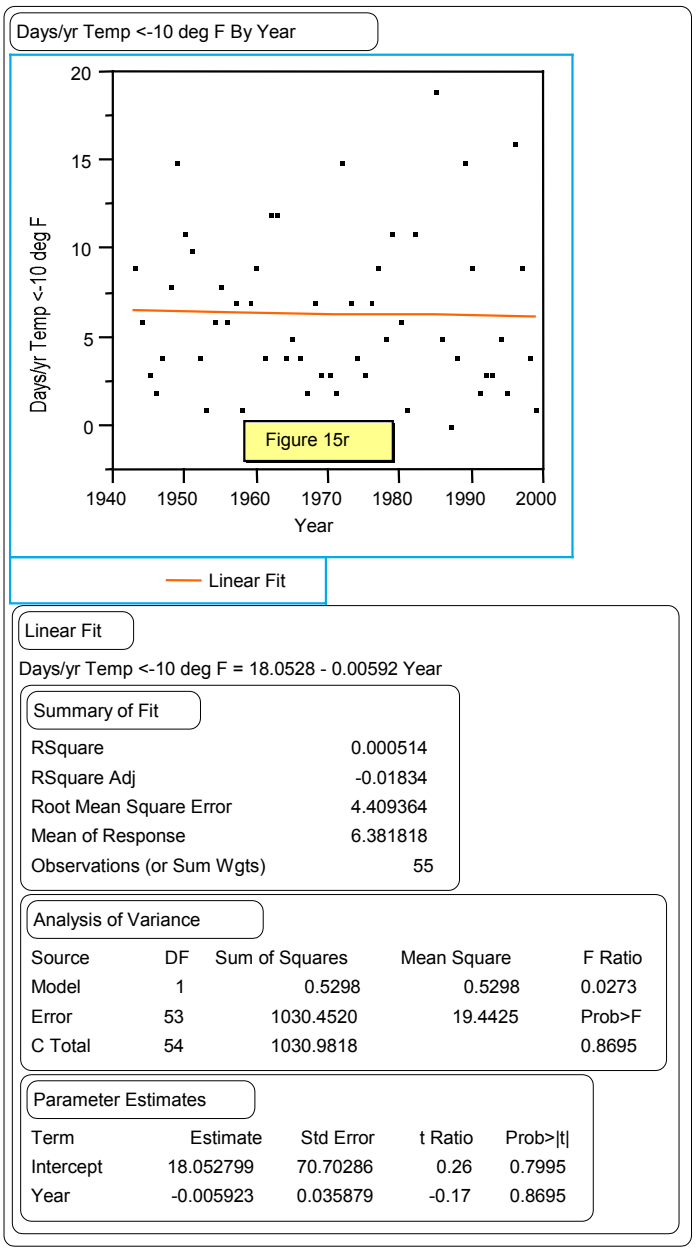
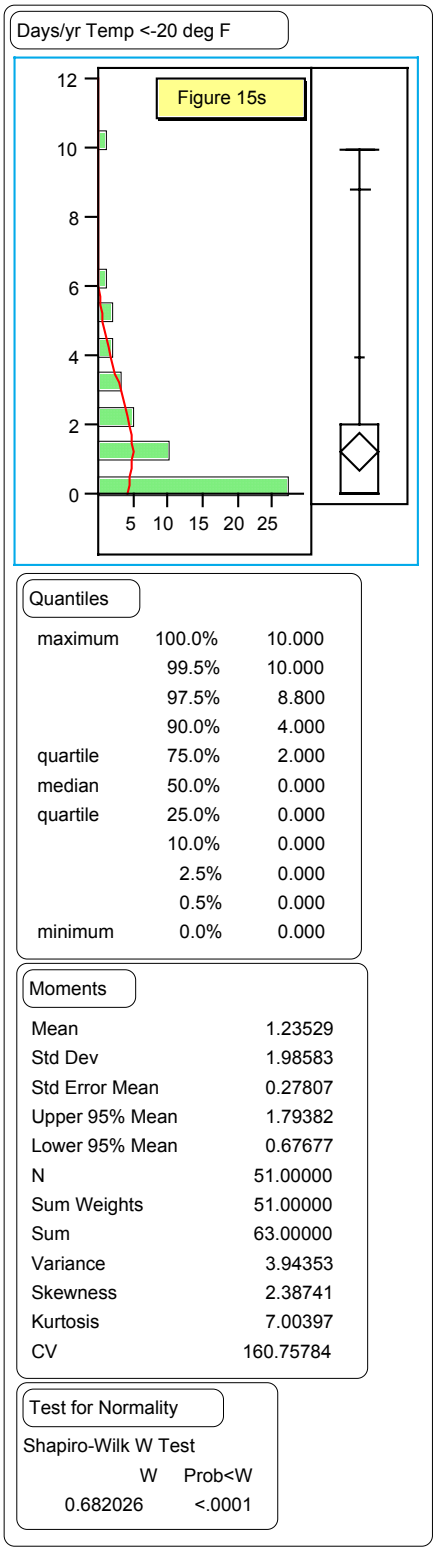


Figure 15. Number of days/yr with temperatures < -10 ^{O}F histogram (Figure 15q) and distribution by year (1943-1999) for Deadwood, SD (Figure 15r). On Figure 15q the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



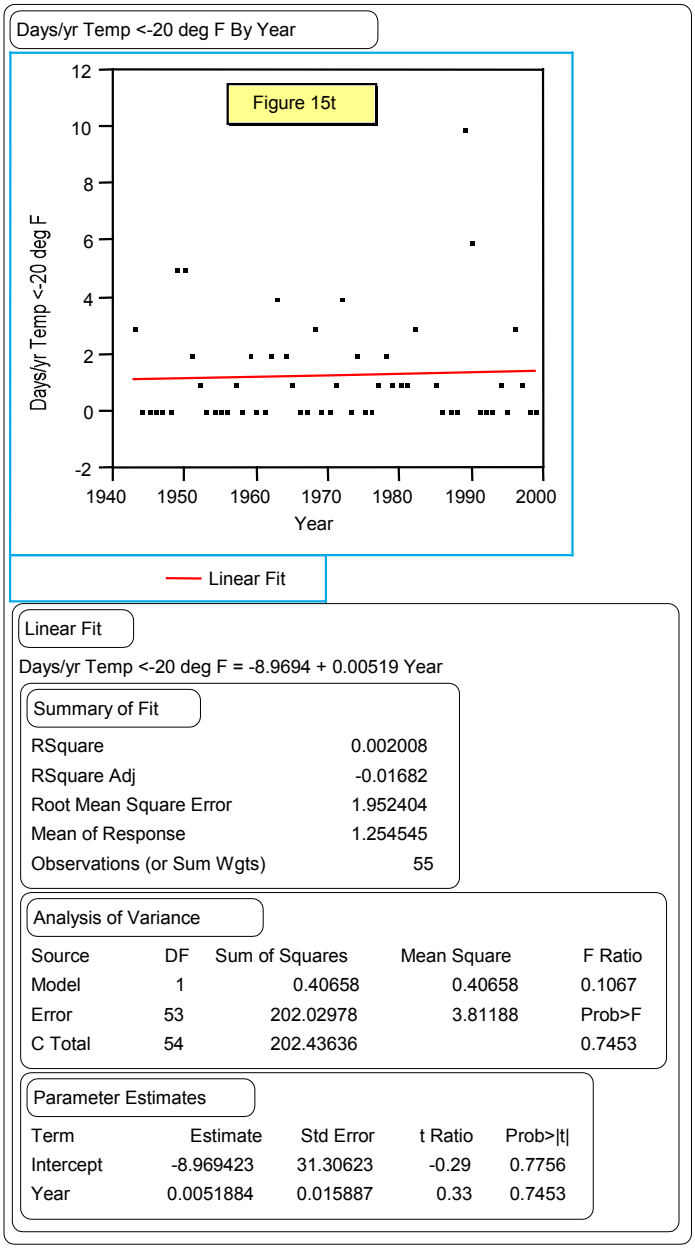


Figure 15. Number of days/yr with temperatures < -20 ^{O}F histogram (Figure 15s) and distribution by year (1943-1999) for Deadwood, SD (Figure 15t). On Figure 15s the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

Table 1. Average number of days/month and per year at critical cold temperature (^{O}F) levels for Deadwood, SD (1943-1999).

Month	----------Critical Cold Temperature Values (^{O}F) ----------								
	<40	<35	<30	<25	<20	<10	<0	<-10	<-20
	----------Number of days at critical temperature----------								
Jan	30.821	30.643	29.893	27.018	22.214	12.804	7.179	3.143	0.607
Feb	27.964	27.625	26.214	22.982	17.821	9.696	4.161	1.268	0.286
Mar	31.143	30.286	27.089	20.821	14.911	6.536	2.393	0.429	0.000
Apr	27.589	24.214	17.661	9.536	4.321	0.768	0.107	0.000	0.000
May	18.125	11.179	4.768	1.268	0.304	0.018	0.000	0.000	0.000
Jun	5.446	1.839	0.446	0.036	0.000	0.000	0.000	0.000	0.000
Jul	0.714	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug	1.482	0.214	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep	12.589	6.625	2.536	0.625	0.125	0.000	0.000	0.000	0.000
Oct	26.875	20.375	12.518	5.768	1.982	0.161	0.018	0.000	0.000
Nov	29.375	28.571	25.179	18.714	12.375	4.286	1.179	0.214	0.000
Dec	30.786	30.571	29.554	25.679	20.232	9.786	3.643	1.250	0.339
Total days/year	242.91	212.20	175.86	132.45	94.29	44.05	18.68	6.30	1.23

Table 2. Average number of days/month and per year at critical warm temperature (^{O}F) levels for Deadwood, SD (1943-1999).

Month	---Critical Warm Temperature Values (^{O}F)---					
	>65	>70	>75	>80	>85	>90
	---Number of days at critical temperature---					
Jan	0.018	0.000	0.000	0.000	0.000	0.000
Feb	0.179	0.000	0.000	0.000	0.000	0.000
Mar	1.304	0.429	0.018	0.000	0.000	0.000
Apr	6.125	2.911	1.161	0.250	0.036	0.018
May	14.982	8.750	4.768	1.679	0.446	0.054
Jun	23.393	18.232	12.750	7.482	3.393	1.071
Jul	30.161	28.125	23.929	17.500	10.196	4.304
Aug	29.179	27.232	23.125	16.839	9.321	3.125
Sep	20.196	15.250	10.786	6.036	2.536	0.607
Oct	10.929	6.179	3.018	0.893	0.089	0.000
Nov	1.268	0.304	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000
Total days/year	137.73	107.41	79.55	50.68	26.02	9.18

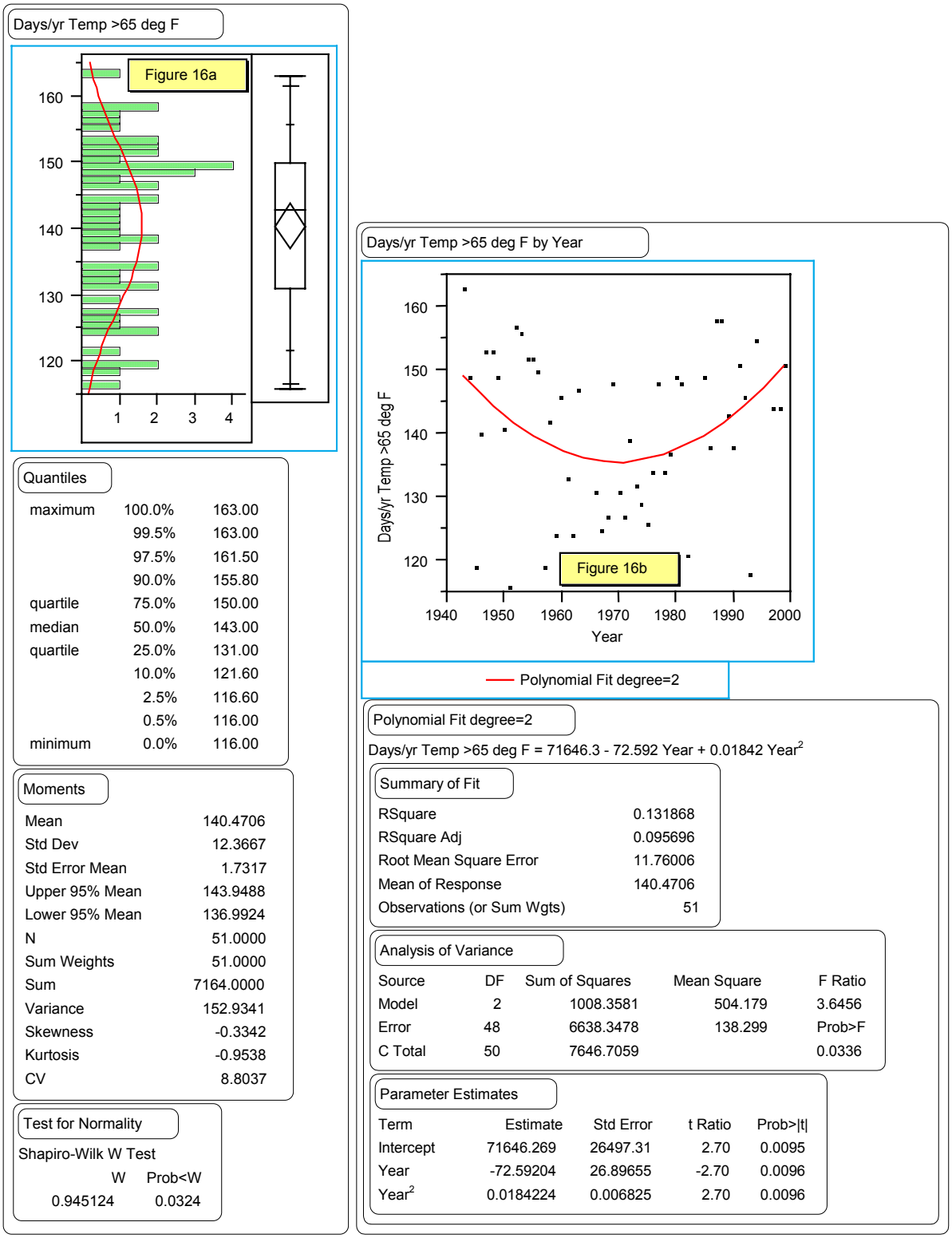


Figure 16. Number of days/yr with temperatures > 65 ^{O}F histogram (Figure 16a) and distribution by year (1943-1999) for Deadwood, SD (Figure 16b). On Figure 16a the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

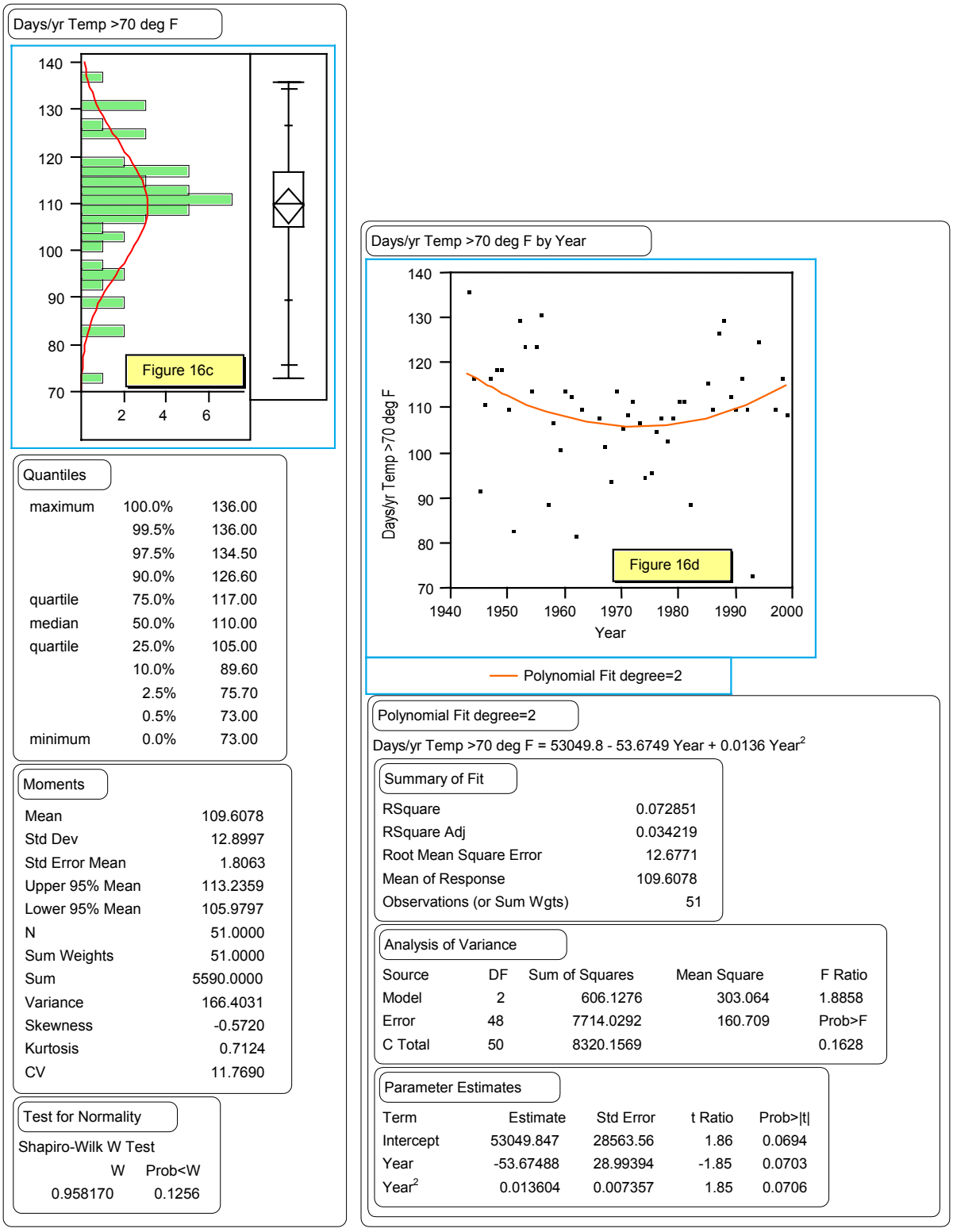


Figure 16. Number of days/yr with temperatures > 70 ^{O}F histogram (Figure 16c) and distribution by year (1943-1999) for Deadwood, SD (Figure 16d). On Figure 16c the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

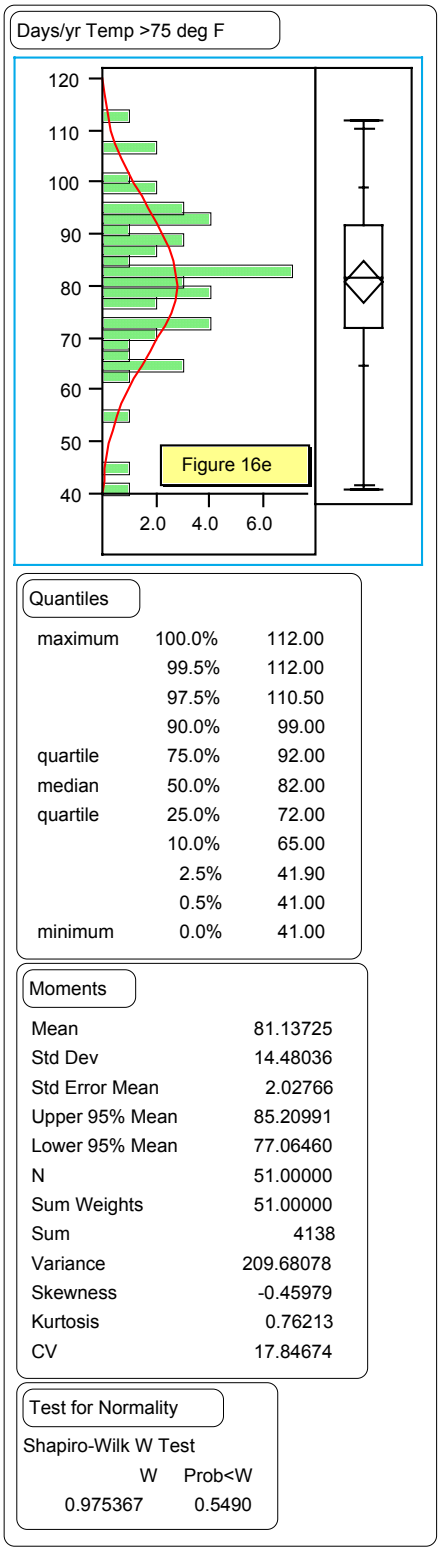


Figure 16. Number of days/yr with temperatures > 75 ^{O}F histogram (Figure 16e) and distribution by year (1943-1999) for Deadwood, SD (Figure 16f). On Figure 16e the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

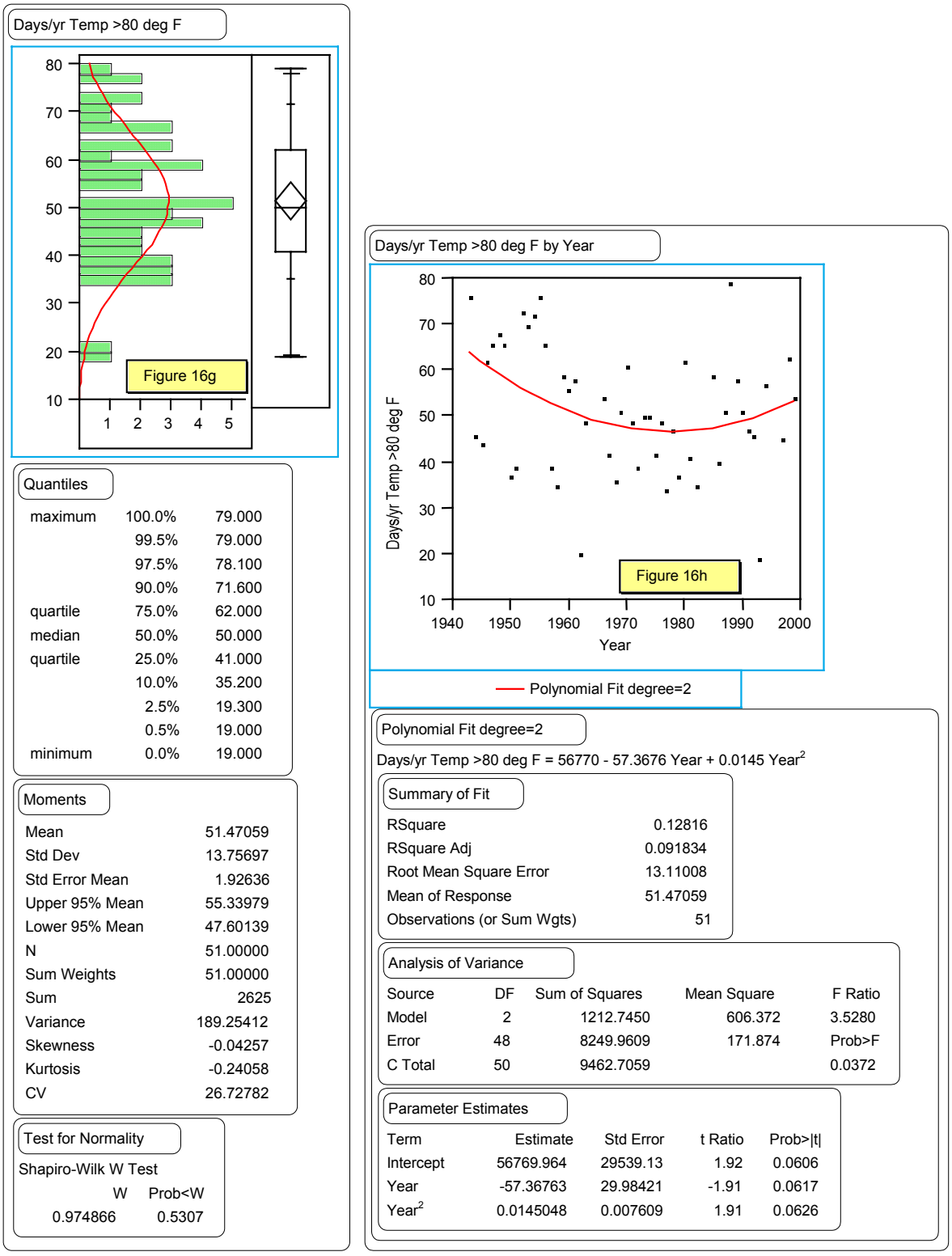


Figure 16. Number of days/yr with temperatures > 80 ^{O}F histogram (Figure 16g) and distribution by year (1943-1999) for Deadwood, SD (Figure 16h). On Figure 16g the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

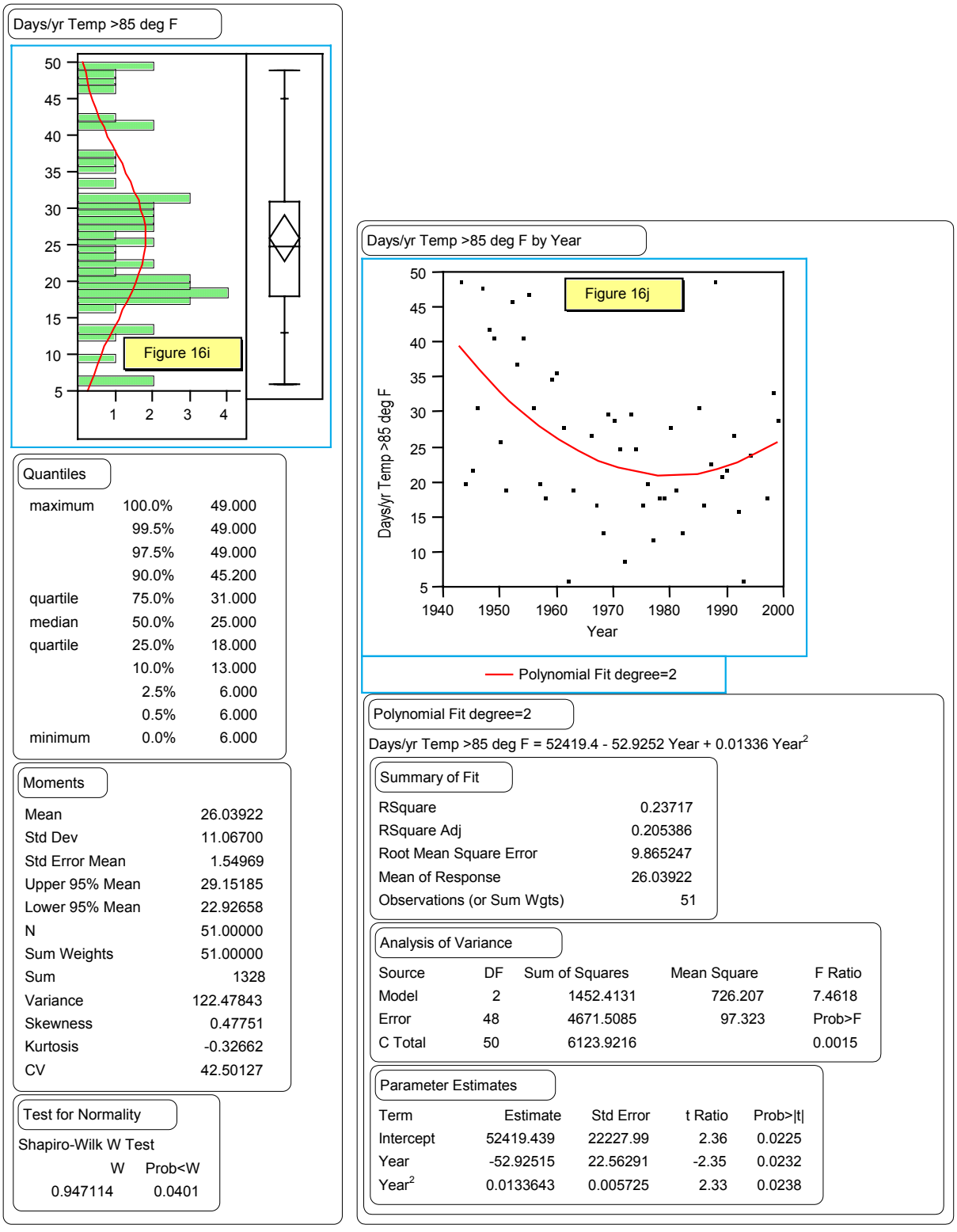


Figure 16. Number of days/yr with temperatures > 85 ^{O}F histogram (Figure 16i) and distribution by year (1943-1999) for Deadwood, SD (Figure 16j). On Figure 16i the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

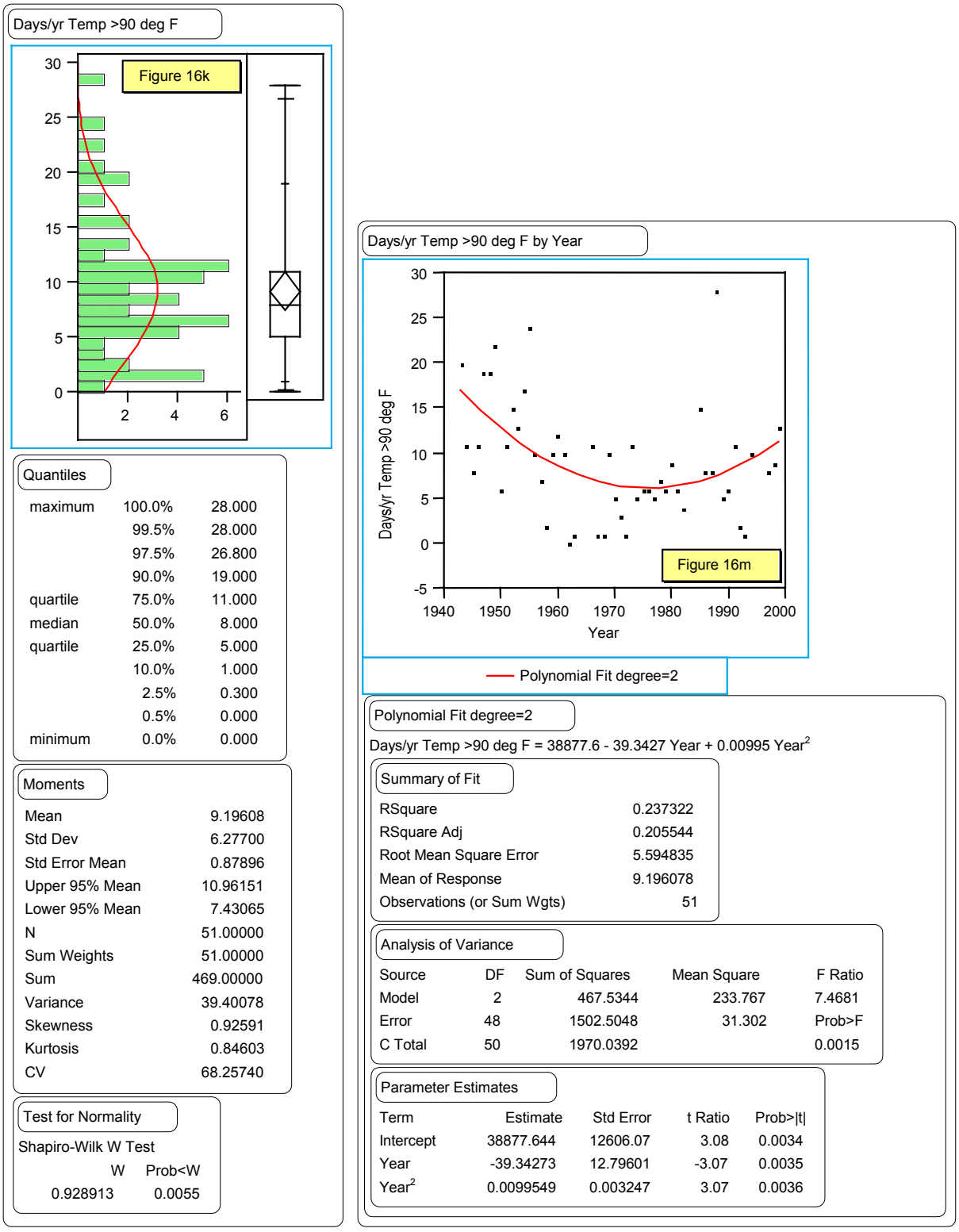


Figure 16. Number of days/yr with temperatures > 90 ^{O}F histogram (Figure 16k) and distribution by year (1943-1999) for Deadwood, SD (Figure 16m). On Figure 16k the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

Daily Temperature Extremes – maximum, minimum, and average

The distribution (histograms) of the daily maximum, minimum, and average temperatures (^{O}F) for each month (Figures 17a-17k and 17m) for Deadwood, SD (1943-1999) show interesting trends. None of the daily maximum temperature histograms were normally distributed (Figures 17a-1 thru 17m-1). The months of May, June, and July had normal distributions for the daily minimum and average temperatures. October had a normal distribution for daily minimum temperatures (Figure 17j-2). The histograms for the rest of the months were not normal for daily minimum and average temperatures. The highest recorded temperature at Deadwood, SD was 103 ^{O}F in August 1949, July 1952, and July 1954. The coldest recorded temperature at Deadwood, SD was –30 ^{O}F in January 1943 and December 1989.

PRECIPITATION – Monthly Information

Monthly Precipitation – 57 year averages

The monthly precipitation averages for the 57 years studied, 1943-1999, at Deadwood, SD are shown in Figure 18. The months with the highest average precipitation (>4 in.) are May and June while the months with the lowest average precipitation (<1.5 in.) are January, February, and December.

The distribution (histograms) of the monthly average precipitation for each month of the year (Figures 19a, 19c, 19e, 19g, 19i, 19k, 19n, 19q, 19s, 19u, 19w, and 19y) and as a function of year (Figures 19b, 19d, 19f, 19h, 19j, 19m, 19p, 19r, 19t, 19v, 19x, and 19z) at Deadwood, SD (1943-1999) show interesting results. Only April (Figure 19g) and December (Figure 19y) had normal distributions for monthly precipitation levels. The highest monthly precipitation levels were 18.6 in. in May 1946 and 15.99 in. in May 1982. Ten months had no significant trend when average monthly precipitation and year were compared. October (Figure 19v) and December (Figure 19z) had significant trends [curvilinear (low point during 1960s and 1970s) and positive linear, respectively] when monthly total precipitation and year were compared.

The distribution (histogram) of Deadwood, SD annual precipitation data for 1943-1999 does not fit a normal distribution (Figure 20a). In addition, there was no significant trend when total annual precipitation and year (Figure 20b) were compared.

PRECIPTATION - Daily Information

1-Day Maximum Precipitation Totals

The histogram for 1-day maximum total precipitation (in.) on a yearly basis for the 57-year study period (1943-1999) for Deadwood, SD is shown in Figure 21a. The distribution is not normal and there was no significant trend when 1-day maximum precipitation was compared to year (Figure 21b). The probability of having days with total precipitation within a certain range is shown in Table 3. Every year there are more than 5 days/year that receive more than 1 in and 1 day in every 6 years receives a total of more than 4 inches/day.

7-Day Maximum Precipitation Totals

The distribution (histograms) of maximum 7-day total precipitation (in) for each month of the year (Figures 22a, 22c, 22e, 22g, 22i, 22k, 22n, 22q, 22s, 22u, 22w, and 22y) and as a function of year (Figures 22b, 22d, 22f, 22h, 22j, 22m, 22p, 22r, 22t, 22v, 22x, and 22z) at Deadwood, SD (1943-1999) show interesting results. No months had a normal distribution for maximum 7-day total precipitation levels. The highest 7-day precipitation totals were 12.9 in (May 1982) and

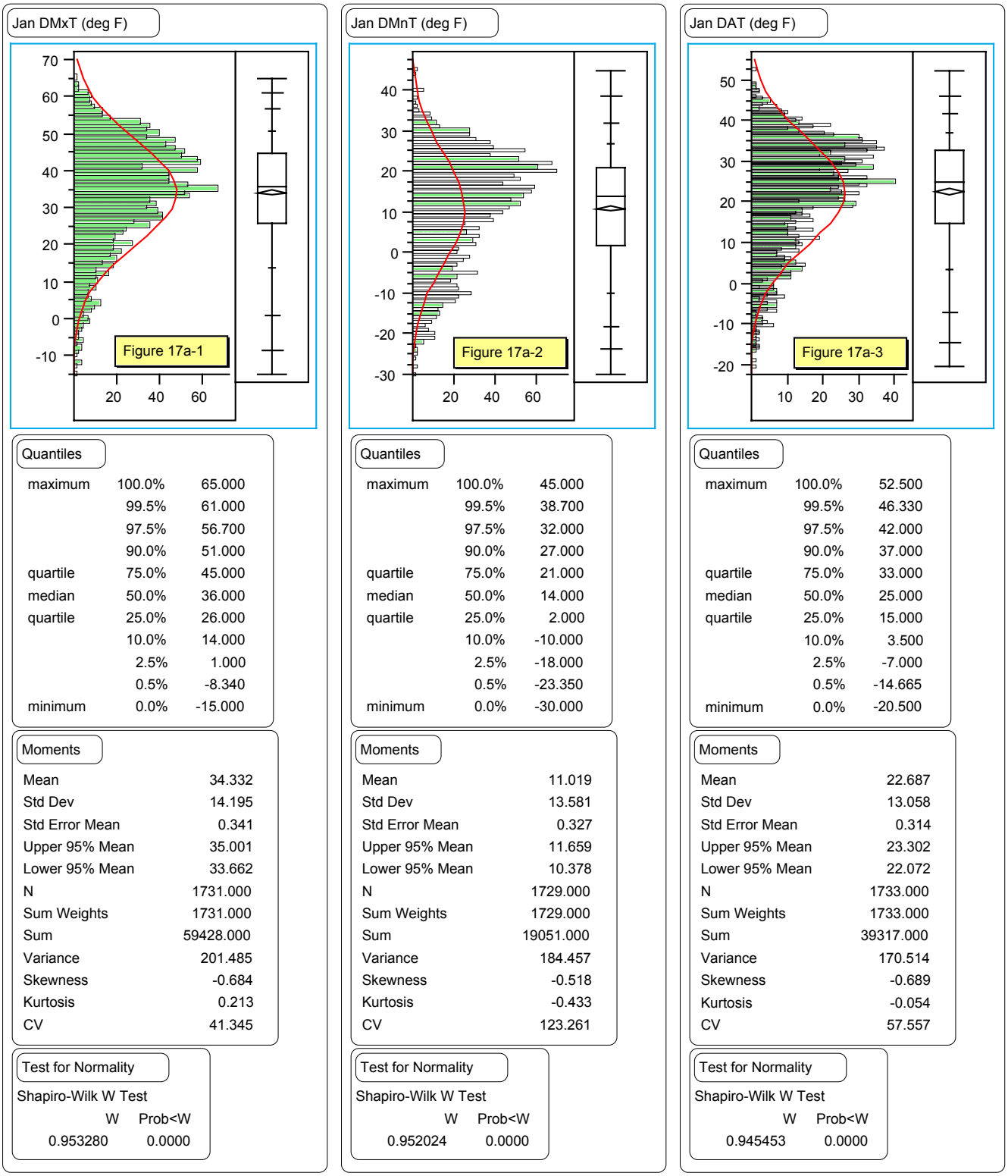


Figure 17a. Distribution of daily January temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

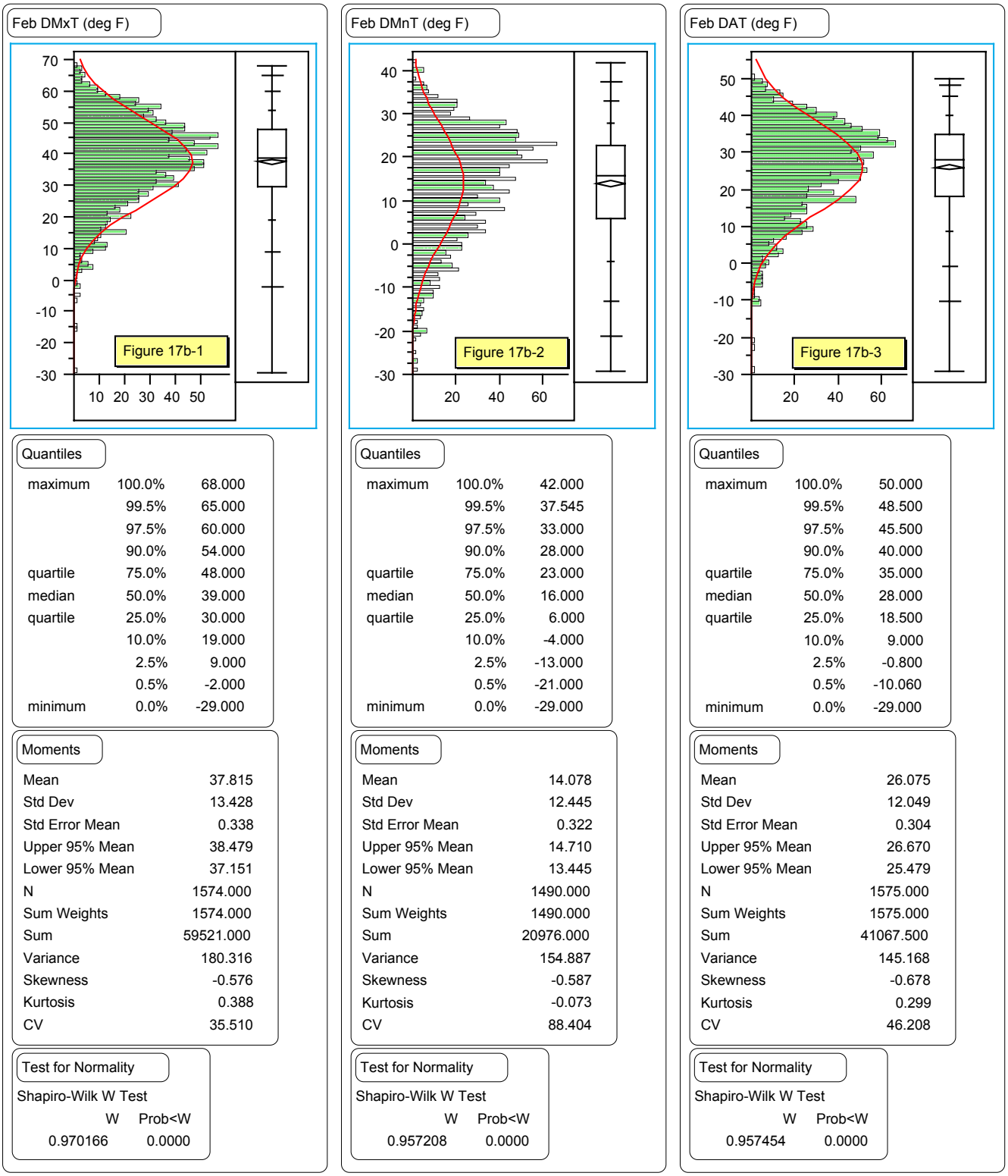


Figure 17b. Distribution of daily February temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

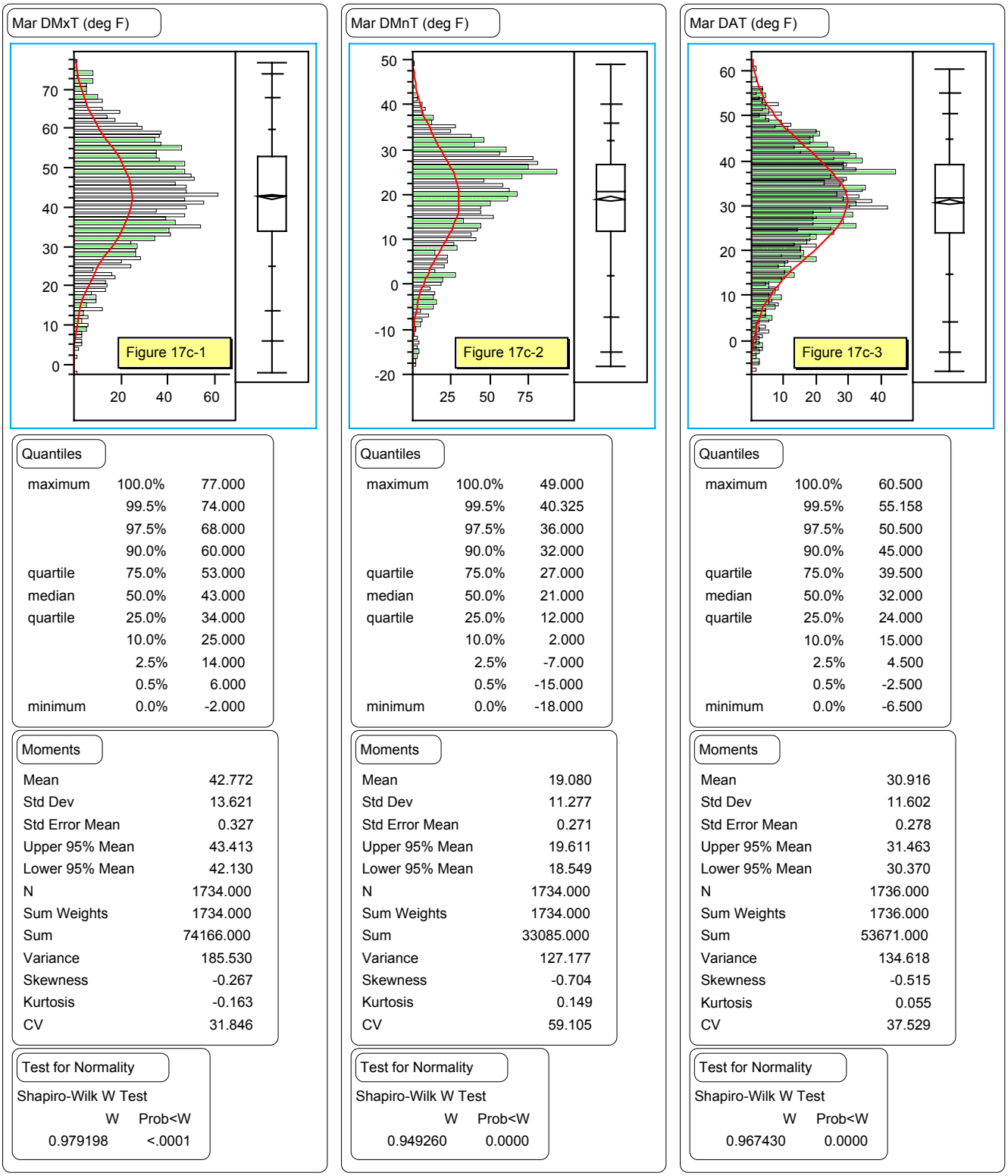


Figure 17c. Distribution of daily March temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

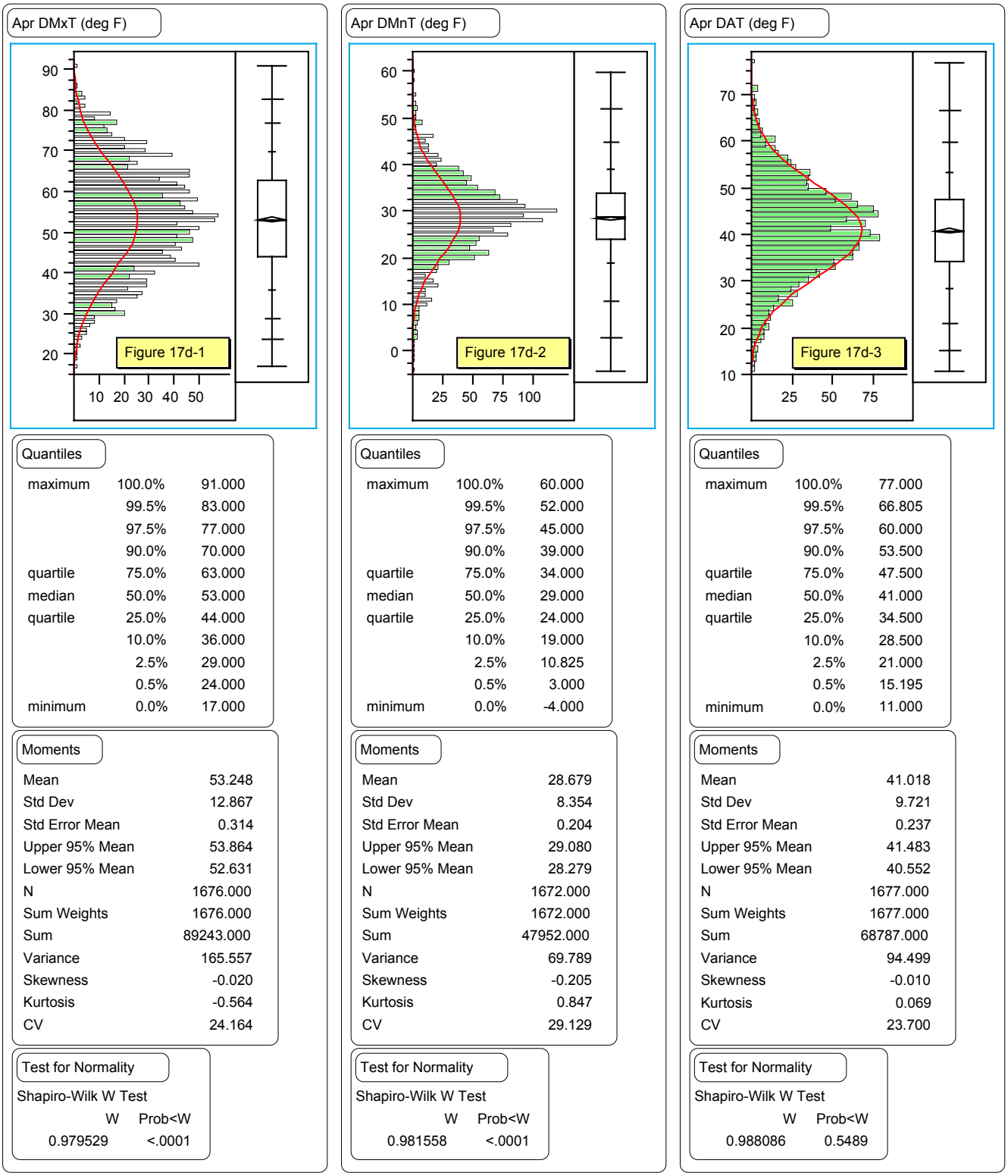


Figure 17d. Distribution of daily April temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

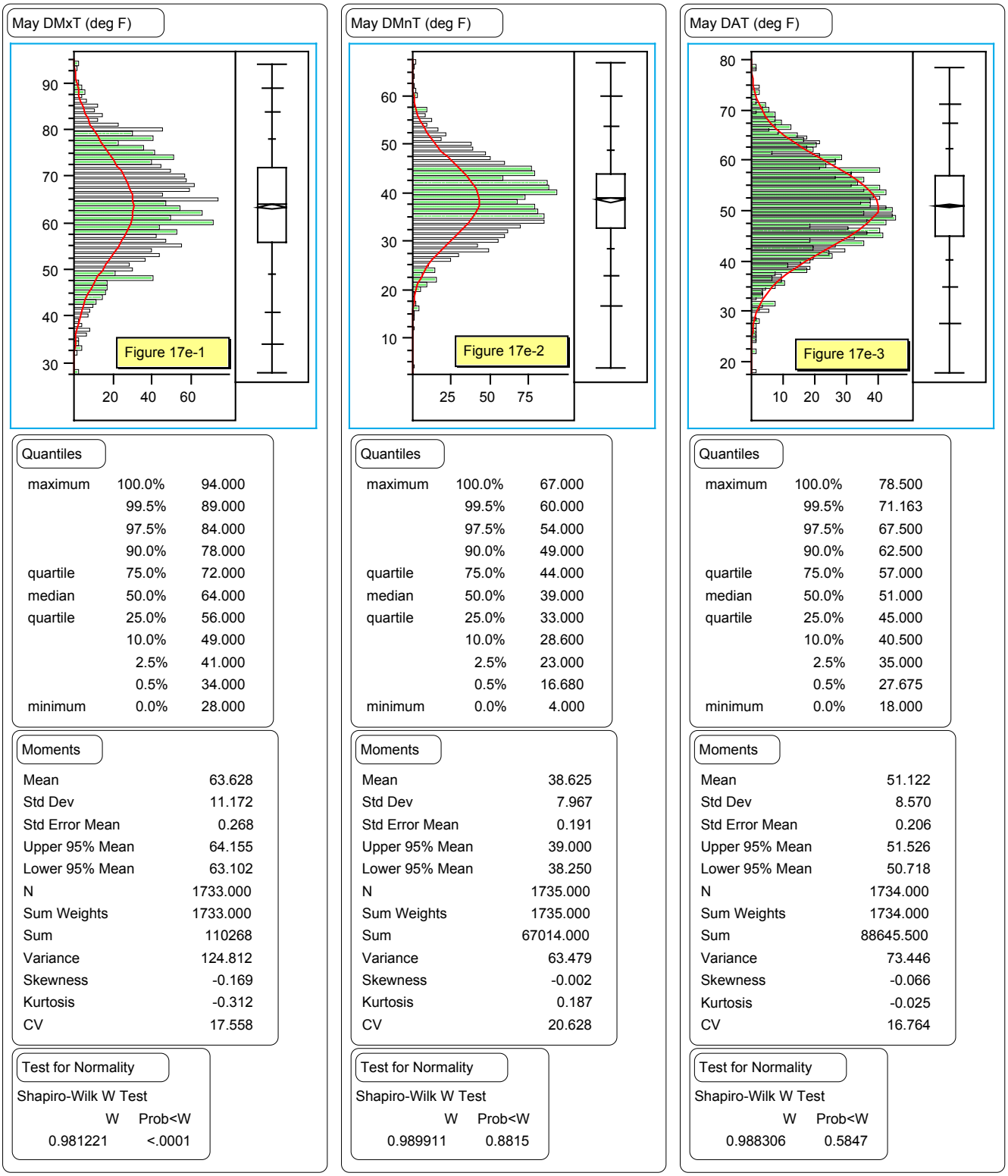


Figure 17e. Distribution of daily May temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

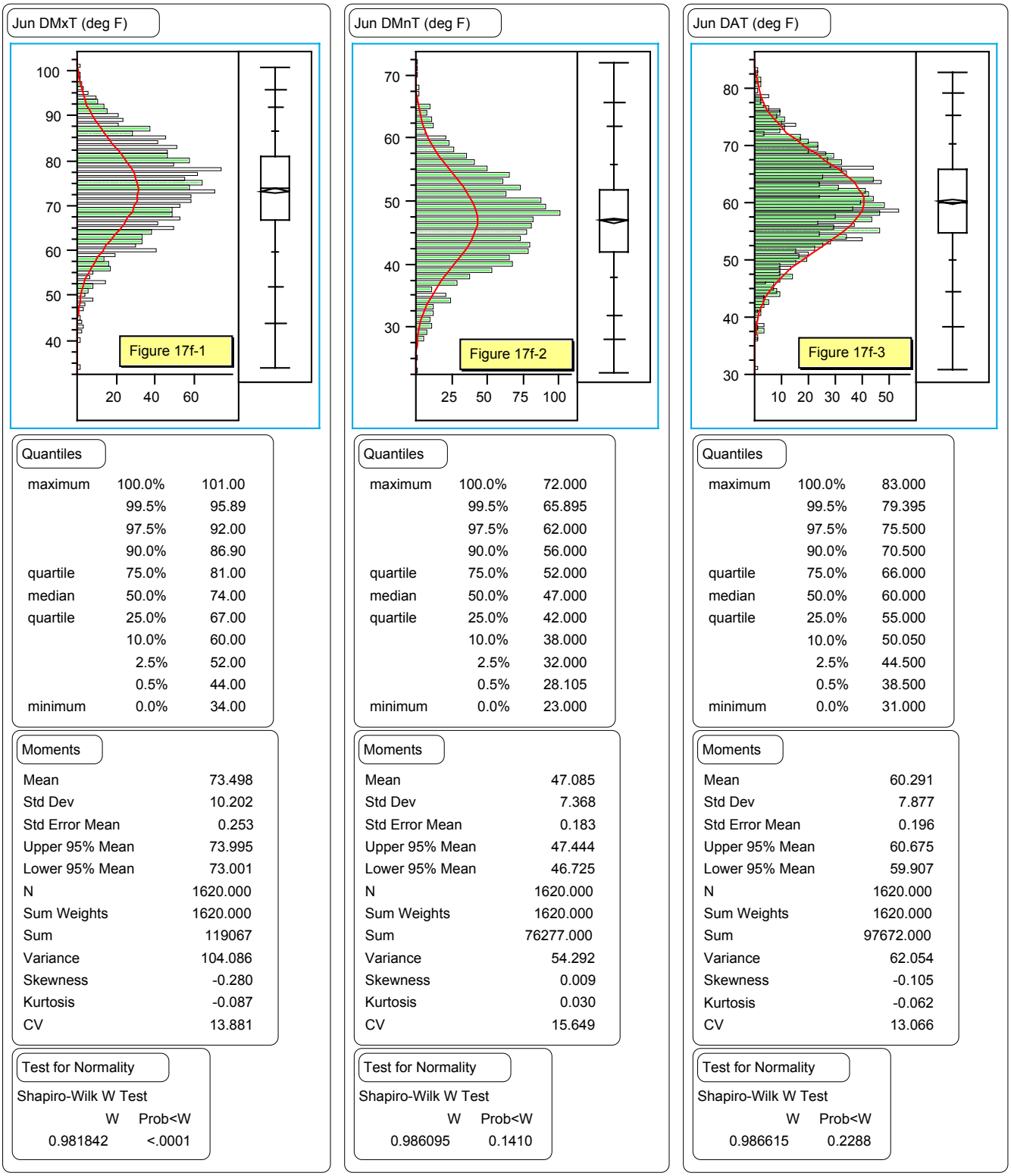


Figure 17f. Distribution of daily June temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

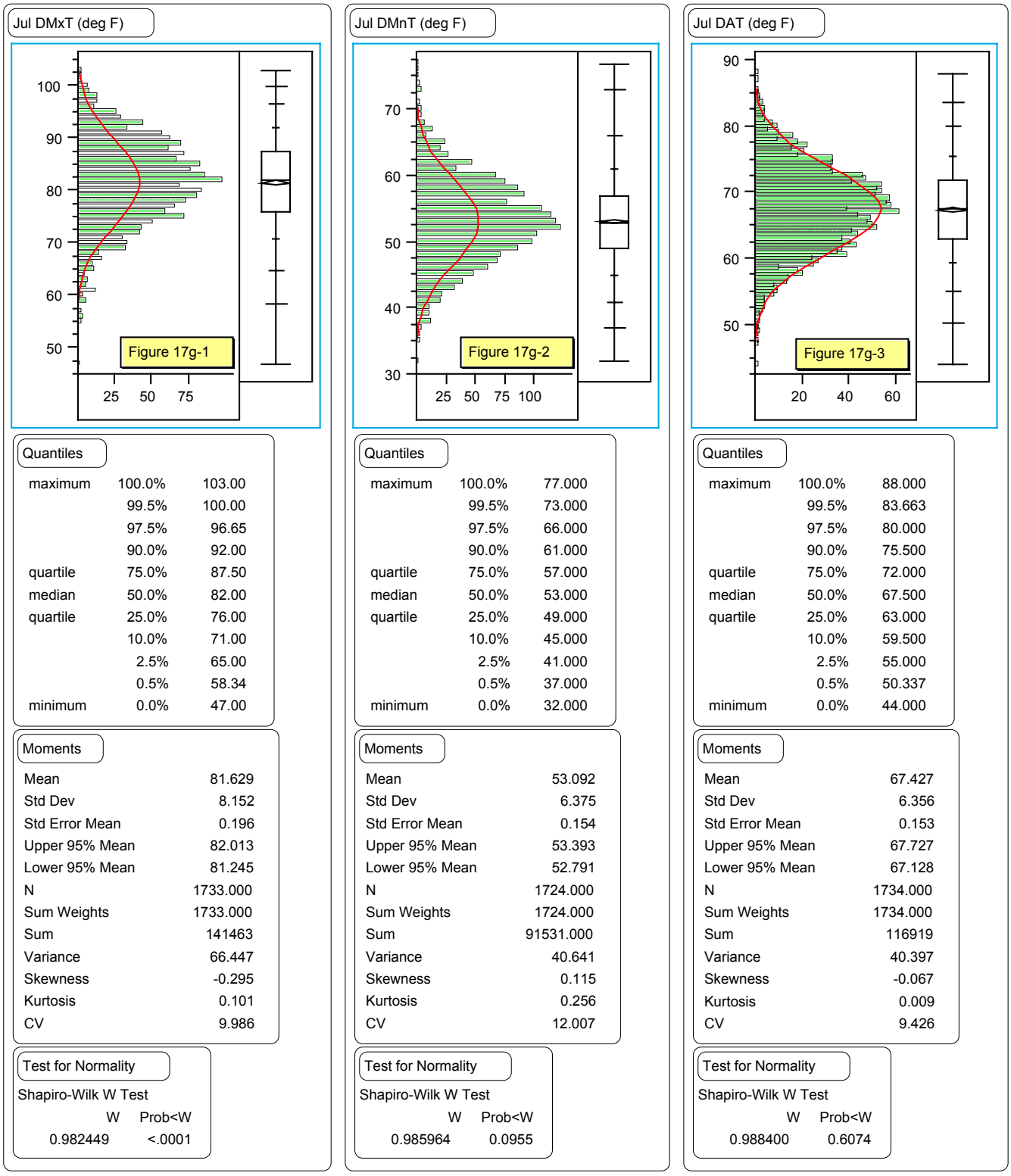


Figure 17g. Distribution of daily July temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

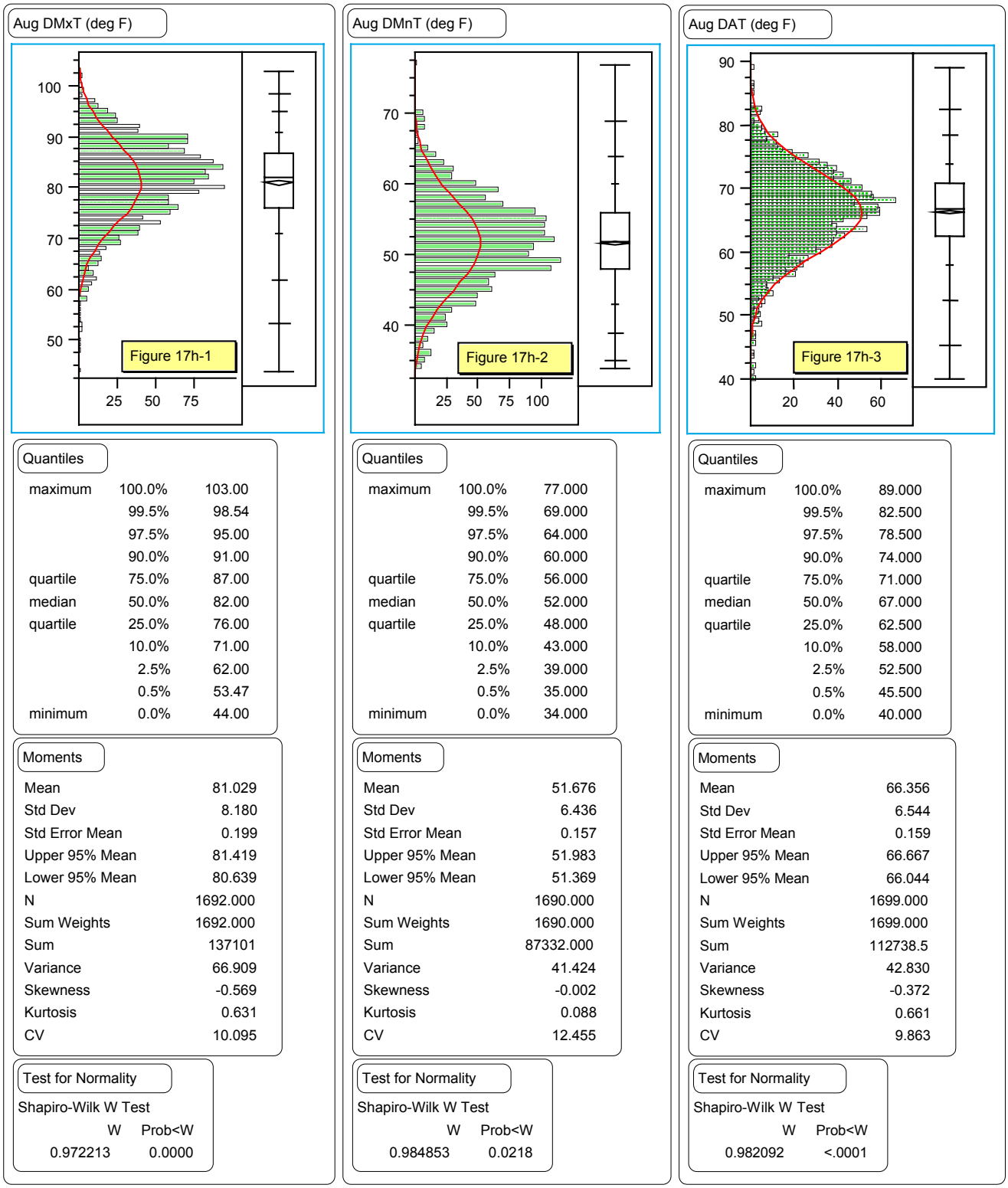


Figure 17h. Distribution of daily August temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

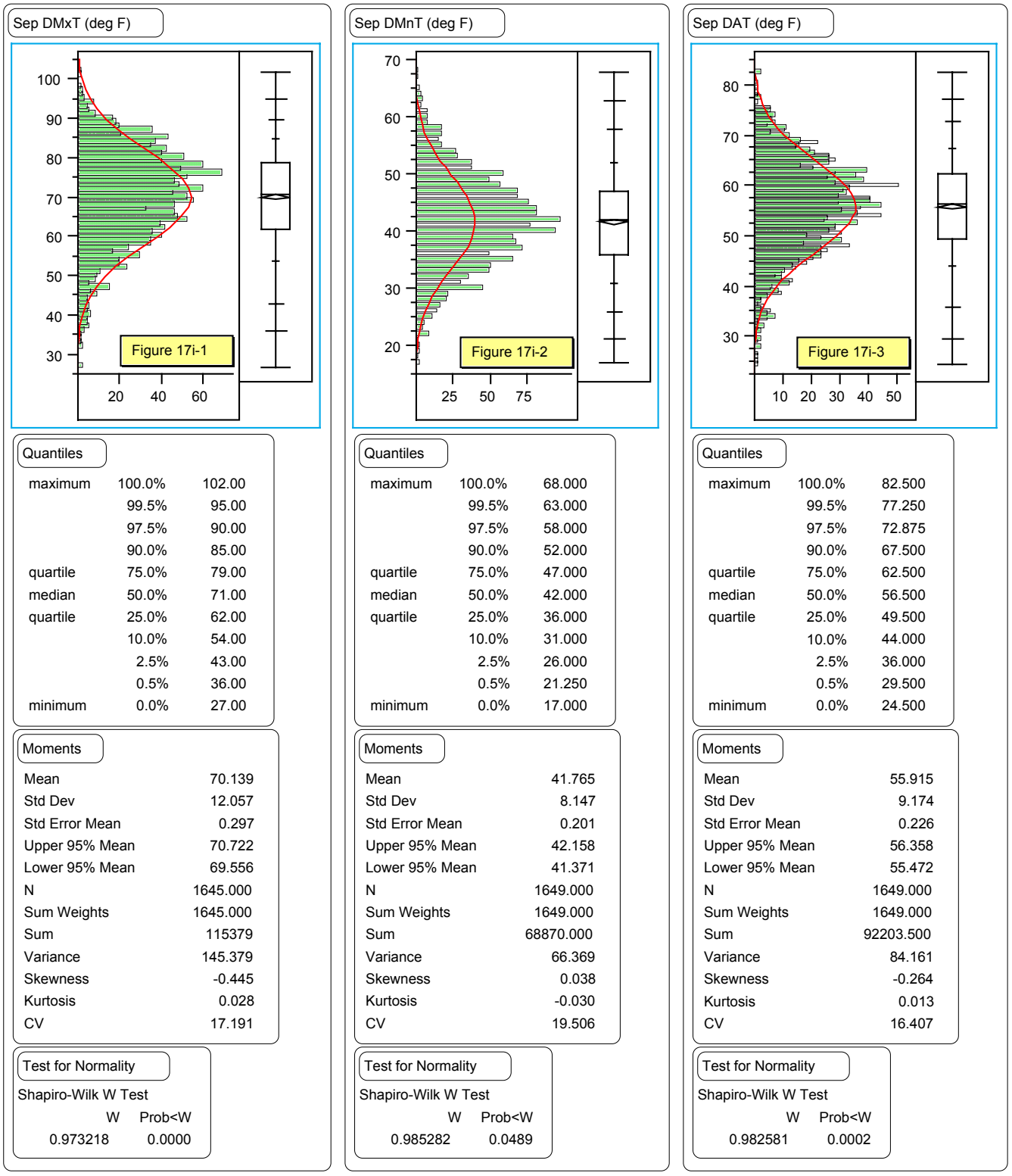


Figure 17i. Distribution of daily September temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

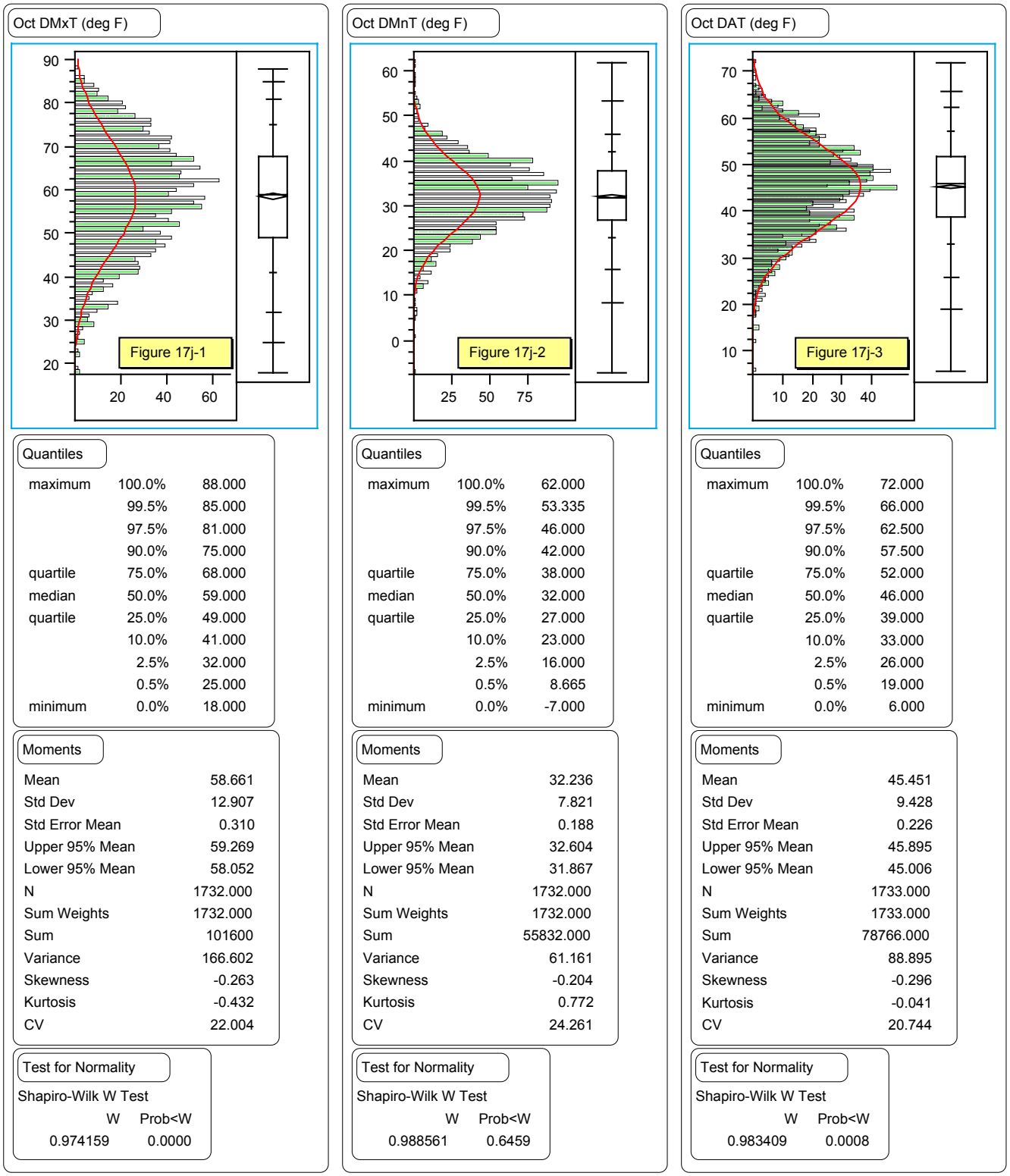


Figure 17j. Distribution of daily October temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

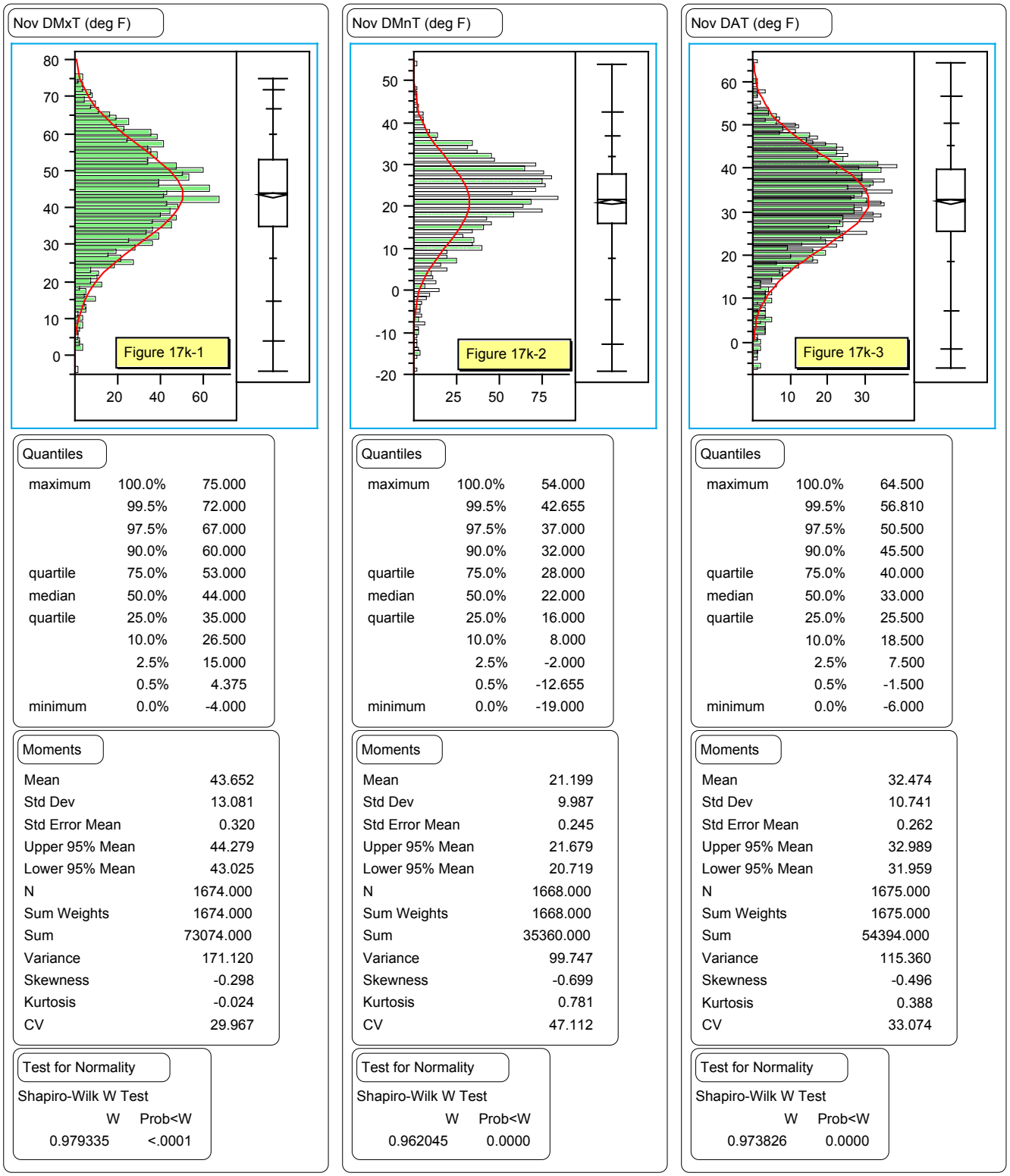


Figure 17k. Distribution of daily November temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

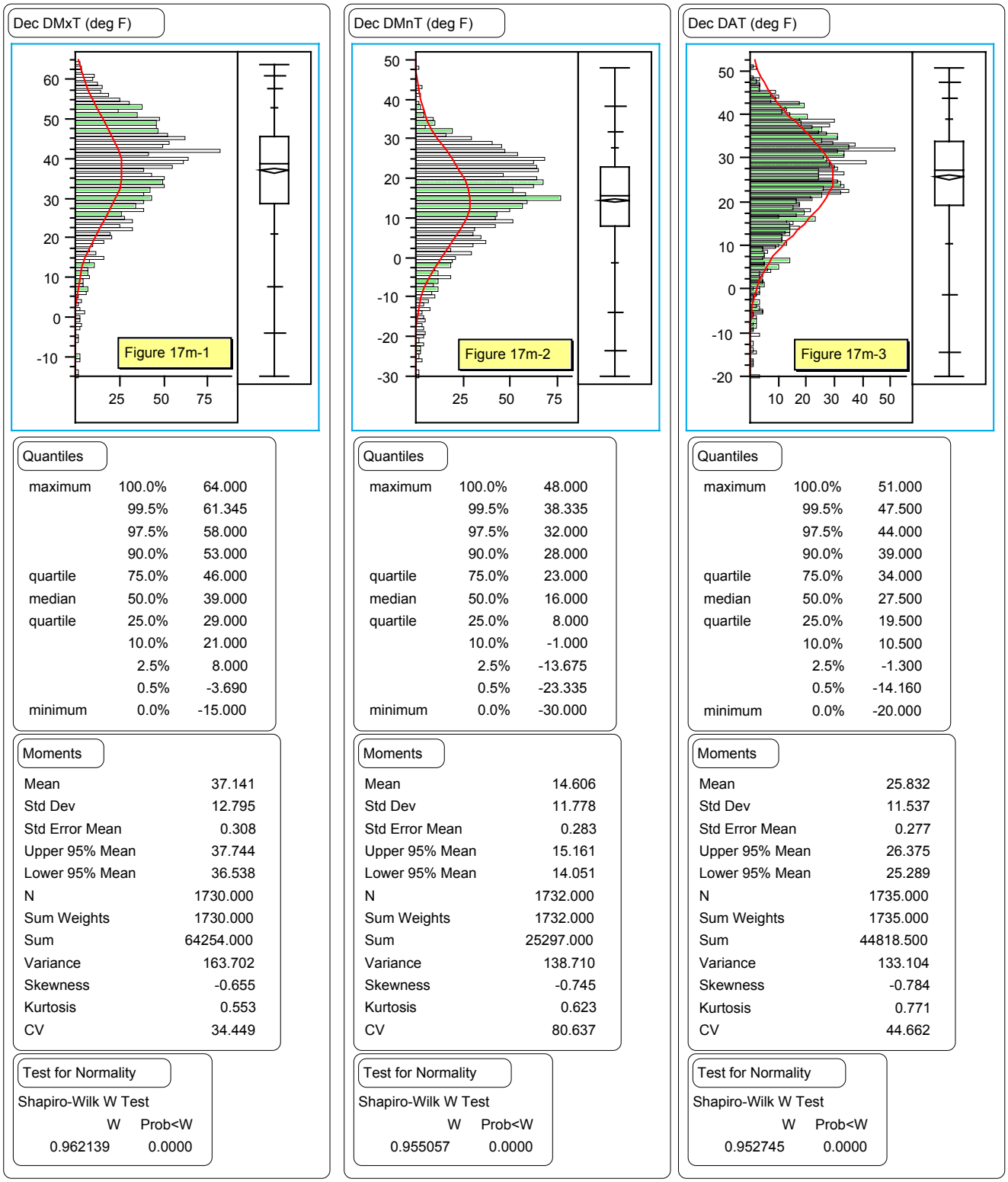


Figure 17m. Distribution of daily December temperatures (^{O}F) for Deadwood, SD (1943-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

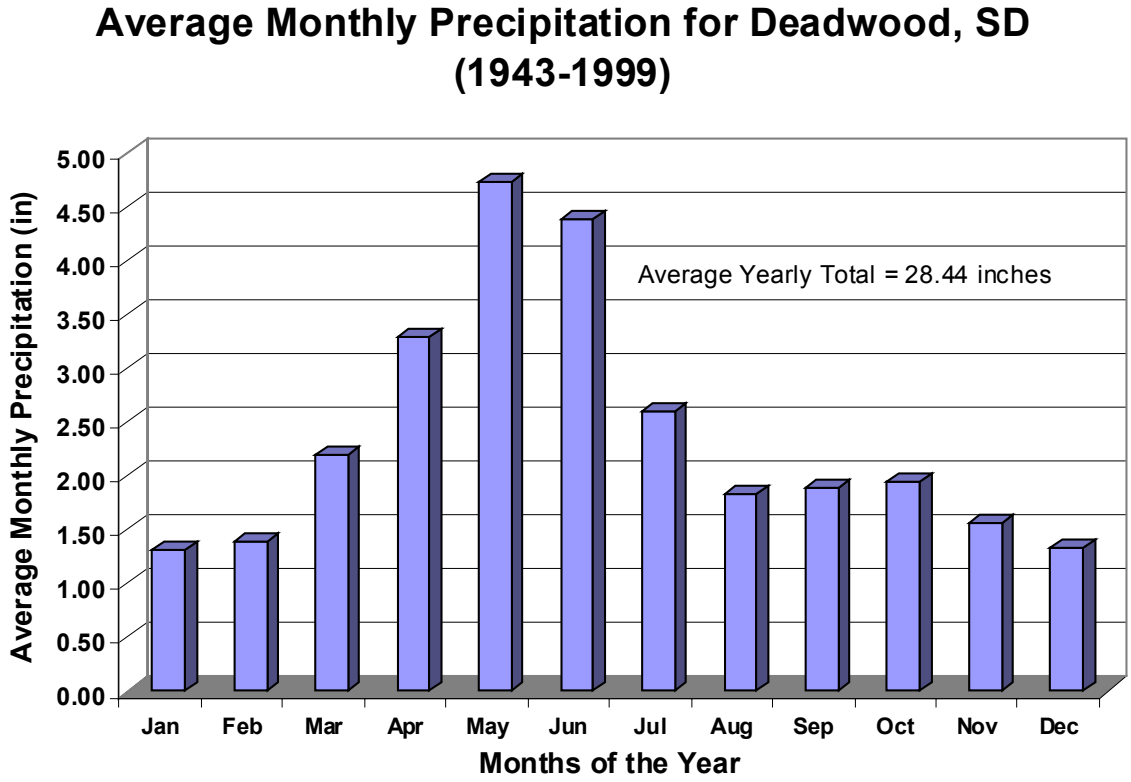


Figure 18. Average monthly precipitation (in) at Deadwood, SD for 1943-1999 (daily data from Bender 2000a).

10.5 in. (June 1976) while the lowest 7-day maximum precipitation of 0.0 in occurred numerous times during 1943-1999. No months had a significant trend when 7-day total precipitation (in) and yr were compared. Three months (January, October, and November) had curvilinear or linear upward trends (Figures 22b, 22v, and 22x, respectively) with $p \leq 0.11$ when 7-day maximum precipitation and year were compared.

Yearly 7-Day Maximum Precipitation Totals

The histogram for 7-day maximum total precipitation (in.) on a yearly basis for the 57-year study period (1943-1999) for Deadwood, SD is shown in Figure 23a. The distribution is not normal and there was no significant trend when 7-day maximum total precipitation was compared to year (Figure 23b).

7-Day Precipitation Totals by Month

The distribution (histograms) of the daily 7-day totals precipitation (in.) for each month (Figures 24a-24m) for Deadwood, SD for 1943-1999 show interesting trends. None of the histograms were normally distributed.

Maximum Daily Precipitation and Total Monthly Precipitation

The maximum daily precipitation received per month was significantly related (positive linear trend) to the total precipitation received that month (Figure 25).

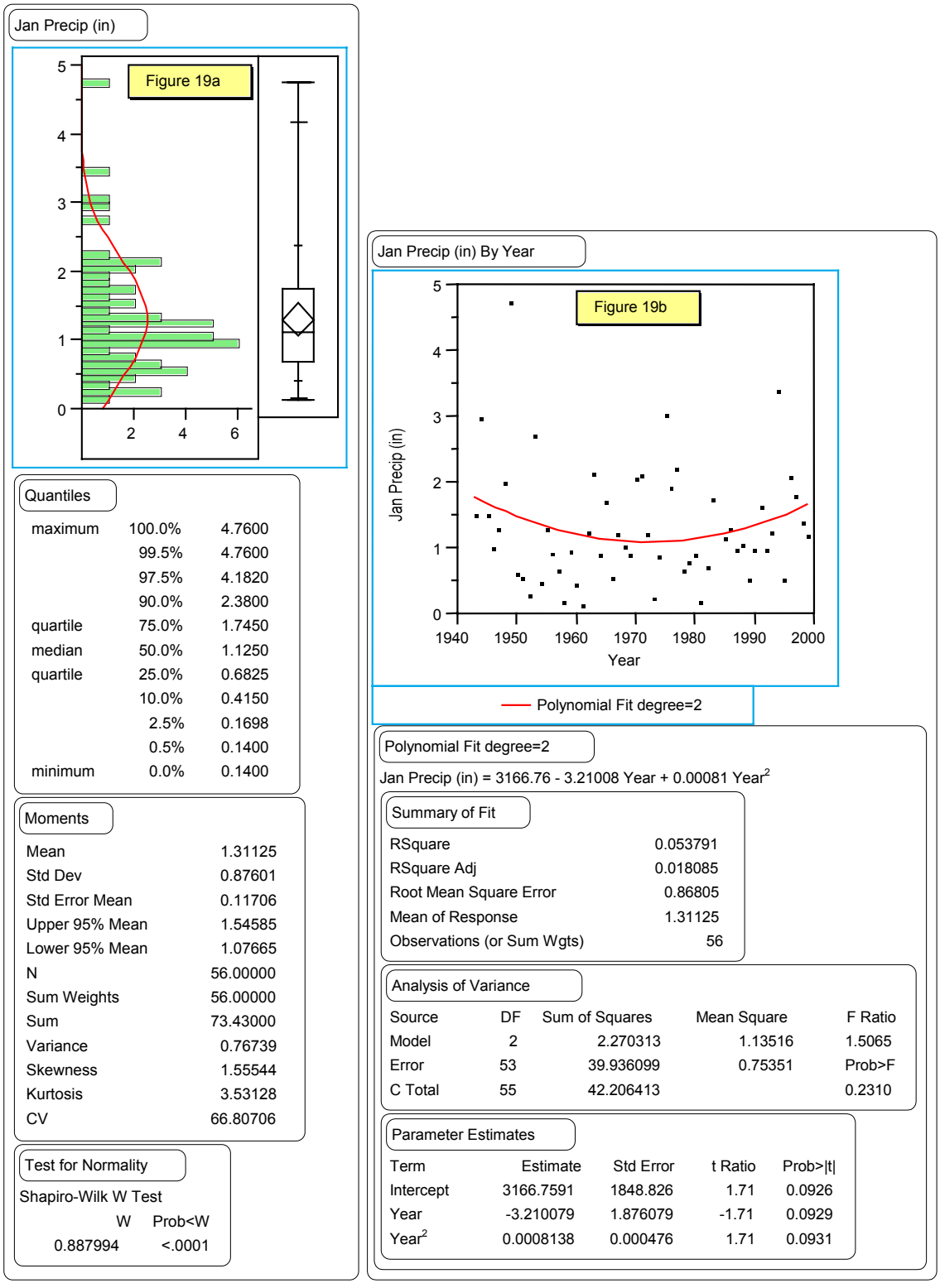


Figure 19. Monthly total precipitation (in) histogram for January (Figure 19a) and distribution through 1943-1999 (Figure 19b) for Deadwood, SD. On Figure 19a the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

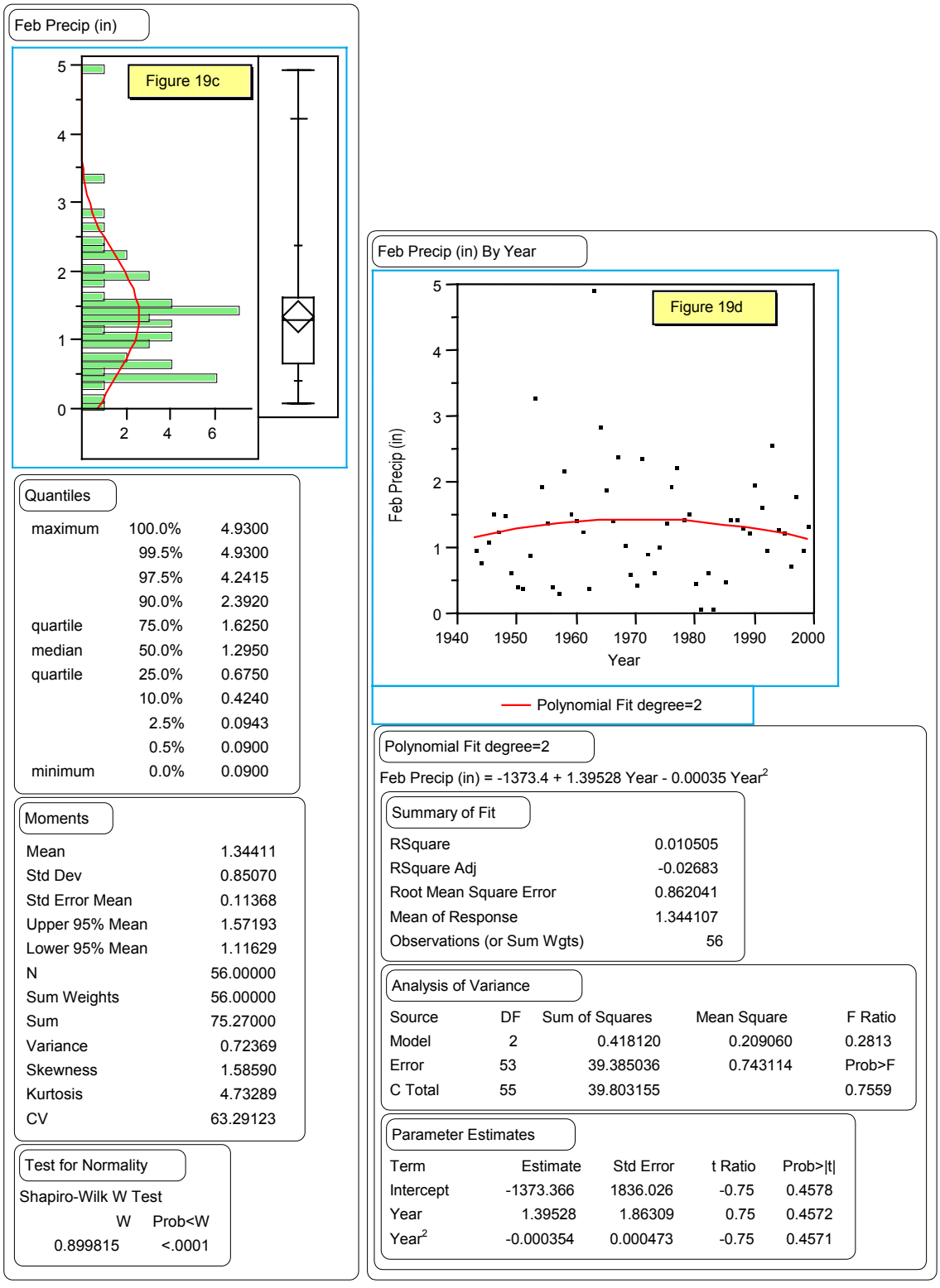
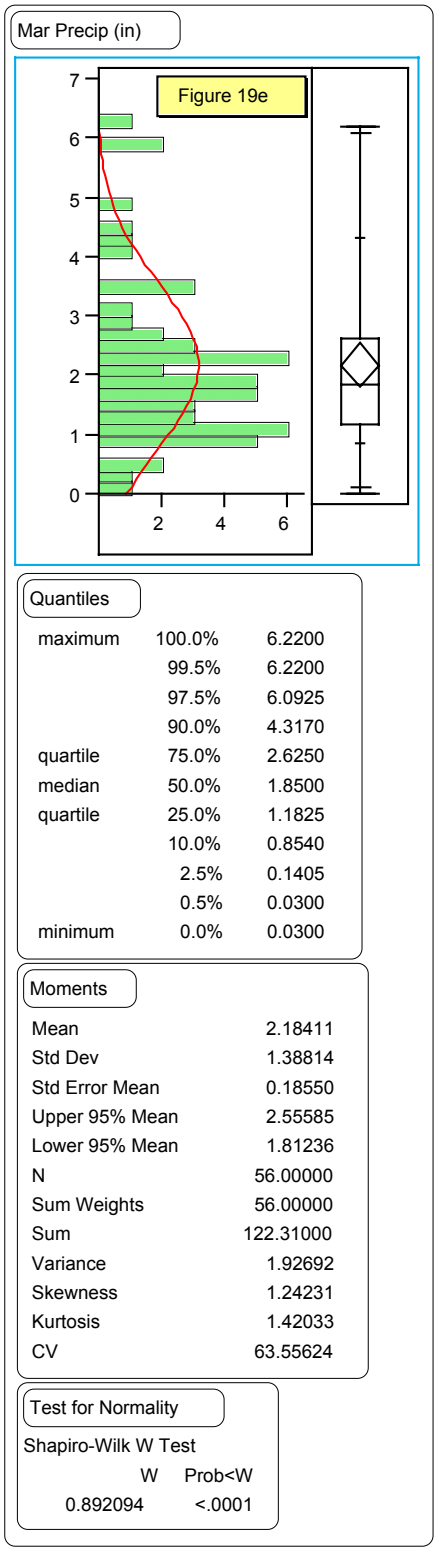


Figure 19. Monthly total precipitation (in) histogram for February (Figure 19c) and distribution through 1943-1999 (Figure 19d) for Deadwood, SD. On Figure 19c the Y axis = total precipitation (in) and the X axis = the number of years (frequency).



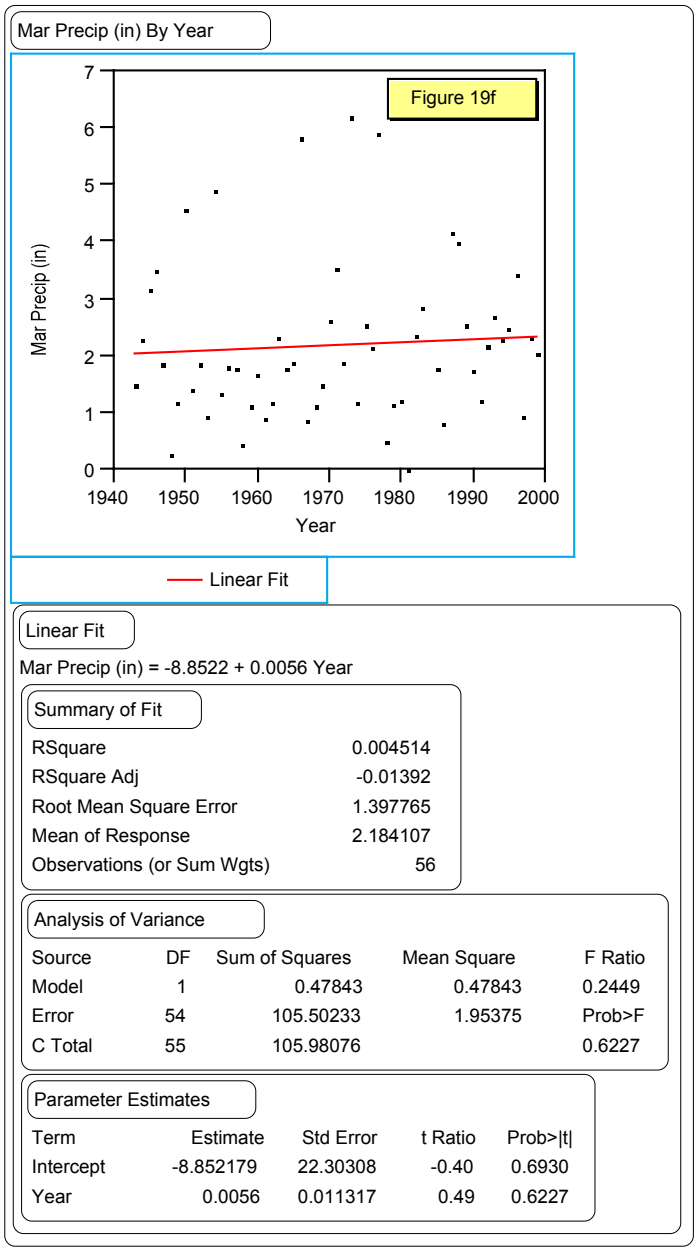
Quantiles		
maximum	100.0%	6.2200
	99.5%	6.2200
	97.5%	6.0925
	90.0%	4.3170
quartile	75.0%	2.6250
median	50.0%	1.8500
quartile	25.0%	1.1825
	10.0%	0.8540
	2.5%	0.1405
	0.5%	0.0300
minimum	0.0%	0.0300

Moments	
Mean	2.18411
Std Dev	1.38814
Std Error Mean	0.18550
Upper 95% Mean	2.55585
Lower 95% Mean	1.81236
N	56.00000
Sum Weights	56.00000
Sum	122.31000
Variance	1.92692
Skewness	1.24231
Kurtosis	1.42033
CV	63.55624

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.892094	<.0001



Linear Fit

Mar Precip (in) = -8.8522 + 0.0056 Year

Summary of Fit	
RSquare	0.004514
RSquare Adj	-0.01392
Root Mean Square Error	1.397765
Mean of Response	2.184107
Observations (or Sum Wgts)	56

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	0.47843	0.47843	0.2449
Error	54	105.50233	1.95375	Prob>F
C Total	55	105.98076		0.6227

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-8.852179	22.30308	-0.40	0.6930
Year	0.0056	0.011317	0.49	0.6227

Figure 19. Monthly total precipitation (in) histogram for March (Figure 19e) and distribution through 1943-1999 (Figure 19f) for Deadwood, SD. On Figure 19e the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

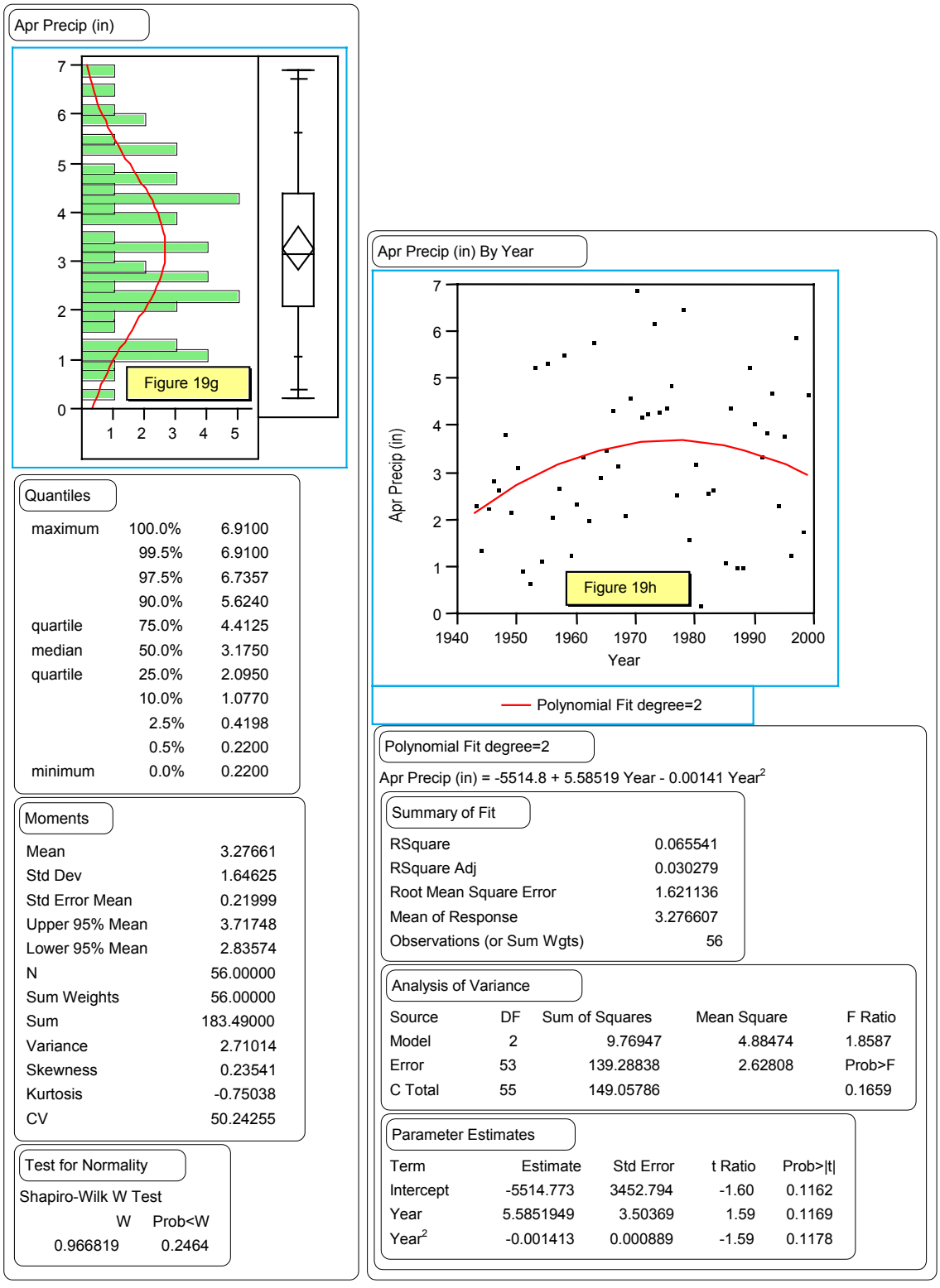


Figure 19. Monthly total precipitation (in) histogram for April (Figure 19g) and distribution through 1943-1999 (Figure 19h) for Deadwood, SD. On Figure 19g the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

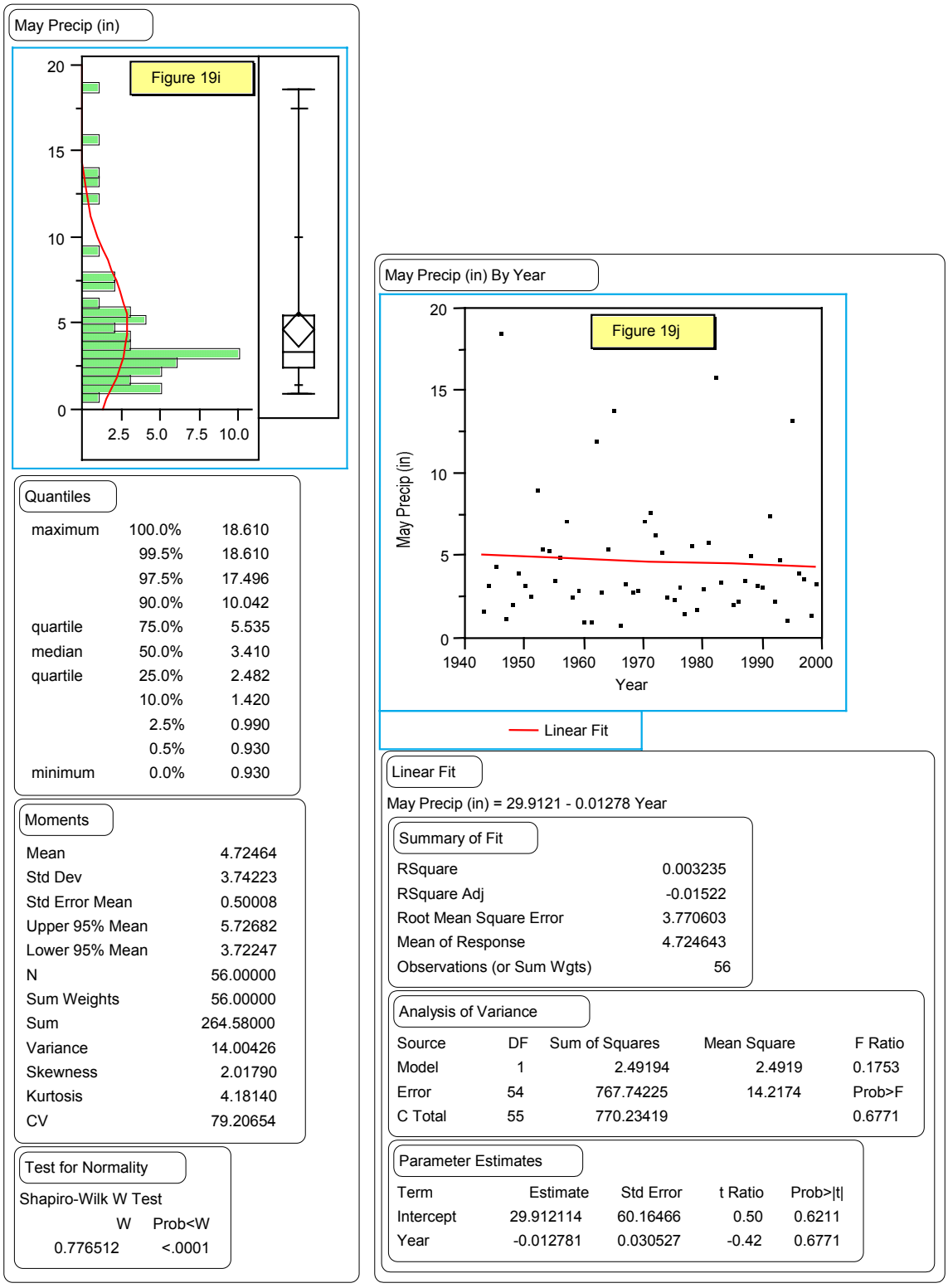


Figure 19. Monthly total precipitation (in) histogram for May (Figure 19i) and distribution through 1943-1999 (Figure 19j) for Deadwood, SD. On Figure 19i the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

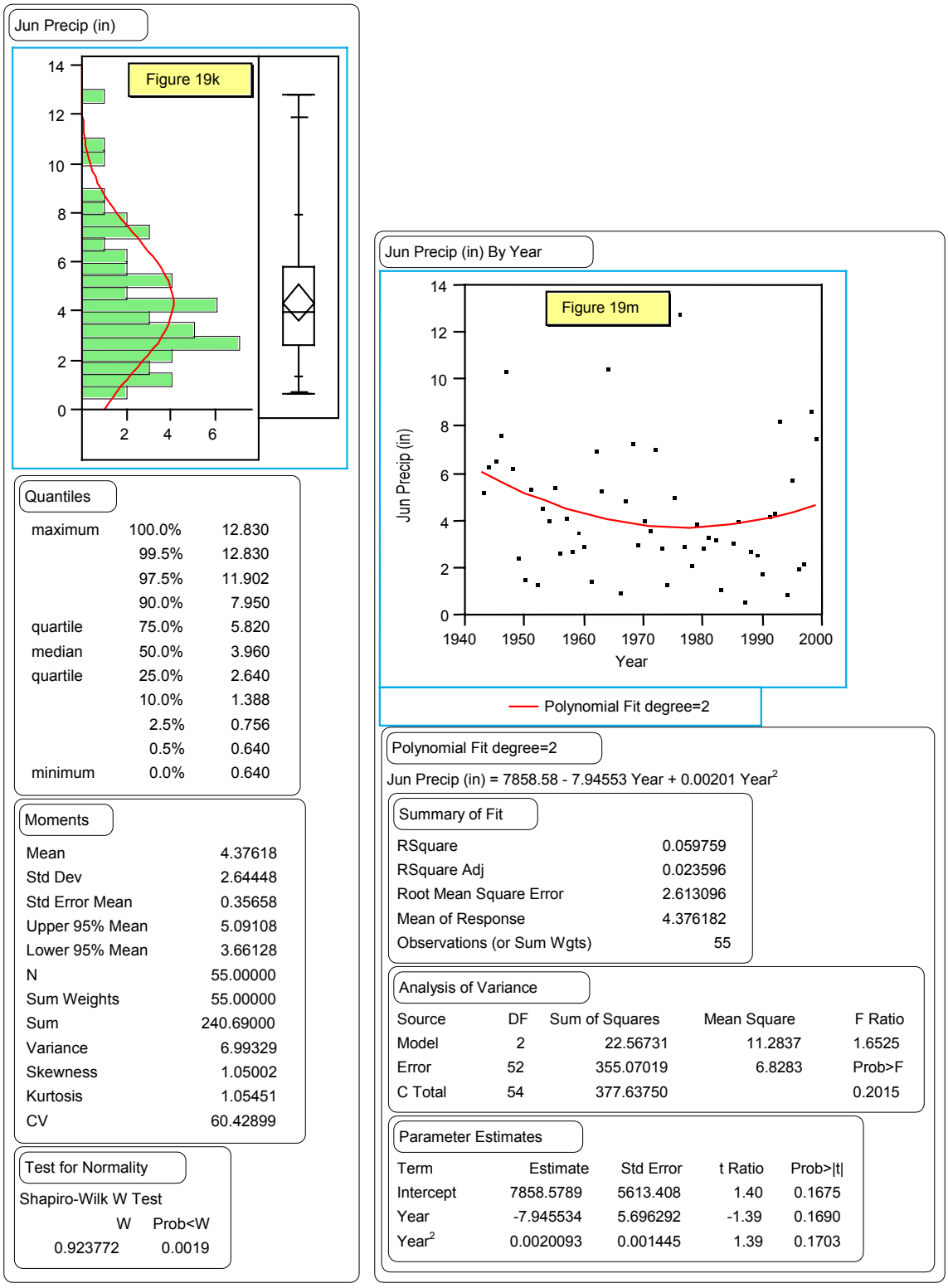


Figure 19. Monthly total precipitation (in) histogram for June (Figure 19k) and distribution through 1943-1999 (Figure 19m) for Deadwood, SD. On Figure 19k the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

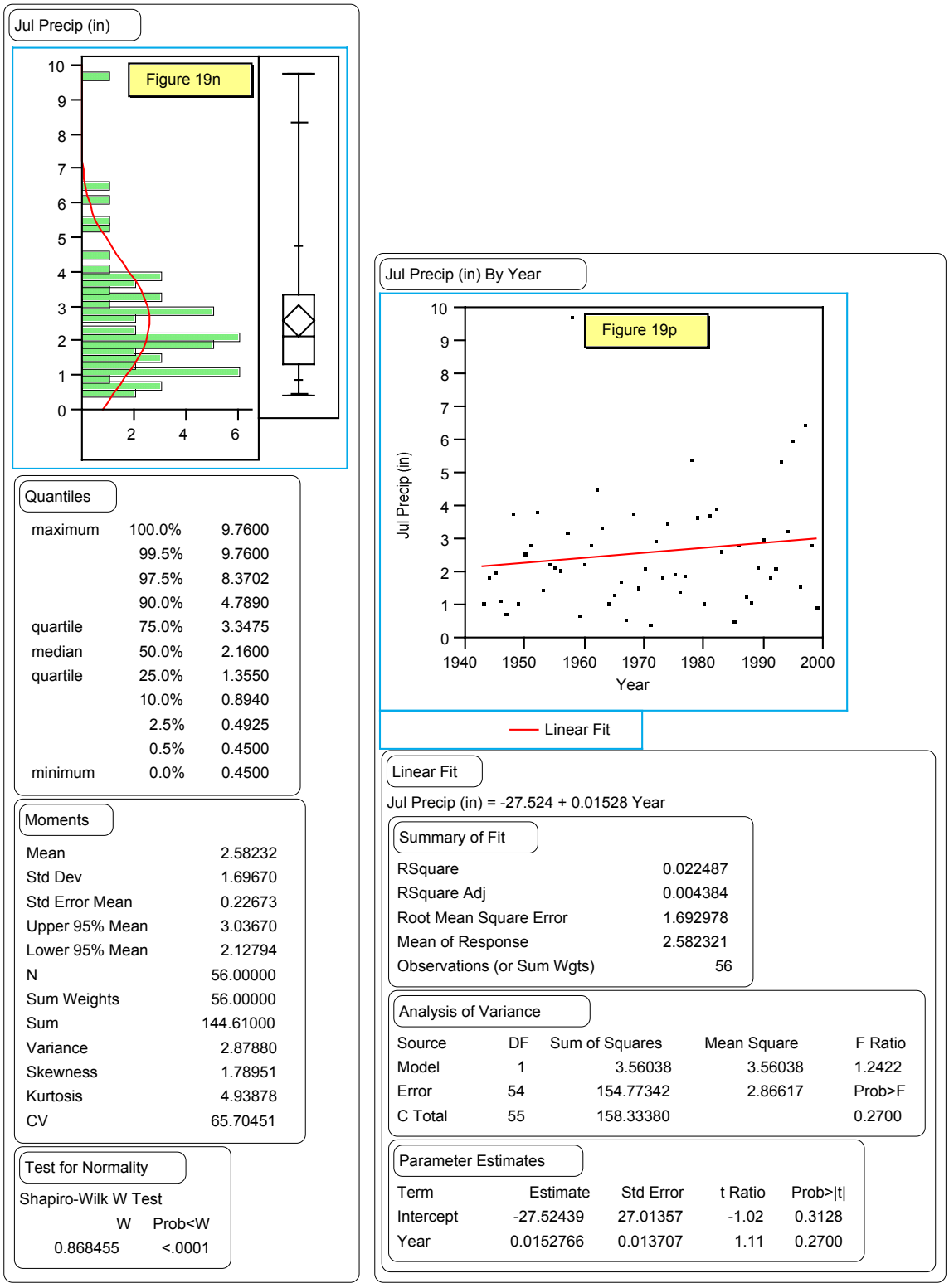


Figure 19. Monthly total precipitation (in) histogram for July (Figure 19n) and distribution through 1943-1999 (Figure 19p) for Deadwood, SD. On Figure 19n the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

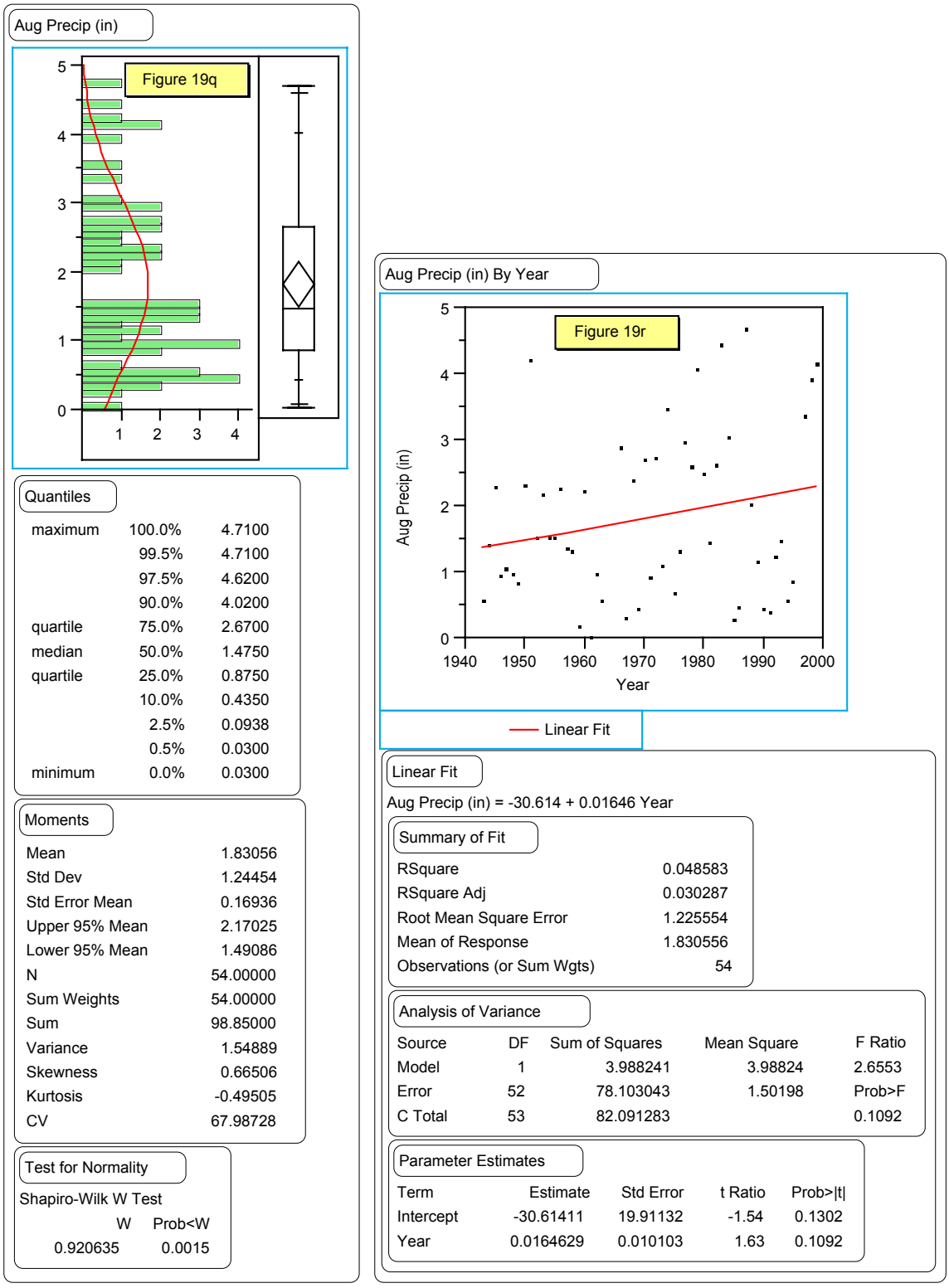


Figure 19. Monthly total precipitation (in) histogram for August (Figure 19q) and distribution through 1943-1999 (Figure 19r) for Deadwood, SD. On Figure 19q the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

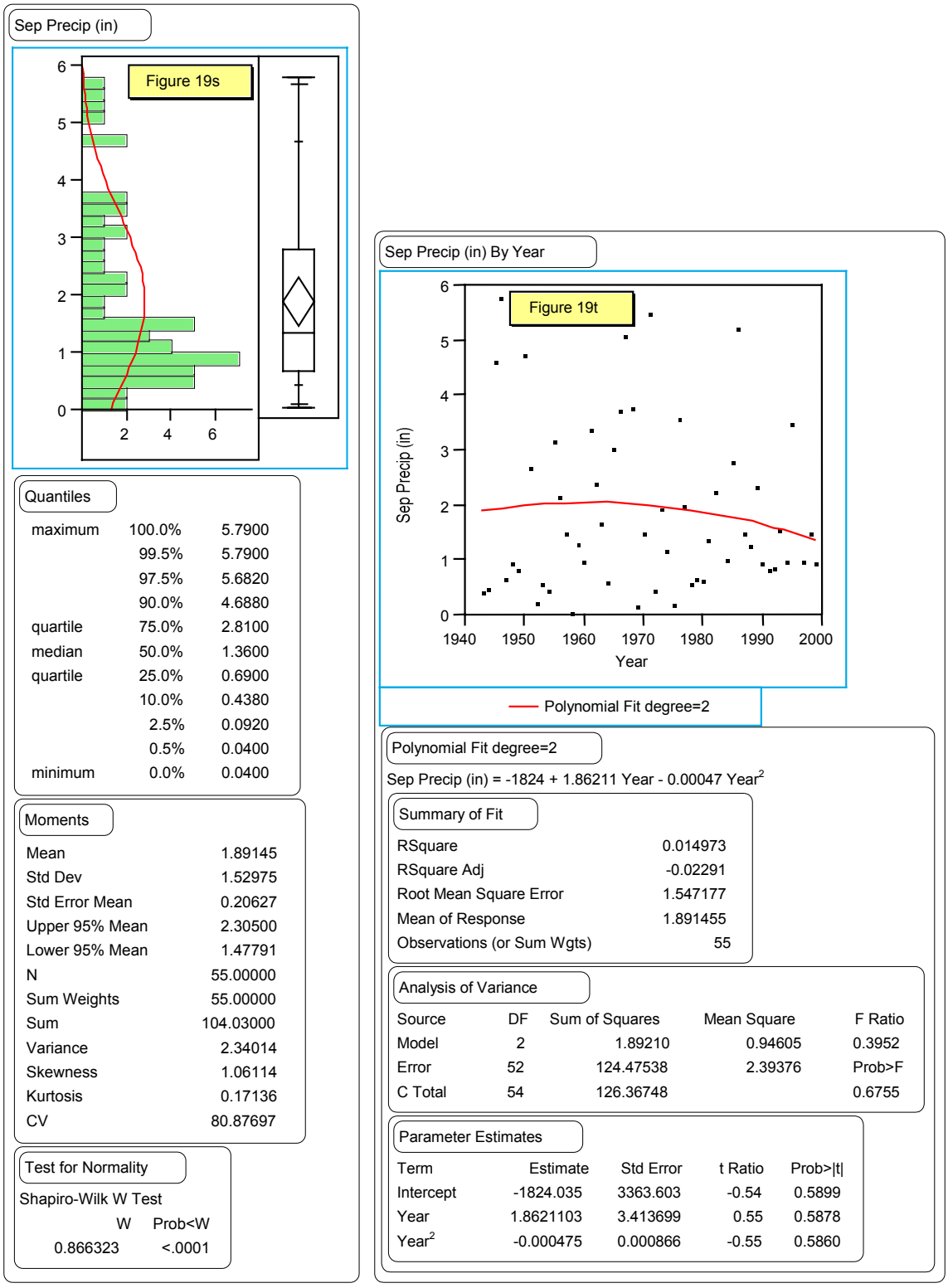


Figure 19. Monthly total precipitation (in) histogram for September (Figure 19s) and distribution through 1943-1999 (Figure 19t) for Deadwood, SD. On Figure 19s the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

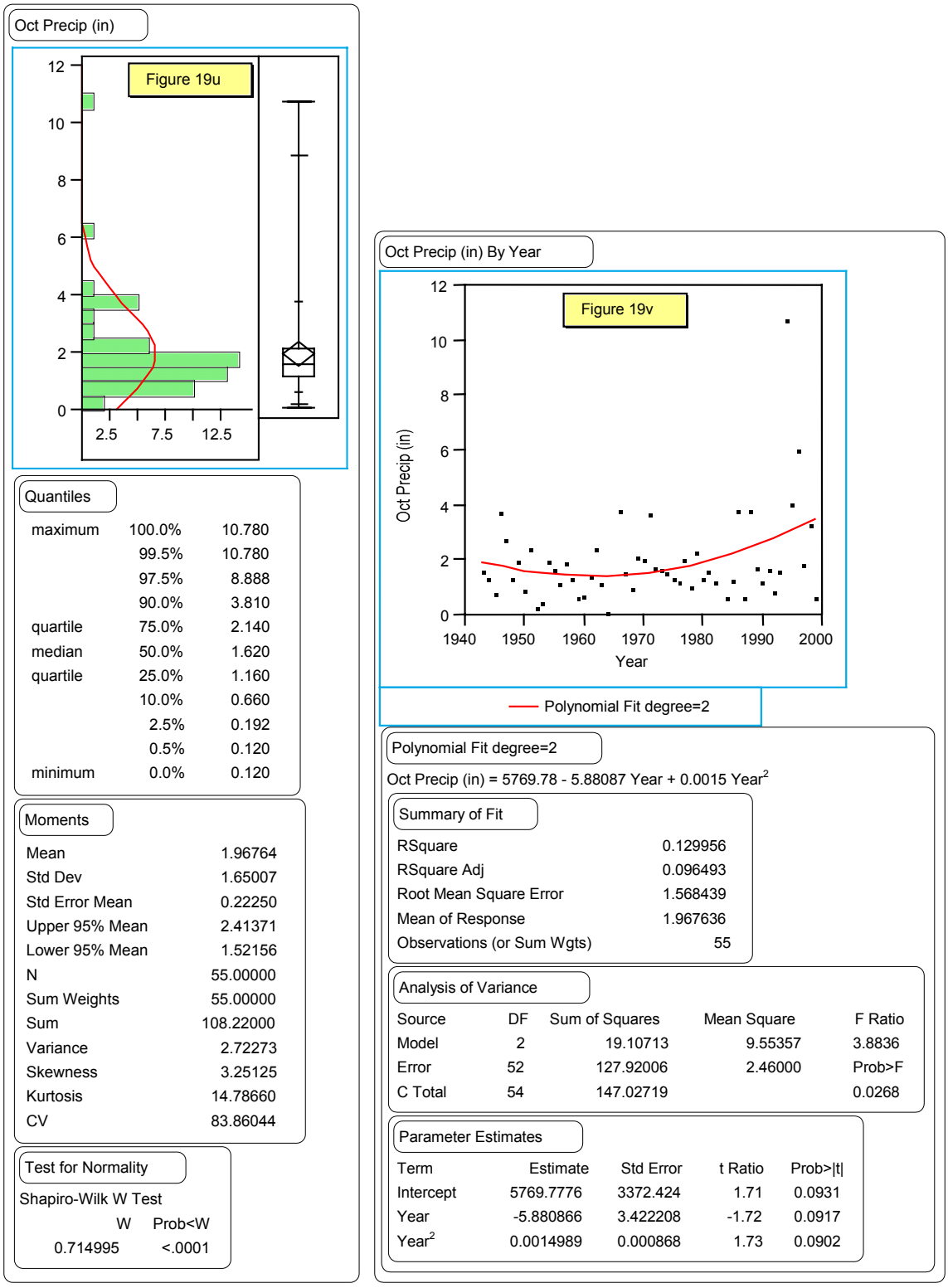


Figure 19. Monthly total precipitation (in) histogram for October (Figure 19u) and distribution through 1943-1999 (Figure 19v) for Deadwood, SD. On Figure 19u the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

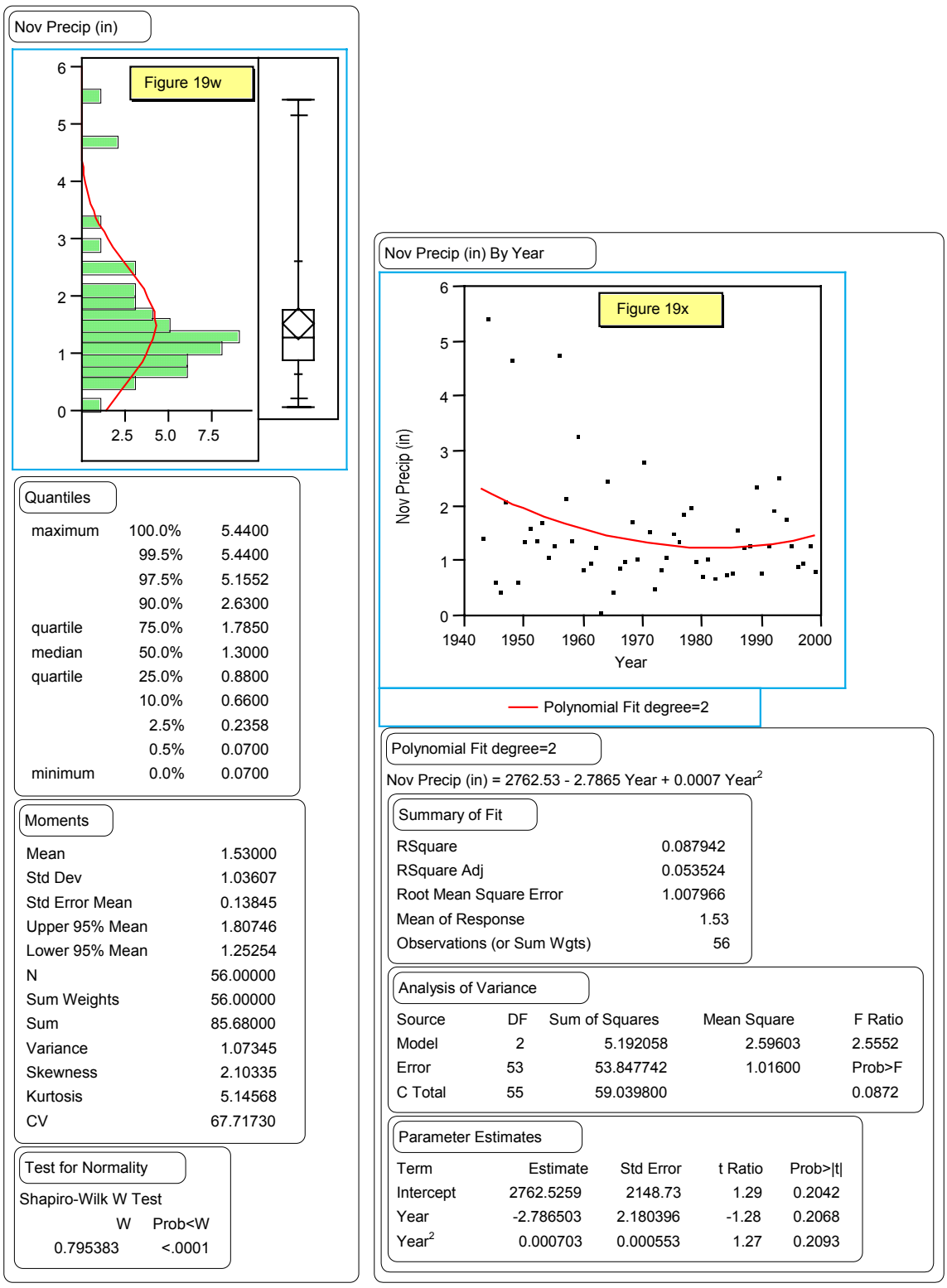


Figure 19. Monthly total precipitation (in) histogram for November (Figure 19w) and distribution through 1943-1999 (Figure 19x) for Deadwood, SD. On Figure 19w the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

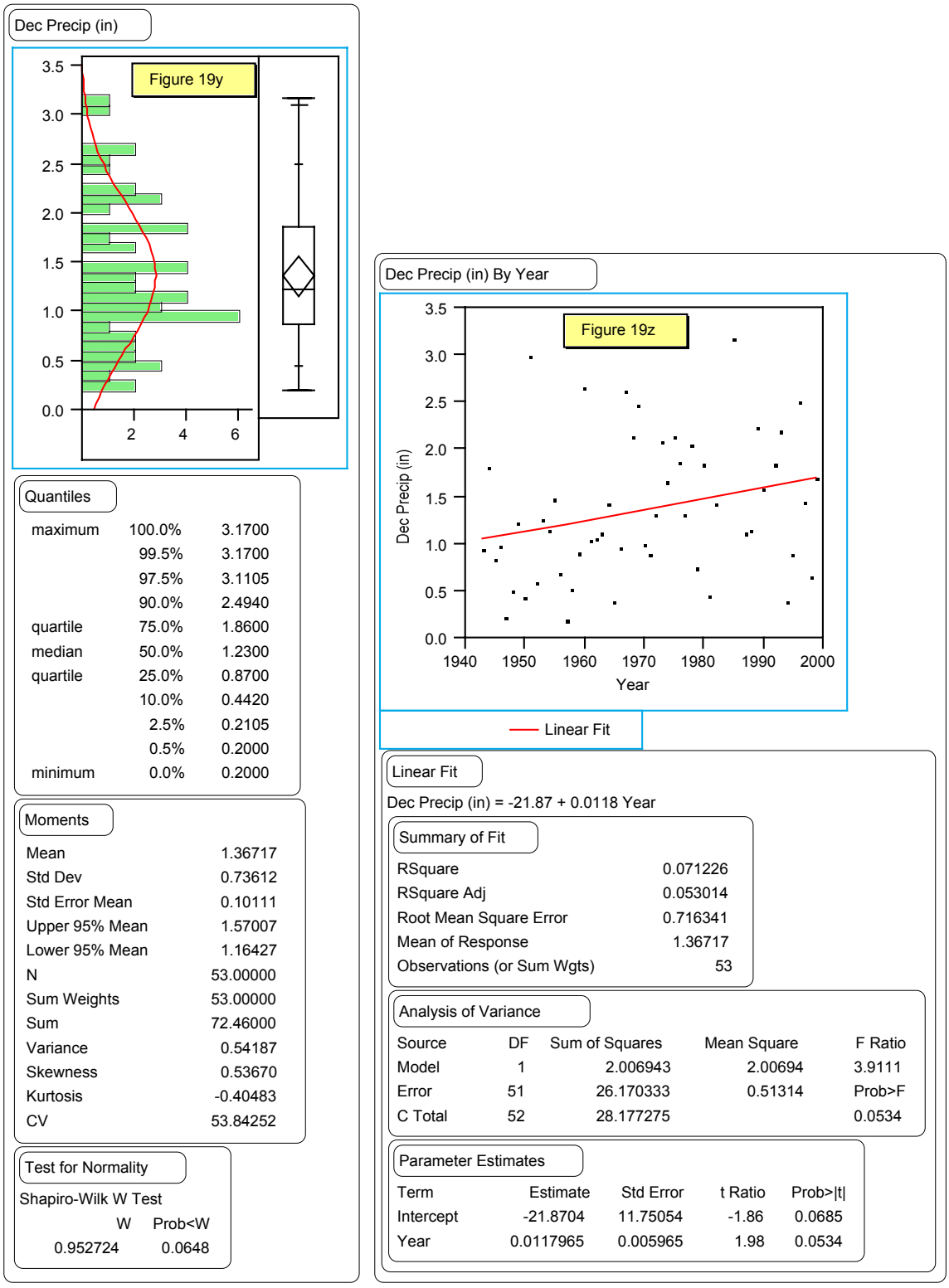
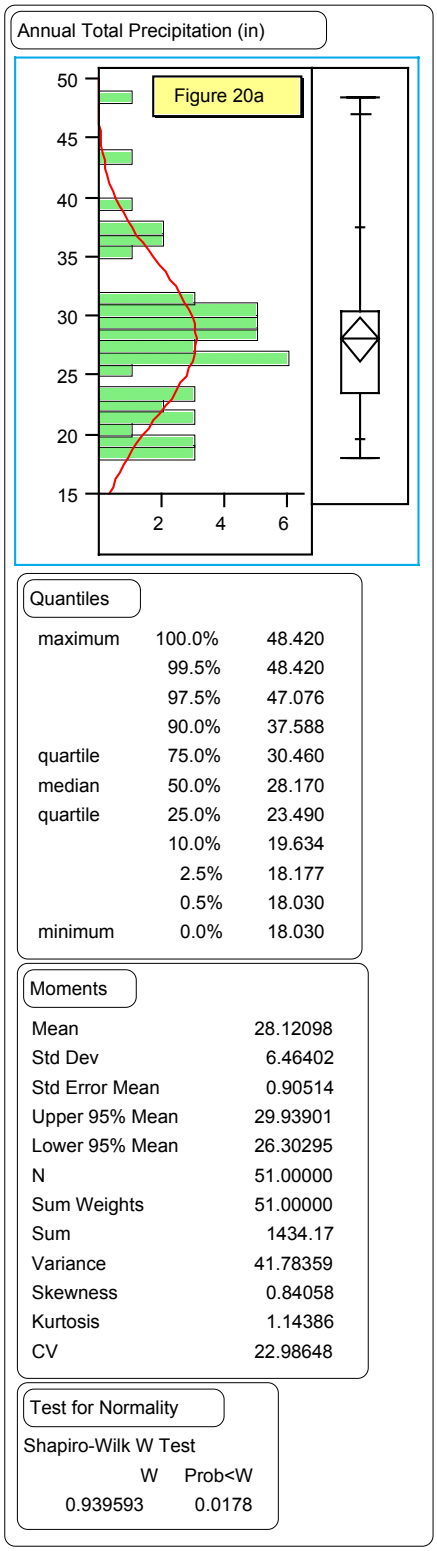


Figure 19. Monthly total precipitation (in) histogram for December (Figure 19y) and distribution through 1943-1999 (Figure 19z) for Deadwood, SD. On Figure 19y the Y axis = total precipitation (in) and the X axis = the number of years (frequency).



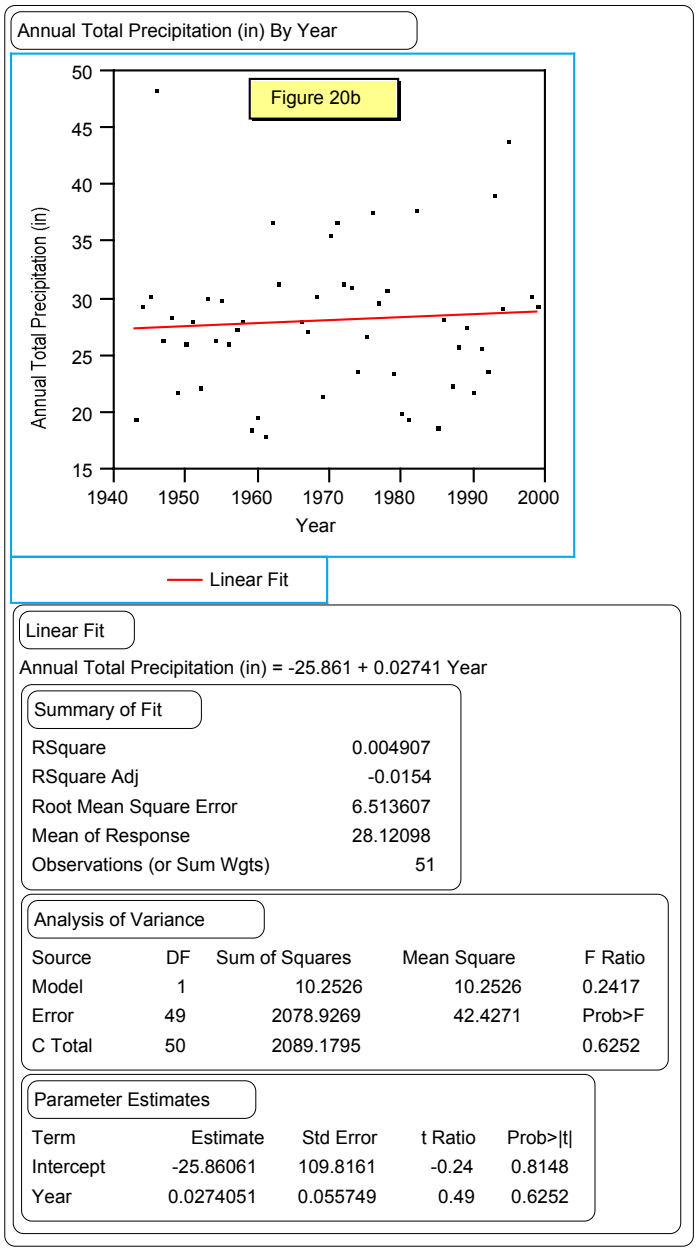
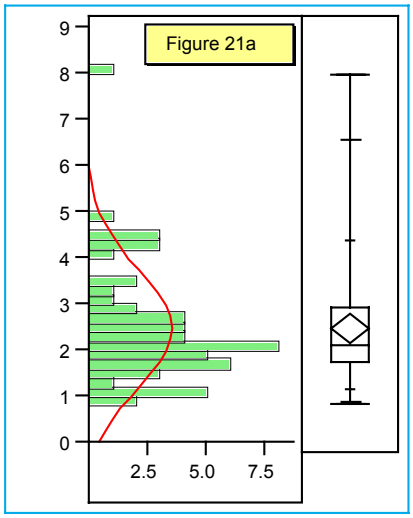


Figure 20. Total annual precipitation (in) histogram (Figure 20a) and distribution through 1943-1999 (Figure 20b) for Deadwood, SD. On Figure 20a the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

1-Day Max Precip (in)



Quantiles

maximum	100.0%	8.0000
	99.5%	8.0000
	97.5%	6.5600
	90.0%	4.3800
quartile	75.0%	2.9100
median	50.0%	2.1100
quartile	25.0%	1.7300
	10.0%	1.1400
	2.5%	0.8715
	0.5%	0.8400
minimum	0.0%	0.8400

Moments

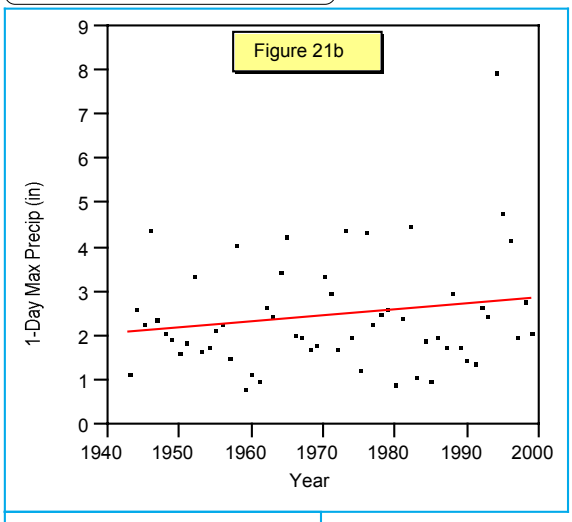
Mean	2.47667
Std Dev	1.26590
Std Error Mean	0.16767
Upper 95% Mean	2.81255
Lower 95% Mean	2.14078
N	57.00000
Sum Weights	57.00000
Sum	141.17000
Variance	1.60250
Skewness	1.81367
Kurtosis	5.25940
CV	51.11297

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.859831	<.0001

1-Day Max Precip (in) By Year



Linear Fit

1-Day Max Precip (in) = -24.514 + 0.01369 Year

Summary of Fit

RSquare	0.032239
RSquare Adj	0.014643
Root Mean Square Error	1.256595
Mean of Response	2.476667
Observations (or Sum Wgts)	57

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	2.893117	2.89312	1.8322
Error	55	86.846749	1.57903	Prob>F
C Total	56	89.739867		0.1814

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-24.51408	19.94079	-1.23	0.2242
Year	0.0136939	0.010117	1.35	0.1814

Figure 21. Single day maximum (max) total precipitation/yr (in/yr) histogram (Figure 21a) and distribution through 1943-1999 (Figure 21b) for Deadwood, SD. On Figure 21a the Y axis = total single day precipitation max/yr (in) and the X axis = the number of years (frequency).

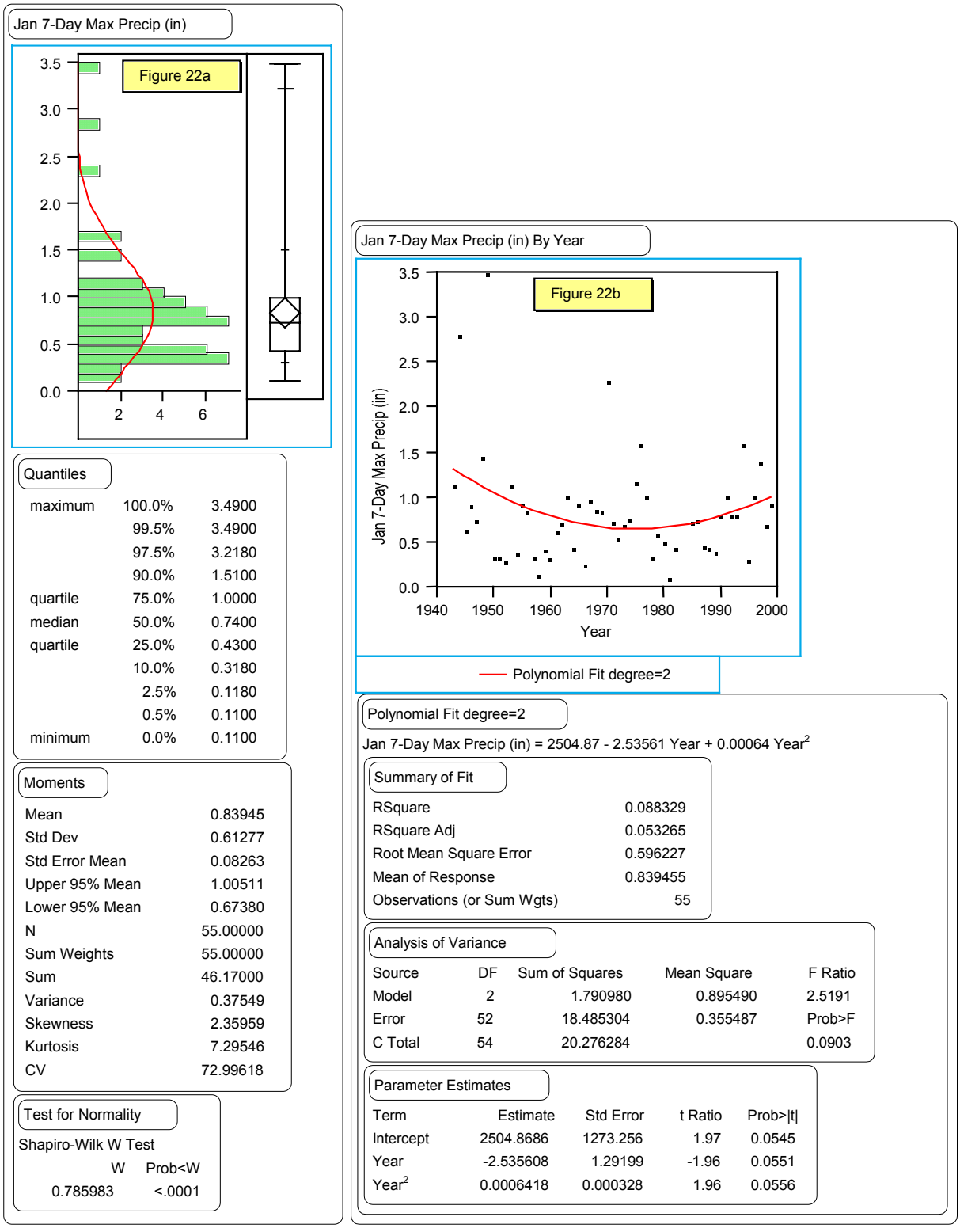
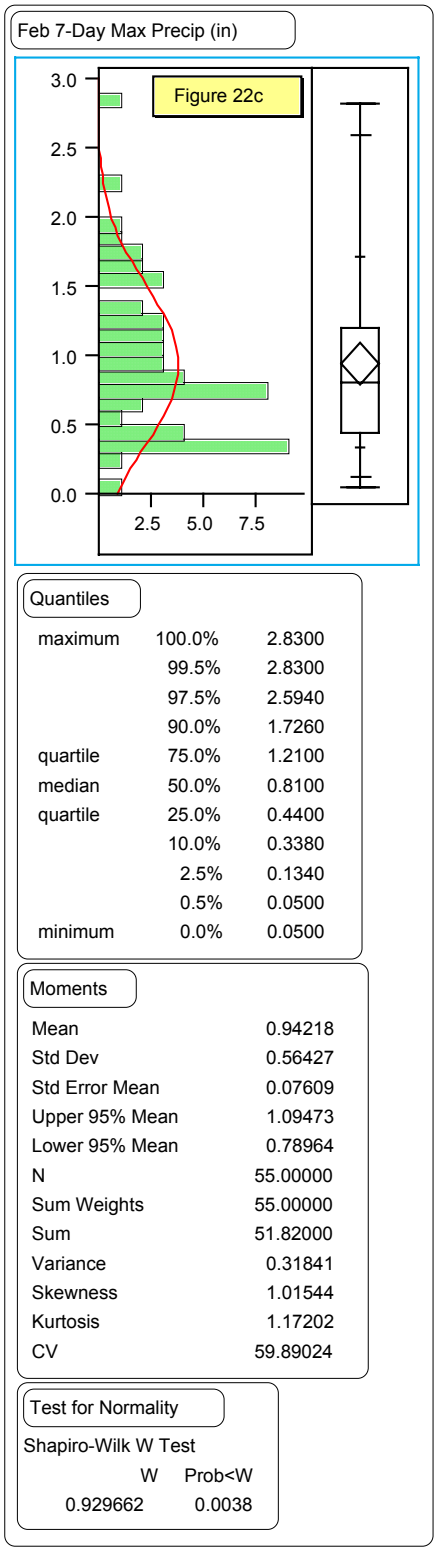


Figure 22. Maximum 7-day precipitation total (in.) histogram for January (Figure 22a) and distribution through 1943-1999 (Figure 22b) for Deadwood, SD. On Figure 22a the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



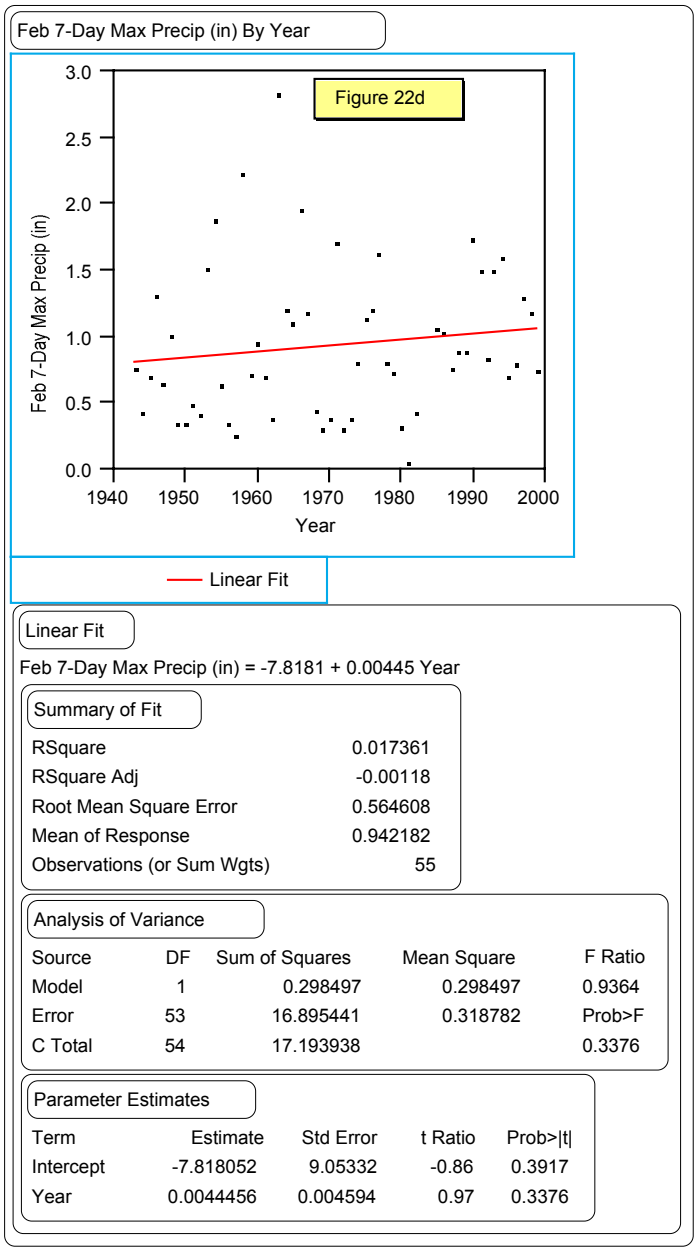
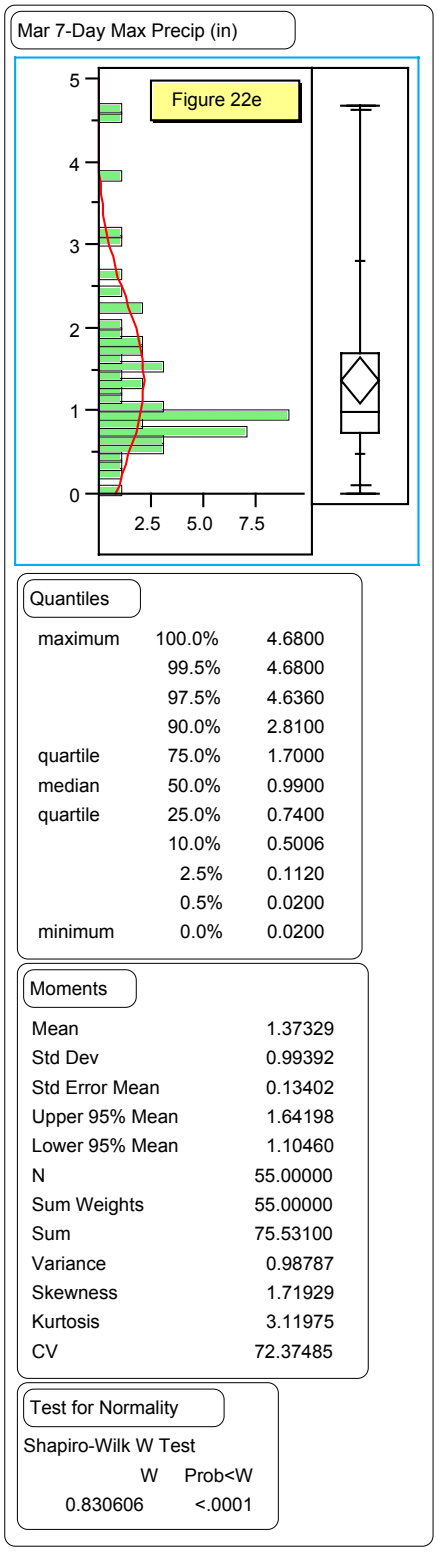


Figure 22. Maximum 7-day precipitation total (in.) histogram for February (Figure 22c) and distribution through 1943-1999 (Figure 22d) for Deadwood, SD. On Figure 22c the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



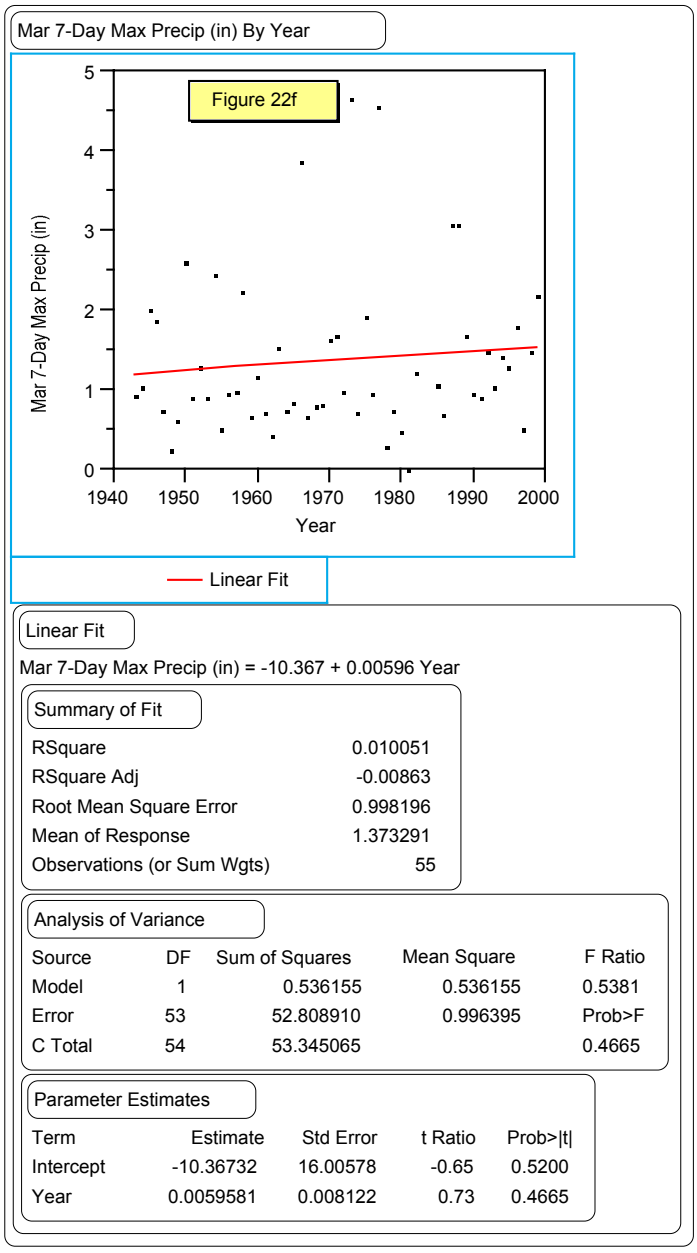


Figure 22. Maximum 7-day precipitation total (in.) histogram for March (Figure 22e) and distribution through 1943-1999 (Figure 22f) for Deadwood, SD. On Figure 22e the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

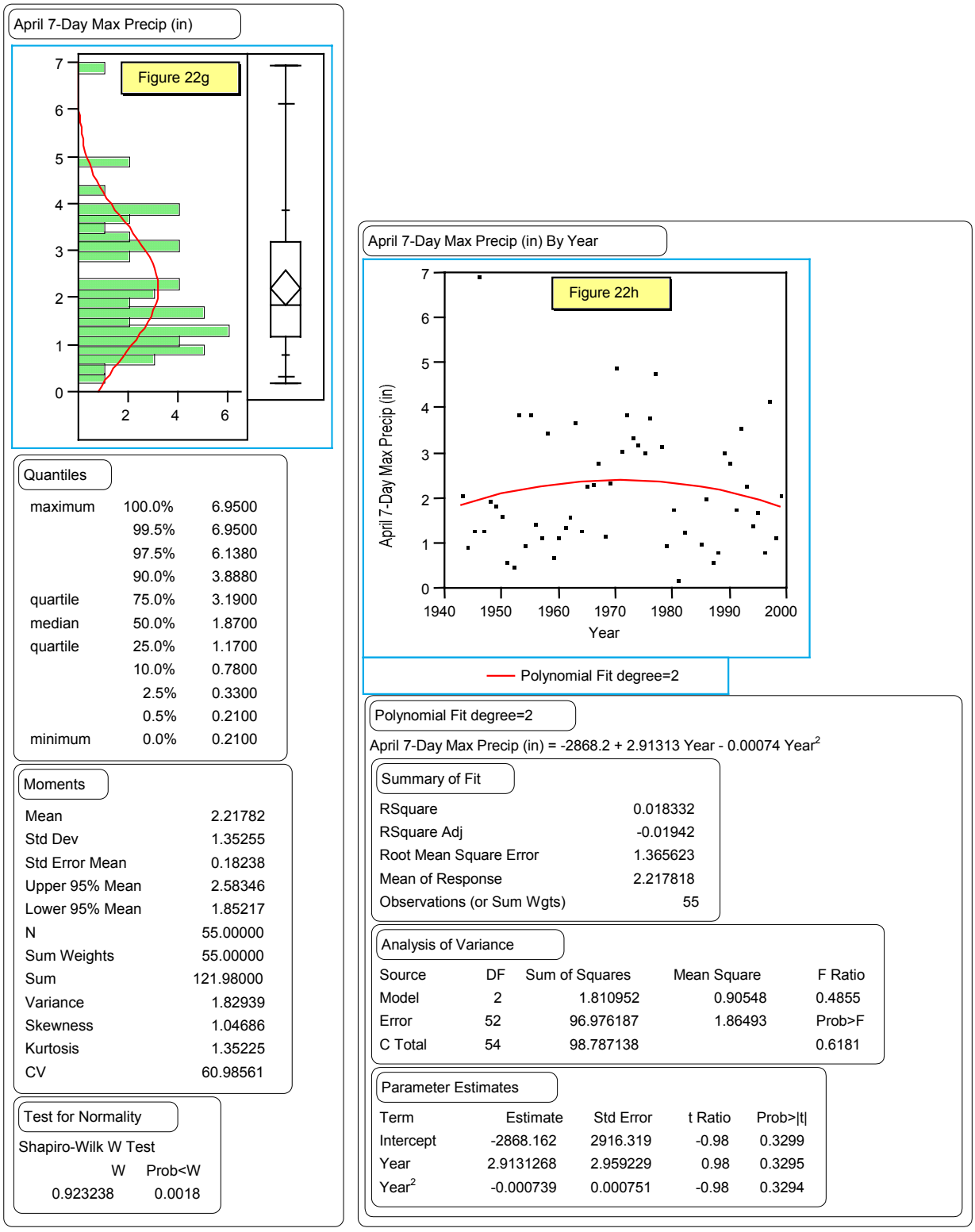
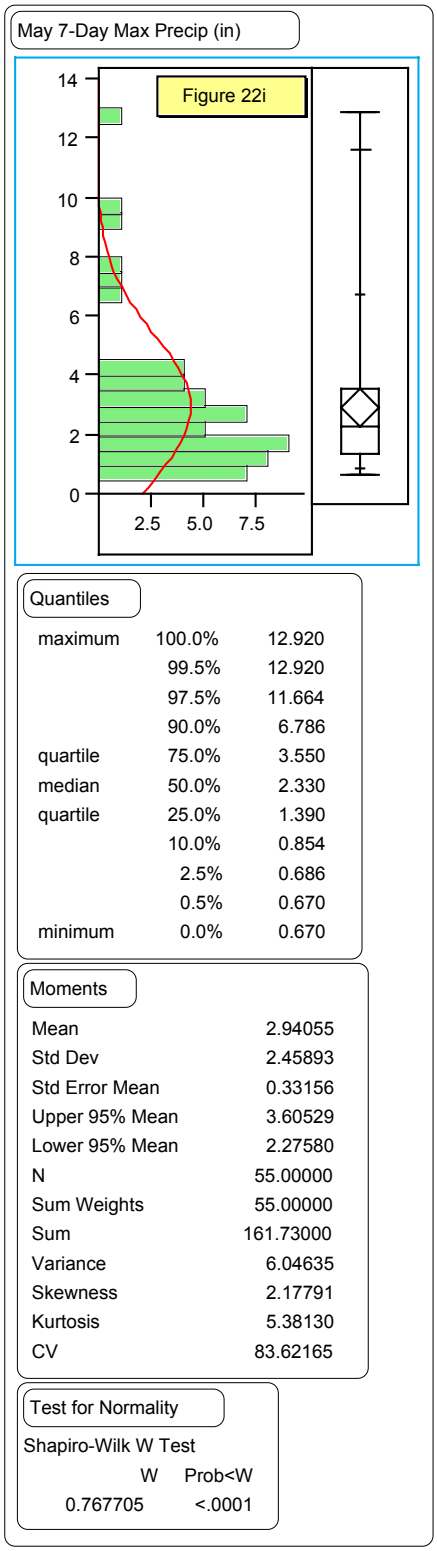


Figure 22. Maximum 7-day precipitation total (in) histogram for April (Figure 22g) and distribution through 1943-1999 (Figure 22h) for Deadwood, SD. On Figure 22g the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



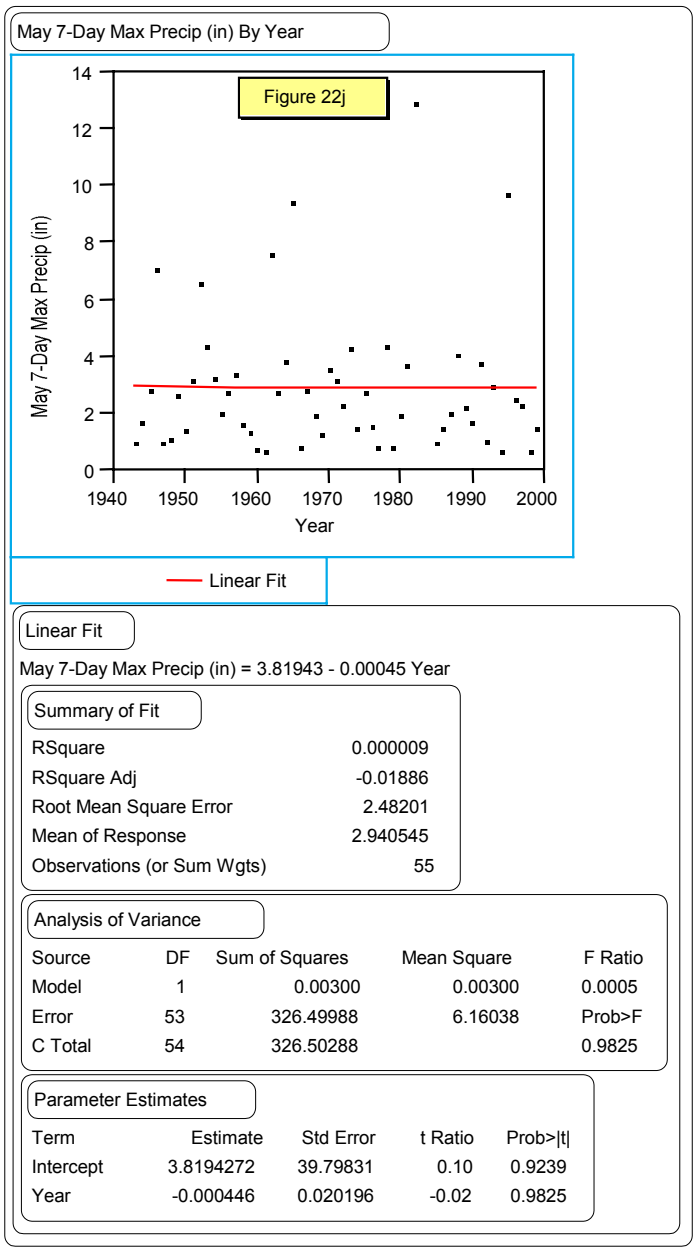


Figure 22. Maximum 7-day precipitation total (in.) histogram for May (Figure 22i) and distribution through 1943-1999 (Figure 22j) for Deadwood, SD. On Figure 22i the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

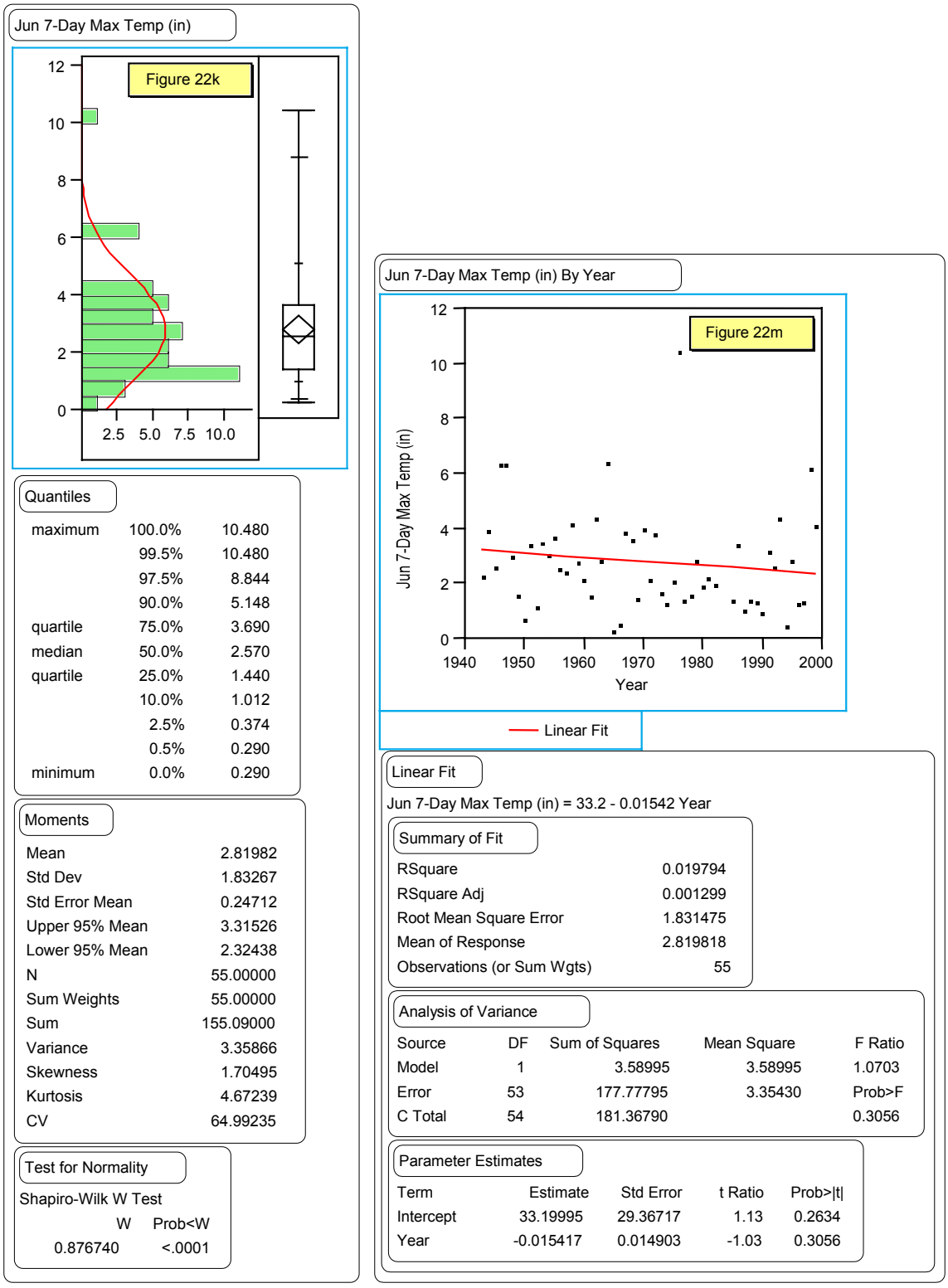
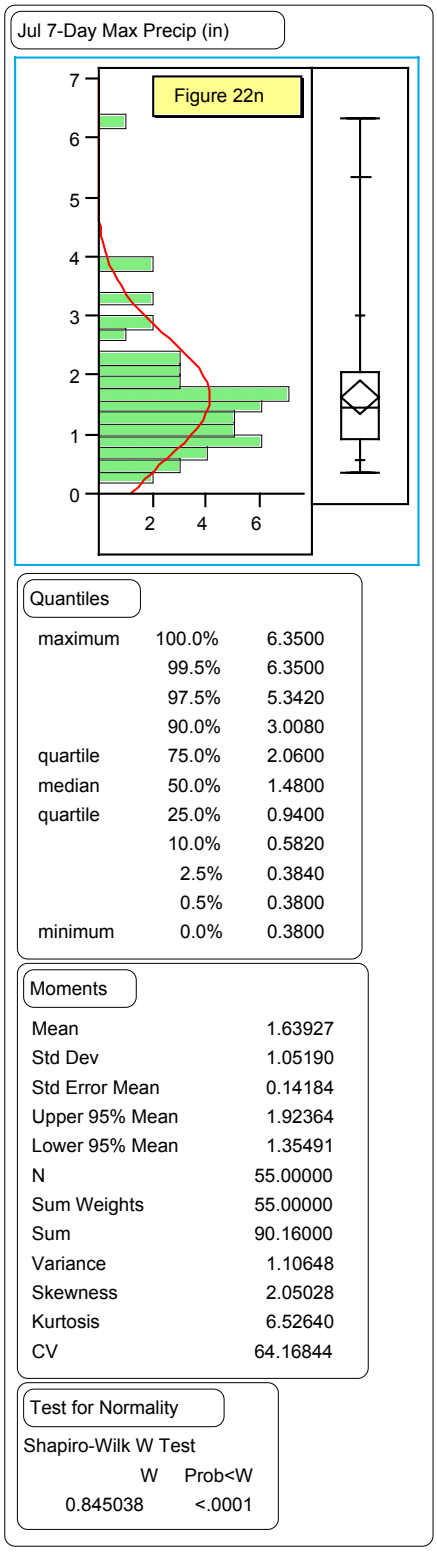


Figure 22. Maximum 7-day precipitation total (in.) histogram for June (Figure 22k) and distribution through 1943-1999 (Figure 22m) for Deadwood, SD. On Figure 22k the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



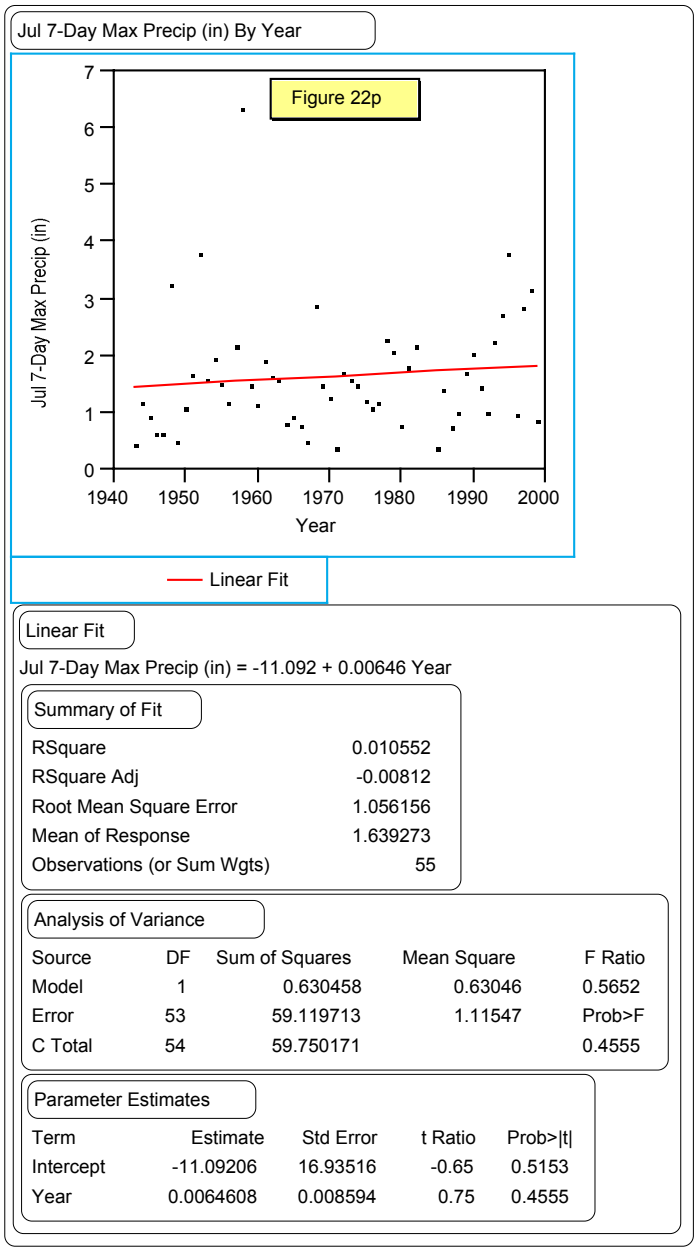
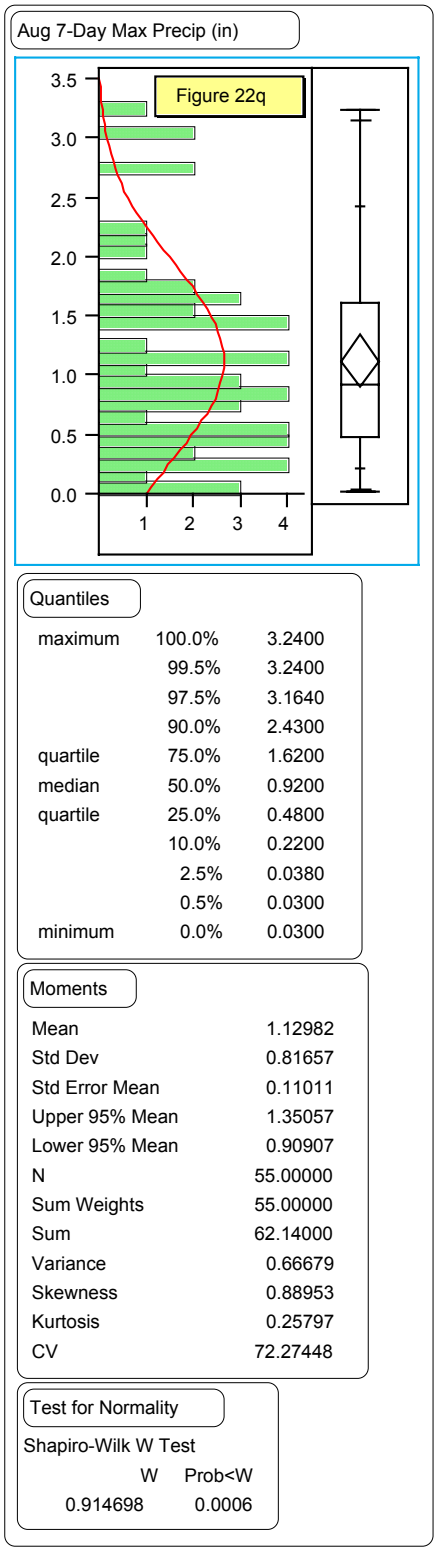


Figure 22. Maximum 7-day precipitation total (in.) histogram for July (Figure 22n) and distribution through 1943-1999 (Figure 22p) for Deadwood, SD. On Figure 22n the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



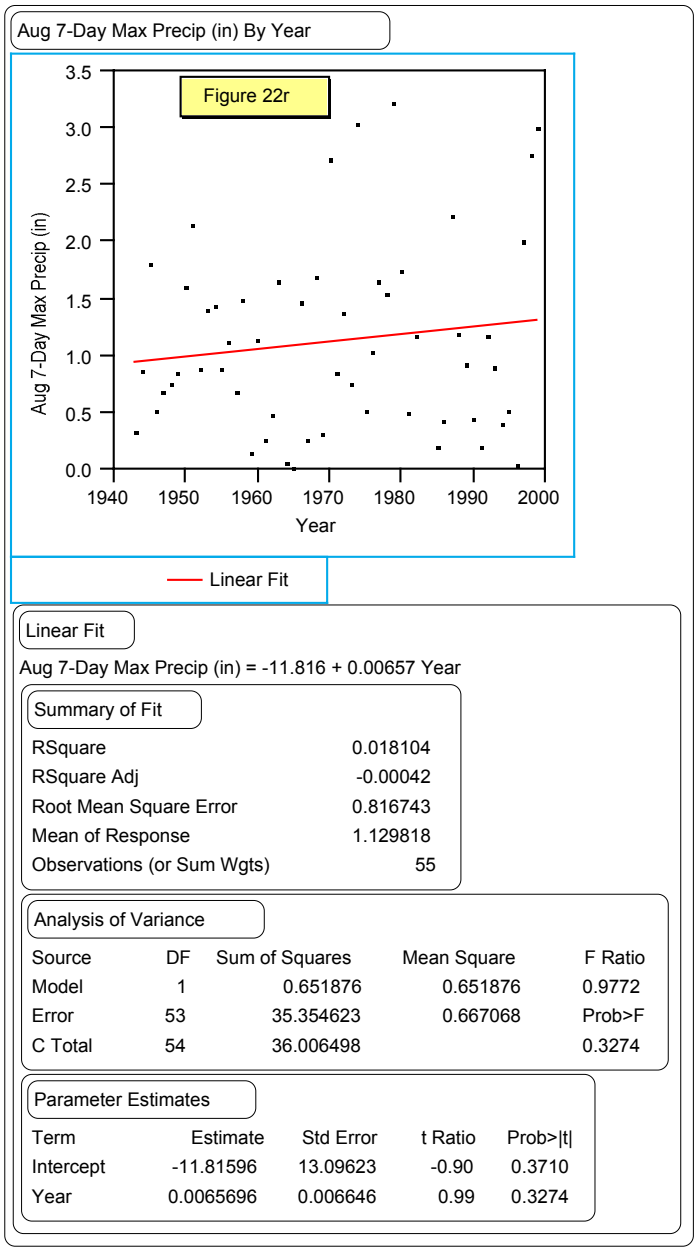


Figure 22. Maximum 7-day precipitation total (in.) histogram for August (Figure 22q) and distribution through 1943-1999 (Figure 22r) for Deadwood, SD. On Figure 22q the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

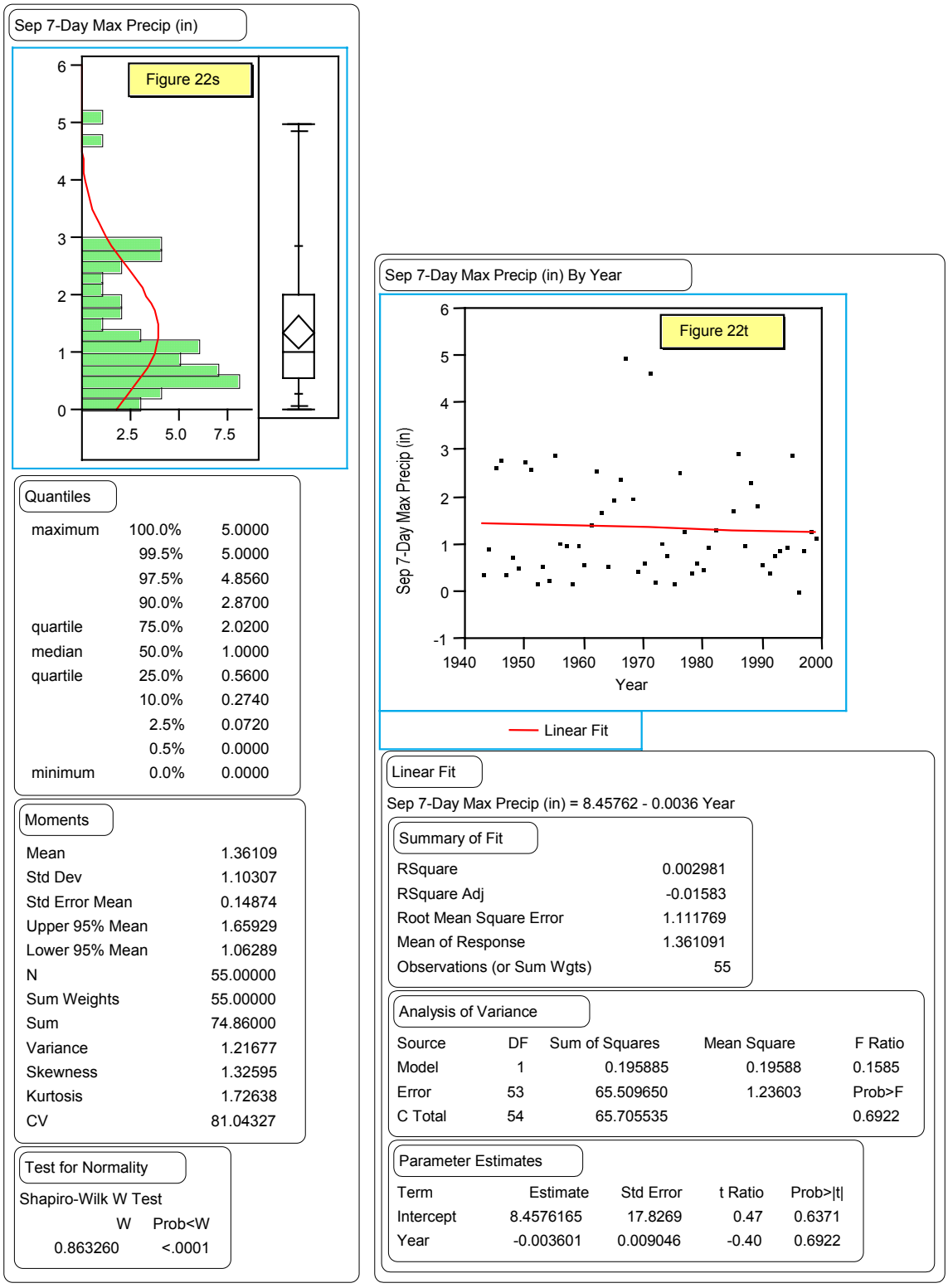
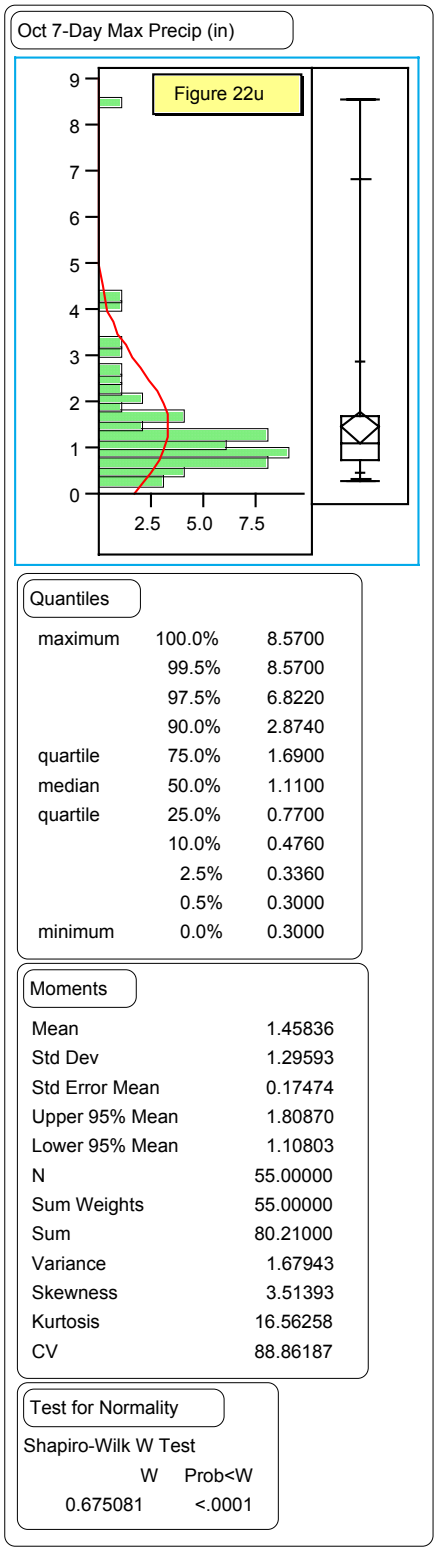


Figure 22. Maximum 7-day precipitation total (in.) histogram for September (Figure 22s) and distribution through 1943-1999 (Figure 22t) for Deadwood, SD. On Figure 22s the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



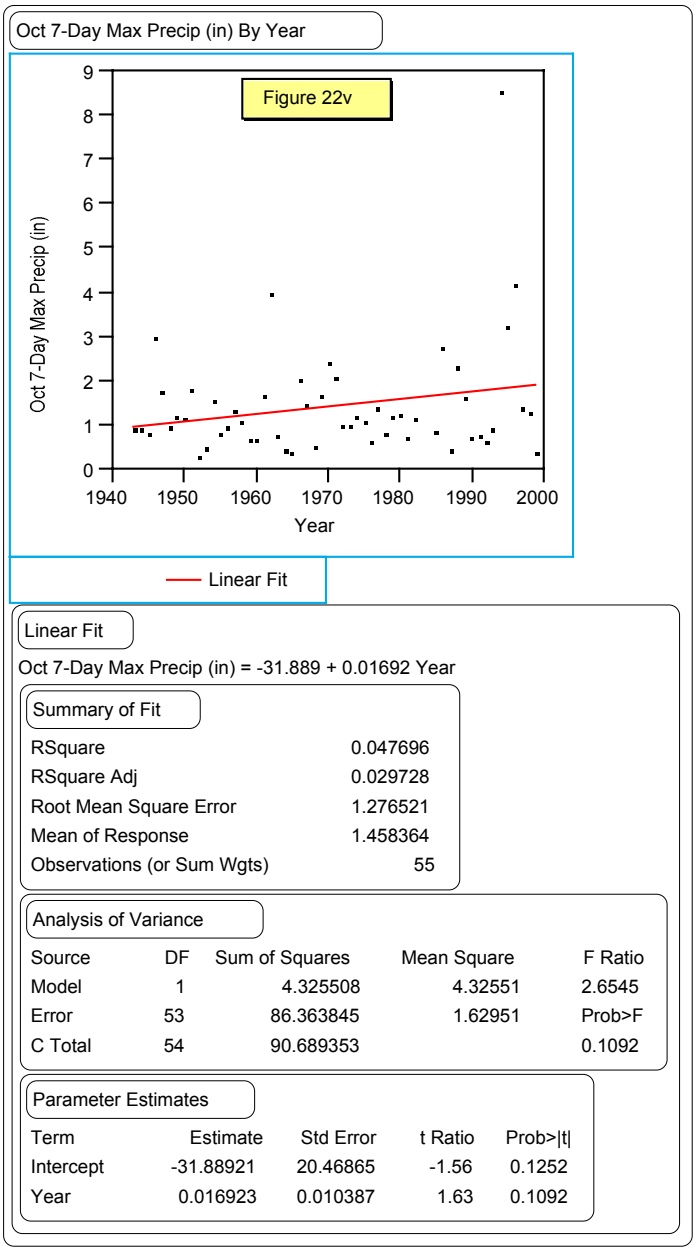
Quantiles		
maximum	100.0%	8.5700
	99.5%	8.5700
	97.5%	6.8220
	90.0%	2.8740
quartile	75.0%	1.6900
median	50.0%	1.1100
quartile	25.0%	0.7700
	10.0%	0.4760
	2.5%	0.3360
	0.5%	0.3000
minimum	0.0%	0.3000

Moments	
Mean	1.45836
Std Dev	1.29593
Std Error Mean	0.17474
Upper 95% Mean	1.80870
Lower 95% Mean	1.10803
N	55.00000
Sum Weights	55.00000
Sum	80.21000
Variance	1.67943
Skewness	3.51393
Kurtosis	16.56258
CV	88.86187

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.675081	<.0001



Linear Fit

Oct 7-Day Max Precip (in) = -31.889 + 0.01692 Year

Summary of Fit	
RSquare	0.047696
RSquare Adj	0.029728
Root Mean Square Error	1.276521
Mean of Response	1.458364
Observations (or Sum Wgts)	55

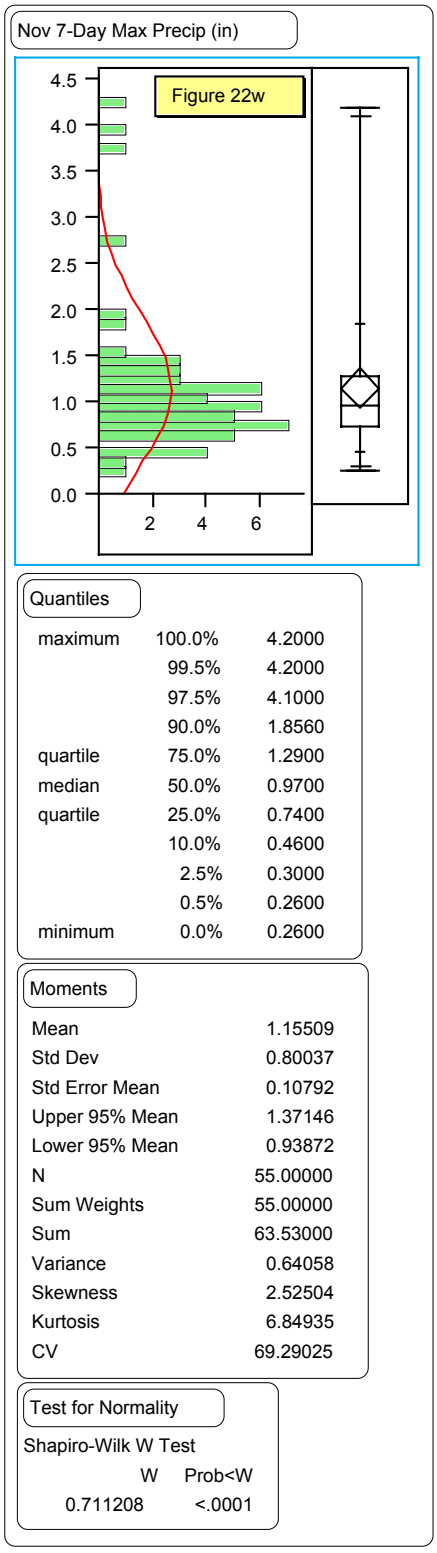
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	4.325508	4.32551	2.6545
Error	53	86.363845	1.62951	Prob>F
C Total	54	90.689353		0.1092

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-31.88921	20.46865	-1.56	0.1252
Year	0.016923	0.010387	1.63	0.1092

Figure 22. Maximum 7-day precipitation total (in.) histogram for October (Figure 22u) and distribution through 1943-1999 (Figure 22v) for Deadwood, SD. On Figure 22u the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



Quantiles

maximum	100.0%	4.2000
	99.5%	4.2000
	97.5%	4.1000
	90.0%	1.8560
quartile	75.0%	1.2900
median	50.0%	0.9700
quartile	25.0%	0.7400
	10.0%	0.4600
	2.5%	0.3000
	0.5%	0.2600
minimum	0.0%	0.2600

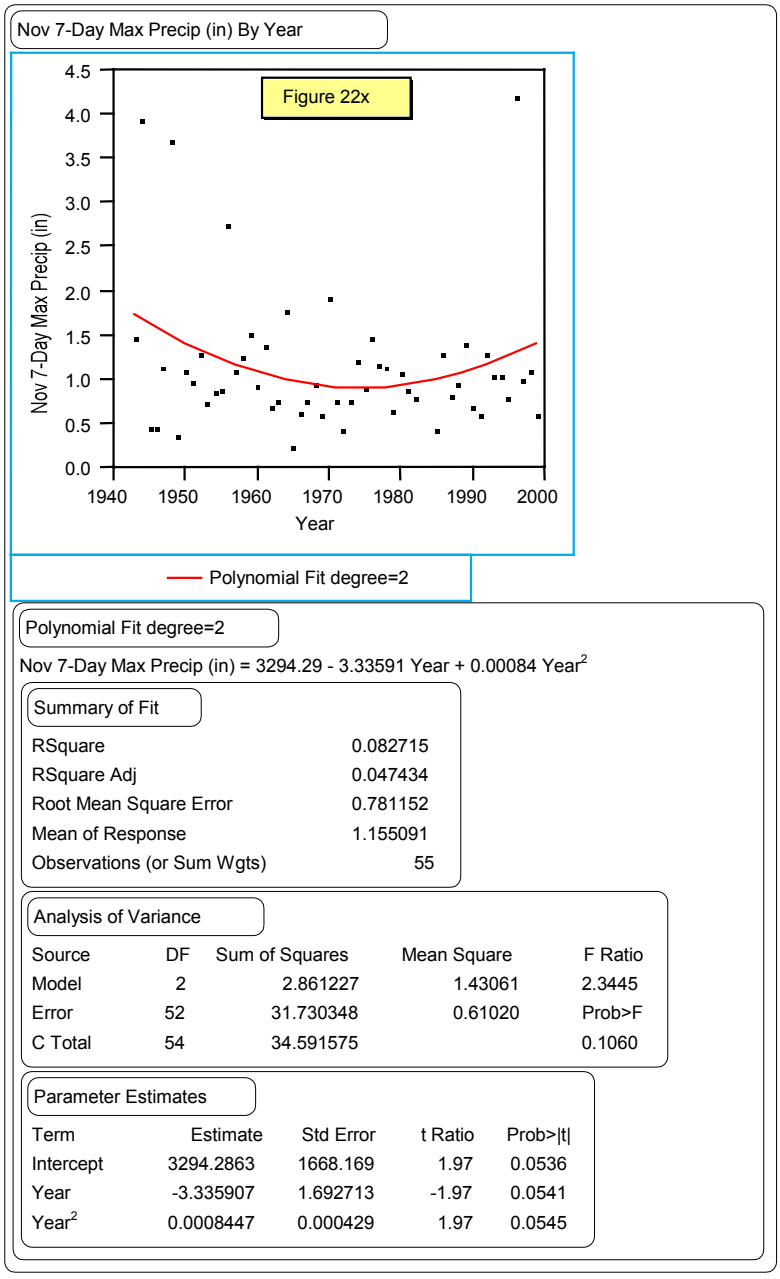
Moments

Mean	1.15509
Std Dev	0.80037
Std Error Mean	0.10792
Upper 95% Mean	1.37146
Lower 95% Mean	0.93872
N	55.00000
Sum Weights	55.00000
Sum	63.53000
Variance	0.64058
Skewness	2.52504
Kurtosis	6.84935
CV	69.29025

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.711208	<.0001



Polynomial Fit degree=2

Nov 7-Day Max Precip (in) = 3294.29 - 3.33591 Year + 0.00084 Year^2

Summary of Fit

RSquare	0.082715
RSquare Adj	0.047434
Root Mean Square Error	0.781152
Mean of Response	1.155091
Observations (or Sum Wgts)	55

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	2.861227	1.43061	2.3445
Error	52	31.730348	0.61020	Prob>F
C Total	54	34.591575		0.1060

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	3294.2863	1668.169	1.97	0.0536
Year	-3.335907	1.692713	-1.97	0.0541
Year^2	0.0008447	0.000429	1.97	0.0545

Figure 22. Maximum 7-day precipitation total (in.) histogram for November (Figure 22w) and distribution through 1943-1999 (Figure 22x) for Deadwood, SD. On Figure 22w the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

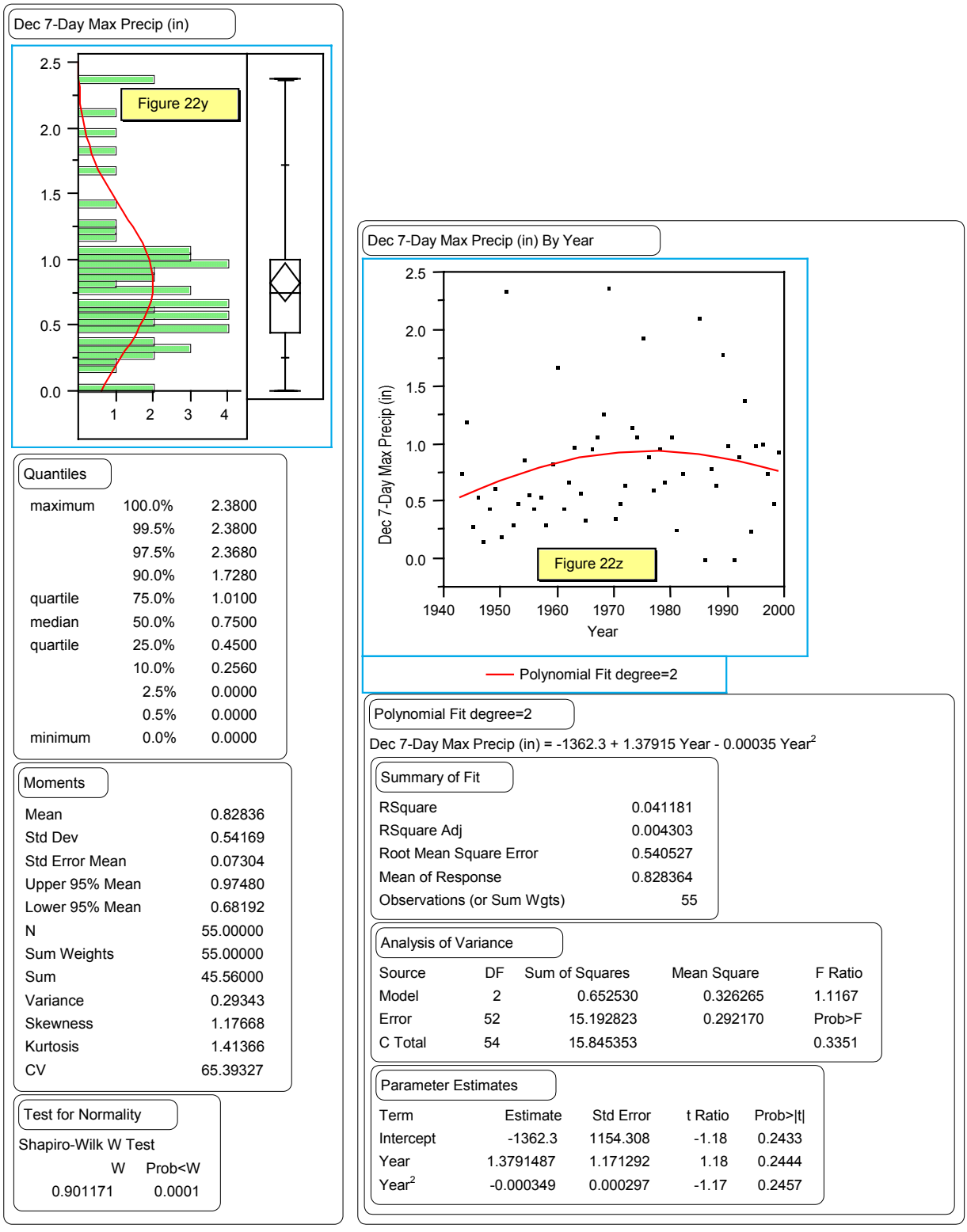
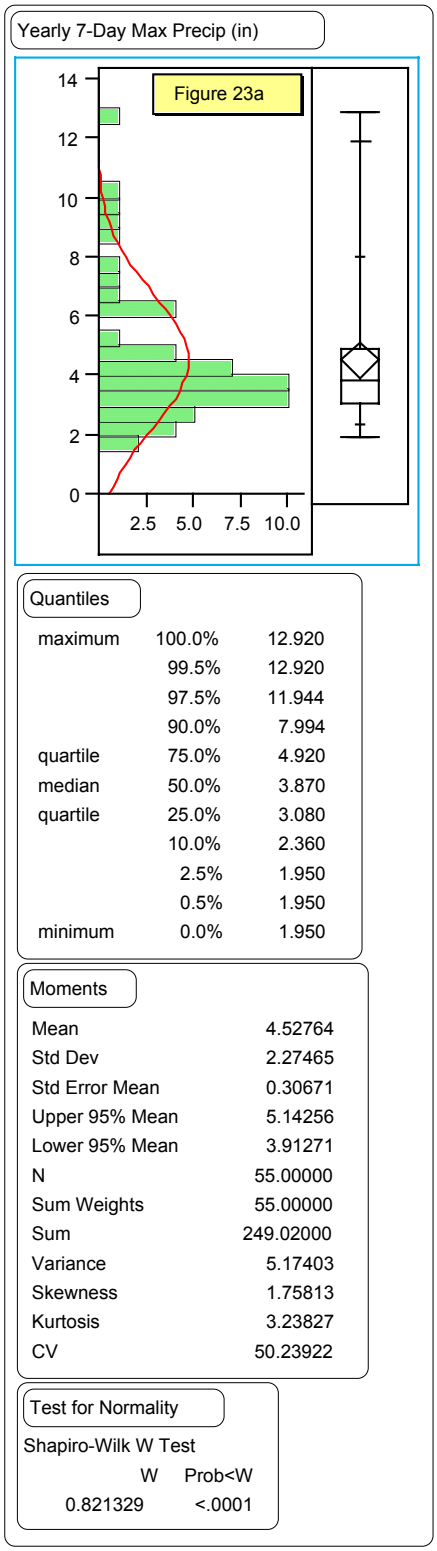


Figure 22. Maximum 7-day precipitation total (in.) histogram for December (Figure 22y) and distribution through 1943-1999 (Figure 22z) for Deadwood, SD. On Figure 22y the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



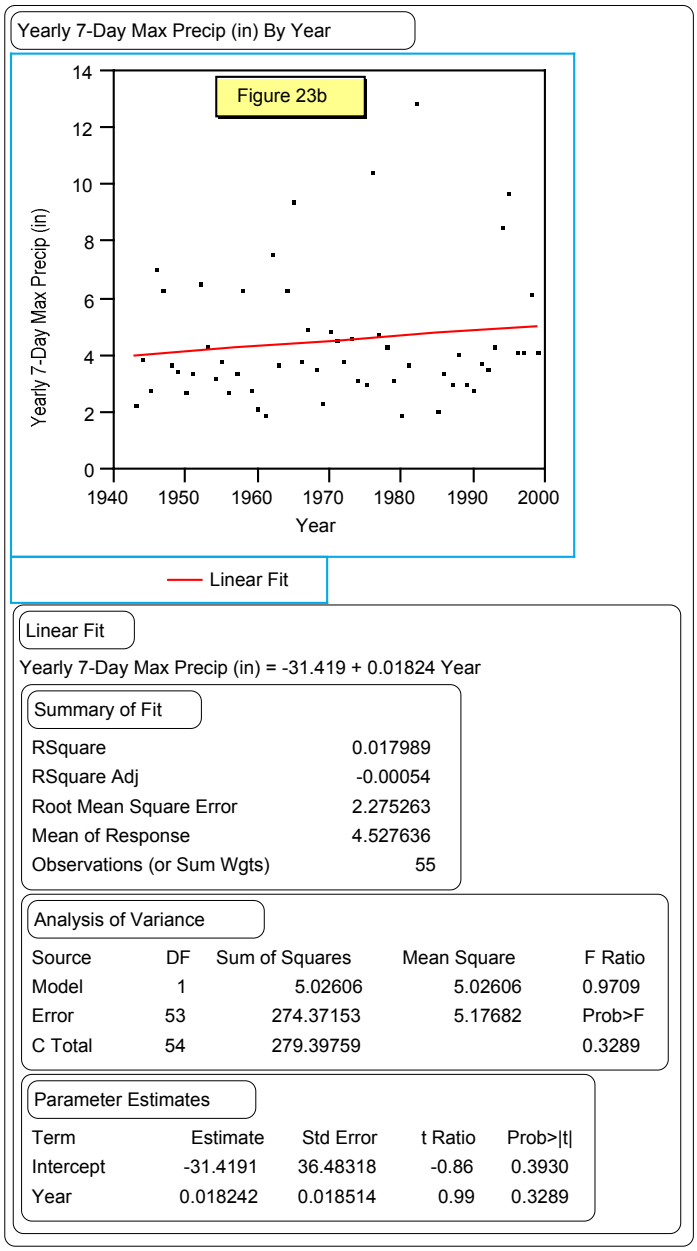


Figure 23. Yearly maximum 7-day precipitation event histogram (Figure 23a) and distribution through 1943-1999 (Figure 23b) for Deadwood, South Dakota. On Figure 23a the Y axis = maximum 7-day precipitation for the year and the X axis = the number of years (frequency).

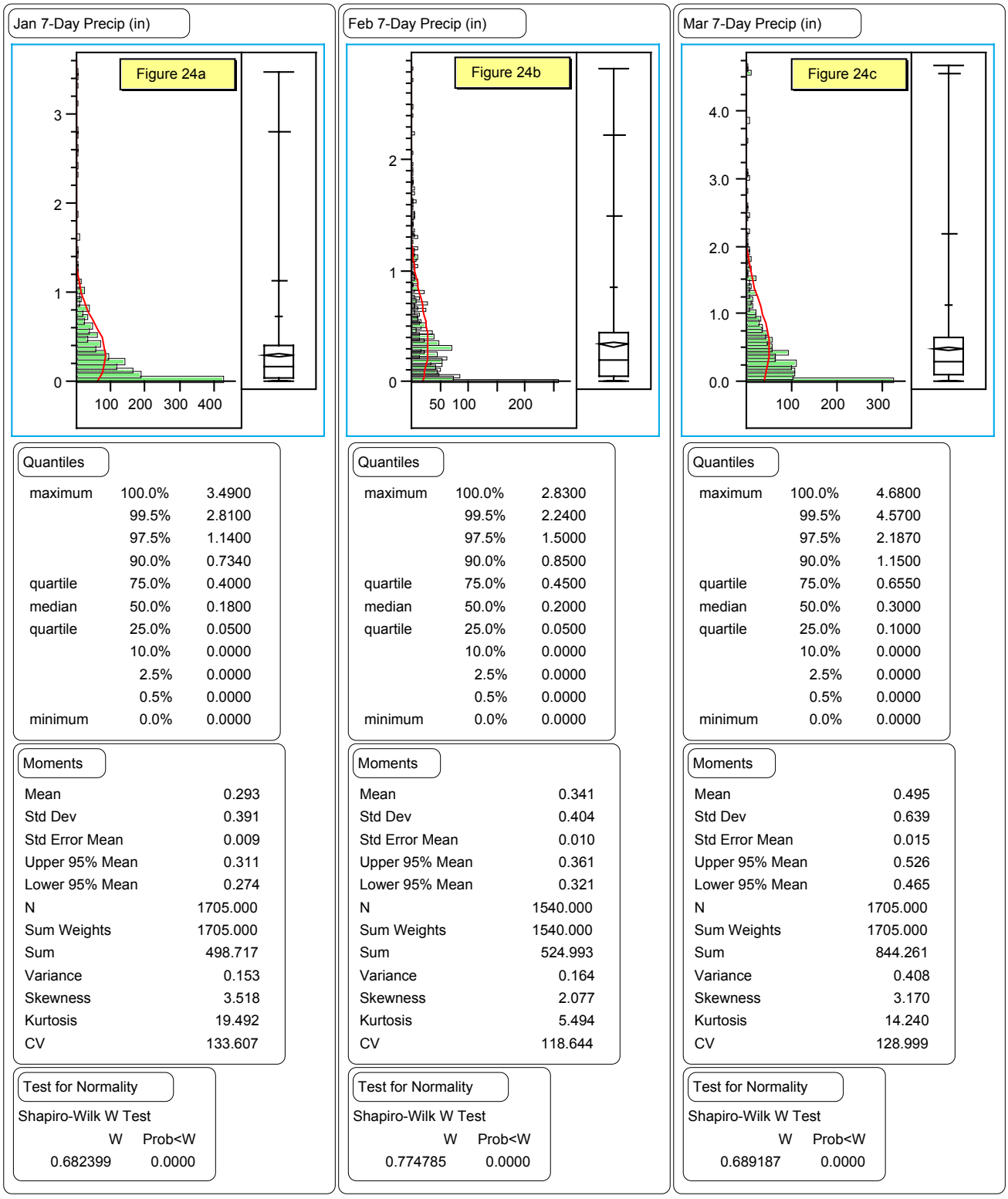


Figure 24. Distribution (histogram) of January (Figure 24a), February (Figure 24b), and March (Figure 24c) 7-day precipitation totals (in.) for Deadwood, SD (1943-1999). The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

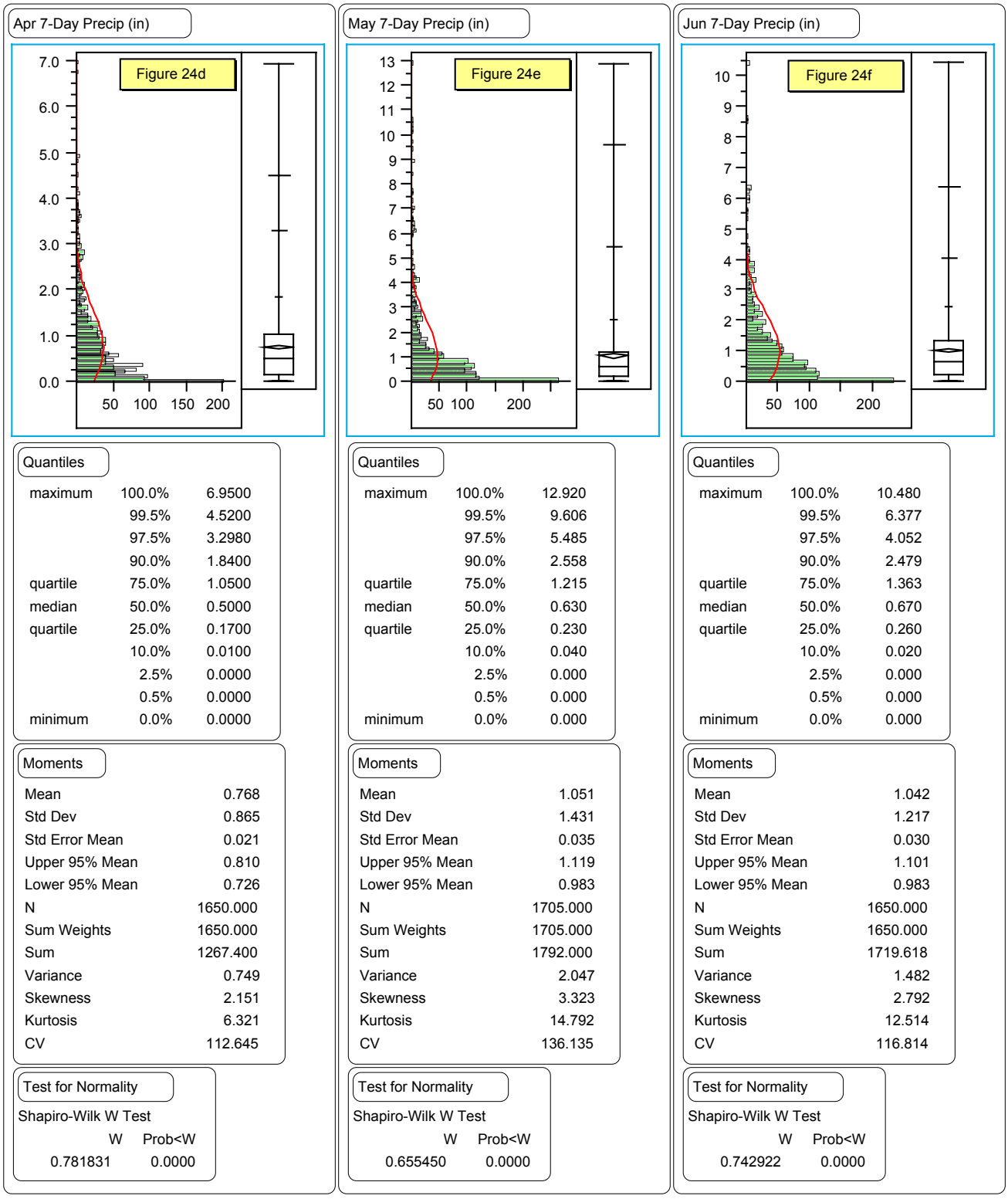


Figure 24. Distribution (histogram) of April (Figure 24d), May (Figure 24e), and June (Figure 24f) 7-day precipitation totals (in.) for Deadwood, SD (1943-1999). The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

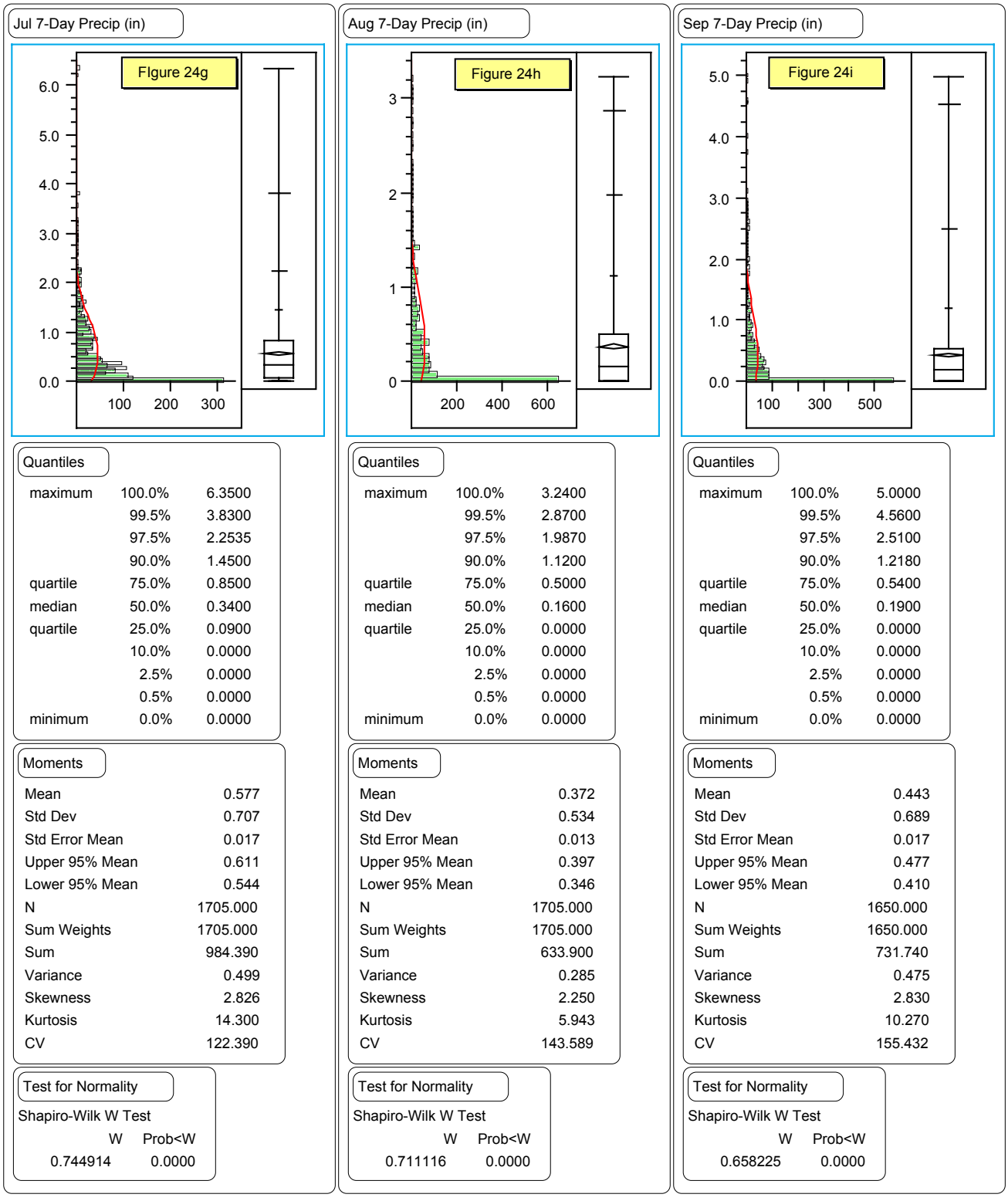


Figure 24. Distribution (histogram) of July (Figure 24g), August (Figure 24h), and September (Figure 24i) 7-day precipitation totals (in.) for Deadwood, SD (1943-1999). The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

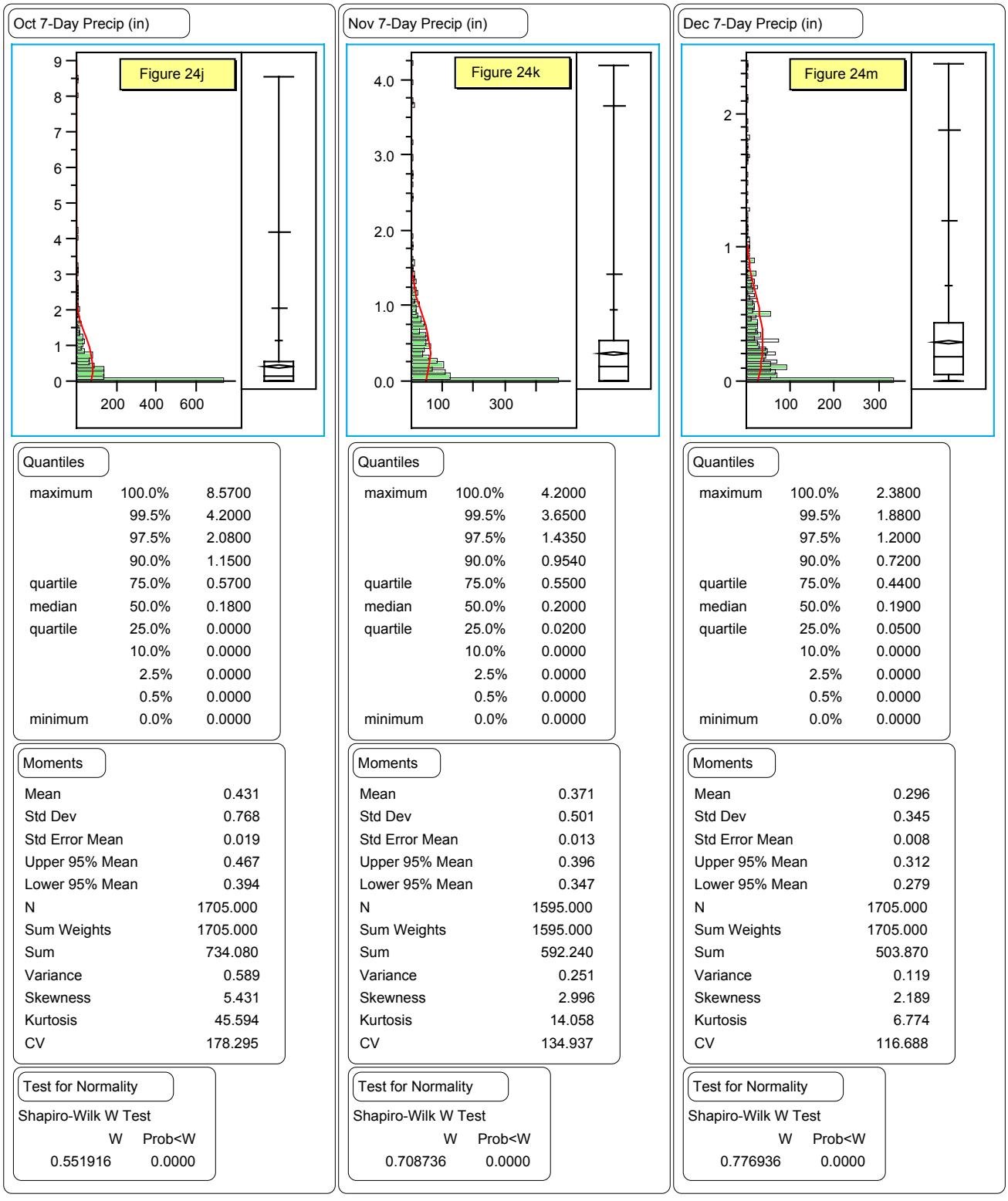


Figure 24. Distribution (histogram) of October (Figure 24j), November (Figure 24k), and December (Figure 24m) 7-day precipitation totals (in.) for Deadwood, SD (1943-1999). The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

Table 3. Average number of days at selected precipitation categories for the time listed at Deadwood, SD (1943-1999).

Precipitation Category	----------Months of the Year----------												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
# Days 1-2 in precip.	0.054	0.107	0.214	0.732	0.714	0.691	0.339	0.259	0.309	0.309	0.107	0.075	3.912
# Days 2-3 in precip.	0.018	0.000	0.018	0.089	0.268	0.145	0.071	0.056	0.055	0.055	0.054	0.000	0.828
# Days 3-4 in precip.	0.000	0.000	0.018	0.000	0.107	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.161
# Days 4-5 in precip.	0.000	0.000	0.018	0.000	0.054	0.036	0.018	0.000	0.000	0.018	0.000	0.000	0.144
# Days >5 in precip.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.018
# Days >1 in precip.	0.071	0.107	0.268	0.821	1.143	0.909	0.429	0.315	0.364	0.400	0.161	0.075	5.063
# Days >2 in precip.	0.018	0.000	0.054	0.089	0.429	0.218	0.089	0.056	0.055	0.091	0.054	0.000	1.151
# Days >3 in precip.	0.000	0.000	0.036	0.000	0.161	0.073	0.018	0.000	0.000	0.036	0.000	0.000	0.323
# Days >4 in precip.	0.000	0.000	0.018	0.000	0.054	0.036	0.018	0.000	0.000	0.036	0.000	0.000	0.162
# Days >5 in precip.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.018

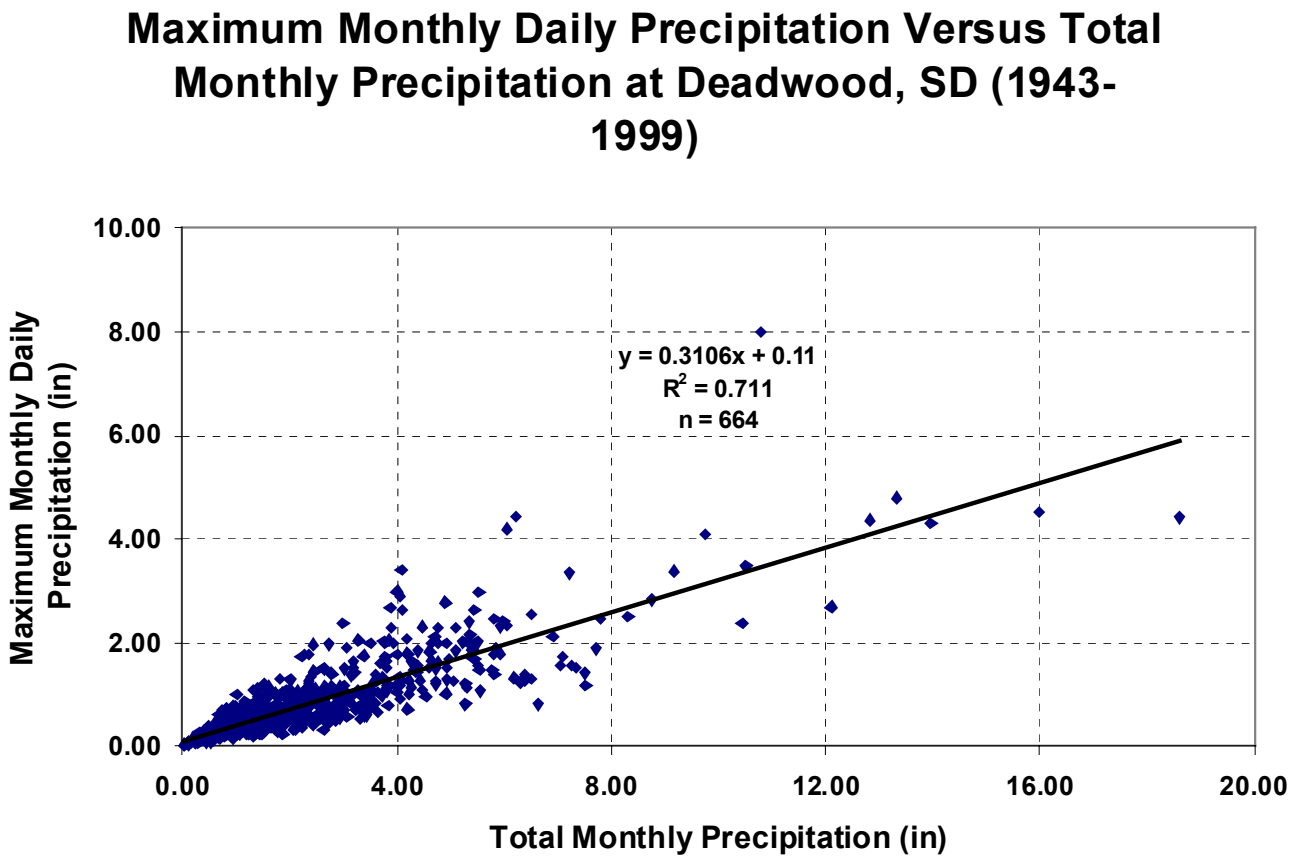


Figure 25. One-day maximum precipitation per month and total monthly precipitation for Deadwood, SD (1943-1999).

Additional Climatic Data for Deadwood, SD

Additional important climatic data for Deadwood, SD are presented in Tables 4, 5, and 6. The snowfall, on average, exceeds 110 in/yr and the cool climate is reflected in the low amount of energy (heat) available for plant growth, <3550 growing degree units (40 ^{O}F basis). Freeze dates and growing season length are presented in Tables 8 and 9, respectively. The area has a relatively short growing season of 128 to 142 days (28 ^{O}F basis).

Table 4. Growing degree units (40 ^{O}F basis) and average snowfall in Deadwood, SD (1961-1990).

Month	Growing Degree Units*	Average snowfall (in)
January	4	15.1
February	8	17.6
March	34	20.4
April	131	16.1
May	360	2.6
June	626	0.1
July	858	0
August	792	0
September	463	0.6
October	203	6.2
November	35	12.5
December	8	18.7
Year	3522	110.0

* A heat unit available for plant growth (40 ^{O}F basis).
Source - NWCC, 2001.

Table 5. Freeze dates in spring and fall at Deadwood, SD (1961-1990).

Probability	----------Critical Temperature Level ----------		
	24 ^{O}F or lower	28 ^{O}F or lower	32 ^{O}F or lower
Last freezing temperature in spring			
1 year in 10 later than	May 15	May 27	June 16
2 years in 10 later than	May 9	May 21	June 9
5 years in 10 later than	April 28	May 9	May 29
First freezing temperature in fall			
1 year in 10 earlier than	September 24	September 12	September 6
2 years in 10 earlier than	September 29	September 18	September 9
5 years in 10 earlier than	October 10	September 29	September 16

Source - NWCC, 2001.

Table 6. Growing season length at Deadwood, SD (1961-1990). Source – NWCC, 2001.

Probability	Daily Minimum Temperature during Growing Season		
	> 24 ^{O}F	> 28 ^{O}F	> 32 ^{O}F
9 years in 10	142	120	85
8 years in 10	150	128	93
5 years in 10	164	142	110
2 years in 10	179	156	126
1 year in 10	186	164	135

Lead, SD - Climatic Data

The daily maximum and minimum temperature and precipitation data for Lead, SD (sd483404) from 1909-1999 (Bender, 2000b) are printed in Appendix C (temperature) and Appendix D (precipitation). The weather station is located at an elevation of 5250 ft above sea level.

TEMPERATURE – Monthly Information

Maximum Temperatures – 91 yr average

The maximum temperature averages by month for the 91 years studied at Lead, SD are shown in Figure 26. The month with the highest monthly average maximum temperature, 80 ^{O}F, is July while the month with the lowest monthly average maximum temperature values, 33 ^{O}F, is January.

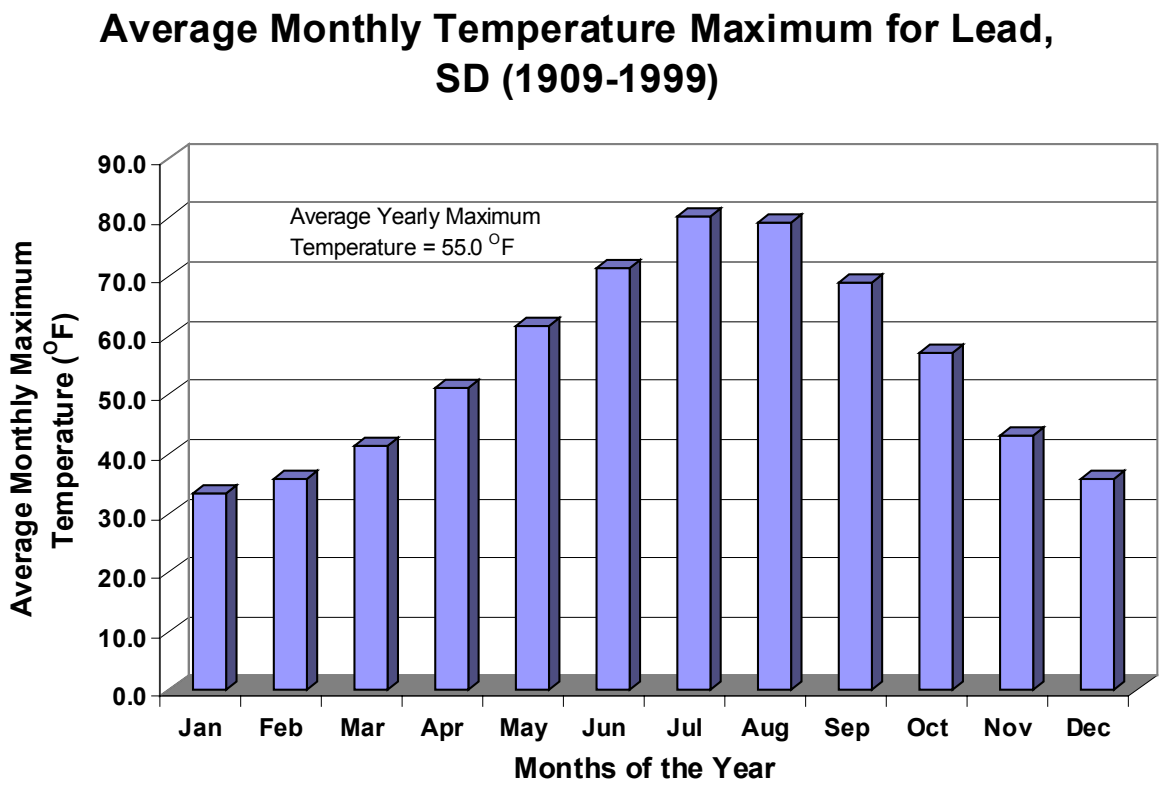


Figure 26. Average monthly temperature maximums (1909-1999) for Lead, South Dakota (daily data from Bender 2000b).

Minimum Temperatures – 91 year average

The minimum temperature averages by month for the 91 years studied at Lead, SD are shown in Figure 27. The months with the highest monthly average minimum temperatures, >50 ^{O}F, are July and August while the month with the lowest monthly average minimum temperature value, 14 ^{O}F, is January.

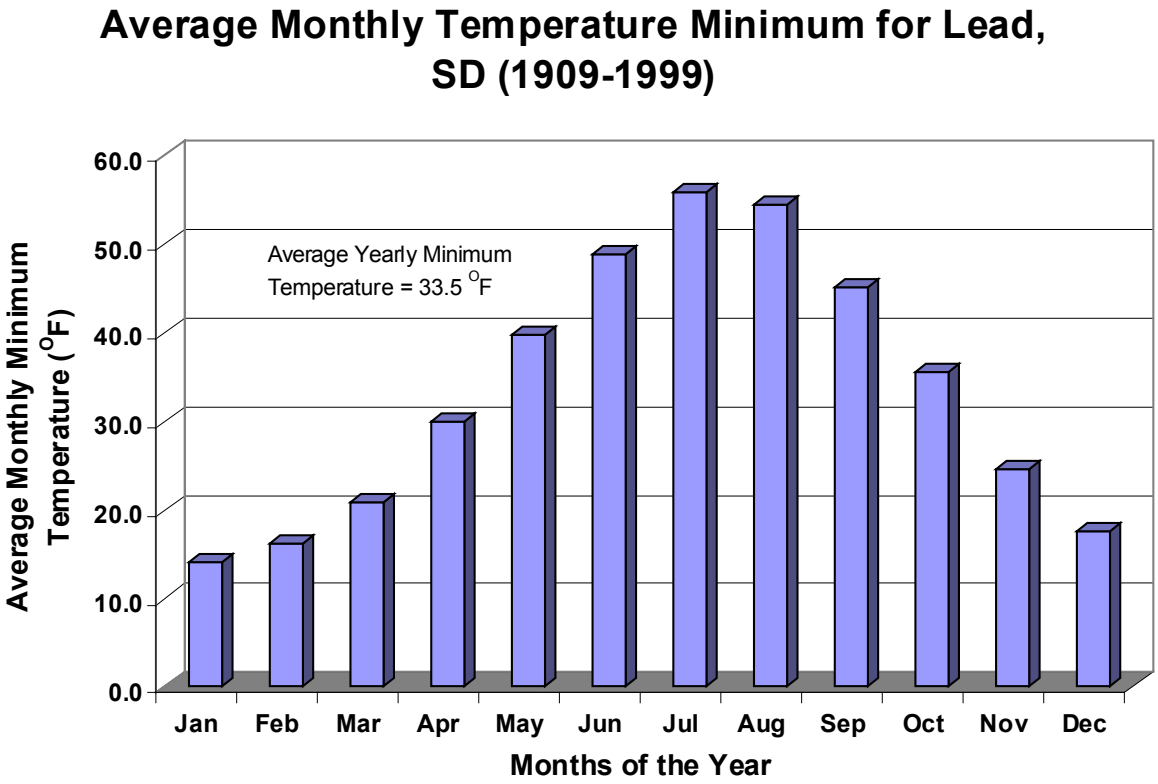


Figure 27. Average monthly temperature minimums (1909-1999) for Lead, South Dakota (daily data from Bender, 2000b).

Average Temperatures – 91 yr average

The monthly temperature averages for the 91 years studied at Lead, SD are shown in Figure 28. The months with the highest monthly average temperatures, >66 ^{O}F, are July and August while the month with the lowest monthly average temperatures, 24 ^{O}F, is January.

Average Monthly Maximum Temperatures (missing data caused differences in n values)

The distribution (histograms) of the monthly average maximum temperatures (AMxT) for each month of the year (Figures 29a, 29c, 29e, 29g, 29i, 29k, 29n, 29q, 29s, 29u, 29w, and 29y) and as a function of year (Figures 29b, 29d, 29f, 29h, 29j, 29m, 29p, 29r, 29t, 29v, 29x, and 29z) at Lead, SD show interesting trends. Most months have normal distributions of AMxT while October (Figure 29u) and December (Figure 29y) do not have a normal distribution (p of W <0.05) during 1909-1999. The highest AMxT was 91.0 ^{O}F during July 1936 and the lowest recorded AMxT was 16.9 ^{O}F during January 1930. Eight months (Jan, Apr, May, Jun, Sep, Oct, Nov, and Dec) had no significant trend when AMxT and year were compared. February had a significant upward trend with year (Figure 29d). The months of March, July, and August (Figures 29f, 29p, and 29r, respectively) had curvilinear trends with minimum AMxT values occurring during the 1950s ($p \leq 0.056$).

The distribution of Lead, SD average annual maximum temperatures for 1909-1999 is normal (Figures 30a and 30b). No significant trend in average annual maximum temperature was observed during the 91-year study period.

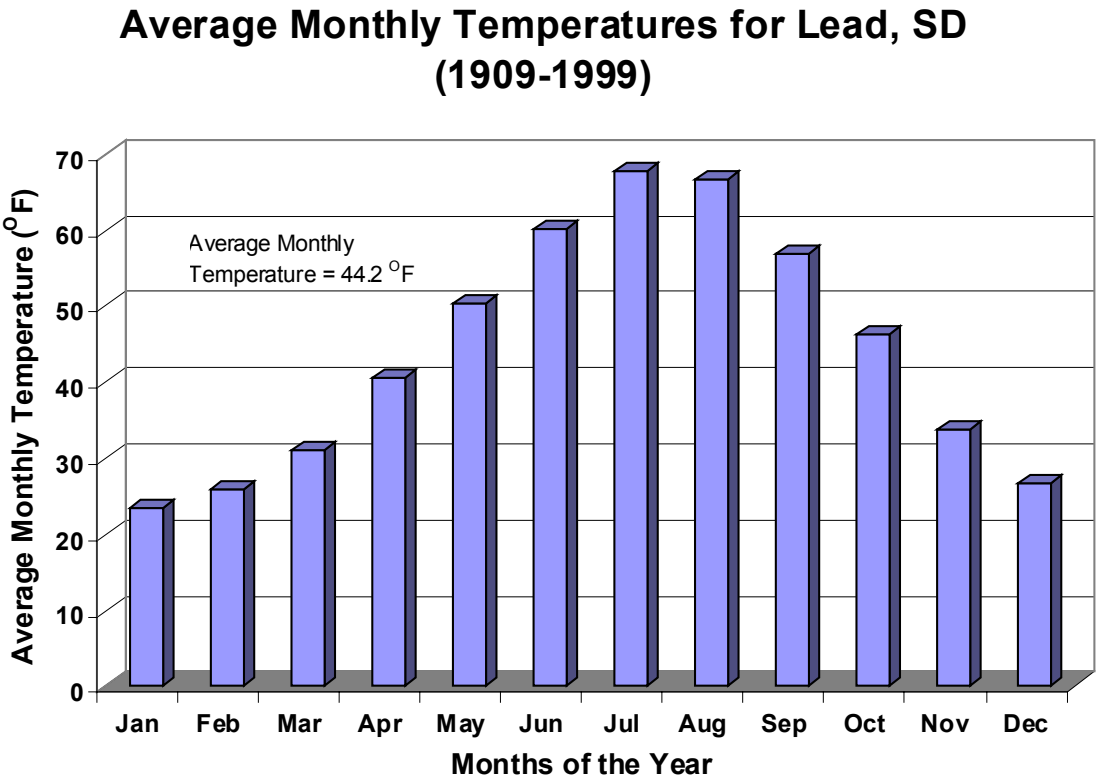
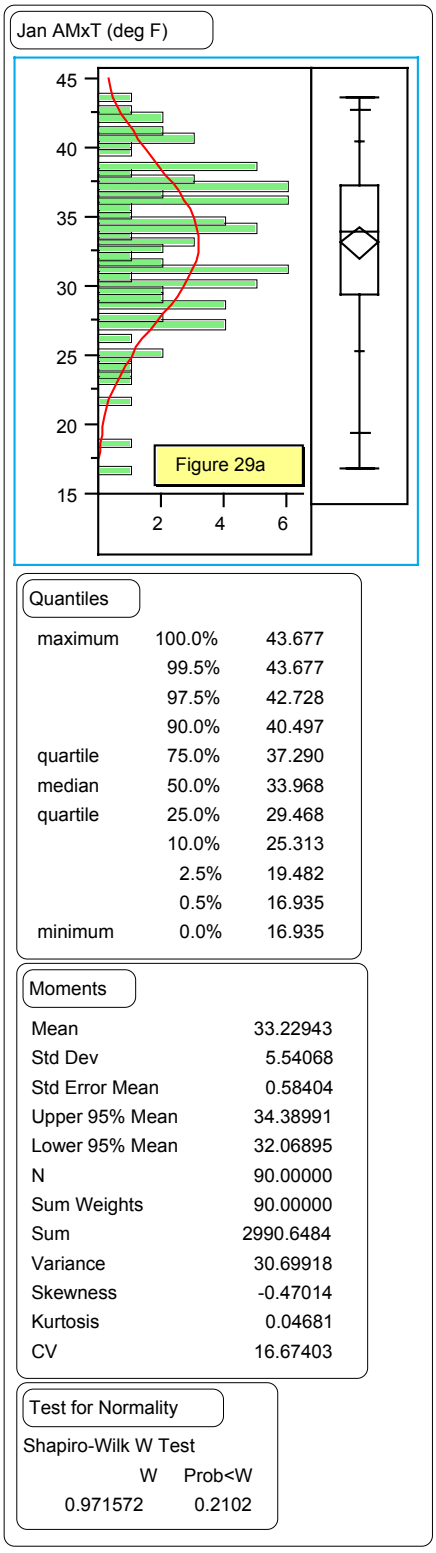


Figure 28. Average monthly temperatures (1909-1999) for Lead, South Dakota (daily data from Bender, 2000b).

Average Monthly Minimum Temperatures (missing data caused differences in n values)
The distribution (histograms) of the monthly average minimum temperatures (AMnT) for each month of the year (Figures 31a, 31c, 31e, 31g, 31i, 31k, 31n, 31q, 31s, 31u, 31w, and 31y) and as a function of year (Figures 31b, 31d, 31f, 31h, 31j, 31m, 31p, 31r, 31t, 31v, 31x, and 31z) at Lead, SD (1909-1999) show interesting trends. Most months have normal distributions of AMnT. Two months [January (Figure 31a) and December (Figure 31y)] were not normal with W values <0.05. The highest AMnT was 63.3 ^{O}F during July 1936. The lowest recorded AMnT was – 4.2 ^{O}F during February 1936. Nine months had no significant trend when AMnT and year were compared. February (Figure 31d) had a significant increasing trend of AMnT with year. The months of July (Figure 31p) and October (Figure 31v) had significant curvilinear trends with the maximum AMnT values occurring during the 1950s.

When examining the normal distribution of Lead, SD average annual minimum temperatures for 1909-1999 there was no significant relationship between AMnT and year (Figures 32a and 32b). The yearly average minimum temperatures have not significantly changed from 1943 to 1999.



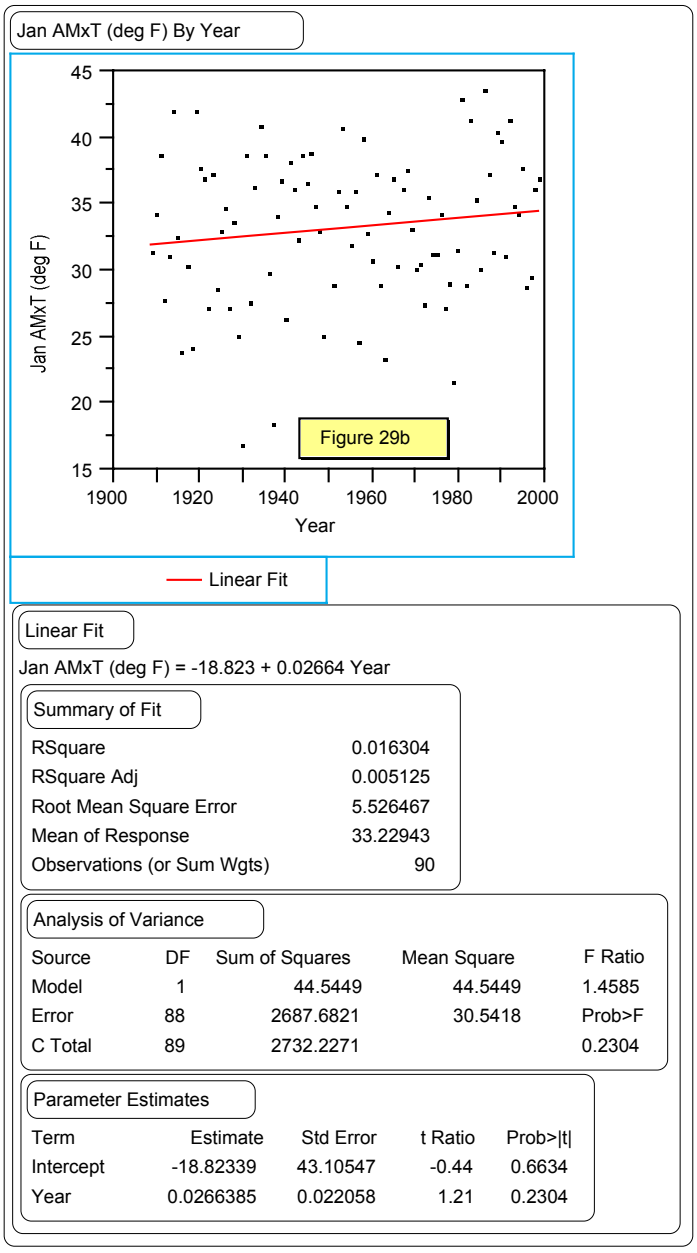


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for January (Figure 29a) and distribution through 1909-1999 (Figure 29b) for Lead, SD. On Figure 29a the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

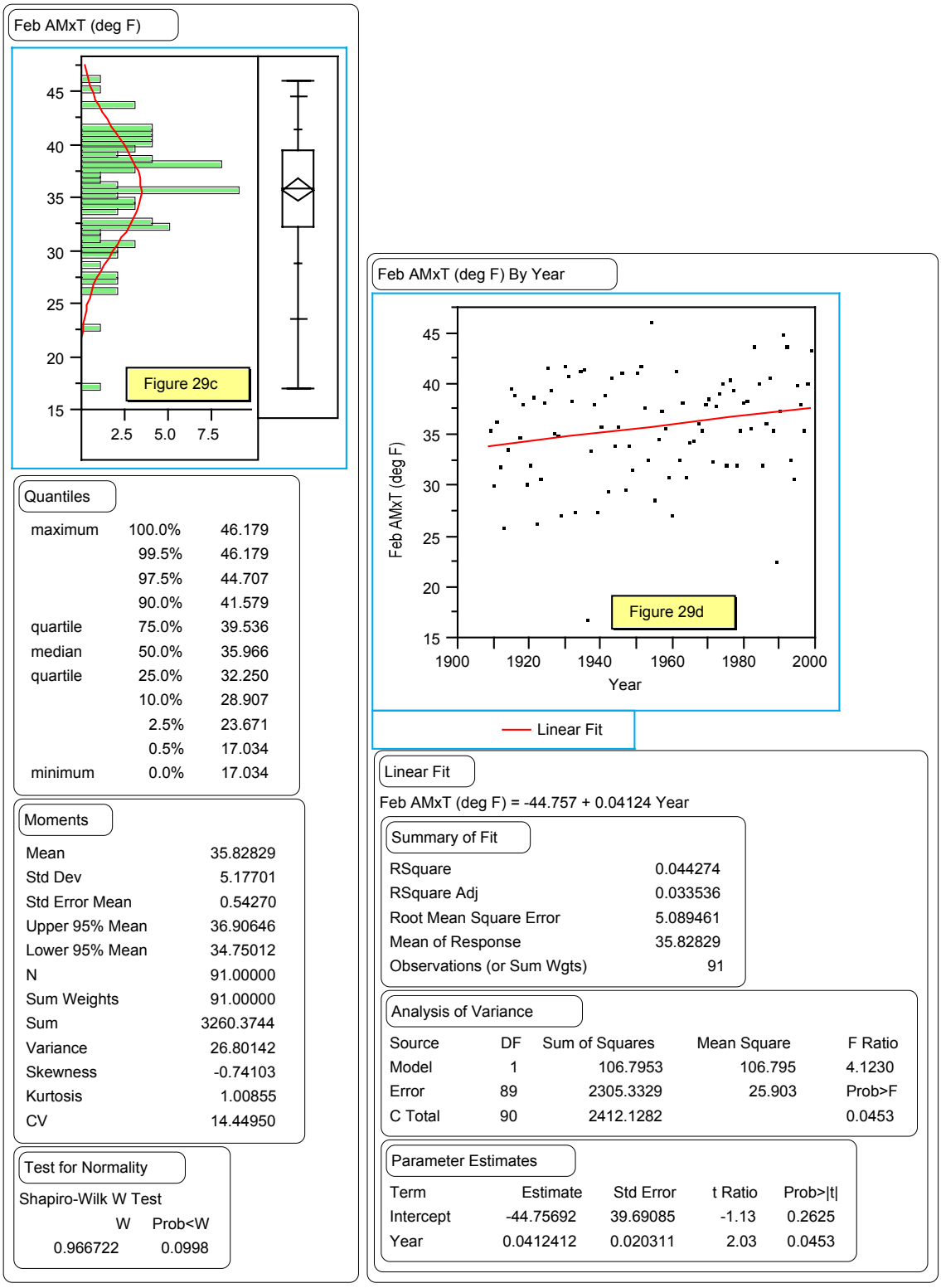
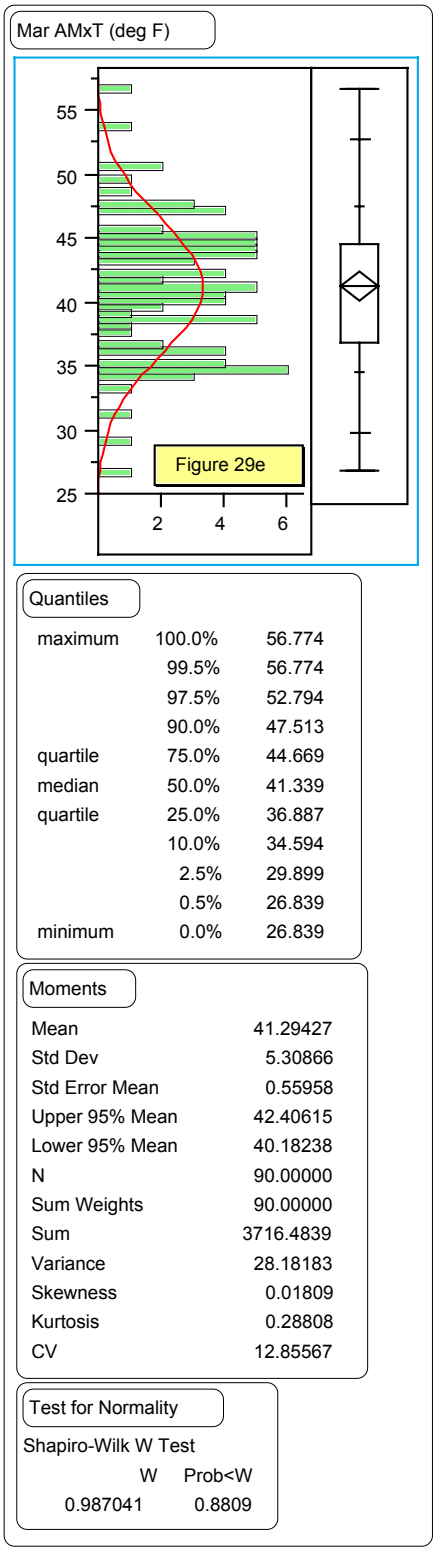


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for February (Figure 29c) and distribution through 1909-1999 (Figure 29d) for Lead, SD. On Figure 29c the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	56.774
	99.5%	56.774
	97.5%	52.794
	90.0%	47.513
quartile	75.0%	44.669
median	50.0%	41.339
quartile	25.0%	36.887
	10.0%	34.594
	2.5%	29.899
	0.5%	26.839
minimum	0.0%	26.839

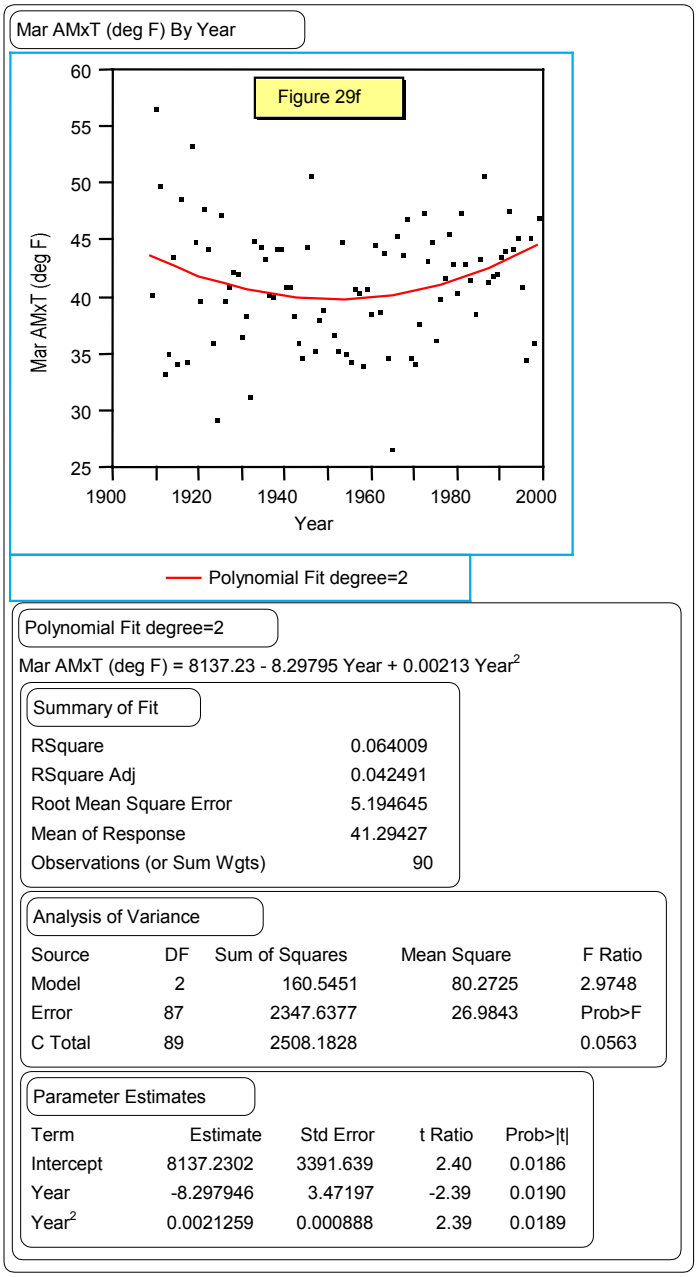
Moments

Mean	41.29427
Std Dev	5.30866
Std Error Mean	0.55958
Upper 95% Mean	42.40615
Lower 95% Mean	40.18238
N	90.00000
Sum Weights	90.00000
Sum	3716.4839
Variance	28.18183
Skewness	0.01809
Kurtosis	0.28808
CV	12.85567

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.987041	0.8809



Polynomial Fit degree=2

Mar AMxT (deg F) = 8137.23 - 8.29795 Year + 0.00213 Year^2

Summary of Fit

RSquare	0.064009
RSquare Adj	0.042491
Root Mean Square Error	5.194645
Mean of Response	41.29427
Observations (or Sum Wgts)	90

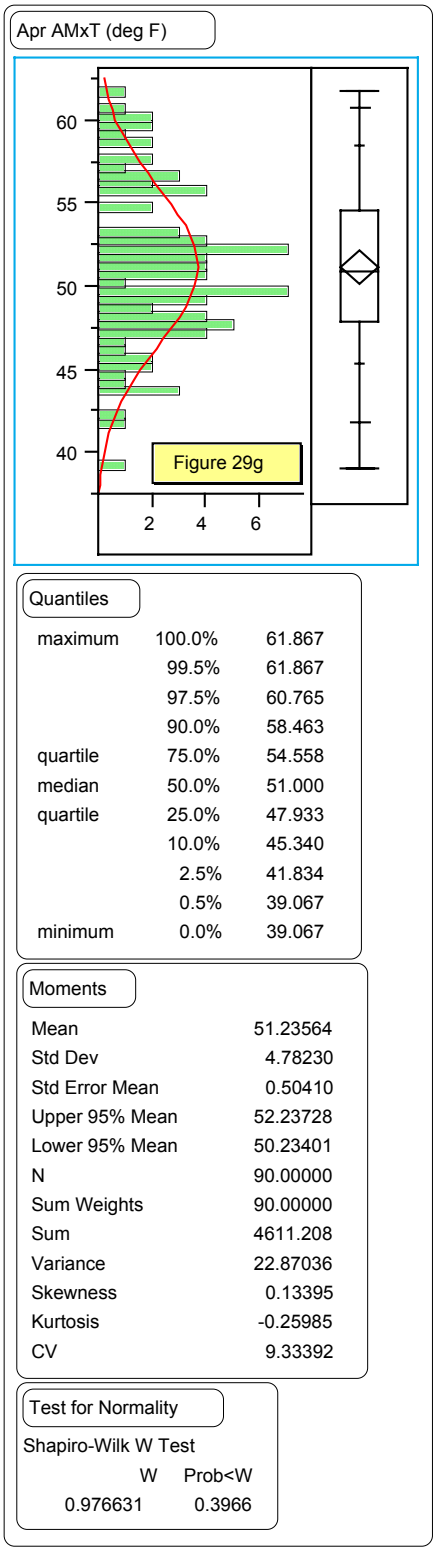
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	160.5451	80.2725	2.9748
Error	87	2347.6377	26.9843	Prob>F
C Total	89	2508.1828		0.0563

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	8137.2302	3391.639	2.40	0.0186
Year	-8.297946	3.47197	-2.39	0.0190
Year^2	0.0021259	0.000888	2.39	0.0189

Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for March (Figure 29e) and distribution through 1909-1999 (Figure 29f) for Lead, SD. On Figure 29e the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	61.867
	99.5%	61.867
	97.5%	60.765
	90.0%	58.463
quartile	75.0%	54.558
median	50.0%	51.000
quartile	25.0%	47.933
	10.0%	45.340
	2.5%	41.834
	0.5%	39.067
minimum	0.0%	39.067

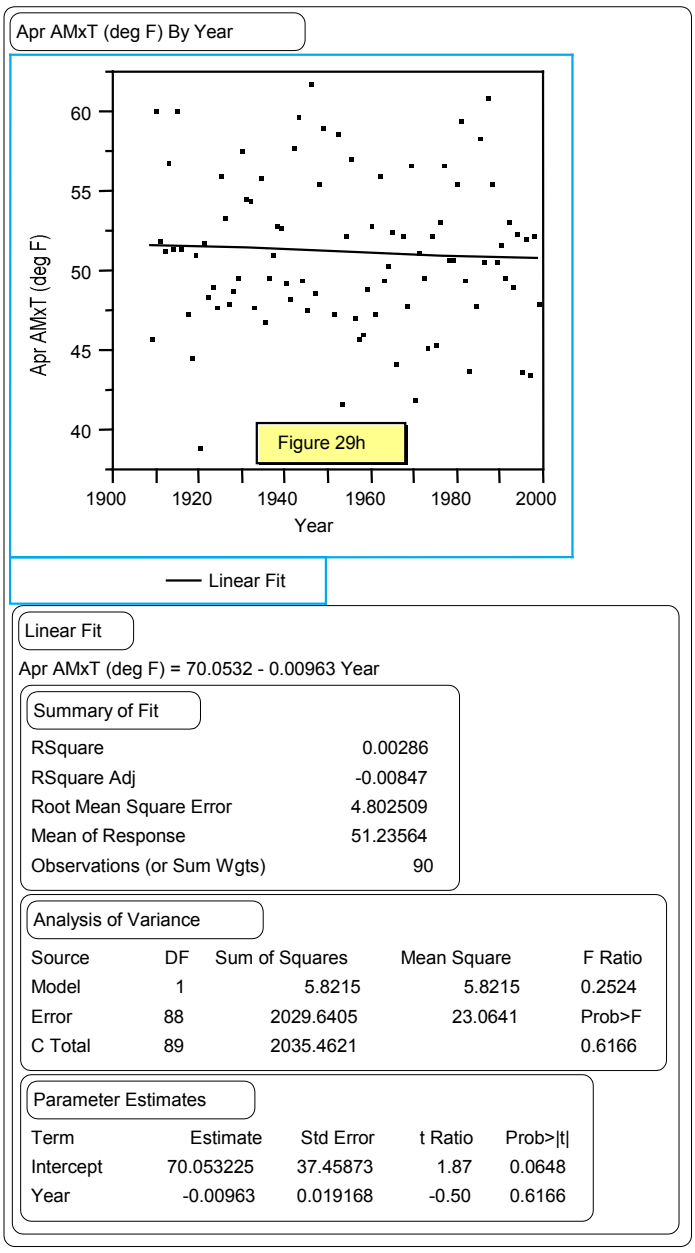
Moments

Mean	51.23564
Std Dev	4.78230
Std Error Mean	0.50410
Upper 95% Mean	52.23728
Lower 95% Mean	50.23401
N	90.00000
Sum Weights	90.00000
Sum	4611.208
Variance	22.87036
Skewness	0.13395
Kurtosis	-0.25985
CV	9.33392

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.976631	0.3966



Linear Fit

Apr AMxT (deg F) = 70.0532 - 0.00963 Year

Summary of Fit

RSquare	0.00286
RSquare Adj	-0.00847
Root Mean Square Error	4.802509
Mean of Response	51.23564
Observations (or Sum Wgts)	90

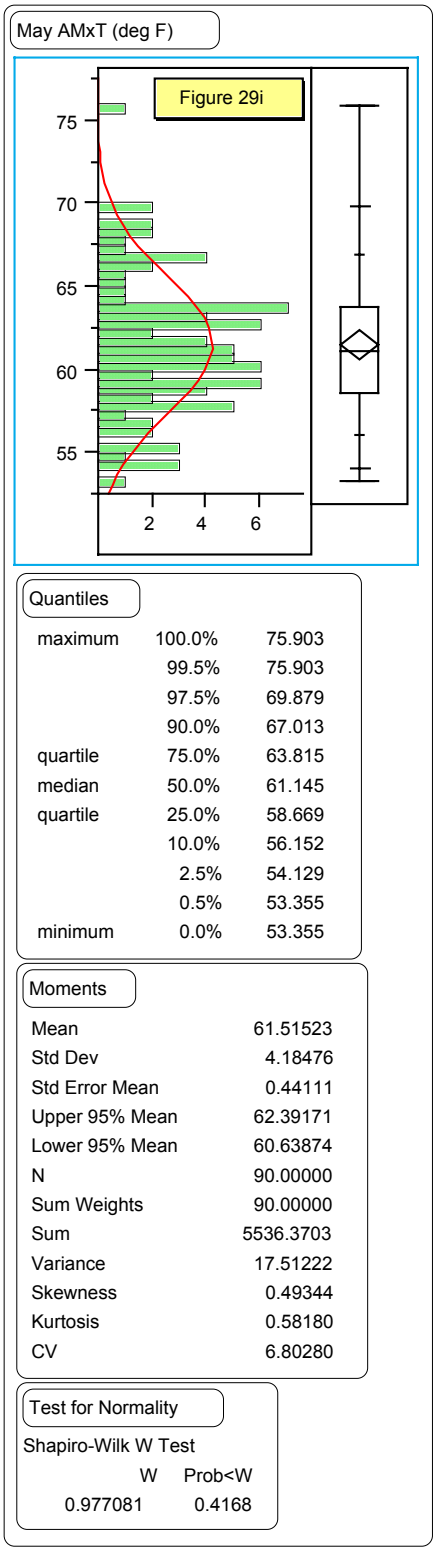
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	5.8215	5.8215	0.2524
Error	88	2029.6405	23.0641	Prob>F
C Total	89	2035.4621		0.6166

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	70.053225	37.45873	1.87	0.0648
Year	-0.00963	0.019168	-0.50	0.6166

Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for April (Figure 29g) and distribution through 1909-1999 (Figure 29h) for Lead, SD. On Figure 29g the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



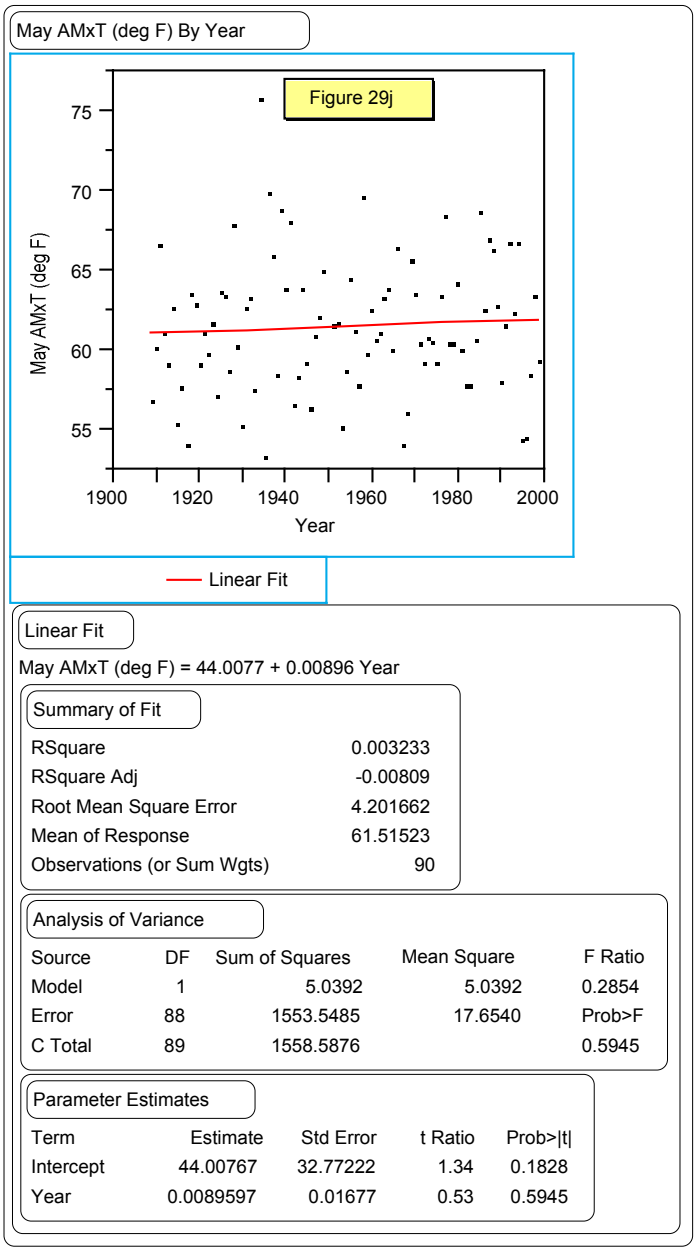


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for May (Figure 29i) and distribution through 1909-1999 (Figure 29j) for Lead, SD. On Figure 29i the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

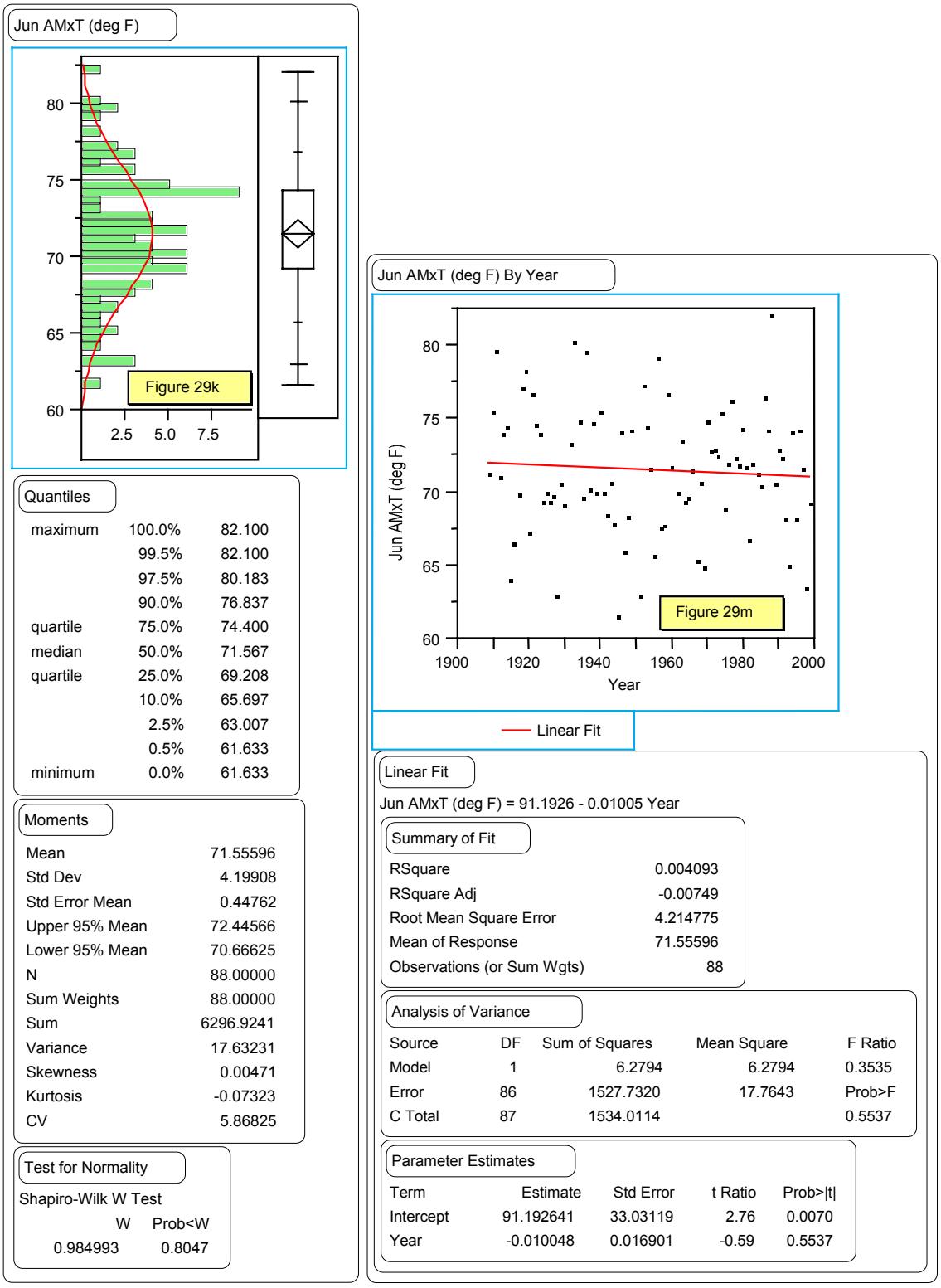


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for June (Figure 29k) and distribution through 1909-1999 (Figure 29m) for Lead, SD. On Figure 29k the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

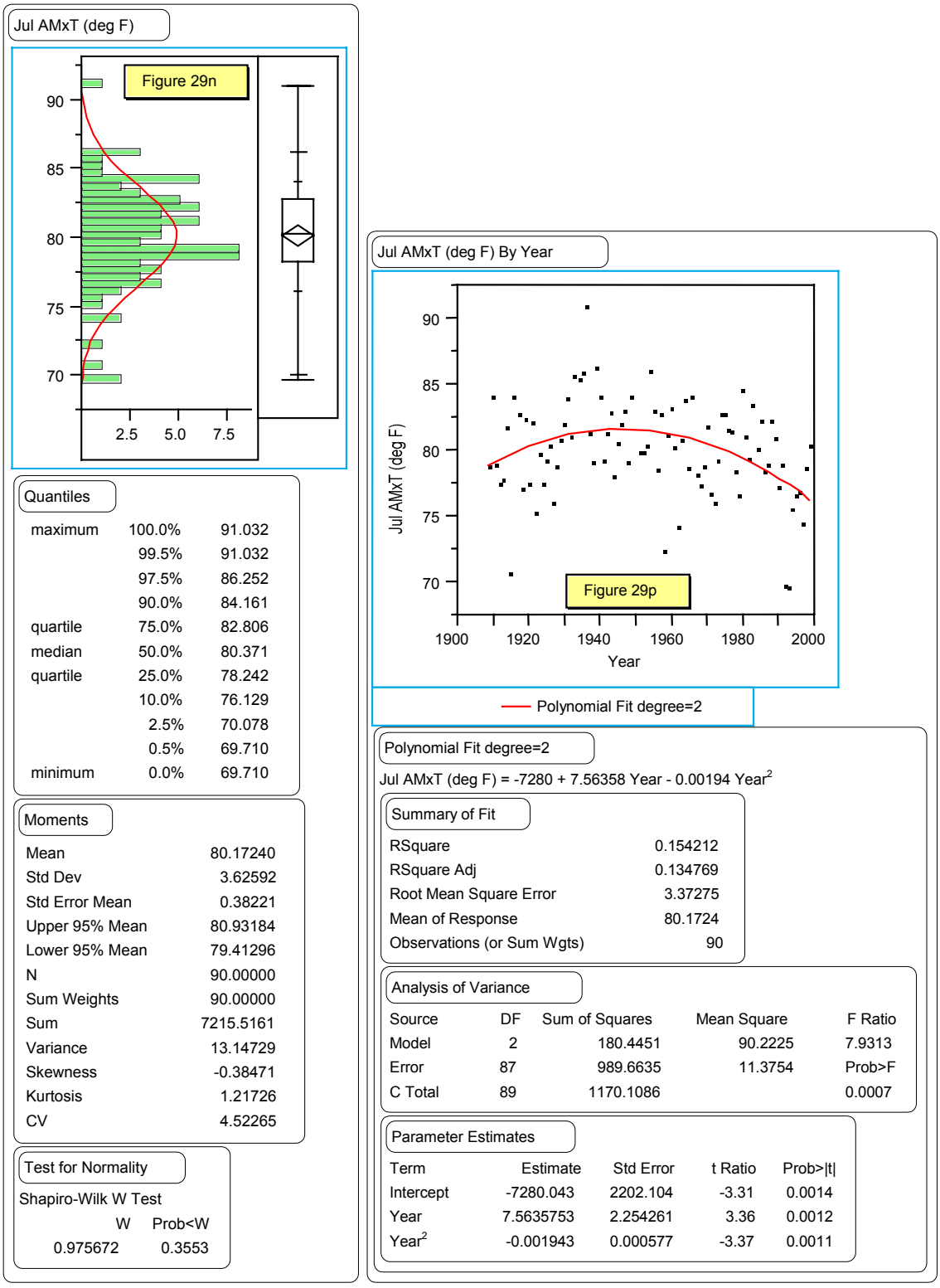


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for July (Figure 29n) and distribution through 1909-1999 (Figure 29p) for Lead, SD. On Figure 29n the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

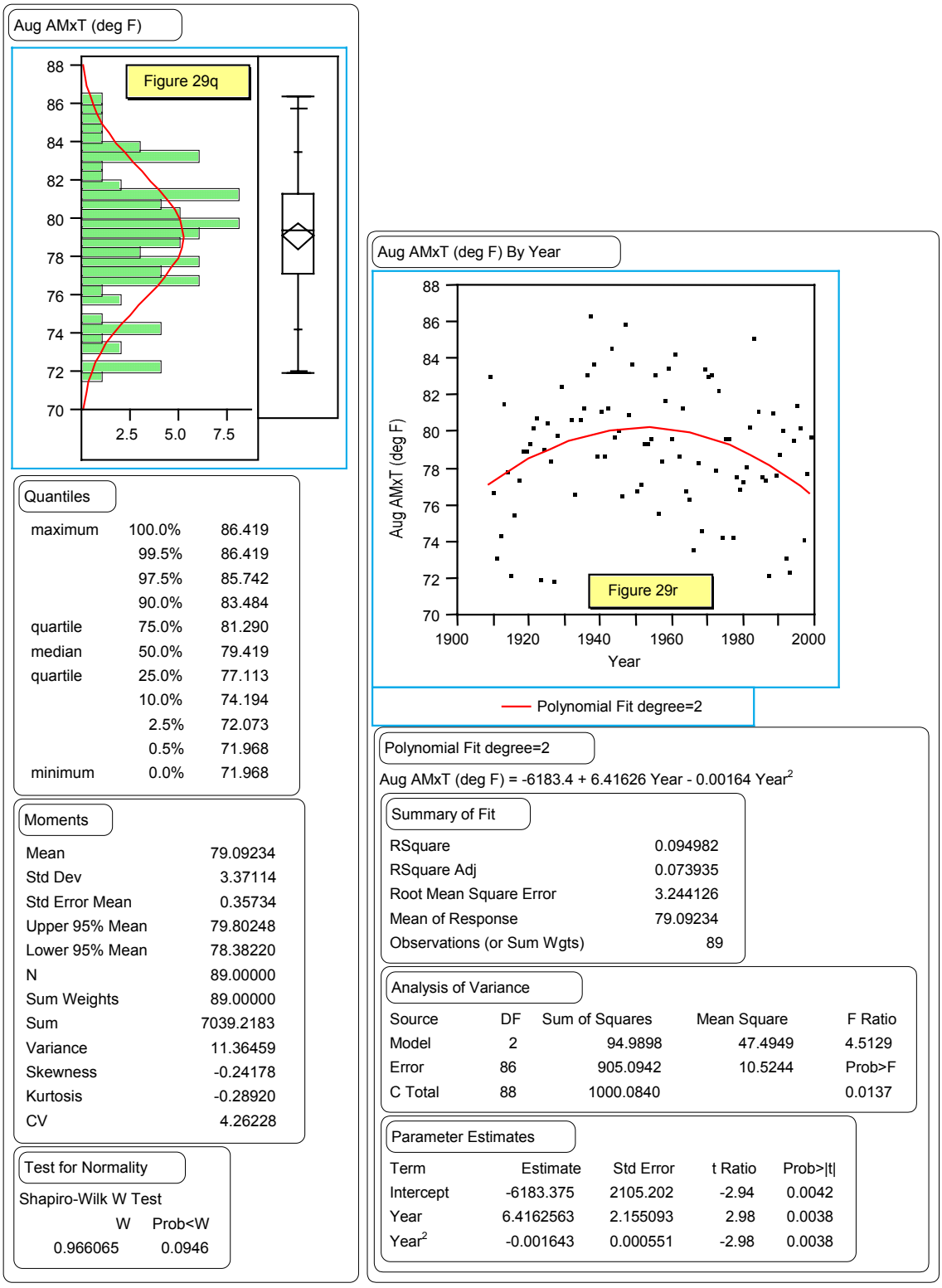
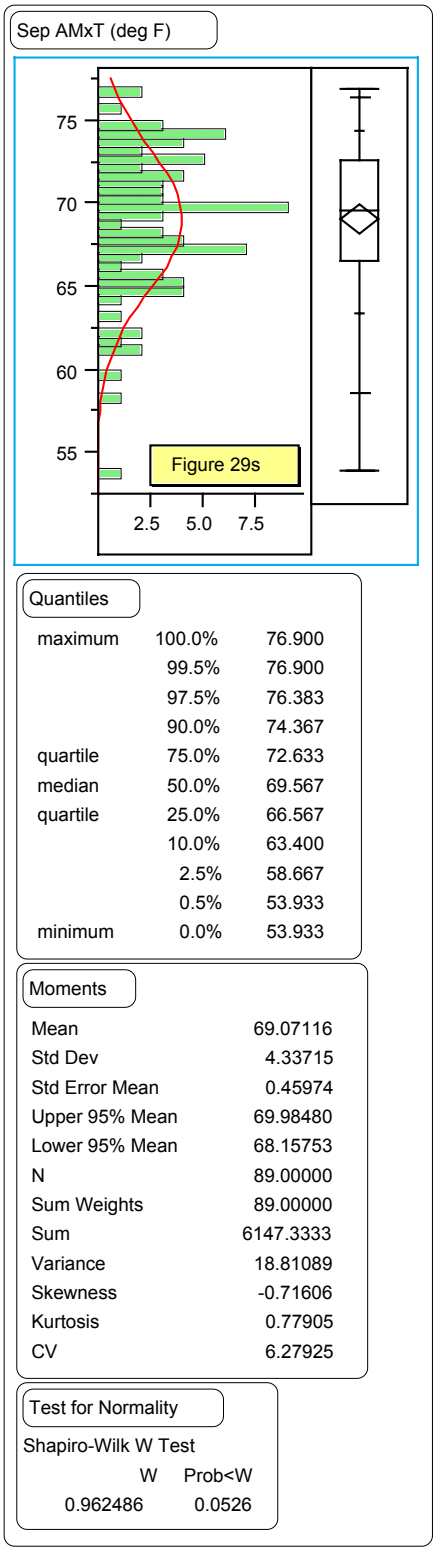


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for August (Figure 29q) and distribution through 1909-1999 (Figure 29r) for Lead, SD. On Figure 29q the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



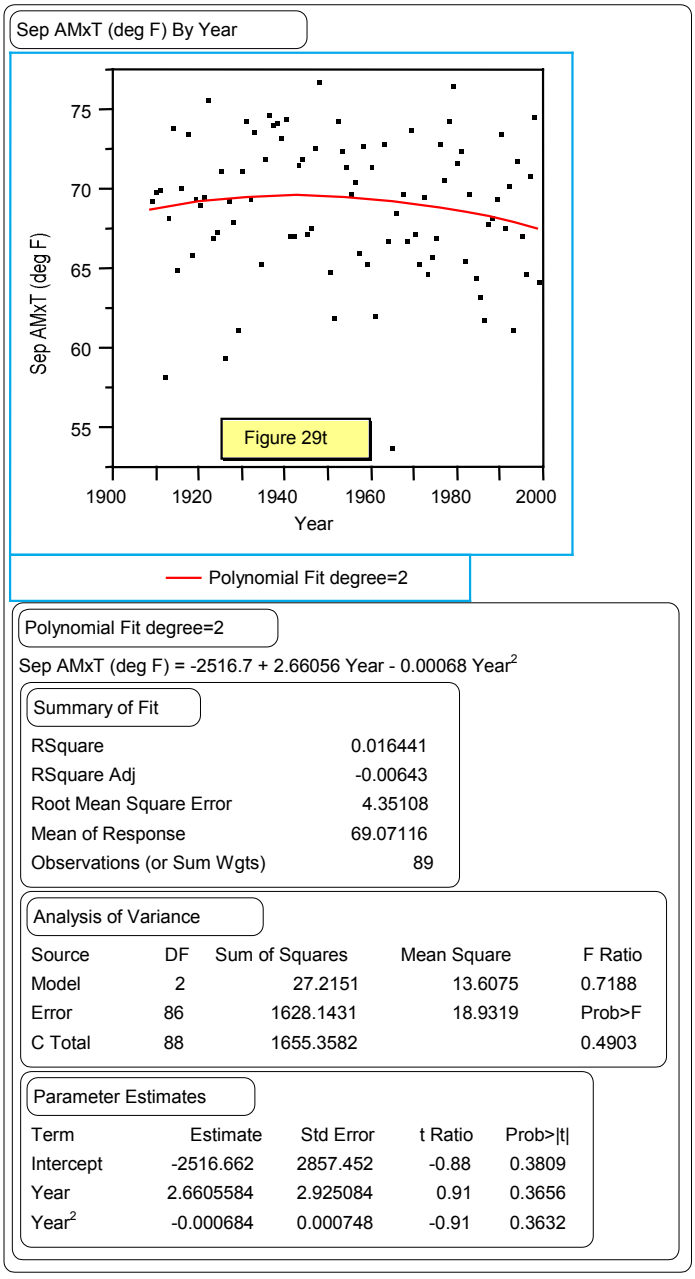
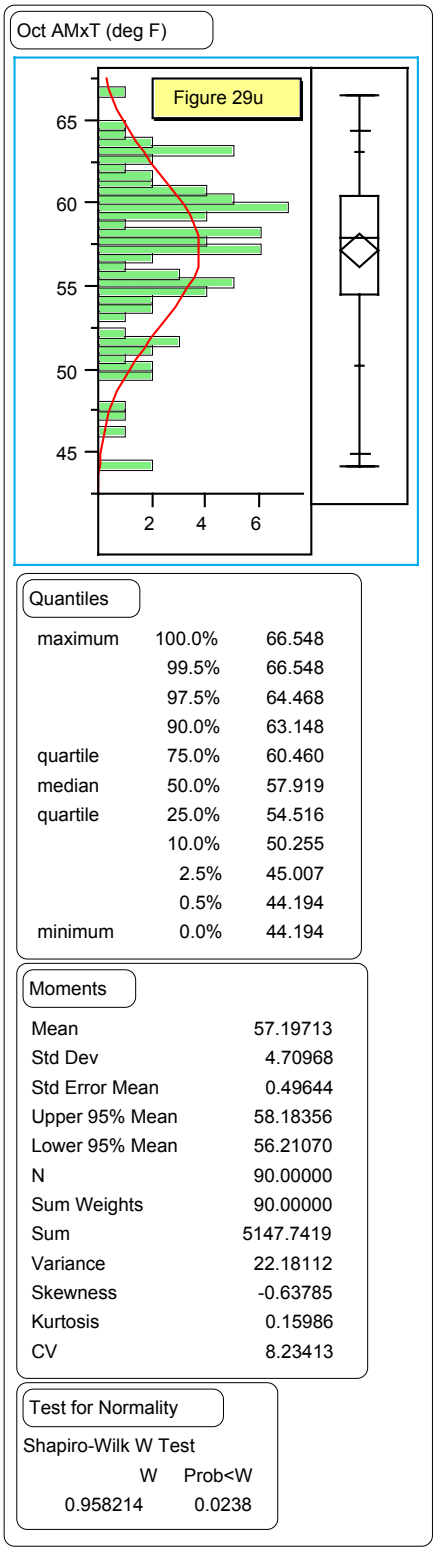


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for September (Figure 29s) and distribution through 1909-1999 (Figure 29t) for Lead, SD. On Figure 29s the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



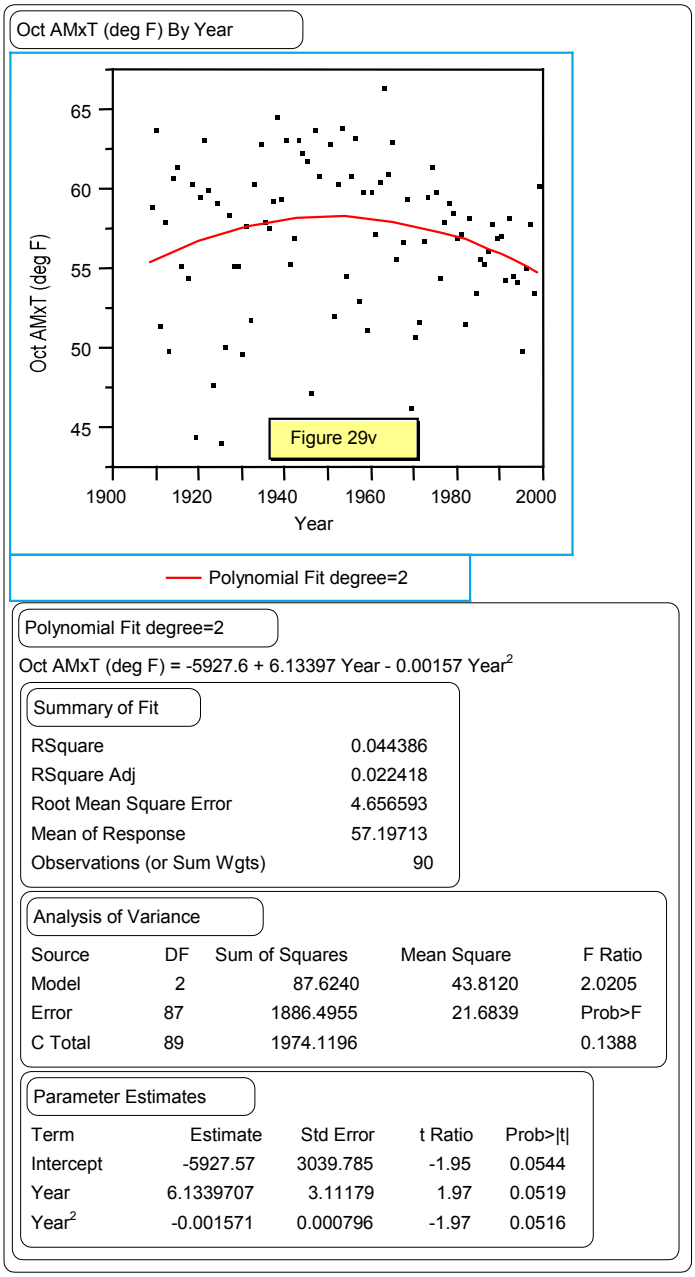


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for October (Figure 29u) and distribution through 1909-1999 (Figure 29v) for Lead, SD. On Figure 29u the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).

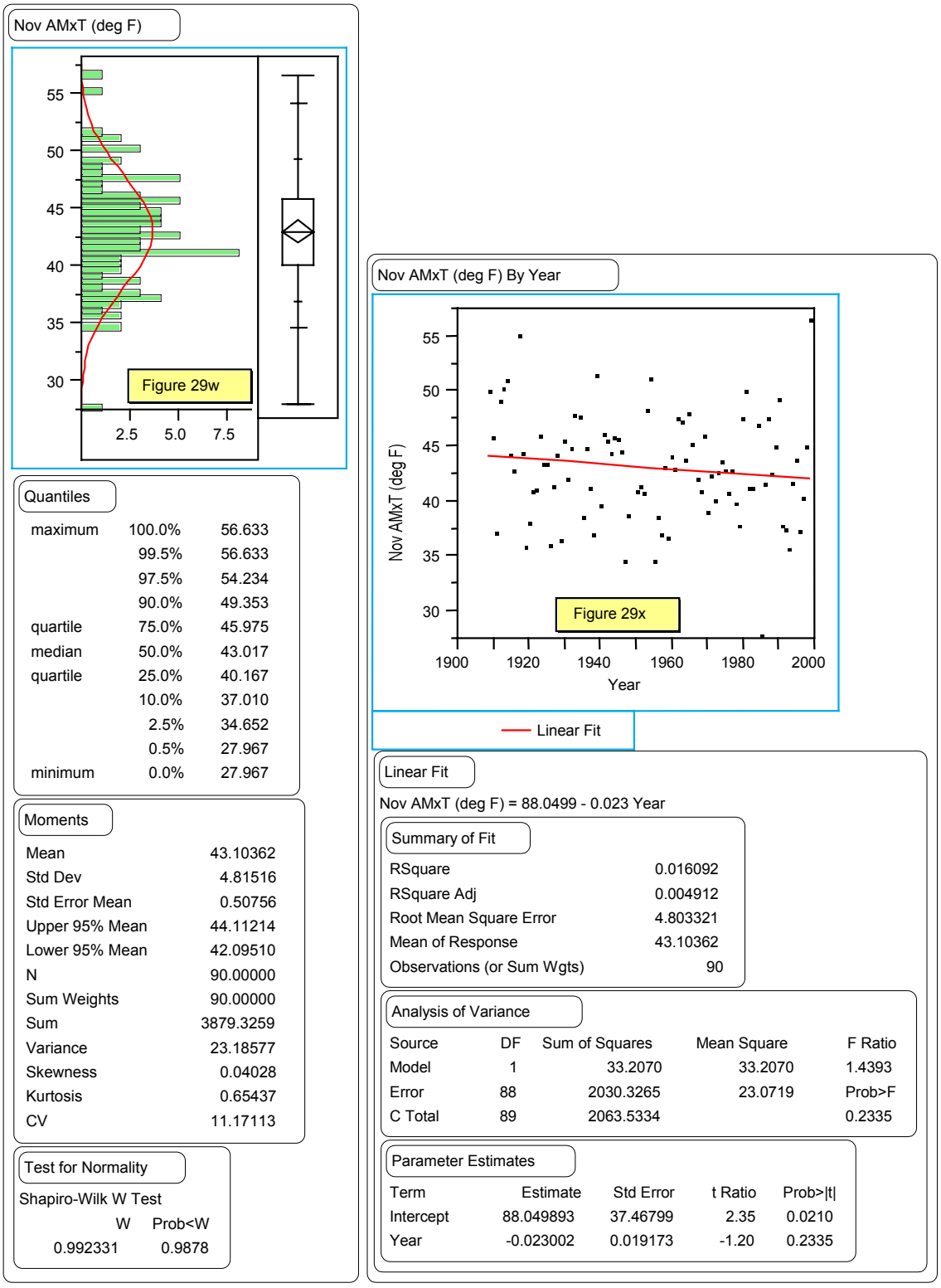
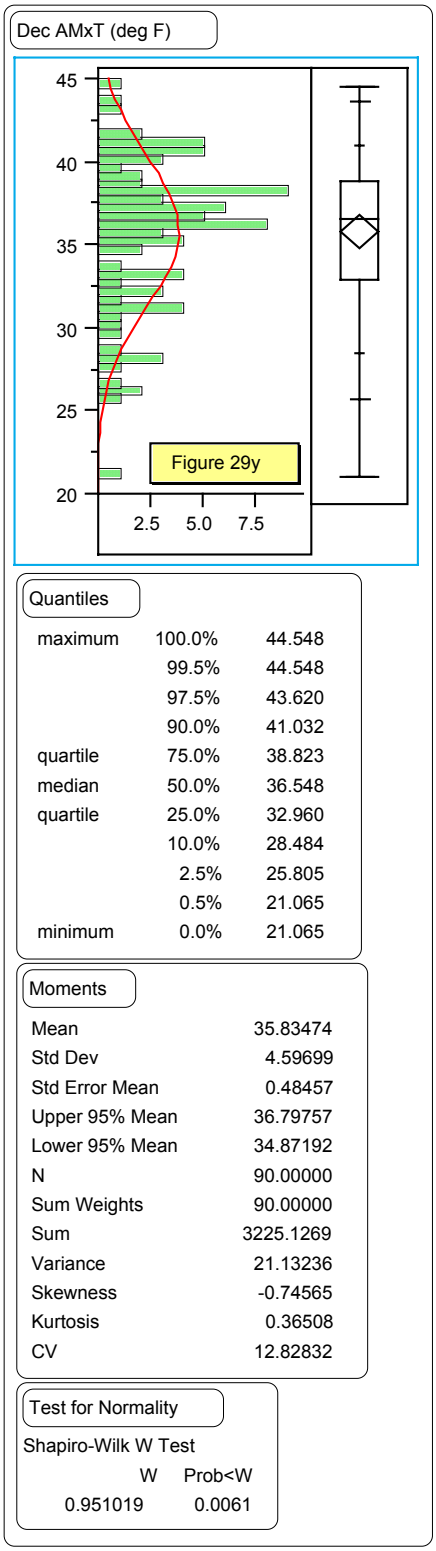


Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for November (Figure 29w) and distribution through 1909-1999 (Figure 29x) for Lead, SD. On Figure 29w the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	44.548
	99.5%	44.548
	97.5%	43.620
	90.0%	41.032
quartile	75.0%	38.823
median	50.0%	36.548
quartile	25.0%	32.960
	10.0%	28.484
	2.5%	25.805
	0.5%	21.065
minimum	0.0%	21.065

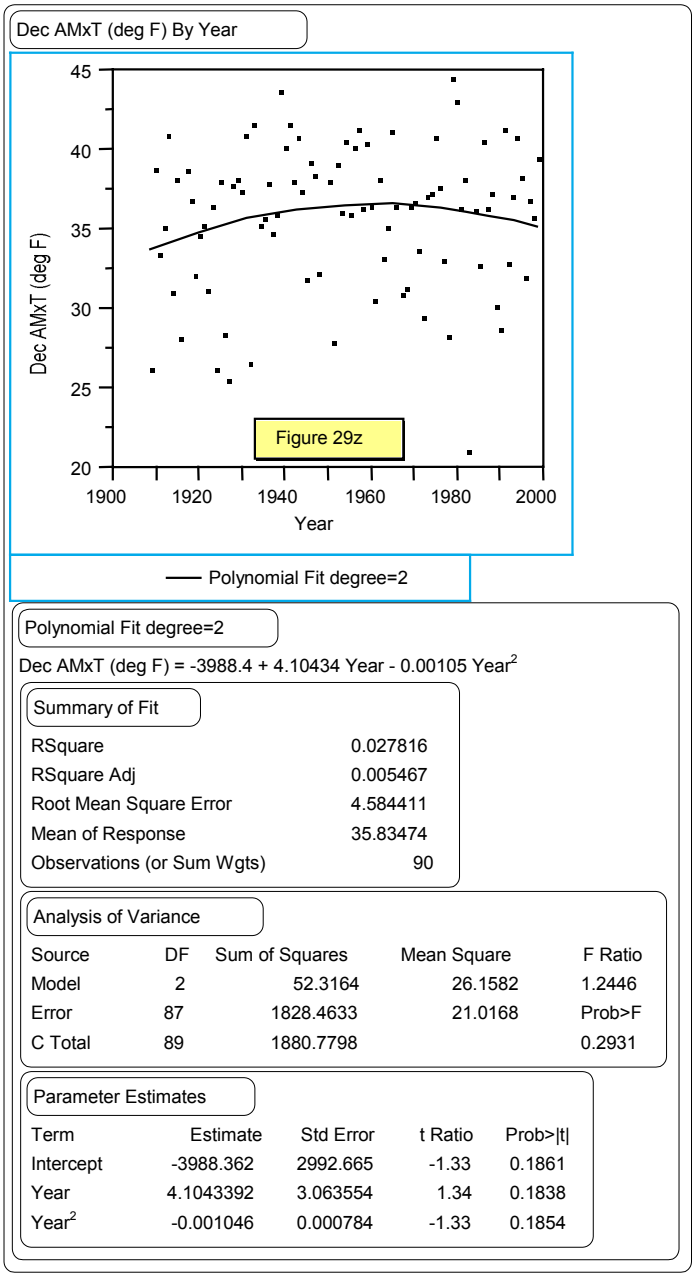
Moments

Mean	35.83474
Std Dev	4.59699
Std Error Mean	0.48457
Upper 95% Mean	36.79757
Lower 95% Mean	34.87192
N	90.00000
Sum Weights	90.00000
Sum	3225.1269
Variance	21.13236
Skewness	-0.74565
Kurtosis	0.36508
CV	12.82832

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.951019	0.0061



Polynomial Fit degree=2

Dec AMxT (deg F) = -3988.4 + 4.10434 Year - 0.00105 Year^2

Summary of Fit

RSquare	0.027816
RSquare Adj	0.005467
Root Mean Square Error	4.584411
Mean of Response	35.83474
Observations (or Sum Wgts)	90

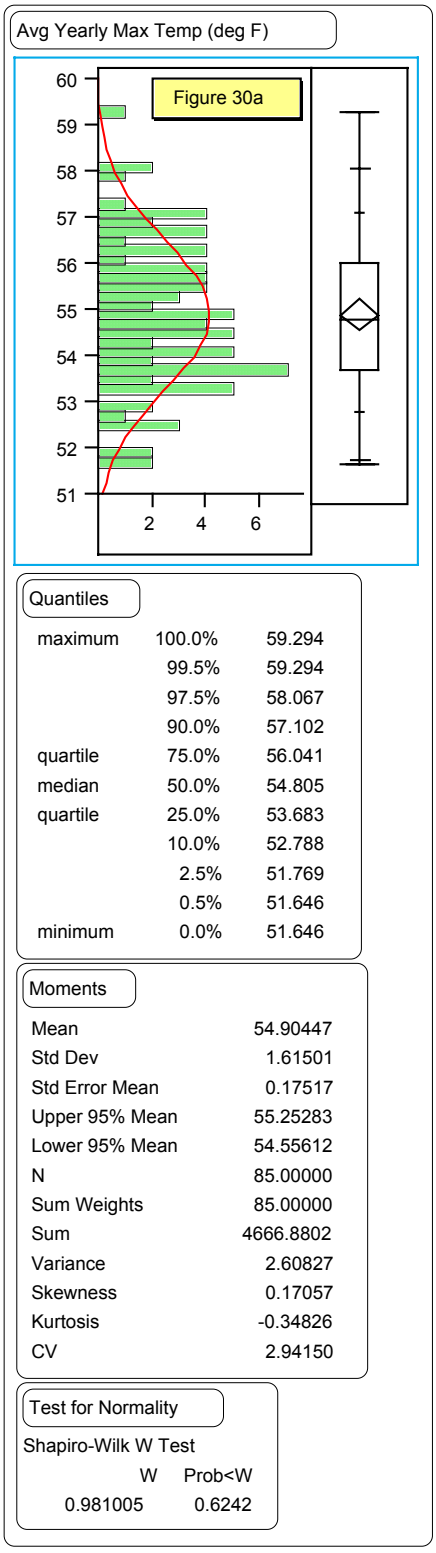
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	52.3164	26.1582	1.2446
Error	87	1828.4633	21.0168	Prob>F
C Total	89	1880.7798		0.2931

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-3988.362	2992.665	-1.33	0.1861
Year	4.1043392	3.063554	1.34	0.1838
Year^2	-0.001046	0.000784	-1.33	0.1854

Figure 29. Monthly average maximum temperature (^{O}F), AMxT, histogram for December (Figure 29y) and distribution through 1909-1999 (Figure 29z) for Lead, SD. On Figure 29y the Y axis = average monthly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



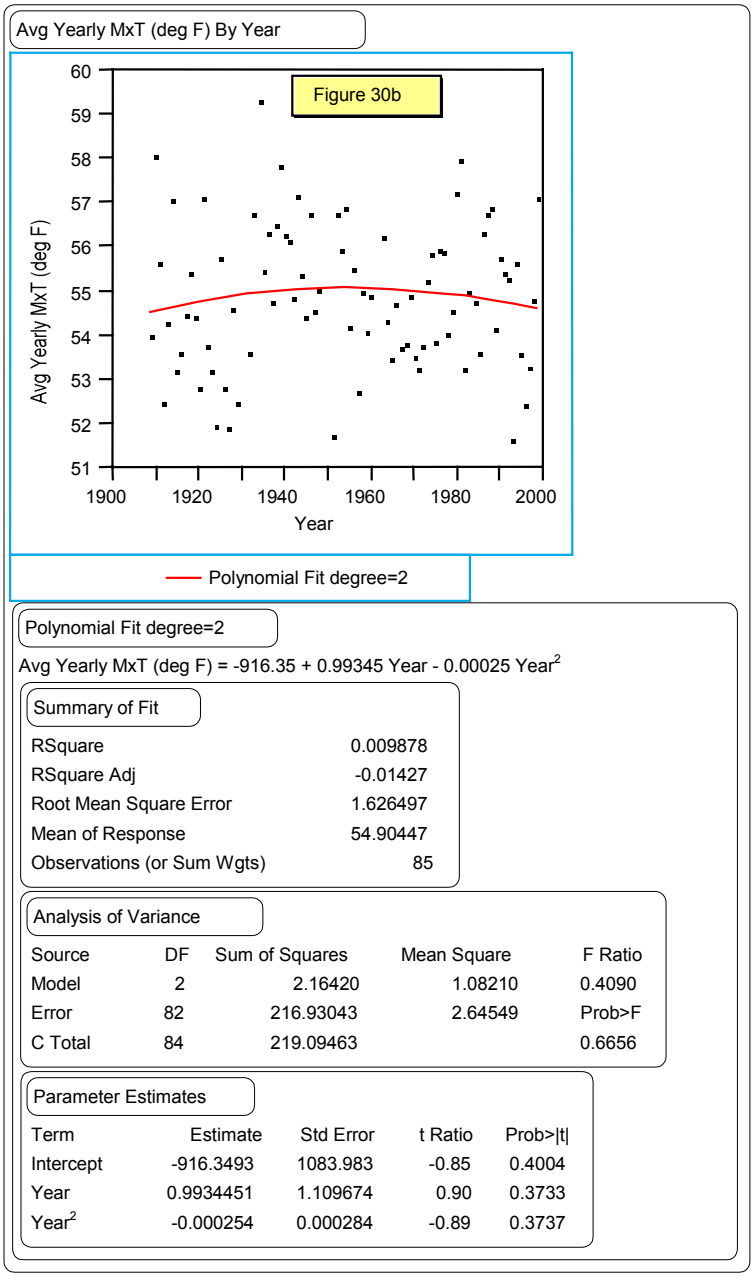
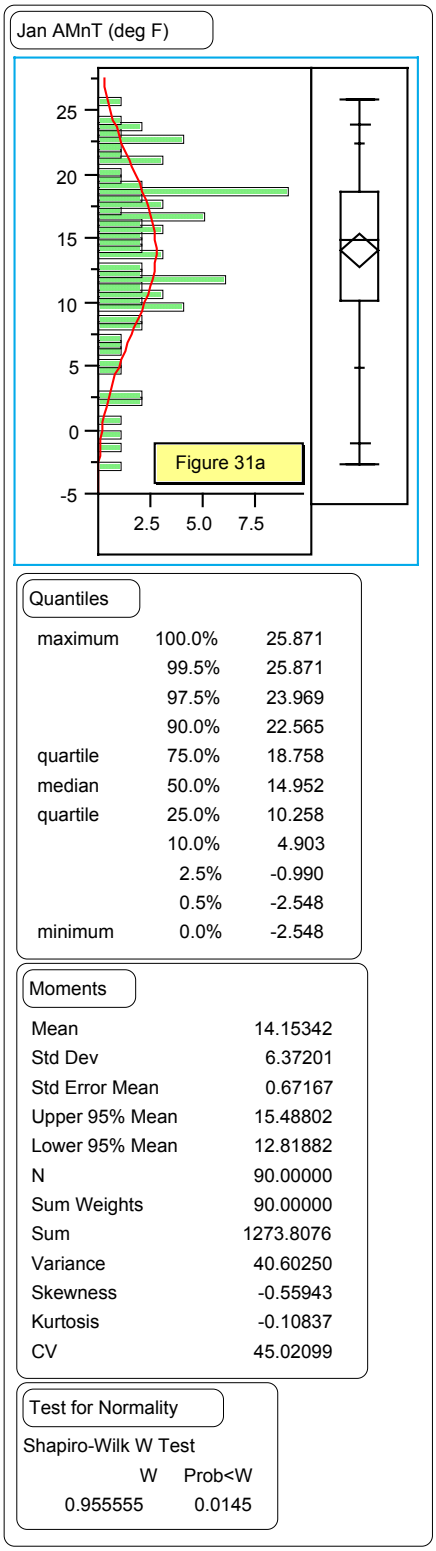


Figure 30. Average annual maximum temperature, MxT, (^{O}F) histogram (Figure 30a) and as function of year (Figure 30b) for Lead, SD (1943-1999). On Figure 30a the Y axis = average yearly maximum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	25.871
	99.5%	25.871
	97.5%	23.969
	90.0%	22.565
quartile	75.0%	18.758
median	50.0%	14.952
quartile	25.0%	10.258
	10.0%	4.903
	2.5%	-0.990
	0.5%	-2.548
minimum	0.0%	-2.548

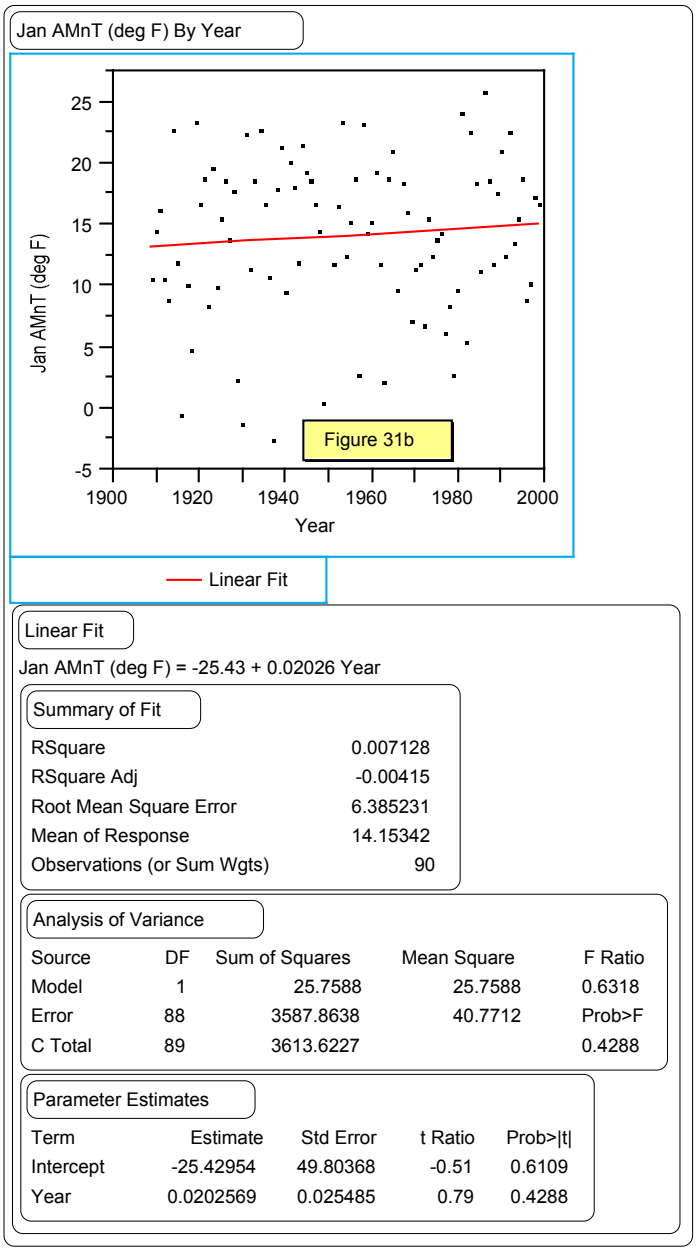
Moments

Mean	14.15342
Std Dev	6.37201
Std Error Mean	0.67167
Upper 95% Mean	15.48802
Lower 95% Mean	12.81882
N	90.00000
Sum Weights	90.00000
Sum	1273.8076
Variance	40.60250
Skewness	-0.55943
Kurtosis	-0.10837
CV	45.02099

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.955555	0.0145



Linear Fit

Jan AMnT (deg F) = -25.43 + 0.02026 Year

Summary of Fit

RSquare	0.007128
RSquare Adj	-0.00415
Root Mean Square Error	6.385231
Mean of Response	14.15342
Observations (or Sum Wgts)	90

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	25.7588	25.7588	0.6318
Error	88	3587.8638	40.7712	Prob>F
C Total	89	3613.6227		0.4288

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-25.42954	49.80368	-0.51	0.6109
Year	0.0202569	0.025485	0.79	0.4288

Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for January (Figure 31a) and distribution through 1909-1999 (Figure 31b) for Lead, SD. On Figure 31a the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

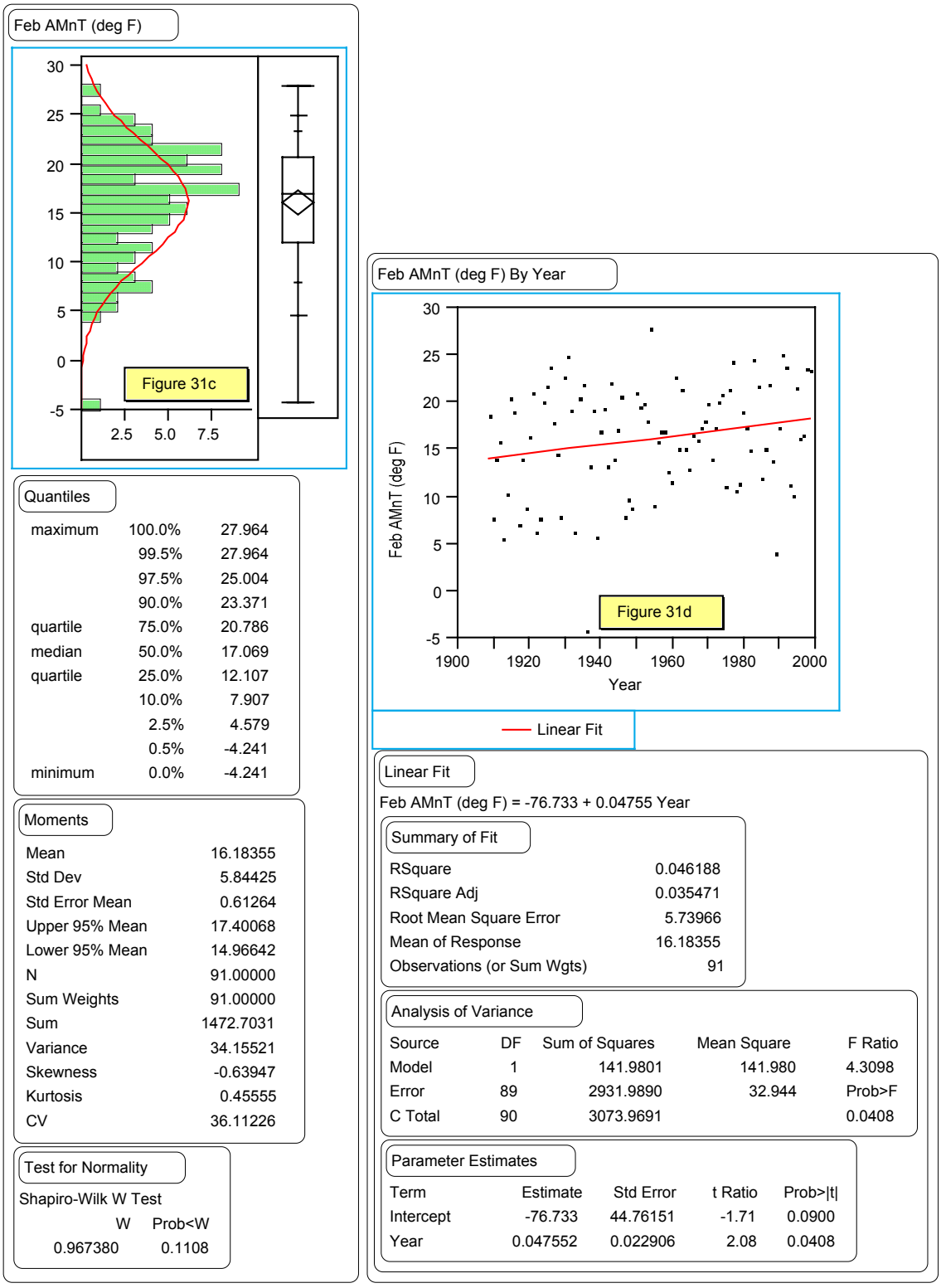


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for February (Figure 31c) and distribution through 1909-1999 (Figure 31d) for Lead, SD. On Figure 31c the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

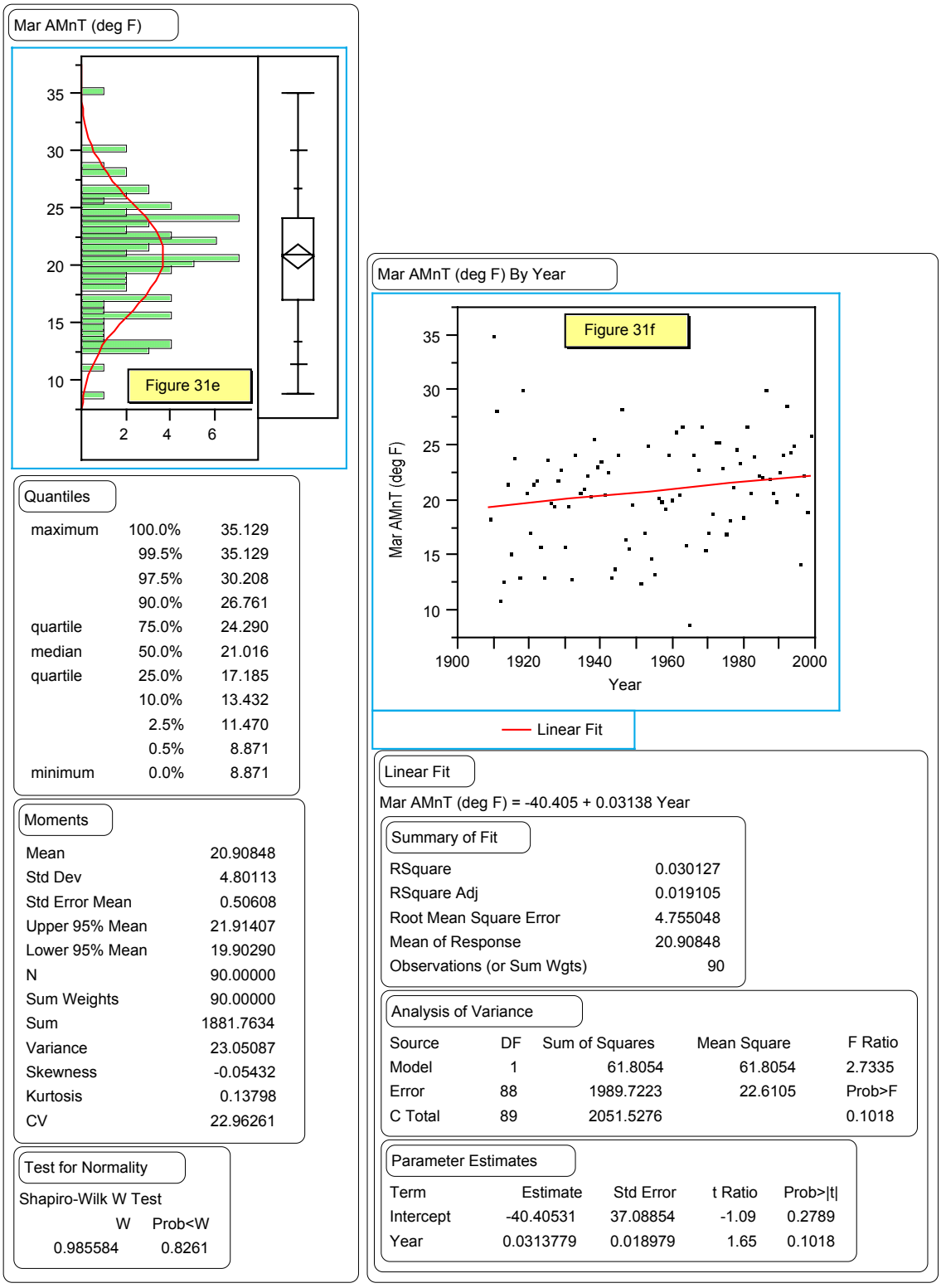
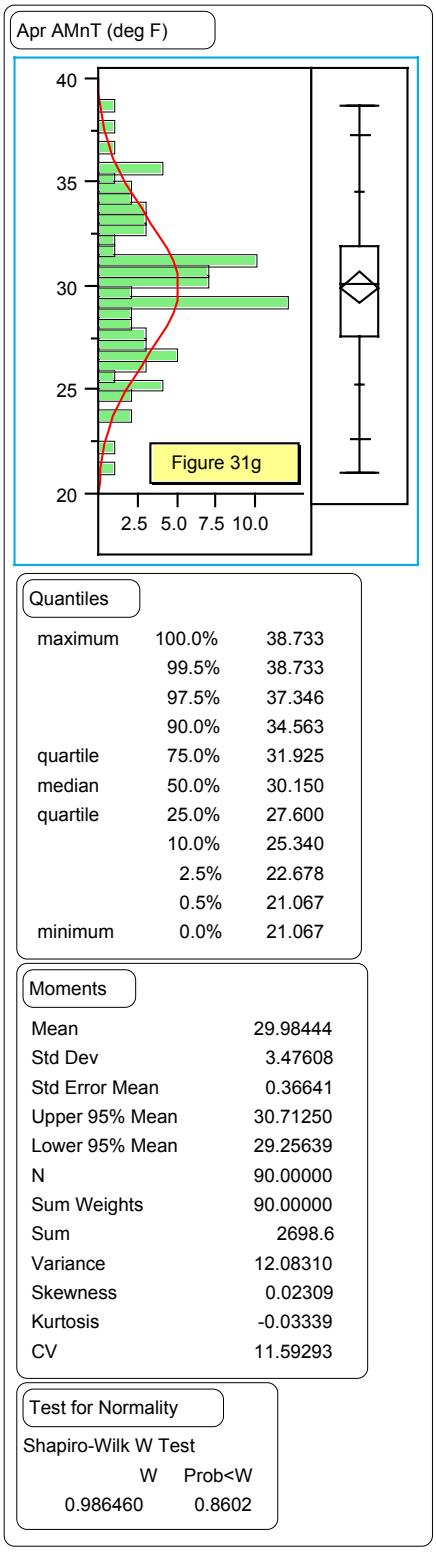


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for March (Figure 31e) and distribution through 1909-1999 (Figure 31f) for Lead, SD. On Figure 31e the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



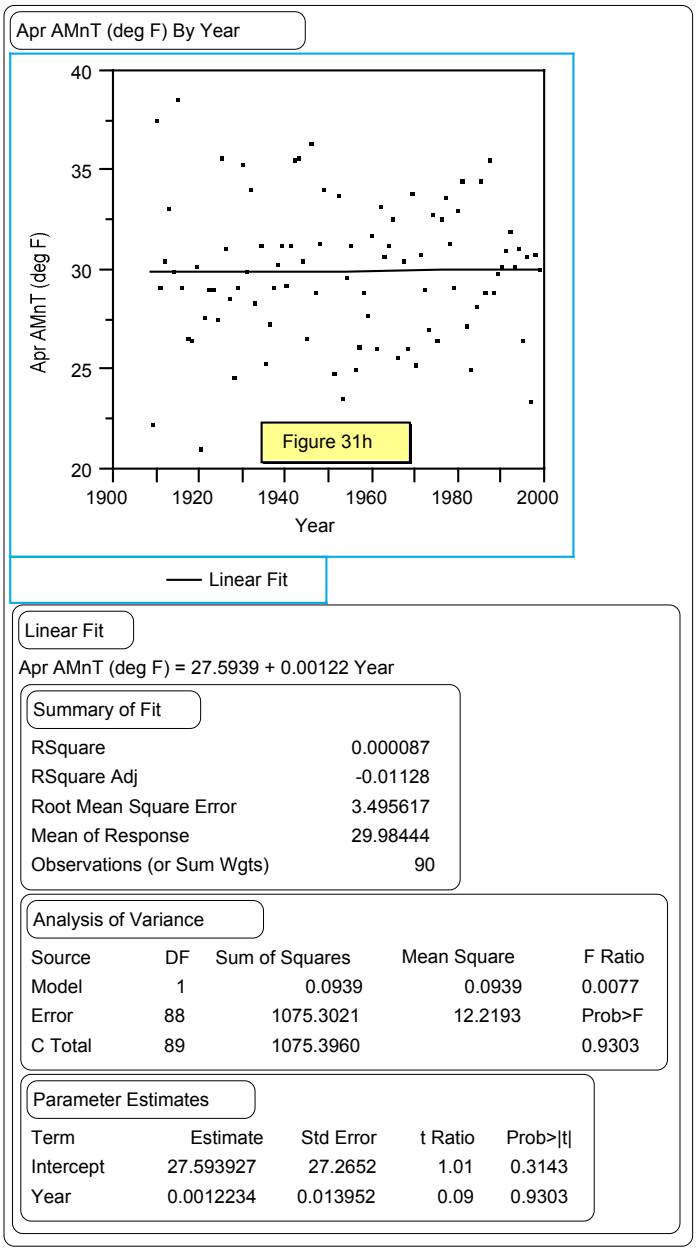
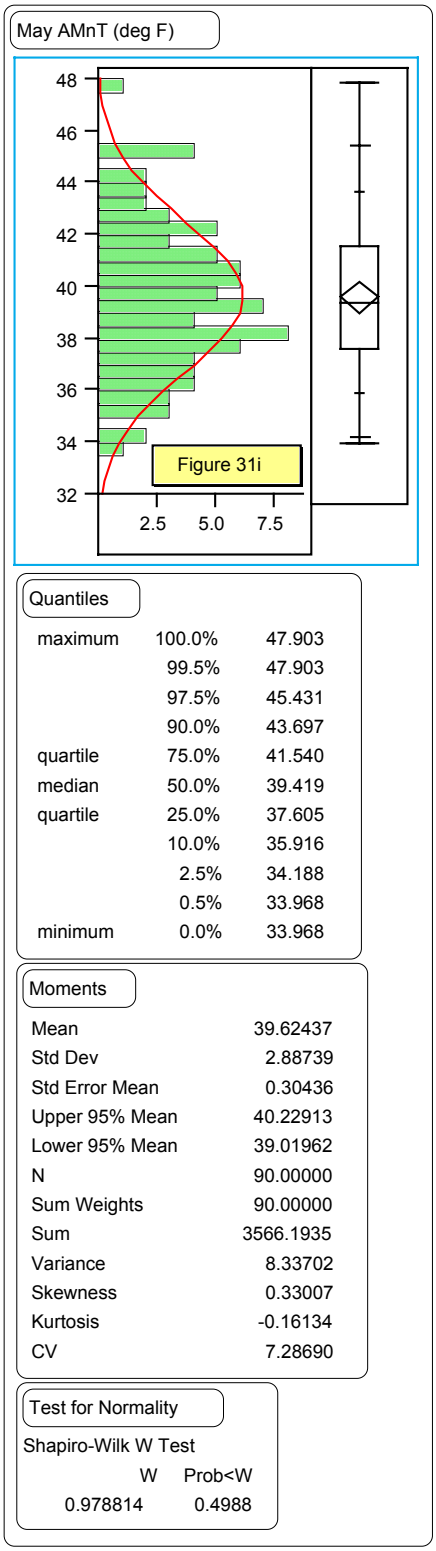


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for April (Figure 31g) and distribution through 1909-1999 (Figure 31h) for Lead, SD. On Figure 31g the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



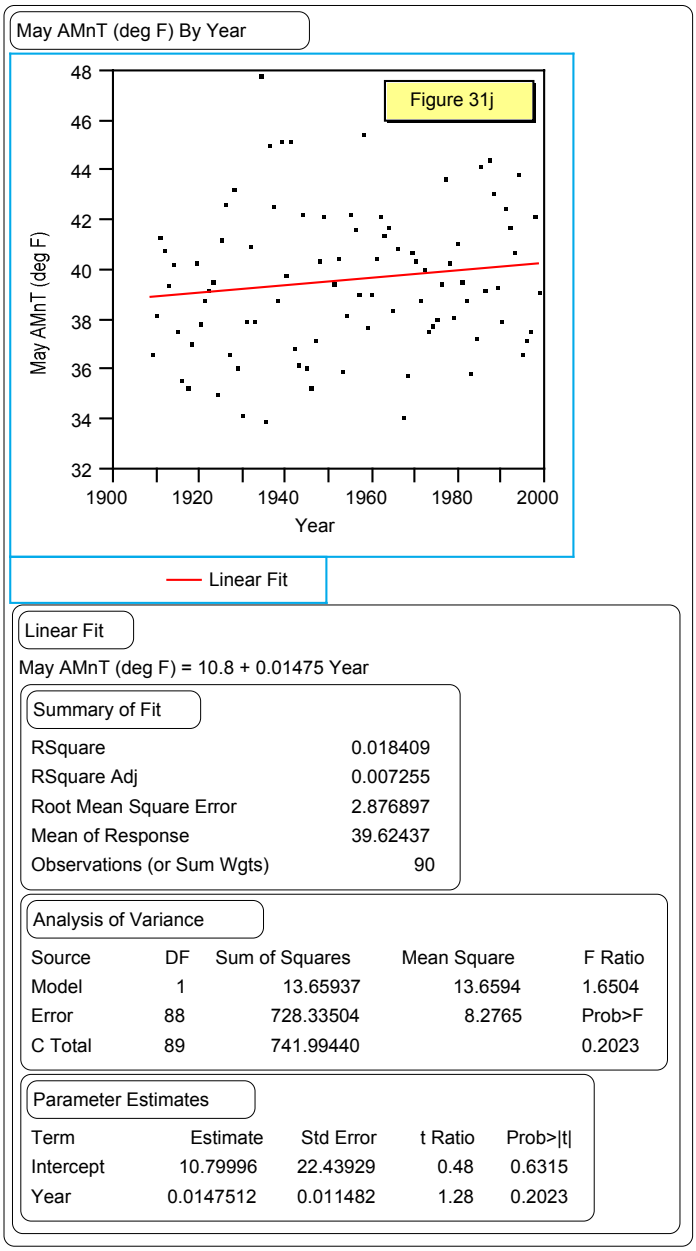


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for May (Figure 31i) and distribution through 1909-1999 (Figure 31j) for Lead, SD. On Figure 31i the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

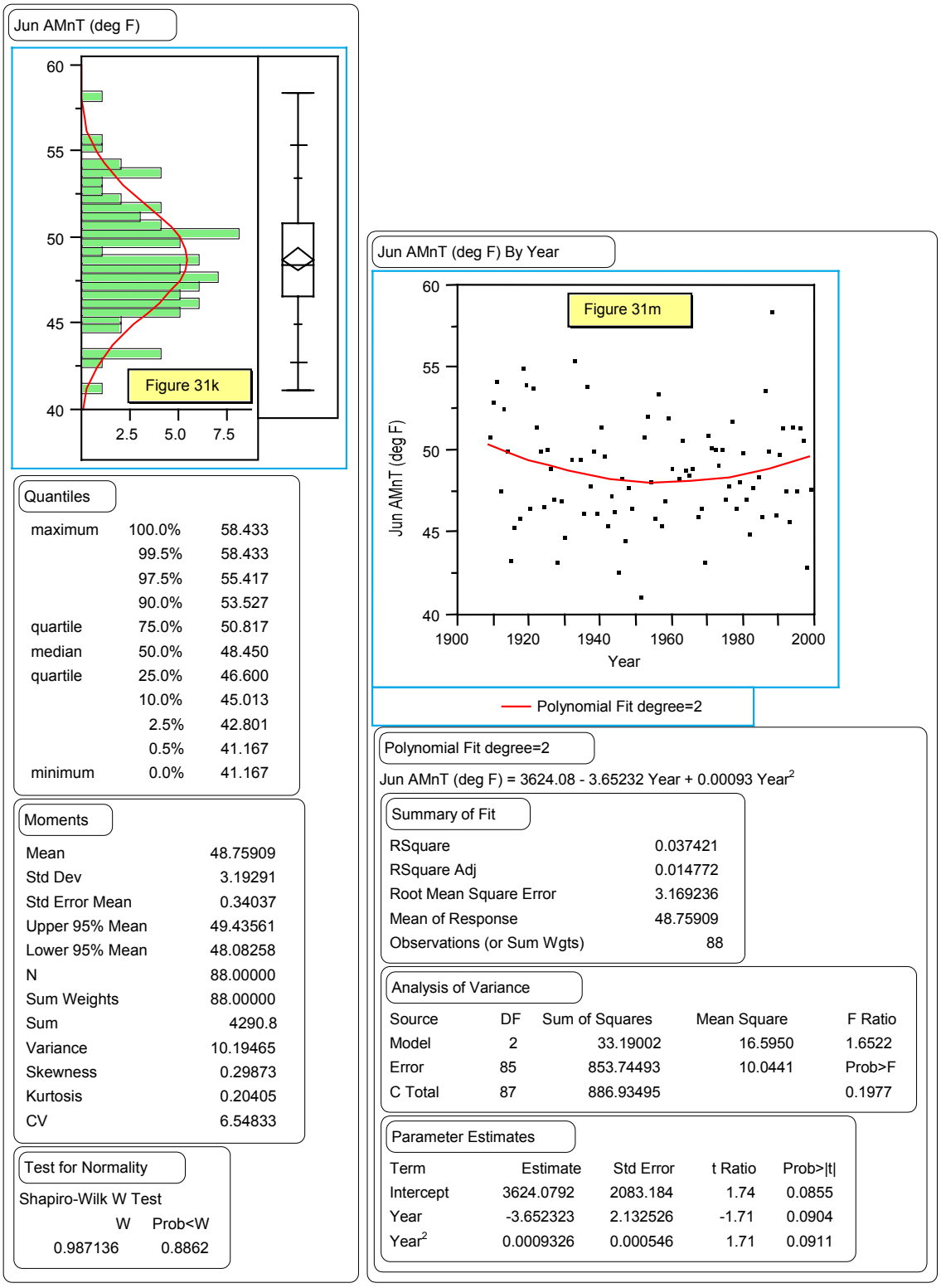
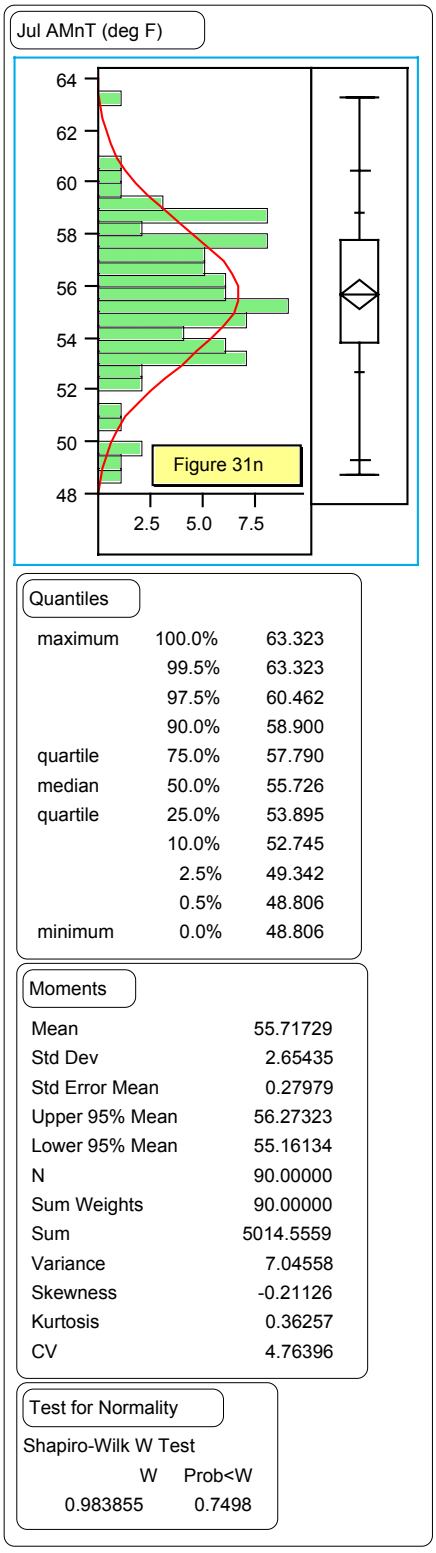


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for June (Figure 31k) and distribution through 1909-1999 (Figure 31m) for Lead, SD. On Figure 31k the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	63.323
	99.5%	63.323
	97.5%	60.462
	90.0%	58.900
quartile	75.0%	57.790
median	50.0%	55.726
quartile	25.0%	53.895
	10.0%	52.745
	2.5%	49.342
	0.5%	48.806
minimum	0.0%	48.806

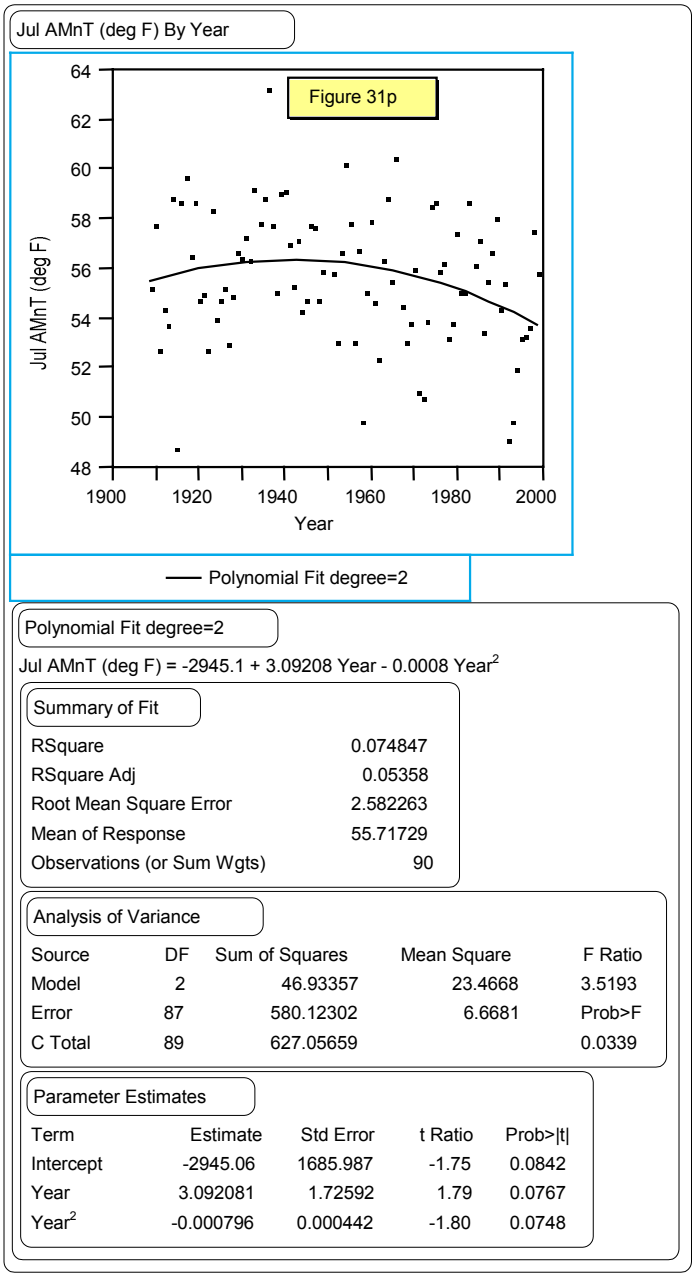
Moments

Mean	55.71729
Std Dev	2.65435
Std Error Mean	0.27979
Upper 95% Mean	56.27323
Lower 95% Mean	55.16134
N	90.00000
Sum Weights	90.00000
Sum	5014.5559
Variance	7.04558
Skewness	-0.21126
Kurtosis	0.36257
CV	4.76396

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.983855	0.7498



Polynomial Fit degree=2

Jul AMnT (deg F) = -2945.1 + 3.09208 Year - 0.0008 Year^2

Summary of Fit

RSquare	0.074847
RSquare Adj	0.05358
Root Mean Square Error	2.582263
Mean of Response	55.71729
Observations (or Sum Wgts)	90

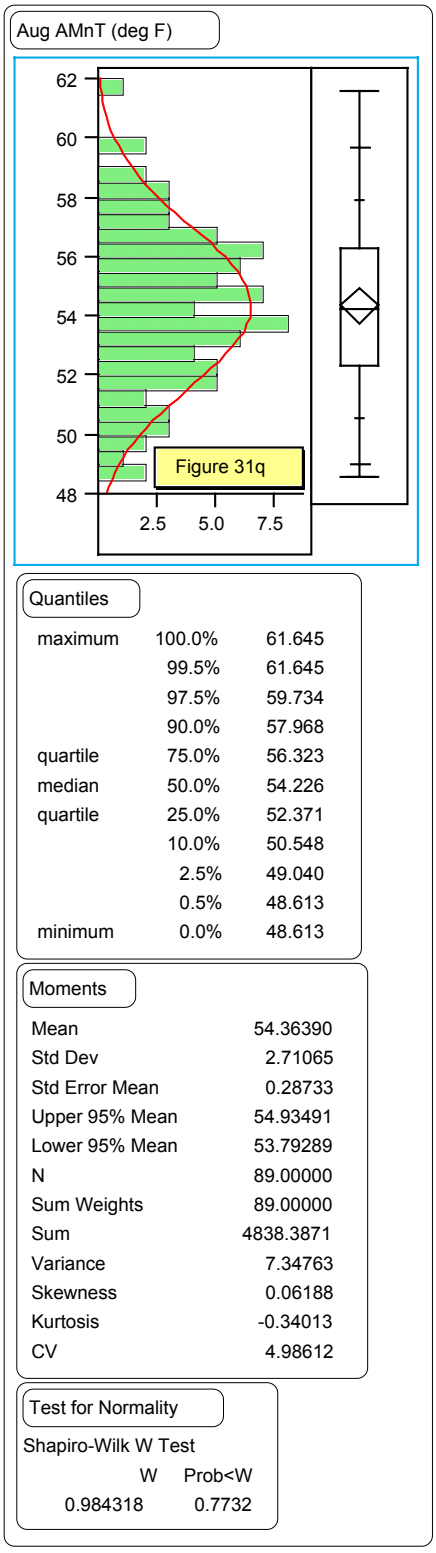
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	46.93357	23.4668	3.5193
Error	87	580.12302	6.6681	Prob>F
C Total	89	627.05659		0.0339

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-2945.06	1685.987	-1.75	0.0842
Year	3.092081	1.72592	1.79	0.0767
Year^2	-0.000796	0.000442	-1.80	0.0748

Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for July (Figure 31n) and distribution through 1909-1999 (Figure 31p) for Lead, SD. On Figure 31n the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	61.645
	99.5%	61.645
	97.5%	59.734
	90.0%	57.968
quartile	75.0%	56.323
median	50.0%	54.226
quartile	25.0%	52.371
	10.0%	50.548
	2.5%	49.040
	0.5%	48.613
minimum	0.0%	48.613

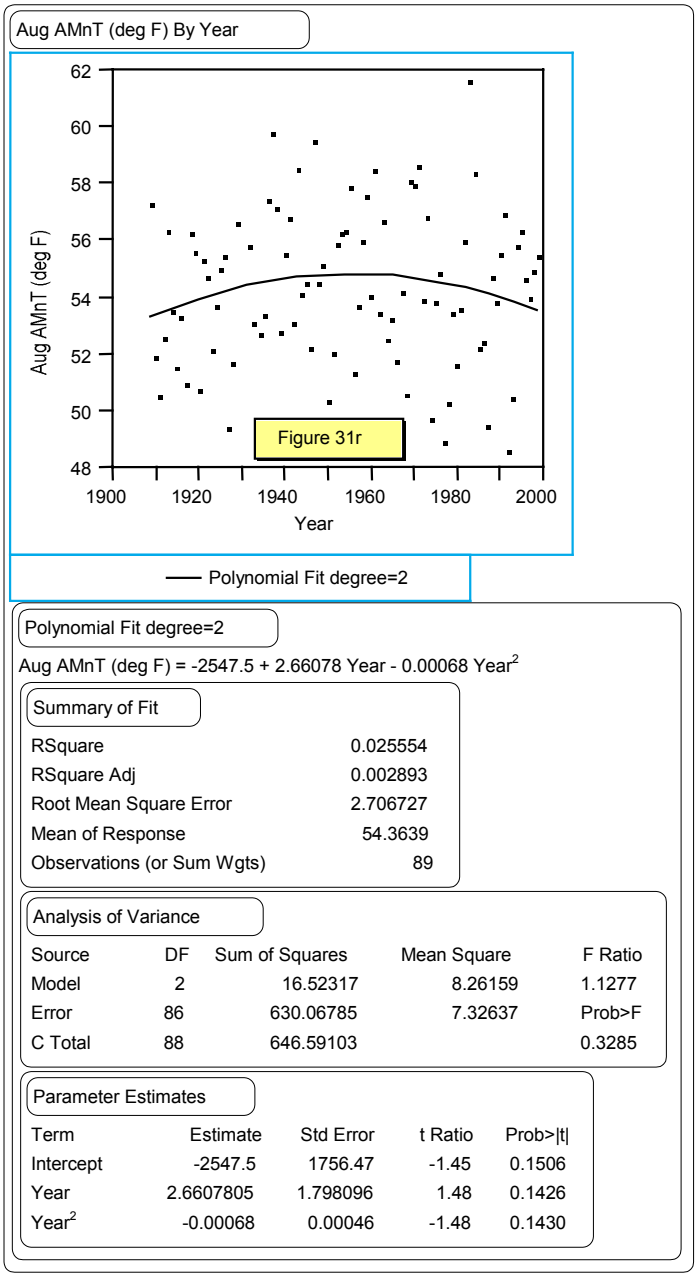
Moments

Mean	54.36390
Std Dev	2.71065
Std Error Mean	0.28733
Upper 95% Mean	54.93491
Lower 95% Mean	53.79289
N	89.00000
Sum Weights	89.00000
Sum	4838.3871
Variance	7.34763
Skewness	0.06188
Kurtosis	-0.34013
CV	4.98612

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.984318	0.7732



Polynomial Fit degree=2

Aug AMnT (deg F) = -2547.5 + 2.66078 Year - 0.00068 Year^2

Summary of Fit

RSquare	0.025554
RSquare Adj	0.002893
Root Mean Square Error	2.706727
Mean of Response	54.3639
Observations (or Sum Wgts)	89

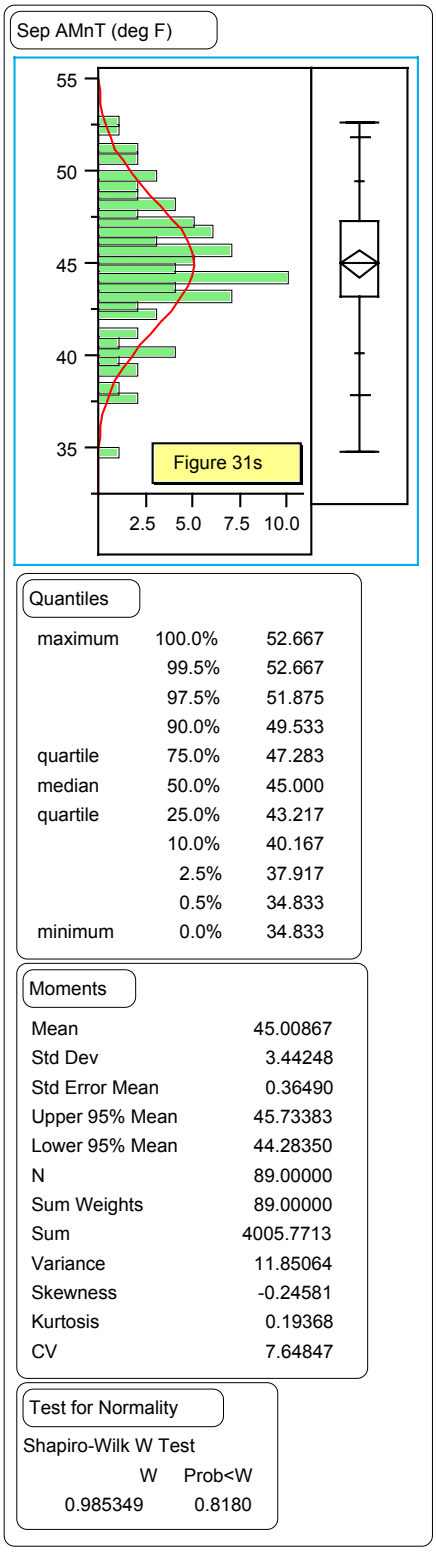
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	16.52317	8.26159	1.1277
Error	86	630.06785	7.32637	Prob>F
C Total	88	646.59103		0.3285

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-2547.5	1756.47	-1.45	0.1506
Year	2.6607805	1.798096	1.48	0.1426
Year^2	-0.00068	0.00046	-1.48	0.1430

Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for August (Figure 31q) and distribution through 1909-1999 (Figure 31r) for Lead, SD. On Figure 31q the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



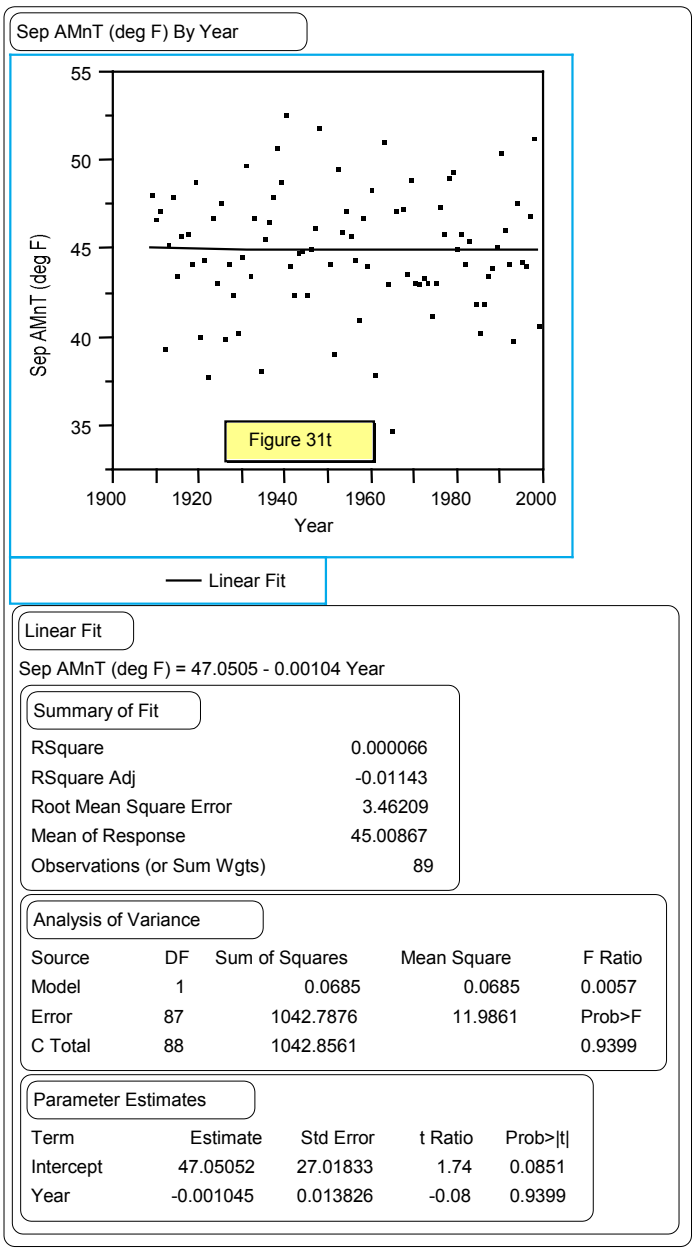
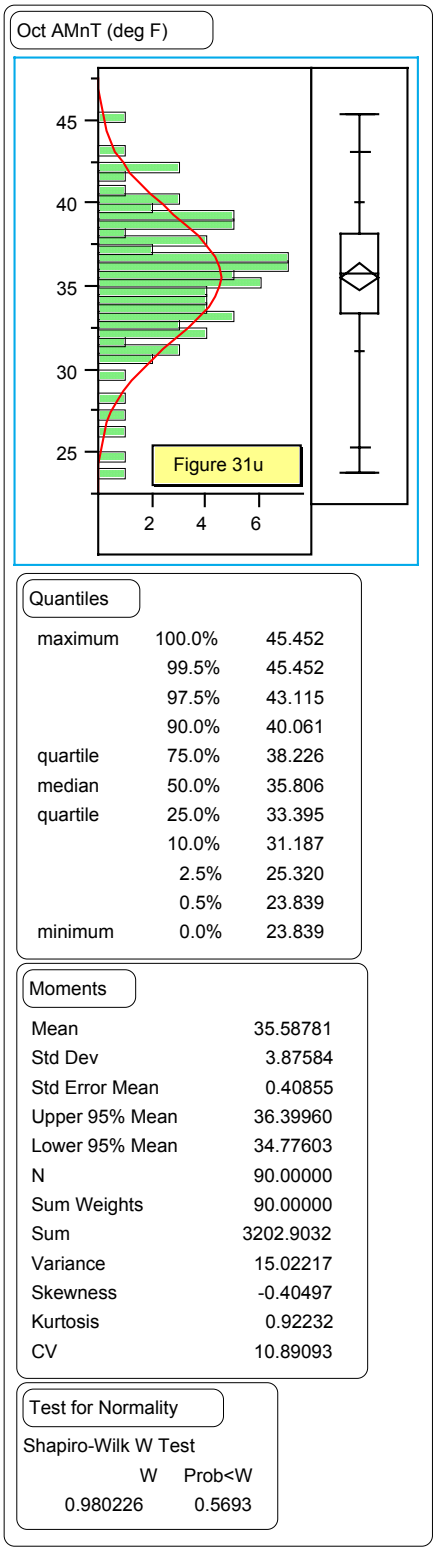


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for September (Figure 31s) and distribution through 1909-1999 (Figure 31t) for Lead, SD. On Figure 31s the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	45.452
	99.5%	45.452
	97.5%	43.115
	90.0%	40.061
quartile	75.0%	38.226
median	50.0%	35.806
quartile	25.0%	33.395
	10.0%	31.187
	2.5%	25.320
	0.5%	23.839
minimum	0.0%	23.839

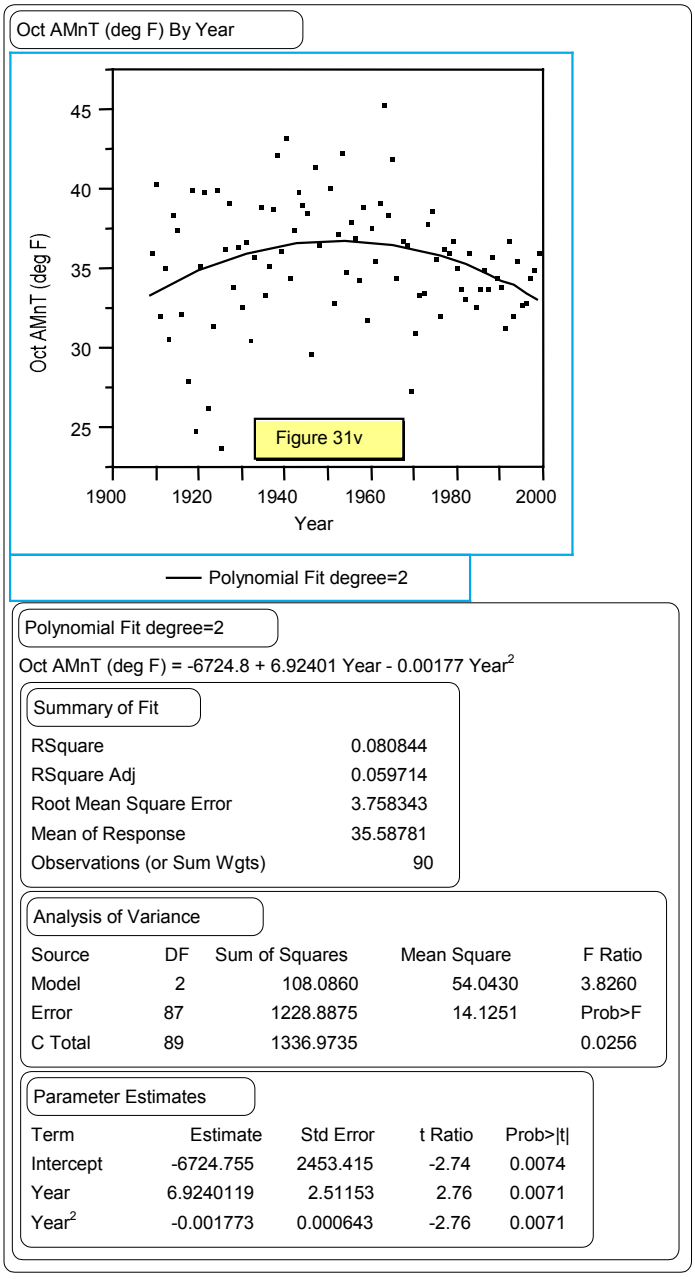
Moments

Mean	35.58781
Std Dev	3.87584
Std Error Mean	0.40855
Upper 95% Mean	36.39960
Lower 95% Mean	34.77603
N	90.00000
Sum Weights	90.00000
Sum	3202.9032
Variance	15.02217
Skewness	-0.40497
Kurtosis	0.92232
CV	10.89093

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.980226	0.5693



Polynomial Fit degree=2

Oct AMnT (deg F) = -6724.8 + 6.92401 Year - 0.00177 Year^2

Summary of Fit

RSquare	0.080844
RSquare Adj	0.059714
Root Mean Square Error	3.758343
Mean of Response	35.58781
Observations (or Sum Wgts)	90

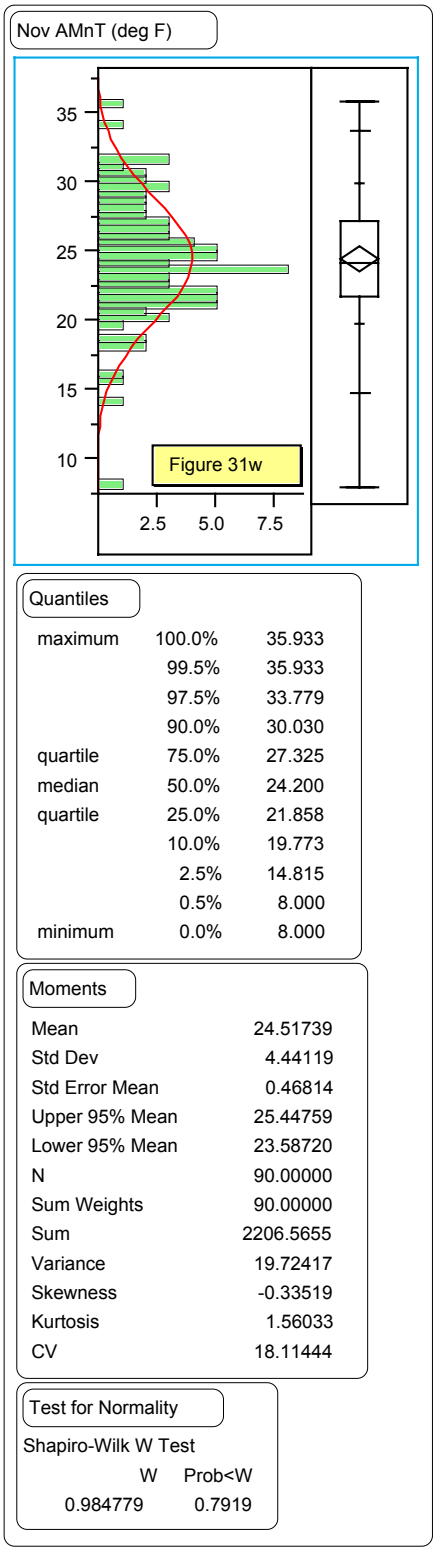
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	108.0860	54.0430	3.8260
Error	87	1228.8875	14.1251	Prob>F
C Total	89	1336.9735		0.0256

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-6724.755	2453.415	-2.74	0.0074
Year	6.9240119	2.51153	2.76	0.0071
Year^2	-0.001773	0.000643	-2.76	0.0071

Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for October (Figure 31u) and distribution through 1909-1999 (Figure 31v) for Lead, SD. On Figure 31u the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



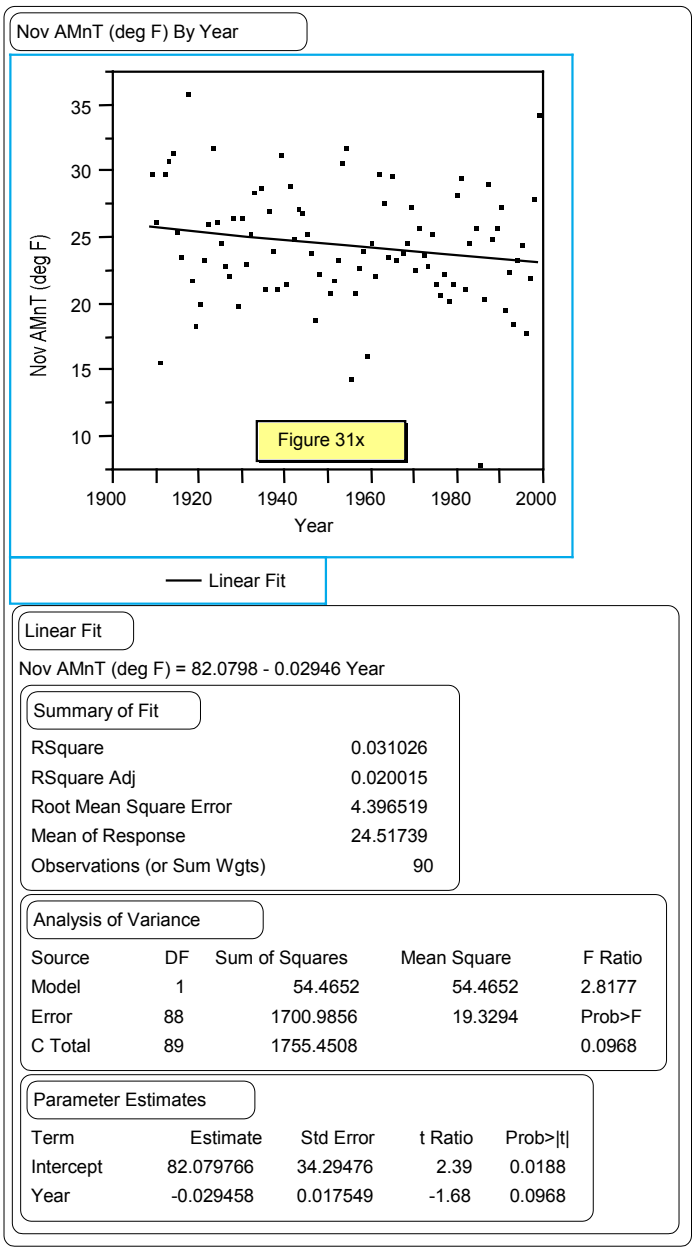
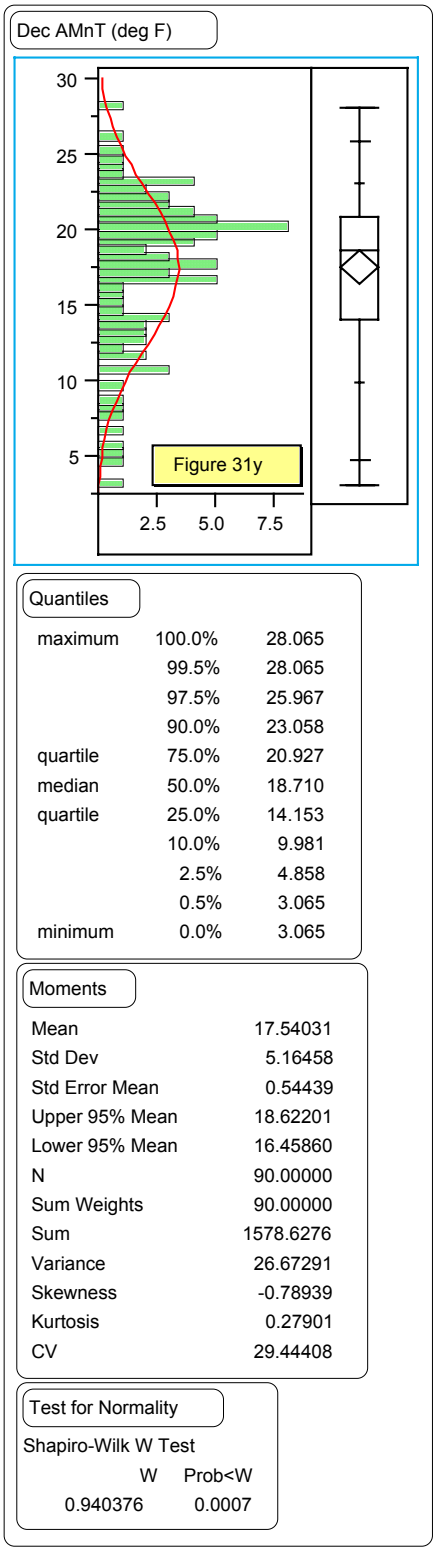


Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for November (Figure 31w) and distribution through 1909-1999 (Figure 31x) for Lead, SD. On Figure 31w the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	28.065
	99.5%	28.065
	97.5%	25.967
	90.0%	23.058
quartile	75.0%	20.927
median	50.0%	18.710
quartile	25.0%	14.153
	10.0%	9.981
	2.5%	4.858
	0.5%	3.065
minimum	0.0%	3.065

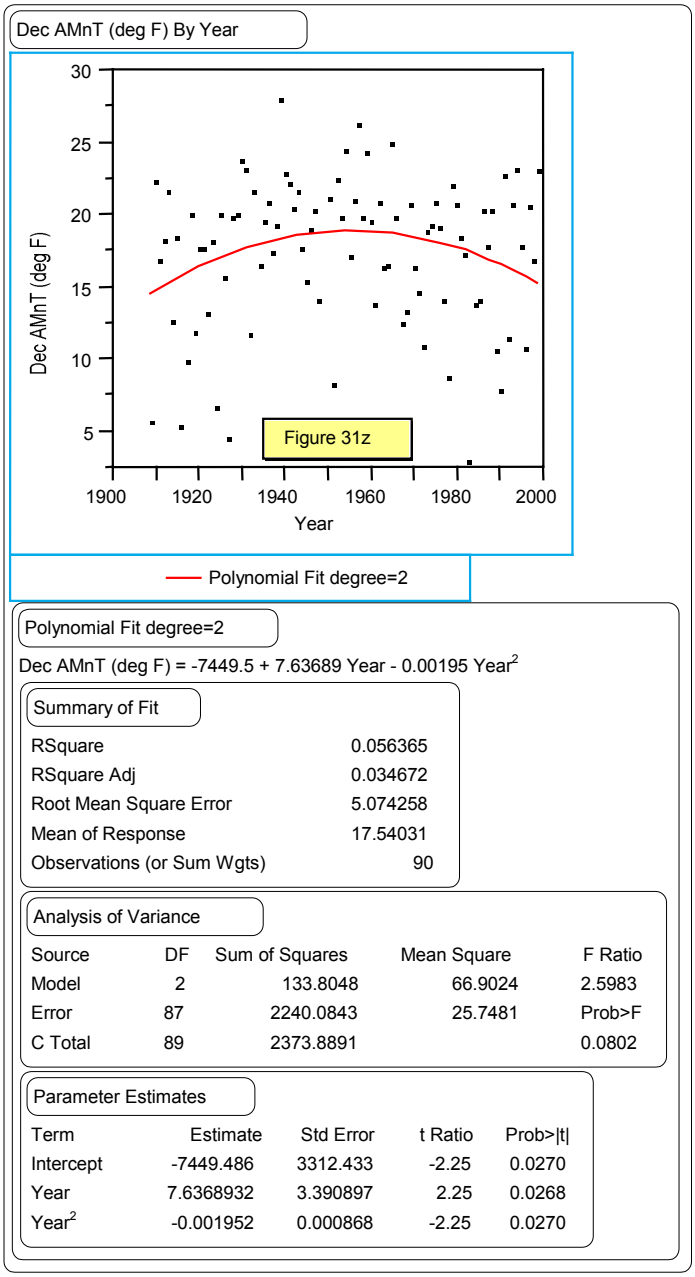
Moments

Mean	17.54031
Std Dev	5.16458
Std Error Mean	0.54439
Upper 95% Mean	18.62201
Lower 95% Mean	16.45860
N	90.00000
Sum Weights	90.00000
Sum	1578.6276
Variance	26.67291
Skewness	-0.78939
Kurtosis	0.27901
CV	29.44408

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.940376	0.0007



Polynomial Fit degree=2

Dec AMnT (deg F) = -7449.5 + 7.63689 Year - 0.00195 Year^2

Summary of Fit

RSquare	0.056365
RSquare Adj	0.034672
Root Mean Square Error	5.074258
Mean of Response	17.54031
Observations (or Sum Wgts)	90

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	133.8048	66.9024	2.5983
Error	87	2240.0843	25.7481	Prob>F
C Total	89	2373.8891		0.0802

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-7449.486	3312.433	-2.25	0.0270
Year	7.6368932	3.390897	2.25	0.0268
Year^2	-0.001952	0.000868	-2.25	0.0270

Figure 31. Monthly average minimum temperature (^{O}F), AMnT, histogram for December (Figure 31y) and distribution through 1909-1999 (Figure 31z) for Lead, SD. On Figure 31y the Y axis = average monthly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

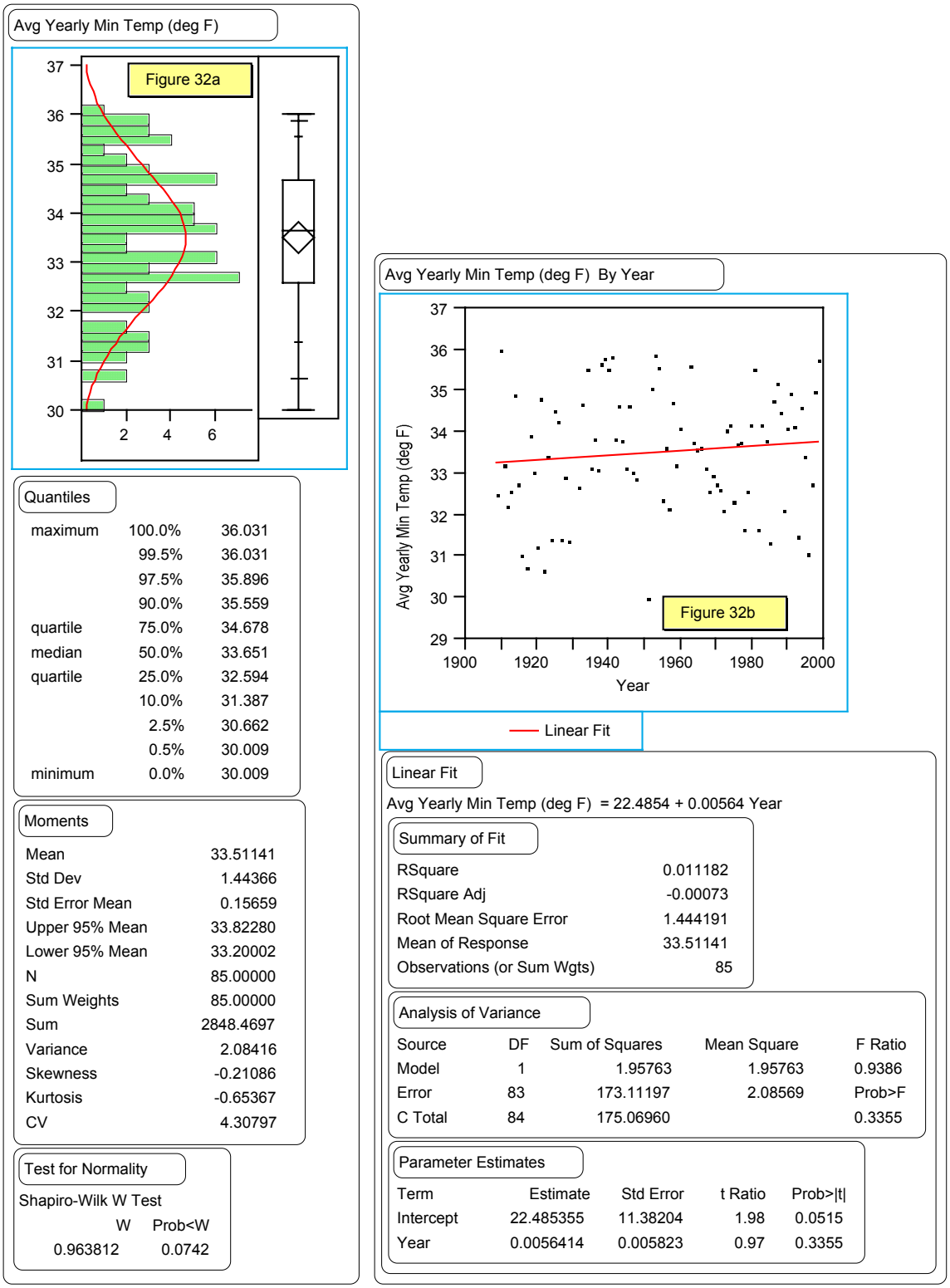


Figure 32. Annual average minimum temperature (^{O}F) histogram (Figure 32a) and as function of year (Figure 32b) for Lead, SD (1909-1999). On Figure 32a the Y axis = average yearly minimum temperature (^{O}F) and the X axis = the number of years (frequency).

Average Monthly Temperatures (missing data caused differences in n values)
The distribution (histograms) of the monthly average temperatures (AMT) for each month of the year (Figures 33a, 33c, 33e, 33g, 33i, 33k, 33n, 33q, 33s, 33u, 33w, and 33y) and as a function of year (Figures 33b, 33d, 33f, 33h, 33j, 33m, 33p, 33r, 33t, 33v, 33x, and 33z) at Lead, SD (1909-1999) show interesting trends. Most months have normal distributions of AMT while January and December AMT (Figures 33a and 33y, respectively) do not have normal distributions (p of W ≤0.05). The highest AMT was 77.2 ^{O}F during July 1936 and the lowest recorded AMT was 6.4 ^{O}F during February 1936. Eight months had no significant trend when AMT and year were compared. March had a significant curvilinear trend (Figure 33f) with the low point during the 1950s. July and August had significant curvilinear trends (Figures 33p and 33r, respectively) opposite from the trend found in March. The high points for the July and August trends were during the 1950s.

The distribution of Lead, SD average annual temperatures for 1909-1999 is normal (Figures 34a and 34b). The yearly average temperatures did not significantly change during the study period.

TEMPERATURE – Daily Information

For plant growth and survival the temperature extremes, both highs and lows are very important in the Lead, SD area. As a result, the daily temperature record was studied.

Number of days/yr - cold extremes
The distribution (histograms) of the number of days/yr at critical cold temperature values of <40, <35, <30, <25, <20, <10, <0, <-10, and <-20 ^{O}F (Figures 35a, 35c, 35e, 35g, 35i, 35k, 35n, 35q, and 35s, respectively) and as a function of year (Figures 35b, 35d, 35f, 35h, 35j, 35m, 35p, 35r, and 35t, respectively) at Lead, SD (1909-1999) show interesting trends. Most cold temperature histograms had normal distributions of the number of days/yr at critical ranges while the <0, <-10, and <-20 ^{O}F (Figures 35n, 35q, and 35s, respectively) did not have normal distributions (p of W ≤0.05) during 1909-1999. The critical cold temperature ranges of <40, <35, <30, and <25 ^{O}F had no significant trend with year (Figures 35b, 35d, 35f, and 35h, respectively). The <20, <10, <0, and <-20 ^{O}F temperature ranges had significant negative linear trends with year (Figures 35j, 35m, 35p, and 35t, respectively). The <-10 temperature range had a significant curvilinear trend with the low point during the 1970s (Figure 35r). The average number of cold critical temperature days for all temperature levels per month and yearly totals are shown in Table 7.

Number of days/yr - warm extremes
The distribution (histograms) of the number of days/yr at critical warm temperature values of >65, >70, >75, >80, >85, and >90 ^{O}F (Figures 36a, 36c, 36e, 36g, 36i, and 36k) and as a function of year (Figures 36b, 36d, 36f, 36h, 36j, and 36m) at Lead, SD for 1909-1999 show interesting trends. Five warm critical temperature ranges (>65, >70, >75, >80 and >85 ^{O}F) had normal distributions of the number of days/yr (Figures 36a, 36c, 36e, 36g, and 36i, respectively) while >90 ^{O}F did not have a normal distributions (p of W ≤0.05) during 1909-1999 (Figure 36k). The critical warm temperature ranges all had curvilinear trends (bimodal) with low points during the 1950s. The >75, >80, >85, and >90 ^{O}F critical temperature ranges were significantly related to year (Figures 36f, 36h, 36j, and 36m, respectively). The average number of warm critical temperature days for all temperature levels per month and yearly totals are shown in Table 8.

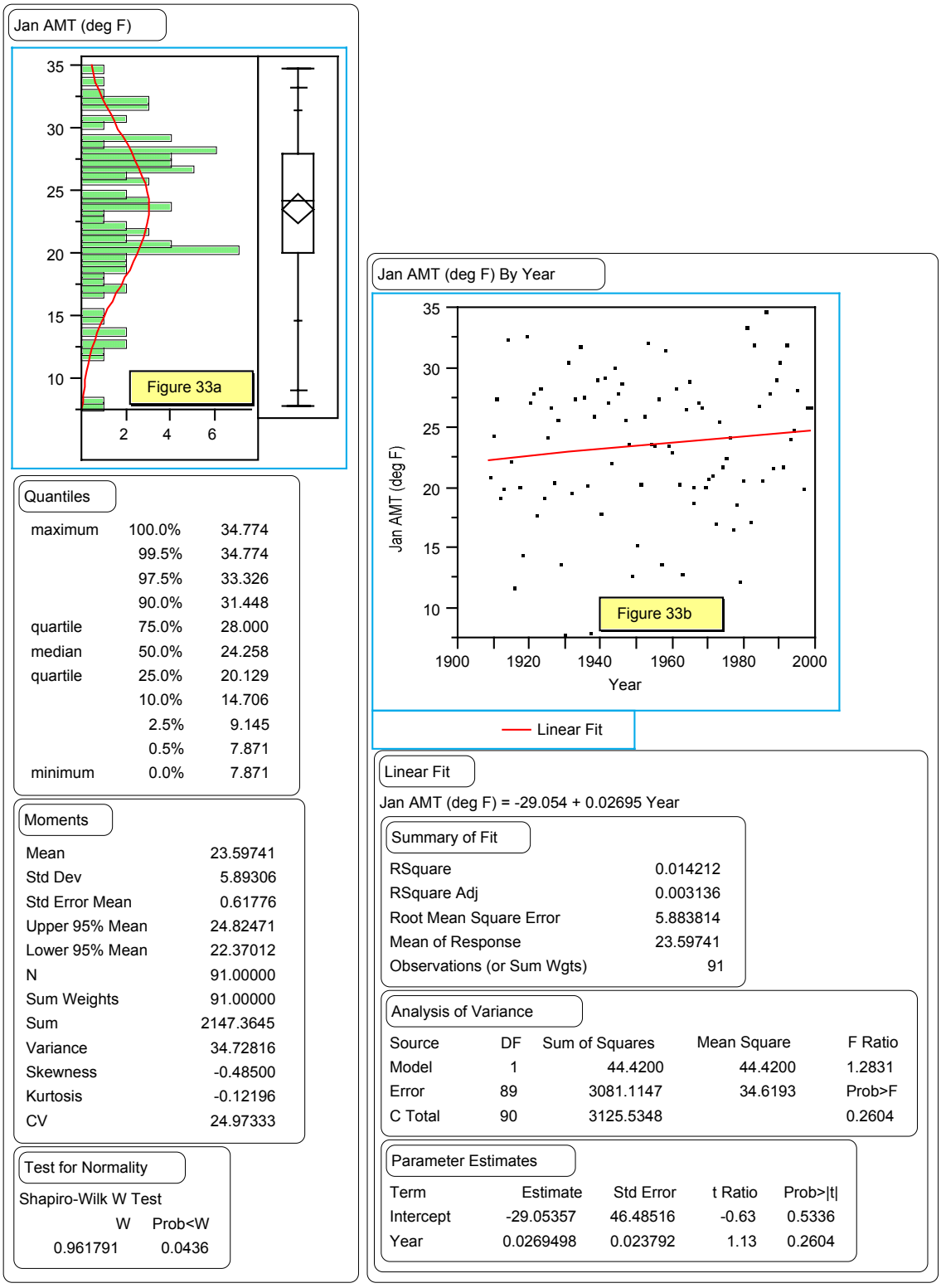


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for January (Figure 33a) and distribution through 1909-1999 (Figure 33b) for Lead, SD. On Figure 33a the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

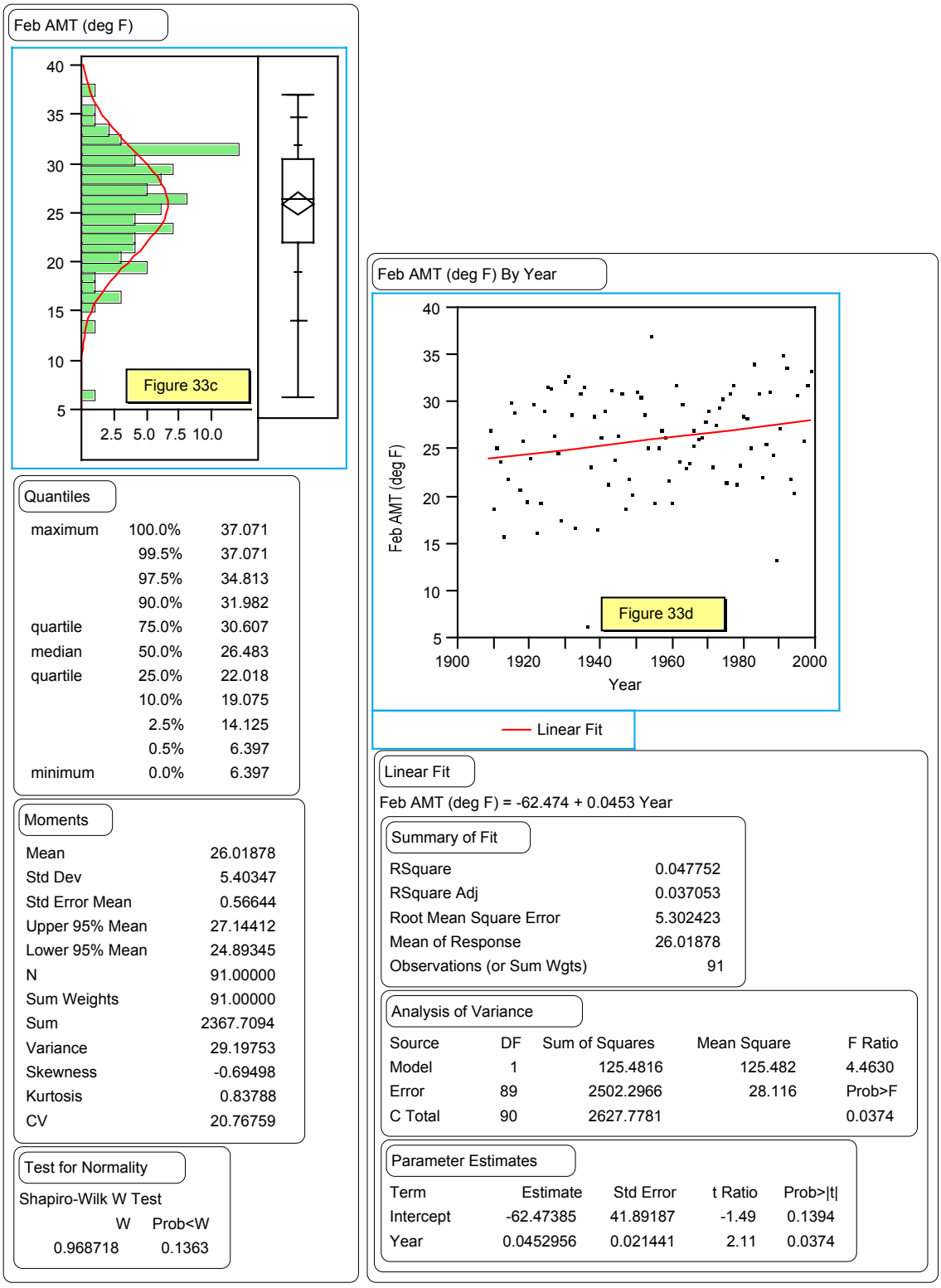
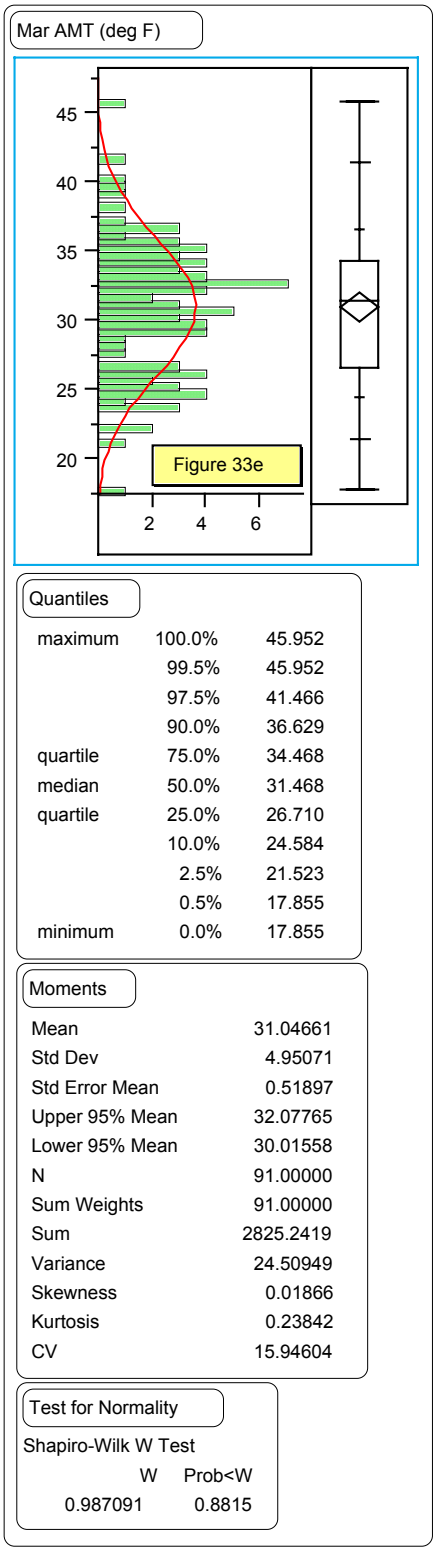


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for February (Figure 33c) and distribution through 1909-1999 (Figure 33d) for Lead, SD. On Figure 33c the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



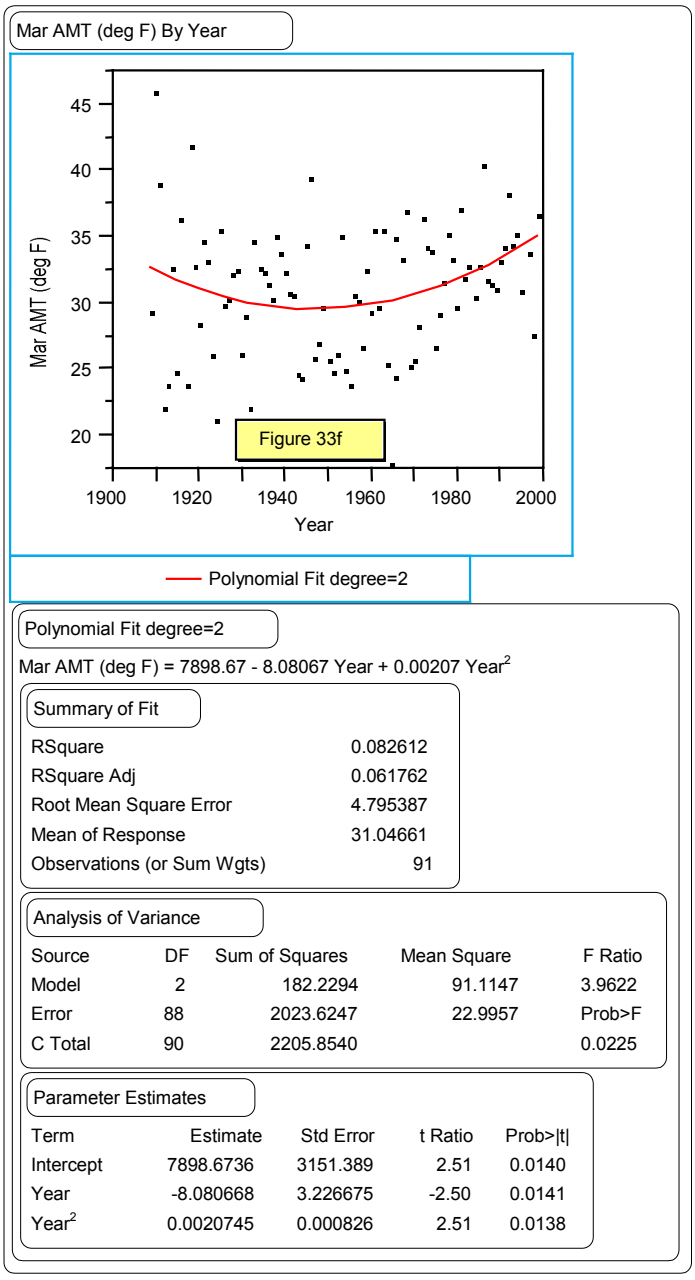


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for March (Figure 33e) and distribution through 1909-1999 (Figure 33f) for Lead, SD. On Figure 33e the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

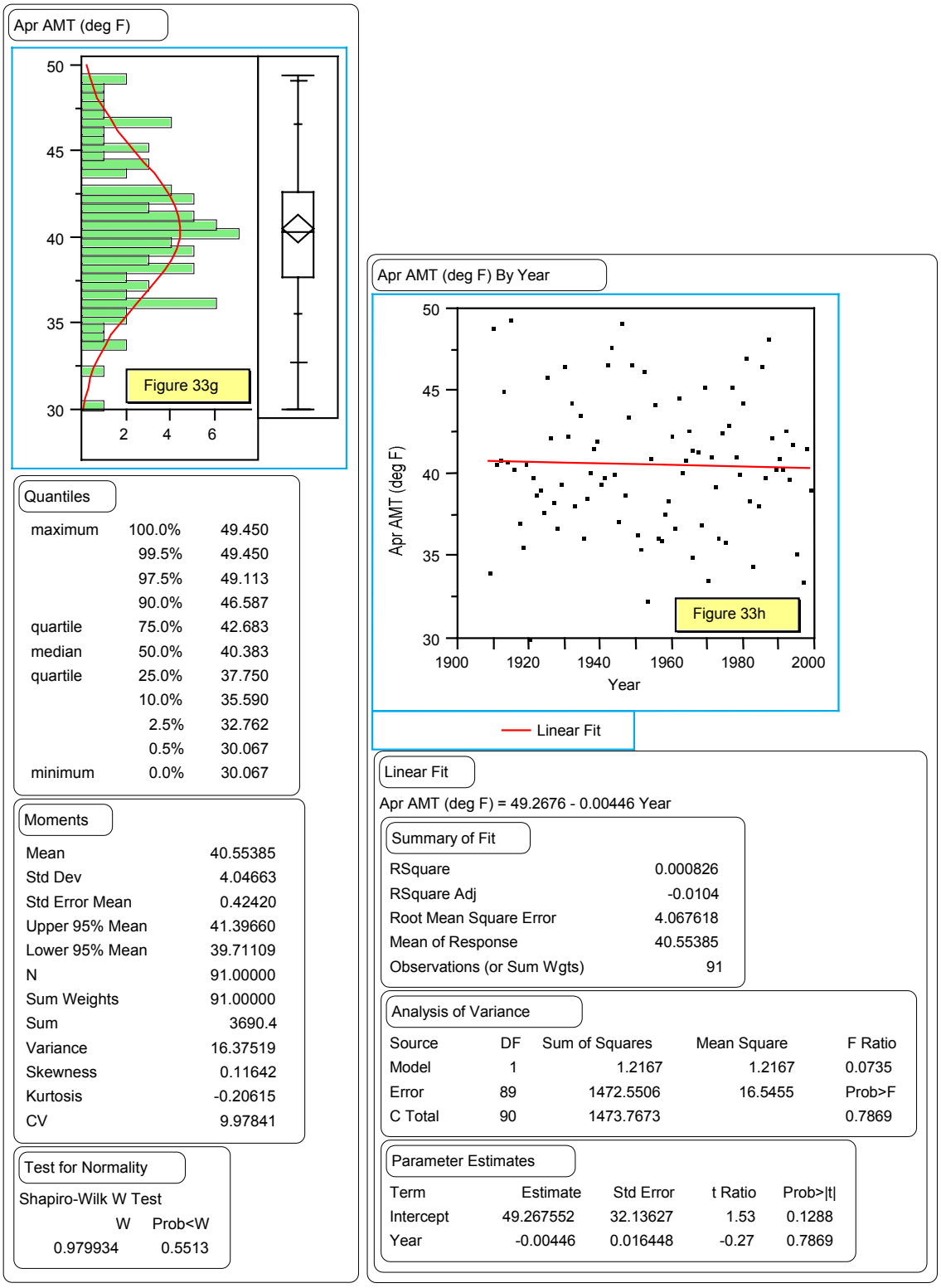
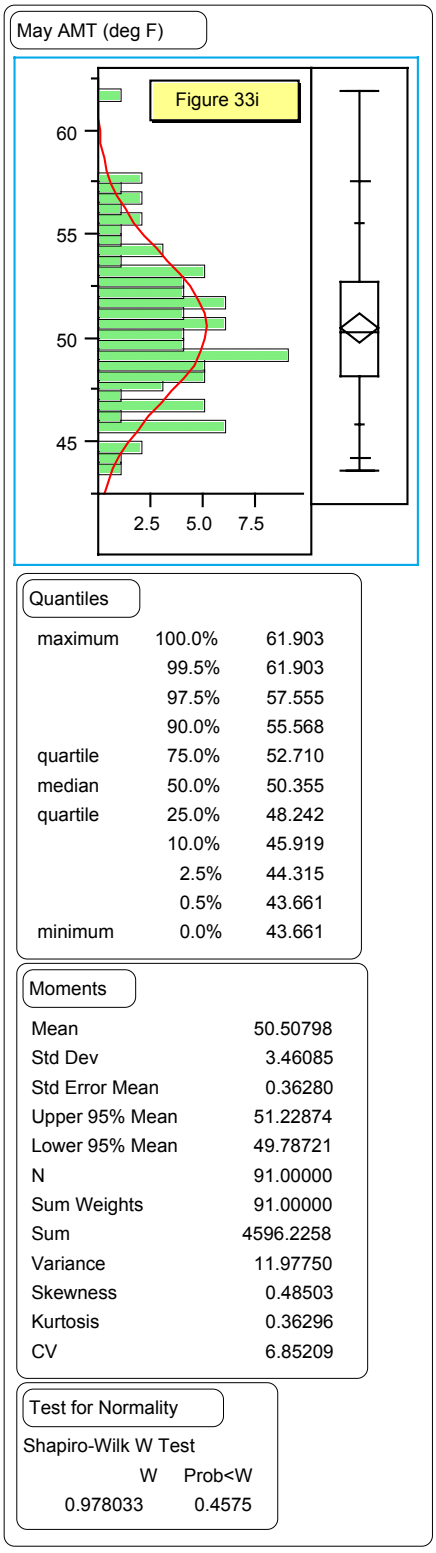


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for April (Figure 33g) and distribution through 1909-1999 (Figure 33h) for Lead, SD. On Figure 33g the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



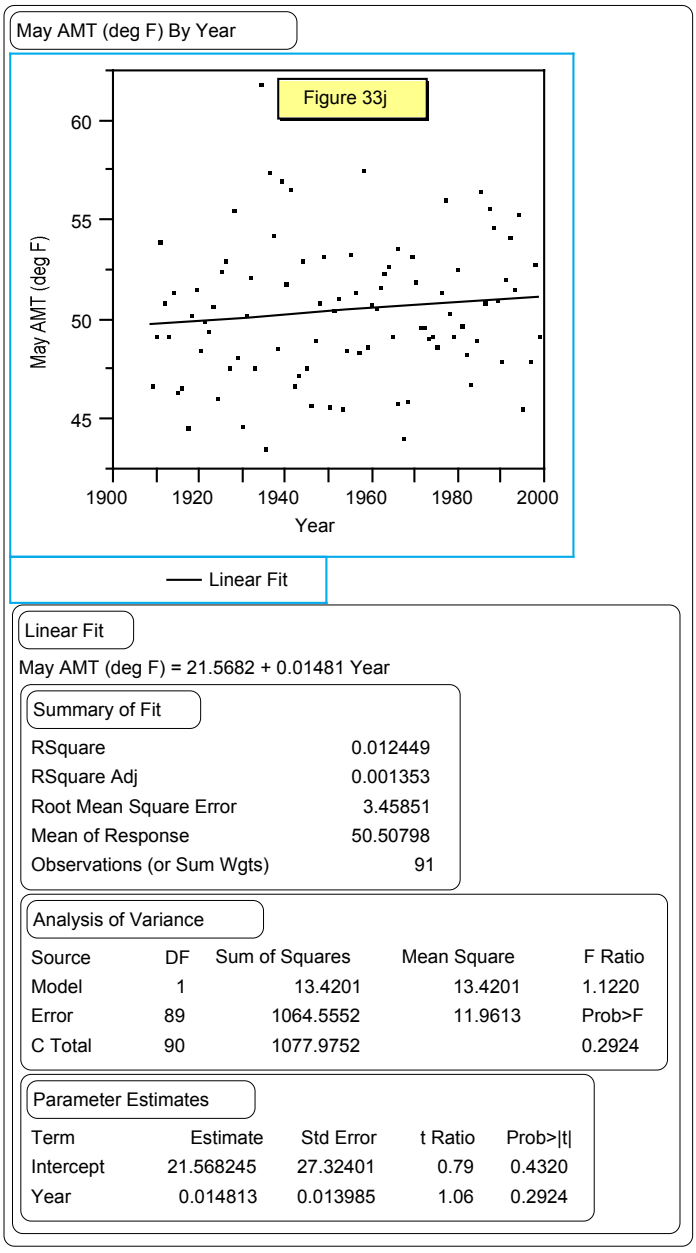
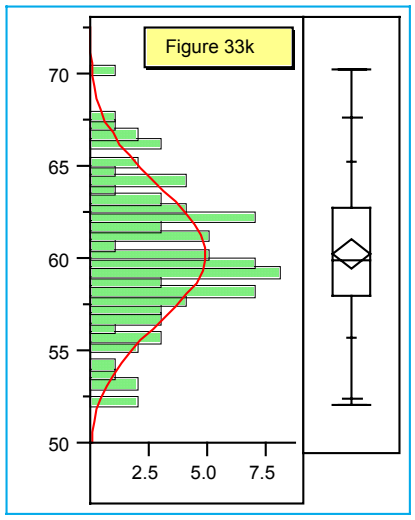


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for May (Figure 33i) and distribution through 1909-1999 (Figure 33j) for Lead, SD. On Figure 33i the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

Jun AMT (deg F)



Quantiles

maximum	100.0%	70.267
	99.5%	70.267
	97.5%	67.717
	90.0%	65.257
quartile	75.0%	62.833
median	50.0%	59.950
quartile	25.0%	58.033
	10.0%	55.743
	2.5%	52.483
	0.5%	52.083
minimum	0.0%	52.083

Moments

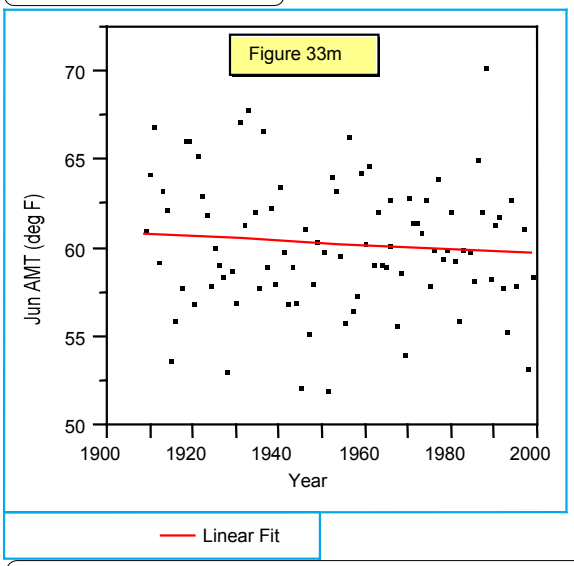
Mean	60.27875
Std Dev	3.66338
Std Error Mean	0.38403
Upper 95% Mean	61.04169
Lower 95% Mean	59.51582
N	91.00000
Sum Weights	91.00000
Sum	5485.3667
Variance	13.42033
Skewness	0.13225
Kurtosis	0.00973
CV	6.07739

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.984128	0.7605

Jun AMT (deg F) By Year



Linear Fit

Jun AMT (deg F) = 84.6784 - 0.01249 Year

Summary of Fit

RSquare	0.007898
RSquare Adj	-0.00325
Root Mean Square Error	3.669324
Mean of Response	60.27875
Observations (or Sum Wgts)	91

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	9.5397	9.5397	0.7085
Error	89	1198.2904	13.4639	Prob>F
C Total	90	1207.8300		0.4022

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	84.678423	28.98955	2.92	0.0044
Year	-0.012489	0.014837	-0.84	0.4022

Figure 33. Monthly average temperature (^{O}F), AMT, histogram for June (Figure 33k) and distribution through 1909-1999 (Figure 33m) for Lead, SD. On Figure 33k the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

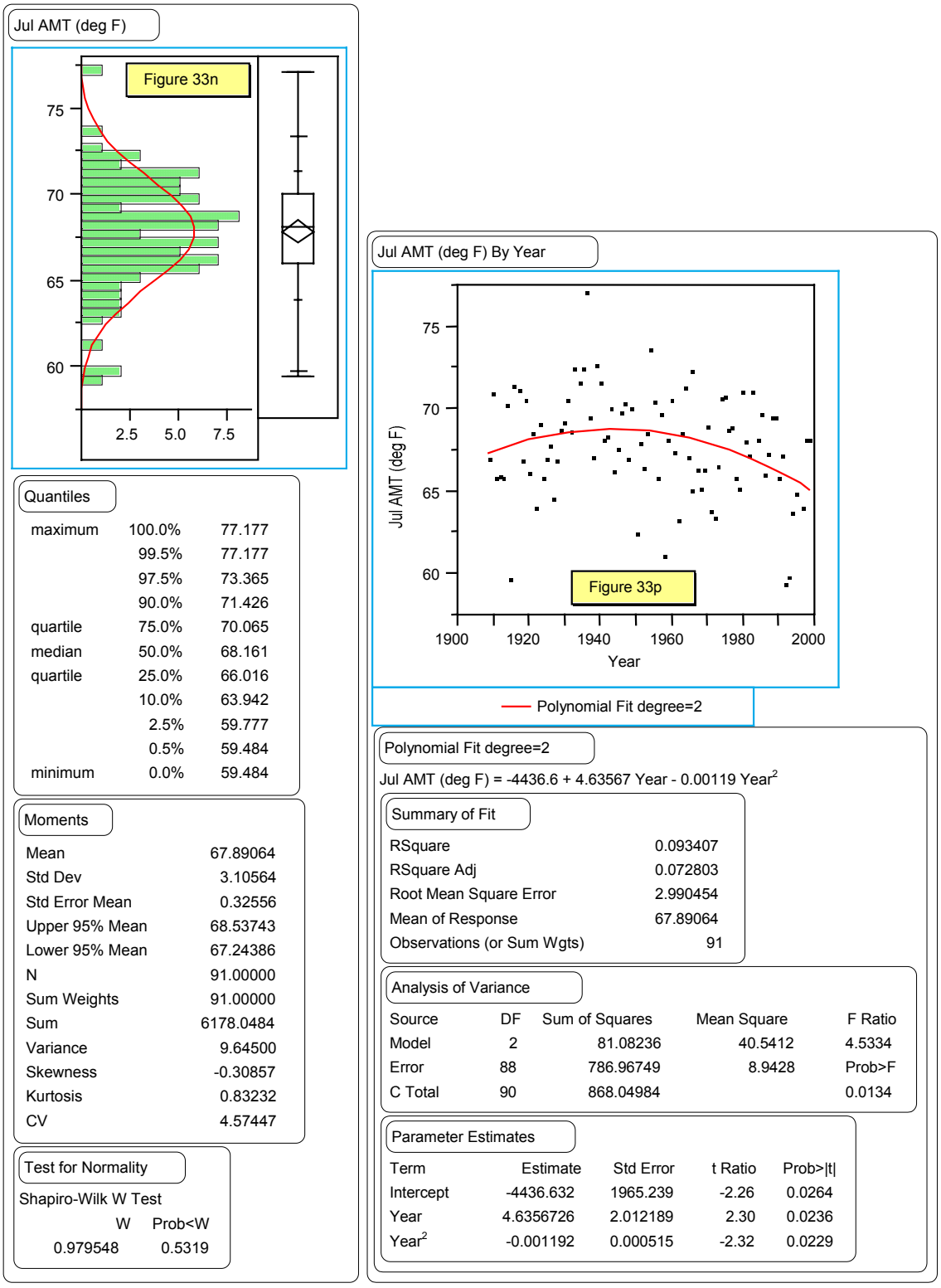
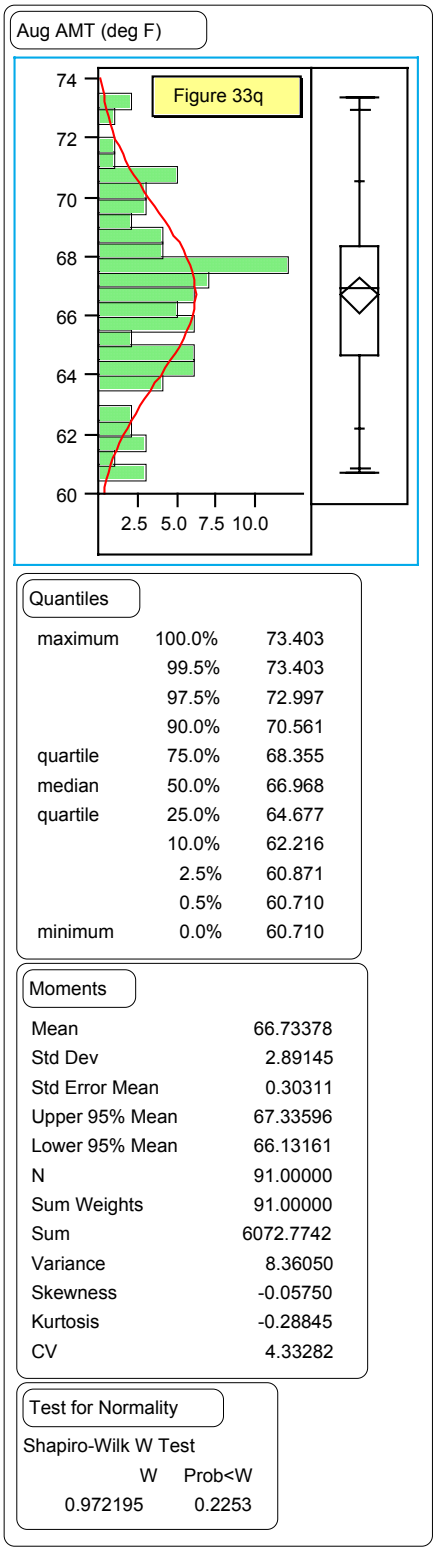


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for July (Figure 33n) and distribution through 1909-1999 (Figure 33p) for Lead, SD. On Figure 33n the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



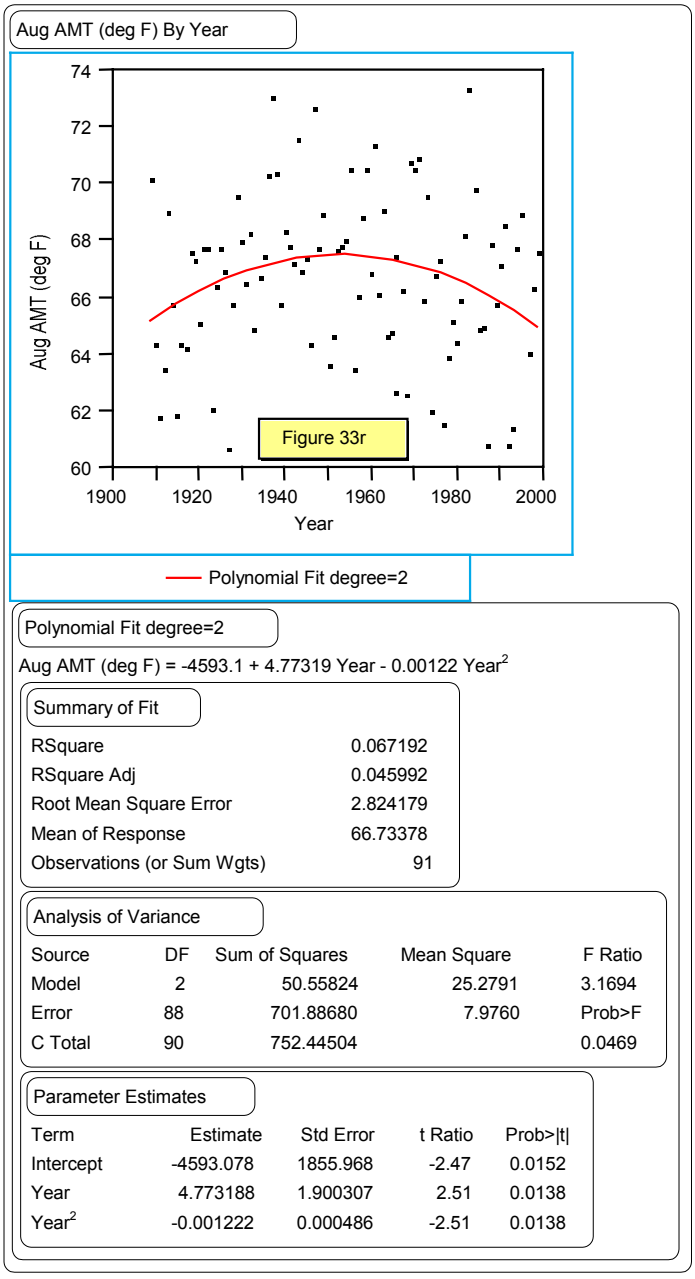
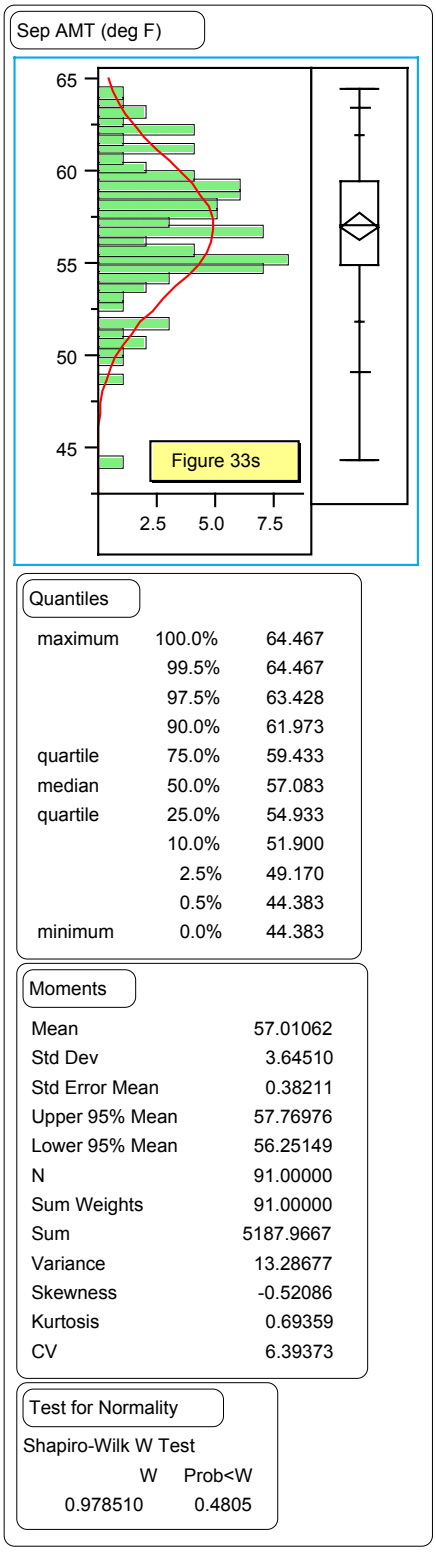


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for August (Figure 33q) and distribution through 1909-1999 (Figure 33r) for Lead, SD. On Figure 33q the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	64.467
	99.5%	64.467
	97.5%	63.428
	90.0%	61.973
quartile	75.0%	59.433
median	50.0%	57.083
quartile	25.0%	54.933
	10.0%	51.900
	2.5%	49.170
	0.5%	44.383
minimum	0.0%	44.383

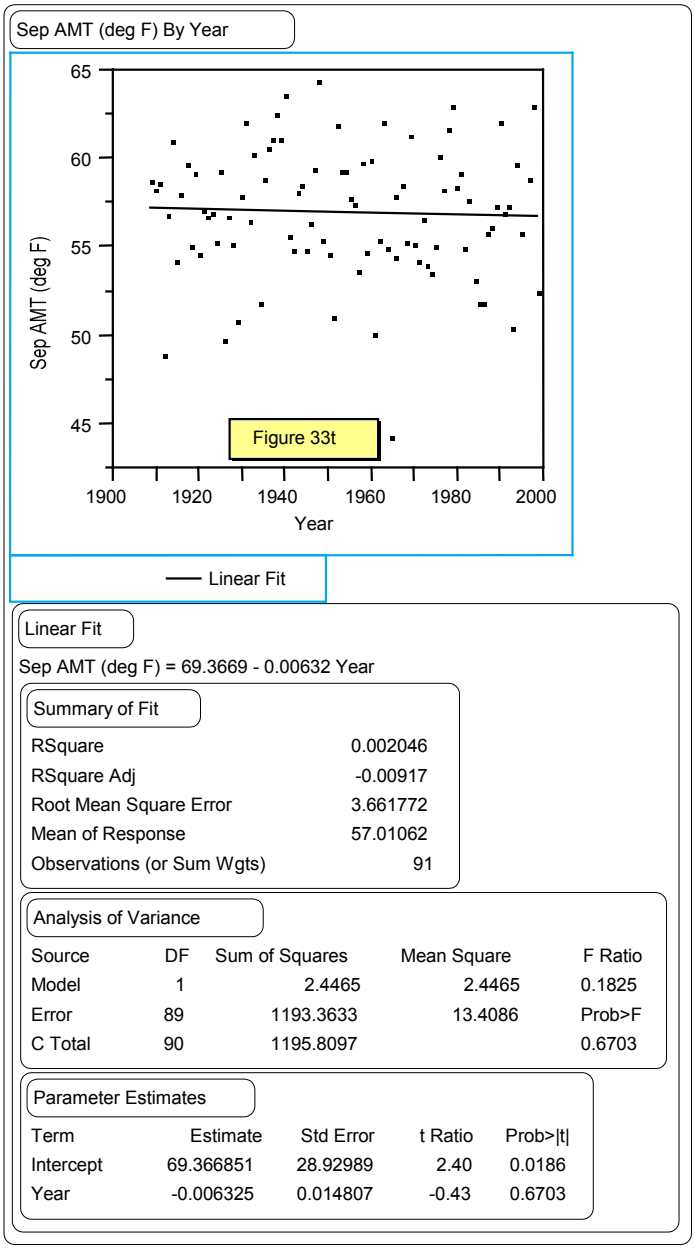
Moments

Mean	57.01062
Std Dev	3.64510
Std Error Mean	0.38211
Upper 95% Mean	57.76976
Lower 95% Mean	56.25149
N	91.00000
Sum Weights	91.00000
Sum	5187.9667
Variance	13.28677
Skewness	-0.52086
Kurtosis	0.69359
CV	6.39373

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.978510	0.4805



Linear Fit

Sep AMT (deg F) = 69.3669 - 0.00632 Year

Summary of Fit

RSquare	0.002046
RSquare Adj	-0.00917
Root Mean Square Error	3.661772
Mean of Response	57.01062
Observations (or Sum Wgts)	91

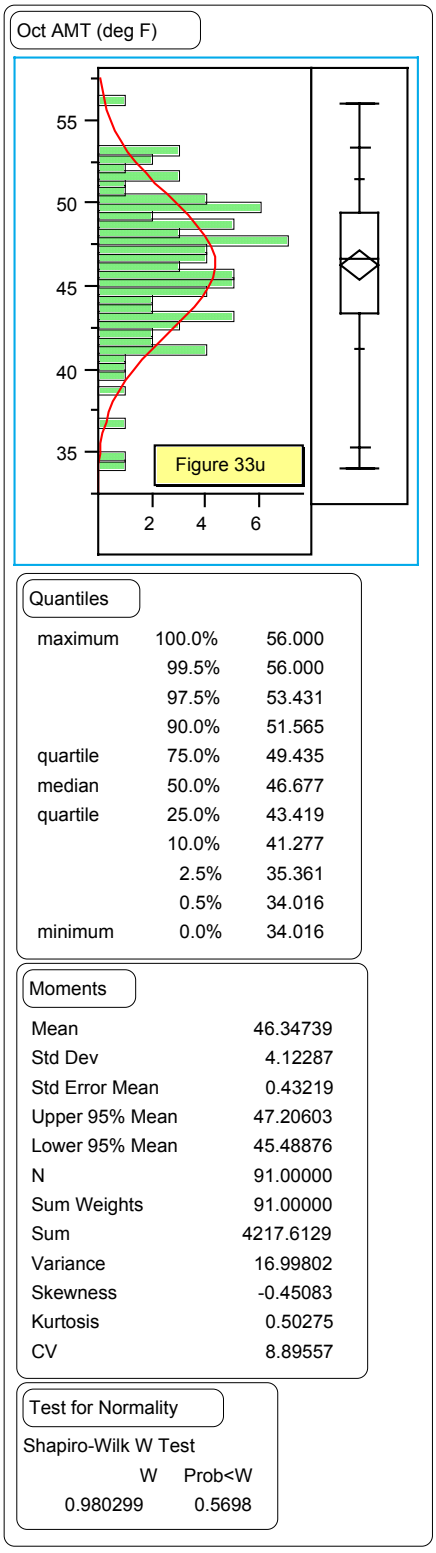
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	2.4465	2.4465	0.1825
Error	89	1193.3633	13.4086	Prob>F
C Total	90	1195.8097		0.6703

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	69.366851	28.92989	2.40	0.0186
Year	-0.006325	0.014807	-0.43	0.6703

Figure 33. Monthly average temperature (^{O}F), AMT, histogram for September (Figure 33s) and distribution through 1909-1999 (Figure 33t) for Lead, SD. On Figure 33s the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



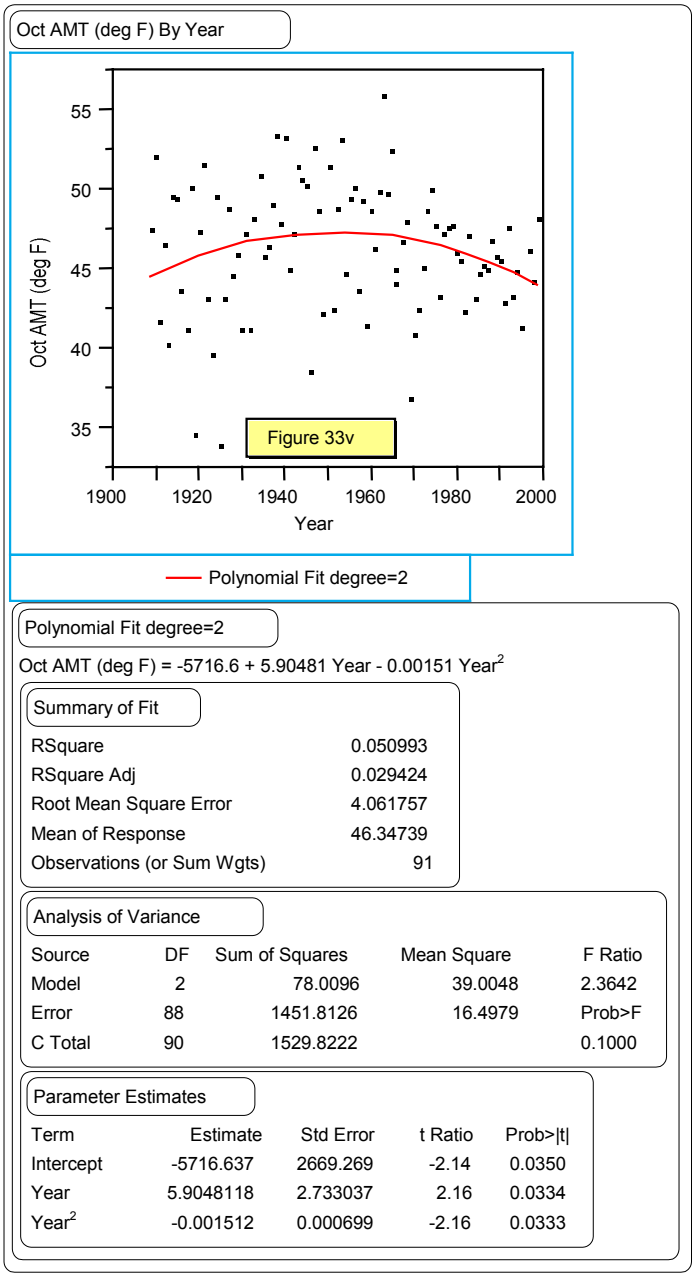
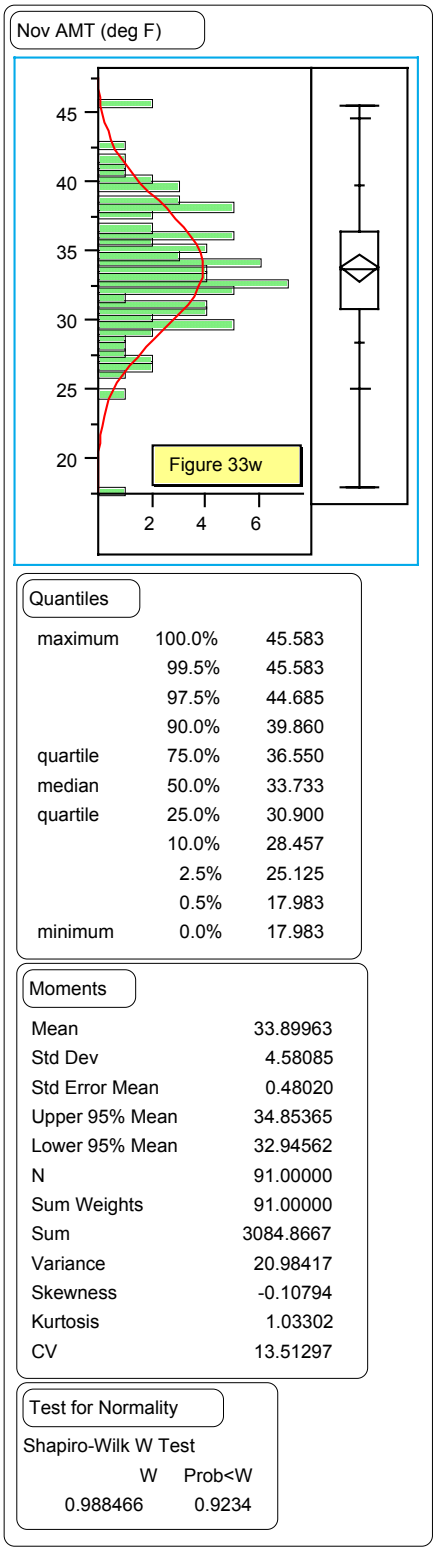


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for October (Figure 33u) and distribution through 1909-1999 (Figure 33v) for Lead, SD. On Figure 33u the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



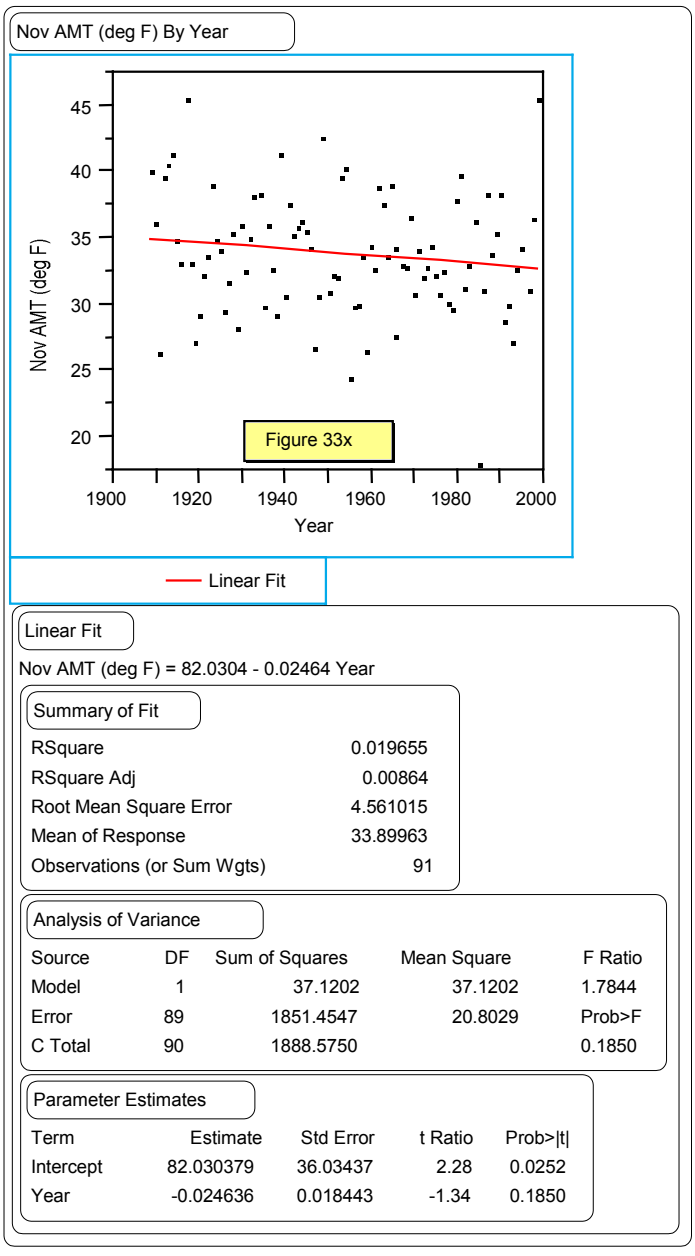
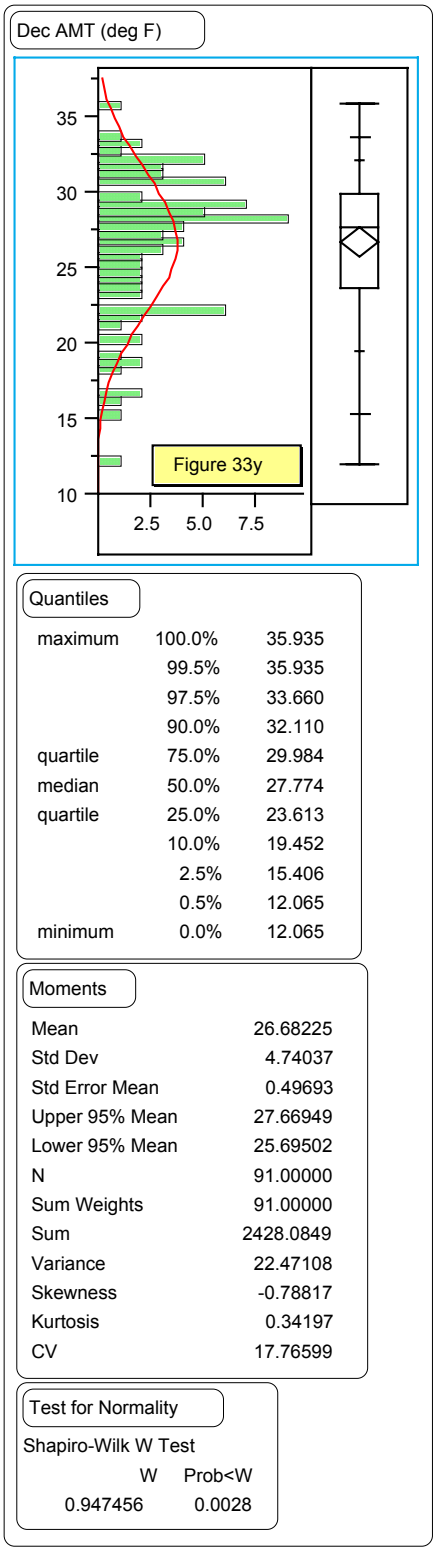


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for November (Figure 33w) and distribution through 1909-1999 (Figure 33x) for Lead, SD. On Figure 33w the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).



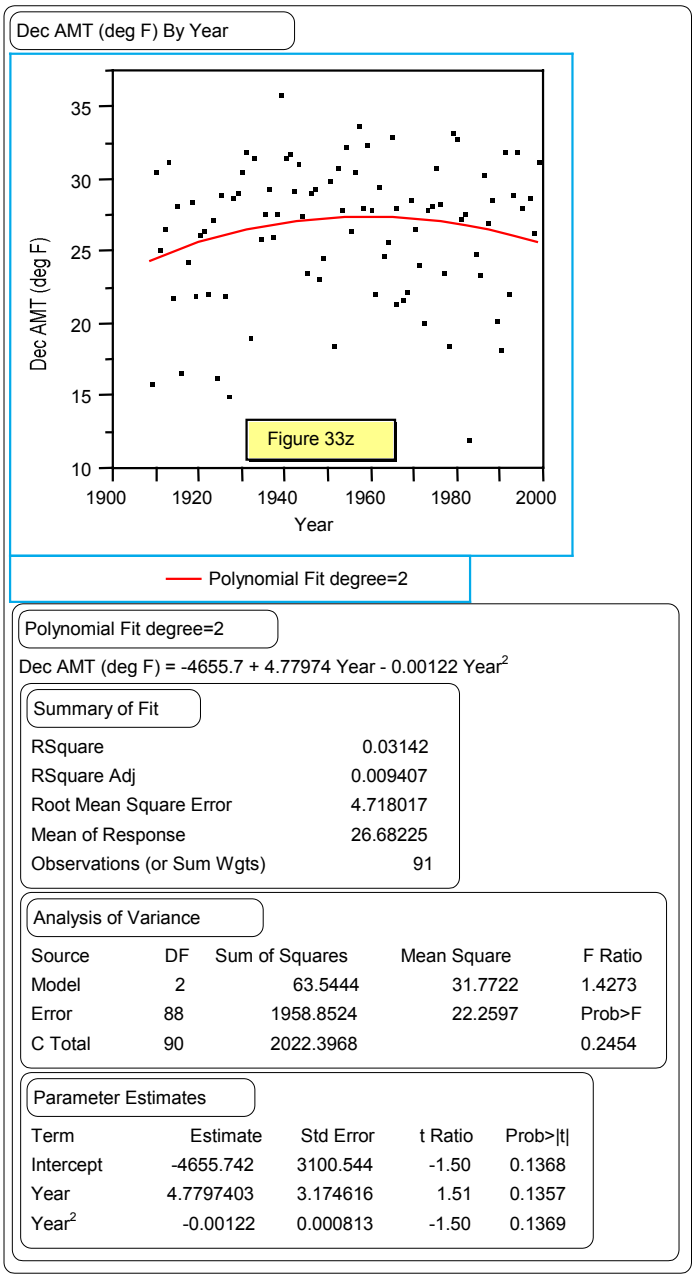


Figure 33. Monthly average temperature (^{O}F), AMT, histogram for December (Figure 33y) and distribution through 1909-1999 (Figure 33z) for Lead, SD. On Figure 33y the Y axis = average monthly temperature (^{O}F) and the X axis = the number of years (frequency).

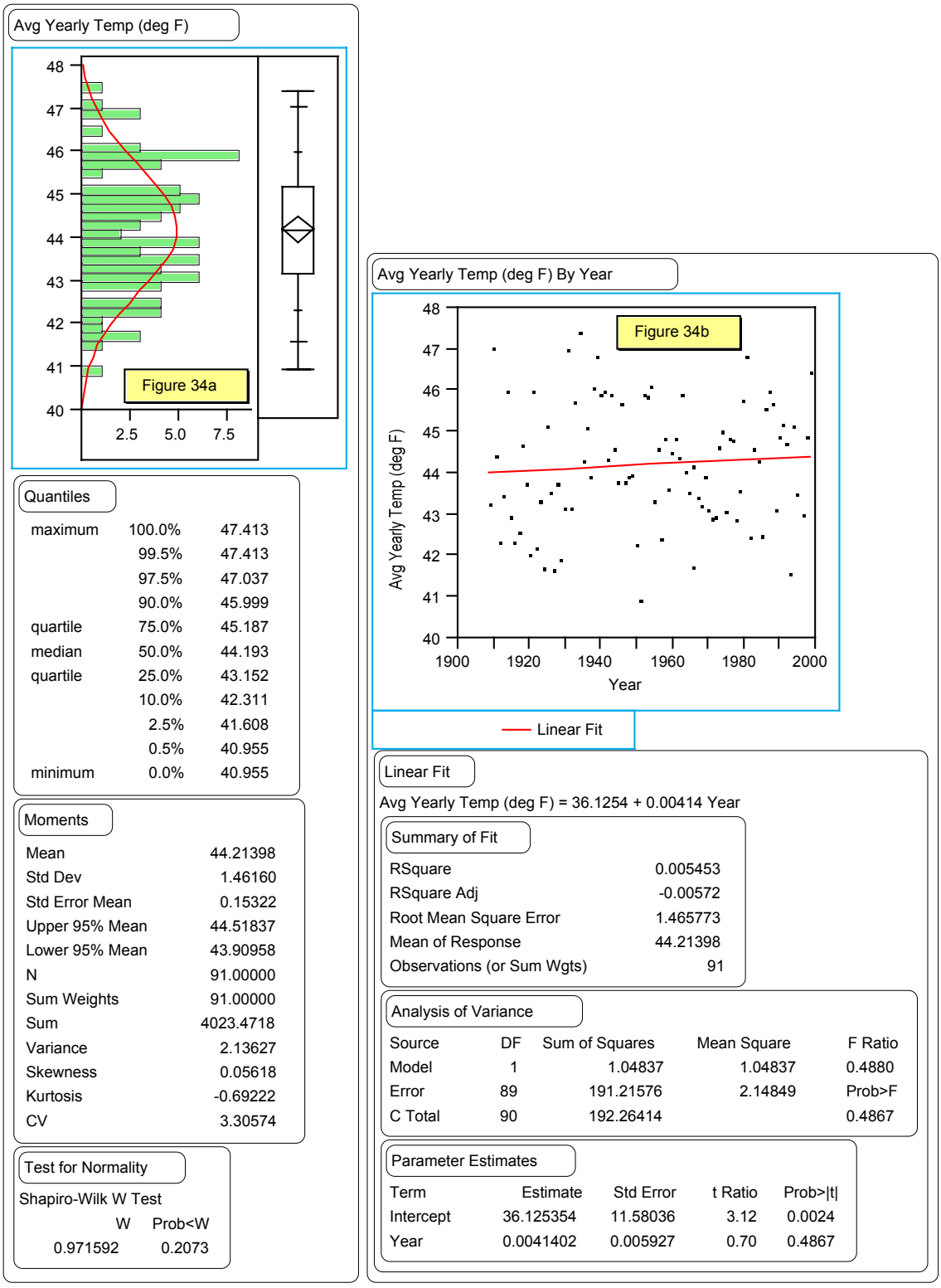
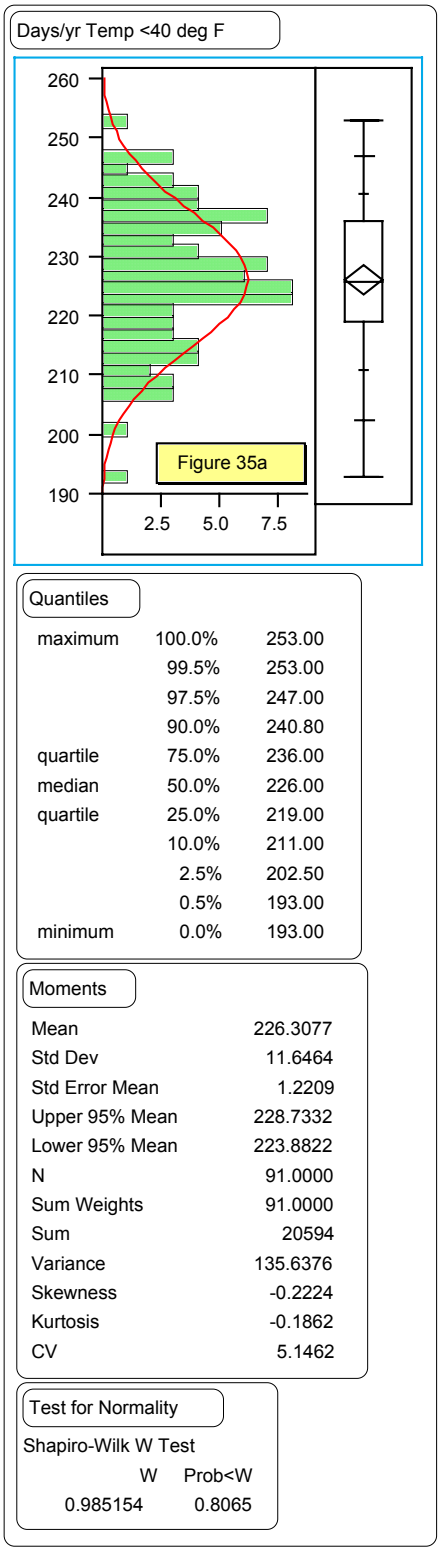


Figure 34. Annual average temperature (^{O}F) histogram (Figure 34a) and as function of year (Figure 34b) for Lead, SD (1909-1999). On Figure 34a the Y axis = average yearly temperature (^{O}F) and the X axis = the number of years (frequency).



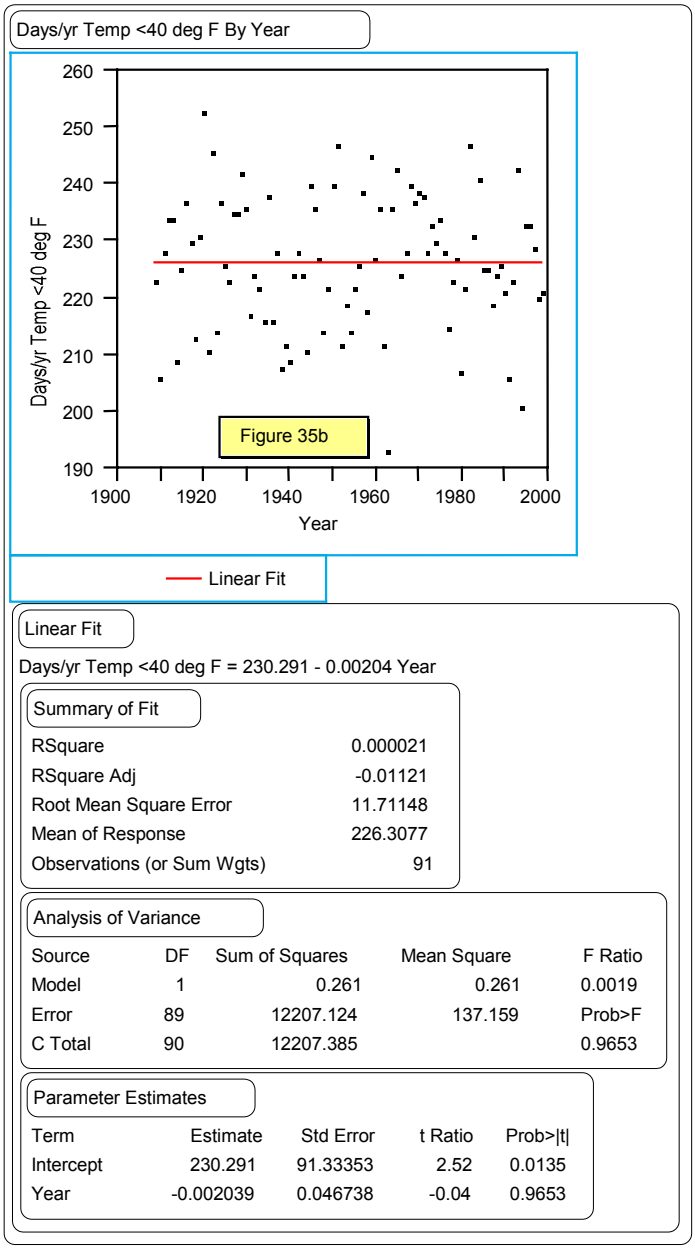
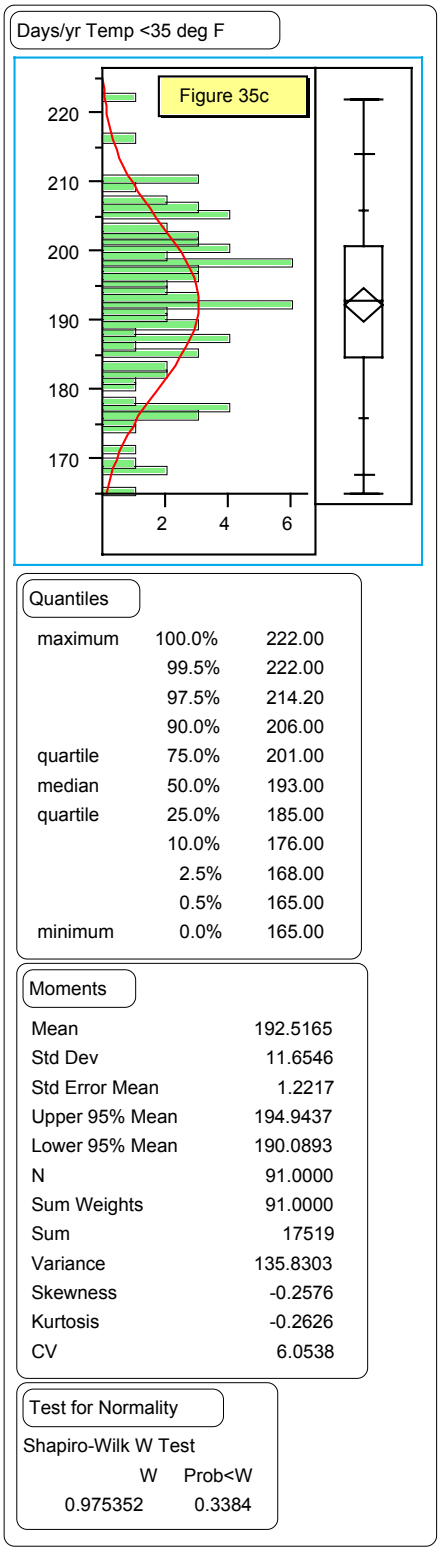


Figure 35. Number of days/yr with temperatures < 40 ^{O}F histogram (Figure 35a) and distribution by year (1909-1999) for Lead, SD (Figure 35b). On Figure 35a the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



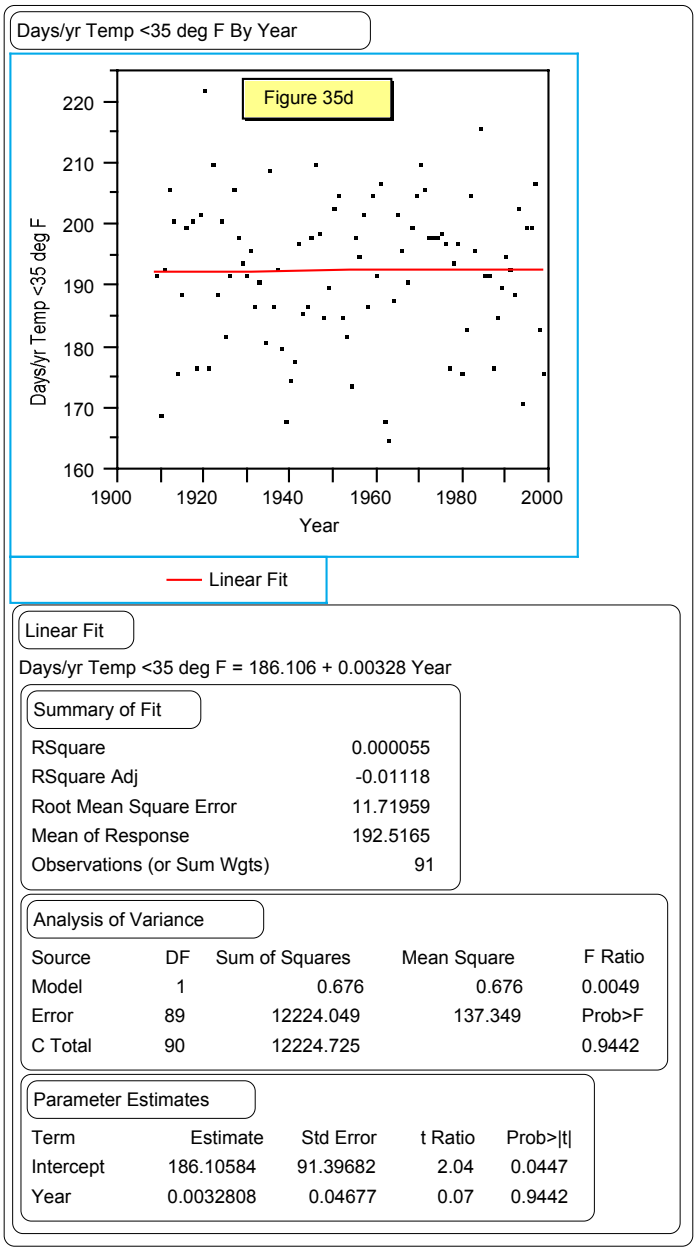
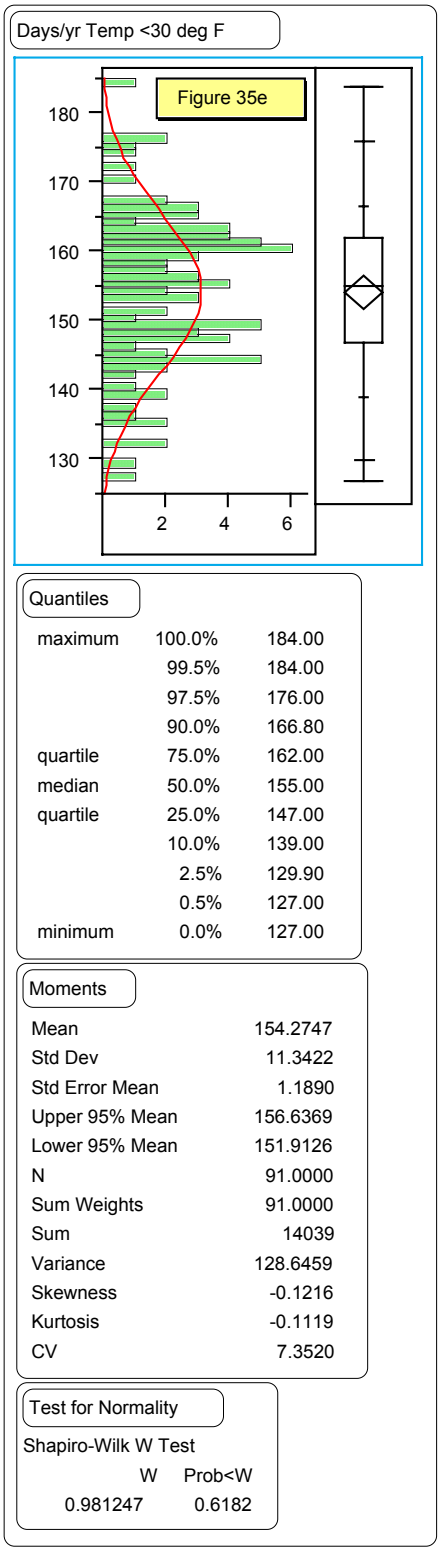


Figure 35. Number of days/yr with temperatures < 35 ^{O}F histogram (Figure 35c) and distribution by year (1909-1999) for Lead, SD (Figure 35d). On Figure 35c the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



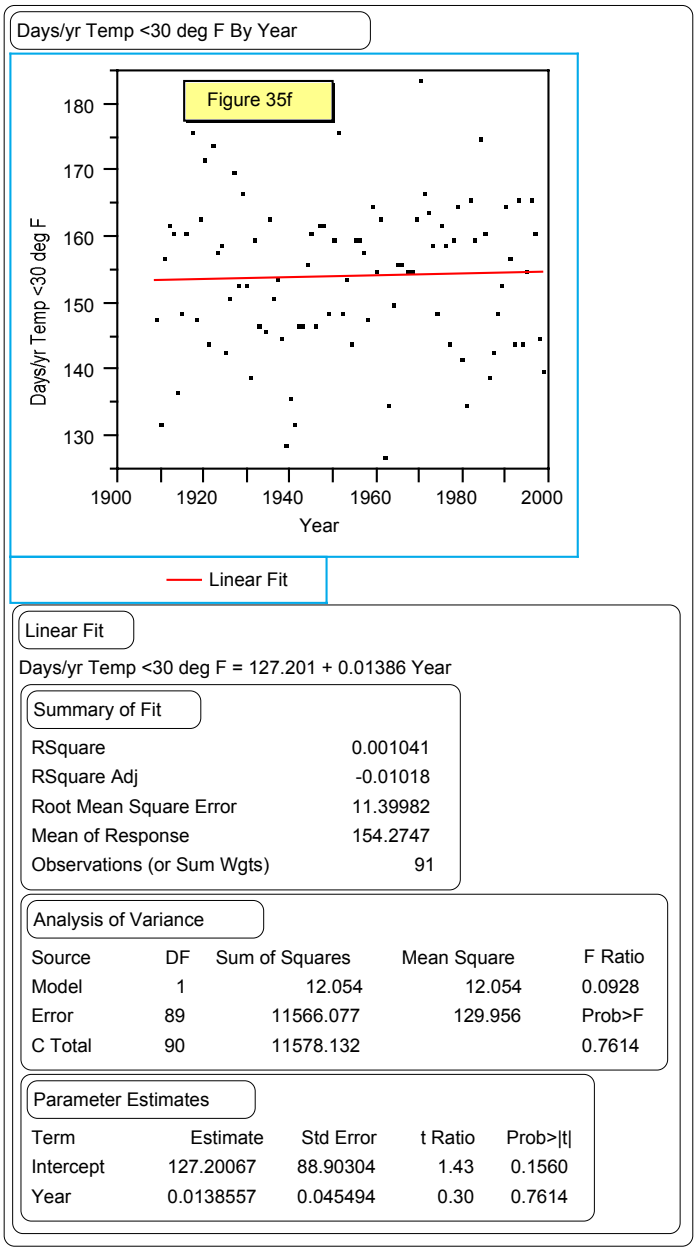
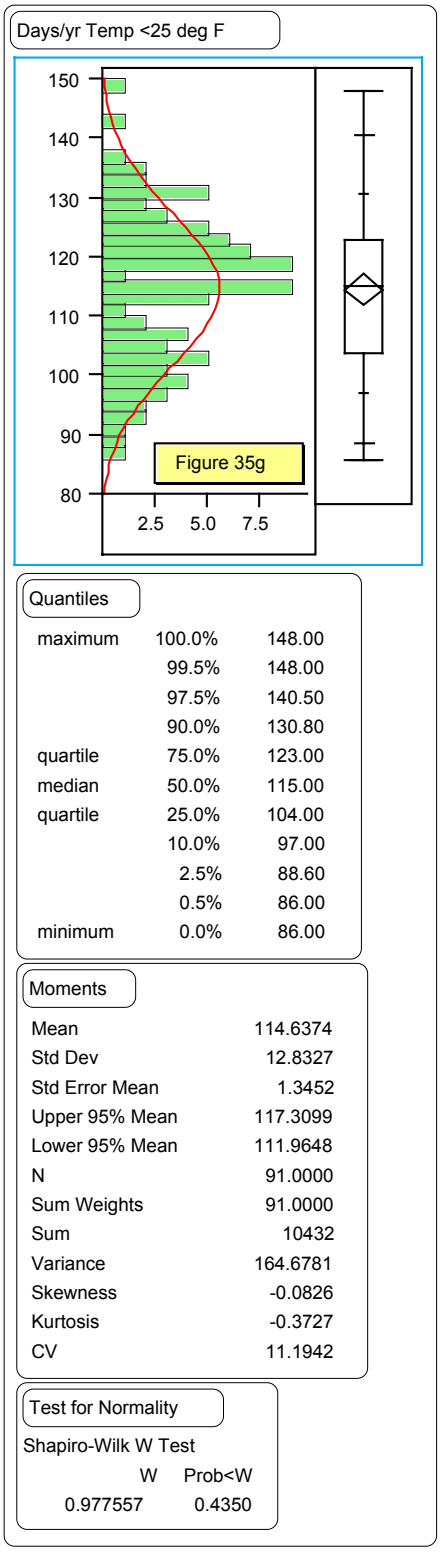


Figure 35. Number of days/yr with temperatures < 30 ^{O}F histogram (Figure 35e) and distribution by year (1909-1999) for Lead, SD (Figure 35f). On Figure 35e the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



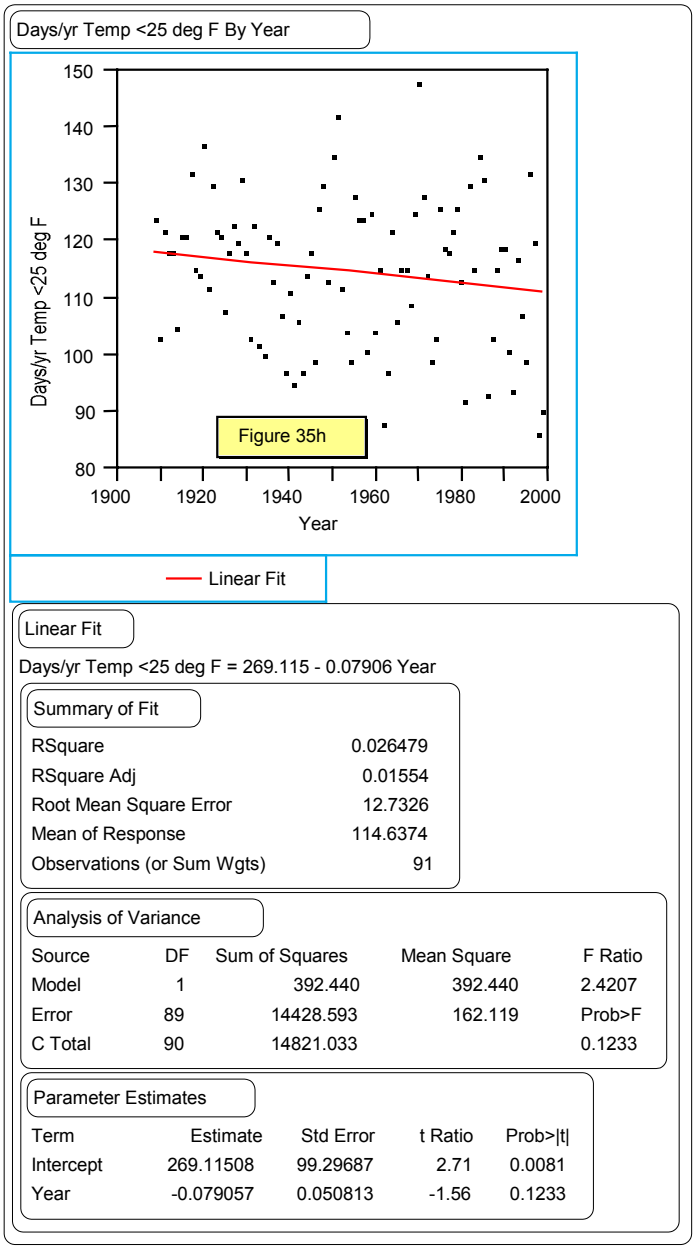


Figure 35. Number of days/yr with temperatures < 25 ^{O}F histogram (Figure 35g) and distribution by year (1909-1999) for Lead, SD (Figure 35h). On Figure 35g the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

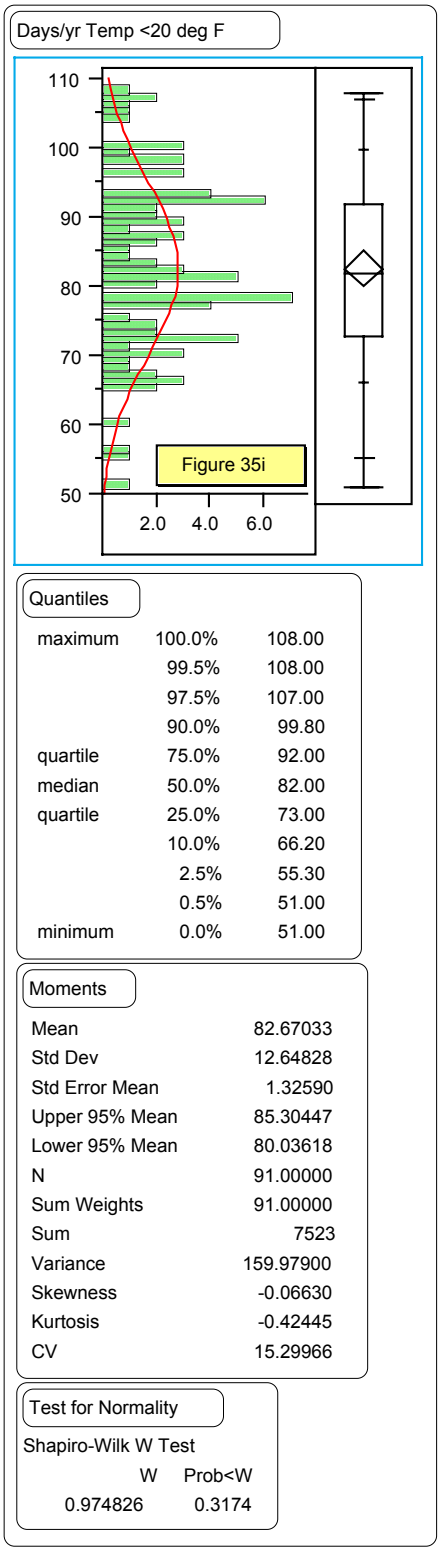
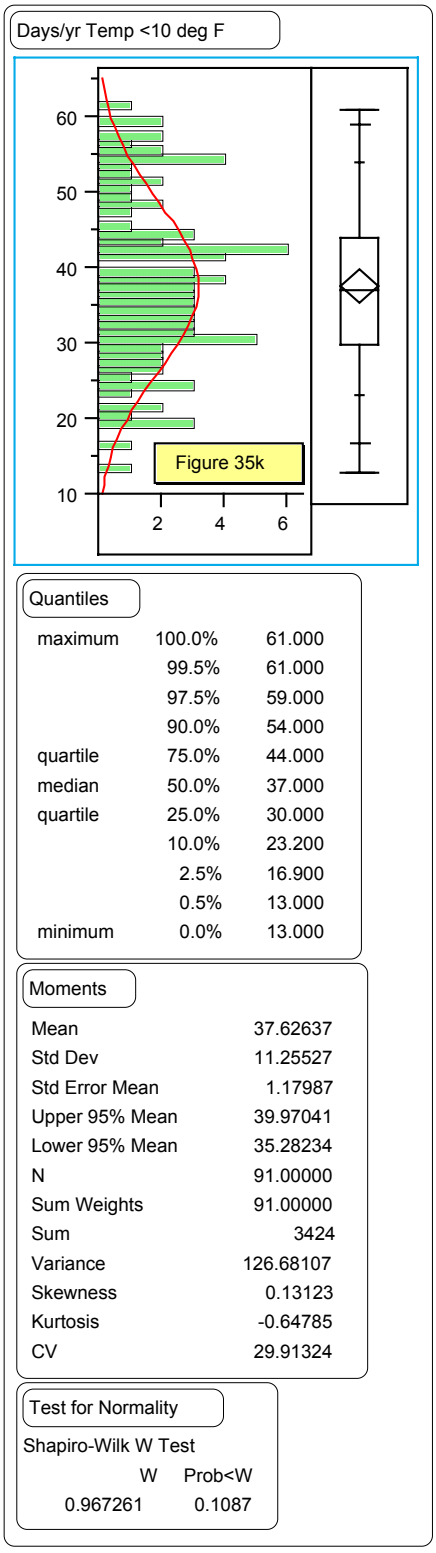


Figure 35. Number of days/yr with temperatures < 20 ^{O}F histogram (Figure 35i) and distribution by year (1909-1999) for Lead, SD (Figure 35j). On Figure 35i the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



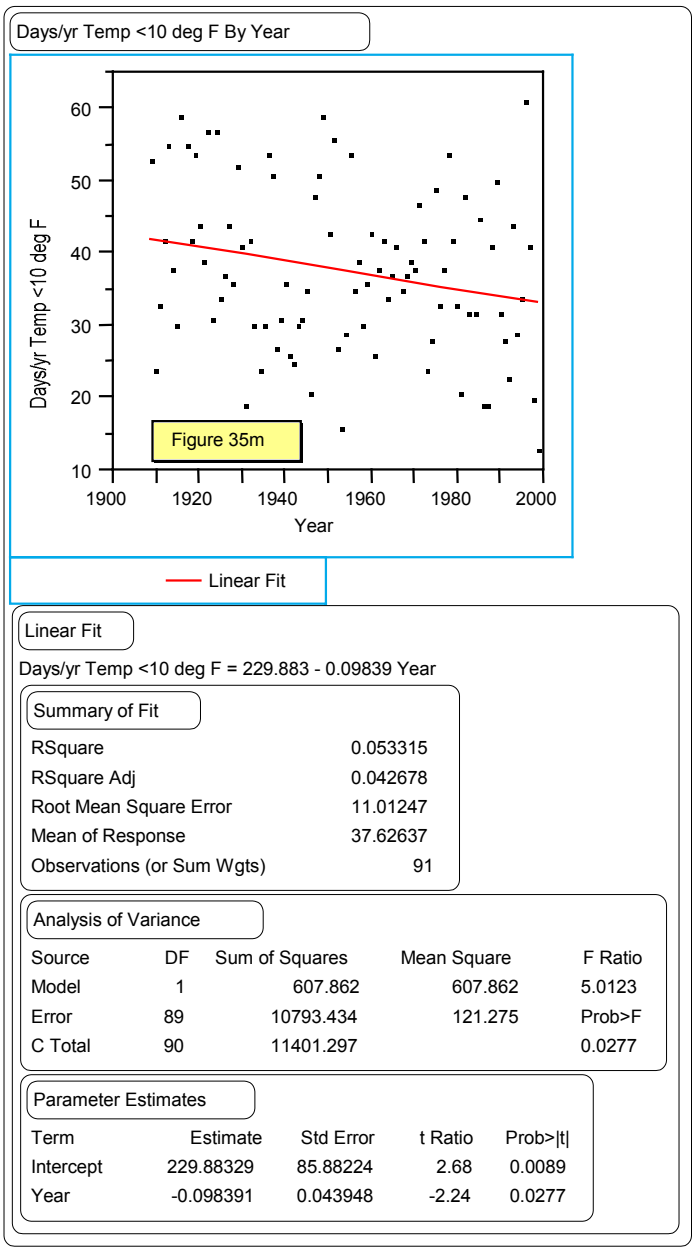
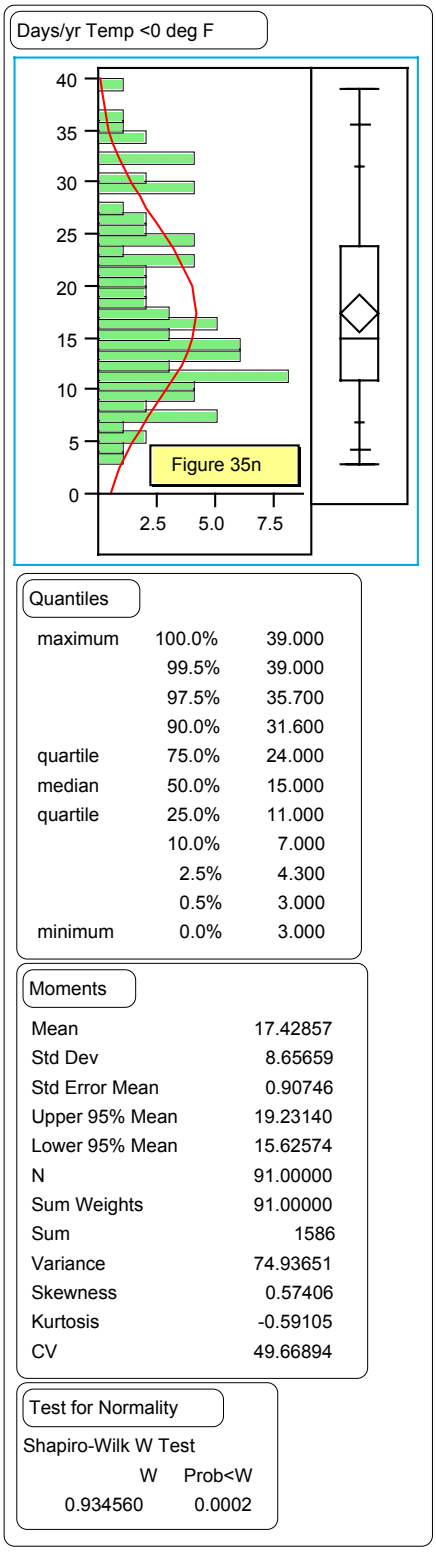


Figure 35. Number of days/yr with temperatures < 10 ^{O}F histogram (Figure 35k) and distribution by year (1909-1999) for Lead, SD (Figure 35m). On Figure 35k the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	39.000
	99.5%	39.000
	97.5%	35.700
	90.0%	31.600
quartile	75.0%	24.000
median	50.0%	15.000
quartile	25.0%	11.000
	10.0%	7.000
	2.5%	4.300
	0.5%	3.000
minimum	0.0%	3.000

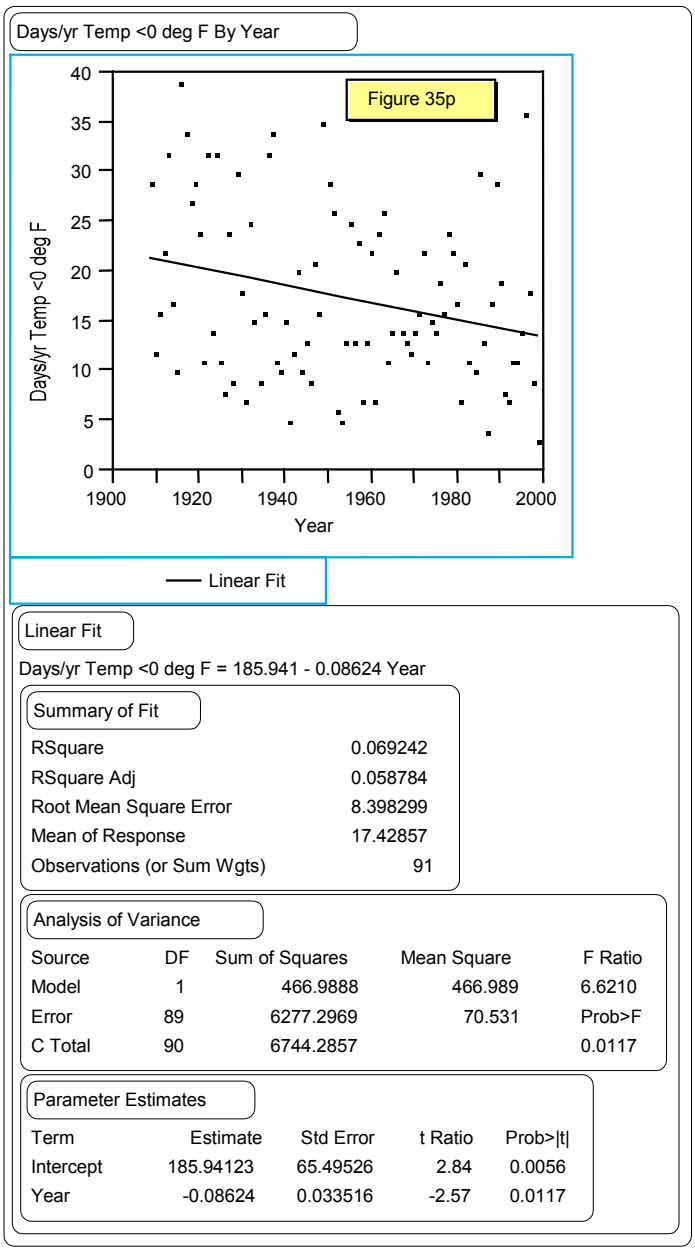
Moments

Mean	17.42857
Std Dev	8.65659
Std Error Mean	0.90746
Upper 95% Mean	19.23140
Lower 95% Mean	15.62574
N	91.00000
Sum Weights	91.00000
Sum	1586
Variance	74.93651
Skewness	0.57406
Kurtosis	-0.59105
CV	49.66894

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.934560	0.0002



Linear Fit

Days/yr Temp <0 deg F = 185.941 - 0.08624 Year

Summary of Fit

RSquare	0.069242
RSquare Adj	0.058784
Root Mean Square Error	8.398299
Mean of Response	17.42857
Observations (or Sum Wgts)	91

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	466.9888	466.989	6.6210
Error	89	6277.2969	70.531	Prob>F
C Total	90	6744.2857		0.0117

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	185.94123	65.49526	2.84	0.0056
Year	-0.08624	0.033516	-2.57	0.0117

Figure 35. Number of days/yr with temperatures < 0 ^{O}F histogram (Figure 35n) and distribution by year (1909-1999) for Lead, SD (Figure 35p). On Figure 35n the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

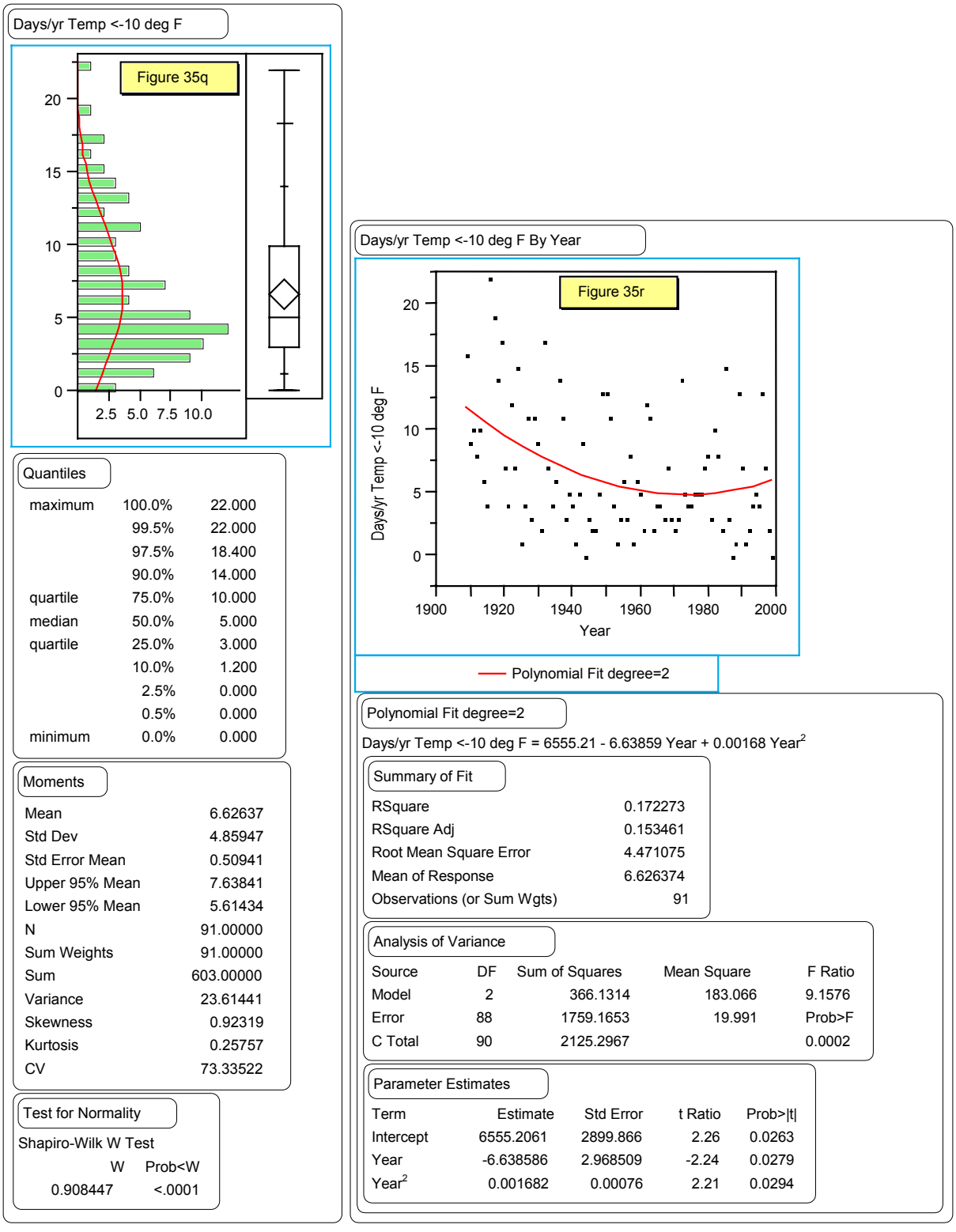
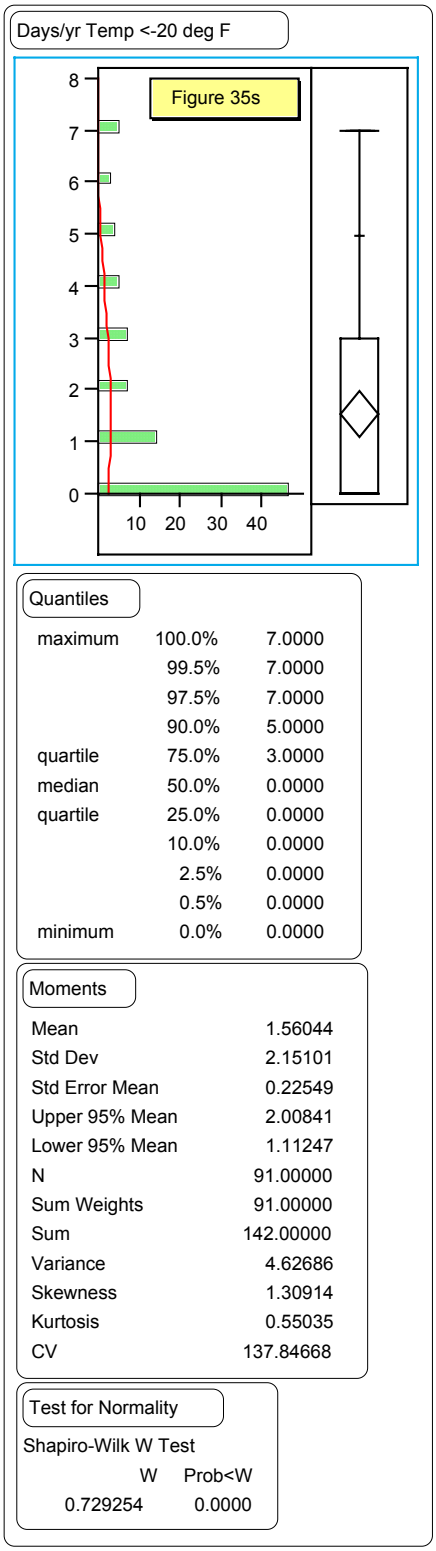


Figure 35. Number of days/yr with temperatures < -10 ^{O}F histogram (Figure 35q) and distribution by year (1909-1999) for Lead, SD (Figure 35r). On Figure 35q the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



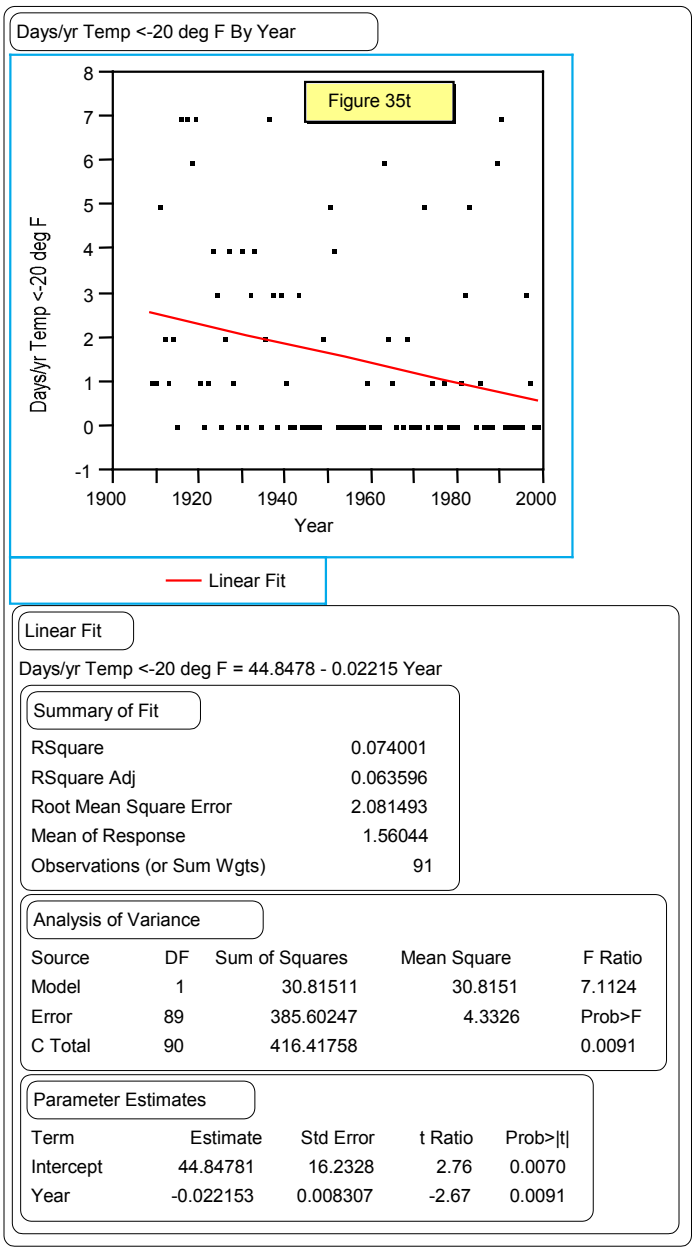


Figure 35. Number of days/yr with temperatures < -20 ^{O}F histogram (Figure 35s) and distribution by year (1909-1999) for Lead, SD (Figure 35t). On Figure 35s the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

Table 7. Average number of days/month and per year at critical cold temperature (^{O}F) levels for Lead, SD (1909-1999).

Month	----------Critical Cold Temperature Values (^{O}F) ----------								
	<40	<35	<30	<25	<20	<10	<0	<-10	<-20
	----------Number of days at critical temperature----------								
Jan	30.978	29.978	27.367	23.622	19.278	11.000	6.533	2.933	0.678
Feb	28.100	27.078	24.711	20.544	16.233	8.656	4.122	1.444	0.378
Mar	30.167	28.233	24.867	19.444	13.867	5.711	2.022	0.422	0.011
Apr	26.344	22.144	15.944	9.156	5.011	0.733	0.078	0.000	0.000
May	17.722	10.578	4.333	1.167	0.344	0.022	0.000	0.000	0.000
Jun	4.333	1.367	0.167	0.022	0.000	0.000	0.000	0.000	0.000
Jul	0.400	0.022	0.011	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.956	0.167	0.033	0.000	0.000	0.000	0.000	0.000	0.000
Sep	9.678	5.067	1.967	0.689	0.167	0.000	0.000	0.000	0.000
Oct	21.022	15.333	9.633	4.800	2.244	0.389	0.022	0.000	0.000
Nov	28.456	25.411	20.733	14.589	9.789	3.600	1.089	0.278	0.011
Dec	30.667	29.278	26.222	21.878	16.656	7.933	3.756	1.622	0.500
Total days/year	228.82	194.66	155.99	115.91	83.59	38.04	17.62	6.70	1.58

Table 8. Average number of days/month and per year at critical warm temperature (^{O}F) levels for Lead, SD (1909-1999).

Month	---Critical Warm Temperature Values (^{O}F)---					
	>65	>70	>75	>80	>85	>90
	---Number of days at critical temperature---					
Jan	0.011	0.000	0.000	0.000	0.000	0.000
Feb	0.056	0.000	0.000	0.000	0.000	0.000
Mar	0.778	0.156	0.011	0.011	0.000	0.000
Apr	4.778	1.756	0.400	0.056	0.000	0.000
May	13.344	7.256	3.522	0.978	0.178	0.000
Jun	22.856	16.956	11.533	6.433	2.456	0.589
Jul	30.344	27.622	22.911	15.989	7.900	2.211
Aug	29.822	27.011	22.156	14.744	6.611	1.356
Sep	20.856	15.367	10.078	4.922	1.422	0.178
Oct	10.122	4.522	1.511	0.189	0.000	0.000
Nov	0.944	0.067	0.011	0.000	0.000	0.000
Dec	0.033	0.000	0.000	0.000	0.000	0.000
Total days/year	133.94	100.71	72.13	43.32	18.57	4.33

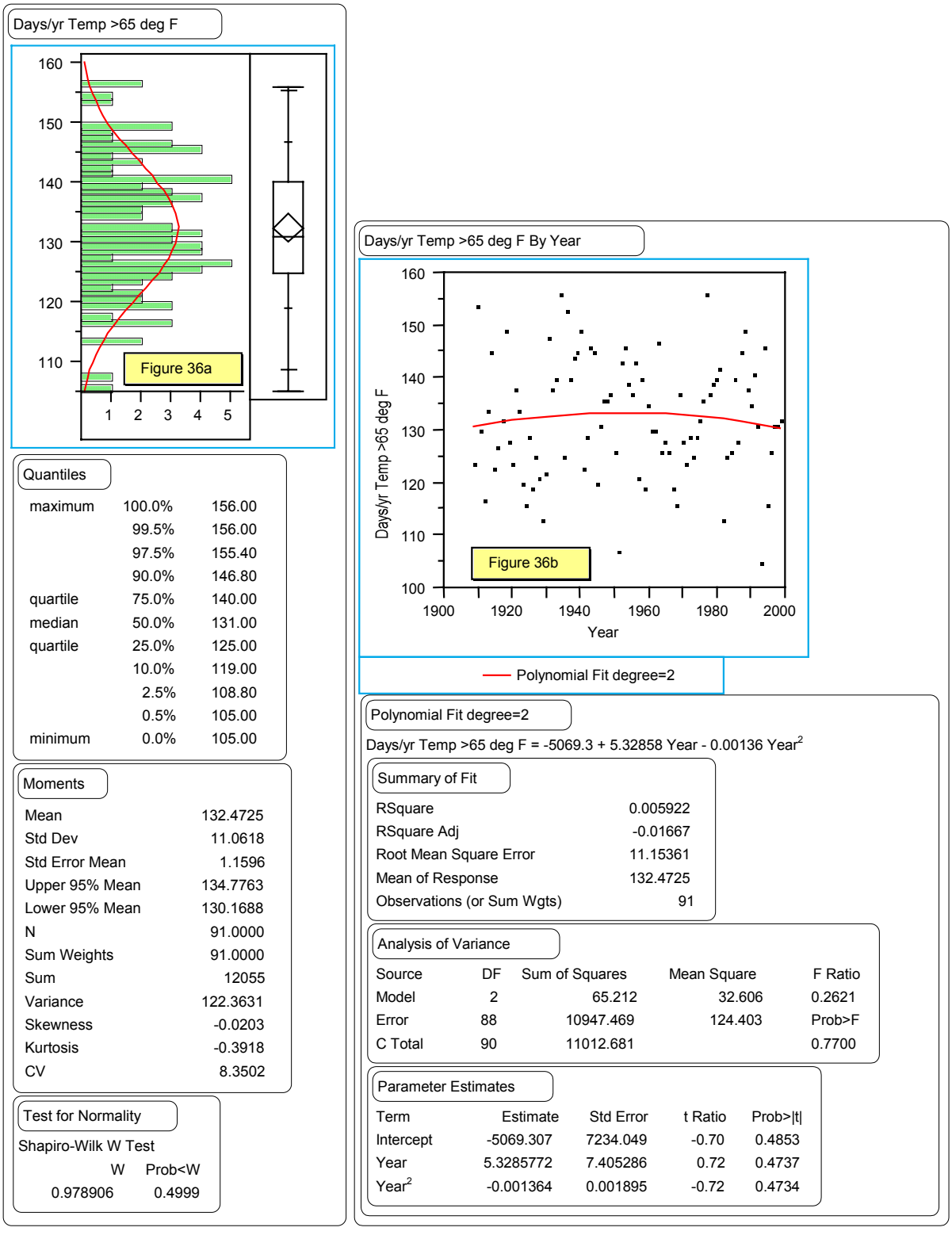
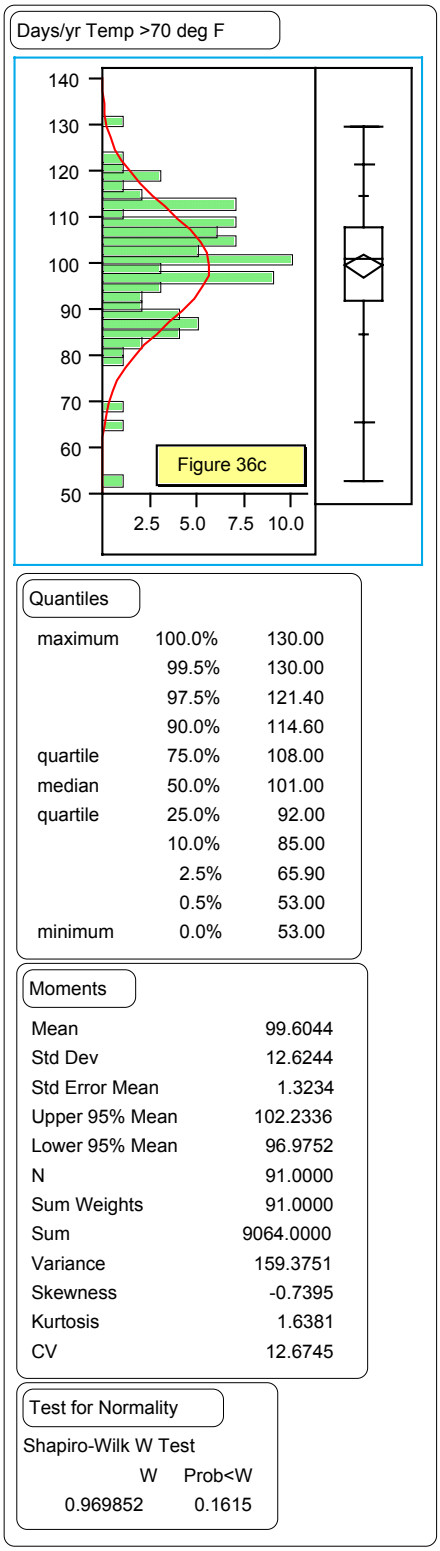


Figure 36. Number of days/yr with temperatures > 65 ^{O}F histogram (Figure 36a) and distribution by year (1909-1999) for Lead, SD (Figure 36b). On Figure 36a the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).



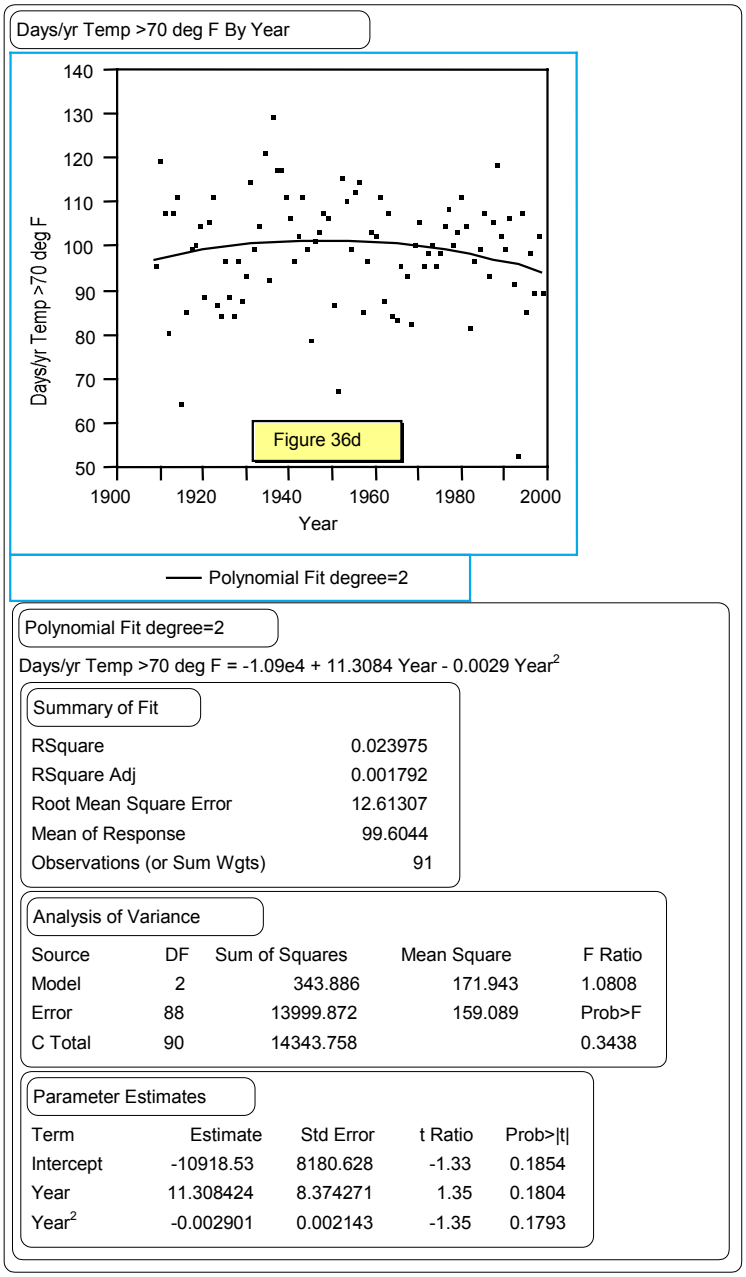


Figure 36. Number of days/yr with temperatures > 70 ^{O}F histogram (Figure 36c) and distribution by year (1909-1999) for Lead, SD (Figure 36d). On Figure 36c the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

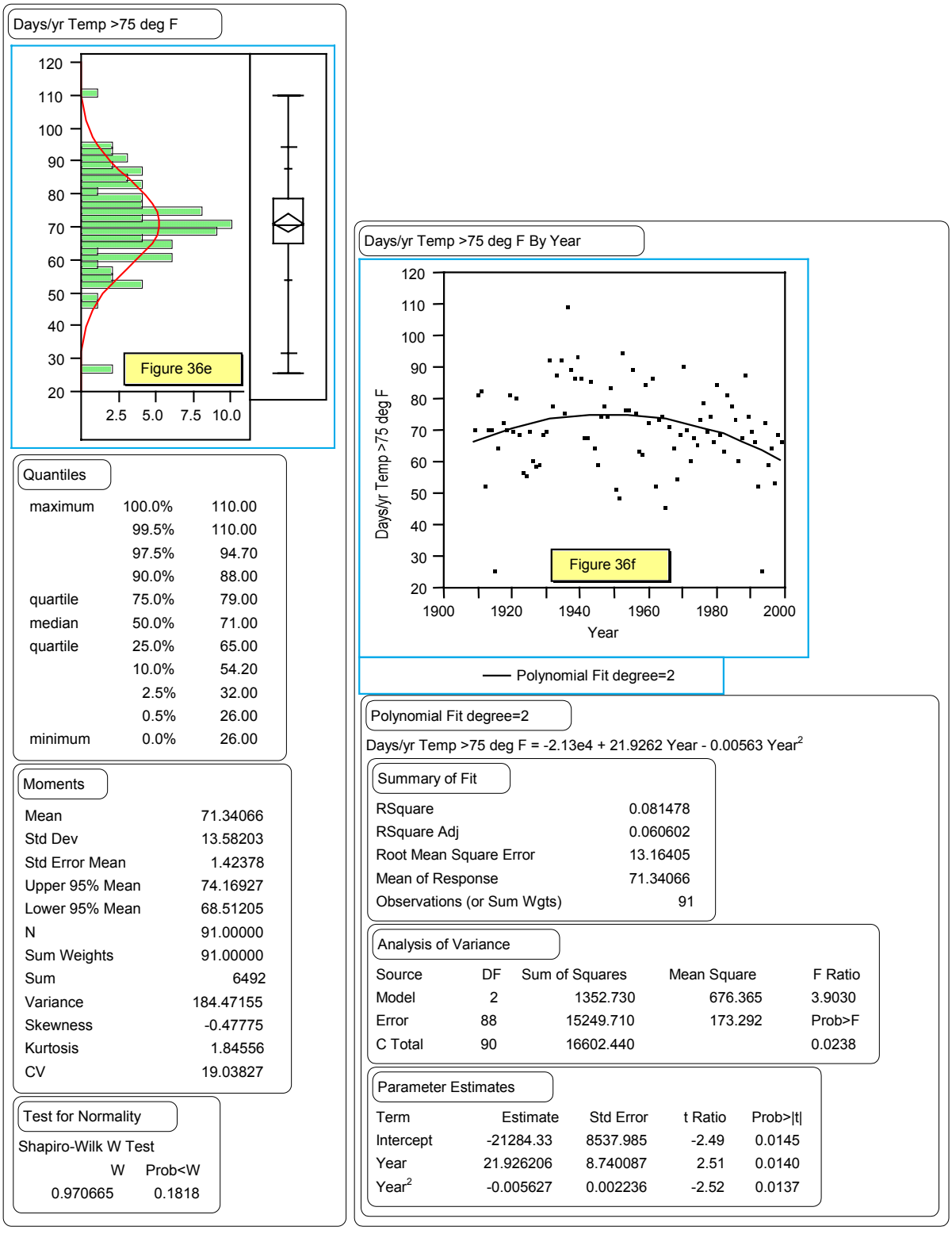


Figure 36. Number of days/yr with temperatures > 75 ^{O}F histogram (Figure 36e) and distribution by year (1909-1999) for Lead, SD (Figure 36f). On Figure 36e the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

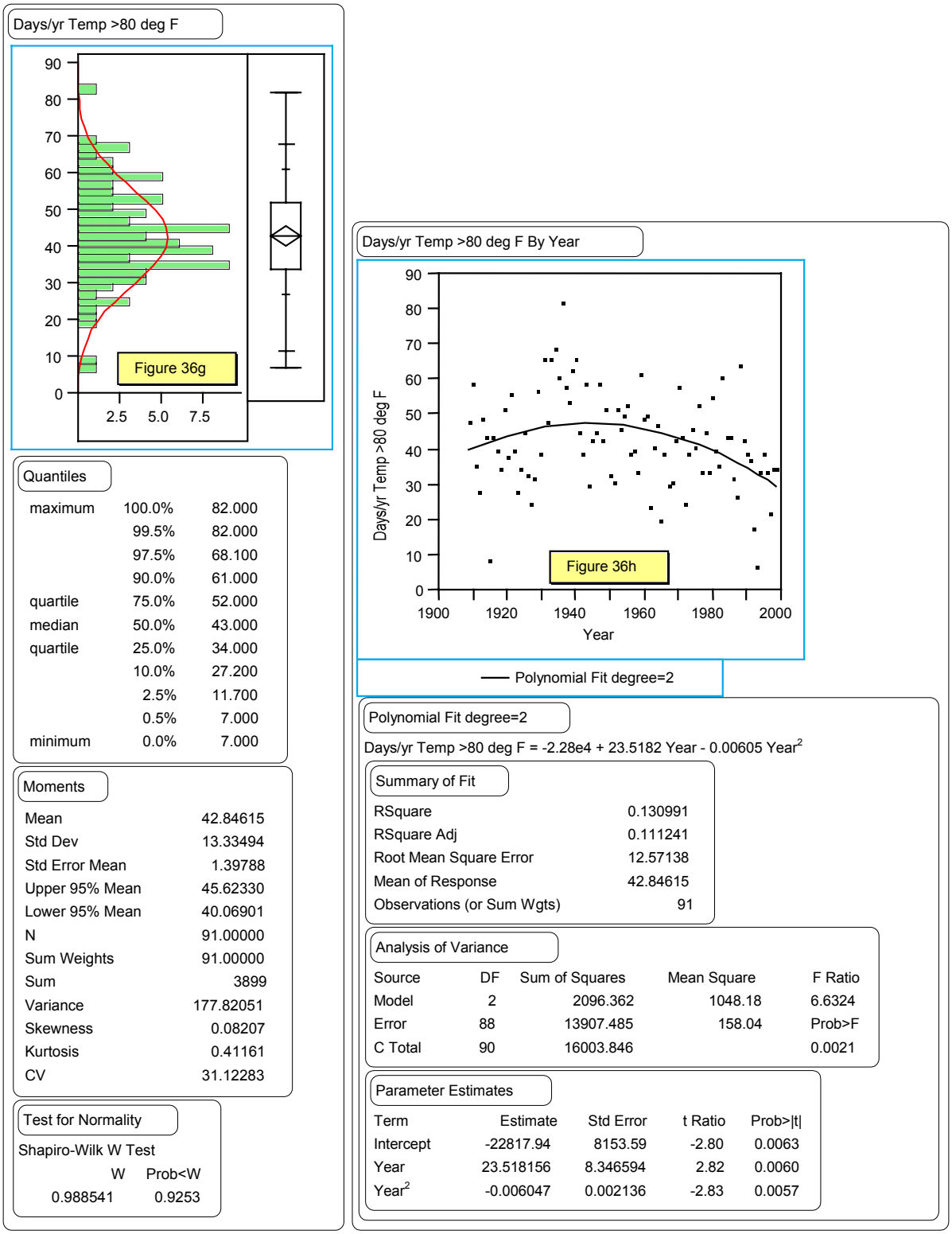


Figure 36. Number of days/yr with temperatures > 80 ^{O}F histogram (Figure 36g) and distribution by year (1909-1999) for Lead, SD (Figure 36h). On Figure 36g the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

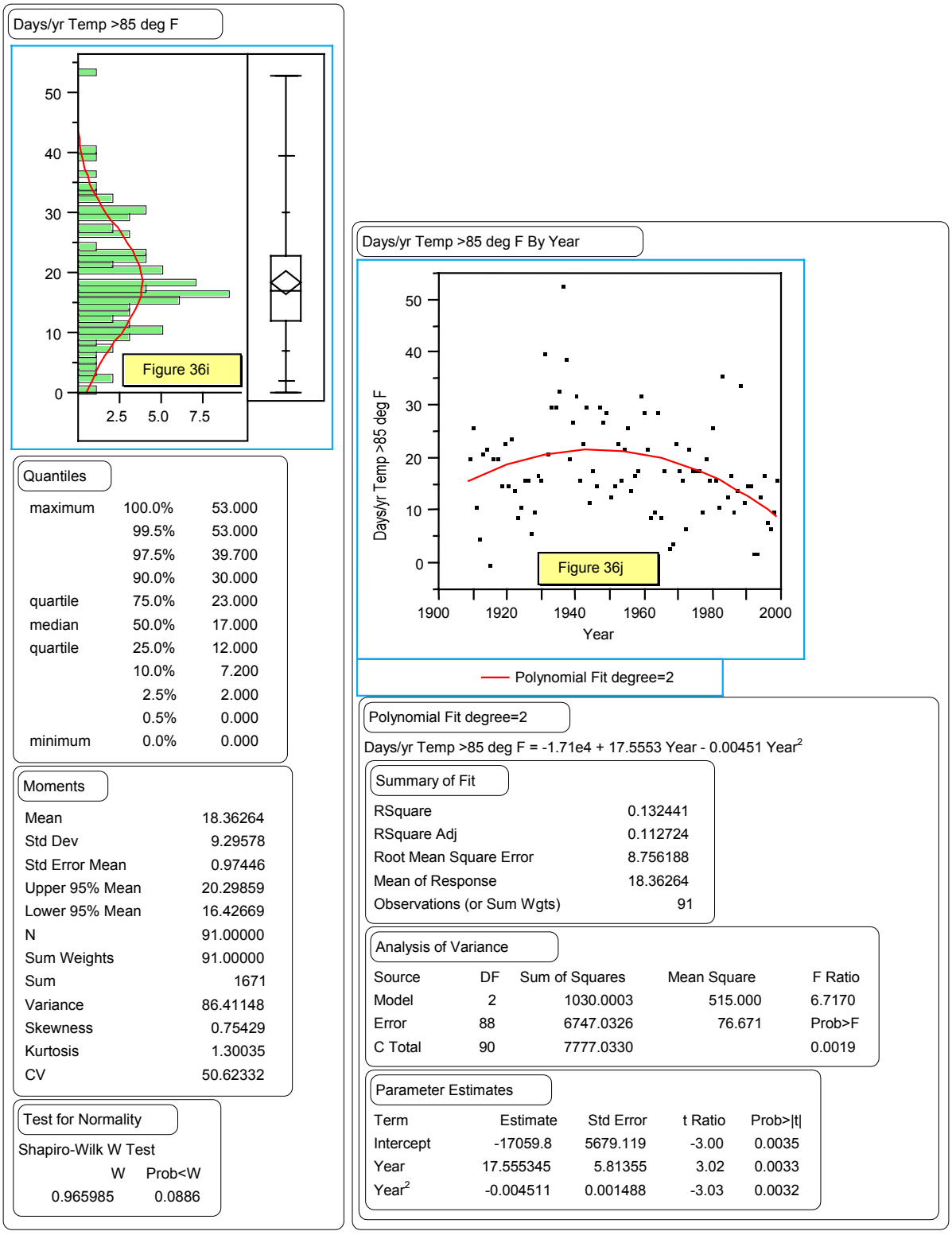


Figure 36. Number of days/yr with temperatures > 85 ^{O}F histogram (Figure 36i) and distribution by year (1909-1999) for Lead, SD (Figure 36j). On Figure 36i the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

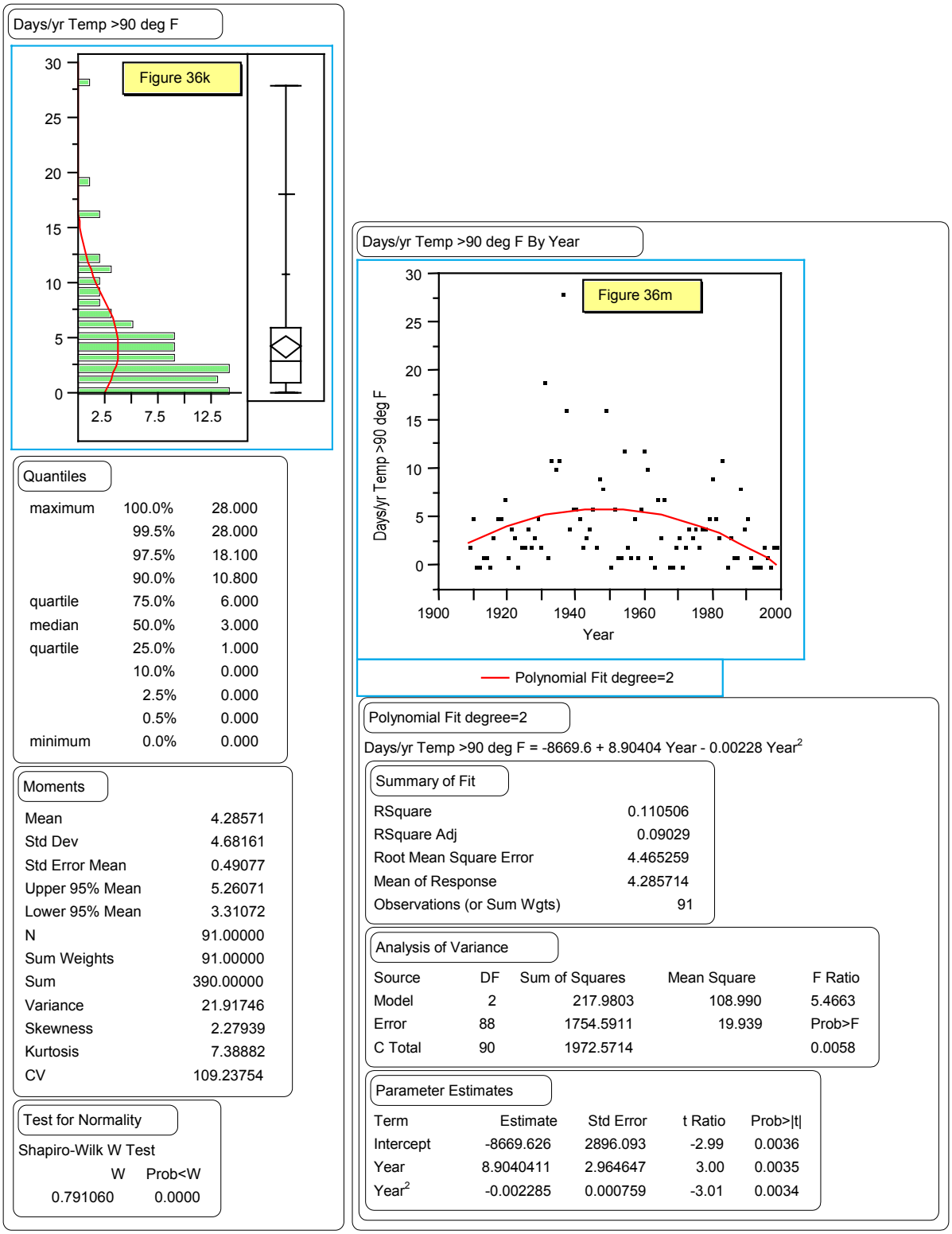


Figure 36. Number of days/yr with temperatures > 90 ^{O}F histogram (Figure 36k) and distribution by year (1909-1999) for Lead, SD (Figure 36m). On Figure 36k the Y axis = number of days/yr at the critical temperature level and the X axis = the number of years (frequency).

Daily Temperature Extremes – maximum, minimum, and average

The distribution (histograms) of the daily maximum, minimum, and average temperatures (^{O}F) for each month are shown in Figures 37a-37k and 37m for Lead, SD (1909-1999). None of the daily maximum, minimum, or average temperature histograms were normally distributed. The highest recorded temperature at Lead, SD was 101 ^{O}F in July 1936. The coldest recorded temperature was – 40 ^{O}F in February 1946.

PRECIPITATION – Monthly Information

Monthly Precipitation – 91 year averages

The monthly precipitation averages for the 91 years studied, 1909-1999, at Lead, SD are shown in Figure 38. The months with the highest average precipitation (4 in.) are May and June while the months with the lowest average precipitation (<1.5 in.) are January, February, November, and December.

The distribution (histograms) of the monthly average precipitation for each month of the year (Figures 39a, 39c, 39e, 39g, 39i, 39k, 39n, 39q, 39s, 39u, 39w, and 39y) and as a function of year (Figures 39b, 39d, 39f, 39h, 39j, 39m, 39p, 39r, 39t, 39v, 39x, and 39z) at Lead, SD for 1909-1999 show interesting results. No months had a normal distribution for monthly precipitation levels. The highest recorded monthly precipitation levels were 15.3 in. in May 1946 and 14.8 in. in May 1965. Six months had no significant trend when average monthly precipitation and year were compared. February, April, and November had significant ($p < 0.06$) positive linear trends when total precipitation and year were compared (Figures 39d, 39h, and 39x, respectively). March and October had significant curvilinear trends with the low points during the 1920s (Figure 39f) and the 1950s (Figures 39v), respectively. December had a significant curvilinear trend with the low during the 1930s (Figure 39z).

The distribution (histogram) of Lead, SD annual precipitation for 1909-1999 was not normal (Figure 40a). In addition, there was a significant positive linear trend when total annual precipitation and year (Figure 40b) were compared. Average annual precipitation has increased by an average of 0.1 in/yr from 1909 to 1999 at Lead, SD.

PRECIPTATION - Daily Information

One-Day Maximum Precipitation Totals

The histogram for one-day maximum total precipitation (in.) on a yearly basis for the 91-year study period (1909-1999) for Lead, SD is shown in Figure 41a. The distribution was not normal and there was no significant trend when one-day maximum precipitation was compared to year (Figure 41b). The probability of having days with total precipitation within a certain range is shown in Table 9. Every year there are more than 4 days/year that receive more than 1 in and more than 1 day in every 8 years that receives more than 4 inches/day.

Seven-Day Maximum Precipitation Totals

The distribution (histograms) of maximum 7-day total precipitation (in) for each month of the year (Figures 42a, 42c, 42e, 42g, 42i, 42k, 42n, 42q, 42s, 42u, 42w, and 42y) and as a function of year (Figures 42b, 42d, 42f, 42h, 42j, 42m, 42p, 42r, 42t, 42v, 42x, and 42z) at Lead, SD for 1909-1999 show interesting results. No months had a normal distribution for maximum 7-day total precipitation levels. The highest 7-day precipitation total was 10.3 in. (June 1976) and 10.0 in. (May 1909, June 1909, May 1965, and May 1982). The lowest 7-day maximum precipitation

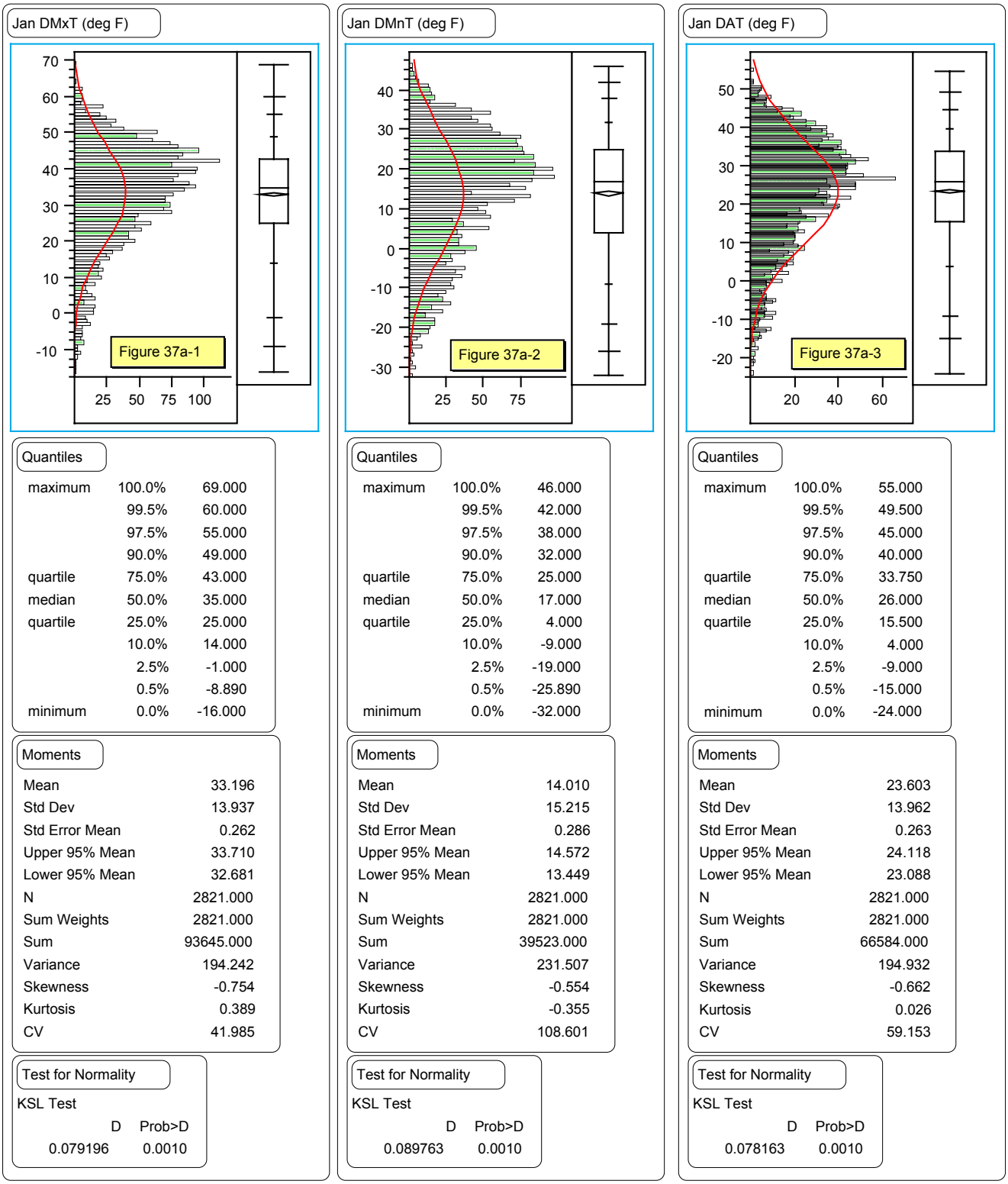
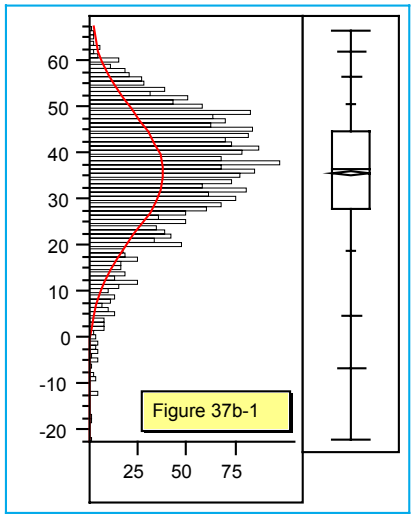


Figure 37a. Distribution of daily January temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

Feb DMxT (deg F)



Quantiles

maximum	100.0%	67.000
	99.5%	62.145
	97.5%	57.000
	90.0%	51.000
quartile	75.0%	45.000
median	50.0%	37.000
quartile	25.0%	28.000
	10.0%	19.000
	2.5%	5.000
	0.5%	-6.290
minimum	0.0%	-22.000

Moments

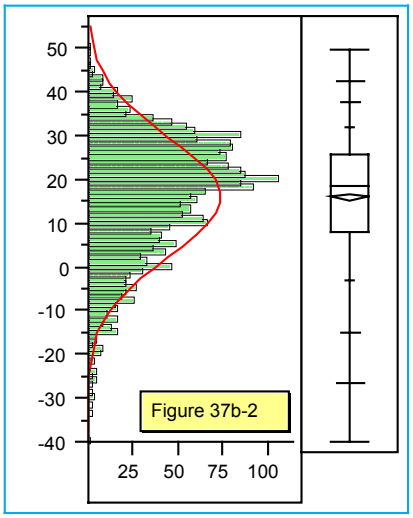
Mean	35.824
Std Dev	13.210
Std Error Mean	0.261
Upper 95% Mean	36.335
Lower 95% Mean	35.313
N	2570.000
Sum Weights	2570.000
Sum	92068.000
Variance	174.512
Skewness	-0.653
Kurtosis	0.540
CV	36.875

Test for Normality

KSL Test

D	Prob>D
0.058410	0.0010

Feb DMnT (deg F)



Quantiles

maximum	100.0%	50.000
	99.5%	43.000
	97.5%	38.000
	90.0%	32.000
quartile	75.0%	26.000
median	50.0%	19.000
quartile	25.0%	8.000
	10.0%	-3.000
	2.5%	-15.000
	0.5%	-26.145
minimum	0.0%	-40.000

Moments

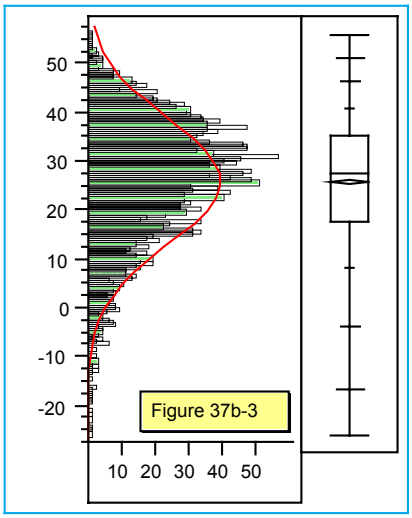
Mean	16.188
Std Dev	13.832
Std Error Mean	0.273
Upper 95% Mean	16.723
Lower 95% Mean	15.653
N	2570.000
Sum Weights	2570.000
Sum	41604.000
Variance	191.319
Skewness	-0.663
Kurtosis	0.251
CV	85.443

Test for Normality

KSL Test

D	Prob>D
0.090236	0.0010

Feb DAT (deg F)



Quantiles

maximum	100.0%	56.000
	99.5%	51.072
	97.5%	46.500
	90.0%	41.000
quartile	75.0%	35.500
median	50.0%	27.500
quartile	25.0%	18.000
	10.0%	8.500
	2.5%	-3.500
	0.5%	-16.500
minimum	0.0%	-26.000

Moments

Mean	26.006
Std Dev	12.909
Std Error Mean	0.255
Upper 95% Mean	26.506
Lower 95% Mean	25.507
N	2570.000
Sum Weights	2570.000
Sum	66836.000
Variance	166.640
Skewness	-0.675
Kurtosis	0.467
CV	49.638

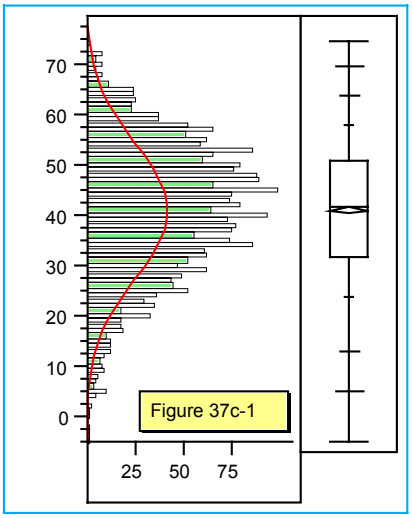
Test for Normality

KSL Test

D	Prob>D
0.066850	0.0010

Figure 37b. Distribution of daily February temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

Mar DMxT (deg F)



Quantiles

maximum	100.0%	75.000
	99.5%	70.000
	97.5%	64.000
	90.0%	58.000
quartile	75.0%	51.000
median	50.0%	42.000
quartile	25.0%	32.000
	10.0%	24.000
	2.5%	13.000
	0.5%	5.000
minimum	0.0%	-5.000

Moments

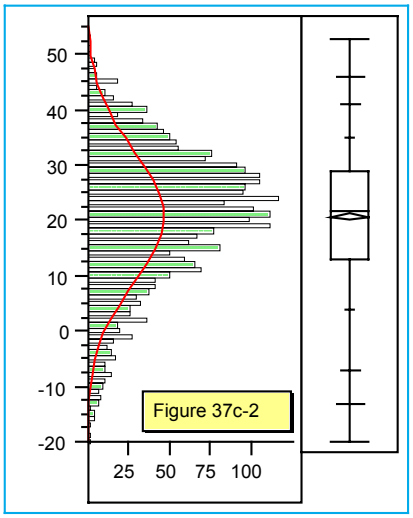
Mean	41.236
Std Dev	13.213
Std Error Mean	0.249
Upper 95% Mean	41.724
Lower 95% Mean	40.748
N	2821.000
Sum Weights	2821.000
Sum	116326
Variance	174.587
Skewness	-0.316
Kurtosis	-0.155
CV	32.043

Test for Normality

KSL Test

D	Prob>D
0.047087	0.0010

Mar DMnT (deg F)



Quantiles

maximum	100.0%	53.000
	99.5%	46.000
	97.5%	41.000
	90.0%	35.000
quartile	75.0%	29.000
median	50.0%	22.000
quartile	25.0%	13.000
	10.0%	4.000
	2.5%	-7.000
	0.5%	-13.000
minimum	0.0%	-20.000

Moments

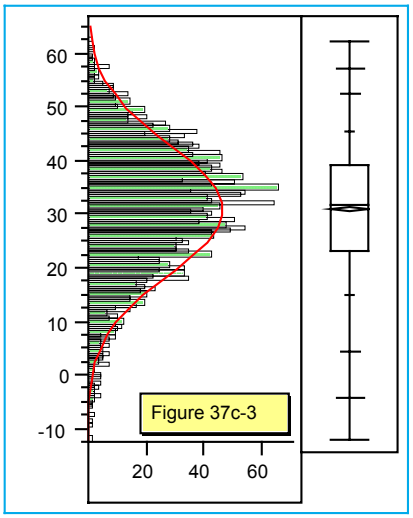
Mean	20.848
Std Dev	11.939
Std Error Mean	0.225
Upper 95% Mean	21.289
Lower 95% Mean	20.407
N	2821.000
Sum Weights	2821.000
Sum	58812.000
Variance	142.540
Skewness	-0.484
Kurtosis	0.123
CV	57.267

Test for Normality

KSL Test

D	Prob>D
0.070188	0.0010

Mar DAT (deg F)



Quantiles

maximum	100.0%	62.500
	99.5%	57.500
	97.5%	52.500
	90.0%	45.500
quartile	75.0%	39.500
median	50.0%	32.000
quartile	25.0%	23.500
	10.0%	15.000
	2.5%	4.500
	0.5%	-3.945
minimum	0.0%	-12.000

Moments

Mean	31.042
Std Dev	12.008
Std Error Mean	0.226
Upper 95% Mean	31.485
Lower 95% Mean	30.599
N	2821.000
Sum Weights	2821.000
Sum	87569.000
Variance	144.192
Skewness	-0.393
Kurtosis	0.034
CV	38.683

Test for Normality

KSL Test

D	Prob>D
0.042966	0.0010

Figure 37c. Distribution of daily March temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

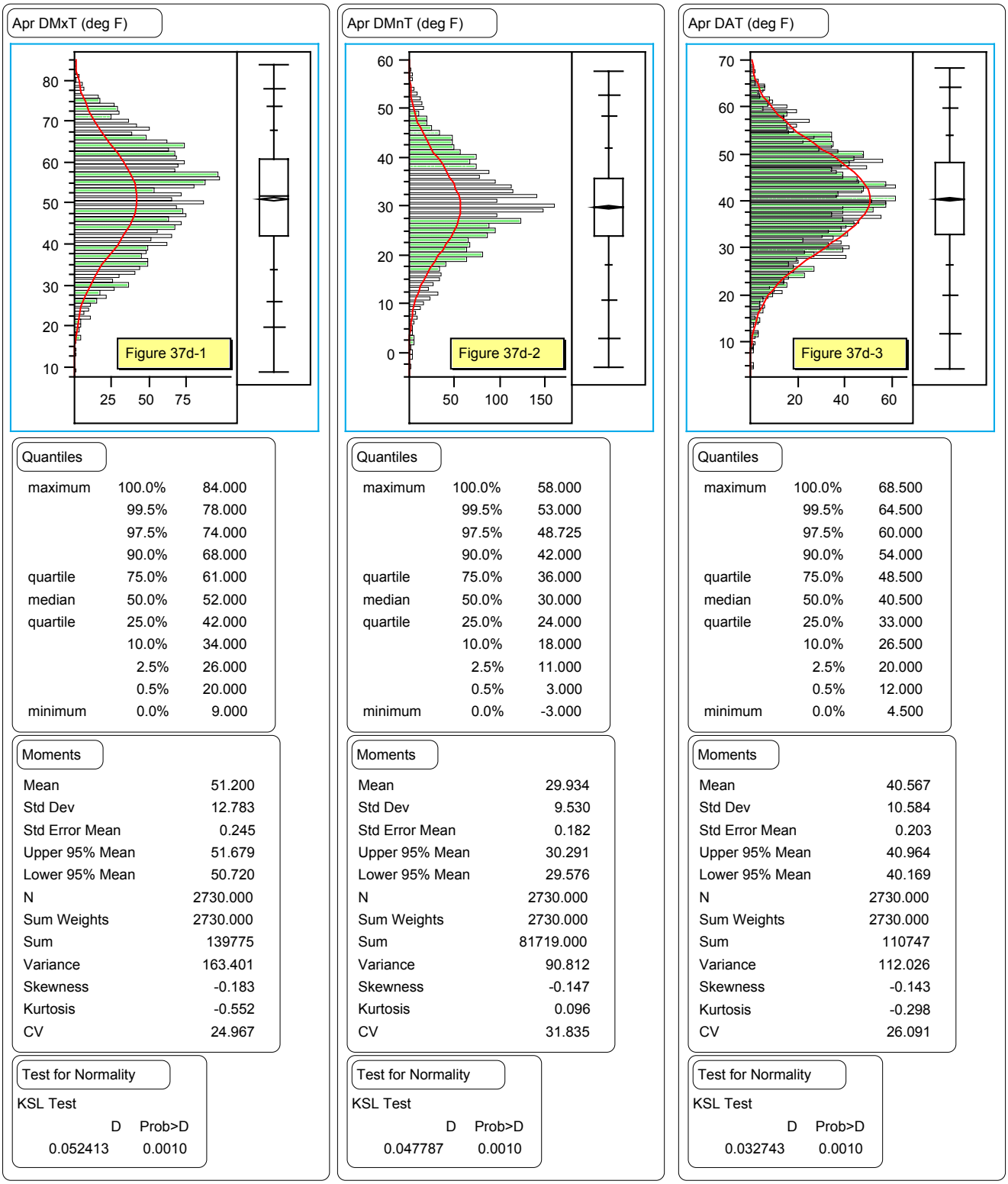


Figure 37d. Distribution of daily April temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

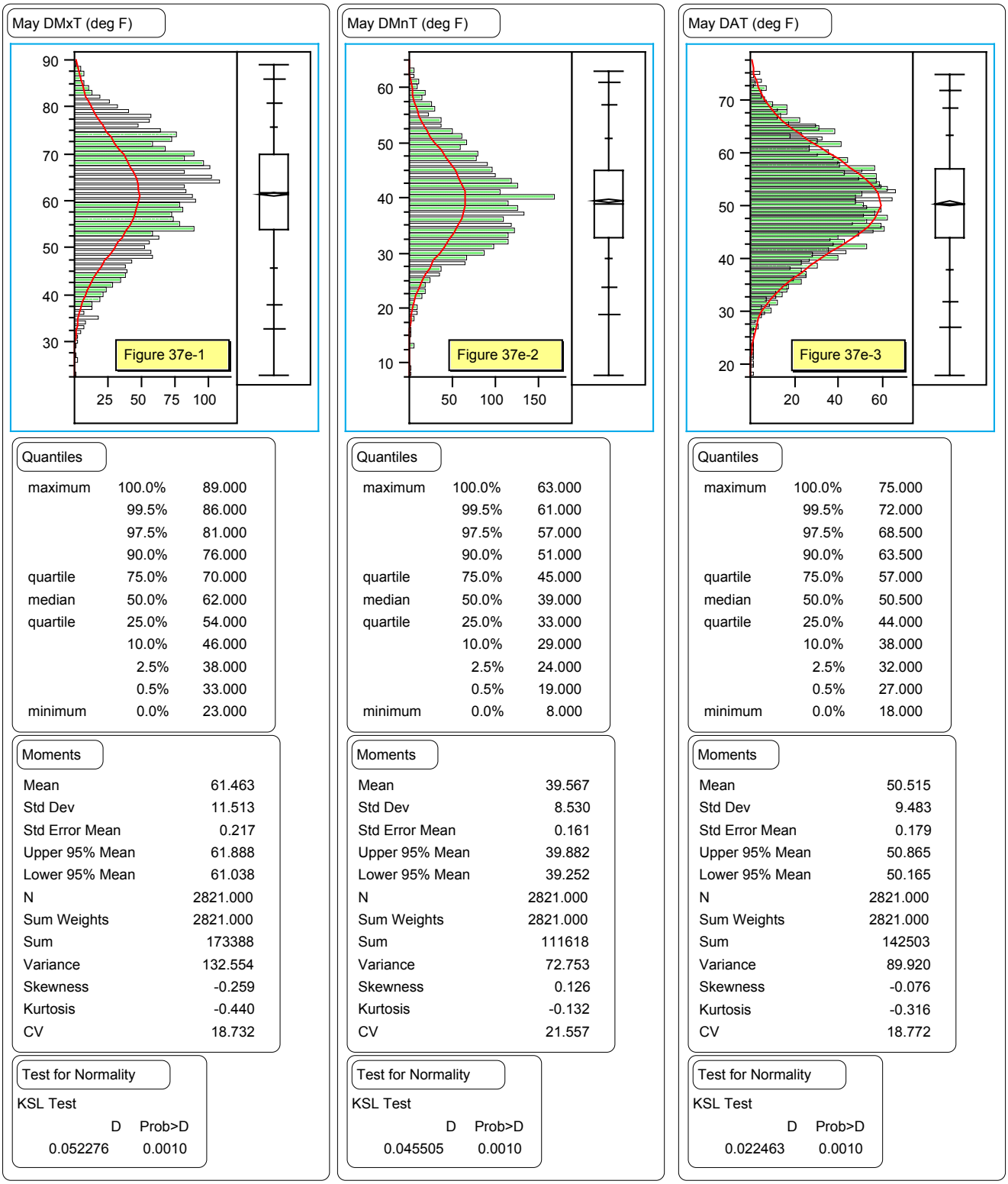


Figure 37e. Distribution of daily May temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

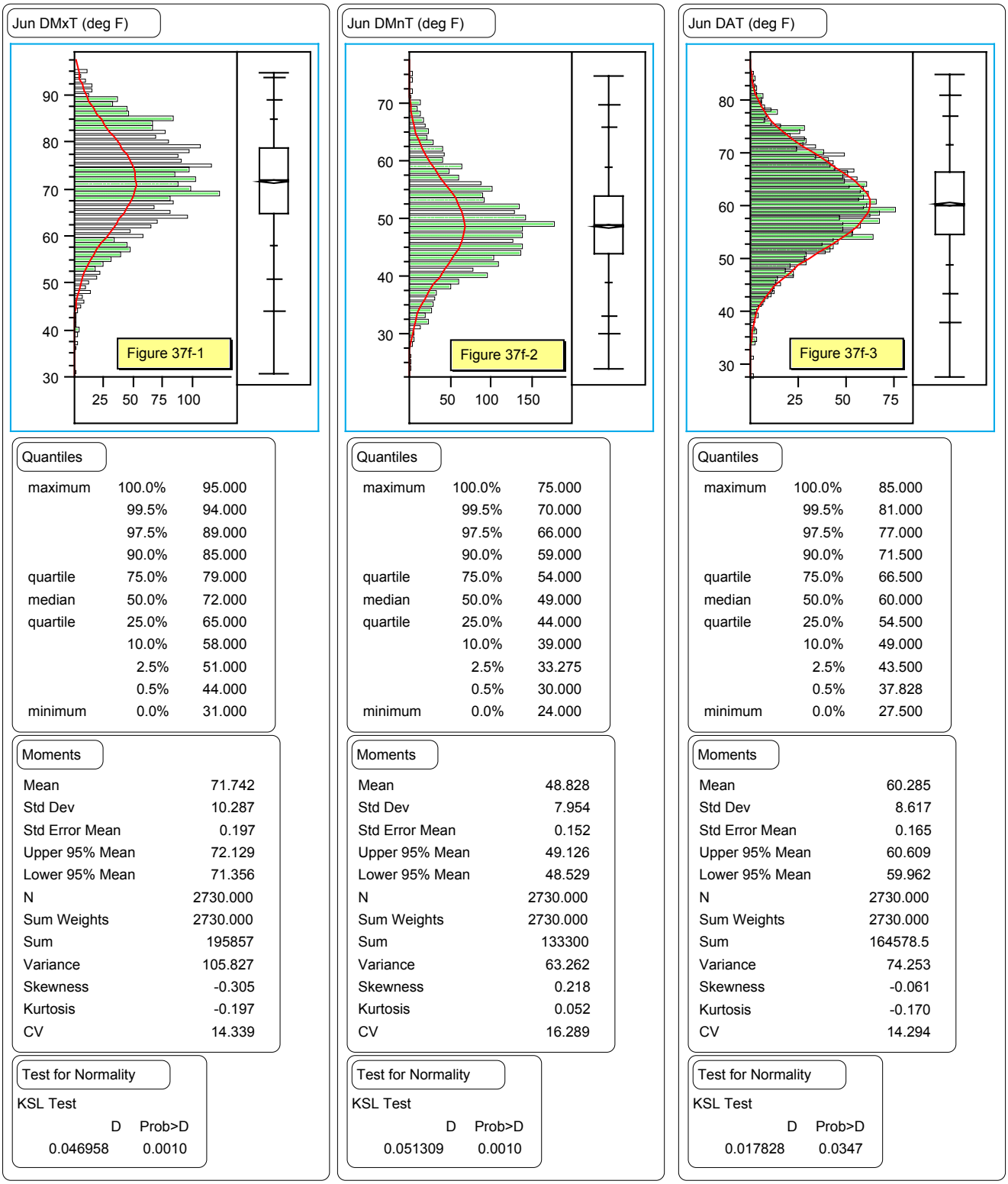


Figure 37f. Distribution of daily June temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

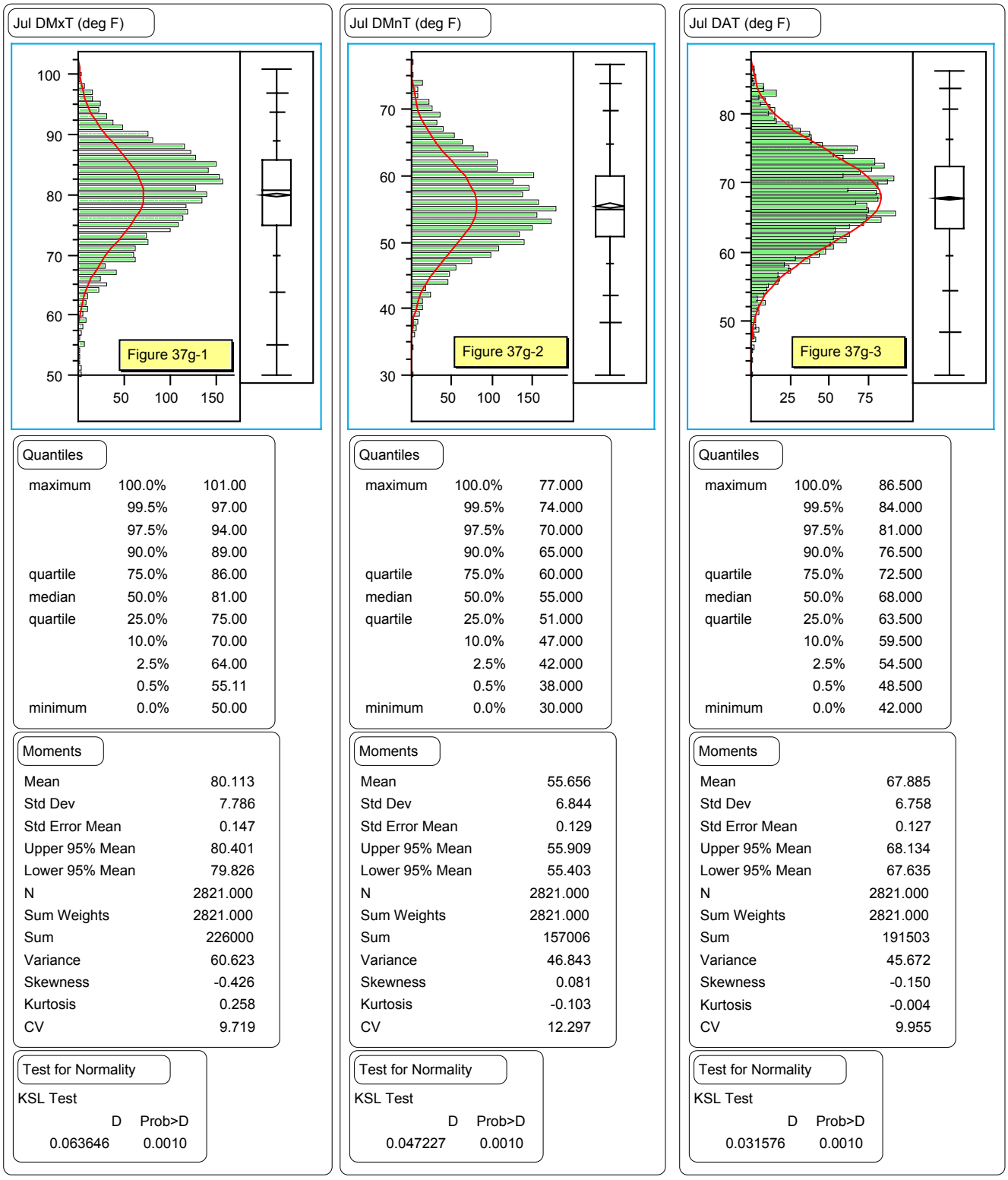


Figure 37g. Distribution of daily July temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

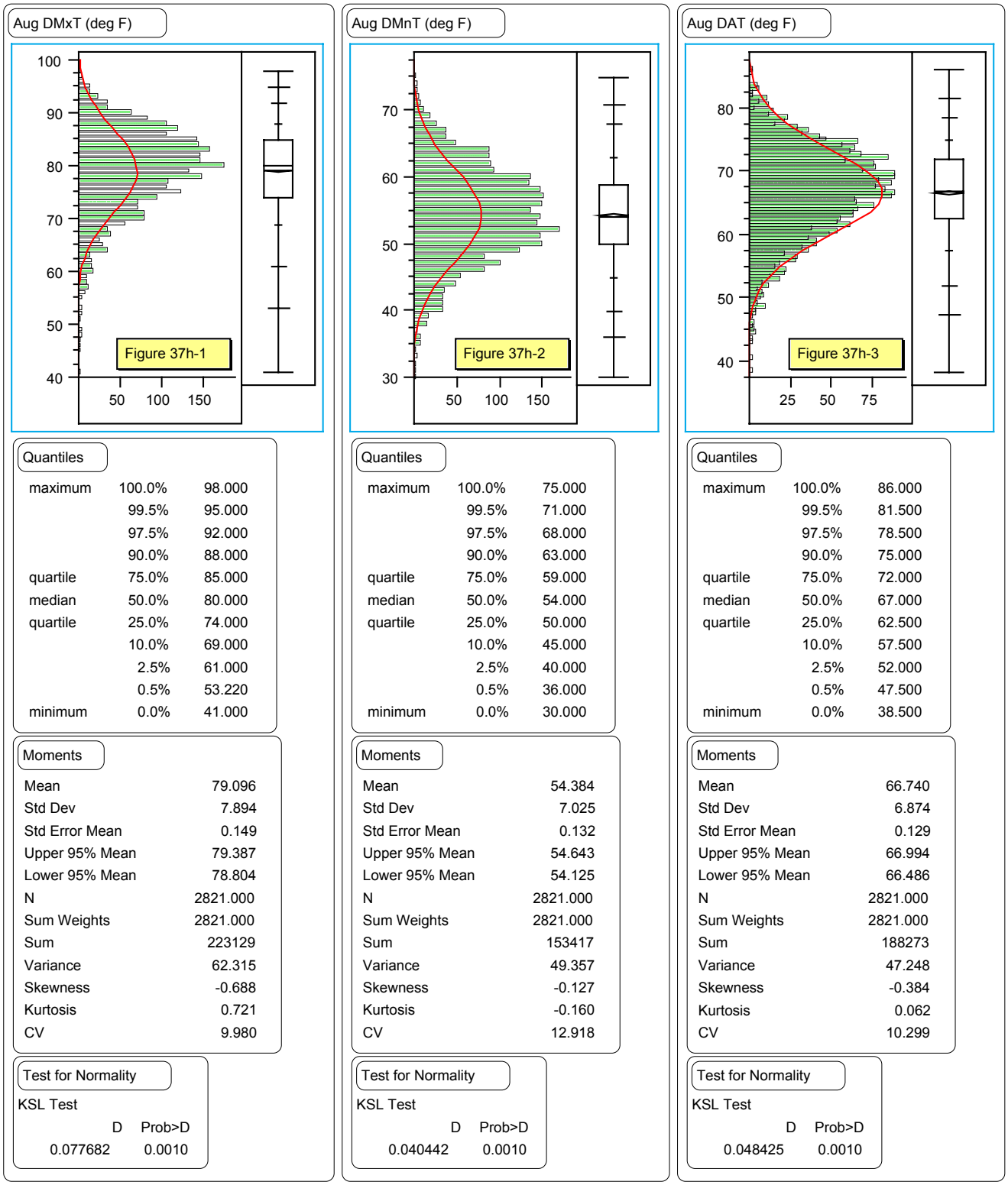


Figure 37h. Distribution of daily August temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

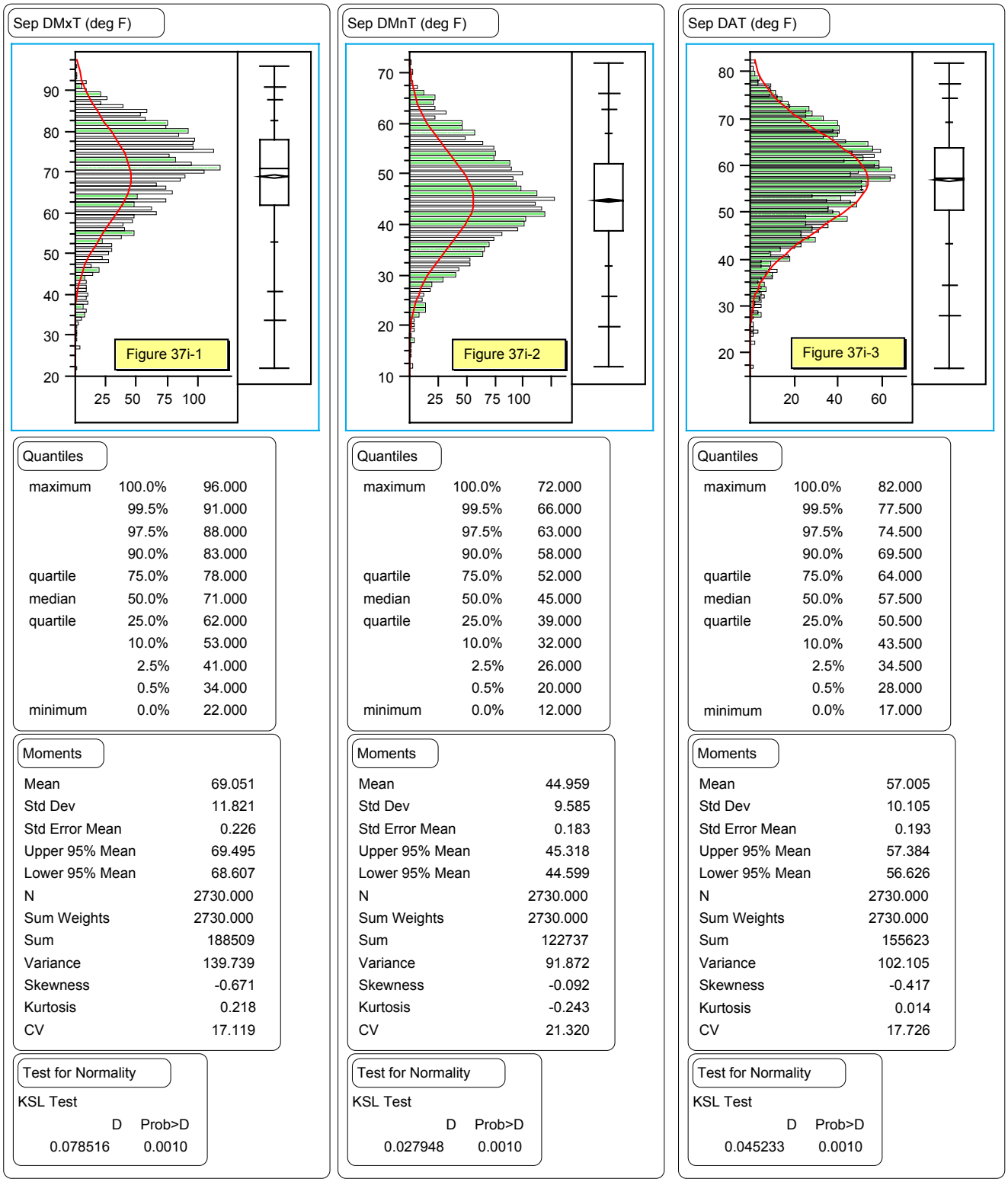


Figure 37i. Distribution of daily September temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

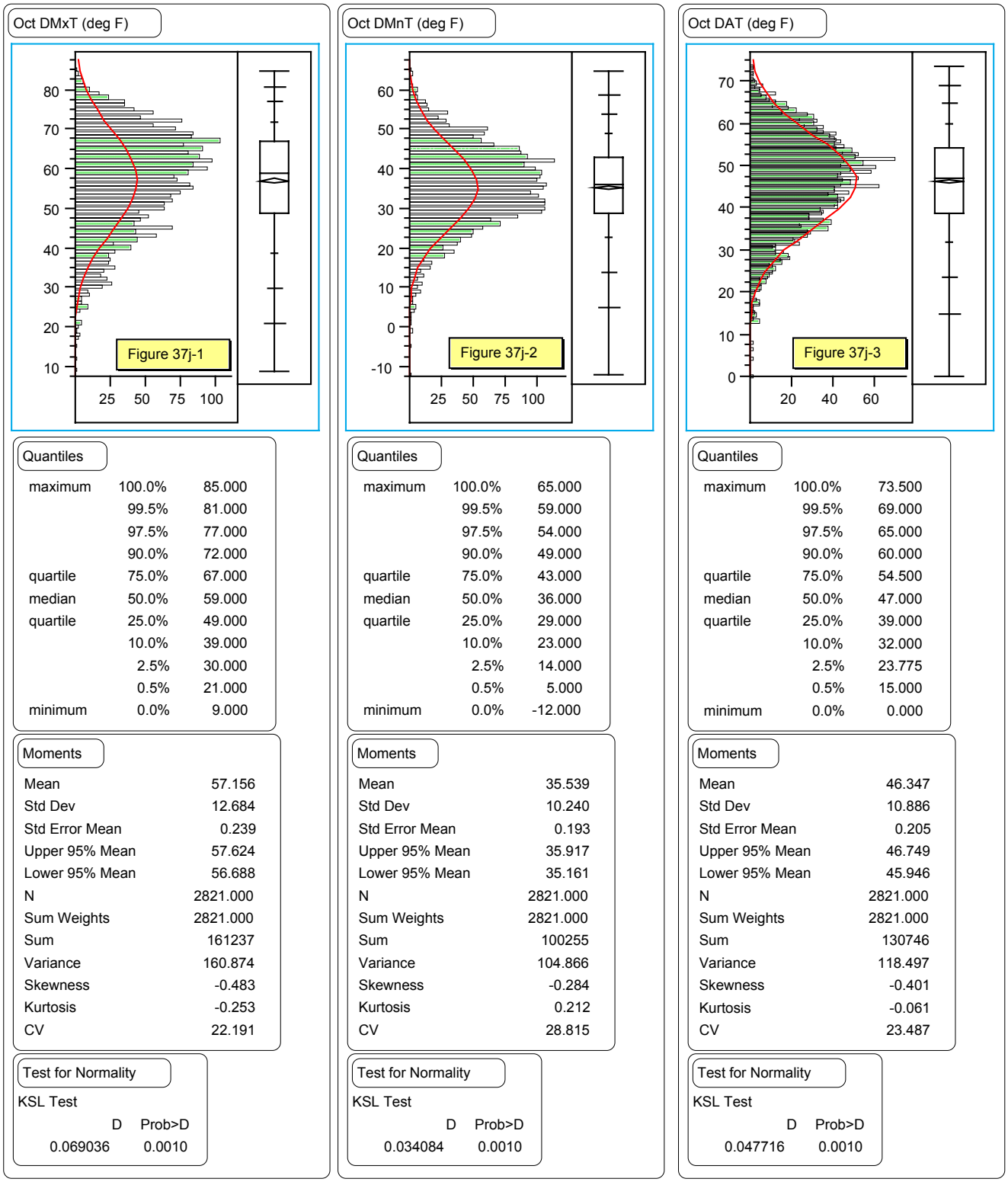


Figure 37j. Distribution of daily October temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

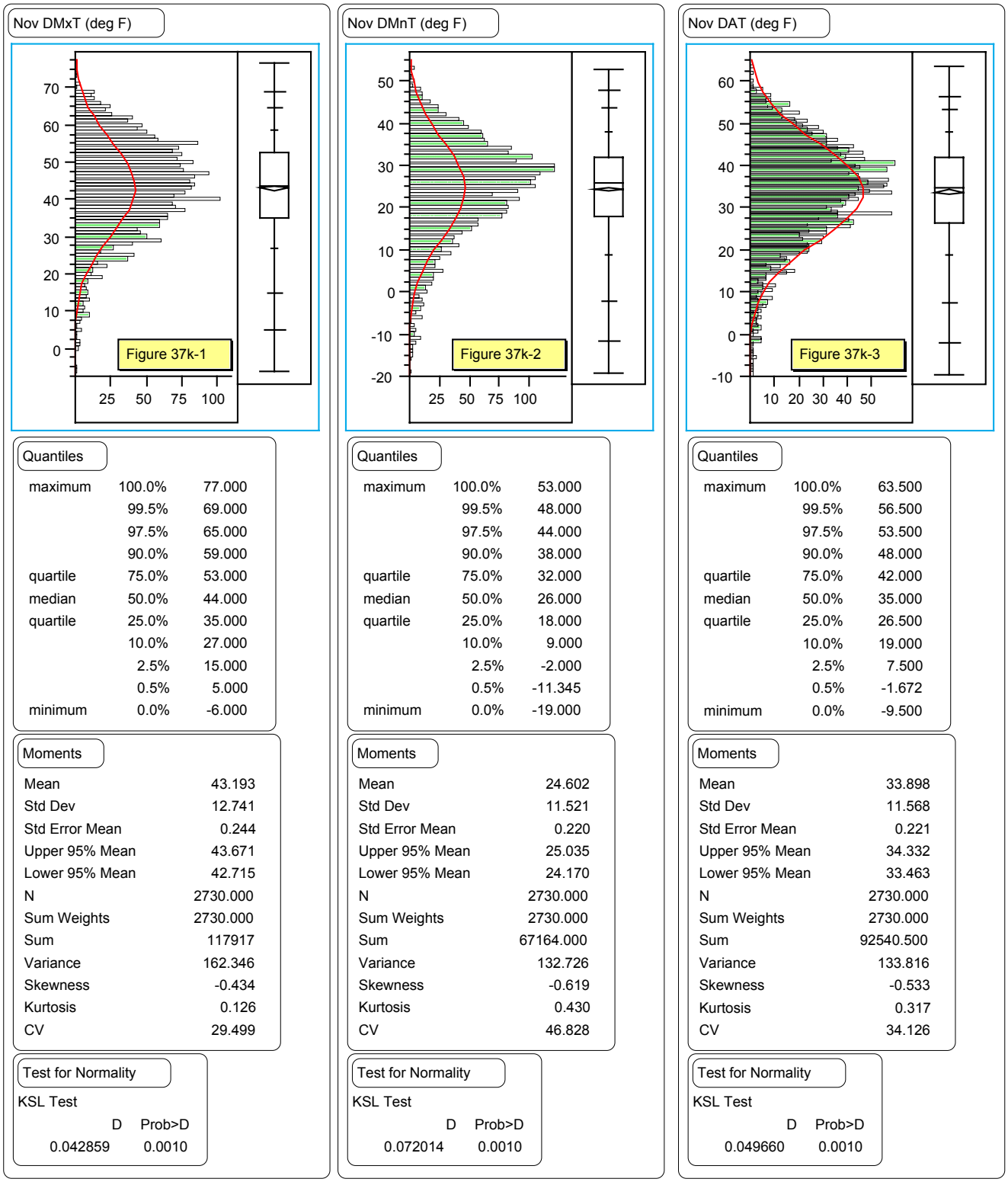


Figure 37k. Distribution of daily November temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

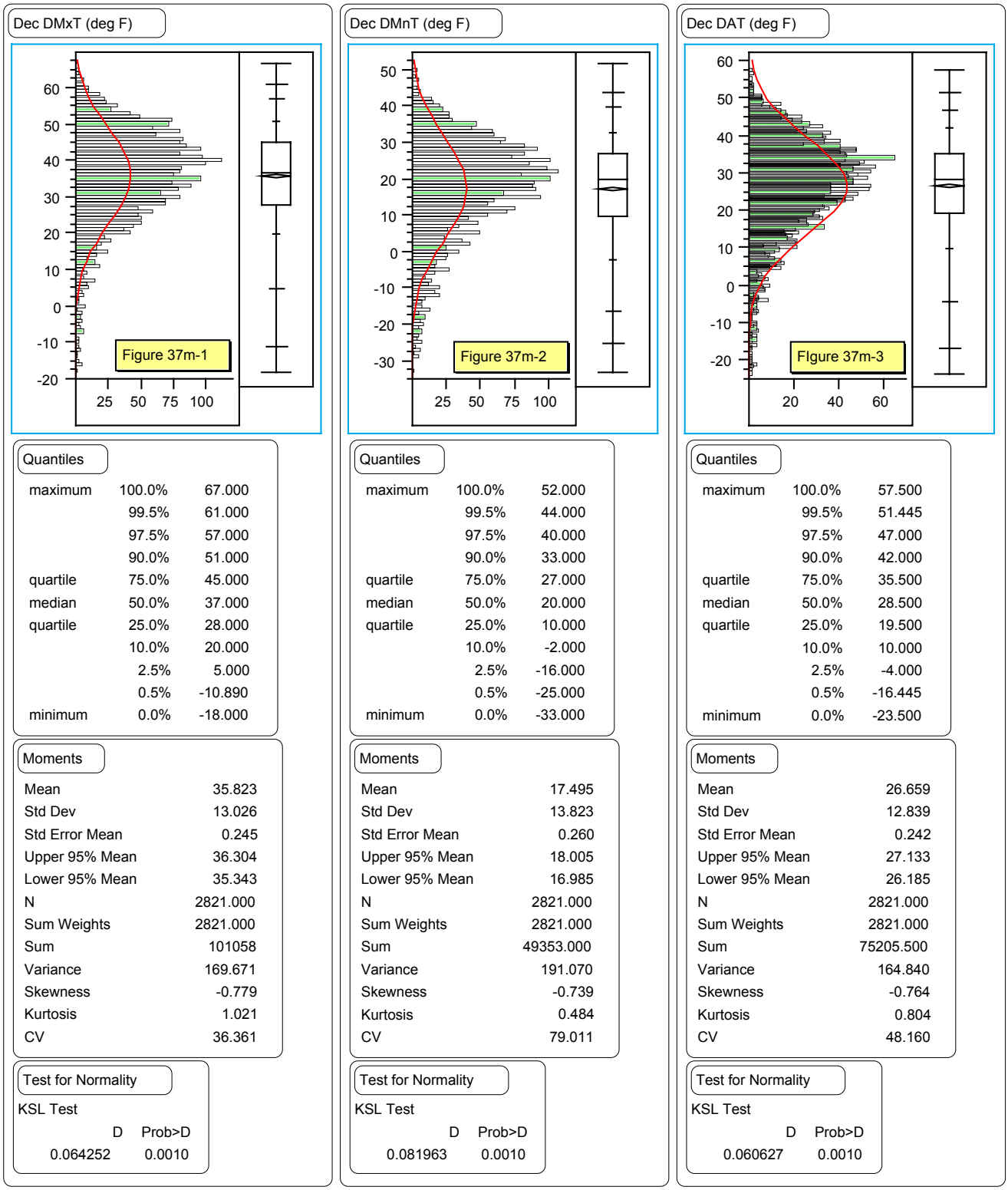


Figure 37m. Distribution of daily December temperatures (^{O}F) for Lead, SD (1909-1999). DMxT = daily maximum temperature, DMnT = daily minimum temperature, and DAT = daily average temperature. The Y axis on each figure = daily temperature (^{O}F) maximum, minimum, or average and the X axis = the number of days (frequency).

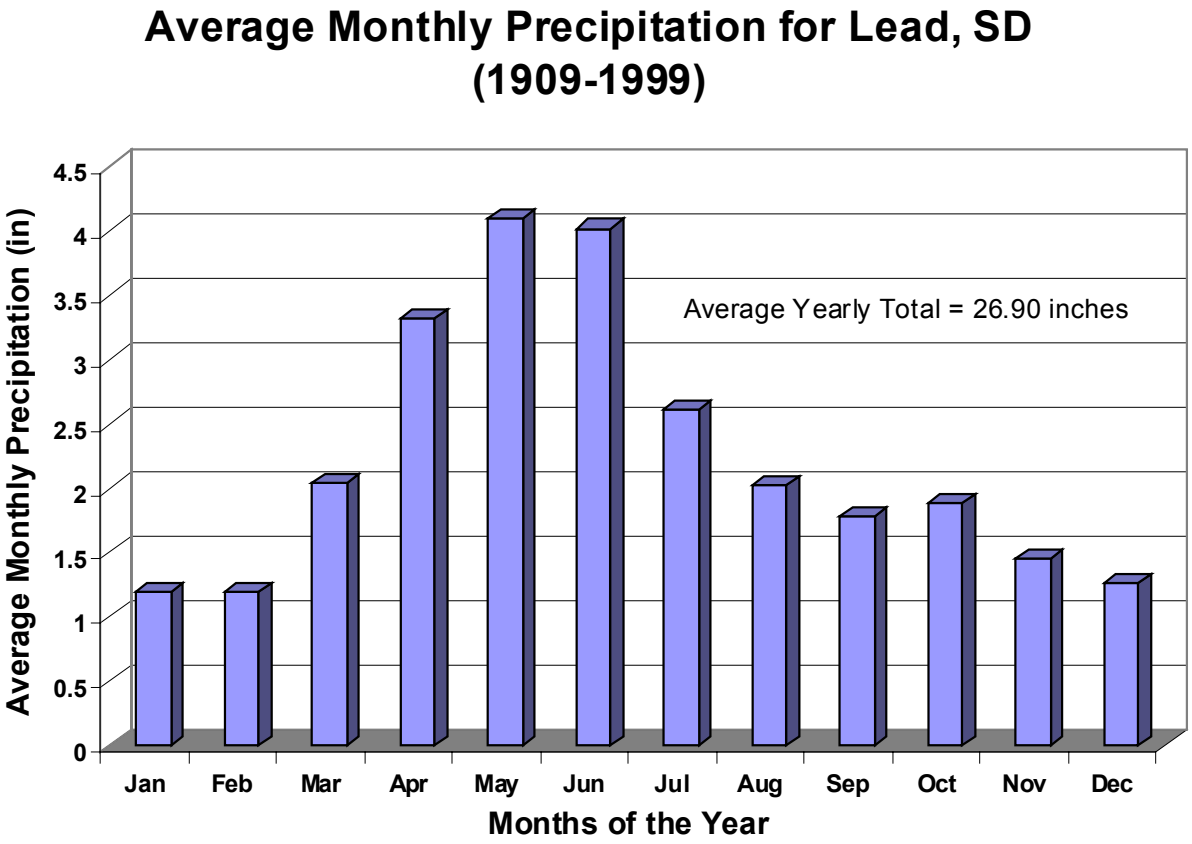


Figure 38. Average monthly precipitation (in.) at Lead, SD for 1909-1999 (daily data from Bender 2000b).

of 0.0 in occurred numerous times during the 91-year study period. Seven months had a no significant trend when 7-day total precipitation (in) and yr were compared. February (Figure 42d), March (Figure 42f), and November (Figure 42x) had significant positive linear trends when 7-day maximum precipitation and year were compared. October and December (Figures 42v and 42z, respectively) had significant curvilinear relationships with low points during the 1940s.

Yearly Seven-Day Maximum Precipitation Totals

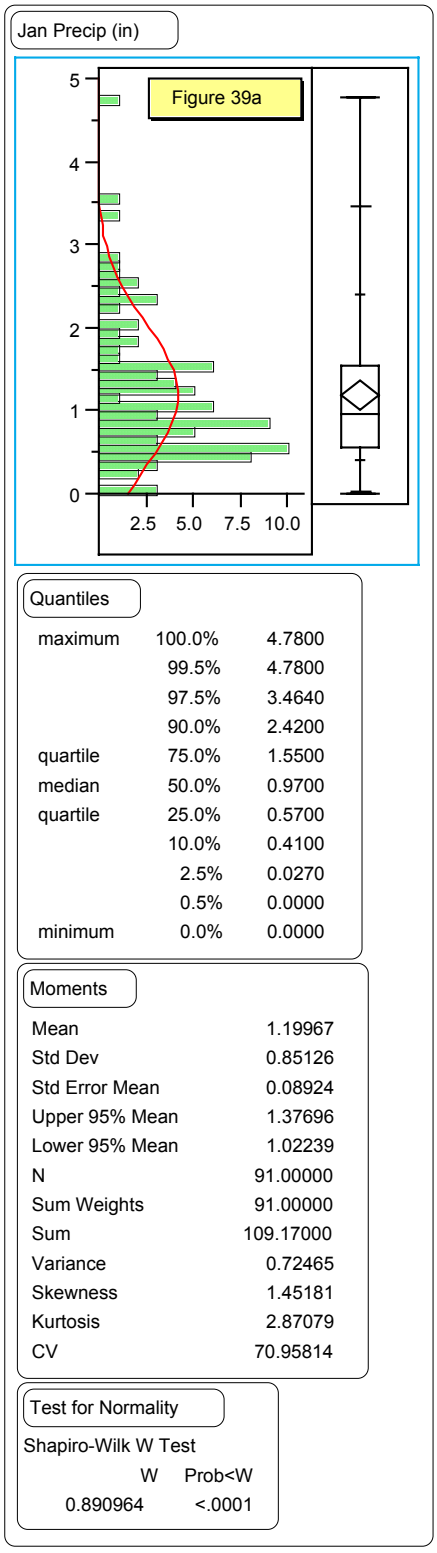
The histogram for seven-day maximum total precipitation (in.) on a yearly basis for the 91-year study period (1909-1999) for Lead, SD is shown in Figure 43a. The distribution was not normal and there was a significant positive linear trend ($p < 0.055$) when seven-day maximum total precipitation was compared to year (Figure 43b).

Seven-Day Precipitation Totals by Month

The distribution (histograms) of the daily 7-day totals precipitation (in.) for each month are shown in Figures 44a-44m for Lead, SD for 1909-1999. None of the histograms were normally distributed.

Maximum Daily Precipitation and Total Monthly Precipitation

The maximum daily precipitation received per month was significantly related (positive linear trend) to the total precipitation received that month (Figure 45).



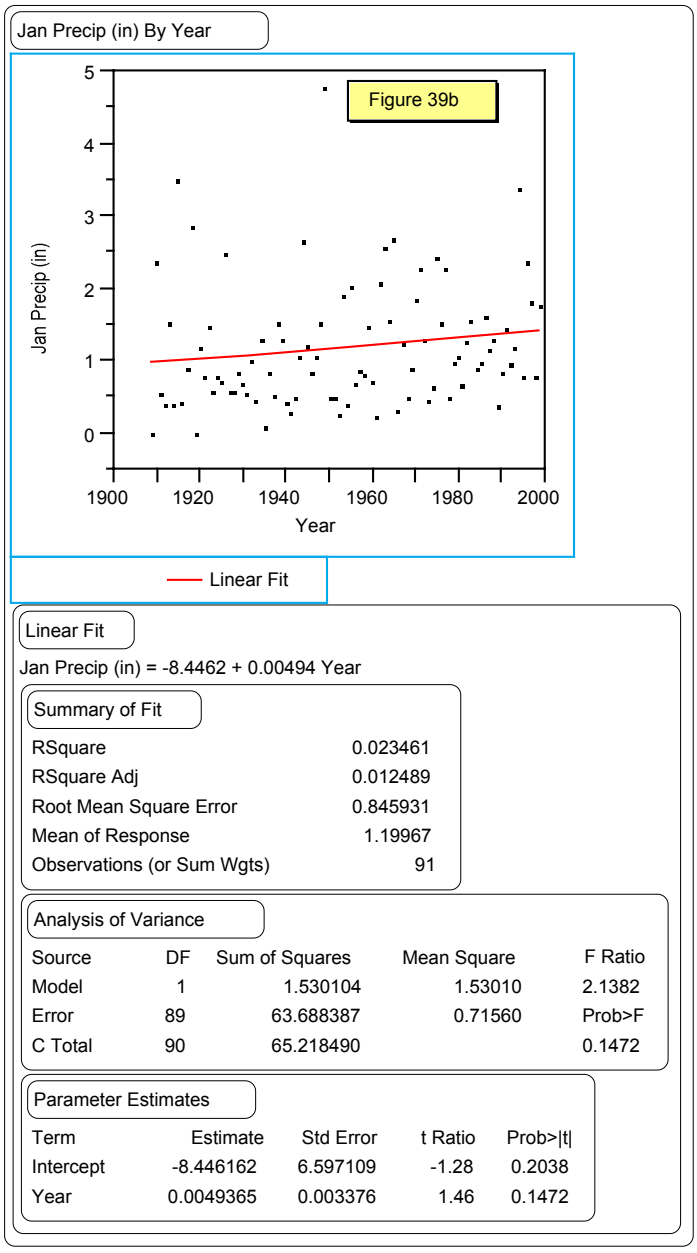


Figure 39. Monthly total precipitation (in) histogram for January (Figure 39a) and distribution through 1909-1999 (Figure 39b) for Lead, SD. On Figure 39a the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

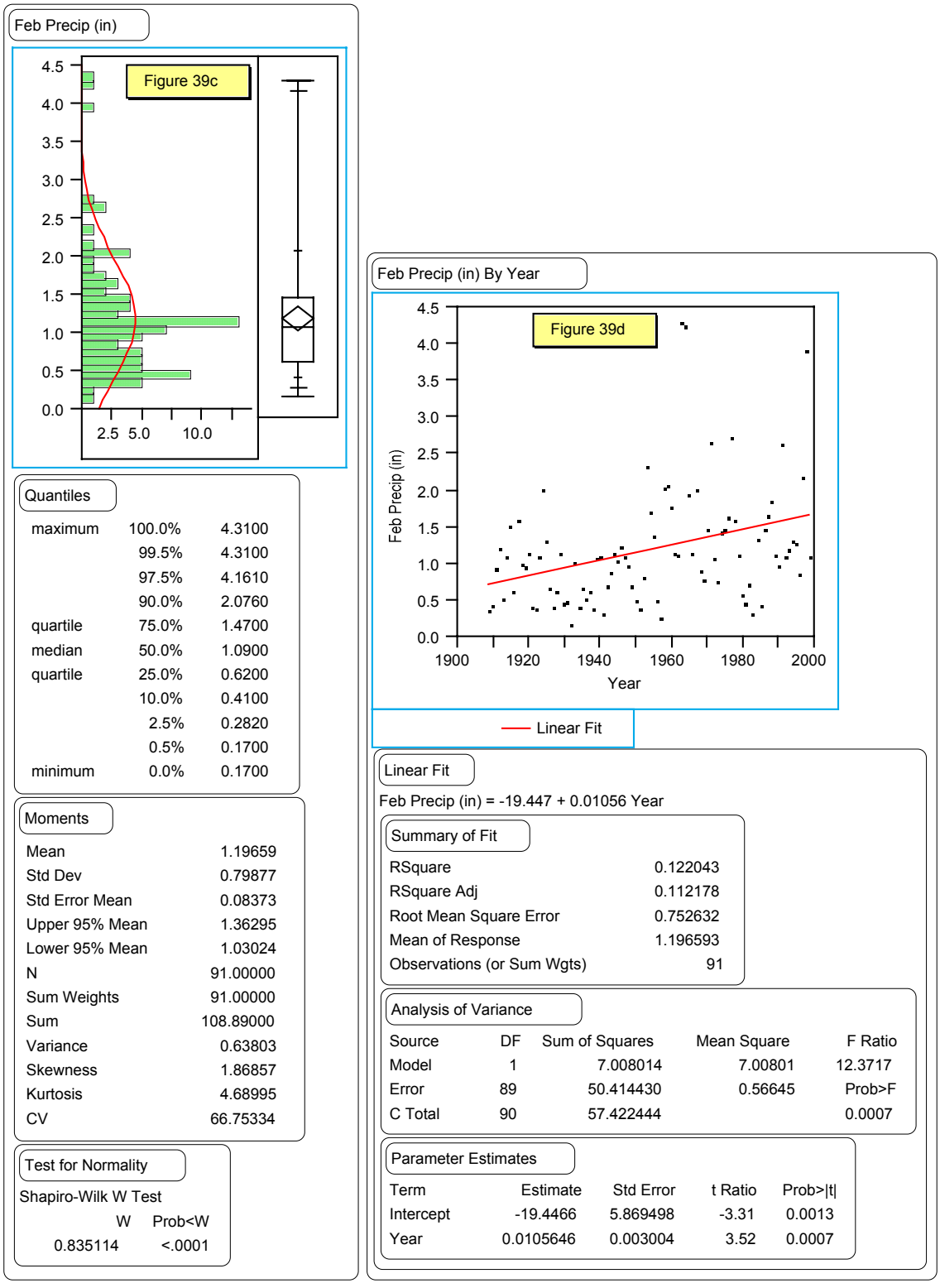


Figure 39. Monthly total precipitation (in) histogram for February (Figure 39c) and distribution through 1909-1999 (Figure 39d) for Lead, SD. On Figure 39c the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

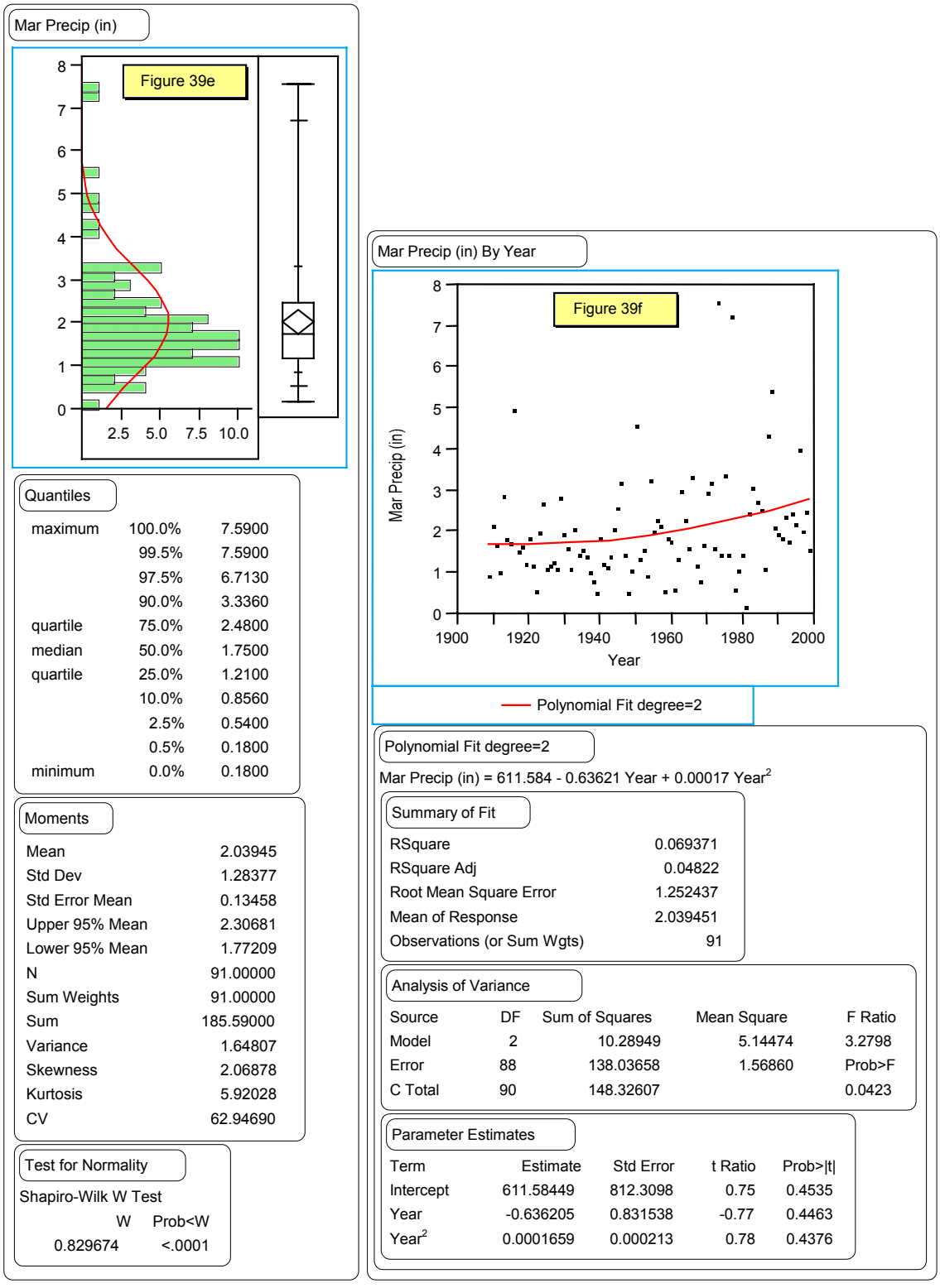


Figure 39. Monthly total precipitation (in) histogram for March (Figure 39e) and distribution through 1909-1999 (Figure 39f) for Lead, SD. On Figure 39e the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

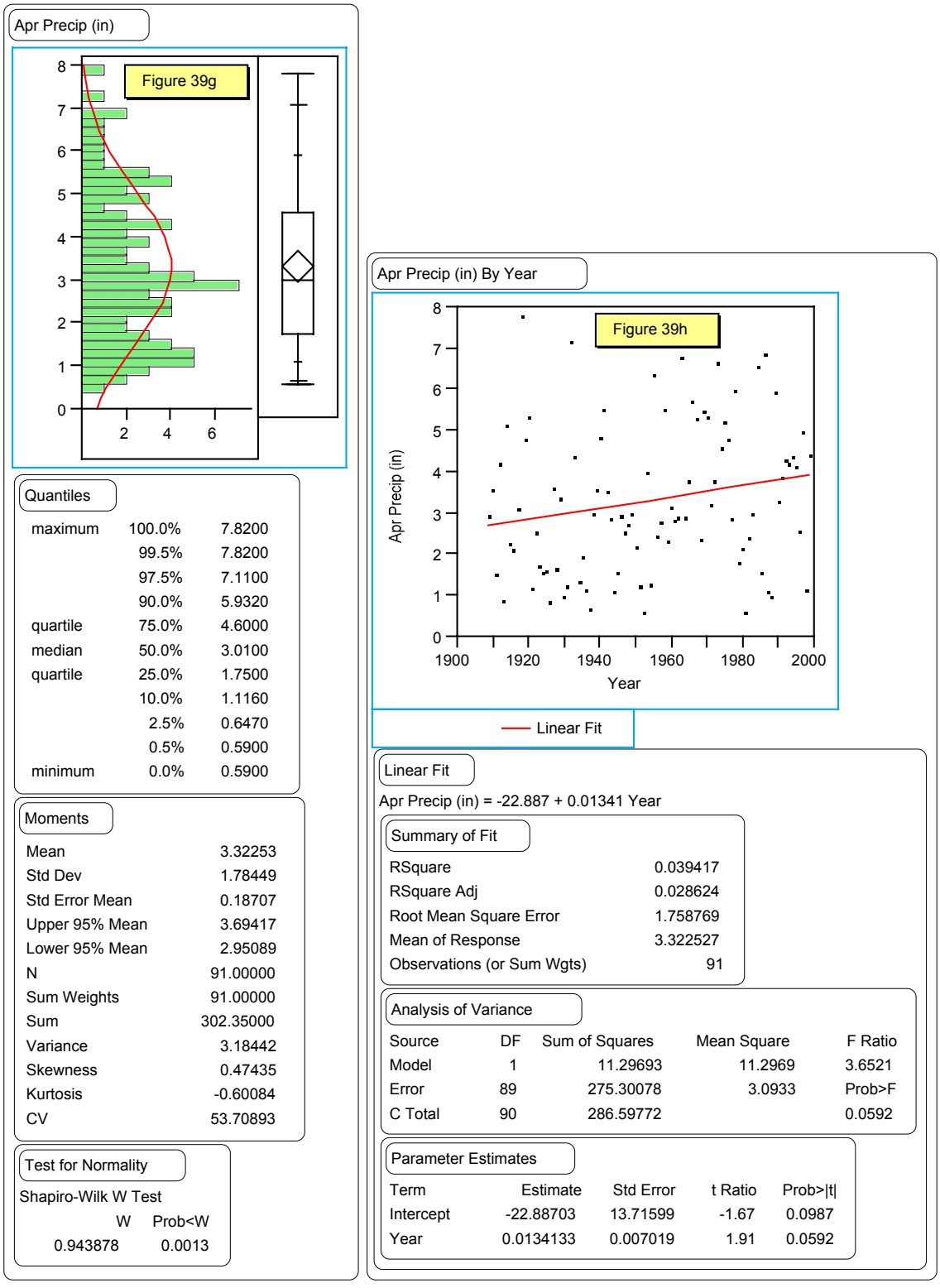


Figure 39. Monthly total precipitation (in) histogram for April (Figure 39g) and distribution through 1909-1999 (Figure 39h) for Lead, SD. On Figure 39g the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

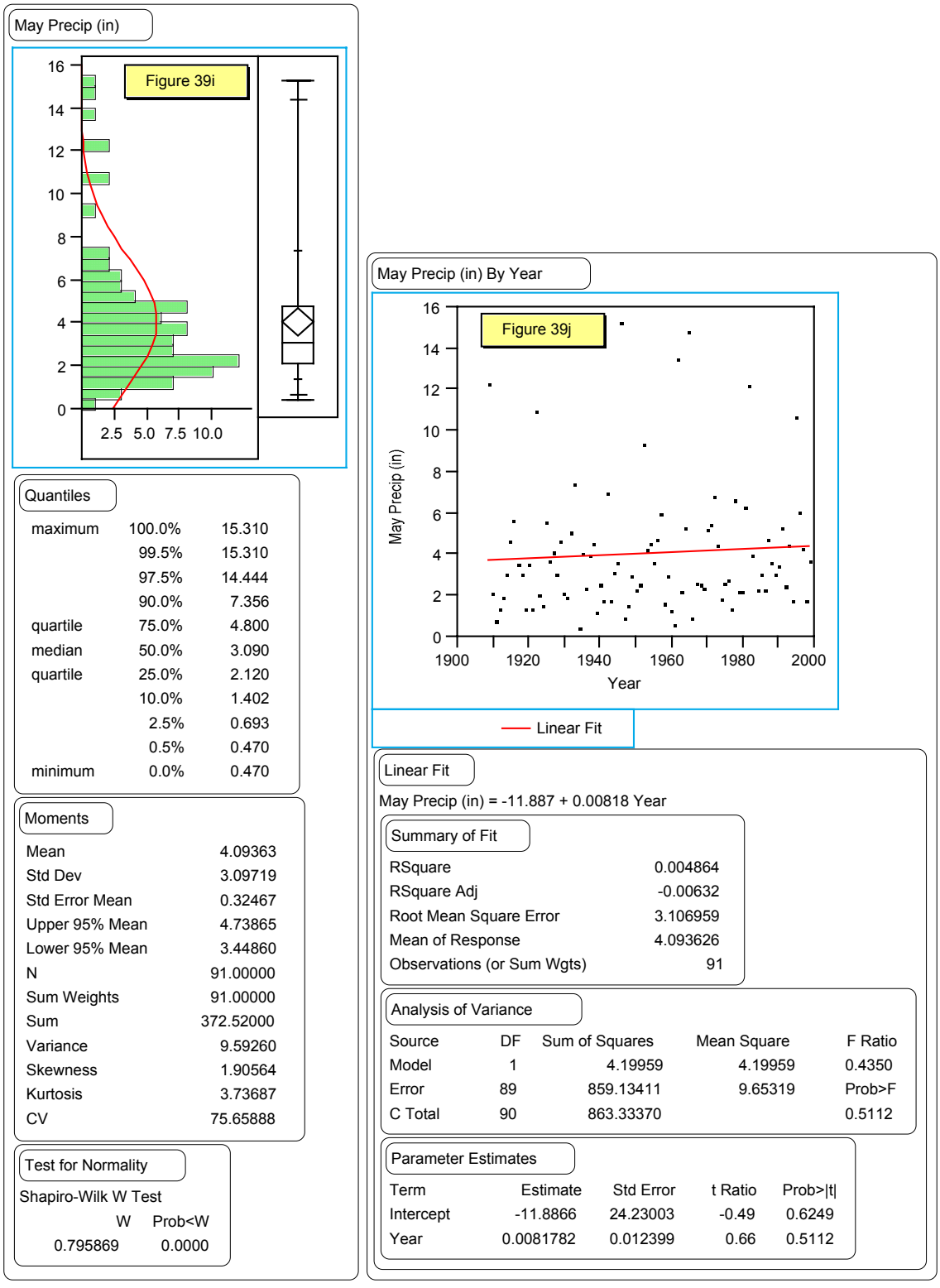
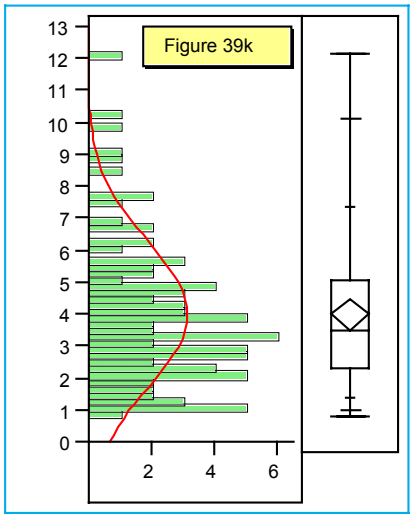


Figure 39. Monthly total precipitation (in) histogram for May (Figure 39i) and distribution through 1909-1999 (Figure 39j) for Lead, SD. On Figure 39i the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

Jun Precip (in)



Quantiles

maximum	100.0%	12.190
	99.5%	12.190
	97.5%	10.146
	90.0%	7.356
quartile	75.0%	5.110
median	50.0%	3.490
quartile	25.0%	2.360
	10.0%	1.396
	2.5%	1.030
	0.5%	0.810
minimum	0.0%	0.810

Moments

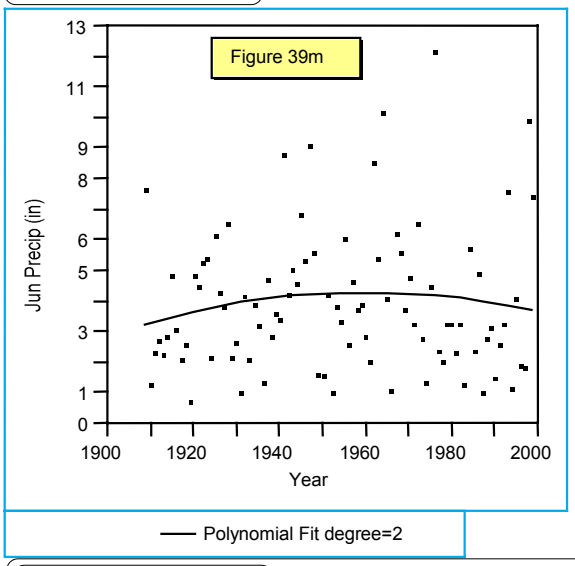
Mean	4.01626
Std Dev	2.28738
Std Error Mean	0.23978
Upper 95% Mean	4.49264
Lower 95% Mean	3.53989
N	91.00000
Sum Weights	91.00000
Sum	365.48000
Variance	5.23210
Skewness	1.16036
Kurtosis	1.49089
CV	56.95289

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.913907	<.0001

Jun Precip (in) By Year



Polynomial Fit degree=2

Jun Precip (in) = -1548.8 + 1.58479 Year - 0.0004 Year^2

Summary of Fit

RSquare	0.015172
RSquare Adj	-0.00721
Root Mean Square Error	2.295609
Mean of Response	4.016264
Observations (or Sum Wgts)	91

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	7.14452	3.57226	0.6779
Error	88	463.74441	5.26982	Prob>F
C Total	90	470.88893		0.5103

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-1548.788	1488.895	-1.04	0.3011
Year	1.5847872	1.524138	1.04	0.3013
Year^2	-0.000404	0.00039	-1.04	0.3028

Figure 39. Monthly total precipitation (in) histogram for June (Figure 39k) and distribution through 1909-1999 (Figure 39m) for Lead, SD. On Figure 39k the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

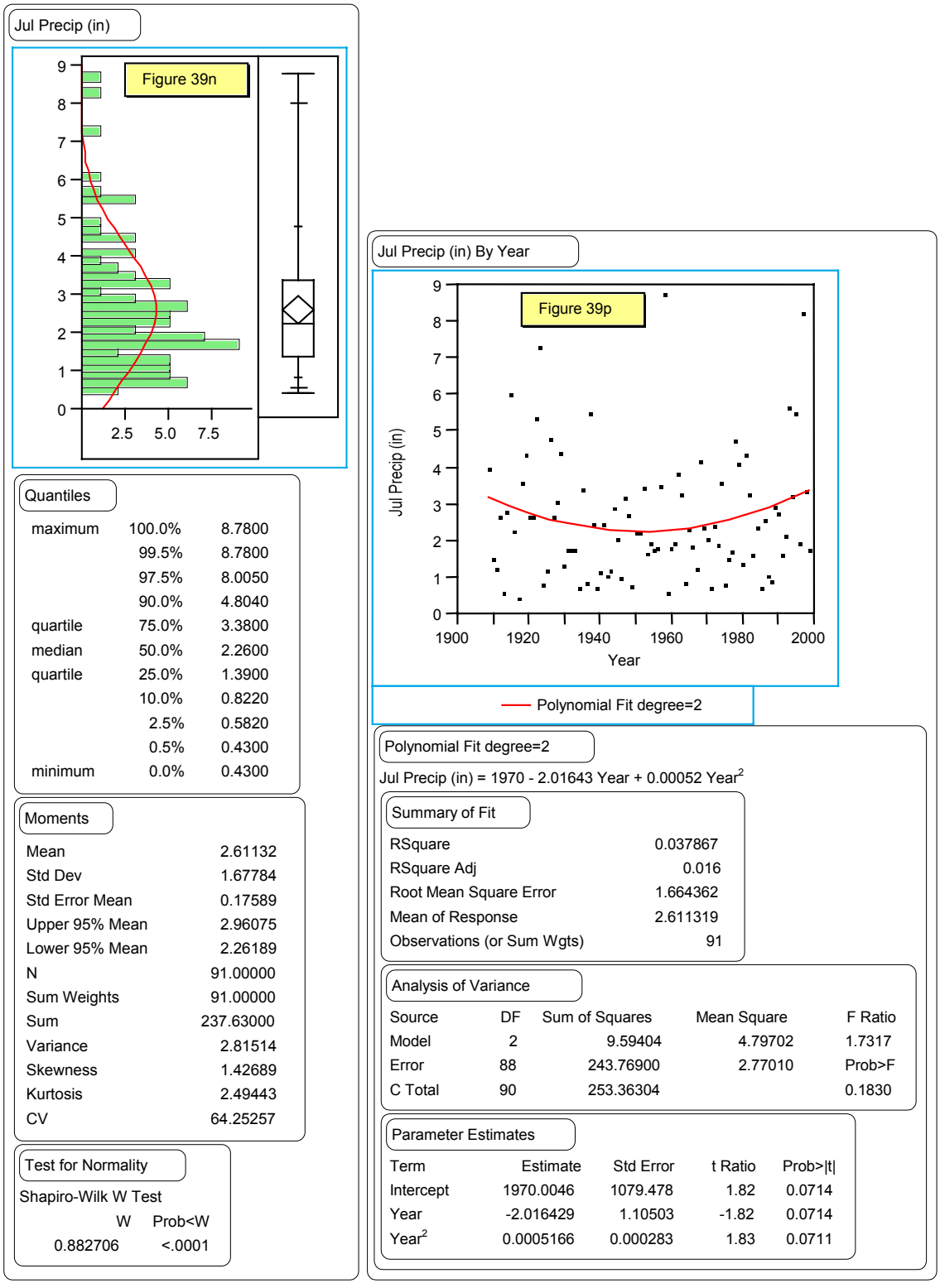
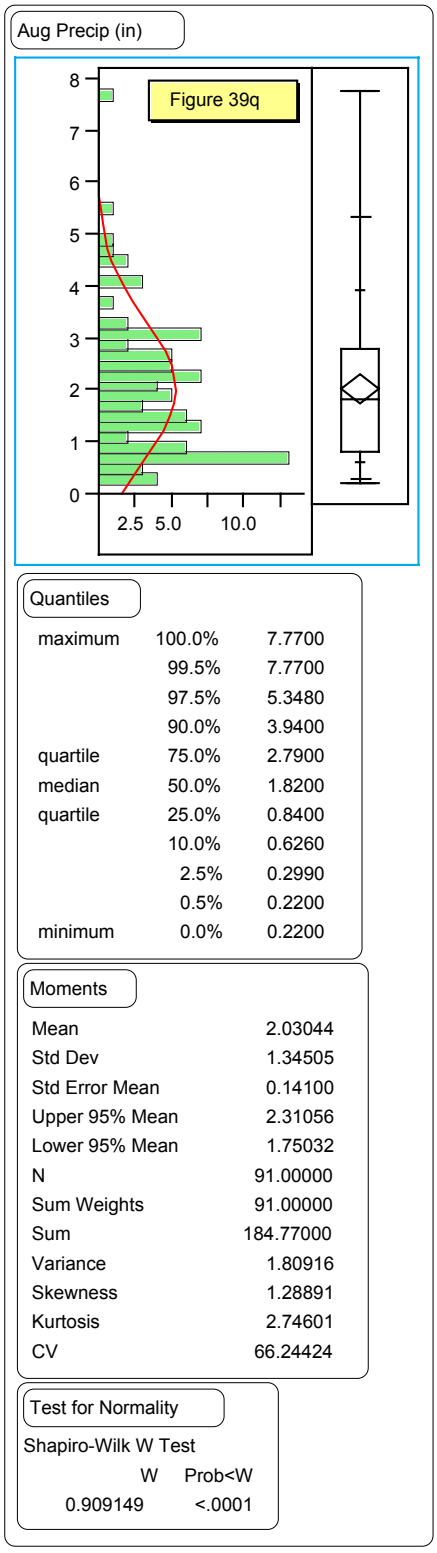


Figure 39. Monthly total precipitation (in) histogram for July (Figure 39n) and distribution through 1909-1999 (Figure 39p) for Lead, SD. On Figure 39n the Y axis = total precipitation (in) and the X axis = the number of years (frequency).



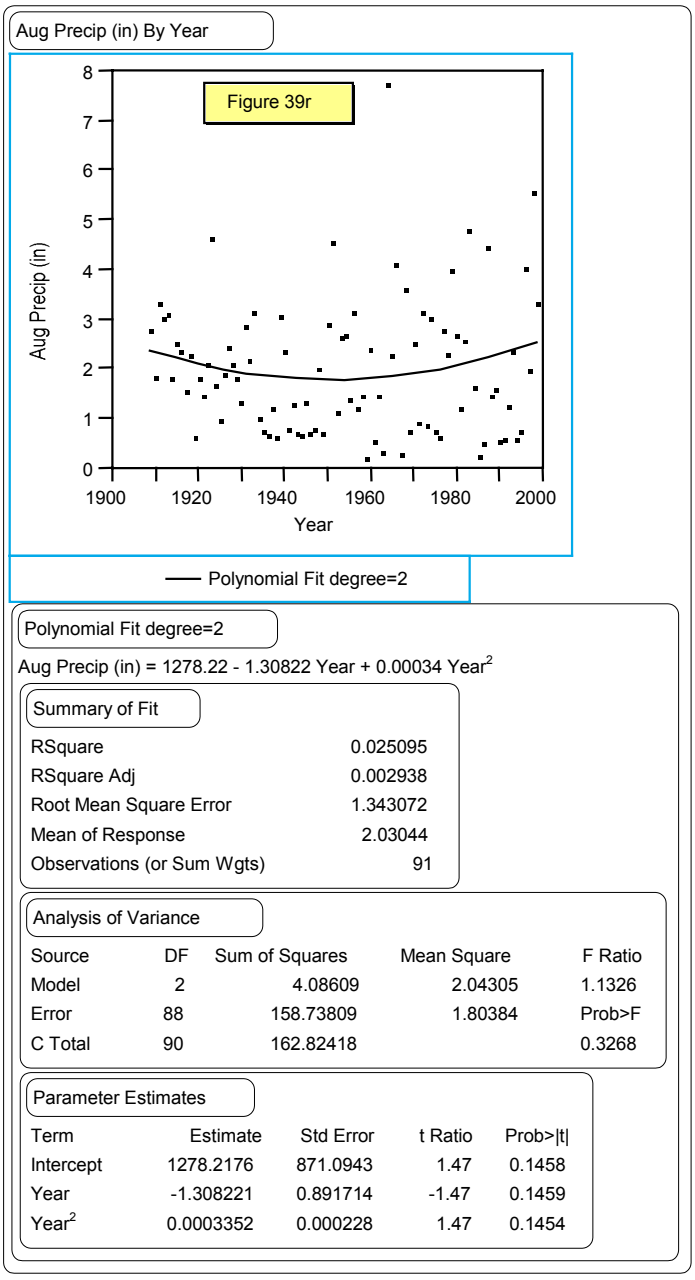


Figure 39. Monthly total precipitation (in) histogram for August (Figure 39q) and distribution through 1909-1999 (Figure 39r) for Lead, SD. On Figure 39q the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

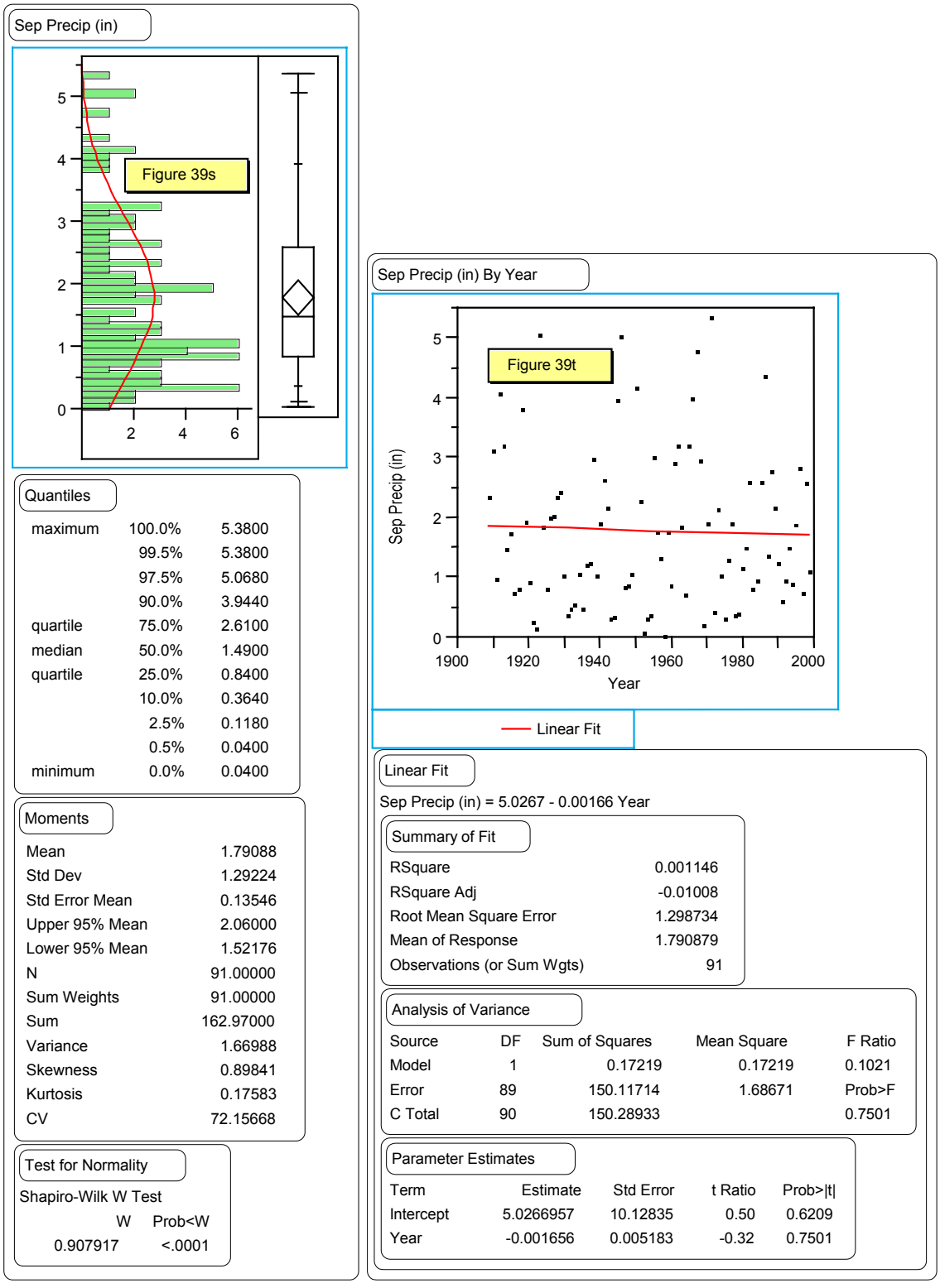


Figure 39. Monthly total precipitation (in) histogram for September (Figure 39s) and distribution through 1909-1999 (Figure 39t) for Lead, SD. On Figure 39s the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

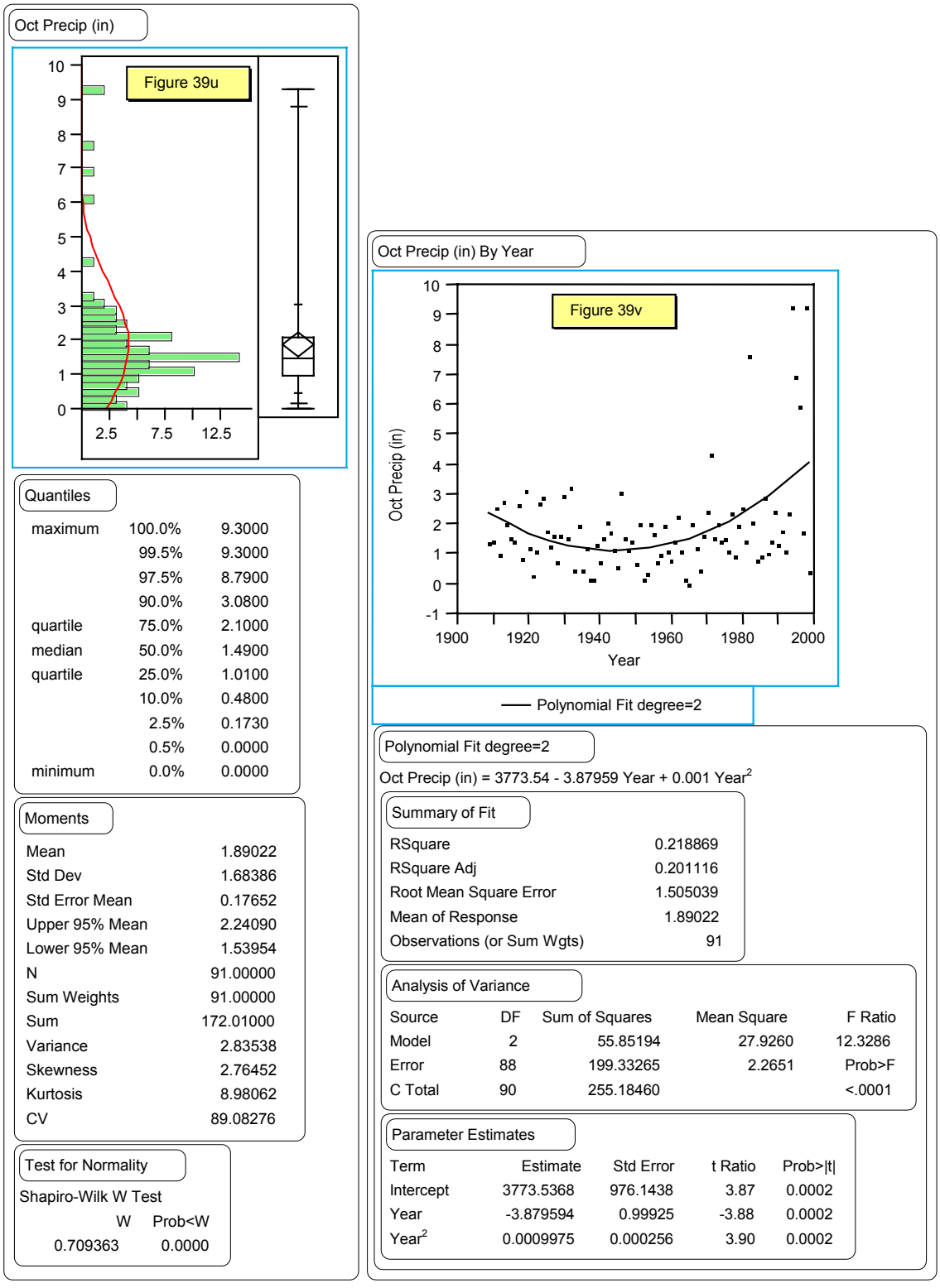


Figure 39. Monthly total precipitation (in) histogram for October (Figure 39u) and distribution through 1909-1999 (Figure 39v) for Lead, SD. On Figure 39u the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

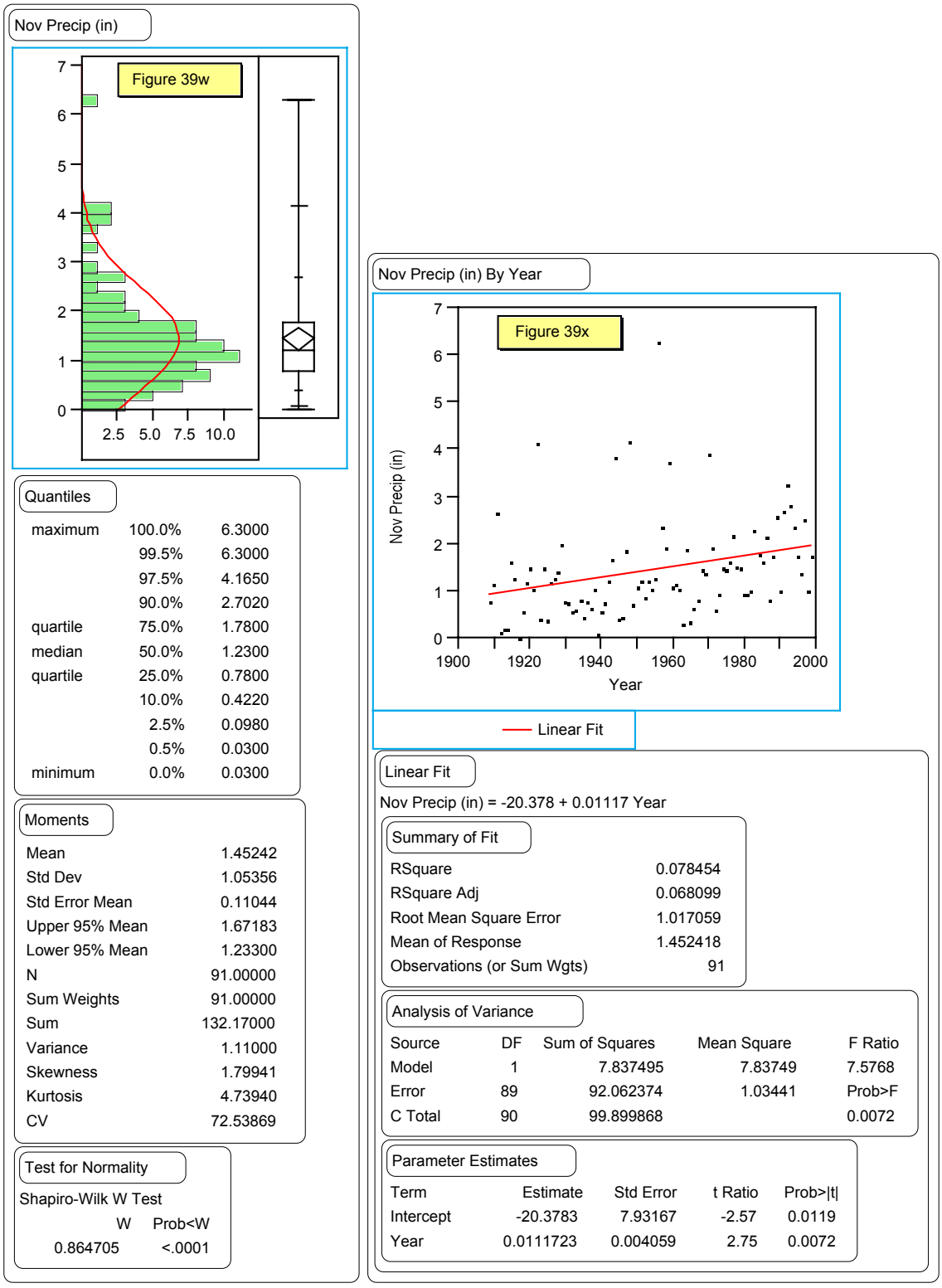


Figure 39. Monthly total precipitation (in) histogram for November (Figure 39w) and distribution through 1909-1999 (Figure 39x) for Lead, SD. On Figure 39w the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

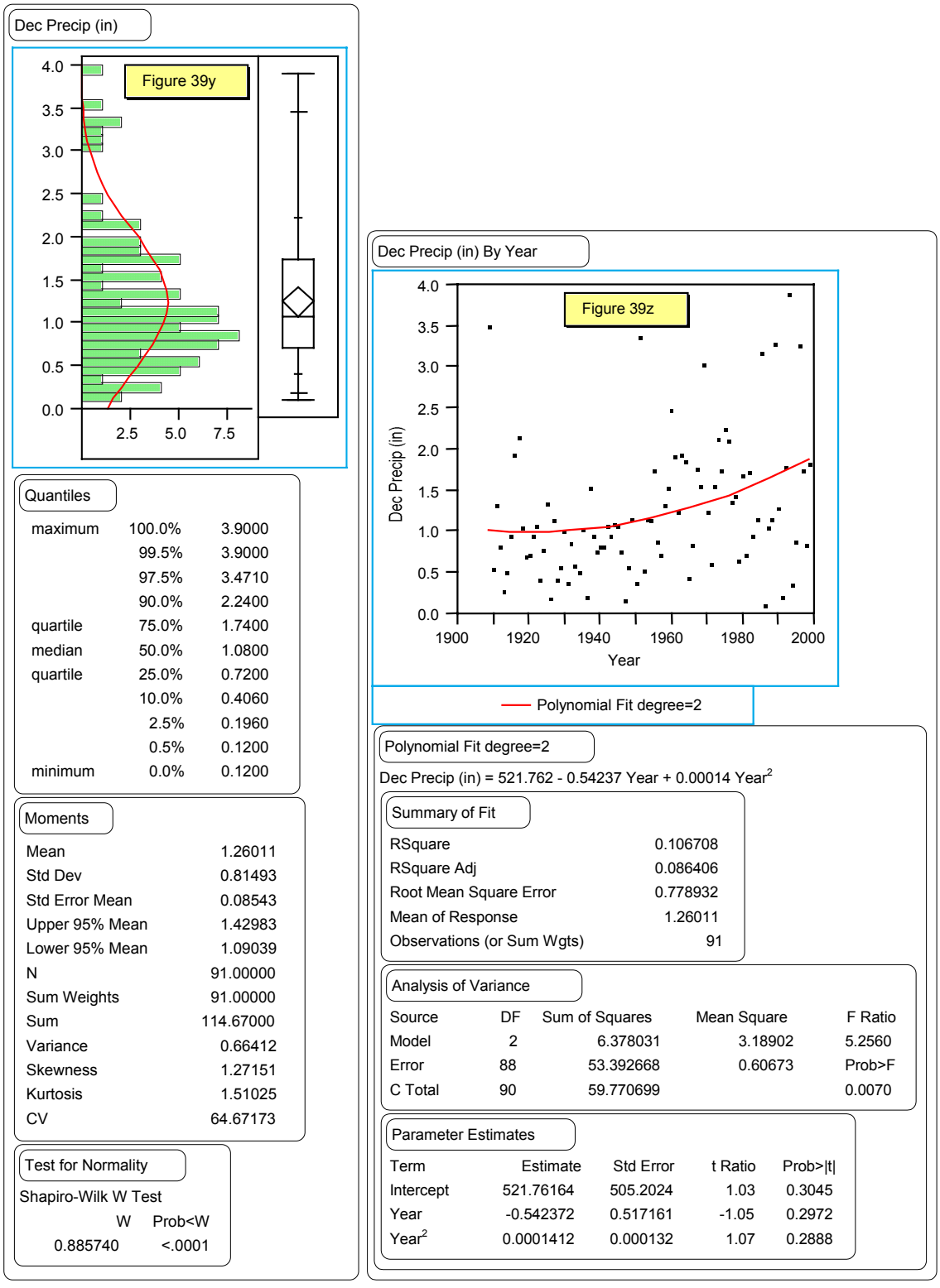
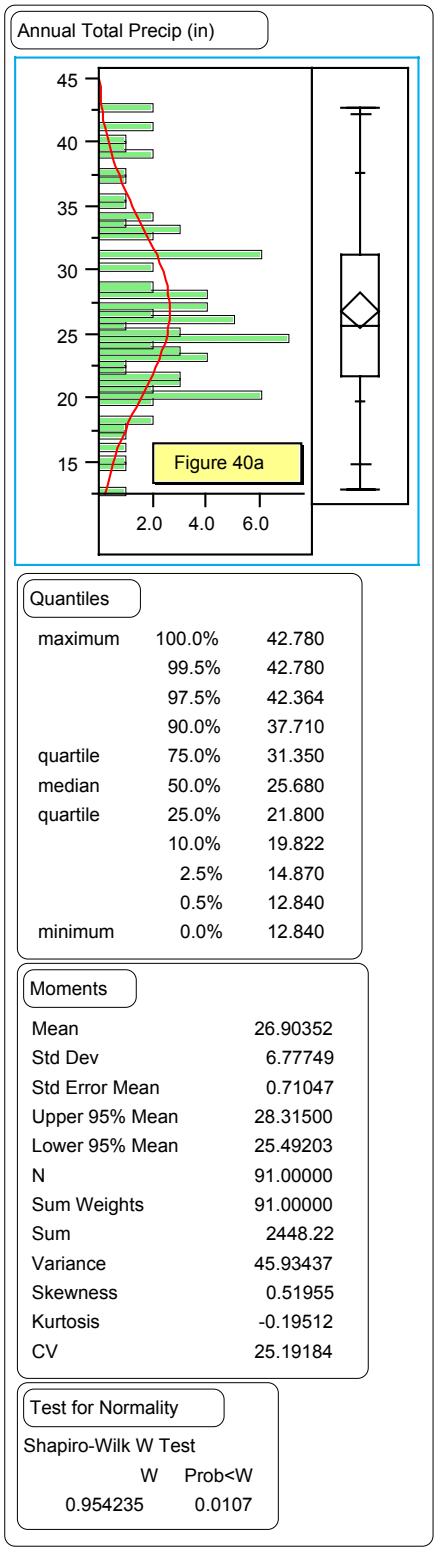


Figure 39. Monthly total precipitation (in) histogram for December (Figure 39y) and distribution through 1909-1999 (Figure 39z) for Lead, SD. On Figure 39y the Y axis = total precipitation (in) and the X axis = the number of years (frequency).



Quantiles

maximum	100.0%	42.780
	99.5%	42.780
	97.5%	42.364
	90.0%	37.710
quartile	75.0%	31.350
median	50.0%	25.680
quartile	25.0%	21.800
	10.0%	19.822
	2.5%	14.870
	0.5%	12.840
minimum	0.0%	12.840

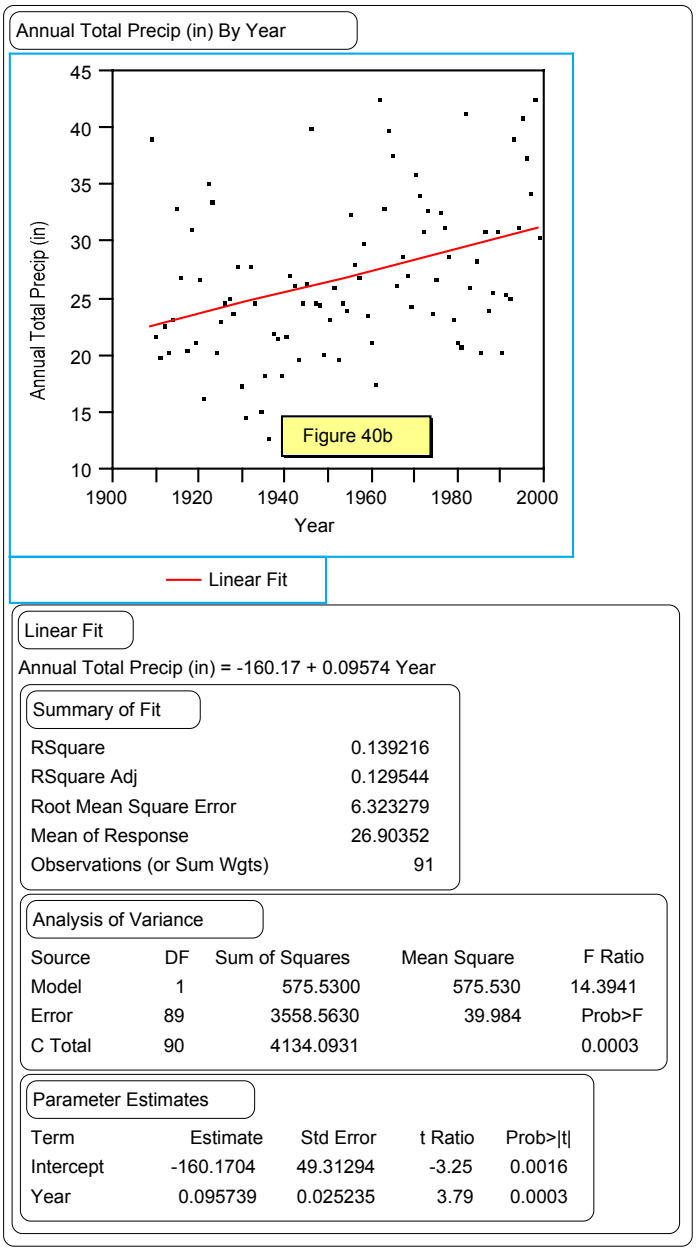
Moments

Mean	26.90352
Std Dev	6.77749
Std Error Mean	0.71047
Upper 95% Mean	28.31500
Lower 95% Mean	25.49203
N	91.00000
Sum Weights	91.00000
Sum	2448.22
Variance	45.93437
Skewness	0.51955
Kurtosis	-0.19512
CV	25.19184

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.954235	0.0107



Linear Fit

Annual Total Precip (in) = -160.17 + 0.09574 Year

Summary of Fit

RSquare	0.139216
RSquare Adj	0.129544
Root Mean Square Error	6.323279
Mean of Response	26.90352
Observations (or Sum Wgts)	91

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	575.5300	575.530	14.3941
Error	89	3558.5630	39.984	Prob>F
C Total	90	4134.0931		0.0003

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-160.1704	49.31294	-3.25	0.0016
Year	0.095739	0.025235	3.79	0.0003

Figure 40. Total annual precipitation (in) histogram (Figure 40a) and distribution through 1909-1999 (Figure 40b) for Lead, SD. On Figure 40a the Y axis = total precipitation (in) and the X axis = the number of years (frequency).

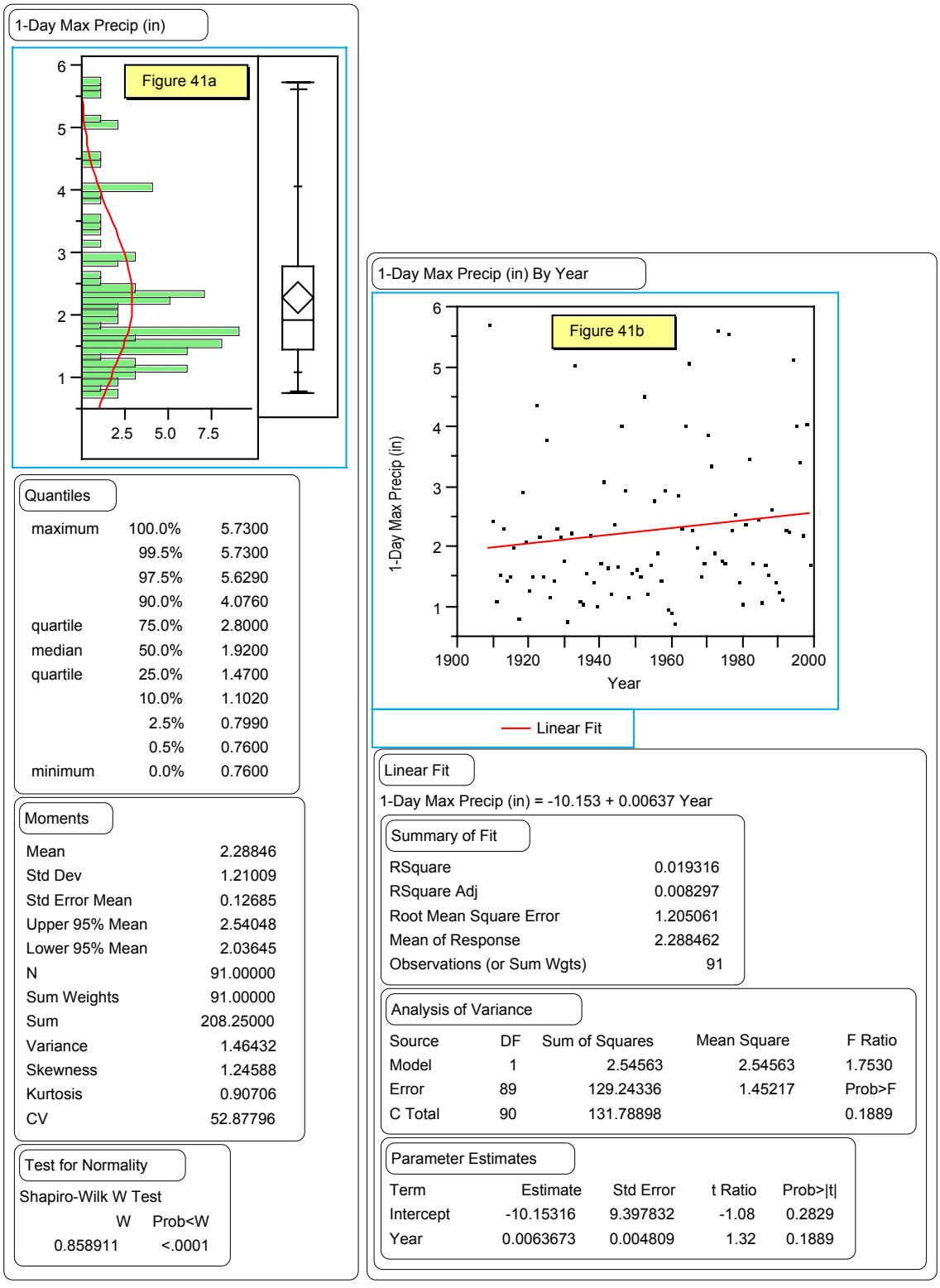


Figure 41. Single day maximum total precipitation/yr (in) histogram (Figure 41a) and distribution through 1909-1999 (Figure 41b) for Lead, SD. On Figure 41a the Y axis = total single day precipitation max/yr (in) and the X axis = the number of years (frequency).

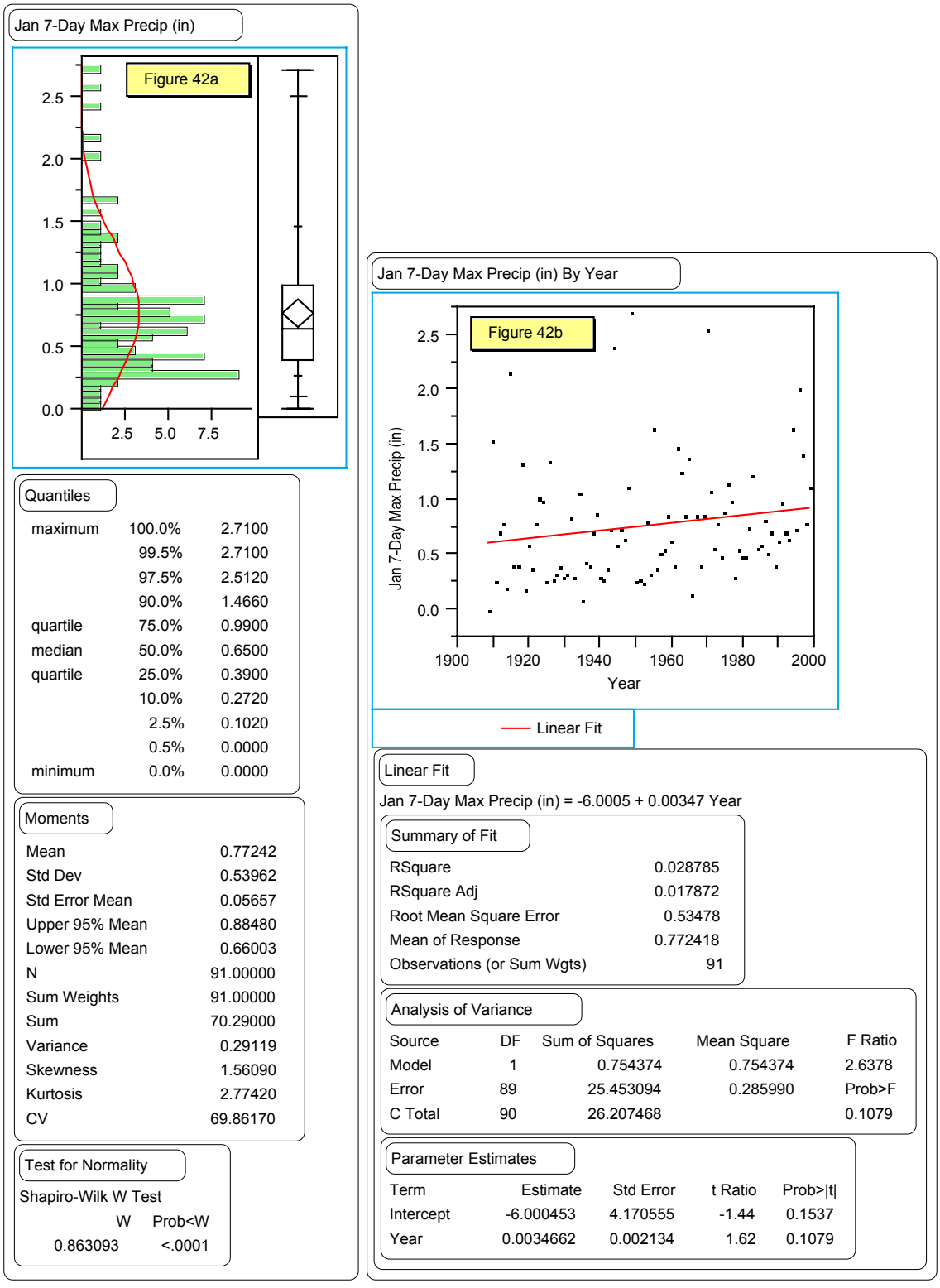
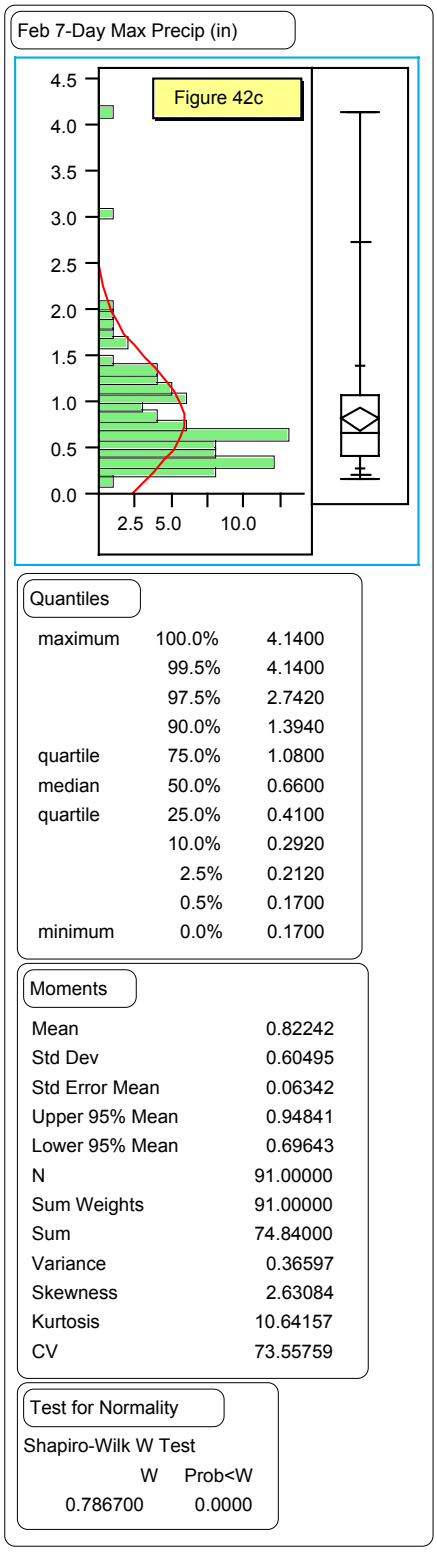


Figure 42. Maximum 7-day precipitation total (histogram) for January (Figure 42a) and distribution through 1909-1999 (Figure 42b) for Lead, SD. On Figure 42a the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



Quantiles

maximum	100.0%	4.1400
	99.5%	4.1400
	97.5%	2.7420
	90.0%	1.3940
quartile	75.0%	1.0800
median	50.0%	0.6600
quartile	25.0%	0.4100
	10.0%	0.2920
	2.5%	0.2120
	0.5%	0.1700
minimum	0.0%	0.1700

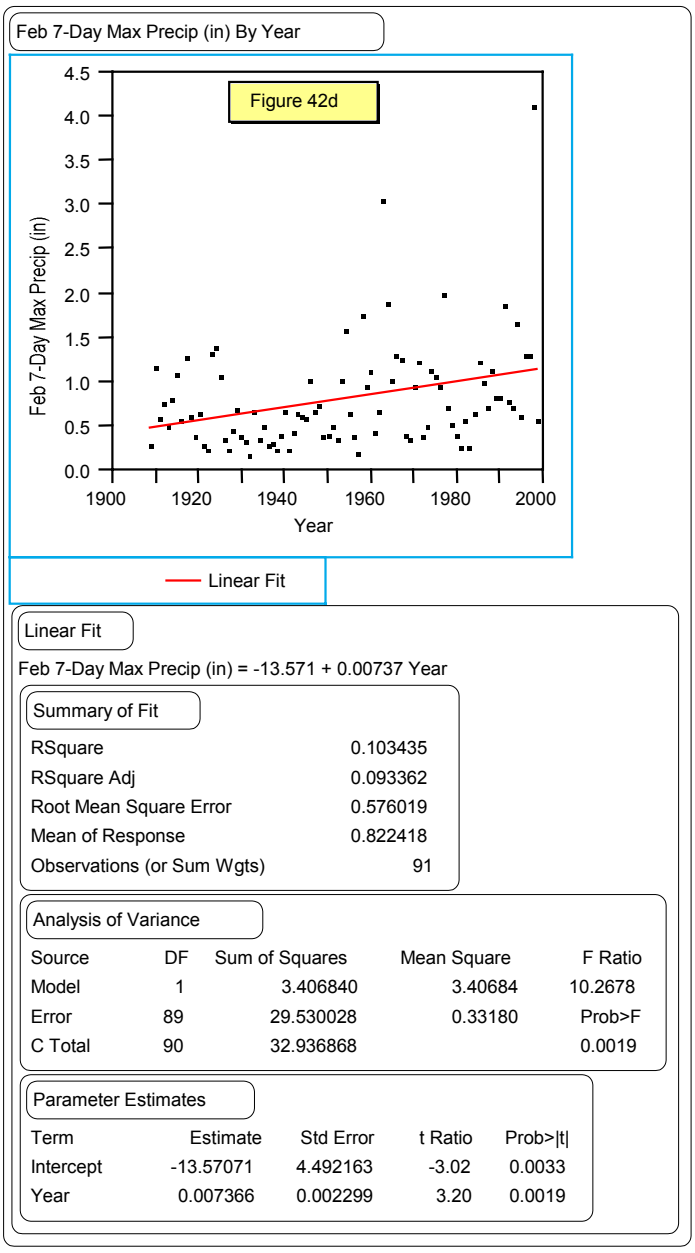
Moments

Mean	0.82242
Std Dev	0.60495
Std Error Mean	0.06342
Upper 95% Mean	0.94841
Lower 95% Mean	0.69643
N	91.00000
Sum Weights	91.00000
Sum	74.84000
Variance	0.36597
Skewness	2.63084
Kurtosis	10.64157
CV	73.55759

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.786700	0.0000



Linear Fit

Feb 7-Day Max Precip (in) = -13.571 + 0.00737 Year

Summary of Fit

RSquare	0.103435
RSquare Adj	0.093362
Root Mean Square Error	0.576019
Mean of Response	0.822418
Observations (or Sum Wgts)	91

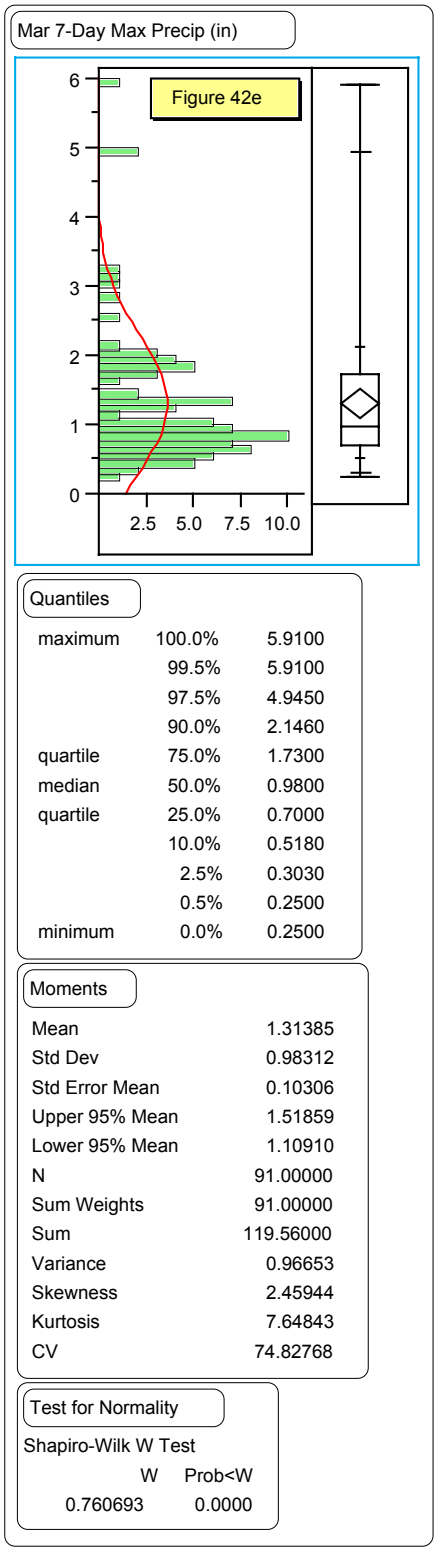
Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	3.406840	3.40684	10.2678
Error	89	29.530028	0.33180	Prob>F
C Total	90	32.936868		0.0019

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-13.57071	4.492163	-3.02	0.0033
Year	0.007366	0.002299	3.20	0.0019

Figure 42. Maximum 7-day precipitation total (histogram) for February (Figure 42c) and distribution through 1909-1999 (Figure 42d) for Lead, SD. On Figure 42c the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



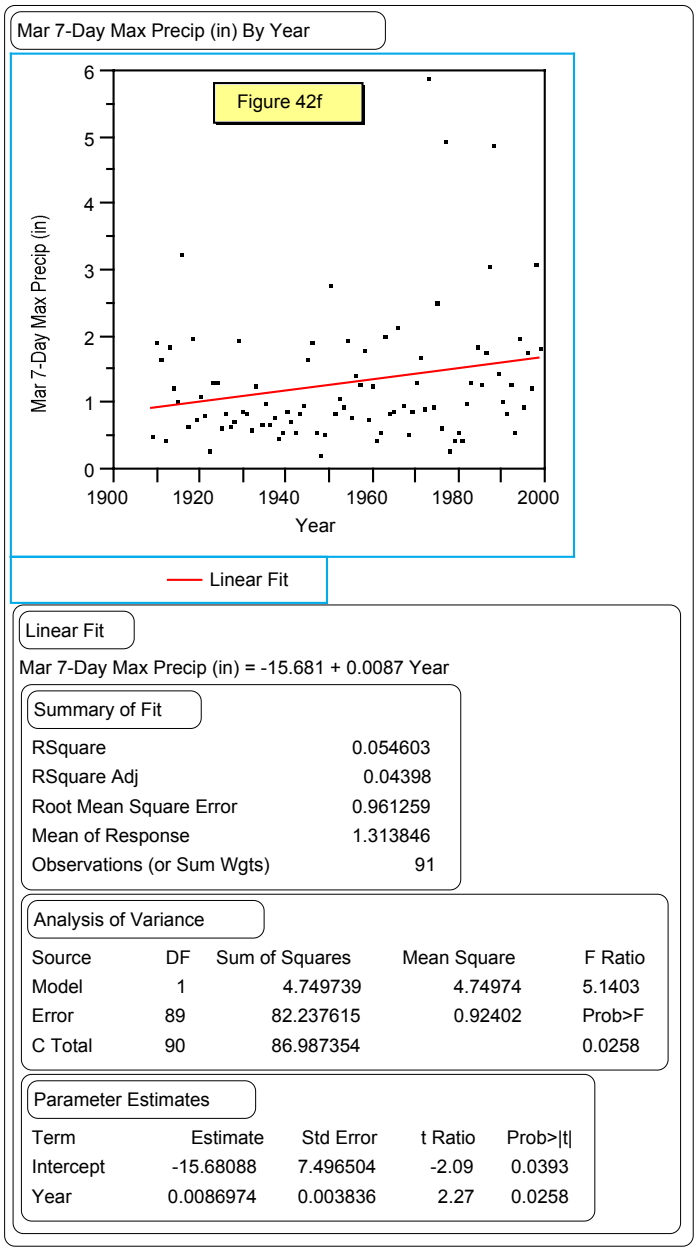


Figure 42. Maximum 7-day precipitation total (histogram) for March (Figure 42e) and distribution through 1909-1999 (Figure 42f) for Lead, SD. On Figure 42e the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

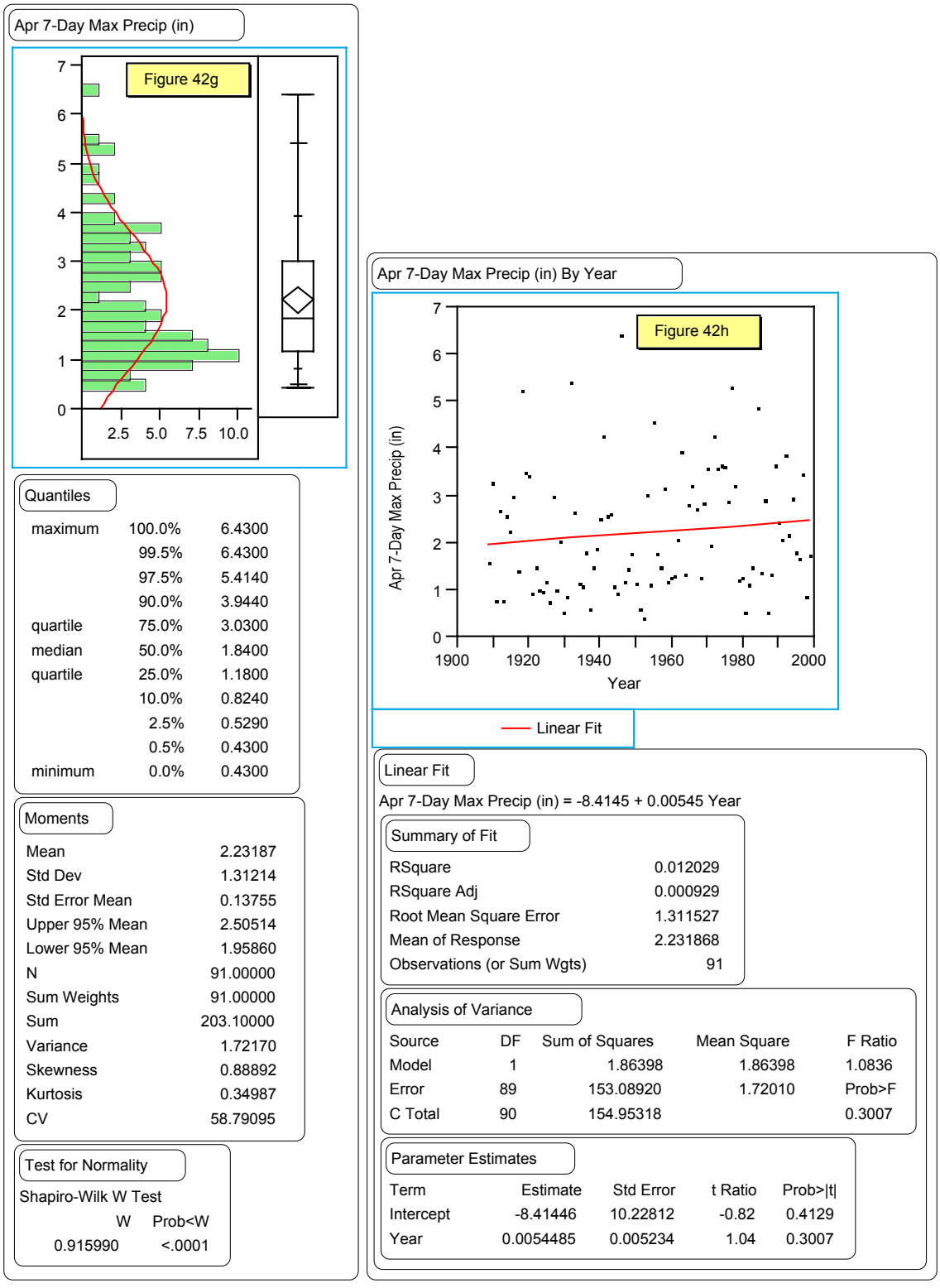
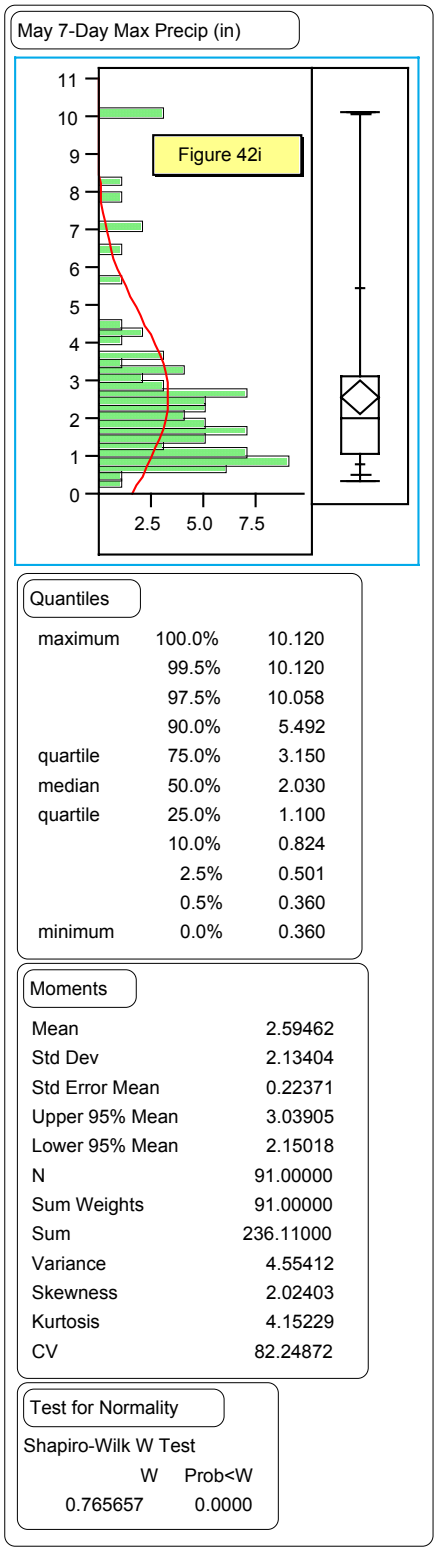


Figure 42. Maximum 7-day precipitation total (histogram) for April (Figure 42g) and distribution through 1909-1999 (Figure 42h) for Lead, SD. On Figure 42g the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).



Quantiles

maximum	100.0%	10.120
	99.5%	10.120
	97.5%	10.058
	90.0%	5.492
quartile	75.0%	3.150
median	50.0%	2.030
quartile	25.0%	1.100
	10.0%	0.824
	2.5%	0.501
	0.5%	0.360
minimum	0.0%	0.360

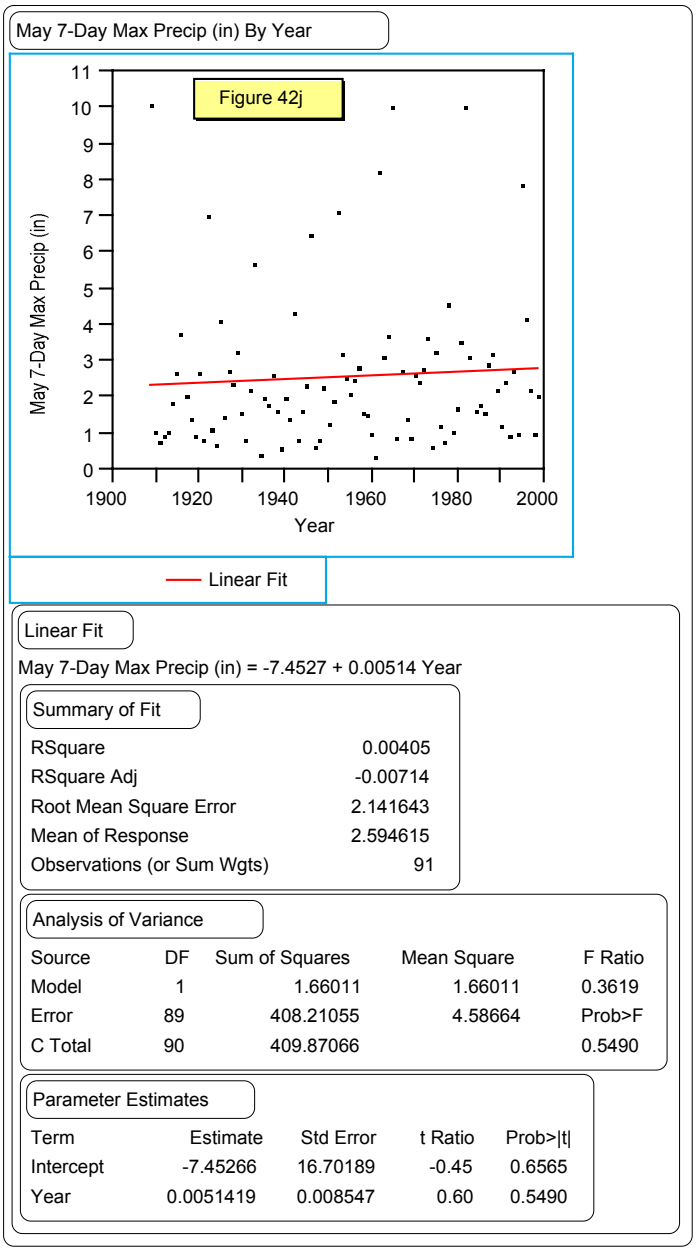
Moments

Mean	2.59462
Std Dev	2.13404
Std Error Mean	0.22371
Upper 95% Mean	3.03905
Lower 95% Mean	2.15018
N	91.00000
Sum Weights	91.00000
Sum	236.11000
Variance	4.55412
Skewness	2.02403
Kurtosis	4.15229
CV	82.24872

Test for Normality

Shapiro-Wilk W Test

W	Prob<W
0.765657	0.0000



Linear Fit

May 7-Day Max Precip (in) = -7.4527 + 0.00514 Year

Summary of Fit

RSquare	0.00405
RSquare Adj	-0.00714
Root Mean Square Error	2.141643
Mean of Response	2.594615
Observations (or Sum Wgts)	91

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	1.66011	1.66011	0.3619
Error	89	408.21055	4.58664	Prob>F
C Total	90	409.87066		0.5490

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	-7.45266	16.70189	-0.45	0.6565
Year	0.0051419	0.008547	0.60	0.5490

Figure 42. Maximum 7-day precipitation total (histogram) for May (Figure 42i) and distribution through 1909-1999 (Figure 42j) for Lead, SD. On Figure 42i the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

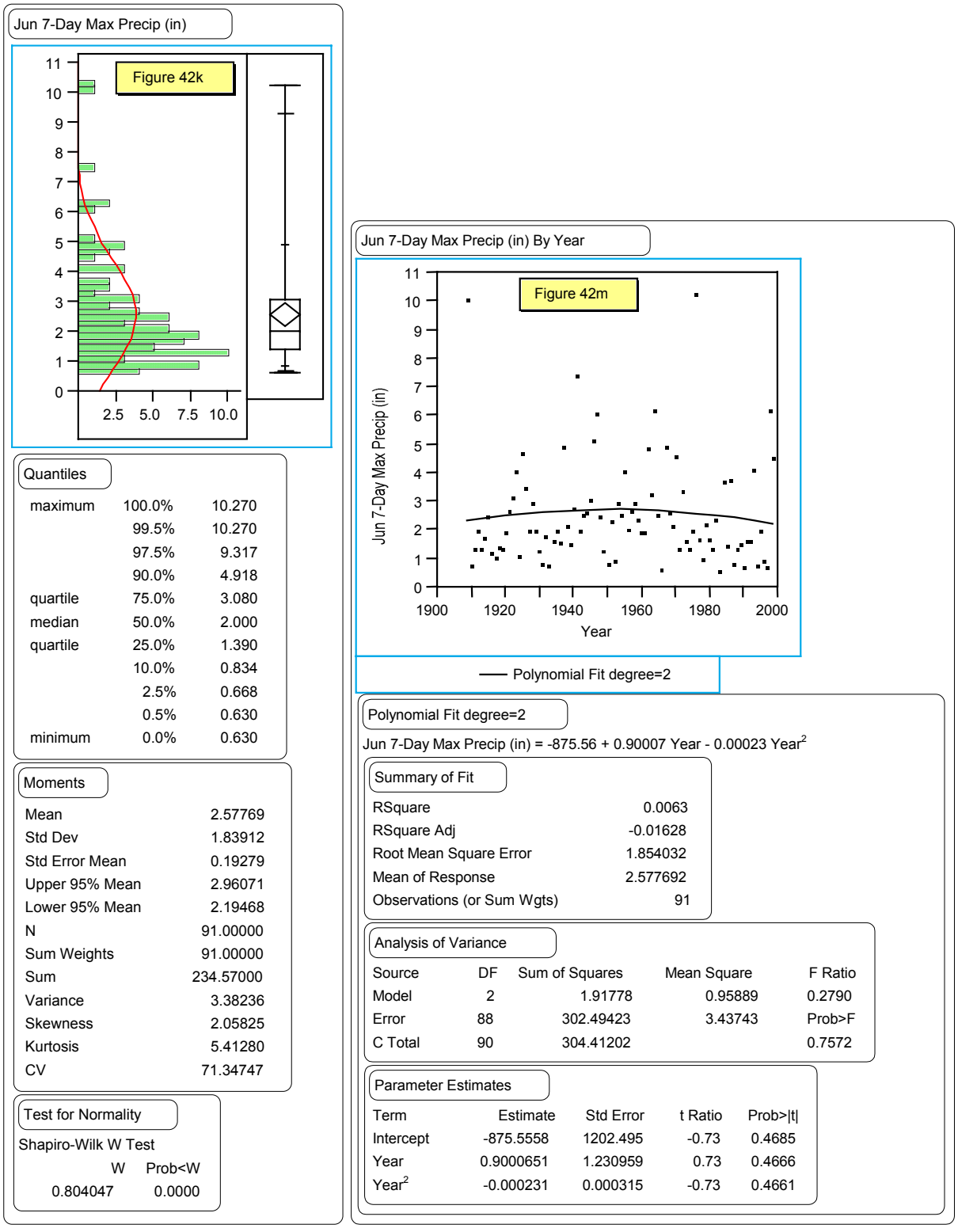


Figure 42. Maximum 7-day precipitation total (histogram) for June (Figure 42k) and distribution through 1909-1999 (Figure 42m) for Lead, SD. On Figure 42k the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

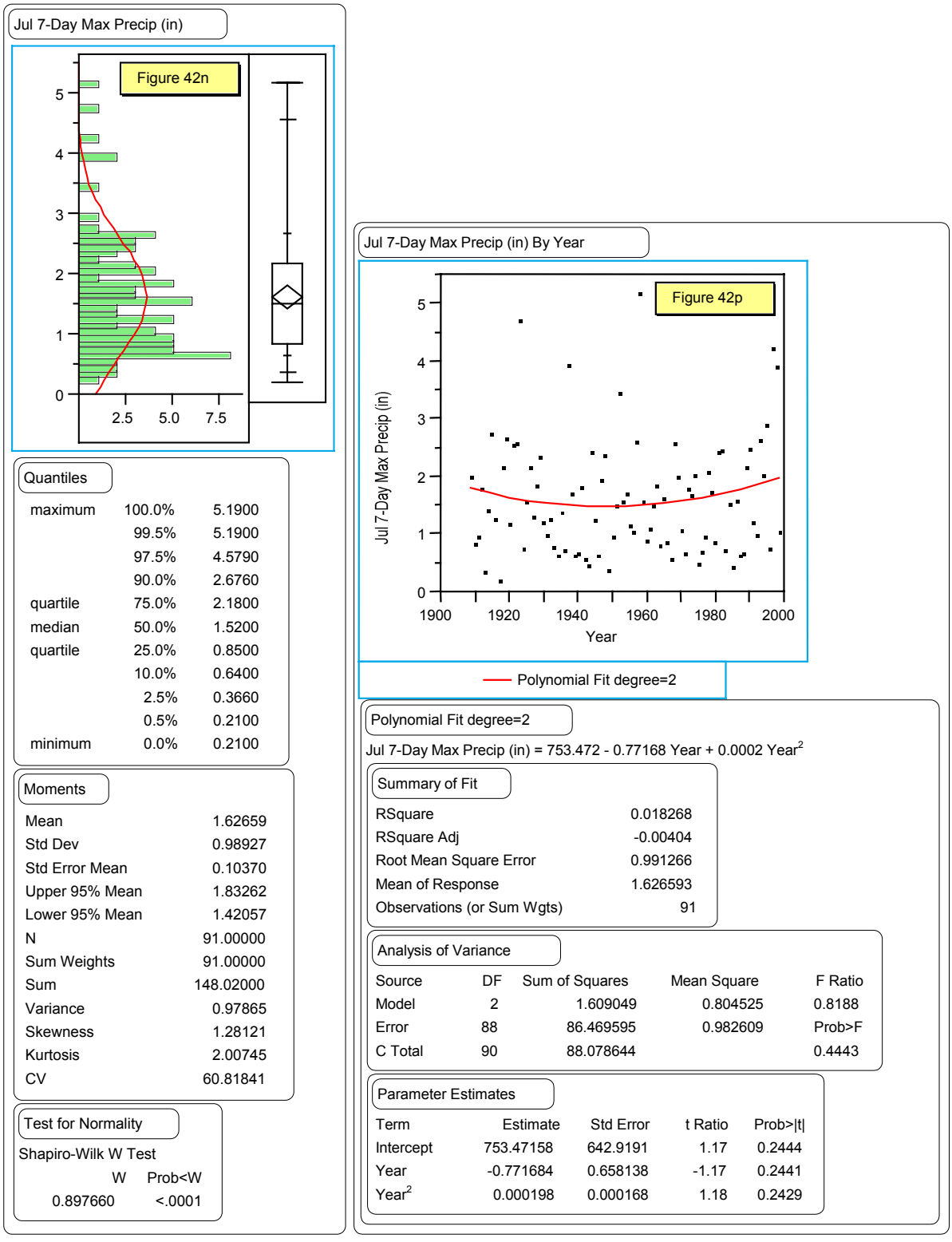


Figure 42. Maximum 7-day precipitation total (histogram) for July (Figure 42n) and distribution through 1909-1999 (Figure 42p) for Lead, SD. On Figure 42n the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

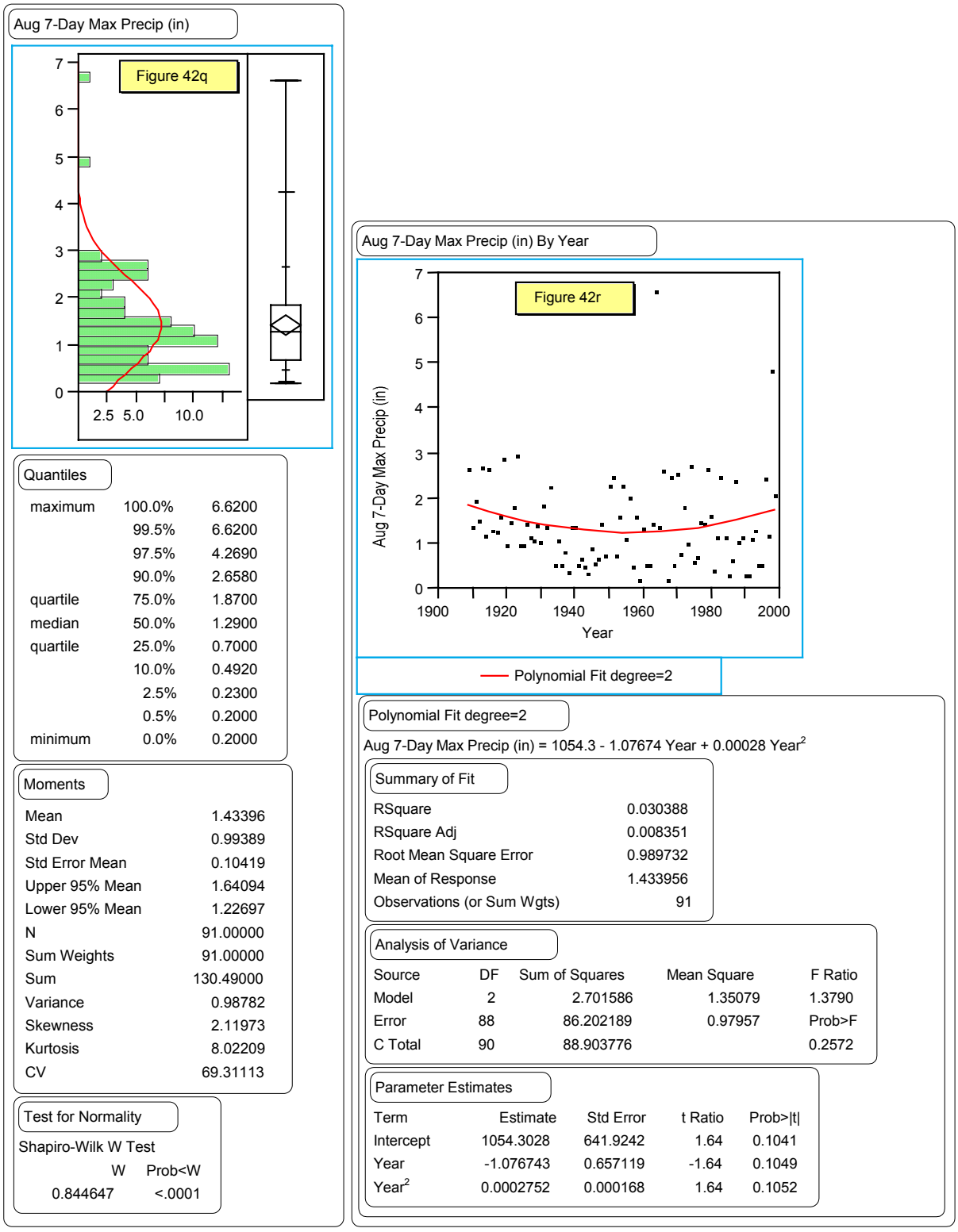


Figure 42. Maximum 7-day precipitation total (histogram) for August (Figure 42q) and distribution through 1909-1999 (Figure 42r) for Lead, SD. On Figure 42q the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

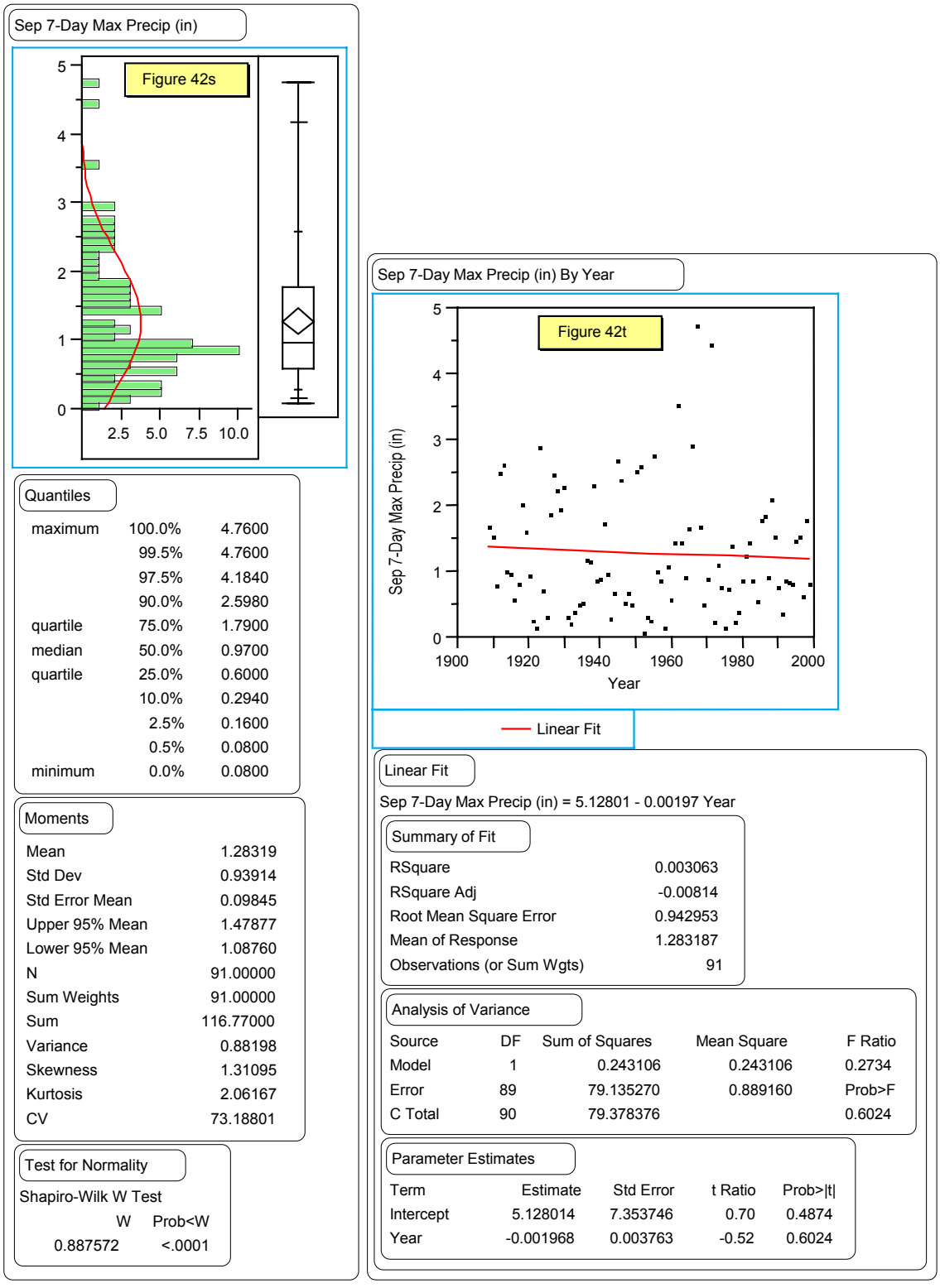


Figure 42. Maximum 7-day precipitation total (histogram) for September (Figure 42s) and distribution through 1909-1999 (Figure 42t) for Lead, SD. On Figure 42s the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

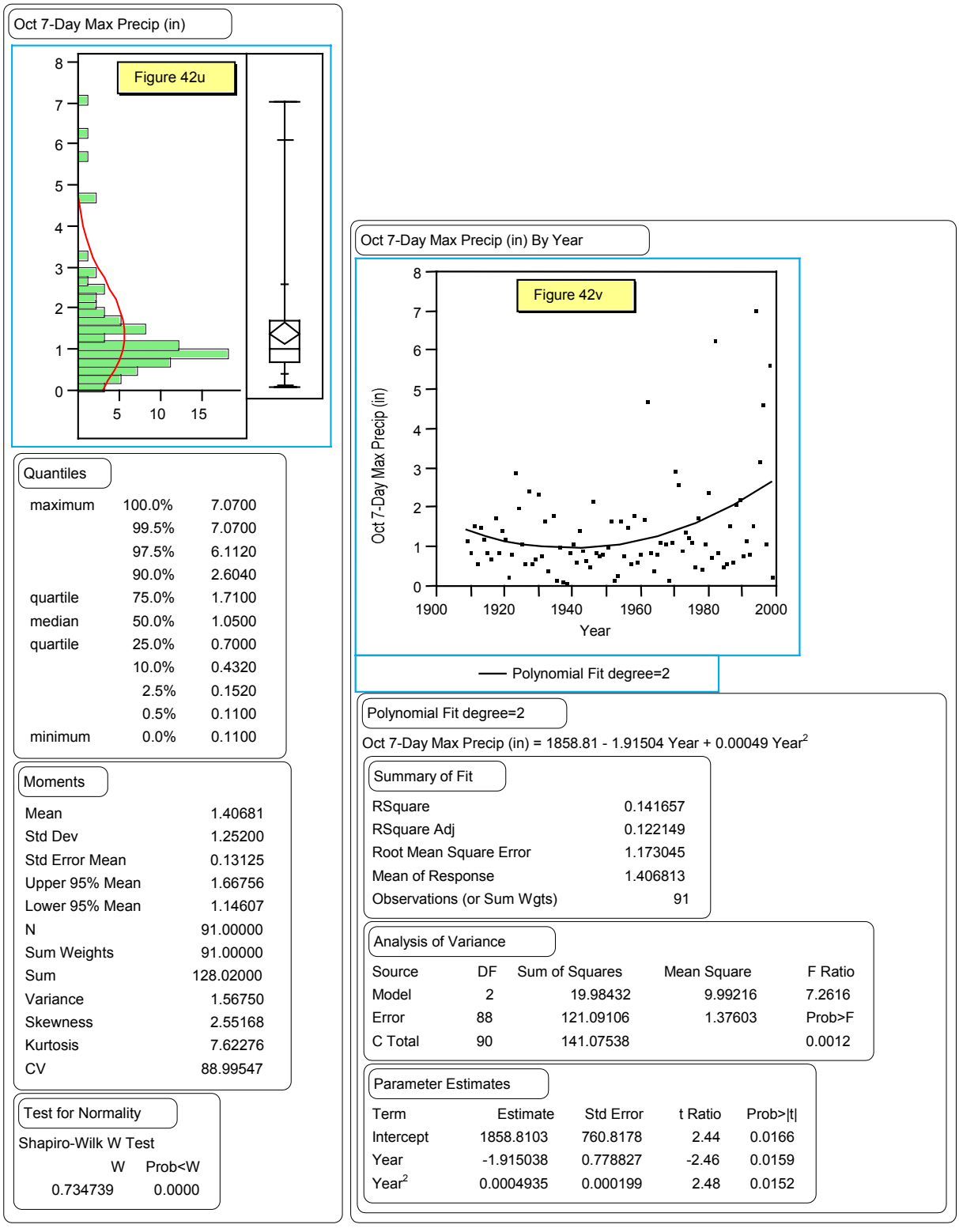


Figure 42. Maximum 7-day precipitation total (histogram) for October (Figure 42u) and distribution through 1909-1999 (Figure 42v) for Lead, SD. On Figure 42u the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

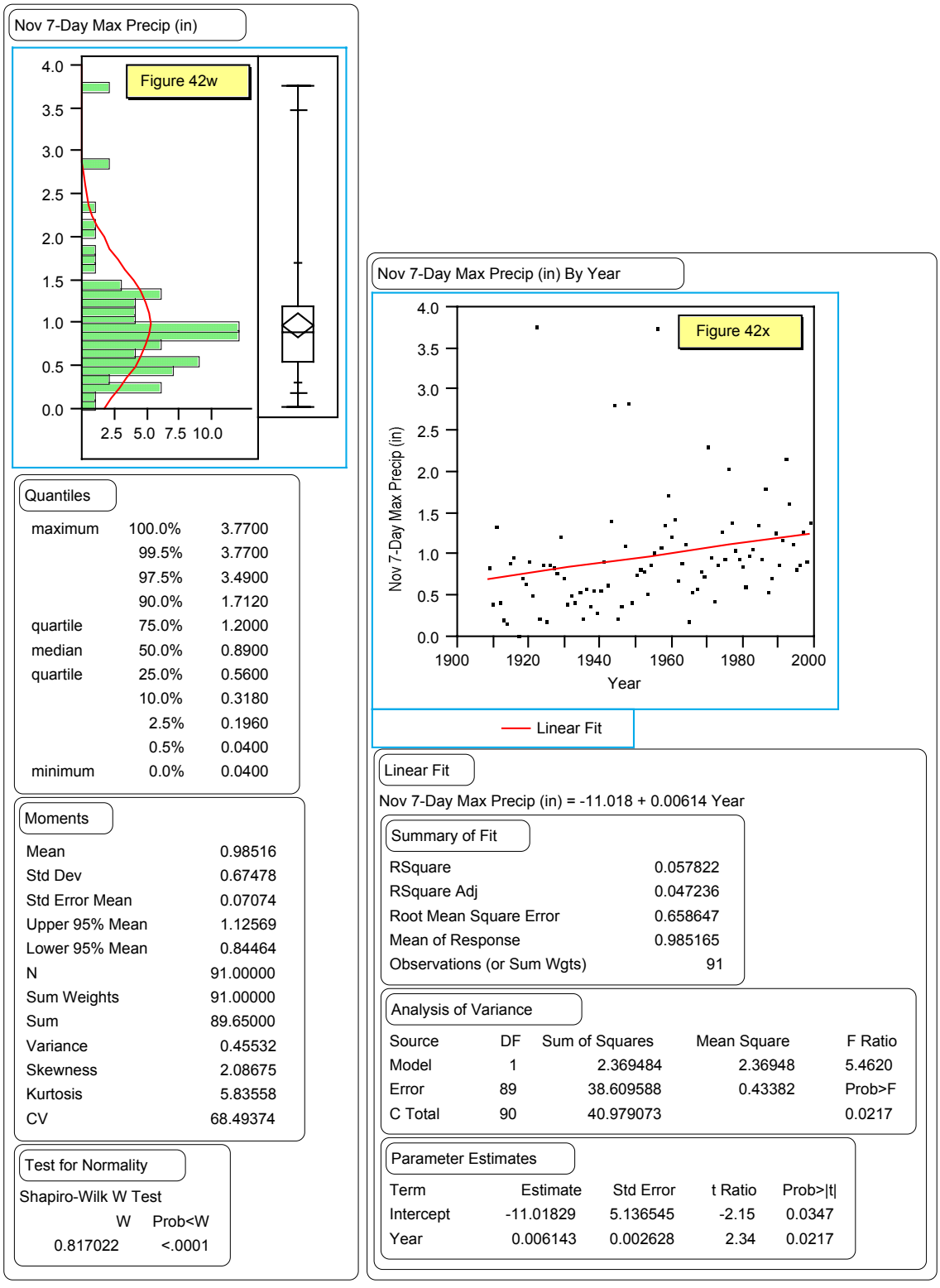


Figure 42. Maximum 7-day precipitation total (histogram) for November (Figure 42w) and distribution through 1909-1999 (Figure 42x) for Lead, SD. On Figure 42w the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

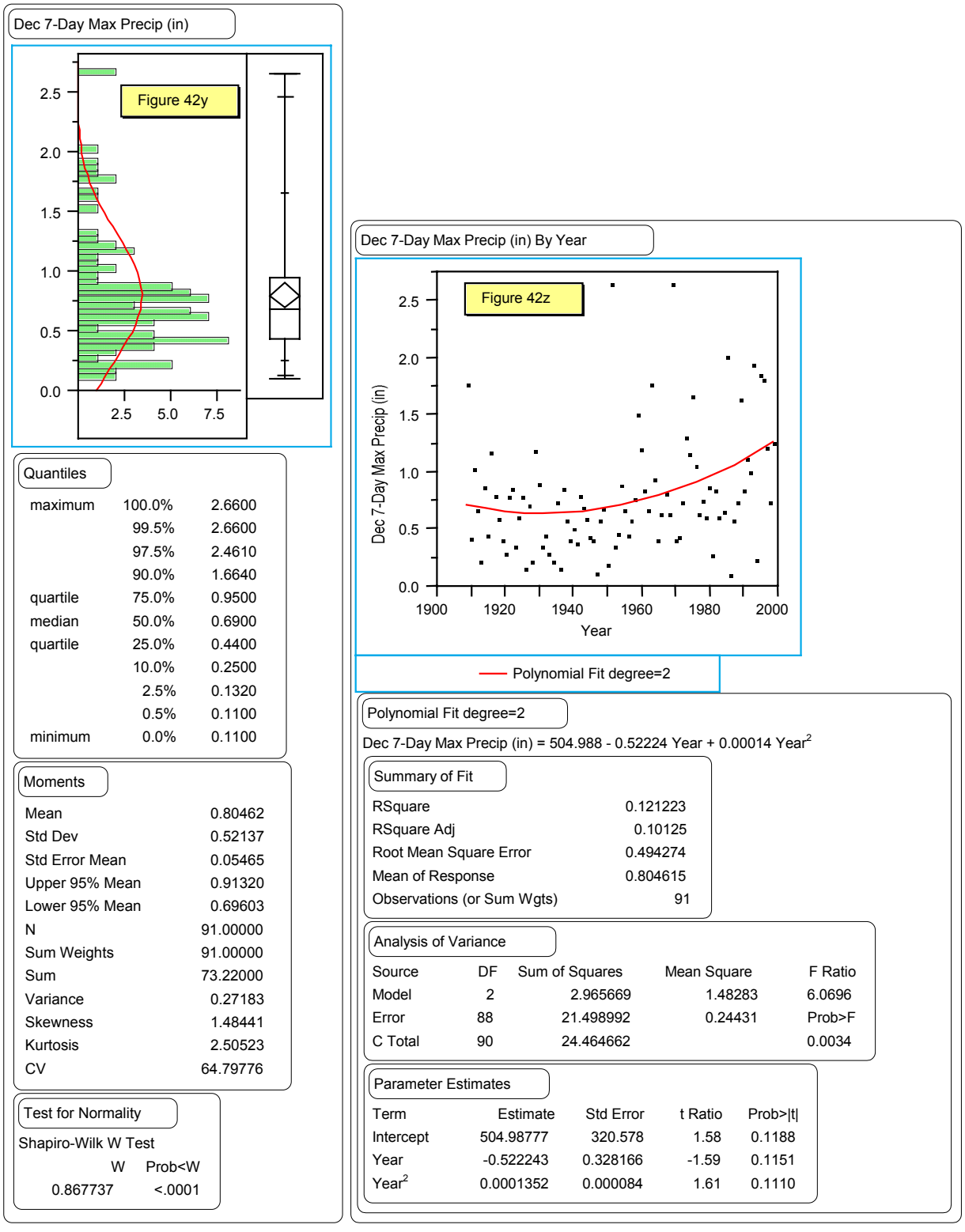


Figure 42. Maximum 7-day precipitation total (histogram) for December (Figure 42y) and distribution through 1909-1999 (Figure 42z) for Lead, SD. On Figure 42y the Y axis = maximum precipitation in a 7-day period (in.) and X axis = the number of years (frequency).

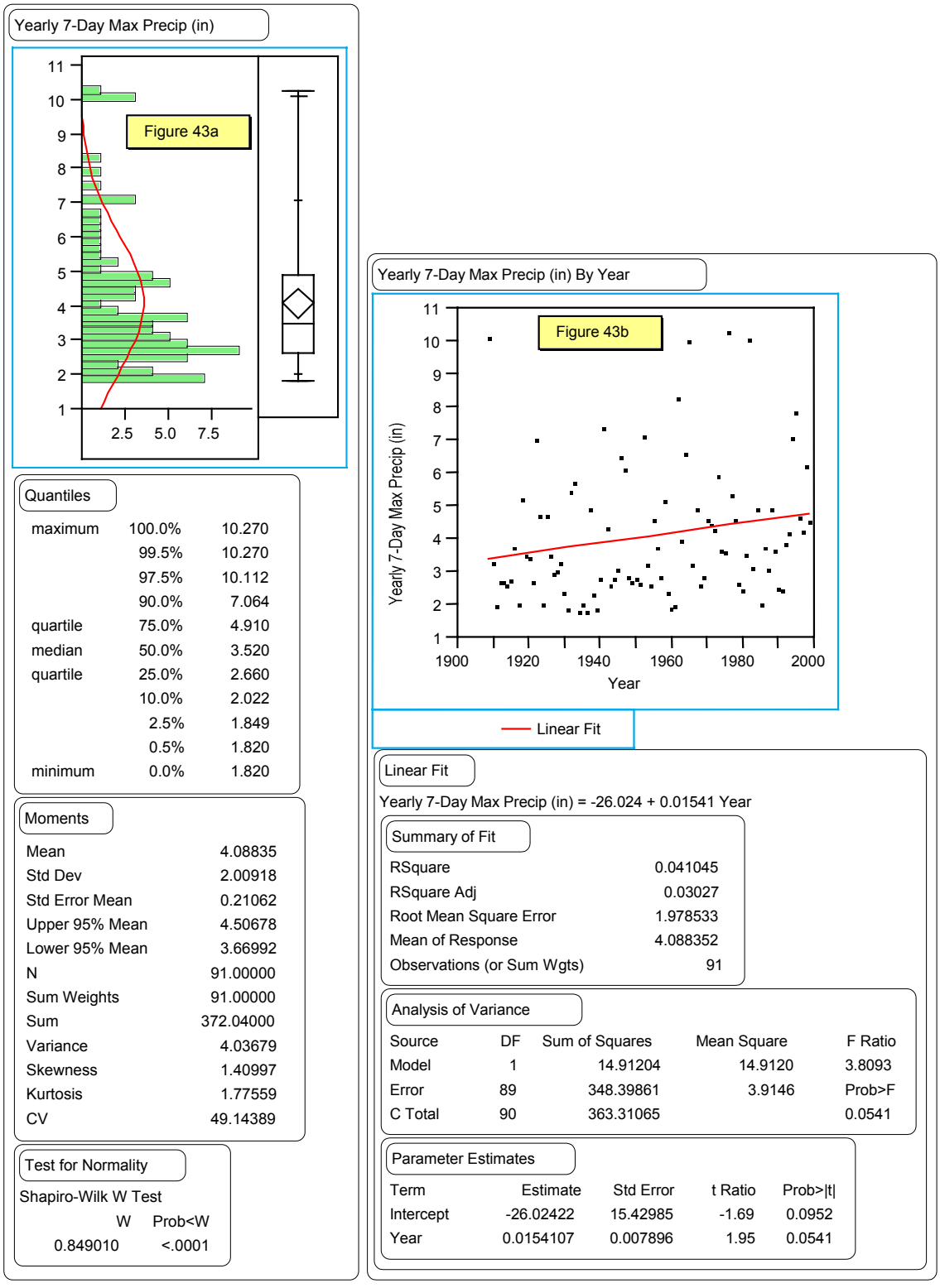


Figure 43. Yearly maximum 7-day precipitation event histogram (Figure 43a) and distribution through 1909-1999 (Figure 43b) for Lead, South Dakota. On Figure 43a the Y axis = maximum 7-day precipitation for the year and the X axis = the number of years (frequency).

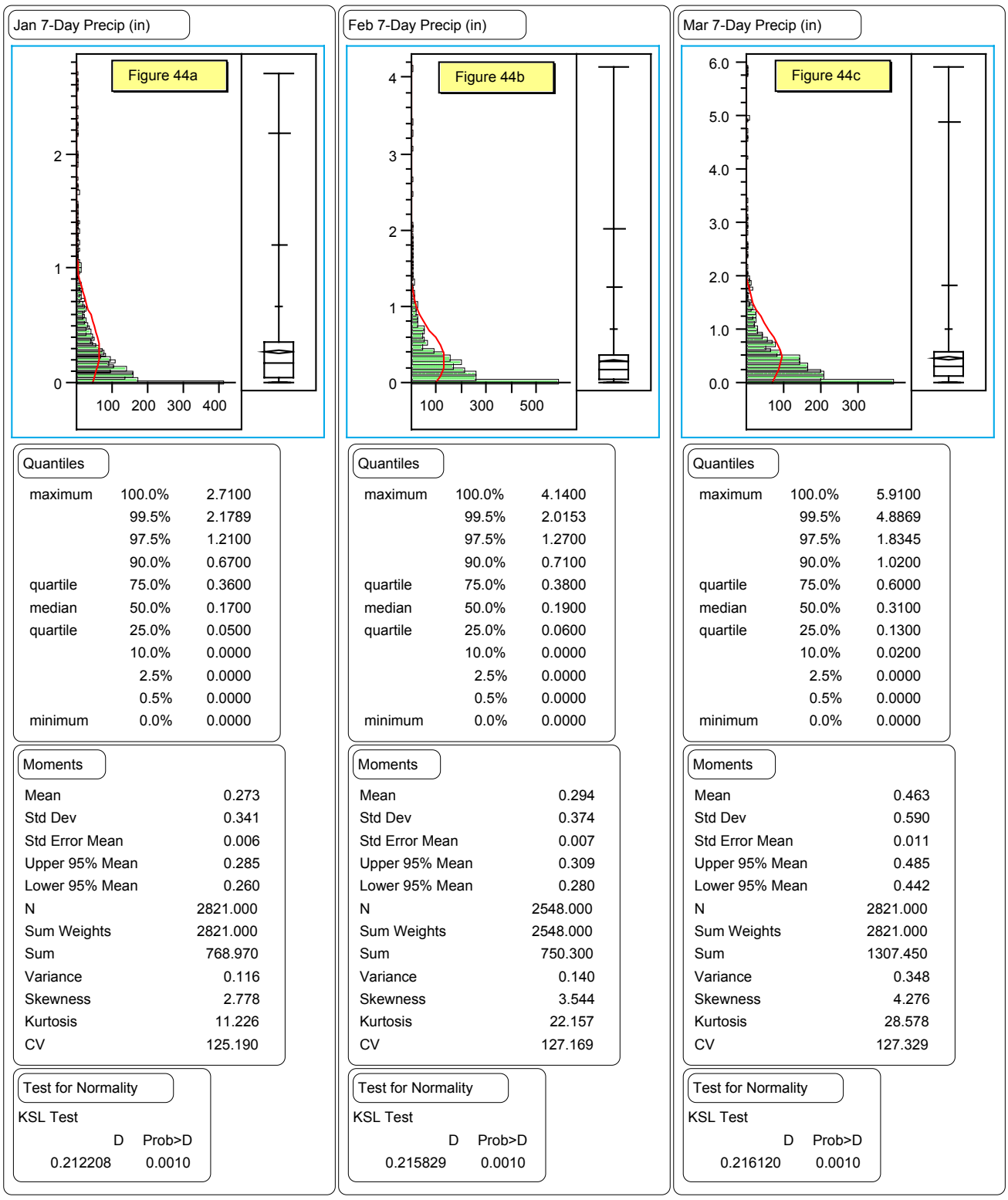


Figure 44. Distribution (histogram) of January (Figure 44a), February (Figure 44b), and March (Figure 44c) 7-day precipitation totals (in.) for Lead, SD 1909-1999. The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

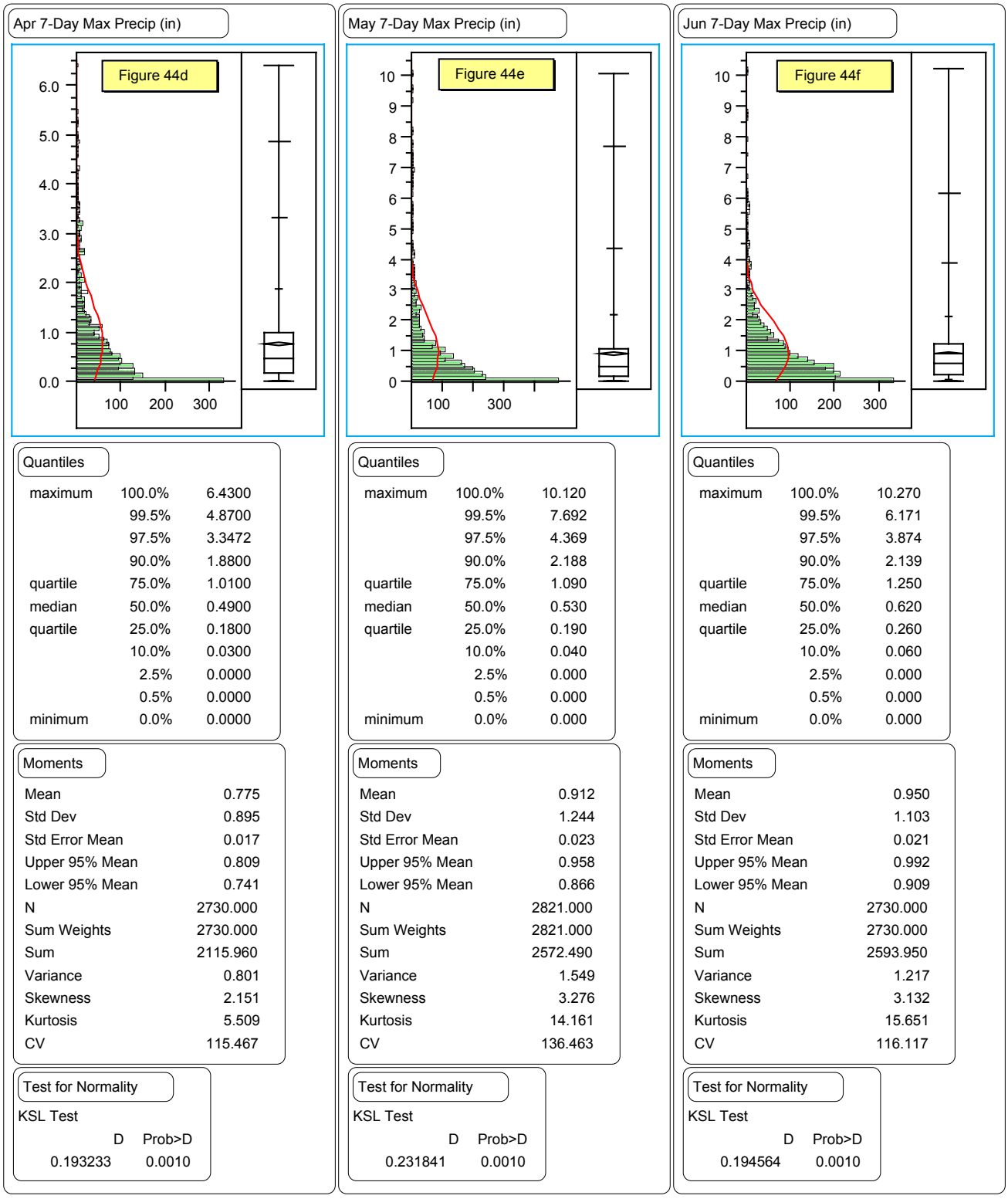


Figure 44. Distribution (histogram) of April (Figure 44d), May (Figure 44e), and June (Figure 44f) 7-day precipitation totals (in.) for Lead, SD 1909-1999. The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

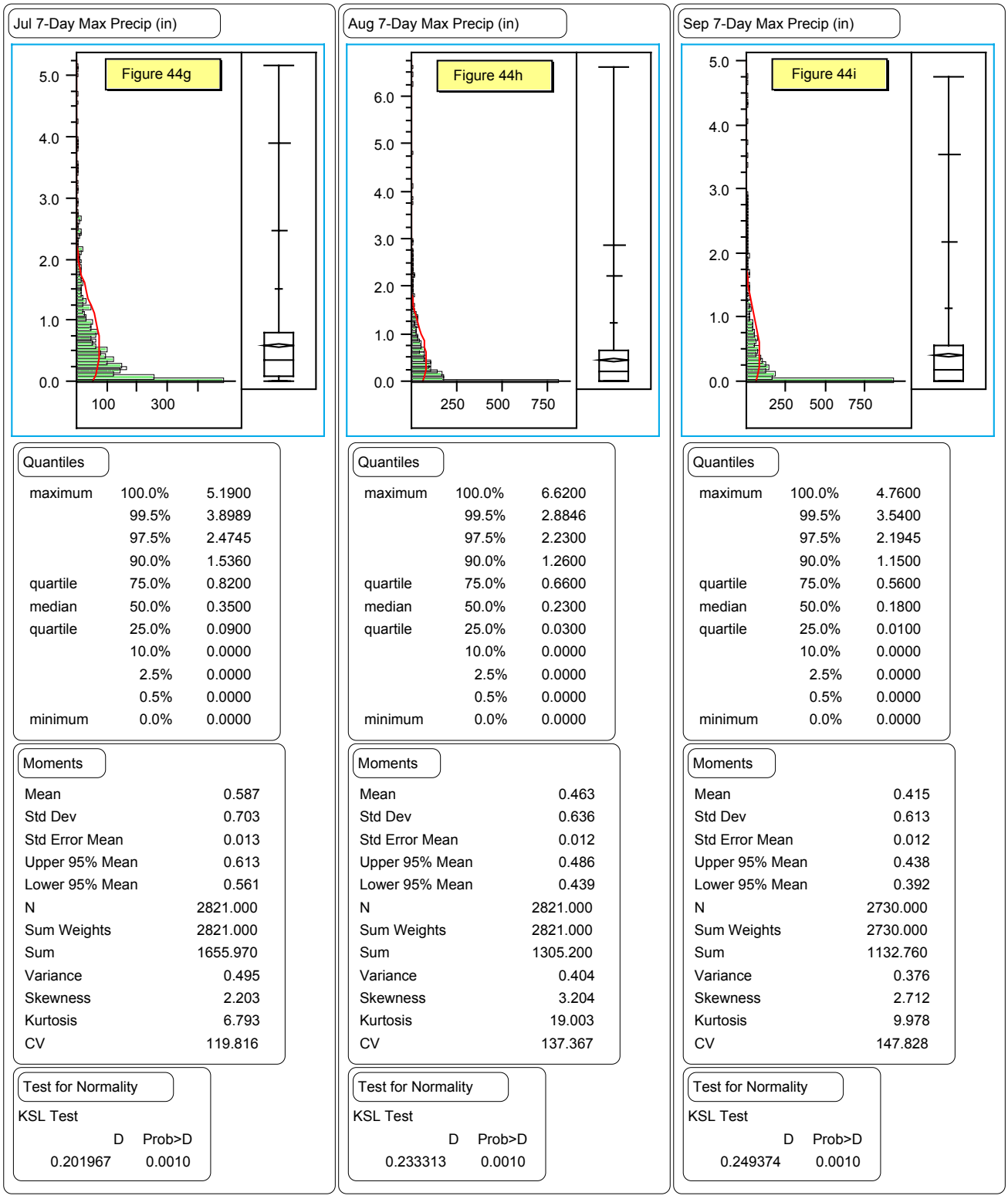


Figure 44. Distribution (histogram) of July (Figure 44g), August (Figure 44h), and September (Figure 44i) 7-day precipitation totals (in.) for Lead, SD 1909-1999. The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

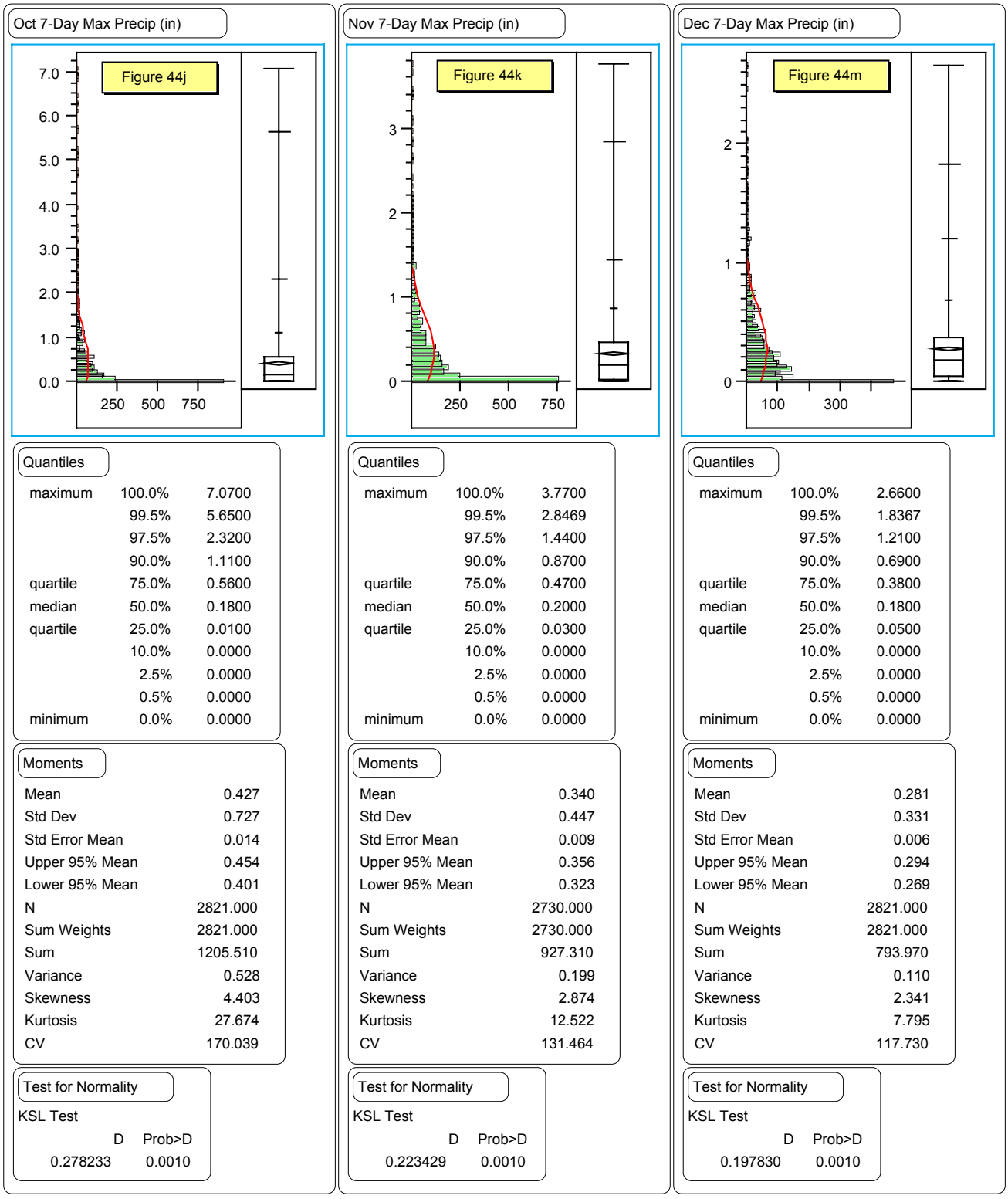


Figure 44. Distribution (histogram) of October (Figure 44j), November (Figure 44k), and December (Figure 44m) 7-day precipitation totals (in.) for Lead, SD 1909-1999. The Y axis on each figure = the 7-day precipitation total (in.) and X axis = the number of days (frequency).

Table 9. Average number of days at selected precipitation categories for the time listed at Lead, SD (1909-1999).

Precipitation Category	----------Months of the Year----------												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
# Days 1-2 in precip.	0.022	0.044	0.154	0.505	0.549	0.560	0.440	0.275	0.264	0.242	0.099	0.011	3.165
# Days 2-3 in precip.	0.000	0.000	0.022	0.143	0.176	0.121	0.066	0.011	0.044	0.000	0.011	0.000	0.594
# Days 3-4 in precip.	0.000	0.000	0.000	0.000	0.044	0.033	0.000	0.000	0.011	0.033	0.000	0.000	0.121
# Days 4-5 in precip.	0.000	0.000	0.000	0.000	0.044	0.011	0.000	0.011	0.000	0.000	0.000	0.000	0.066
# Days >5 in precip.	0.000	0.000	0.011	0.000	0.033	0.011	0.000	0.000	0.000	0.011	0.000	0.000	0.066
# Days >1 in precip.	0.022	0.044	0.187	0.648	0.846	0.736	0.506	0.297	0.319	0.286	0.110	0.011	4.012
# Days >2 in precip.	0.000	0.000	0.033	0.143	0.297	0.176	0.066	0.022	0.055	0.044	0.011	0.000	0.847
# Days >3 in precip.	0.000	0.000	0.011	0.000	0.121	0.055	0.000	0.011	0.011	0.044	0.000	0.000	0.253
# Days >4 in precip.	0.000	0.000	0.011	0.000	0.077	0.022	0.000	0.011	0.000	0.011	0.000	0.000	0.132
# Days >5 in precip.	0.000	0.000	0.011	0.000	0.033	0.011	0.000	0.000	0.000	0.011	0.000	0.000	0.066

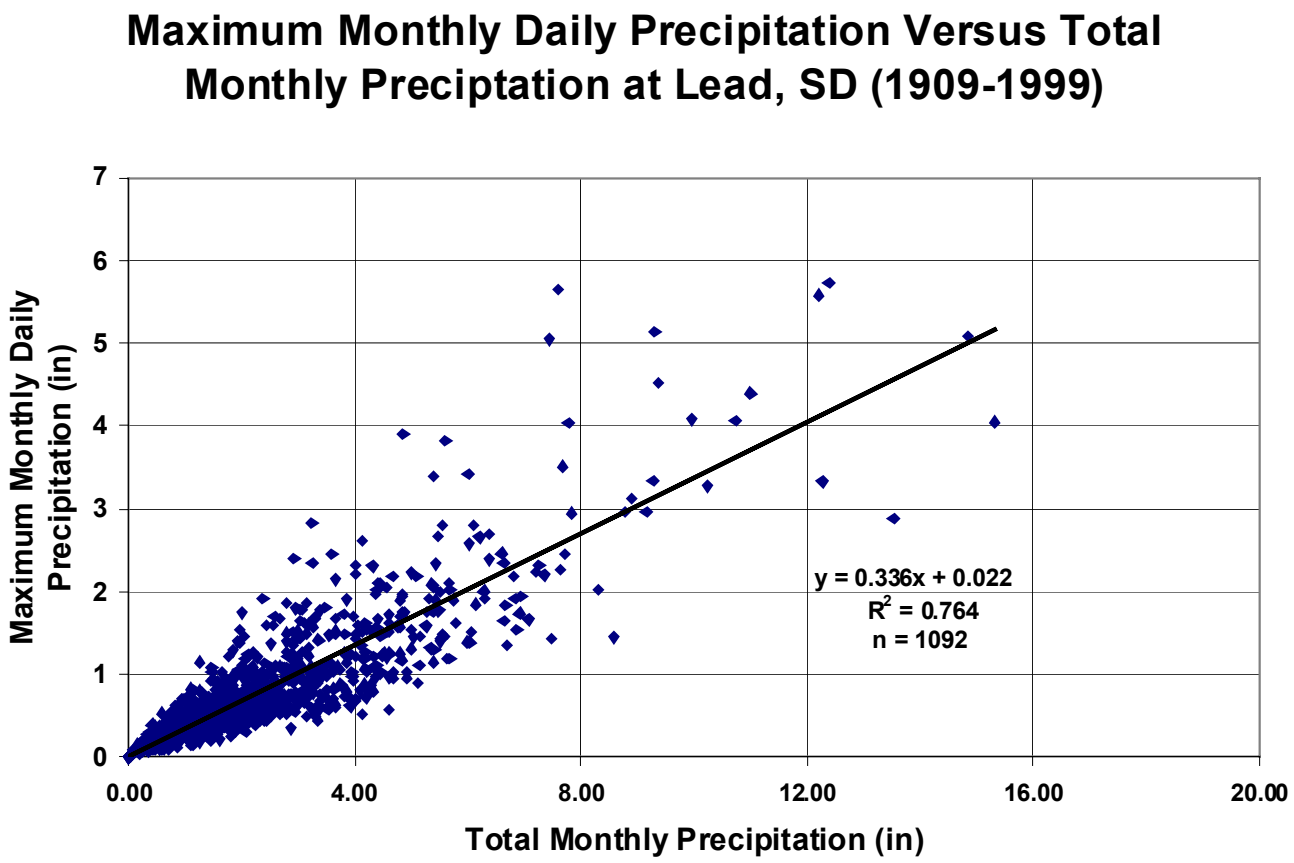


Figure 45. One-day maximum precipitation per month and total monthly precipitation for Lead, SD (1909-1999).

Additional Climatic Data for Lead, SD

Additional important climatic data for Lead, SD are presented in Tables 10, 11, and 12. The snowfall, on average, exceeds 120 in/yr and the cool climate is reflected in the low amount of energy (heat) available for plant growth, <3700 growing degree units (40 ^{O}F basis). Freeze dates and growing season length are presented in Tables 11 and 12, respectively. The area has a relatively short growing season of 130 to 145 days (28 ^{O}F basis).

Table 10. Growing Degree Units (40 ^{O}F basis) and Average Snowfall in Lead, SD.

Month	Growing Degree Units*	Average snowfall (in)**
January	14	15.0
February	13	16.6
March	45	23.1
April	127	23.1
May	343	6.3
June	615	0.5
July	862	0
August	831	0
September	498	1.7
October	263	8.0
November	53	14.2
December	18	16.3
Year	3682	124.8

* A heat unit available for plant growth (40 ^{O}F basis, 1951-1990).
** Data from 1909-1990.
Sources (NWCC, 2001; Meland, 1979; Spuhler etal., 1971)

Table 11. Freeze Dates in Spring and Fall at Lead, SD (1951-1990).

	----------Critical Temperature Level ----------		
Probability	24 ^{O}F or lower	28 ^{O}F or lower	32 ^{O}F or lower
Last freezing temperature in spring			
1 year in 10 later than	May 13	May 24	June 12
2 years in 10 later than	May 7	May 18	June 6
5 years in 10 later than	April 27	May 7	May 25
First freezing temperature in fall			
1 year in 10 earlier than	September 21	September 13	September 6
2 years in 10 earlier than	September 28	September 19	September 11
5 years in 10 earlier than	October 13	October 1	September 20

Sources (NWCC, 2001; Meland, 1979; Spuhler etal., 1971)

Table 12. Growing Season Length at Lead, SD (1951-1990).

	Daily Minimum Temperature during Growing Season		
Probability	> 24 ^{O}F	> 28 ^{O}F	> 32 ^{O}F
9 years in 10	139	124	96
8 years in 10	149	130	104
5 years in 10	167	145	117
2 years in 10	185	159	131
1 year in 10	195	166	137

Sources (NWCC, 2001; Meland, 1979; Spuhler etal., 1971)

SUMMARY

This report highlights the available climatic data for two weather stations near the Gilt Edge Mine Superfund Site. The weather stations studied were Deadwood and Lead, SD. The weather station data for Deadwood covered the years 1943 through 1999 and the weather station data for Lead covered the years 1909 through 1999. The weather data summarized in this report include daily temperature (maximum, minimum, and average), monthly temperature (maximum, minimum, and average), numbers of days at critical warm and cold temperatures, precipitation (daily, daily maximums, 7-day maximums, monthly, monthly maximums, snowfall, and number of days per year at critical precipitation levels), growing degree days (40 ^{O}F basis), growing season length (28 ^{O}F basis). Deadwood, SD climatic data is summarized in Table 13. Lead, SD climatic data is summarized in Table 14.

Table 13. Summary of climatic data (1943-1999) for Deadwood, SD.

Property	Min. Value	Max. Value	Average Value	Significant Trend (1943-1999) or Comment
Monthly maximum temp (^{O}F)	21.3	88.8	56.5	Curvilinear, lows during 1960s+1970s
Monthly minimum temp (^{O}F)	-1.9	58.6	31.1	Linear, increasing 1 ^{O}F / 25 yrs
Monthly average temp (^{O}F)	10.1	73.1	43.9	Curvilinear, lows during 1960s+1970s
Number of days <40 ^{O}F	211	277	243	Linear, decreasing 1 day / 3 yrs
Number of days <35 ^{O}F	191	243	212	Linear, decreasing 1 day / 5 yrs
Number of days <30 ^{O}F	157	200	175	Curvilinear, lows during 1970s
Number of days <25 ^{O}F	100	159	132	Curvilinear, lows during 1980s
Number of days <20 ^{O}F	69	125	94	Linear, decreasing 1 day / 4 yrs
Number of days <10 ^{O}F	15	72	44	Linear, decreasing 1 day / 5 yrs
Number of days <0 ^{O}F	3	36	19	No significant trend
Number of days <-10 ^{O}F	0	19	6	No significant trend
Number of days <-20 ^{O}F	0	10	1	No significant trend
Number of days >65 ^{O}F	116	163	140	Curvilinear, lows during 1970s
Number of days >70 ^{O}F	73	136	110	No significant trend
Number of days >75 ^{O}F	41	112	81	No significant trend
Number of days >80 ^{O}F	19	79	51	Curvilinear, lows during 1980s
Number of days >85 ^{O}F	6	49	26	Curvilinear, lows during 1980s
Number of days >90 ^{O}F	0	28	9	Curvilinear, lows during 1980s
Daily maximum temp (^{O}F)	-29	103	56.5	---
Daily minimum temp (^{O}F)	-30	77	31.1	---
Daily average temp (^{O}F)	-29	89	43.9	---
Jan monthly precipitation (in)	0.14	4.76	1.31	No significant trend
Feb monthly precipitation (in)	0.09	4.93	1.34	No significant trend
Mar monthly precipitation (in)	0.03	6.22	2.18	No significant trend
Apr monthly precipitation (in)	0.22	6.91	3.27	No significant trend
May monthly precipitation (in)	0.93	18.61	4.72	No significant trend
Jun monthly precipitation (in)	0.64	12.83	4.38	No significant trend
Jul monthly precipitation (in)	0.45	9.76	2.58	No significant trend
Aug monthly precipitation (in)	0.03	4.71	1.83	No significant trend
Sep monthly precipitation (in)	0.04	5.79	1.89	No significant trend
Oct monthly precipitation (in)	0.12	10.78	1.97	Curvilinear, lows during 1960s
Nov monthly precipitation (in)	0.07	5.44	1.53	No significant trend
Dec monthly precipitation (in)	0.20	3.17	1.37	Linear, increasing 1 in / 80 yrs
Yearly precipitation (in)	18.03	48.42	28.12	No significant trend
1-day max precip (in)	0.84	8.00	2.48	No significant trend
7-day max precip (in) – Jan	0.11	3.49	0.84	No significant trend

Table 13. Summary of climatic data (1943-1999) for Deadwood, SD (continued).

Property	Min. Value	Max. Value	Average Value	Significant Trend (1943-1999) or Comment
7-day max precip (in) – Feb	0.05	2.83	0.94	No significant trend
7-day max precip (in) – Mar	0.02	4.68	1.37	No significant trend
7-day max precip (in) – Apr	0.21	6.95	2.22	No significant trend
7-day max precip (in) – May	0.67	12.92	2.94	No significant trend
7-day max precip (in) – Jun	0.29	10.48	2.82	No significant trend
7-day max precip (in) – Jul	0.38	6.35	1.64	No significant trend
7-day max precip (in) – Aug	0.03	3.24	1.13	No significant trend
7-day max precip (in) – Sep	0.00	5.00	1.36	No significant trend
7-day max precip (in) – Oct	0.30	8.57	1.46	No significant trend
7-day max precip (in) – Nov	0.26	4.20	1.16	No significant trend
7-day max precip (in) – Dec	0.00	2.38	0.83	No significant trend
Yearly monthly max precip (in)	1.95	12.90	4.53	No significant trend
Number of days/yr >1 in precip	---	---	5.06	---
Number of days/yr >2 in precip	---	---	1.15	---
Number of days/yr >3 in precip	---	---	0.32	(1 day every 3 years)
Number of days/yr >4 in precip	---	---	0.16	(1 day every 6 years)
Number of days/yr >5 in precip	---	---	0.02	(1 day every 50 years)
Growing Degree Days (40^{O}F)	---	---	3520	---
Average snowfall (in/yr)	---	---	110	---
Spring freeze date (≤28 ^{O}F)	---	---	May 21	(20% chance of a later date)
Fall freeze date (≤28 ^{O}F)	---	---	Sep 18	(20% chance of an earlier date)
Growing season (>28 ^{O}F) (days)	---	---	128	(20% chance of being shorter)

Table 14. Summary of climatic data (1909-1999) for Lead, SD.

Property	Min. Value	Max. Value	Average Value	Significant Trend (1909-1999) or Comment
Monthly maximum temp (^{O}F)	16.9	91.0	54.9	No significant trend
Monthly minimum temp (^{O}F)	-4.2	63.3	33.5	No significant trend
Monthly average temp (^{O}F)	6.4	77.2	44.2	No significant trend
Number of days <40 ^{O}F	193	253	226	No significant trend
Number of days <35 ^{O}F	165	222	193	No significant trend
Number of days <30 ^{O}F	127	184	154	No significant trend
Number of days <25 ^{O}F	86	148	115	No significant trend
Number of days <20 ^{O}F	51	108	83	Linear, decreasing, 1 day / 10 yrs
Number of days <10 ^{O}F	13	61	38	Linear, decreasing, 1 day / 10 yrs
Number of days <0 ^{O}F	3	39	17	Linear, decreasing, 1 day / 12 yrs
Number of days <-10 ^{O}F	0	22	7	Curvilinear, lows during 1970s-1980s
Number of days <-20 ^{O}F	0	7	2	Linear, decreasing 1 day / 45 yrs
Number of days >65 ^{O}F	105	156	132	No significant trend
Number of days >70 ^{O}F	53	130	97	No significant trend
Number of days >75 ^{O}F	26	110	71	Curvilinear, highs during 1950s
Number of days >80 ^{O}F	7	82	43	Curvilinear, highs during 1950s
Number of days >85 ^{O}F	0	53	18	Curvilinear, highs during 1940s to 1950s
Number of days >90 ^{O}F	0	28	4	Curvilinear, highs during 1940s to 1950s
Daily maximum temp (^{O}F)	-22	101	54.9	---
Daily minimum temp (^{O}F)	-40	77	33.5	---
Daily average temp (^{O}F)	-26	86.5	44.2	---
Jan monthly precipitation (in)	0	4.78	1.20	No significant trend
Feb monthly precipitation (in)	0.17	4.31	1.20	Linear, increasing 1 in / 90 yrs

Table 14. Summary of climatic data (1909-1999) for Lead, SD (continued).

Property	Min. Value	Max. Value	Average Value	Significant Trend (1909-1999) or Comment
Mar monthly precipitation (in)	0.18	7.59	2.04	Curvilinear, lows during 1920s
Apr monthly precipitation (in)	0.59	7.82	3.32	Linear, increasing 1 in / 75 yrs
May monthly precipitation (in)	0.47	15.31	4.09	No significant trend
Jun monthly precipitation (in)	0.81	12.19	4.02	No significant trend
Jul monthly precipitation (in)	0.43	8.78	2.61	No significant trend
Aug monthly precipitation (in)	0.22	7.77	2.03	No significant trend
Sep monthly precipitation (in)	0.04	5.38	1.79	No significant trend
Oct monthly precipitation (in)	0.00	9.30	1.89	Curvilinear, lows during 1940s+1950s
Nov monthly precipitation (in)	0.03	6.30	1.45	Linear, increasing 1 in / 90 yrs
Dec monthly precipitation (in)	0.12	3.90	1.26	Curvilinear, lows during 1920s
Yearly precipitation (in)	12.84	42.78	26.90	Linear, increasing 1 in / 10 yrs
1-day max precip (in)	0.76	5.73	2.29	No significant trend
7-day max precip (in) – Jan	0.00	2.71	0.77	No significant trend
7-day max precip (in) – Feb	0.17	4.14	0.82	Linear, increasing 1 in / 135 yrs
7-day max precip (in) – Mar	0.25	5.91	1.31	Linear, increasing 1 in / 115 years
7-day max precip (in) – Apr	0.43	6.43	2.23	No significant trend
7-day max precip (in) – May	0.36	10.12	2.59	No significant trend
7-day max precip (in) – Jun	0.63	10.27	2.58	No significant trend
7-day max precip (in) – Jul	0.21	5.19	1.63	No significant trend
7-day max precip (in) – Aug	0.20	6.62	1.43	No significant trend
7-day max precip (in) – Sep	0.08	4.76	1.28	No significant trend
7-day max precip (in) – Oct	0.11	7.07	1.41	Curvilinear, lows during 1940s
7-day max precip (in) – Nov	0.04	3.77	0.99	Linear, increasing 1 in / 160 yrs
7-day max precip (in) – Dec	0.11	2.66	0.80	Curvilinear, lows during 1930s+1940s
Yearly monthly max precip (in)	1.82	10.27	4.09	Linear, increasing 1 in / 65 yrs
Number of days/yr >1 in precip	---	---	4.01	---
Number of days/yr >2 in precip	---	---	0.85	(Almost 1 day / yr)
Number of days/yr >3 in precip	---	---	0.25	(1 day every 4 years)
Number of days/yr >4 in precip	---	---	0.13	(1 day every 8 years)
Number of days/yr >5 in precip	---	---	0.07	(1 day every 14 years)
Growing Degree Days (40^{O}F)	---	---	3680	---
Average snowfall (in/yr)	---	---	125	---
Spring freeze date (≤28 ^{O}F)	---	---	May 18	(20% chance of a later date)
Fall freeze date (≤28 ^{O}F)	---	---	Sep 19	(20% chance of an earlier date)
Growing season (>28 ^{O}F) (days)	---	---	130	(20% chance of being shorter)

The daily climatic data gathered and the results obtained in this study were similar to those published elsewhere (NWCC, 2001; Meland, 1979, and Spuhler, 1971). The data analyzed in this study was from a longer time period than used in previous studies. As a result, some of the climatic averages found in this report do vary from those published in the previous reports.

The climate present at the two studied weather stations should be similar to the climate present at the GEMSS. Elevations at the GEMSS and at Lead and Deadwood are similar and these two weather stations were located less than five miles from the GEMSS. The climatic properties for Lead and Deadwood, SD described in this report are typical for the northern Black Hills and represent the conditions at GEMSS.

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APPENDICES

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	45	24	43	9	24	13	44	21	22	9	45	0	50	16	47	21	29	10
Jan	2	30	11	51	18	39	5	47	25	19	-10	52	19	42	6	25	-5	35	14
Jan	3	28	-2	35	14	29	13	53	22	32	-9	40	26	8	-11	-6	-22	32	14
Jan	4	31	9	28	17	41	12	50	22	46	-7	47	17	0	-10	-6	-21	37	8
Jan	5	40	5	36	0	51	19	43	23	53	23	41	23	20	-1	17	-12	22	4
Jan	6	29	17	25	5	49	21	38	24	36	25	55	17	38	18	23	-11	33	0
Jan	7	28	20	34	4	42	26	42	15	38	22	61	28	51	33	34	7	31	7
Jan	8	43	8	51	7	40	8	38	26	40	24	40	33	58	10	39	14	37	15
Jan	9	46	25	44	16	51	9	40	16	51	21	41	21	10	-4	50	26	50	17
Jan	10	53	27	39	11	52	19	45	16	60	28	52	12	3	-14	43	12	36	8
Jan	11	43	21	35	-1	48	20	26	17	40	29	41	22	5	-9	38	19	34	10
Jan	12	36	16	43	2	52	27	44	8	34	26	21	10	27	-3	42	13	38	20
Jan	13	54	22	57	13	47	33	50	23	34	20	38	12	55	14	34	-5	35	14
Jan	14	48	30	48	22	45	29	31	27	18	5	50	14	54	18	30	-10	41	15
Jan	15	44	25	46	18	51	13	51	13	23	-6	20	18	56	14	30	-20	41	26
Jan	16	29	-15	50	18	43	23	42	16	38	-3	23	-7	16	-4	19	-8	46	26
Jan	17	-13	-28	59	23	44	22	56	22	48	17	29	-8	18	-9	32	-13	34	16
Jan	18	-2	-30	54	21	47	18	47	25	57	16	19	-9	38	9	12	-8	42	28
Jan	19	26	-15	51	34	24	19	52	18	43	22	40	-3	19	-11	27	-1	42	18
Jan	20	20	-25	56	27	38	9	25	15	26	13	37	12	7	-21	49	3	30	10
Jan	21	52	-11	48	17	35	3	37	10	40	4	40	24	-10	-21	59	37	34	6
Jan	22	51	14	49	18	49	22	53	9	53	25	25	15	32	-10	55	32	44	19
Jan	23	53	12	60	21	53	24	31	22	53	24	28	19	20	-15	42	19	35	18
Jan	24	48	-11	48	18	43	19	46	9	52	32	21	6	-12	-26	45	-5	32	18
Jan	25	29	-5	38	26	49	20	20	17	46	22	14	8	4	-23	4	-20	36	22
Jan	26	43	5	33	24	25	19	33	-10	52	35	5	-13	15	-12	-1	-20	52	14
Jan	27	45	15	28	18	27	16	31	7	32	12	18	-19	40	4	26	-4	25	-18
Jan	28	48	17	39	14	27	15	44	9	22	13	37	-17	20	-4	39	-3	0	-22
Jan	29	33	12	30	6	15	1	31	12	16	6	46	4	28	-12	5	-16	-7	-24
Jan	30	22	7	35	0	22	-5	24	4	32	2	48	14	32	10	14	-7	7	-12
Jan	31	33	10	37	8	28	-7	34	5	26	2	35	15	29	9	14	-7	9	-12
Feb	32	46	40	50	17	29	1	52	14	36	-10	25	18	18	-10	19	-7	-7	-13
Feb	33	47	30	46	15	55	13	43	19	50	5	13	4	12	-6	18	-4	26	-8
Feb	34	51	21	53	17	48	19	47	29	11	2	20	-1	29	-8	31	3	39	12
Feb	35	34	14	52	18	42	16	52	22	42	0	33	0	21	-6	36	8	45	13
Feb	36	34	23	50	15	57	17	25	13	53	5	11	0	32	2	58	27	41	16
Feb	37	47	18	54	15	31	30	44	5	30	27	24	-6	29	3	44	22	45	1
Feb	38	54	37	48	20	49	14	45	11	27	-14	23	-4	32	14	55	22	16	-2
Feb	39	49	13	41	20	60	16	42	3	13	-8	45	0	41	3	41	13	44	7
Feb	40	13	-5	27	21	34	32	45	7	21	-3	30	10	29	4	46	16	43	27
Feb	41	28	-5	8	-7	41	14	38	8	40	1	15	-10	30	5	36	23	61	32
Feb	42	39	17	27	-16	46	20	31	6	45	5	22	-17	43	28	48	21	67	32
Feb	43	36	22	28	-15	39	17	26	2	55	15	37	-11	52	-14	na	na	57	6
Feb	44	48	27	26	3	44	26	32	4	55	29	36	-1	6	-20	42	12	16	1
Feb	45	55	29	33	2	36	20	43	14	52	27	51	19	22	-9	36	13	30	3
Feb	46	54	24	26	-3	29	11	58	29	49	27	51	20	30	3	41	19	56	16
Feb	47	58	21	39	-4	10	-2	49	20	47	24	50	24	33	1	50	21	64	20
Feb	48	62	22	20	1	20	-8	47	16	30	22	61	24	46	12	62	21	56	17
Feb	49	65	25	34	-6	28	3	48	22	27	5	57	33	53	4	43	14	45	18
Feb	50	58	25	47	-1	31	-3	40	23	16	4	21	4	15	-4	56	21	50	21

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	51	33	41	7	34	6	57	19	29	2	42	4	10	-6	63	29	39	19
Feb	52	68	28	32	12	30	9	50	29	37	9	48	8	32	10	44	14	46	23
Feb	53	54	25	46	9	37	15	53	29	28	19	52	20	56	22	34	15	57	18
Feb	54	27	18	47	10	38	15	55	25	20	-1	19	18	58	35	38	29	28	13
Feb	55	23	12	50	18	32	9	58	28	14	-10	31	7	48	23	39	18	47	15
Feb	56	31	8	31	19	37	4	39	32	9	-2	49	8	47	20	na	na	54	19
Feb	57	42	23	33	12	38	1	30	23	15	2	61	20	51	23	na	na	47	17
Feb	58	43	20	36	11	43	4	46	16	24	-2	32	27	39	11	na	na	40	19
Feb	59	35	19	35	11	40	12	46	23	16	-3	26	13	35	15	na	na	25	9
Mar	60	25	-5	43	12	41	18	56	26	21	-2	31	5	55	19	30	16	30	6
Mar	61	15	-18	56	12	29	16	62	32	32	-2	40	6	52	16	25	6	36	11
Mar	62	37	11	32	17	42	12	42	31	27	15	14	8	56	23	59	20	28	0
Mar	63	35	1	58	10	38	8	32	22	17	5	22	10	53	27	52	34	34	2
Mar	64	4	-6	50	12	4	-13	41	16	14	0	26	4	52	26	64	27	41	12
Mar	65	16	-10	33	20	30	-14	42	17	19	-2	22	5	44	29	69	42	49	0
Mar	66	33	-9	23	5	36	-6	30	15	35	4	25	0	50	31	54	9	25	-4
Mar	67	38	14	26	3	49	10	41	12	36	9	30	6	41	25	18	-3	10	-8
Mar	68	30	14	40	13	50	12	51	25	42	17	19	8	30	15	26	2	38	3
Mar	69	42	-3	56	20	58	19	59	16	47	21	5	-3	25	-3	14	5	61	0
Mar	70	43	8	59	29	48	24	64	32	40	27	8	-17	23	2	14	-2	30	0
Mar	71	47	19	32	19	60	25	59	27	39	20	39	-18	36	12	6	-13	29	2
Mar	72	53	19	48	5	60	25	50	34	41	23	52	-1	33	14	17	-5	29	7
Mar	73	39	17	15	11	57	22	51	27	32	1	55	26	23	-4	30	10	40	21
Mar	74	17	-1	13	-3	48	26	42	27	34	2	53	26	29	-9	41	16	45	29
Mar	75	10	-5	33	3	34	28	38	29	32	19	58	24	43	9	43	24	51	27
Mar	76	18	-2	41	8	39	12	40	24	43	24	42	22	22	11	51	16	35	16
Mar	77	15	-5	45	33	48	20	50	12	32	24	43	19	36	15	31	9	32	8
Mar	78	30	-2	51	8	48	17	67	25	41	15	51	25	58	25	27	3	26	5
Mar	79	32	7	51	10	59	20	66	32	42	17	52	24	61	32	46	18	21	8
Mar	80	46	4	35	29	69	24	33	29	57	25	39	27	56	30	34	10	47	13
Mar	81	51	16	32	19	68	29	49	23	64	28	44	13	47	27	42	16	60	31
Mar	82	54	21	47	10	49	32	53	22	35	32	64	27	56	28	55	27	48	22
Mar	83	59	27	56	13	43	29	49	27	42	17	62	27	44	24	37	15	41	19
Mar	84	55	30	23	15	47	29	48	29	30	20	67	30	32	16	47	24	54	26
Mar	85	48	27	47	15	51	32	64	27	32	12	38	31	48	20	42	24	57	31
Mar	86	53	24	32	13	34	30	75	32	44	12	25	15	45	20	28	19	63	33
Mar	87	70	31	25	12	49	26	70	32	52	20	55	15	39	24	27	19	45	21
Mar	88	77	39	18	-3	47	30	65	32	57	23	58	15	39	19	32	20	37	17
Mar	89	72	49	34	-8	57	25	67	28	62	25	60	27	40	19	39	8	41	15
Mar	90	58	22	45	6	61	31	74	32	52	27	38	29	35	14	51	27	43	13
Apr	91	58	31	53	32	55	22	52	38	53	29	40	11	39	12	49	22	43	23
Apr	92	70	30	47	30	21	14	56	31	60	28	43	25	47	16	60	33	41	16
Apr	93	77	39	51	21	23	2	44	29	42	27	65	21	51	21	44	21	48	24
Apr	94	73	34	60	22	34	5	53	25	39	30	65	21	56	22	27	14	63	30
Apr	95	66	30	58	24	52	15	57	27	40	20	na	na	53	25	30	6	60	34
Apr	96	75	38	75	26	56	14	67	39	37	15	57	24	67	38	50	28	48	32
Apr	97	72	28	50	30	56	24	50	33	38	17	50	26	59	33	63	25	48	22
Apr	98	77	37	61	28	67	39	47	33	50	17	35	27	67	34	46	25	40	16
Apr	99	51	45	54	31	40	30	49	29	53	34	53	12	58	32	65	32	48	24
Apr	100	51	41	46	30	30	25	41	31	50	31	65	25	38	26	42	26	51	23

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	50	35	51	29	43	19	58	21	62	27	44	36	55	25	37	13	31	15
Apr	102	59	31	58	21	40	20	72	31	45	25	45	26	74	36	48	23	29	10
Apr	103	64	28	75	27	32	23	74	38	55	30	45	27	62	31	43	25	55	23
Apr	104	57	19	54	33	37	17	53	35	69	29	60	19	38	30	62	39	65	25
Apr	105	72	34	52	27	52	21	62	27	35	28	63	25	44	23	73	36	31	15
Apr	106	64	28	42	25	40	20	70	38	61	19	69	34	57	31	54	34	34	7
Apr	107	64	30	43	21	33	21	65	39	68	29	77	31	62	35	61	33	58	27
Apr	108	55	26	42	19	54	17	75	37	67	34	79	37	51	25	70	28	58	29
Apr	109	72	29	51	24	61	28	65	42	59	30	64	36	66	33	39	24	40	27
Apr	110	79	46	57	25	64	37	70	49	56	31	46	37	78	35	43	21	36	15
Apr	111	70	36	58	27	73	35	69	38	35	32	63	27	66	30	60	34	27	18
Apr	112	69	36	37	33	52	41	55	35	37	26	69	35	51	33	66	31	37	18
Apr	113	79	29	46	29	52	25	63	32	44	27	78	32	63	29	65	34	50	25
Apr	114	75	45	44	25	46	32	70	34	57	28	53	44	na	na	60	29	49	27
Apr	115	60	27	53	26	44	30	71	36	63	25	55	32	72	39	33	20	42	29
Apr	116	56	39	55	24	49	21	77	44	65	31	57	34	65	32	39	21	52	30
Apr	117	54	32	50	30	64	28	65	42	68	36	49	31	67	37	34	20	64	42
Apr	118	67	58	61	30	55	31	68	34	65	30	59	27	73	39	42	24	71	35
Apr	119	60	39	55	42	57	29	74	37	72	37	79	36	81	55	30	19	74	41
Apr	120	58	30	57	33	69	29	77	52	52	38	73	46	86	42	30	10	79	46
May	121	77	44	48	40	65	37	44	31	65	33	58	42	46	31	37	15	59	38
May	122	59	42	55	36	48	29	56	32	82	33	52	32	62	33	48	31	60	33
May	123	71	34	42	33	55	22	56	32	74	48	57	30	77	42	55	24	55	32
May	124	71	50	37	28	72	28	57	29	74	35	57	31	68	41	36	24	61	32
May	125	67	36	45	27	71	37	46	34	72	34	62	29	63	38	36	27	65	33
May	126	50	33	63	17	64	33	47	31	55	35	53	32	51	38	40	29	58	25
May	127	52	28	59	32	42	30	57	25	65	33	64	26	56	30	53	28	54	26
May	128	44	30	58	24	49	23	64	33	61	36	67	33	57	34	35	25	64	40
May	129	61	26	62	28	45	27	46	43	72	34	58	47	65	34	42	30	67	42
May	130	57	32	78	38	72	27	46	24	72	45	33	30	71	37	54	27	55	32
May	131	52	23	72	49	58	44	65	22	53	51	41	28	73	38	59	27	62	30
May	132	45	12	71	47	65	39	68	32	60	41	53	28	75	43	67	34	69	42
May	133	45	22	73	45	56	30	62	34	69	32	61	29	81	45	64	30	73	49
May	134	55	22	86	42	45	25	54	32	63	38	74	29	69	38	74	40	64	37
May	135	51	32	75	43	52	27	54	33	63	37	67	41	78	45	65	40	61	46
May	136	46	30	83	45	58	31	59	41	75	35	63	33	75	44	67	38	60	45
May	137	45	32	74	47	70	42	70	34	68	46	77	34	65	45	65	33	62	44
May	138	57	25	72	49	73	44	54	42	64	44	94	43	68	35	78	55	66	48
May	139	60	28	63	43	60	42	48	34	50	37	94	55	50	36	65	34	67	44
May	140	67	28	66	44	59	31	62	42	63	35	90	67	62	39	61	38	65	40
May	141	73	36	68	41	60	34	73	33	65	36	68	59	66	43	62	34	61	37
May	142	79	39	69	38	66	25	73	42	54	37	85	46	54	36	76	42	64	35
May	143	72	45	78	38	79	35	46	45	63	28	81	57	62	29	81	47	73	41
May	144	58	39	68	44	77	38	62	34	67	31	75	43	56	28	76	35	80	45
May	145	62	34	54	49	78	37	77	28	65	37	65	49	69	36	43	33	70	46
May	146	65	33	61	35	63	45	72	42	60	33	69	42	73	38	55	27	60	32
May	147	85	43	69	35	58	44	80	52	51	36	76	42	80	42	67	31	65	32
May	148	86	47	74	40	63	36	68	58	47	24	55	42	78	50	70	40	80	57
May	149	79	50	72	48	67	33	61	44	59	22	56	44	88	49	68	44	84	43
May	150	68	51	82	47	62	40	45	39	75	26	60	42	77	50	69	41	62	45

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	71	49	82	46	75	39	44	38	73	44	74	44	82	53	55	35	47	37
June	152	67	41	83	47	51	45	49	34	68	42	83	43	72	37	62	32	42	30
June	153	67	49	84	44	53	34	54	34	73	42	90	51	60	42	68	39	34	28
June	154	62	30	71	48	63	40	73	32	78	45	88	54	62	40	60	27	51	25
June	155	45	30	61	50	60	42	83	49	65	45	78	57	65	35	70	34	53	28
June	156	54	35	40	35	58	41	83	49	72	37	78	45	76	41	78	43	62	36
June	157	52	37	44	33	61	40	89	63	78	43	74	49	77	46	87	52	66	44
June	158	64	45	60	28	60	37	72	39	76	41	77	47	66	45	92	44	69	43
June	159	66	38	54	40	61	41	79	35	87	53	81	45	64	43	49	39	69	38
June	160	67	39	49	44	70	44	87	54	62	50	83	45	70	46	48	38	63	34
June	161	78	41	61	38	65	40	83	63	47	37	85	54	78	46	74	32	67	40
June	162	78	43	68	47	72	36	71	52	55	30	80	54	85	46	78	46	72	42
June	163	69	51	64	41	78	42	64	48	59	32	77	55	88	53	86	50	67	38
June	164	76	41	76	43	57	31	72	41	67	30	68	47	64	42	84	55	74	45
June	165	76	43	78	43	57	33	87	54	72	42	75	46	67	38	78	46	74	41
June	166	71	39	79	45	57	35	84	50	69	46	72	44	75	42	85	49	74	45
June	167	60	40	78	42	55	30	77	60	78	45	70	44	81	43	77	49	83	50
June	168	82	41	70	51	73	35	65	53	77	52	68	47	88	44	63	50	70	42
June	169	88	46	60	53	73	32	42	39	71	52	65	52	67	45	65	53	68	42
June	170	85	55	57	41	70	42	56	35	82	45	52	38	74	50	59	40	64	44
June	171	84	58	80	34	77	40	67	34	63	57	53	33	85	50	70	41	65	42
June	172	84	53	77	53	85	49	79	35	55	47	62	45	74	41	74	45	56	40
June	173	96	70	71	51	93	54	93	48	57	40	65	40	82	47	84	51	53	44
June	174	93	55	76	55	70	59	87	55	68	40	59	48	90	44	75	39	60	38
June	175	82	54	80	40	64	48	78	56	71	39	66	49	73	44	83	50	58	41
June	176	92	59	85	44	80	44	78	43	83	43	65	43	78	49	79	52	82	41
June	177	81	52	88	46	79	46	77	49	79	48	69	47	91	49	70	44	66	42
June	178	71	49	88	50	70	47	81	29	73	45	67	38	90	48	74	45	78	40
June	179	67	38	64	52	62	42	81	46	60	48	70	45	77	42	75	43	60	34
June	180	74	45	65	35	49	39	85	58	59	43	73	43	90	58	71	40	62	38
June	181	81	55	80	41	62	43	71	50	70	38	75	47	91	45	76	41	61	46
July	182	81	42	88	56	68	39	84	53	80	37	90	44	82	55	83	50	70	38
July	183	80	44	91	52	84	39	80	57	93	47	90	57	95	65	78	49	73	48
July	184	78	56	75	59	84	45	83	54	97	58	88	59	98	57	75	49	72	47
July	185	73	45	71	47	79	47	78	53	74	57	89	54	95	59	69	41	71	49
July	186	75	46	78	48	69	42	85	53	79	47	90	50	80	56	75	47	76	52
July	187	83	45	92	52	76	36	86	55	86	50	99	59	78	56	76	48	80	57
July	188	85	54	78	51	81	40	85	50	88	64	98	76	87	51	87	49	85	54
July	189	82	52	71	53	87	44	90	65	90	59	91	63	86	54	88	59	83	50
July	190	88	50	70	46	65	47	83	62	84	60	84	60	80	45	89	59	74	49
July	191	88	53	77	45	75	40	73	55	84	55	84	55	87	54	90	57	59	45
July	192	87	61	67	49	82	47	87	45	89	53	87	57	73	53	93	58	47	41
July	193	85	58	68	51	80	48	93	56	89	53	87	55	77	47	75	48	55	46
July	194	80	47	78	40	81	46	85	60	89	51	81	54	83	49	63	32	67	39
July	195	89	38	81	53	84	52	77	54	93	53	84	46	75	48	79	45	84	49
July	196	86	57	71	50	83	55	89	62	94	65	70	58	77	48	85	51	93	62
July	197	79	48	81	45	86	50	87	61	83	62	70	47	81	55	72	50	90	51
July	198	80	41	84	50	93	52	83	61	79	50	69	44	97	56	59	39	91	58
July	199	85	49	90	50	84	52	77	59	83	47	77	43	89	45	69	50	87	56
July	200	89	50	80	48	75	62	81	44	87	56	75	46	79	57	65	40	93	60

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		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	94	55	80	48	80	54	83	49	78	49	82	53	92	50	79	56	101	62
July	202	89	56	78	48	95	54	87	46	77	45	86	57	92	45	72	44	85	53
July	203	92	65	82	55	97	64	93	51	83	52	75	45	80	44	74	44	74	49
July	204	85	60	81	47	91	56	68	52	84	48	77	50	92	65	74	40	74	41
July	205	93	50	84	44	90	55	79	52	90	53	88	54	99	68	72	47	81	52
July	206	95	59	92	48	90	55	83	57	81	57	89	61	102	59	73	41	96	54
July	207	92	66	83	53	86	58	96	57	90	53	89	47	81	50	77	42	94	54
July	208	89	58	78	51	72	46	89	58	98	62	78	41	89	53	80	48	90	53
July	209	88	57	78	48	81	49	91	51	102	65	85	44	90	48	88	52	87	64
July	210	89	52	88	45	82	61	95	57	87	62	69	62	74	50	88	56	92	67
July	211	88	50	93	51	97	53	98	64	87	51	65	49	82	50	78	43	95	52
July	212	95	60	89	55	82	56	99	70	91	53	77	44	91	52	71	51	85	61
Aug	213	96	69	80	54	80	49	85	49	90	56	80	46	94	47	60	55	92	54
Aug	214	93	59	93	52	82	52	93	54	95	59	80	50	83	45	72	41	95	56
Aug	215	78	51	83	59	86	59	77	52	99	67	66	44	83	53	84	45	82	na
Aug	216	84	47	81	52	72	60	70	50	97	63	64	39	90	54	88	48	84	64
Aug	217	90	58	78	44	71	50	89	43	84	59	67	45	95	65	85	48	92	59
Aug	218	93	62	83	44	72	42	95	52	87	58	73	52	96	56	90	54	84	51
Aug	219	89	57	96	54	75	49	76	54	99	61	74	50	103	70	91	43	88	52
Aug	220	85	61	92	63	83	53	75	42	97	68	82	52	102	59	87	52	84	48
Aug	221	90	52	99	56	79	52	72	50	100	60	85	55	83	49	86	54	75	47
Aug	222	92	48	96	69	88	50	80	44	73	62	78	49	na	na	87	54	76	48
Aug	223	92	65	88	48	86	49	84	50	74	52	78	45	89	49	77	53	73	48
Aug	224	92	53	84	48	83	54	82	56	89	57	78	46	92	50	75	55	76	50
Aug	225	91	47	92	49	73	60	86	57	94	48	81	48	90	58	78	46	72	46
Aug	226	92	58	78	49	77	49	87	47	84	52	77	47	91	57	76	45	82	46
Aug	227	89	49	74	48	79	52	83	42	90	48	81	44	87	55	84	45	61	42
Aug	228	77	44	70	43	84	49	92	49	85	53	89	48	84	46	89	49	72	51
Aug	229	88	45	70	48	95	49	75	44	78	54	90	59	83	61	80	45	77	47
Aug	230	92	64	83	38	89	46	76	40	86	52	95	52	80	54	73	47	na	na
Aug	231	89	58	97	44	85	59	86	41	90	52	92	54	74	na	75	40	na	na
Aug	232	88	49	81	60	64	51	90	48	93	54	97	68	76	47	61	36	81	47
Aug	233	87	49	79	49	62	41	87	55	98	55	97	53	84	50	72	39	65	36
Aug	234	90	56	84	47	75	37	88	55	90	53	86	52	96	49	75	49	73	45
Aug	235	92	52	69	50	82	40	85	51	88	51	91	60	97	56	80	48	86	59
Aug	236	81	59	70	52	76	46	79	52	68	42	93	63	100	62	89	43	90	49
Aug	237	81	58	82	56	84	53	71	52	84	40	94	57	80	54	78	48	na	na
Aug	238	77	44	76	61	79	52	69	44	87	62	90	44	89	49	76	45	na	na
Aug	239	84	47	75	41	78	45	50	48	80	52	80	47	76	45	62	40	85	40
Aug	240	90	50	77	43	82	41	52	42	89	59	81	46	77	46	75	43	82	49
Aug	241	88	49	80	42	85	45	53	44	92	52	90	50	77	47	72	43	80	54
Aug	242	92	65	59	46	94	44	74	34	90	53	91	51	76	38	79	47	90	57
Aug	243	89	50	65	47	82	36	79	37	84	57	94	53	71	36	86	49	80	51
Sept	244	84	40	72	39	90	46	80	39	88	43	102	63	71	35	87	47	68	43
Sept	245	80	46	84	37	90	54	75	39	92	45	84	51	83	39	91	49	69	43
Sept	246	69	45	75	46	87	49	84	41	86	52	90	48	85	51	87	48	65	42
Sept	247	80	40	77	48	88	55	83	39	89	53	90	55	56	46	87	64	68	43
Sept	248	51	42	76	44	88	50	73	49	90	51	94	55	63	44	91	62	62	39
Sept	249	67	41	71	41	72	54	70	42	87	50	85	44	63	49	92	53	65	37
Sept	250	61	40	74	38	58	48	54	45	96	59	73	43	54	44	86	51	69	48

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		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	52	35	87	40	79	39	59	46	69	51	60	37	58	44	76	48	77	42
Sept	252	67	26	85	43	55	37	55	40	77	49	62	34	70	41	75	50	82	42
Sept	253	76	30	68	47	68	40	72	34	69	46	66	37	84	48	72	38	67	39
Sept	254	77	40	60	45	67	37	81	38	65	45	67	37	75	42	43	35	80	50
Sept	255	72	32	67	33	53	40	85	44	79	35	76	42	56	26	42	28	59	33
Sept	256	86	36	69	36	61	32	82	45	77	45	92	46	46	25	59	32	56	38
Sept	257	82	35	79	37	70	35	89	42	52	35	82	44	63	28	60	32	62	36
Sept	258	65	30	84	39	72	39	83	56	67	26	87	49	68	34	60	36	61	31
Sept	259	66	28	57	46	63	55	85	54	79	38	94	53	80	44	44	36	64	31
Sept	260	90	44	79	33	49	39	62	50	64	34	96	46	87	37	52	34	74	34
Sept	261	84	50	64	43	40	36	56	39	83	44	82	50	64	33	73	42	74	42
Sept	262	59	28	57	39	52	27	59	31	68	47	83	49	66	35	68	46	72	42
Sept	263	76	34	68	40	64	29	69	34	65	41	87	50	84	46	77	49	73	43
Sept	264	72	44	77	32	71	31	66	37	64	37	64	45	65	34	53	41	53	33
Sept	265	62	41	69	36	64	45	47	33	77	36	60	39	70	35	65	35	47	30
Sept	266	70	32	66	38	45	37	60	32	84	40	78	41	71	36	70	37	55	32
Sept	267	75	37	72	39	52	29	72	37	59	35	79	57	79	44	72	36	46	31
Sept	268	87	42	79	35	60	27	78	41	66	36	79	41	83	42	72	38	63	33
Sept	269	88	44	81	37	57	28	83	43	75	45	64	50	84	38	76	38	77	41
Sept	270	79	41	77	39	32	24	57	44	68	47	82	54	66	35	75	39	48	23
Sept	271	85	45	52	44	60	17	59	33	67	41	84	59	69	27	58	25	42	22
Sept	272	76	47	65	29	58	24	65	30	45	38	72	37	68	34	57	31	69	40
Sept	273	74	44	78	32	60	30	84	40	64	32	77	40	80	46	38	31	74	42
Oct	274	76	39	39	37	58	17	86	39	70	43	79	43	72	45	45	27	79	45
Oct	275	80	40	34	24	71	29	72	54	78	35	58	37	67	36	38	22	82	44
Oct	276	83	40	50	25	77	37	61	37	74	47	68	39	71	40	38	25	72	38
Oct	277	80	40	72	24	72	55	52	38	78	43	83	37	58	35	36	19	53	41
Oct	278	85	46	70	25	74	37	34	30	88	46	84	43	68	46	61	33	46	37
Oct	279	77	39	77	34	68	31	39	28	77	37	75	51	83	32	69	39	49	31
Oct	280	78	37	58	35	47	39	32	24	73	33	57	31	59	31	53	37	61	31
Oct	281	79	40	67	27	48	27	51	18	79	43	40	31	45	27	60	30	60	29
Oct	282	79	38	69	26	67	30	52	28	69	36	56	33	49	30	71	39	70	32
Oct	283	82	37	68	33	61	37	33	27	84	45	61	25	63	38	66	31	76	39
Oct	284	77	43	56	34	74	34	43	23	50	43	62	22	51	26	74	39	75	35
Oct	285	71	36	65	22	70	34	41	25	62	30	57	23	54	28	69	39	75	37
Oct	286	61	34	73	24	69	37	43	32	78	34	64	27	68	33	80	42	74	42
Oct	287	50	28	74	34	65	35	62	26	69	44	66	32	45	22	78	40	59	34
Oct	288	53	21	75	34	80	34	33	28	55	43	72	31	62	30	73	45	83	38
Oct	289	72	34	74	34	73	40	38	24	74	35	78	41	76	30	83	33	68	24
Oct	290	76	29	73	39	72	40	46	29	66	45	57	22	54	33	66	44	39	27
Oct	291	69	38	63	39	42	37	51	23	78	29	34	17	59	37	79	38	45	28
Oct	292	58	32	48	32	58	23	62	23	80	36	54	26	49	24	71	31	49	28
Oct	293	49	30	61	22	44	31	67	28	80	46	67	27	27	20	72	39	55	30
Oct	294	58	22	62	23	44	19	68	31	80	53	72	29	29	15	73	34	34	23
Oct	295	54	29	73	25	49	22	61	29	66	28	60	24	48	17	41	33	31	19
Oct	296	55	23	64	40	43	25	52	40	47	27	72	29	na	na	63	30	46	21
Oct	297	51	23	68	25	47	19	54	28	45	27	74	31	59	25	72	24	57	27
Oct	298	69	25	75	35	42	25	53	34	55	28	78	40	61	33	58	28	67	32
Oct	299	71	53	72	33	62	28	41	29	55	22	76	38	42	26	67	34	35	24
Oct	300	70	44	65	31	60	40	35	30	60	30	57	25	68	29	69	30	33	23

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	63	42	81	31	64	41	42	29	70	30	67	29	58	29	73	41	58	30
Oct	302	74	30	75	33	60	24	44	31	72	34	52	25	65	34	72	47	64	27
Oct	303	50	28	65	38	57	37	44	20	45	41	56	28	46	27	75	43	64	18
Oct	304	31	22	71	31	57	38	50	23	54	35	54	34	45	26	77	34	25	15
Nov	305	33	23	71	31	46	30	49	21	69	25	58	24	64	42	49	25	26	5
Nov	306	49	10	57	31	55	24	52	18	73	34	63	29	51	31	48	27	10	-1
Nov	307	57	20	42	29	57	25	47	16	38	32	59	30	57	30	30	10	37	10
Nov	308	44	29	31	21	65	28	50	8	42	27	63	28	70	30	48	15	36	5
Nov	309	45	28	70	23	66	34	54	22	31	19	59	29	66	27	na	na	37	5
Nov	310	37	22	70	25	42	28	50	24	30	19	43	26	67	28	60	24	35	30
Nov	311	24	18	52	25	22	20	44	27	32	13	38	25	70	30	43	27	36	12
Nov	312	40	7	38	32	22	12	28	24	39	19	39	19	67	33	47	17	59	19
Nov	313	42	29	48	32	50	6	32	21	30	16	32	4	64	28	20	2	50	24
Nov	314	56	20	54	23	35	7	34	20	35	10	34	8	60	38	13	2	55	24
Nov	315	50	30	62	24	48	28	32	14	22	18	33	23	73	32	34	4	52	28
Nov	316	49	25	63	41	45	25	39	16	29	4	29	12	na	na	28	18	60	26
Nov	317	48	17	63	25	36	12	54	17	45	15	41	18	na	na	33	9	54	28
Nov	318	46	23	33	25	48	20	58	20	41	17	45	19	55	22	51	15	34	27
Nov	319	50	23	26	18	60	19	45	27	32	21	49	19	42	30	52	30	38	20
Nov	320	60	25	37	13	38	26	38	16	25	5	60	30	51	27	35	12	24	10
Nov	321	63	28	45	5	44	22	52	15	35	9	49	25	45	26	49	31	27	-2
Nov	322	53	31	45	6	48	17	63	31	37	9	57	24	53	26	51	36	39	10
Nov	323	59	25	50	12	50	21	39	21	23	18	47	21	62	39	50	14	54	18
Nov	324	49	30	50	12	25	21	33	19	19	14	24	5	40	27	34	10	59	na
Nov	325	53	24	40	14	21	13	35	6	24	7	32	5	36	15	52	27	60	20
Nov	326	47	27	49	19	29	6	46	18	30	-6	38	14	59	17	54	28	21	7
Nov	327	38	26	48	19	58	16	60	19	38	6	27	8	58	29	49	-6	41	14
Nov	328	49	25	61	14	57	37	31	16	41	5	48	12	56	31	13	-3	34	15
Nov	329	35	20	39	26	50	29	44	19	44	31	43	23	46	31	39	13	53	23
Nov	330	42	10	37	19	46	18	49	23	43	27	48	27	59	30	54	29	45	24
Nov	331	52	12	33	9	57	22	57	21	39	28	36	12	64	32	63	28	57	28
Nov	332	48	11	44	15	60	27	46	22	49	26	39	13	65	34	63	32	49	24
Nov	333	56	16	34	14	60	28	56	27	48	19	31	7	46	32	48	22	58	25
Nov	334	60	24	21	12	41	30	36	29	58	23	49	27	44	20	41	18	54	28
Dec	335	50	23	34	0	37	25	44	13	50	26	34	9	55	20	46	25	59	28
Dec	336	45	22	52	9	34	12	53	28	24	21	40	10	47	21	30	8	52	41
Dec	337	57	27	55	15	44	15	60	22	34	11	39	19	54	27	30	9	56	27
Dec	338	61	29	50	20	55	16	61	24	32	14	55	32	na	na	42	14	37	23
Dec	339	50	30	44	15	48	29	60	29	46	10	59	24	41	16	16	-7	38	18
Dec	340	48	15	53	19	46	20	55	32	35	12	29	12	57	21	12	-8	47	26
Dec	341	38	23	55	20	46	22	47	37	38	10	26	9	39	8	15	-6	28	15
Dec	342	39	17	42	25	21	8	44	26	21	0	29	8	na	9	33	14	19	1
Dec	343	38	12	31	24	22	2	39	25	33	1	33	9	30	15	39	27	26	-5
Dec	344	47	21	32	13	27	1	45	20	32	10	30	-2	54	19	48	21	33	-4
Dec	345	52	21	32	13	30	3	54	32	28	7	41	2	30	-6	56	29	32	22
Dec	346	38	10	31	4	21	6	19	13	34	13	39	13	9	-5	42	27	41	29
Dec	347	38	11	44	6	21	10	38	10	50	18	37	21	23	4	44	27	31	na
Dec	348	24	-5	50	31	8	8	48	14	38	28	50	21	22	3	40	24	34	-2
Dec	349	48	5	51	26	12	-13	53	26	29	19	33	13	36	5	32	13	6	-17
Dec	350	57	18	35	27	23	-4	15	13	35	13	17	3	45	17	47	22	4	-15

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1943	1943	1944	1944	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	54	16	46	16	10	-7	18	0	55	19	22	2	45	14	46	25	22	1
Dec	352	59	23	43	14	16	-6	27	1	56	25	23	1	40	15	46	29	25	-8
Dec	353	44	23	40	16	31	3	38	11	44	21	29	3	46	11	44	21	34	-9
Dec	354	48	13	59	16	45	15	42	18	51	16	30	13	19	-3	41	24	-2	-19
Dec	355	42	17	40	19	18	17	39	19	49	31	37	25	25	1	48	29	15	-19
Dec	356	27	9	44	-6	40	0	48	24	42	22	39	14	21	6	52	25	23	11
Dec	357	42	12	12	-10	48	12	48	17	47	19	27	0	30	8	53	29	33	1
Dec	358	46	20	29	-16	40	24	46	25	50	19	27	1	35	10	55	30	27	5
Dec	359	48	18	20	0	35	27	51	24	57	24	24	4	44	0	54	31	38	0
Dec	360	47	16	17	-13	42	16	58	23	58	34	22	0	29	15	50	12	30	-7
Dec	361	38	3	41	-13	46	16	20	18	56	34	41	9	32	12	22	10	27	0
Dec	362	42	6	43	6	50	19	20	-9	60	23	49	11	42	13	45	12	47	12
Dec	363	35	6	55	10	45	36	25	-14	33	26	49	18	45	18	38	27	45	19
Dec	364	39	5	39	15	38	26	14	0	29	5	24	1	59	19	34	14	38	20
Dec	365	39	10	30	13	44	20	40	-3	29	-1	37	5	na	13	48	26	34	-8
29-Feb	366			23	-4							31	2						

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	4	-13	44	16	49	27	45	20	40	10	38	22	35	12	44	10	17
Jan	2	24	-5	38	16	46	24	44	21	51	22	48	27	39	5	10	-10	28
Jan	3	30	3	35	19	44	24	50	15	52	22	43	25	41	11	-8	-21	11
Jan	4	42	3	38	28	49	17	42	16	50	33	30	8	42	17	9	-20	23
Jan	5	37	7	33	22	39	21	34	10	56	38	22	10	49	25	36	-4	31
Jan	6	35	9	35	-10	46	23	35	9	47	27	33	6	41	21	45	28	41
Jan	7	48	16	31	-9	60	25	36	10	51	29	33	15	50	18	43	18	36
Jan	8	49	14	47	18	60	30	37	11	58	28	42	9	46	25	43	19	44
Jan	9	35	13	46	20	40	2	28	11	59	20	15	-10	45	24	54	17	41
Jan	10	36	13	62	33	23	4	28	4	48	20	13	-8	50	18	na	25	42
Jan	11	45	21	47	23	35	17	31	7	53	21	40	4	43	26	51	30	47
Jan	12	45	8	62	28	20	1	27	-4	54	21	39	-1	42	17	59	25	46
Jan	13	45	18	60	29	22	3	23	-3	52	25	29	3	40	29	42	29	34
Jan	14	50	26	50	11	29	9	48	10	58	20	17	1	34	12	33	19	30
Jan	15	35	16	11	-8	40	-7	43	11	49	13	17	-5	45	12	19	4	30
Jan	16	48	34	28	-1	1	-15	35	9	na	-4	7	-11	44	28	33	na	27
Jan	17	52	11	53	20	17	-13	34	15	14	-1	17	3	50	22	40	19	23
Jan	18	36	13	39	23	51	-5	30	5	32	10	25	12	31	22	32	9	12
Jan	19	45	15	40	23	43	14	37	7	44	14	42	8	28	21	36	na	18
Jan	20	36	9	37	21	21	-18	48	19	38	21	44	12	33	12	12	-8	23
Jan	21	43	1	51	24	-4	-17	30	7	28	10	45	5	40	10	11	-15	18
Jan	22	1	-15	41	18	37	-4	19	6	30	11	16	-10	28	24	15	2	22
Jan	23	-5	-20	43	17	50	20	23	13	36	11	13	-9	37	11	48	9	35
Jan	24	16	-13	40	30	20	-11	34	20	42	11	5	-14	42	20	48	30	42
Jan	25	45	16	53	30	15	-8	30	14	33	6	-1	-20	39	23	39	19	35
Jan	26	45	16	61	30	21	0	35	8	35	7	14	-6	37	21	36	21	41
Jan	27	49	16	44	21	36	15	33	14	38	15	27	-9	36	13	43	16	41
Jan	28	41	33	32	19	40	15	32	2	40	11	16	6	40	12	48	25	43
Jan	29	45	25	42	27	54	23	40	13	na	na	19	-14	35	23	35	13	58
Jan	30	46	25	47	25	31	13	40	12	25	-6	25	-2	33	17	27	-1	40
Jan	31	58	21	45	26	48	22	50	22	17	-7	32	0	34	16	24	-1	41
Feb	32	52	20	51	31	55	27	41	23	9	-10	26	-2	30	22	26	0	34
Feb	33	51	21	48	23	47	32	42	22	20	-10	29	-4	34	4	37	2	43
Feb	34	45	28	44	27	54	33	32	15	38	8	27	3	51	20	32	21	42
Feb	35	38	22	50	33	61	31	25	3	42	12	33	6	45	21	30	15	41
Feb	36	43	25	51	19	59	28	31	3	50	22	37	6	36	18	20	10	42
Feb	37	35	21	36	15	45	32	35	10	46	20	42	18	18	7	46	4	37
Feb	38	48	25	37	15	47	23	35	8	46	17	43	13	15	3	38	0	54
Feb	39	55	21	43	21	60	31	41	31	34	19	48	19	12	2	17	-4	49
Feb	40	42	22	38	17	65	28	50	12	36	10	41	23	17	5	15	5	28
Feb	41	56	31	19	10	59	16	19	-12	39	15	36	24	33	8	31	-5	29
Feb	42	50	26	29	6	31	7	19	-10	45	18	49	20	17	4	45	18	25
Feb	43	63	27	40	9	na	7	20	0	na	na	43	17	21	-9	38	25	37
Feb	44	46	25	36	17	42	na	46	14	47	22	46	25	22	-1	26	12	44
Feb	45	28	21	36	20	58	34	43	20	27	6	54	26	9	2	38	7	38
Feb	46	33	8	36	22	57	22	49	20	21	-1	43	22	20	-11	46	20	44
Feb	47	43	9	37	20	44	20	43	17	37	-12	44	16	32	6	38	16	37
Feb	48	41	19	33	14	56	21	53	22	14	-9	40	23	41	24	21	9	32
Feb	49	38	12	46	19	59	22	46	0	30	1	36	15	40	24	15	3	18
Feb	50	30	7	29	13	58	23	4	-4	na	na	28	10	56	25	18	-1	22

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	15	5	15	0	43	16	12	-6	36	6	12	5	61	28	35	-2	24
Feb	52	29	1	16	1	50	31	19	-1	45	9	5	-6	50	33	41	10	24
Feb	53	41	7	28	5	51	30	26	-3	49	19	3	-11	63	28	36	19	25
Feb	54	30	2	43	11	41	24	35	-8	58	23	55	-5	59	28	39	7	20
Feb	55	26	1	36	17	55	28	19	-19	58	22	57	26	57	40	42	13	23
Feb	56	24	2	35	12	59	21	38	10	35	21	42	30	57	40	39	16	9
Feb	57	45	14	39	25	49	24	39	-7	39	12	52	25	46	27	41	24	12
Feb	58	56	28	46	18	45	13	37	-6	37	13	47	33	27	10	38	15	11
Feb	59	52	19	37	23	35	10	45	0	32	17	41	28	20	9	42	25	10
Mar	60	26	2	30	9	45	19	37	24	47	22	35	21	21	15	55	28	20
Mar	61	35	7	14	8	19	-7	38	11	52	30	47	15	28	9	43	24	8
Mar	62	28	1	26	7	7	-12	51	11	42	28	46	20	29	12	43	18	14
Mar	63	14	1	31	15	22	-7	37	6	41	13	32	21	32	2	33	23	2
Mar	64	25	4	36	30	28	4	24	-6	53	24	23	13	36	7	31	21	23
Mar	65	34	11	43	8	49	11	na	5	45	29	16	-2	46	17	33	18	30
Mar	66	42	13	42	17	52	24	35	17	44	15	41	-3	38	18	40	19	39
Mar	67	41	19	46	22	40	10	42	27	23	9	35	25	34	17	41	28	44
Mar	68	42	19	59	24	60	34	68	25	36	15	58	19	25	20	37	25	37
Mar	69	50	27	57	30	63	34	60	30	45	21	53	33	23	12	36	15	47
Mar	70	41	21	61	27	64	29	45	24	38	8	37	23	34	10	34	17	35
Mar	71	48	27	58	25	48	14	52	26	13	-9	48	23	28	8	50	12	35
Mar	72	48	19	53	31	15	6	50	28	10	-12	42	18	26	7	45	25	36
Mar	73	21	14	56	24	23	-3	55	17	38	-3	29	13	23	5	40	24	38
Mar	74	25	6	35	10	38	10	28	13	28	3	38	8	24	na	28	9	35
Mar	75	37	10	43	18	44	17	22	1	31	1	40	25	23	4	42	21	39
Mar	76	42	20	55	30	61	28	39	16	49	9	39	27	27	4	54	22	32
Mar	77	58	28	56	25	64	25	30	12	46	29	32	17	32	10	50	32	36
Mar	78	37	14	40	18	27	23	48	16	41	22	50	15	35	16	46	22	40
Mar	79	48	21	56	28	28	18	31	12	47	19	57	24	47	16	40	18	49
Mar	80	42	12	59	30	39	25	16	-12	60	28	60	32	48	25	57	12	51
Mar	81	31	13	43	25	40	23	34	4	55	23	46	26	41	30	55	36	65
Mar	82	18	6	36	25	38	11	48	5	43	29	32	22	43	31	47	25	64
Mar	83	17	-1	38	21	48	29	21	-2	63	25	36	19	45	28	41	26	52
Mar	84	38	16	48	20	35	17	11	-15	61	31	46	15	42	32	37	24	44
Mar	85	35	23	70	34	31	3	9	-10	68	35	42	25	34	30	44	12	55
Mar	86	32	9	50	25	46	19	33	2	73	39	40	21	32	27	49	22	68
Mar	87	42	18	61	29	40	2	42	11	74	26	37	19	36	23	61	27	64
Mar	88	51	24	70	41	14	3	53	21	39	11	46	20	46	26	53	27	67
Mar	89	60	35	59	31	25	3	61	30	38	11	48	32	55	32	51	24	59
Mar	90	57	27	46	25	25	3	na	25	43	22	49	33	57	35	49	27	60
Apr	91	49	27	53	28	39	12	54	28	60	30	52	30	46	30	59	27	52
Apr	92	46	25	35	23	44	14	61	34	69	28	41	22	58	30	53	33	38
Apr	93	39	20	36	11	31	11	83	30	42	24	34	25	53	31	57	23	48
Apr	94	47	27	46	21	59	28	37	25	30	20	28	21	48	33	67	28	51
Apr	95	43	28	57	30	60	32	31	18	41	22	42	25	33	29	65	27	51
Apr	96	51	27	51	30	65	31	32	15	56	31	34	24	38	28	71	37	71
Apr	97	60	30	38	28	61	26	45	11	42	13	37	15	48	22	40	22	64
Apr	98	69	33	34	12	45	25	56	20	42	8	42	19	46	27	32	22	52
Apr	99	76	24	33	20	63	31	58	28	42	24	39	15	43	33	31	14	51
Apr	100	31	10	27	19	64	24	63	25	39	20	36	25	41	29	33	11	63

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	42	23	35	14	52	21	69	na	50	24	25	13	42	33	29	17	76
Apr	102	57	28	31	10	60	34	44	29	62	28	30	-1	50	31	42	7	60
Apr	103	57	25	43	18	70	29	47	21	39	26	38	12	60	29	66	21	68
Apr	104	48	35	47	22	72	43	58	31	55	30	55	19	68	30	57	29	61
Apr	105	54	24	41	14	54	27	66	31	65	27	54	39	65	33	55	30	71
Apr	106	66	37	40	19	50	23	50	20	55	22	50	29	74	39	48	31	62
Apr	107	63	34	30	18	62	41	61	30	55	21	43	28	67	40	50	28	50
Apr	108	56	30	30	4	63	34	69	33	44	12	58	31	52	35	34	24	46
Apr	109	61	30	38	7	38	28	67	39	47	20	46	31	50	30	30	24	63
Apr	110	74	35	49	21	42	28	60	33	56	21	55	34	45	35	36	22	71
Apr	111	77	36	64	34	44	24	56	25	60	28	69	32	37	30	46	14	65
Apr	112	60	35	70	34	50	28	70	32	73	31	67	44	35	25	65	26	63
Apr	113	49	27	69	34	63	32	70	35	55	22	55	38	34	22	58	31	59
Apr	114	56	28	75	32	71	27	58	25	38	20	56	37	36	20	54	30	57
Apr	115	65	32	35	26	61	47	64	40	45	27	46	30	38	19	41	28	50
Apr	116	72	35	44	21	69	43	65	32	59	na	48	29	40	19	53	32	na
Apr	117	77	na	61	33	64	40	79	37	53	31	48	26	38	30	53	33	43
Apr	118	84	41	60	38	76	35	68	32	60	21	73	29	31	22	58	35	42
Apr	119	83	44	49	32	44	19	70	28	25	18	70	35	44	16	69	37	43
Apr	120	79	53	36	29	34	21	80	37	32	12	69	39	56	35	77	36	35
May	121	68	39	39	31	35	21	80	41	40	27	73	39	65	29	73	54	51
May	122	68	35	36	30	28	20	85	48	40	28	76	39	69	33	76	45	62
May	123	71	41	36	31	32	4	86	36	51	27	70	41	68	34	65	41	61
May	124	81	50	37	33	44	24	50	39	61	23	55	42	65	41	51	33	55
May	125	87	54	47	37	54	28	61	40	38	25	60	33	62	41	53	35	49
May	126	72	42	64	31	65	39	75	41	48	36	64	40	74	41	48	34	45
May	127	67	48	70	35	53	31	60	30	55	34	79	43	67	46	54	22	50
May	128	75	40	78	46	55	27	65	33	53	38	67	40	62	35	59	29	62
May	129	56	42	70	46	59	42	73	35	59	41	43	37	69	40	68	30	66
May	130	57	35	55	36	60	36	56	30	78	37	60	37	74	45	63	34	66
May	131	46	26	48	28	60	42	68	38	62	46	65	36	81	54	55	33	65
May	132	53	26	33	16	62	37	74	38	68	44	57	38	75	55	63	28	72
May	133	62	38	33	21	73	52	78	42	70	40	51	41	71	48	55	35	83
May	134	70	41	45	21	70	42	85	56	54	33	49	40	58	36	54	27	79
May	135	76	44	53	21	72	39	81	53	48	29	44	39	56	40	68	29	64
May	136	64	45	59	38	71	40	80	44	61	40	43	36	60	36	69	35	66
May	137	48	32	63	32	66	40	55	40	61	39	44	34	62	37	70	34	65
May	138	48	37	57	32	70	43	60	34	71	38	54	39	na	39	64	42	63
May	139	50	33	65	41	67	40	67	36	72	44	63	41	68	48	60	35	59
May	140	60	32	72	48	80	53	71	39	80	53	62	42	76	38	48	33	52
May	141	64	36	55	31	86	52	80	45	82	47	48	36	72	43	46	31	64
May	142	65	43	51	39	84	56	88	45	80	49	48	33	68	48	52	34	79
May	143	63	45	59	37	60	49	65	37	81	49	52	33	80	45	66	29	75
May	144	55	46	65	47	60	39	65	45	71	42	54	36	84	51	78	50	75
May	145	67	43	70	47	65	45	62	41	78	52	61	46	74	46	75	33	72
May	146	73	41	73	36	73	53	47	37	80	52	62	35	72	43	65	44	59
May	147	78	45	66	44	67	31	42	35	72	46	72	45	68	48	70	42	67
May	148	53	34	80	56	54	37	46	37	74	53	72	45	80	45	53	42	74
May	149	58	29	76	48	54	30	58	33	56	53	68	41	84	51	57	40	66
May	150	64	47	72	45	66	44	83	44	62	49	70	49	74	46	55	44	67

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	72	39	68	37	74	32	86	44	61	45	59	46	60	51	56	42	78
June	152	60	34	74	58	61	42	75	42	61	32	68	40	74	46	67	34	82
June	153	71	45	87	62	69	33	57	39	65	40	78	48	75	47	73	35	74
June	154	82	45	82	41	48	31	67	40	90	56	78	49	75	51	79	41	74
June	155	74	43	76	41	63	41	61	43	81	58	80	51	68	33	76	43	71
June	156	73	48	59	42	81	55	60	37	79	50	82	50	65	46	90	53	75
June	157	80	46	51	38	89	43	64	42	84	65	76	52	72	48	91	46	64
June	158	86	56	61	48	62	44	68	39	78	51	58	46	79	58	83	54	73
June	159	95	58	75	41	61	35	73	37	75	57	76	43	72	51	77	47	85
June	160	83	47	74	50	74	40	53	36	81	46	75	41	77	50	91	47	72
June	161	73	41	82	53	68	51	47	37	86	48	65	49	59	46	85	47	61
June	162	83	63	88	52	75	41	48	42	94	55	65	49	61	48	77	39	61
June	163	82	46	86	65	74	38	57	43	94	55	73	47	67	50	80	41	60
June	164	87	65	89	56	78	54	61	45	91	56	61	47	53	45	94	51	63
June	165	95	47	88	59	86	54	72	45	90	57	61	39	60	46	90	57	70
June	166	79	47	84	52	67	40	80	48	85	54	60	36	72	51	84	55	73
June	167	88	64	69	44	68	47	76	52	78	54	56	41	64	42	78	59	61
June	168	93	57	84	63	68	39	74	53	80	52	53	42	69	39	80	54	71
June	169	75	40	91	52	69	50	62	40	80	47	70	38	63	42	77	50	71
June	170	87	41	86	56	74	52	71	39	76	54	77	44	63	49	77	51	69
June	171	72	48	62	50	76	47	78	44	83	47	74	49	64	45	86	60	79
June	172	85	49	66	38	68	42	78	50	87	53	68	49	64	33	80	57	88
June	173	76	44	70	46	75	45	82	50	91	53	52	42	66	41	70	52	70
June	174	83	51	76	54	86	53	76	51	78	39	63	39	69	46	83	49	71
June	175	81	50	83	52	101	60	76	55	75	60	76	42	64	36	84	53	66
June	176	72	51	59	44	89	53	68	53	83	49	72	48	64	29	79	57	79
June	177	63	49	73	39	75	56	75	55	87	50	69	45	70	34	87	54	90
June	178	70	51	70	51	70	60	80	54	73	44	62	48	84	43	64	42	86
June	179	66	51	70	45	85	50	80	48	75	47	73	41	79	54	52	44	89
June	180	73	46	82	58	84	42	84	55	81	51	78	45	81	65	56	43	81
June	181	83	49	86	54	82	40	92	48	94	58	82	54	79	62	53	47	79
July	182	94	64	98	59	80	48	74	na	90	53	84	52	78	43	77	35	73
July	183	87	53	77	46	79	51	85	45	74	48	82	52	79	50	85	47	88
July	184	87	54	78	58	74	45	85	52	74	53	85	57	75	47	85	53	90
July	185	72	39	85	54	86	55	79	55	74	49	70	50	62	47	69	41	71
July	186	86	48	74	55	91	53	89	59	73	46	83	42	67	40	78	38	78
July	187	91	55	70	46	98	62	91	60	76	48	93	49	63	39	90	54	70
July	188	93	59	77	51	87	49	94	47	77	56	81	55	71	43	74	52	77
July	189	72	44	73	46	88	60	85	46	85	49	77	48	72	52	66	41	75
July	190	71	37	73	54	96	73	80	45	70	41	88	54	78	48	80	37	85
July	191	84	45	84	54	103	57	84	57	70	48	92	58	73	49	73	42	91
July	192	91	50	91	54	94	61	85	56	78	47	92	62	79	45	75	39	89
July	193	87	57	87	54	90	65	93	61	88	55	85	57	81	51	79	45	77
July	194	72	55	83	50	96	65	87	54	88	58	82	58	85	47	85	52	81
July	195	63	47	88	56	91	54	84	49	82	52	85	57	67	46	81	55	73
July	196	60	38	92	58	84	62	86	50	91	60	83	55	61	43	90	50	94
July	197	71	42	94	56	95	51	88	51	93	63	86	56	75	45	77	50	82
July	198	88	49	67	44	85	64	90	53	83	52	94	61	78	49	80	47	87
July	199	85	54	81	50	88	59	93	57	83	48	75	58	74	49	77	43	89
July	200	83	55	90	55	90	53	92	60	76	57	69	53	72	44	81	43	85

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	86	62	91	60	90	53	90	62	71	44	80	57	72	47	80	50	91
July	202	95	51	87	54	83	62	93	74	75	46	78	51	79	44	90	47	97
July	203	80	48	76	48	95	55	93	55	82	45	86	54	80	45	82	51	97
July	204	90	49	80	54	76	42	90	57	80	52	86	62	88	52	84	48	91
July	205	74	42	85	58	89	53	98	54	85	52	75	58	75	54	93	44	na
July	206	88	63	94	54	92	54	85	59	90	47	80	47	78	48	89	65	84
July	207	103	58	88	58	95	57	82	62	94	59	87	54	74	52	90	51	89
July	208	88	56	75	62	97	58	83	55	93	60	87	51	70	55	91	53	89
July	209	90	59	86	57	86	54	83	64	90	57	82	53	71	47	94	58	93
July	210	87	55	74	53	92	49	81	57	80	55	89	53	79	51	82	48	89
July	211	78	54	79	56	82	57	89	53	83	58	81	51	67	54	86	47	86
July	212	78	45	87	57	80	42	93	61	90	59	88	60	79	49	83	57	84
Aug	213	87	50	88	56	82	57	93	77	73	46	91	63	89	49	86	62	93
Aug	214	89	55	84	57	83	46	96	60	75	52	75	56	88	50	90	54	86
Aug	215	93	56	69	56	83	53	92	56	76	53	76	45	91	40	89	52	87
Aug	216	85	59	64	50	83	60	97	54	79	58	75	54	80	59	89	51	82
Aug	217	75	44	80	51	81	56	79	53	88	49	89	60	80	59	90	55	90
Aug	218	77	50	80	49	75	56	88	57	87	55	88	64	83	50	78	51	86
Aug	219	83	49	71	36	70	49	79	61	85	50	82	55	86	50	89	59	73
Aug	220	86	51	75	45	76	44	80	51	82	50	78	58	90	53	91	52	74
Aug	221	85	50	93	54	82	43	87	61	79	50	83	48	95	55	85	50	63
Aug	222	72	48	80	52	82	53	76	51	77	49	94	64	83	59	86	51	68
Aug	223	82	48	66	44	84	51	80	55	80	47	96	53	88	55	82	47	77
Aug	224	70	46	72	41	83	44	88	53	78	48	88	57	86	54	93	52	83
Aug	225	65	45	89	48	82	53	91	61	80	53	80	50	87	54	79	52	84
Aug	226	78	49	93	52	80	49	91	59	79	47	86	55	88	57	na	41	80
Aug	227	86	50	79	53	na	na	68	56	87	49	73	55	81	52	na	40	80
Aug	228	94	52	78	49	87	50	82	60	89	58	75	53	82	53	80	40	91
Aug	229	78	43	79	54	na	54	93	60	92	58	67	51	89	49	91	40	82
Aug	230	79	52	84	53	na	42	88	54	84	50	74	46	85	50	95	56	69
Aug	231	84	51	85	49	na	50	92	61	73	50	82	47	81	55	82	51	74
Aug	232	89	51	84	51	83	55	84	56	55	45	81	53	71	55	82	56	79
Aug	233	90	54	90	58	90	54	91	53	52	39	87	55	73	43	86	52	88
Aug	234	75	55	89	51	84	45	81	62	70	42	76	53	77	50	84	52	84
Aug	235	82	55	82	53	82	43	92	53	85	48	67	42	70	43	79	45	96
Aug	236	90	50	83	52	86	48	91	49	84	48	80	46	70	41	90	57	87
Aug	237	92	55	93	51	93	55	90	63	82	52	78	49	74	48	84	56	80
Aug	238	90	53	95	57	84	56	90	57	90	56	71	48	88	42	84	53	72
Aug	239	94	52	94	63	92	44	91	58	90	54	64	49	84	53	83	48	84
Aug	240	87	61	88	55	86	54	85	51	87	47	68	43	79	51	89	48	77
Aug	241	77	49	84	55	88	53	85	40	82	40	69	48	74	48	82	45	69
Aug	242	81	56	81	56	89	55	77	36	72	43	73	51	69	46	75	46	82
Aug	243	85	54	90	60	90	62	74	42	80	37	77	49	77	40	78	47	88
Sept	244	69	42	94	50	101	50	87	45	60	36	68	49	87	45	74	45	86
Sept	245	65	43	81	50	84	45	87	45	61	34	67	44	78	43	65	38	87
Sept	246	56	32	68	41	75	52	85	47	81	46	71	40	72	39	71	53	92
Sept	247	73	40	55	38	80	50	89	48	75	42	73	47	76	45	90	53	89
Sept	248	87	43	61	38	82	48	77	50	54	39	68	44	73	51	82	50	95
Sept	249	90	50	73	38	87	39	94	52	53	35	65	43	74	46	75	47	81
Sept	250	80	57	83	39	77	38	78	48	52	29	79	43	84	39	79	42	82

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	85	61	85	42	78	55	88	58	64	35	66	46	88	50	na	44	71
Sept	252	86	54	83	42	75	41	90	52	71	42	61	34	77	46	64	41	66
Sept	253	80	55	81	40	71	39	70	33	81	49	59	30	78	57	na	41	69
Sept	254	91	65	83	41	79	47	53	33	82	49	66	36	88	49	87	45	80
Sept	255	95	54	76	40	86	56	78	48	89	48	58	45	89	50	89	52	70
Sept	256	87	54	81	50	85	52	86	43	82	51	51	38	82	65	89	50	72
Sept	257	84	51	78	42	73	38	80	42	81	45	62	30	67	43	86	49	76
Sept	258	62	36	84	35	71	46	93	57	65	45	63	49	61	36	75	43	71
Sept	259	66	34	78	51	79	51	85	48	77	42	71	34	69	36	45	38	72
Sept	260	77	43	87	47	62	41	85	47	79	58	64	44	78	40	na	34	67
Sept	261	78	42	75	34	70	49	73	44	68	36	60	37	66	38	54	40	72
Sept	262	79	53	69	43	69	33	70	42	77	42	40	28	78	40	75	43	72
Sept	263	65	44	76	37	75	37	76	49	76	39	53	30	64	43	63	43	81
Sept	264	61	43	56	27	69	27	66	39	82	43	47	37	75	30	64	41	86
Sept	265	64	35	67	38	69	37	60	34	89	54	62	31	86	44	55	40	68
Sept	266	60	30	87	46	87	46	53	27	62	36	71	36	85	43	54	34	49
Sept	267	61	37	71	45	73	39	52	34	60	30	73	36	63	40	55	40	64
Sept	268	70	35	59	28	71	39	44	33	71	31	70	39	66	29	50	40	60
Sept	269	82	38	74	39	81	40	41	31	82	36	70	37	58	43	58	42	71
Sept	270	81	42	70	42	85	38	59	39	80	40	76	45	64	28	50	33	60
Sept	271	88	41	81	41	82	52	71	38	86	47	81	45	74	38	43	34	68
Sept	272	90	39	87	45	66	32	76	37	85	46	80	42	59	38	39	29	61
Sept	273	77	44	63	40	40	30	55	30	58	36	77	42	45	24	45	23	54
Oct	274	77	45	85	44	42	33	57	28	59	35	75	40	52	23	43	30	68
Oct	275	77	34	86	40	51	30	61	38	77	39	84	44	62	31	48	25	58
Oct	276	58	28	63	33	80	32	70	38	68	37	79	54	73	39	61	27	60
Oct	277	73	43	61	32	68	27	78	48	81	40	62	52	65	41	65	32	69
Oct	278	57	29	65	41	41	29	82	36	66	38	55	37	78	44	67	32	79
Oct	279	45	20	63	30	50	27	57	33	82	45	56	43	75	45	55	41	71
Oct	280	36	13	71	39	65	39	48	26	72	na	43	33	66	40	44	30	78
Oct	281	45	20	73	35	83	42	64	34	67	36	33	27	62	36	37	24	78
Oct	282	68	31	75	41	82	41	na	na	81	36	42	31	49	32	61	24	77
Oct	283	71	35	83	38	65	39	84	43	55	32	56	29	52	26	41	26	79
Oct	284	83	40	84	41	63	33	81	41	68	34	62	32	66	38	44	21	53
Oct	285	68	30	82	41	68	28	43	25	72	38	65	31	76	39	51	34	71
Oct	286	74	38	72	37	53	33	56	32	80	45	64	32	79	40	52	29	62
Oct	287	66	37	77	39	44	25	58	29	82	47	58	38	78	37	61	32	51
Oct	288	47	26	77	40	45	25	73	32	55	30	48	43	80	42	65	39	47
Oct	289	40	27	75	40	61	34	63	30	59	31	45	37	66	36	43	32	52
Oct	290	48	29	64	41	69	34	65	29	67	36	56	28	66	28	59	25	64
Oct	291	53	29	73	37	75	38	65	33	79	32	56	34	79	38	72	33	58
Oct	292	57	30	77	42	62	29	71	39	67	38	50	40	77	46	67	33	47
Oct	293	67	30	81	38	70	35	78	43	72	48	44	36	60	33	63	29	40
Oct	294	70	36	72	37	55	26	55	39	60	27	46	30	39	32	56	36	59
Oct	295	68	35	42	33	67	33	72	36	66	34	50	30	48	33	58	30	63
Oct	296	69	33	38	21	76	36	59	21	74	33	41	29	54	26	58	41	60
Oct	297	62	33	49	22	57	30	43	26	52	34	29	24	54	26	58	29	65
Oct	298	77	36	49	32	34	24	67	34	71	41	34	12	43	27	57	40	70
Oct	299	75	39	39	17	28	22	76	39	45	23	47	13	47	25	44	30	58
Oct	300	65	28	54	32	32	12	70	34	44	23	54	24	44	27	49	23	74

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	68	26	53	34	55	18	52	20	48	29	42	29	41	26	45	32	64
Oct	302	45	19	70	35	37	19	45	28	64	31	50	27	47	24	40	24	58
Oct	303	60	29	73	38	41	24	49	20	43	25	62	40	59	26	29	22	44
Oct	304	75	33	56	33	39	22	49	20	41	18	55	35	61	26	51	21	38
Nov	305	59	30	63	35	40	18	41	21	59	20	50	32	57	24	56	33	48
Nov	306	51	25	70	37	30	10	35	14	61	30	32	25	58	25	66	31	52
Nov	307	42	22	49	25	66	20	35	13	33	24	30	25	53	25	50	31	45
Nov	308	46	16	52	22	45	19	60	na	26	20	32	27	55	30	42	8	41
Nov	309	61	28	53	30	55	26	65	35	31	14	36	15	40	18	12	5	37
Nov	310	71	28	47	34	60	31	43	24	40	8	43	25	48	21	44	-1	45
Nov	311	46	21	46	34	70	29	39	16	37	10	32	26	48	34	43	24	49
Nov	312	42	24	45	24	72	28	35	16	37	24	29	17	50	24	43	18	56
Nov	313	56	23	55	27	61	28	57	32	32	3	39	8	50	29	53	25	32
Nov	314	33	25	65	29	69	30	54	33	46	4	54	20	63	34	38	22	34
Nov	315	37	17	65	28	50	29	40	19	57	34	51	24	48	33	25	15	47
Nov	316	59	25	63	29	68	38	25	0	65	36	46	33	54	27	20	0	51
Nov	317	61	25	70	33	61	34	20	-5	50	21	44	24	56	31	3	-14	45
Nov	318	58	30	75	39	60	22	15	2	61	28	41	26	38	30	35	-13	55
Nov	319	57	25	74	41	65	30	21	-8	51	26	33	30	32	24	32	-3	54
Nov	320	57	27	66	33	62	33	19	-11	27	4	30	17	25	18	4	-15	45
Nov	321	60	32	68	31	61	31	9	-1	30	7	29	26	25	12	48	-2	42
Nov	322	35	27	64	25	48	28	26	-3	45	17	30	14	39	15	48	24	43
Nov	323	32	26	27	20	61	27	44	12	36	11	31	13	49	24	45	22	55
Nov	324	32	18	33	8	59	32	53	21	35	16	26	20	52	20	43	22	43
Nov	325	37	24	26	11	50	25	56	31	19	0	22	15	52	35	50	30	52
Nov	326	51	21	30	11	49	30	57	26	34	1	40	11	53	26	40	27	55
Nov	327	27	10	48	29	64	35	30	11	39	20	48	34	38	23	41	28	38
Nov	328	29	5	42	30	44	28	36	11	50	22	53	27	51	23	38	25	44
Nov	329	33	7	34	26	48	30	39	18	na	na	51	30	47	6	45	23	56
Nov	330	25	12	48	27	60	32	52	23	na	na	52	34	19	0	24	17	65
Nov	331	14	1	42	18	45	26	42	-1	40	18	41	27	19	3	19	7	59
Nov	332	7	-7	50	18	37	21	10	-4	60	21	36	20	40	12	43	0	na
Nov	333	25	-2	40	22	25	20	11	-9	44	18	27	17	41	27	42	21	15
Nov	334	36	2	39	22	32	12	19	-6	45	18	31	19	53	26	37	27	35
Dec	335	36	11	54	28	22	0	39	12	50	29	38	24	54	25	41	21	36
Dec	336	40	13	37	20	38	3	42	1	59	26	33	21	48	32	58	26	54
Dec	337	49	15	39	23	50	17	16	3	57	31	42	24	54	30	50	28	56
Dec	338	47	23	29	13	55	23	17	4	56	30	54	25	37	13	34	14	56
Dec	339	32	20	39	14	45	25	33	3	63	22	46	29	14	-1	31	13	39
Dec	340	45	21	36	17	50	16	37	4	38	-1	37	26	10	-6	47	30	39
Dec	341	52	24	39	19	47	11	45	21	3	-12	32	20	7	1	45	30	28
Dec	342	45	24	35	16	46	24	35	19	8	-10	46	15	9	-7	41	21	37
Dec	343	45	27	30	7	35	9	32	9	24	-1	57	15	35	1	43	16	40
Dec	344	42	25	43	22	45	10	39	20	30	2	50	12	39	11	47	24	44
Dec	345	34	12	37	16	45	18	32	3	47	30	31	5	35	19	43	27	40
Dec	346	44	16	34	18	43	20	39	5	50	14	43	24	21	9	42	26	46
Dec	347	32	14	47	20	52	23	53	15	20	8	43	22	16	8	38	23	47
Dec	348	39	12	28	6	47	23	21	6	38	13	49	20	32	9	40	18	53
Dec	349	34	12	42	16	40	18	13	-1	52	25	40	21	46	24	46	28	42
Dec	350	56	21	30	13	47	16	36	-1	44	22	48	24	42	25	54	25	29

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1952	1952	1953	1953	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	59	23	24	6	33	15	23	2	44	29	42	28	43	21	33	24	29
Dec	352	48	23	47	11	41	30	18	-8	46	3	38	26	54	24	40	24	36
Dec	353	30	20	49	24	57	32	20	-10	41	14	34	22	47	25	40	20	36
Dec	354	36	13	50	28	55	25	54	19	55	24	42	22	46	18	41	17	37
Dec	355	39	14	46	10	57	25	51	25	46	20	49	34	53	25	43	19	23
Dec	356	48	16	19	-4	56	29	53	32	53	20	45	31	39	27	32	14	13
Dec	357	33	10	30	-3	55	21	56	36	53	21	33	25	37	19	34	13	28
Dec	358	35	13	42	23	41	20	60	28	26	8	42	25	40	18	48	16	45
Dec	359	28	4	42	23	56	24	41	27	27	16	34	24	43	15	50	25	53
Dec	360	33	4	45	21	37	14	55	27	42	22	50	19	43	22	39	25	53
Dec	361	37	7	44	22	35	6	57	27	45	35	39	24	48	21	25	17	33
Dec	362	40	9	33	12	27	3	50	17	50	41	40	12	38	20	36	21	27
Dec	363	47	17	46	20	42	4	25	1	52	33	36	19	36	17	30	19	27
Dec	364	42	12	30	16	41	9	34	2	49	35	26	15	39	12	34	3	39
Dec	365	35	15	44	25	40	9	42	9	57	39	23	5	43	22	28	11	39
29-Feb	366	45	18							50	24							34

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	1	31	8	44	22	43	18	52	30	30	17	35	17	37	22	28	-9
Jan	2	3	27	8	50	27	46	19	45	29	41	7	29	4	26	20	-1	-18
Jan	3	-7	40	12	52	27	51	21	34	23	45	22	40	26	37	4	15	-9
Jan	4	-11	42	16	36	19	32	20	41	21	45	24	39	16	34	15	38	-7
Jan	5	-3	53	20	27	4	33	17	31	20	48	20	43	15	44	18	37	-11
Jan	6	22	54	27	34	20	35	26	34	14	52	29	40	20	27	3	4	-22
Jan	7	19	45	25	27	21	48	23	28	20	51	15	42	30	18	3	34	-10
Jan	8	13	50	23	21	-12	50	28	20	12	26	15	52	29	36	2	39	19
Jan	9	19	47	23	-9	-14	34	7	26	15	33	15	50	25	34	22	36	5
Jan	10	9	47	20	18	-18	8	-12	28	3	36	15	40	12	44	16	48	24
Jan	11	29	50	24	35	4	-12	-21	20	-10	32	23	45	23	48	30	41	17
Jan	12	21	49	28	35	10	3	-22	20	-12	25	17	39	26	40	24	27	8
Jan	13	20	39	28	27	14	17	-5	32	1	34	21	41	22	37	20	50	8
Jan	14	20	38	15	17	-11	18	3	38	11	40	28	48	26	30	16	46	25
Jan	15	15	47	24	8	-6	27	0	31	11	38	31	36	3	41	7	45	25
Jan	16	16	55	27	25	-6	24	-8	46	11	46	32	30	3	30	8	51	29
Jan	17	3	49	28	5	-12	25	10	35	11	43	28	32	2	8	-6	36	27
Jan	18	1	32	20	-3	-11	10	-19	38	11	55	23	39	12	25	-7	37	13
Jan	19	-9	34	12	1	-25	21	-28	33	11	42	30	24	-1	43	11	54	30
Jan	20	-1	34	10	-6	-15	27	12	47	12	52	21	-1	-12	47	40	48	30
Jan	21	-2	33	5	-5	-19	39	27	49	21	42	25	19	-15	47	34	52	31
Jan	22	-10	34	21	21	-9	35	-16	43	23	32	25	18	-1	50	44	43	30
Jan	23	11	43	26	33	14	5	-22	28	8	31	13	19	-5	44	25	49	27
Jan	24	19	26	na	39	13	16	-11	23	5	47	13	12	-5	28	13	58	40
Jan	25	16	20	5	45	16	6	-7	35	11	38	19	24	-9	23	14	42	27
Jan	26	14	9	-2	43	17	-1	-12	34	25	23	11	28	-1	36	10	28	21
Jan	27	16	28	-5	45	25	22	-16	39	11	37	10	2	-11	44	17	24	14
Jan	28	19	26	10	46	26	12	-2	39	21	33	6	1	-12	53	26	15	4
Jan	29	20	19	-1	47	40	-2	-9	47	18	30	18	16	-5	51	29	35	0
Jan	30	29	50	9	48	29	21	-9	37	21	28	12	41	10	43	32	43	34
Jan	31	28	53	29	53	32	49	7	37	14	33	5	na	na	35	24	40	25
Feb	32	23	39	28	53	27	49	21	37	19	10	-3	30	8	32	23	35	16
Feb	33	24	39	9	54	32	38	1	32	12	15	-6	32	19	40	15	45	19
Feb	34	22	41	23	60	32	52	23	34	6	20	-3	34	12	46	26	49	26
Feb	35	21	40	19	43	10	58	37	51	17	54	15	49	12	48	25	48	26
Feb	36	16	39	13	11	3	61	35	40	26	55	31	45	22	46	12	51	26
Feb	37	28	43	10	35	3	57	27	26	11	51	26	42	24	32	23	42	18
Feb	38	21	43	9	37	8	54	34	30	16	31	11	46	33	27	17	45	18
Feb	39	28	46	13	41	8	45	34	32	23	45	16	40	23	41	10	37	17
Feb	40	10	46	23	46	26	35	19	34	17	32	19	36	24	35	30	47	19
Feb	41	2	59	27	57	34	24	2	44	26	20	10	30	4	32	24	41	32
Feb	42	15	59	33	50	30	22	-6	43	24	18	4	31	6	34	23	37	26
Feb	43	9	52	34	60	40	35	2	33	24	20	0	31	15	42	24	26	3
Feb	44	25	43	17	48	33	29	20	36	10	36	-3	28	-6	49	31	15	-7
Feb	45	20	47	20	49	26	39	8	29	22	36	23	29	2	46	na	27	7
Feb	46	14	53	20	42	25	39	18	36	1	29	-6	15	-1	23	0	33	5
Feb	47	24	46	19	28	18	37	25	30	12	40	10	30	4	27	5	26	9
Feb	48	14	24	10	19	11	43	15	34	11	48	25	42	24	21	5	18	-3
Feb	49	0	30	12	33	8	40	22	32	20	53	33	34	-5	38	-3	43	8
Feb	50	-2	40	12	31	23	40	24	32	11	58	29	31	11	34	1	47	36

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	-1	47	22	24	5	33	6	25	15	45	12	20	3	20	8	38	9
Feb	52	2	61	25	17	4	28	-11	32	4	14	3	39	6	36	10	37	8
Feb	53	0	48	28	35	11	40	26	26	8	10	-10	32	7	27	8	33	15
Feb	54	-11	30	14	21	-6	33	23	33	8	9	-20	46	7	25	0	45	26
Feb	55	-11	44	11	5	-15	38	28	30	14	30	-1	53	19	34	-5	44	34
Feb	56	-2	48	25	4	-8	35	23	20	-1	45	10	53	19	53	20	42	35
Feb	57	-15	35	18	-1	-11	49	24	30	5	55	27	44	24	41	29	43	30
Feb	58	-11	41	13	3	-8	38	19	25	16	56	27	42	17	46	26	38	27
Feb	59	-18	40	23	17	-22	39	28	45	18	46	19	40	22	60	29	30	24
Mar	60	-9	50	19	35	1	40	28	45	16	19	4	43	20	56	33	52	19
Mar	61	-7	45	27	42	13	34	25	44	11	16	-5	29	11	46	26	51	32
Mar	62	-7	30	18	21	11	29	12	38	24	13	5	16	1	40	19	42	22
Mar	63	-15	33	19	19	0	27	1	34	18	31	9	12	1	27	21	52	16
Mar	64	-17	33	9	40	2	35	2	33	8	42	9	22	4	24	13	54	29
Mar	65	2	40	10	45	27	34	24	39	14	34	25	38	1	36	12	56	29
Mar	66	1	42	20	41	25	37	23	28	9	45	11	49	17	19	-15	65	36
Mar	67	20	38	24	40	18	38	25	34	0	37	21	49	26	41	5	60	33
Mar	68	na	57	15	45	21	39	25	29	0	34	25	55	33	53	30	48	35
Mar	69	18	48	27	27	20	48	21	39	6	33	15	58	31	54	28	38	28
Mar	70	19	44	20	21	13	35	23	33	17	38	10	47	33	54	21	31	23
Mar	71	16	40	31	17	9	30	18	40	11	35	25	52	23	29	18	29	20
Mar	72	6	52	19	19	3	32	-2	49	32	34	20	58	27	19	11	43	15
Mar	73	2	50	26	30	1	45	9	43	26	36	17	55	37	20	13	53	27
Mar	74	19	50	30	35	7	50	24	33	15	38	15	58	34	44	4	45	34
Mar	75	9	65	34	43	13	39	20	43	25	35	12	63	38	38	17	49	33
Mar	76	21	50	40	45	17	43	12	41	21	12	-7	47	29	34	14	57	27
Mar	77	1	46	30	48	23	44	23	49	26	5	-9	36	25	43	25	59	35
Mar	78	27	49	25	49	25	39	26	48	32	7	-13	57	20	43	31	48	22
Mar	79	29	54	28	48	40	44	23	39	16	11	-11	48	31	43	29	27	20
Mar	80	31	47	30	47	29	57	28	31	8	33	-4	43	28	55	25	27	19
Mar	81	28	48	31	43	18	63	28	49	10	28	-1	35	16	58	25	26	6
Mar	82	21	61	22	52	27	61	35	40	27	9	-6	24	-1	66	39	36	-2
Mar	83	29	67	42	43	34	56	31	27	4	7	-8	49	5	52	37	59	20
Mar	84	24	64	37	55	24	45	33	8	-4	17	-16	40	24	44	33	57	34
Mar	85	37	44	31	59	27	55	26	17	-2	27	-5	46	15	52	33	54	32
Mar	86	33	41	23	65	35	58	30	36	8	28	14	53	24	49	29	51	33
Mar	87	34	41	22	55	23	68	37	26	15	32	15	58	32	63	33	55	30
Mar	88	35	47	15	34	14	60	30	33	-1	38	10	59	32	72	31	64	32
Mar	89	32	55	25	33	18	63	28	38	13	59	21	64	33	61	32	66	32
Mar	90	30	47	21	28	19	63	30	54	21	51	32	61	38	43	25	61	32
Apr	91	31	52	20	27	10	57	30	64	28	62	27	51	28	52	19	48	15
Apr	92	32	53	38	45	9	43	22	66	31	59	45	48	31	45	28	58	30
Apr	93	28	58	31	43	9	39	19	47	32	53	32	34	30	52	31	51	30
Apr	94	30	53	31	51	22	51	18	37	24	45	26	30	24	66	31	30	10
Apr	95	33	40	23	58	32	56	28	49	24	38	28	38	25	61	39	33	-4
Apr	96	29	44	18	51	25	65	34	41	27	51	23	52	24	51	30	57	23
Apr	97	39	43	13	45	27	57	40	28	23	60	30	46	26	63	25	51	32
Apr	98	26	42	26	35	27	59	41	27	20	54	31	40	28	60	33	34	28
Apr	99	25	45	29	41	25	44	31	48	8	65	30	54	19	48	29	41	30
Apr	100	37	49	23	43	30	45	32	54	23	47	31	55	34	61	38	50	24

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	44	39	25	40	30	39	23	61	28	32	28	46	32	70	42	65	30
Apr	102	36	62	28	42	23	52	25	56	31	44	29	40	31	64	21	74	33
Apr	103	44	57	36	58	27	64	32	50	30	49	27	44	28	42	37	64	33
Apr	104	37	47	21	59	28	75	34	39	28	42	36	54	25	60	38	36	29
Apr	105	na	35	3	72	28	67	43	53	31	47	34	58	36	55	35	54	24
Apr	106	28	40	18	62	43	54	37	68	31	48	30	54	39	50	30	71	32
Apr	107	31	56	17	63	29	48	25	72	46	47	28	41	25	50	19	59	31
Apr	108	23	74	31	69	32	44	28	46	25	53	26	26	17	71	38	34	27
Apr	109	32	75	37	71	36	43	26	36	30	61	32	22	14	66	49	41	25
Apr	110	na	62	34	81	55	42	26	47	20	70	37	36	1	62	35	49	32
Apr	111	35	53	28	65	40	30	23	45	34	69	33	48	19	35	21	51	33
Apr	112	34	60	30	63	33	32	25	52	32	64	36	50	25	33	13	47	31
Apr	113	38	54	41	73	37	46	14	59	30	50	29	55	31	43	21	36	28
Apr	114	36	41	26	78	38	53	27	68	30	39	29	55	30	42	26	47	18
Apr	115	33	49	16	73	49	57	27	71	48	52	26	65	30	37	32	55	26
Apr	116	32	47	24	69	33	57	30	63	44	51	35	58	32	44	31	50	30
Apr	117	25	39	21	51	34	50	42	58	37	52	27	36	26	64	31	46	30
Apr	118	28	59	23	71	44	54	30	45	33	62	31	42	21	70	32	47	31
Apr	119	29	54	29	51	33	42	32	52	30	72	34	39	21	62	34	60	31
Apr	120	28	54	32	49	26	61	32	60	26	73	42	47	17	34	17	72	33
May	121	17	53	39	61	28	71	39	61	32	75	41	61	32	34	16	78	37
May	122	30	57	32	63	34	57	32	60	37	66	35	65	28	33	18	71	39
May	123	35	50	36	64	40	68	31	50	42	56	34	71	36	28	16	65	41
May	124	35	42	34	69	57	59	34	52	35	75	40	84	42	37	19	57	28
May	125	35	47	35	61	45	66	39	60	36	63	46	80	41	45	16	56	27
May	126	32	59	28	64	36	75	43	63	34	53	34	78	45	55	28	63	41
May	127	27	55	27	70	44	80	49	53	36	56	36	79	47	55	34	62	42
May	128	28	56	35	65	41	69	42	55	32	48	31	72	34	57	35	51	34
May	129	48	72	32	80	60	73	47	47	38	41	28	53	34	72	38	49	35
May	130	33	83	48	71	44	59	34	57	38	58	28	64	34	69	33	58	24
May	131	30	79	41	78	64	63	45	65	40	64	26	54	26	37	23	56	36
May	132	35	63	45	71	50	57	41	50	39	68	31	38	25	41	30	54	21
May	133	39	51	41	67	47	63	39	61	30	68	35	56	26	42	32	74	34
May	134	34	58	42	58	38	61	36	75	30	51	43	69	32	42	32	69	50
May	135	44	59	35	58	41	65	42	70	44	56	36	59	38	51	31	65	40
May	136	37	49	36	63	41	60	43	70	46	73	36	65	41	56	37	53	40
May	137	35	45	32	58	41	60	35	80	42	56	43	61	36	76	36	52	36
May	138	49	53	35	50	47	58	32	85	57	55	35	48	39	74	45	52	34
May	139	41	56	45	65	48	54	39	78	49	68	39	60	30	58	35	42	35
May	140	31	70	34	62	49	51	30	80	41	76	49	71	37	66	33	47	38
May	141	33	69	45	60	41	49	22	90	66	56	42	84	40	70	39	55	21
May	142	40	67	50	45	41	57	26	81	53	46	40	78	46	85	45	67	35
May	143	39	74	48	58	43	66	35	75	52	72	43	55	32	82	45	61	46
May	144	55	76	46	58	40	68	37	63	44	54	41	70	35	83	50	48	42
May	145	47	71	46	53	47	70	41	79	31	53	37	78	41	78	49	51	39
May	146	47	76	38	48	40	52	42	73	55	48	31	80	43	65	44	52	42
May	147	36	80	48	50	39	61	40	58	43	53	30	80	45	60	35	56	43
May	148	41	79	45	60	47	63	38	58	45	64	33	75	46	65	37	56	42
May	149	45	75	60	55	43	69	40	58	44	64	39	74	50	59	46	67	37
May	150	35	79	43	60	50	75	52	50	42	80	46	77	52	50	44	74	41

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	49	79	61	63	48	75	49	53	37	75	49	78	64	44	38	72	48
June	152	49	73	51	63	48	75	44	53	37	na	na	77	51	53	38	72	42
June	153	54	69	39	58	48	66	48	56	32	na	na	74	44	75	38	74	37
June	154	48	74	39	72	38	69	50	62	31	na	na	68	48	80	50	83	40
June	155	49	76	44	72	55	72	44	70	32	na	na	63	50	69	48	87	50
June	156	48	76	42	60	41	72	48	68	50	na	na	58	42	75	48	83	49
June	157	45	76	41	60	48	69	43	70	45	na	na	59	37	71	48	69	49
June	158	40	79	41	53	41	70	46	71	47	na	na	58	47	72	49	63	52
June	159	54	83	41	60	42	75	53	80	49	na	na	59	34	62	42	60	52
June	160	52	86	42	65	40	67	47	71	47	na	na	71	38	60	43	65	46
June	161	49	82	46	73	44	66	41	55	39	na	na	73	48	65	42	71	50
June	162	45	82	53	74	57	64	46	66	39	na	na	67	50	61	46	70	46
June	163	48	85	50	67	51	78	46	67	50	na	na	64	43	63	49	67	49
June	164	47	73	48	76	60	81	48	71	47	na	na	68	38	63	49	79	46
June	165	50	63	50	81	57	76	51	69	41	na	na	69	49	62	46	78	53
June	166	49	65	33	64	53	64	55	63	49	na	na	65	48	56	50	64	44
June	167	49	76	44	63	49	64	43	64	43	na	na	65	37	66	37	59	45
June	168	48	80	42	61	49	74	44	75	52	na	na	73	39	77	42	67	37
June	169	50	87	43	75	55	75	44	73	55	na	na	82	52	73	55	82	43
June	170	51	78	53	71	55	84	47	62	49	na	na	82	56	70	50	75	54
June	171	56	82	48	74	53	80	52	68	42	na	na	89	54	68	46	85	52
June	172	48	88	47	70	52	89	52	65	43	na	na	78	59	70	43	84	57
June	173	41	74	30	74	49	80	54	65	42	na	na	81	52	67	45	77	43
June	174	37	75	40	71	53	74	51	59	47	na	na	67	45	47	41	78	54
June	175	42	76	40	77	48	57	50	72	40	na	na	80	52	61	38	77	53
June	176	42	85	42	71	54	71	52	85	44	na	na	71	44	72	37	58	52
June	177	52	92	53	85	64	83	51	88	48	na	na	81	40	75	38	54	42
June	178	61	90	59	89	62	89	52	81	51	na	na	86	67	77	46	65	33
June	179	49	94	54	82	65	84	68	92	59	na	na	96	55	75	55	87	47
June	180	47	97	58	77	56	84	59	85	62	na	na	93	72	80	47	82	50
June	181	54	87	64	70	55	78	59	76	53	na	na	87	62	86	50	82	48
July	182	53	79	55	80	50	78	43	80	51	71	50	79	58	76	52	82	43
July	183	60	87	41	79	60	83	46	78	52	69	46	82	55	70	39	61	44
July	184	50	95	57	75	60	86	57	82	53	75	46	82	62	69	40	69	37
July	185	43	87	56	68	53	81	63	76	54	78	53	90	62	73	49	77	49
July	186	46	87	60	77	60	84	60	90	58	74	52	81	61	86	48	77	46
July	187	44	82	52	78	67	90	62	81	55	75	45	80	49	81	55	76	47
July	188	48	76	57	78	59	82	53	78	50	82	50	86	55	79	63	80	46
July	189	48	84	51	73	49	88	64	79	53	76	56	91	60	83	55	84	49
July	190	52	85	51	80	55	85	60	79	53	72	50	90	54	82	55	82	54
July	191	50	85	52	74	58	83	63	81	53	79	50	98	61	81	55	78	53
July	192	55	76	52	77	60	80	60	78	59	80	59	85	59	77	48	87	55
July	193	43	69	45	75	61	72	59	70	58	76	58	83	55	77	54	80	58
July	194	53	71	43	69	58	78	50	75	48	70	43	84	58	79	47	85	53
July	195	53	79	43	65	53	79	45	83	48	75	51	83	54	80	48	85	54
July	196	53	82	47	67	49	82	54	83	60	84	54	89	59	79	49	87	58
July	197	54	90	48	70	52	77	52	83	57	82	56	100	65	80	58	86	60
July	198	57	93	60	71	54	79	54	87	58	77	54	94	74	81	56	81	51
July	199	51	82	59	83	55	81	64	85	58	80	55	94	63	79	55	81	55
July	200	49	74	52	73	52	80	53	90	59	88	55	89	56	82	50	72	48

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
July	201	49	71	48	80	51	89	54	87	55	90	61	89	58	86	53	83	58	
July	202	61	70	54	83	50	85	51	84	58	89	61	87	61	87	58	86	60	
July	203	63	74	45	75	45	89	63	91	68	89	61	75	50	85	59	81	49	
July	204	59	81	42	71	50	89	65	93	58	81	59	83	51	82	52	86	54	
July	205	na	88	57	73	48	88	62	87	63	77	47	96	61	88	48	84	56	
July	206	62	84	55	69	49	94	70	81	56	75	54	91	64	78	51	74	52	
July	207	52	80	58	69	57	70	58	77	49	77	53	83	57	72	52	76	52	
July	208	51	78	60	68	52	64	50	87	59	76	53	80	63	75	50	79	55	
July	209	56	86	56	65	48	75	43	88	51	80	58	76	57	83	47	79	50	
July	210	73	86	51	69	46	75	52	80	51	86	56	79	46	91	48	77	50	
July	211	60	79	53	70	46	75	48	82	58	70	56	91	55	87	54	86	59	
July	212	48	84	54	68	50	86	48	88	54	73	46	94	67	88	53	83	53	
Aug	213	52	85	57	71	45	89	57	87	69	na	na	82	55	89	56	62	46	
Aug	214	62	89	57	73	59	78	49	na	na	na	na	83	57	81	50	79	41	
Aug	215	51	97	54	80	49	82	57	na	na	na	na	79	60	75	43	83	46	
Aug	216	54	94	56	83	54	83	54	na	na	na	na	78	62	80	45	83	54	
Aug	217	49	91	53	78	53	85	50	na	na	na	na	81	65	83	57	86	60	
Aug	218	60	94	54	73	46	88	52	na	na	na	na	80	60	79	49	86	50	
Aug	219	58	87	58	81	48	89	54	na	na	na	na	72	51	86	56	88	58	
Aug	220	44	83	54	89	69	86	60	na	na	na	na	74	46	76	49	94	56	
Aug	221	52	80	54	85	53	81	55	na	na	na	na	70	48	na	40	86	53	
Aug	222	39	71	52	83	55	89	63	na	na	na	na	73	44	78	46	65	48	
Aug	223	43	72	42	70	52	80	60	na	na	na	na	81	50	83	50	54	47	
Aug	224	47	78	49	77	46	73	58	na	na	na	na	69	51	87	59	73	43	
Aug	225	49	83	49	83	51	73	40	na	na	na	na	73	36	85	50	71	49	
Aug	226	52	87	51	87	60	80	50	na	na	na	na	78	54	85	49	71	52	
Aug	227	52	87	52	78	48	84	53	na	na	na	na	81	42	81	46	72	53	
Aug	228	61	89	54	75	43	78	50	na	na	na	na	89	50	81	49	71	50	
Aug	229	57	81	61	79	59	78	59	na	na	na	na	77	56	75	48	64	42	
Aug	230	48	82	53	83	57	74	51	na	na	na	na	72	41	73	49	75	42	
Aug	231	43	84	56	75	50	83	45	na	na	na	na	72	52	75	40	69	49	
Aug	232	44	87	60	80	45	87	59	na	na	na	na	58	49	86	46	73	43	
Aug	233	47	80	54	87	56	75	56	na	na	na	na	53	41	89	67	85	53	
Aug	234	59	80	48	78	55	75	47	na	na	na	na	56	35	80	53	79	55	
Aug	235	54	85	49	70	42	76	51	na	na	na	na	62	35	88	51	83	53	
Aug	236	60	79	55	69	35	77	51	na	na	na	na	71	38	84	55	76	46	
Aug	237	43	84	49	81	41	86	55	na	na	na	na	82	40	na	57	70	44	
Aug	238	56	81	60	86	44	78	55	na	na	na	na	87	45	72	36	78	45	
Aug	239	35	82	49	87	47	82	54	na	na	na	na	85	63	89	49	83	47	
Aug	240	59	84	49	63	34	73	50	na	na	na	na	81	44	87	56	80	52	
Aug	241	58	93	49	57	36	69	42	na	na	na	na	87	46	86	50	74	57	
Aug	242	41	82	63	48	39	68	47	na	na	na	na	87	70	70	54	63	44	
Aug	243	41	83	63	63	35	72	45	na	na	na	na	76	59	64	50	65	39	
Sept	244	54	75	49	70	37	65	54	na	na	76	35	65	52	72	45	66	40	
Sept	245	57	70	26	76	40	63	52	84	50	73	40	75	52	85	47	76	40	
Sept	246	58	58	33	67	33	63	48	72	50	80	44	74	48	78	49	72	50	
Sept	247	51	64	32	55	26	70	44	64	37	66	42	76	42	76	44	54	42	
Sept	248	64	57	34	68	30	81	47	62	37	59	33	77	44	76	51	53	37	
Sept	249	57	70	40	79	35	80	46	75	48	54	39	75	42	84	48	61	35	
Sept	250	60	81	43	80	40	85	46	63	38	56	40	87	46	75	52	72	39	

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		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	55	75	51	62	30	77	53	62	41	77	45	85	47	75	52	74	43
Sept	252	45	76	50	40	28	71	54	83	41	69	43	82	50	74	58	55	46
Sept	253	33	67	41	70	25	78	47	70	49	60	39	84	49	77	52	69	36
Sept	254	41	53	39	82	39	74	46	57	36	65	40	87	55	81	52	75	39
Sept	255	44	47	34	66	35	68	52	53	38	59	45	81	52	75	39	80	45
Sept	256	41	42	33	70	37	86	46	64	32	65	36	67	41	46	38	78	51
Sept	257	39	53	26	64	36	72	53	73	45	64	51	62	33	50	43	78	45
Sept	258	47	67	29	72	48	65	36	63	34	53	38	62	43	52	46	79	58
Sept	259	40	80	40	65	39	80	46	66	50	38	26	55	46	51	43	70	43
Sept	260	44	78	52	66	35	69	49	71	40	33	25	60	35	57	40	47	39
Sept	261	43	80	51	68	36	63	49	81	41	35	27	68	32	52	46	57	34
Sept	262	47	61	32	58	37	60	51	61	42	39	25	74	44	55	43	68	42
Sept	263	37	61	34	64	41	63	44	53	39	50	29	79	44	64	32	72	42
Sept	264	44	52	37	63	39	58	50	66	35	55	33	69	43	74	38	74	50
Sept	265	41	47	34	59	47	62	42	61	36	42	36	74	43	83	56	68	51
Sept	266	33	48	33	69	45	77	44	56	38	38	25	77	41	83	43	57	41
Sept	267	31	47	34	59	45	66	44	51	40	59	30	78	50	78	43	59	30
Sept	268	41	60	27	63	37	74	38	65	34	65	30	62	44	78	47	59	35
Sept	269	49	55	34	67	36	83	42	75	35	46	22	52	48	64	41	65	35
Sept	270	38	47	27	75	52	84	42	55	34	42	28	63	38	60	27	64	40
Sept	271	42	73	35	71	51	62	47	62	26	36	33	64	40	77	38	69	37
Sept	272	31	62	29	61	47	76	32	63	33	36	32	60	38	76	41	62	40
Sept	273	37	41	18	50	32	83	35	68	33	54	34	45	34	80	46	66	35
Oct	274	27	47	29	46	40	77	44	72	40	69	33	65	30	72	48	73	36
Oct	275	39	57	27	60	42	68	39	68	38	61	37	56	38	63	49	70	45
Oct	276	39	67	29	63	40	80	43	65	27	65	37	46	31	73	52	64	32
Oct	277	37	67	37	67	35	84	46	53	42	77	33	46	30	60	40	48	25
Oct	278	38	73	38	74	44	81	59	51	26	76	41	63	31	65	42	65	27
Oct	279	41	73	38	57	44	67	43	52	24	65	35	73	36	60	41	58	39
Oct	280	37	53	34	56	37	66	42	64	26	60	35	73	41	52	40	62	29
Oct	281	42	35	28	63	38	69	38	56	43	68	36	73	32	62	35	54	41
Oct	282	44	53	30	69	36	81	43	53	27	80	41	56	35	57	39	45	23
Oct	283	38	51	47	71	37	62	46	61	30	69	36	57	31	58	31	51	21
Oct	284	32	62	37	57	42	68	35	63	36	54	28	66	33	72	37	65	36
Oct	285	37	52	34	70	48	82	57	56	37	64	27	64	33	65	43	63	31
Oct	286	37	59	31	75	44	70	48	63	30	63	33	56	34	56	37	71	50
Oct	287	30	67	35	71	42	64	46	74	31	68	34	37	28	51	43	72	50
Oct	288	24	75	37	54	33	66	37	77	48	75	44	39	11	46	33	69	47
Oct	289	21	75	38	47	23	65	38	76	38	71	36	45	21	62	30	62	45
Oct	290	26	54	35	53	26	68	38	56	41	57	32	56	27	56	33	47	30
Oct	291	30	43	26	61	35	72	44	46	29	49	32	46	31	62	29	41	30
Oct	292	32	69	26	47	29	68	39	42	24	56	30	61	29	63	38	54	19
Oct	293	14	69	43	55	22	55	44	51	22	56	34	67	36	56	28	53	36
Oct	294	24	70	32	62	33	62	37	67	37	63	29	54	31	72	32	69	33
Oct	295	30	60	29	48	31	73	38	68	32	65	35	42	28	65	46	60	40
Oct	296	40	46	25	44	28	71	42	47	37	62	38	51	29	52	35	51	26
Oct	297	33	41	27	33	25	59	39	57	24	72	32	52	37	42	33	46	35
Oct	298	35	48	21	49	16	66	39	61	31	60	32	67	35	55	27	58	25
Oct	299	40	65	34	63	26	49	29	62	27	65	32	70	35	47	32	65	32
Oct	300	33	58	28	55	40	48	20	65	29	63	33	61	38	48	24	55	34

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		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	39	41	31	58	35	56	17	49	28	64	34	52	31	52	36	55	35
Oct	302	27	31	18	61	31	61	32	56	30	63	33	58	29	42	31	41	28
Oct	303	26	45	14	57	30	42	30	67	33	69	38	58	35	42	26	63	28
Oct	304	25	50	20	53	36	37	24	65	40	54	28	49	32	63	35	75	34
Nov	305	20	54	29	44	28	44	20	50	40	70	35	32	18	47	27	71	44
Nov	306	29	40	8	39	30	61	27	63	34	71	32	54	13	30	17	51	26
Nov	307	32	39	7	55	29	49	24	59	44	55	36	42	27	24	15	49	26
Nov	308	27	39	14	44	29	55	33	49	32	61	28	33	21	25	11	55	29
Nov	309	28	28	14	61	30	46	32	52	22	59	32	54	20	34	10	45	37
Nov	310	18	55	11	47	35	59	25	66	28	53	31	44	28	42	17	37	26
Nov	311	24	37	25	40	28	55	32	58	26	53	29	35	21	52	20	30	25
Nov	312	31	59	16	57	24	50	23	60	28	45	29	25	9	53	27	29	25
Nov	313	13	57	26	57	27	50	31	65	30	52	26	33	-1	58	33	34	21
Nov	314	3	62	28	55	35	45	30	60	29	48	29	37	21	50	35	35	24
Nov	315	5	45	31	45	22	42	31	57	35	52	26	28	10	51	30	33	14
Nov	316	25	38	22	57	27	39	17	50	31	35	22	49	15	47	29	42	10
Nov	317	28	40	16	57	29	45	19	41	27	36	23	48	26	51	37	59	21
Nov	318	28	54	24	43	25	59	27	41	22	55	22	61	29	49	31	46	26
Nov	319	27	37	19	32	25	59	34	30	24	58	34	60	32	58	35	32	21
Nov	320	23	24	11	30	23	46	32	25	19	40	25	60	32	49	30	42	15
Nov	321	18	33	3	30	22	44	20	32	12	48	25	55	30	51	30	33	22
Nov	322	28	35	5	34	17	47	22	32	20	52	30	56	24	53	22	22	11
Nov	323	22	32	12	43	22	51	19	29	11	51	35	54	28	34	27	29	2
Nov	324	24	38	9	57	33	42	19	30	14	48	26	61	32	50	24	38	24
Nov	325	20	29	19	34	25	19	7	30	0	47	22	64	40	40	19	54	28
Nov	326	34	38	17	37	18	34	15	38	-1	48	27	49	30	43	9	55	32
Nov	327	22	40	27	35	16	46	20	53	21	48	26	40	26	36	30	51	30
Nov	328	18	51	25	47	15	42	32	42	19	40	20	36	29	43	27	44	30
Nov	329	25	51	35	55	25	42	19	51	23	27	19	54	22	36	20	41	22
Nov	330	28	45	21	54	33	61	33	45	10	29	17	47	24	27	11	33	25
Nov	331	34	47	19	53	26	57	30	40	10	33	23	34	16	25	7	36	13
Nov	332	10	45	22	45	25	35	28	40	8	34	28	53	20	31	8	42	18
Nov	333	6	31	20	39	30	42	20	13	0	39	15	52	19	42	14	36	17
Nov	334	3	50	20	47	22	50	18	17	1	54	21	19	4	45	30	43	11
Dec	335	11	47	25	47	30	42	29	50	8	44	23	15	4	39	22	44	23
Dec	336	20	50	22	49	21	49	22	35	12	51	21	22	1	41	9	44	28
Dec	337	29	49	29	43	31	49	30	12	5	49	29	51	12	53	28	28	21
Dec	338	32	32	16	32	23	53	23	24	6	60	35	44	24	48	29	37	11
Dec	339	28	39	24	35	13	54	25	31	15	47	28	55	28	50	28	33	17
Dec	340	12	29	19	43	35	54	30	34	23	57	28	42	28	42	25	30	7
Dec	341	10	30	10	40	30	39	19	36	14	51	30	38	27	32	8	24	15
Dec	342	12	23	11	35	19	20	9	45	18	50	24	40	12	22	17	28	1
Dec	343	23	12	-7	35	11	16	9	50	21	49	22	18	-1	29	11	52	17
Dec	344	18	-1	-15	34	9	10	3	40	23	54	30	36	6	43	15	44	22
Dec	345	14	7	-18	15	-5	16	-8	39	18	40	30	44	17	41	23	53	24
Dec	346	16	10	-11	50	11	13	-1	36	18	39	25	51	26	23	12	49	35
Dec	347	15	26	-4	53	24	2	-8	23	14	26	17	51	25	15	5	36	8
Dec	348	21	24	-11	50	26	15	-13	28	13	22	15	51	29	14	-5	26	3
Dec	349	28	38	11	53	32	21	-8	31	18	20	2	42	28	32	2	37	6
Dec	350	14	35	10	55	29	20	7	37	15	25	5	52	29	48	21	44	22

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1960	1961	1961	1962	1962	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
Dec	351	16	35	9	55	29	7	-1	15	-21	29	15	51	28	32	20	47	22	
Dec	352	9	30	5	49	28	39	-7	6	-23	37	10	51	28	26	10	41	25	
Dec	353	18	21	5	35	32	24	8	10	-7	45	24	51	36	20	-1	27	22	
Dec	354	14	45	15	35	28	29	6	22	7	47	22	51	36	14	-1	22	14	
Dec	355	5	45	29	40	20	19	12	45	12	48	25	42	23	11	-1	14	7	
Dec	356	2	29	14	40	5	32	12	44	29	35	24	23	12	32	4	12	1	
Dec	357	-6	39	17	10	-5	52	13	51	43	26	19	31	1	46	29	7	3	
Dec	358	8	46	21	11	-2	52	31	50	27	30	12	24	9	42	26	17	-2	
Dec	359	26	35	23	15	-6	52	24	29	9	44	14	23	6	28	15	18	7	
Dec	360	24	25	12	27	3	40	31	23	9	38	4	18	4	26	10	33	7	
Dec	361	15	21	8	38	11	31	14	37	7	39	5	11	3	27	-2	25	16	
Dec	362	11	21	2	43	20	35	22	49	17	51	37	24	0	29	17	16	4	
Dec	363	3	34	5	44	3	31	23	40	24	54	48	30	18	29	19	27	0	
Dec	364	16	33	30	47	24	42	16	29	16	50	32	31	19	19	-8	7	-20	
Dec	365	24	34	22	43	17	51	30	31	10	40	24	29	20	30	-18	-11	-24	
29-Feb	366	12							36	13							17	-13	

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	44	9	22	10	31	15	31	20	26	4	4	-21	38	10	14	3	24
Jan	2	37	14	21	10	17	7	25	11	36	10	11	-5	25	11	15	-2	19
Jan	3	28	6	21	12	12	1	11	-4	30	-6	15	-6	33	9	6	-9	34
Jan	4	39	6	15	-3	8	-2	20	-12	2	-16	16	-5	34	9	29	-8	34
Jan	5	48	32	6	-9	2	-7	27	12	18	-10	4	-9	30	9	40	10	17
Jan	6	34	16	8	-1	12	-6	37	17	6	-12	15	-16	35	14	29	-11	29
Jan	7	44	18	0	-6	29	-6	51	16	0	-6	22	8	31	12	-6	-14	35
Jan	8	43	8	10	-19	36	14	42	22	-1	-17	16	-5	39	15	25	-19	3
Jan	9	23	-1	38	-4	33	7	37	22	10	-17	11	-8	34	16	38	15	8
Jan	10	24	4	46	21	14	-3	35	8	25	-11	3	-12	18	-3	30	11	21
Jan	11	30	6	35	20	-1	-9	35	13	36	2	11	-21	3	-14	40	8	17
Jan	12	33	11	37	8	12	-11	35	3	46	20	37	-6	23	-8	33	19	36
Jan	13	50	8	46	20	35	-5	3	-20	48	31	44	16	33	22	27	11	36
Jan	14	51	31	48	21	29	6	-2	-19	52	36	50	27	35	29	38	4	26
Jan	15	43	28	34	4	42	7	38	-13	59	28	53	38	31	11	34	24	3
Jan	16	30	12	4	-9	46	23	54	30	56	34	60	45	28	-3	43	19	27
Jan	17	33	11	-3	-17	39	30	51	27	47	34	53	36	43	17	49	32	29
Jan	18	24	6	12	-12	37	23	42	11	43	24	43	23	35	27	43	26	40
Jan	19	48	13	31	-1	50	21	51	4	45	22	51	30	36	11	31	21	37
Jan	20	24	-2	24	15	49	29	38	8	32	25	43	31	44	23	43	23	39
Jan	21	53	-2	42	20	33	12	48	32	33	16	31	21	26	18	49	20	43
Jan	22	4	-11	40	29	27	2	38	27	31	17	26	1	39	12	55	23	35
Jan	23	2	-13	56	28	37	18	37	20	46	21	34	13	45	27	44	28	35
Jan	24	7	-7	53	25	na	na	21	-8	61	27	40	20	36	30	29	18	25
Jan	25	14	-10	44	25	35	22	-8	-18	54	25	43	23	33	26	20	2	29
Jan	26	49	1	35	24	24	15	-12	-20	36	25	38	23	29	14	24	-3	28
Jan	27	49	-5	49	26	44	18	-8	-20	25	10	33	16	20	0	49	18	31
Jan	28	11	-8	38	15	47	25	26	-17	36	-6	39	25	18	3	47	30	8
Jan	29	15	-2	25	17	48	23	18	13	50	17	43	23	20	2	51	29	16
Jan	30	30	-2	39	14	23	3	33	16	46	22	42	15	17	0	39	27	13
Jan	31	24	10	44	15	16	2	29	9	41	19	27	11	20	-2	47	24	37
Feb	32	31	15	32	16	30	8	16	-2	36	16	44	10	40	11	43	33	44
Feb	33	24	5	18	3	33	14	14	-12	47	13	33	29	48	9	43	27	34
Feb	34	38	12	41	7	22	5	19	8	53	18	36	28	28	5	39	11	45
Feb	35	53	13	37	20	28	1	34	-1	43	23	44	24	5	-4	11	-2	37
Feb	36	47	22	37	16	16	2	39	17	36	22	35	6	1	-9	4	-8	44
Feb	37	42	12	43	15	10	-7	32	10	23	4	25	-8	23	-5	28	-12	33
Feb	38	27	8	37	23	10	-21	41	18	15	-1	21	13	21	1	40	20	46
Feb	39	38	5	37	14	13	7	38	18	32	-3	31	5	4	-10	55	24	50
Feb	40	50	12	54	12	42	3	33	13	38	4	44	21	45	-17	53	37	51
Feb	41	36	10	53	23	45	23	37	3	40	7	42	23	36	14	37	21	48
Feb	42	32	12	40	21	37	28	48	12	44	22	49	23	35	15	48	18	44
Feb	43	33	15	33	16	46	18	40	22	45	22	43	20	26	2	51	35	40
Feb	44	56	21	19	15	50	30	49	29	26	8	42	20	57	25	46	22	42
Feb	45	33	24	37	15	48	33	32	23	23	-4	45	20	38	14	54	28	29
Feb	46	35	16	44	25	55	28	37	14	27	4	40	27	27	7	42	26	41
Feb	47	30	19	50	26	40	22	46	29	41	10	50	20	35	12	40	18	47
Feb	48	35	21	54	36	45	17	44	21	41	21	44	31	27	16	36	22	45
Feb	49	38	20	40	11	34	24	43	12	41	19	43	18	29	4	35	23	35
Feb	50	42	16	28	12	32	23	57	25	30	19	45	20	35	13	36	17	38

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	32	22	41	25	24	17	56	29	38	12	40	25	42	16	31	18	50
Feb	52	22	9	53	23	21	-1	43	23	47	10	30	19	32	15	38	11	56
Feb	53	29	6	48	17	35	3	54	16	49	21	42	8	23	1	51	22	41
Feb	54	35	11	52	26	37	7	48	16	57	26	35	16	28	2	55	26	35
Feb	55	41	18	41	21	46	15	33	12	43	24	32	8	48	20	50	26	30
Feb	56	54	22	46	14	38	26	36	13	43	23	54	13	33	19	48	22	32
Feb	57	40	24	44	35	26	15	40	19	50	24	54	21	30	5	54	28	35
Feb	58	32	20	37	22	23	12	53	27	56	24	53	31	36	19	48	32	31
Feb	59	42	8	25	18	35	1	60	39	53	26	51	20	40	23	49	23	27
Mar	60	43	20	39	18	20	0	54	22	55	26	59	35	40	30	27	15	36
Mar	61	26	17	55	27	23	-4	33	8	45	30	61	37	34	24	28	13	26
Mar	62	26	13	33	13	44	8	45	17	46	22	39	26	35	24	16	1	20
Mar	63	32	18	33	11	38	19	41	14	45	25	36	15	41	20	18	-8	27
Mar	64	41	12	37	20	28	20	31	6	37	24	50	30	37	28	10	0	32
Mar	65	35	16	46	16	21	4	51	20	42	29	46	25	34	19	26	-5	45
Mar	66	18	6	57	26	29	-3	63	35	44	16	41	19	24	9	41	14	55
Mar	67	14	-5	43	28	44	13	36	17	39	18	55	26	32	7	41	15	55
Mar	68	14	5	32	10	41	16	43	8	48	25	42	19	29	17	47	18	54
Mar	69	22	-4	23	6	44	20	64	21	50	23	51	24	27	7	47	24	43
Mar	70	35	0	29	0	48	22	74	32	52	23	41	30	27	14	50	28	32
Mar	71	21	14	31	5	54	19	61	31	46	28	52	23	29	3	54	12	39
Mar	72	20	11	35	1	54	36	50	37	45	26	60	33	43	7	20	-1	54
Mar	73	34	-2	41	26	36	28	59	28	33	24	37	18	43	14	43	10	44
Mar	74	46	13	37	16	38	26	49	33	35	13	29	18	51	16	27	11	37
Mar	75	54	34	46	11	37	19	50	28	43	10	47	14	51	32	36	16	44
Mar	76	53	28	35	26	31	19	55	30	54	20	62	33	49	27	42	18	44
Mar	77	53	28	29	19	25	17	51	41	45	25	60	29	48	25	57	24	38
Mar	78	45	31	27	18	31	15	65	28	41	22	33	13	50	32	58	29	35
Mar	79	38	24	41	2	50	21	64	37	57	18	20	3	56	35	49	34	31
Mar	80	49	22	38	18	43	16	51	34	57	35	34	7	48	32	36	24	35
Mar	81	45	25	33	23	20	-5	55	26	43	31	30	4	43	26	35	24	47
Mar	82	38	26	41	23	25	14	61	28	36	28	10	-4	45	18	51	18	60
Mar	83	26	20	40	30	40	13	69	40	33	28	35	-5	45	13	57	38	59
Mar	84	30	12	31	24	38	26	50	30	43	19	44	16	41	2	52	25	46
Mar	85	36	13	36	12	59	26	56	22	56	21	55	26	32	13	47	36	49
Mar	86	53	19	29	9	54	33	47	26	40	28	61	33	13	3	46	30	56
Mar	87	46	13	41	17	41	28	48	20	35	24	62	32	12	-3	55	24	46
Mar	88	27	10	34	25	51	22	28	11	37	18	51	38	19	-5	46	27	25
Mar	89	40	12	28	18	64	28	30	8	43	29	57	27	46	9	41	18	25
Mar	90	62	28	27	17	35	21	32	12	47	26	54	31	43	16	41	18	44
Apr	91	53	37	37	14	33	18	35	11	45	24	51	26	20	10	57	20	39
Apr	92	65	26	39	27	47	17	56	15	40	30	43	28	32	-2	67	32	33
Apr	93	66	34	36	15	42	31	57	25	37	28	31	23	47	13	54	26	30
Apr	94	56	29	50	24	34	26	34	14	49	14	41	18	58	23	44	23	31
Apr	95	67	30	50	39	46	13	51	17	57	31	52	22	46	28	61	25	43
Apr	96	77	38	63	28	64	23	67	31	48	26	60	32	37	29	65	27	59
Apr	97	69	40	66	44	69	37	66	39	28	17	51	32	44	33	59	37	65
Apr	98	49	31	46	30	55	34	61	33	29	4	53	24	38	30	51	32	70
Apr	99	43	32	56	26	65	25	51	30	26	13	61	27	34	19	53	39	73
Apr	100	61	29	60	36	72	52	60	38	42	3	59	37	36	22	69	42	56

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD															
		sd220704		1943-1999													
		Source - SDSU Climate Center (Bender, 2000a)										na=not available					
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	65	33	46	32	62	26	55	37	53	21	40	30	34	27	57	39	51
Apr	102	60	36	33	26	45	30	62	42	56	26	35	29	48	18	56	35	46
Apr	103	65	41	30	21	55	23	59	45	64	28	37	30	45	22	79	35	54
Apr	104	51	39	31	22	70	28	52	29	52	14	41	30	48	20	73	42	61
Apr	105	46	32	31	25	74	34	53	32	38	22	38	27	48	28	57	35	53
Apr	106	37	32	35	23	66	34	56	29	55	22	62	19	51	32	64	42	62
Apr	107	53	29	37	22	71	33	65	38	64	31	56	28	45	32	55	34	55
Apr	108	68	29	33	24	54	42	61	35	62	35	67	28	34	25	36	30	54
Apr	109	63	36	32	23	43	35	37	28	42	32	66	52	45	21	48	29	42
Apr	110	62	35	31	25	54	38	35	27	40	32	52	38	53	27	58	30	54
Apr	111	61	27	40	22	49	37	49	29	36	24	41	37	58	28	54	26	62
Apr	112	70	34	37	24	48	37	58	28	54	29	59	29	64	41	47	30	64
Apr	113	71	48	46	25	57	31	53	31	61	31	65	30	58	34	63	26	60
Apr	114	77	51	55	24	55	33	na	na	49	36	79	50	54	37	56	38	61
Apr	115	68	30	55	29	42	31	54	21	40	31	75	41	69	38	44	32	65
Apr	116	33	27	47	30	35	28	56	39	42	28	70	50	70	40	54	28	73
Apr	117	30	22	49	33	35	26	50	32	64	27	68	43	66	42	49	34	68
Apr	118	49	10	47	32	47	20	38	33	60	35	53	29	46	32	36	29	69
Apr	119	61	26	43	27	56	32	48	33	54	31	53	34	38	28	42	33	70
Apr	120	53	34	43	31	57	31	53	30	37	33	59	33	38	28	44	35	77
May	121	56	30	48	28	58	33	46	36	43	29	73	39	47	26	51	32	65
May	122	62	30	63	29	70	32	37	29	44	29	70	37	49	30	64	35	71
May	123	71	51	66	34	71	40	45	31	58	27	54	27	66	30	51	20	76
May	124	64	44	70	31	66	38	48	28	71	37	61	30	74	35	63	24	69
May	125	60	40	67	33	58	37	67	29	66	35	65	37	73	44	75	44	62
May	126	67	34	79	57	58	30	62	38	58	40	73	38	53	42	64	37	54
May	127	65	38	76	44	56	31	52	32	60	32	67	40	56	36	52	29	69
May	128	55	27	63	36	70	34	53	35	67	31	67	34	52	37	58	28	71
May	129	69	30	51	34	62	44	48	35	59	34	68	38	60	38	70	34	78
May	130	65	29	54	35	53	36	46	39	55	35	58	37	56	38	71	37	77
May	131	na	na	57	40	53	30	52	25	50	33	51	34	56	41	67	40	71
May	132	76	37	63	40	66	32	52	40	53	27	65	36	55	42	70	44	82
May	133	74	39	61	35	76	37	53	31	57	27	64	45	64	37	48	36	78
May	134	78	52	44	32	73	45	60	38	58	26	46	29	64	36	68	32	72
May	135	72	44	57	32	61	37	76	38	77	37	55	29	77	43	83	42	69
May	136	54	35	70	39	76	48	79	41	70	36	53	34	81	55	71	36	67
May	137	67	31	80	42	55	35	82	44	76	49	50	34	74	50	56	31	70
May	138	69	33	78	45	49	33	87	51	80	42	70	43	78	43	64	33	58
May	139	65	42	67	46	50	31	80	56	71	42	68	46	69	40	78	43	53
May	140	57	38	65	56	62	30	70	49	80	57	59	50	46	33	73	45	58
May	141	49	31	70	34	65	37	70	48	75	43	57	30	43	37	68	39	53
May	142	57	29	63	31	62	47	80	67	70	37	58	39	51	42	61	46	64
May	143	68	34	67	42	50	35	71	45	73	45	61	30	55	41	50	43	80
May	144	77	43	67	48	60	41	66	43	56	40	70	36	70	37	44	40	82
May	145	80	49	64	35	64	34	67	38	58	33	67	48	67	31	59	39	77
May	146	89	49	80	40	69	42	72	43	52	36	74	45	60	30	68	40	67
May	147	93	54	73	52	74	46	60	40	44	34	74	48	59	37	63	39	68
May	148	89	51	63	33	79	47	61	44	53	39	68	44	57	38	71	38	65
May	149	80	41	70	35	66	46	57	43	50	37	56	43	60	33	77	40	65
May	150	83	49	62	43	62	45	58	39	66	32	48	37	61	30	67	49	61

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	71	38	53	48	52	47	70	35	80	39	60	30	54	43	62	42	74
June	152	50	35	56	31	57	44	78	39	77	42	60	31	58	36	71	45	78
June	153	63	29	66	31	72	44	82	43	67	48	74	39	69	35	76	44	87
June	154	73	41	70	41	75	43	80	55	60	38	81	43	75	52	78	50	75
June	155	78	50	73	39	71	47	73	54	62	35	80	48	65	45	84	50	83
June	156	88	52	77	40	73	48	76	56	69	40	66	46	70	40	84	65	81
June	157	85	57	80	46	71	45	71	48	80	44	60	36	73	49	80	56	78
June	158	73	54	85	55	58	42	79	48	83	48	61	33	70	52	74	53	84
June	159	57	49	79	53	71	43	85	60	81	46	59	41	60	50	80	53	79
June	160	72	55	81	48	79	56	84	53	87	55	56	48	51	38	83	52	83
June	161	71	43	68	53	78	45	78	53	81	52	62	36	57	40	87	56	77
June	162	56	39	64	40	75	52	80	54	66	57	62	38	63	35	83	54	66
June	163	56	34	62	48	72	44	85	58	77	46	76	42	75	38	83	56	67
June	164	43	30	75	32	73	46	80	56	90	52	82	45	73	48	60	48	69
June	165	57	34	79	50	77	49	67	50	84	57	79	46	58	48	69	41	78
June	166	66	41	74	42	73	48	71	43	73	55	69	40	67	44	56	37	75
June	167	64	40	72	42	76	56	73	46	64	42	72	42	59	42	63	40	69
June	168	72	37	66	43	72	57	73	52	77	37	83	50	61	38	68	39	61
June	169	75	45	65	43	80	56	77	57	66	33	85	53	56	45	61	46	66
June	170	75	55	73	47	76	55	72	53	57	36	88	54	70	47	56	32	73
June	171	75	44	65	45	77	51	55	38	65	43	95	61	78	43	76	34	68
June	172	68	49	73	41	80	56	60	31	70	40	89	54	73	46	84	45	73
June	173	71	54	87	48	79	49	68	40	78	41	69	44	68	41	80	52	74
June	174	68	51	81	60	86	53	75	45	89	46	78	54	78	45	84	49	79
June	175	68	43	85	49	82	58	84	56	87	54	85	51	86	53	64	47	80
June	176	65	48	80	52	86	56	80	51	83	48	89	51	87	63	60	42	89
June	177	59	46	89	48	82	58	79	52	81	56	98	65	76	48	69	42	85
June	178	66	48	99	63	72	57	72	45	81	47	83	49	84	50	60	39	78
June	179	67	49	94	63	75	49	67	49	79	48	83	54	78	53	73	41	74
June	180	69	43	88	58	69	53	73	43	83	55	80	51	85	53	78	40	79
June	181	65	44	84	57	75	39	84	46	80	52	86	48	83	60	70	40	70
July	182	74	48	80	42	79	44	85	55	82	58	89	69	94	62	79	50	80
July	183	82	54	79	41	84	62	79	51	79	40	83	51	82	60	84	50	86
July	184	86	57	76	46	76	51	60	41	82	48	59	50	93	60	78	54	80
July	185	79	46	79	43	69	48	56	38	87	52	83	41	89	60	74	52	82
July	186	75	46	86	51	76	47	62	35	95	59	94	51	82	63	80	50	81
July	187	78	56	85	62	90	54	74	38	100	55	86	52	85	60	79	59	83
July	188	77	59	84	55	84	49	73	46	94	58	87	49	80	54	83	54	74
July	189	78	50	86	52	76	42	80	50	90	60	82	53	76	54	86	52	72
July	190	79	52	84	56	83	55	81	47	88	54	89	55	70	57	91	56	83
July	191	77	51	84	53	89	50	89	65	91	58	88	62	73	48	87	54	82
July	192	91	50	87	54	83	56	85	60	99	65	90	60	68	43	80	56	73
July	193	93	51	82	57	80	55	83	53	89	56	87	50	76	44	90	60	87
July	194	90	64	84	57	76	47	80	49	77	52	91	51	84	49	95	66	95
July	195	87	75	82	56	78	49	90	53	73	40	87	53	86	54	80	58	73
July	196	81	58	77	42	85	44	84	52	81	45	87	63	88	54	78	53	80
July	197	76	57	90	56	89	46	72	42	91	55	84	71	89	59	70	45	92
July	198	77	53	87	50	85	59	77	44	90	58	86	60	88	na	78	45	96
July	199	75	60	87	52	81	57	74	47	84	49	83	59	79	50	81	60	93
July	200	73	59	82	50	75	44	77	42	74	52	82	60	83	48	82	60	85

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD															
		sd220704		1943-1999													
		Source - SDSU Climate Center (Bender, 2000a)										na=not available					
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	75	57	78	53	83	45	75	47	56	51	86	59	83	58	81	56	72
July	202	85	53	94	52	80	54	69	43	67	49	84	59	81	58	69	55	76
July	203	78	64	85	71	82	52	75	52	72	51	84	56	75	53	79	53	82
July	204	78	57	77	51	82	48	77	56	68	51	91	55	77	53	82	53	89
July	205	79	49	74	45	84	67	78	44	73	46	80	61	85	52	89	50	82
July	206	85	58	87	53	75	50	83	49	76	44	86	50	88	55	91	65	70
July	207	85	56	84	52	71	38	81	58	80	48	87	47	84	58	83	51	79
July	208	75	55	84	57	69	42	80	49	78	48	84	54	97	62	81	50	78
July	209	83	47	86	60	64	38	75	55	78	50	82	52	96	58	83	63	80
July	210	84	58	85	58	64	36	79	51	88	56	84	47	85	na	80	49	95
July	211	80	60	89	58	75	38	89	49	75	47	82	51	na	58	88	53	84
July	212	80	49	76	52	83	41	90	52	80	46	73	54	na	na	72	53	74
Aug	213	79	57	85	50	77	53	79	56	80	46	76	46	72	52	71	54	81
Aug	214	83	49	81	55	77	46	74	54	85	47	61	50	79	43	63	59	84
Aug	215	93	69	79	56	84	54	73	52	89	51	67	39	82	47	69	59	79
Aug	216	90	60	83	54	87	58	62	47	84	55	74	39	81	49	82	54	87
Aug	217	88	70	88	60	89	57	76	42	84	58	80	43	81	48	78	49	66
Aug	218	85	63	83	63	88	55	84	54	81	54	86	na	88	62	75	52	75
Aug	219	82	51	83	55	85	53	81	48	73	52	82	na	97	57	79	45	76
Aug	220	86	53	86	51	88	53	82	48	76	49	72	48	91	47	91	63	80
Aug	221	81	46	84	51	90	56	74	46	76	48	67	46	76	57	81	56	78
Aug	222	93	58	81	45	79	51	84	48	82	47	61	47	84	52	79	62	68
Aug	223	102	60	86	59	84	48	85	58	80	48	72	42	84	52	73	51	71
Aug	224	89	68	88	55	90	53	85	51	73	53	72	44	80	56	74	46	81
Aug	225	81	55	90	57	86	60	94	60	80	48	77	43	74	44	79	49	77
Aug	226	83	48	80	51	86	53	90	57	88	58	74	na	68	54	79	50	74
Aug	227	86	55	74	47	91	65	89	57	86	51	74	40	70	45	75	58	71
Aug	228	94	65	87	47	92	65	85	58	92	53	77	39	75	44	85	60	69
Aug	229	84	56	91	55	89	60	86	56	92	56	77	45	71	45	85	59	72
Aug	230	74	58	83	53	85	58	83	57	92	56	87	44	78	53	91	56	72
Aug	231	78	56	75	45	80	52	80	56	84	48	89	na	75	58	86	68	80
Aug	232	87	55	82	44	87	53	78	54	92	55	82	na	77	55	87	64	77
Aug	233	88	55	80	62	88	55	79	54	88	56	70	44	75	59	90	62	72
Aug	234	88	55	81	44	90	55	71	55	84	57	80	43	85	63	81	52	69
Aug	235	87	55	86	48	87	62	68	47	73	54	81	43	85	49	84	51	75
Aug	236	88	62	90	57	77	40	68	43	88	64	84	43	80	53	90	57	88
Aug	237	91	68	87	49	82	48	66	38	87	47	84	52	63	43	78	58	80
Aug	238	88	59	95	59	85	55	71	41	86	54	78	48	71	44	79	48	73
Aug	239	91	60	80	48	87	59	75	43	95	60	72	43	84	54	86	54	67
Aug	240	91	59	78	55	86	53	79	45	77	50	69	51	86	62	66	39	63
Aug	241	86	60	90	56	82	56	84	48	80	48	61	43	78	55	76	39	76
Aug	242	71	53	76	48	73	60	83	53	89	48	61	43	81	46	82	42	72
Aug	243	71	51	85	57	87	51	83	51	86	52	58	35	90	54	86	57	60
Sept	244	80	45	87	59	85	64	77	46	78	49	55	35	75	46	73	49	64
Sept	245	88	57	79	52	93	58	61	45	57	46	55	32	69	61	82	47	68
Sept	246	89	61	76	49	88	53	68	35	52	44	66	31	69	38	90	52	84
Sept	247	83	57	87	48	63	46	71	43	66	42	72	30	68	47	75	44	84
Sept	248	66	47	83	48	61	48	75	40	73	40	73	30	67	38	82	47	85
Sept	249	74	41	78	53	80	40	81	43	78	43	69	41	79	42	88	50	77
Sept	250	72	37	74	50	74	49	70	53	81	53	78	45	69	42	93	50	80

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	76	47	83	50	58	46	61	43	73	49	72	43	78	48	81	44	78
Sept	252	74	48	80	40	76	36	76	41	74	54	75	45	78	46	52	37	63
Sept	253	73	47	65	33	73	43	84	50	73	49	73	46	79	53	66	32	72
Sept	254	78	42	69	41	85	63	80	45	64	48	54	39	70	40	78	38	69
Sept	255	78	51	49	31	78	42	74	40	70	41	44	32	57	29	84	38	66
Sept	256	81	48	37	30	85	46	78	57	66	46	58	31	72	36	77	52	69
Sept	257	73	47	43	34	77	44	70	46	57	35	68	30	73	36	65	42	79
Sept	258	68	38	58	32	51	29	76	38	37	30	69	31	78	40	65	42	75
Sept	259	67	45	60	34	45	30	76	37	38	34	72	30	79	47	69	45	70
Sept	260	74	44	72	36	43	34	78	41	55	31	74	41	78	44	78	48	76
Sept	261	76	47	82	40	48	30	81	43	70	32	75	41	51	37	81	51	64
Sept	262	82	54	84	47	56	31	85	44	61	41	70	41	45	37	72	58	72
Sept	263	81	50	79	43	58	34	81	50	77	47	53	41	49	37	67	41	78
Sept	264	78	59	59	37	41	32	74	44	66	46	58	28	57	28	64	32	66
Sept	265	61	43	63	30	54	30	71	28	67	36	64	30	69	30	70	38	63
Sept	266	71	34	70	35	62	29	79	47	72	47	72	33	64	32	73	41	62
Sept	267	69	42	63	35	77	35	72	44	61	47	64	34	71	35	63	40	59
Sept	268	66	35	47	29	76	41	64	28	58	35	79	36	78	38	67	38	60
Sept	269	66	40	55	30	68	45	52	33	56	35	85	43	69	37	60	48	62
Sept	270	75	30	65	33	58	40	60	21	63	32	na	39	49	38	58	43	64
Sept	271	82	55	70	34	55	37	76	43	61	35	57	30	62	42	50	33	71
Sept	272	73	43	75	32	69	37	54	28	69	36	56	35	53	37	61	28	61
Sept	273	73	60	76	37	62	45	53	29	75	36	59	27	47	36	74	34	55
Oct	274	60	43	68	37	54	40	70	36	78	43	53	27	61	27	77	38	42
Oct	275	74	47	61	40	41	31	75	37	71	43	76	35	75	35	79	40	53
Oct	276	59	39	67	33	50	33	65	40	60	32	70	25	76	38	77	49	64
Oct	277	43	35	79	39	61	33	66	32	61	46	63	40	77	40	69	40	54
Oct	278	47	26	76	39	64	38	75	35	74	29	40	28	71	35	41	32	44
Oct	279	49	29	66	34	69	38	67	30	70	62	44	19	81	40	50	25	59
Oct	280	53	40	34	21	64	39	54	17	71	61	65	29	81	51	45	32	51
Oct	281	67	28	38	17	49	38	67	30	66	41	66	28	74	35	49	28	47
Oct	282	62	45	43	27	64	26	64	34	47	31	75	35	54	34	62	32	53
Oct	283	50	29	37	30	71	40	71	43	na	28	68	40	70	32	68	35	40
Oct	284	45	22	52	26	67	30	71	39	32	28	60	34	77	37	75	31	41
Oct	285	22	16	60	33	60	46	47	30	49	26	57	32	58	32	66	42	63
Oct	286	27	17	46	31	71	29	65	29	64	32	58	37	44	36	61	37	68
Oct	287	36	7	40	27	58	38	64	37	70	40	47	25	41	33	66	33	55
Oct	288	33	18	51	21	41	33	56	30	58	35	64	25	58	30	56	42	56
Oct	289	32	15	60	28	40	32	58	29	57	40	72	24	49	36	42	24	71
Oct	290	39	13	60	22	44	38	58	32	67	36	74	38	61	26	44	21	58
Oct	291	43	22	61	26	49	36	50	29	76	40	65	33	69	37	44	29	68
Oct	292	48	30	63	26	53	29	39	22	73	34	65	33	64	33	32	21	75
Oct	293	53	27	62	28	59	35	56	24	76	47	74	37	57	37	40	8	63
Oct	294	53	35	60	37	57	32	59	34	76	46	na	na	52	36	40	25	56
Oct	295	62	34	57	25	56	29	52	36	70	38	50	35	46	27	44	20	59
Oct	296	65	35	52	33	64	32	47	30	74	44	57	32	30	26	49	23	58
Oct	297	50	30	58	40	63	52	55	25	62	40	57	31	32	24	38	24	61
Oct	298	34	27	51	30	55	41	48	31	56	32	59	27	38	11	42	15	71
Oct	299	31	22	40	23	63	32	61	28	46	28	64	30	55	30	46	22	59
Oct	300	40	13	34	12	50	21	60	35	47	24	62	26	39	29	34	23	62

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	59	21	30	24	23	14	50	27	60	27	60	31	46	22	47	15	66
Oct	302	45	30	37	24	18	12	50	19	59	35	54	29	54	22	60	27	64
Oct	303	40	32	36	25	25	13	41	19	47	26	50	40	64	35	58	29	54
Oct	304	43	30	31	5	43	22	22	13	43	27	47	31	50	33	49	31	42
Nov	305	40	30	26	12	42	18	37	10	35	22	41	31	58	28	51	26	41
Nov	306	32	24	25	21	37	26	46	17	24	19	38	27	61	28	63	29	62
Nov	307	38	10	24	22	41	17	49	22	19	10	37	27	62	33	48	27	46
Nov	308	49	30	40	11	56	30	50	27	24	8	47	19	68	33	46	22	68
Nov	309	63	34	48	16	45	18	55	25	36	3	50	23	72	35	57	22	67
Nov	310	64	29	50	25	21	9	54	33	47	na	55	25	64	33	56	34	54
Nov	311	60	36	47	34	51	12	44	31	35	14	56	26	57	28	48	28	52
Nov	312	50	34	35	30	43	30	53	24	28	16	55	34	48	24	49	18	43
Nov	313	51	27	43	21	59	23	48	29	43	18	46	34	35	21	56	34	29
Nov	314	47	25	38	27	64	28	44	31	64	33	42	23	47	10	48	32	45
Nov	315	42	30	38	18	61	29	47	22	61	30	36	27	43	22	38	21	51
Nov	316	42	19	40	28	63	31	41	22	64	37	42	17	34	14	21	12	57
Nov	317	32	9	36	27	54	37	30	18	62	38	39	21	59	20	21	0	54
Nov	318	40	9	32	23	49	33	35	18	48	31	25	9	68	29	32	6	49
Nov	319	53	33	46	18	45	26	45	18	46	23	39	18	63	29	36	10	37
Nov	320	40	29	50	26	39	27	40	28	53	23	44	25	55	32	45	11	35
Nov	321	32	20	43	33	29	21	34	23	51	29	49	24	50	28	43	26	34
Nov	322	26	9	35	26	27	22	28	19	48	22	54	23	33	22	59	38	35
Nov	323	41	11	33	21	44	14	30	23	44	15	40	29	32	21	48	33	25
Nov	324	51	35	38	21	47	37	40	18	26	9	49	25	23	10	44	26	16
Nov	325	53	36	39	14	49	24	35	16	36	14	59	35	28	2	32	22	22
Nov	326	45	24	14	-5	45	29	38	11	37	14	56	34	37	9	26	18	28
Nov	327	49	19	22	-2	38	22	43	16	36	14	35	23	32	18	37	10	35
Nov	328	43	31	51	19	47	19	54	20	37	12	46	19	25	7	47	11	37
Nov	329	47	17	43	23	43	27	39	18	36	15	56	23	23	12	57	30	32
Nov	330	29	22	36	17	35	23	32	26	34	16	50	23	26	0	42	28	48
Nov	331	45	12	29	21	36	21	37	24	33	16	35	25	22	15	28	-2	34
Nov	332	45	24	50	15	31	23	30	21	50	18	30	11	25	2	2	-10	38
Nov	333	52	20	52	28	29	20	27	8	60	36	16	8	12	0	15	-14	43
Nov	334	57	26	61	32	31	19	35	6	54	na	28	3	12	-6	15	2	38
Dec	335	61	25	44	27	34	6	44	26	62	34	46	3	43	7	31	9	29
Dec	336	51	21	46	19	40	9	52	28	58	32	46	15	50	34	39	14	35
Dec	337	48	19	38	26	36	15	46	3	41	19	50	20	58	34	48	26	42
Dec	338	52	24	43	28	32	13	5	-4	31	19	53	24	60	37	39	17	35
Dec	339	32	27	28	9	33	14	-1	-9	27	9	46	29	51	19	27	12	16
Dec	340	29	20	46	19	44	20	-2	-19	33	6	40	23	49	17	22	13	22
Dec	341	24	8	52	28	25	2	2	-17	49	16	30	20	47	25	24	-3	39
Dec	342	24	8	46	32	18	-5	-5	-16	37	28	41	12	44	22	26	17	26
Dec	343	22	6	36	26	43	4	-6	-22	29	17	51	26	58	32	48	20	-3
Dec	344	27	8	32	9	34	11	4	-16	51	14	41	19	48	27	45	23	42
Dec	345	33	13	38	9	22	-1	11	-11	50	17	42	19	27	18	34	8	47
Dec	346	47	11	32	20	27	3	20	-7	45	26	33	25	48	13	45	19	41
Dec	347	44	30	38	9	36	8	14	-5	35	17	30	9	43	11	40	19	43
Dec	348	53	23	42	13	33	5	20	-4	32	19	29	18	13	3	51	22	50
Dec	349	45	27	37	15	30	16	25	1	32	23	25	5	31	2	45	23	53
Dec	350	40	18	45	15	26	0	29	2	42	22	30	23	22	3	39	24	45

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1969	1969	1970	1970	1971	1971	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	45	24	38	22	44	25	40	5	43	29	43	19	14	-2	50	27	31
Dec	352	38	23	22	1	48	21	50	21	36	11	34	22	41	4	54	30	28
Dec	353	33	26	24	-3	36	17	45	28	21	-2	30	20	43	26	45	24	23
Dec	354	38	24	29	1	35	19	44	25	38	-2	33	10	44	26	27	15	21
Dec	355	41	24	33	7	42	14	42	32	48	7	42	19	48	21	33	5	42
Dec	356	35	22	26	4	53	23	50	23	42	25	42	19	38	17	38	14	39
Dec	357	34	19	28	4	47	26	51	35	34	30	19	4	43	17	32	25	41
Dec	358	32	17	25	1	50	24	41	23	30	16	13	-3	37	18	42	13	23
Dec	359	32	18	33	3	42	5	42	22	30	10	39	1	39	22	29	23	25
Dec	360	30	6	35	15	6	-5	38	27	29	19	33	15	41	18	33	15	22
Dec	361	24	14	31	9	26	-2	53	22	26	7	43	9	34	26	48	29	26
Dec	362	15	7	36	9	38	13	49	25	20	13	37	22	31	20	43	24	38
Dec	363	22	-2	41	23	34	15	53	26	15	4	29	15	40	13	29	15	36
Dec	364	24	16	34	19	28	16	37	10	10	1	38	6	44	25	26	15	20
Dec	365	25	6	45	25	38	15	15	5	9	-18	28	19	36	14	18	-11	8
29-Feb	366							24	14							13	5	

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	-2	14	-2	0	-19	43	24	40	19	39	0	39	13	na	na	16	-12
Jan	2	1	32	6	15	-1	33	21	49	22	27	4	36	9	na	na	31	12
Jan	3	2	33	6	12	-7	39	11	48	19	27	7	44	17	na	na	47	22
Jan	4	2	41	8	3	-10	33	15	52	22	34	8	36	14	na	na	52	21
Jan	5	-8	44	15	18	-21	46	11	41	31	34	0	48	23	na	na	49	23
Jan	6	4	46	26	18	1	45	-8	35	22	10	-7	37	31	na	na	36	31
Jan	7	3	33	-1	9	0	13	-4	40	20	27	-5	42	28	na	na	33	20
Jan	8	-10	9	-16	29	3	4	-14	43	19	33	14	48	25	na	na	25	12
Jan	9	-15	7	-1	21	0	43	-16	33	19	22	-8	28	22	na	na	21	17
Jan	10	-10	16	-5	10	-3	47	13	39	na	2	-20	36	7	na	na	14	2
Jan	11	6	27	2	33	8	29	10	40	16	13	-10	39	16	na	na	17	-10
Jan	12	-2	35	15	13	-6	50	19	52	18	17	-13	54	28	na	na	47	0
Jan	13	18	29	13	4	-17	49	33	45	26	27	10	53	26	na	na	39	19
Jan	14	3	34	8	16	-16	50	35	42	21	38	28	29	20	na	na	35	13
Jan	15	-5	27	-9	17	2	47	26	30	15	33	-15	49	14	na	na	34	25
Jan	16	-12	24	-4	34	5	40	23	28	2	16	-15	39	13	na	na	26	21
Jan	17	-2	41	8	36	5	42	20	47	8	40	4	44	13	na	na	46	20
Jan	18	-7	18	-2	44	11	28	16	48	20	42	19	41	22	na	na	37	27
Jan	19	25	31	-3	34	15	20	6	45	20	23	5	41	18	na	na	27	-13
Jan	20	14	28	6	29	20	34	9	44	15	11	1	42	17	na	na	12	-14
Jan	21	12	35	8	20	7	33	15	55	19	20	-6	40	17	na	na	18	-1
Jan	22	26	43	13	43	7	36	19	60	26	2	-11	36	16	na	na	35	-2
Jan	23	14	32	24	38	-6	46	32	65	30	14	-12	40	16	na	na	38	6
Jan	24	16	27	6	40	9	46	29	54	31	48	10	33	17	na	na	40	27
Jan	25	18	24	-7	26	13	45	1	45	26	38	24	30	15	na	na	46	20
Jan	26	22	14	-5	19	0	5	-8	30	18	57	20	37	12	na	na	37	-24
Jan	27	2	27	-1	19	-6	-2	-18	36	11	51	29	54	24	na	na	31	8
Jan	28	-13	20	2	17	-8	0	-21	32	11	38	14	42	22	na	na	31	10
Jan	29	0	26	2	12	-2	4	-17	30	18	35	13	36	23	na	na	18	-2
Jan	30	-6	22	3	12	-11	13	-11	47	16	34	18	33	14	na	na	13	-14
Jan	31	6	18	1	20	-10	30	-4	32	11	40	18	33	12	na	na	2	-14
Feb	32	16	10	-5	11	-4	42	8	13	2	34	13	33	12	na	na	4	-19
Feb	33	17	37	-3	17	-12	43	27	24	-1	24	-4	13	8	na	na	7	-16
Feb	34	20	47	16	24	-5	48	21	25	14	-5	-12	28	5	na	na	5	-17
Feb	35	23	47	21	23	7	42	33	33	-2	-2	-20	41	7	na	na	6	-18
Feb	36	15	37	14	40	5	35	25	30	15	10	-20	27	10	na	na	18	-12
Feb	37	17	43	27	35	20	39	15	31	8	27	0	38	-3	na	na	14	-7
Feb	38	14	31	16	40	9	30	15	25	0	23	8	40	13	na	na	27	-9
Feb	39	19	24	6	33	2	29	-1	22	-6	10	-5	40	16	na	na	44	9
Feb	40	18	31	15	44	3	49	12	15	-6	11	-13	45	19	na	na	20	-1
Feb	41	19	29	13	48	24	30	18	-2	-20	27	-6	42	26	na	na	29	1
Feb	42	25	14	9	45	18	27	5	26	-8	35	4	43	18	na	na	35	7
Feb	43	25	11	6	52	19	39	6	45	10	40	7	59	23	na	na	45	17
Feb	44	29	15	3	54	25	25	7	50	23	50	23	55	31	na	na	35	18
Feb	45	25	14	2	45	11	15	4	58	31	57	32	44	32	na	na	26	11
Feb	46	15	20	-5	11	-13	9	-2	52	33	56	33	46	26	na	na	51	23
Feb	47	27	15	2	14	-15	24	-9	57	26	54	27	42	22	na	na	42	23
Feb	48	34	26	-6	36	0	46	13	49	32	49	28	46	28	na	na	38	10
Feb	49	27	31	8	45	13	55	24	50	27	49	24	56	31	na	na	40	14
Feb	50	18	31	22	45	24	54	27	58	28	56	26	47	30	na	na	56	19

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704		1943-1999															
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	19	24	8	35	25	56	27	57	34	58	36	36	18	na	na	47	32
Feb	52	25	47	10	43	10	46	28	39	na	66	32	49	25	na	na	41	28
Feb	53	30	41	31	35	7	35	22	46	29	57	25	49	26	na	na	37	20
Feb	54	28	49	19	17	3	37	18	52	27	32	22	49	30	na	na	38	26
Feb	55	26	44	20	36	3	38	12	51	27	25	9	48	22	na	na	44	21
Feb	56	20	22	6	47	13	46	13	47	25	34	3	46	26	na	na	37	21
Feb	57	8	35	3	49	22	50	28	62	33	50	14	59	36	na	na	37	5
Feb	58	16	30	12	34	24	61	34	43	27	49	19	52	28	na	na	42	13
Feb	59	18	18	3	44	17	54	19	45	21	47	24	51	27	na	na	49	19
Mar	60	4	32	2	34	16	22	2	43	19	53	24	56	26	na	na	40	30
Mar	61	13	9	-1	22	14	38	-1	52	18	43	14	56	34	na	na	33	10
Mar	62	13	9	-14	30	15	54	19	47	27	33	11	60	32	na	na	10	2
Mar	63	17	42	-6	41	6	34	21	49	19	20	10	57	30	na	na	19	4
Mar	64	10	38	22	50	19	21	2	54	22	32	-3	35	27	na	na	38	-4
Mar	65	9	34	22	44	31	17	-3	43	27	26	18	30	18	na	na	49	28
Mar	66	23	42	16	54	32	31	8	43	20	37	10	37	23	na	na	38	18
Mar	67	28	56	19	44	29	42	10	47	21	31	10	33	21	na	na	42	13
Mar	68	28	49	28	29	15	40	12	45	18	53	17	48	15	na	na	48	15
Mar	69	29	39	31	44	12	37	25	45	23	46	30	59	28	na	na	56	23
Mar	70	24	44	14	56	28	40	15	55	21	58	22	67	29	na	na	38	25
Mar	71	20	44	21	60	26	53	23	51	21	45	22	59	37	na	na	39	11
Mar	72	15	35	23	40	26	35	24	54	20	51	28	52	29	na	na	44	12
Mar	73	18	33	17	44	21	44	11	56	29	60	27	45	33	na	na	49	19
Mar	74	17	30	14	60	25	55	20	51	26	55	35	43	30	na	na	50	27
Mar	75	17	35	18	61	30	59	35	61	26	47	31	36	26	na	na	53	20
Mar	76	22	57	25	55	35	36	13	46	33	45	30	28	20	na	na	58	25
Mar	77	22	58	35	37	25	43	13	39	21	48	23	24	19	na	na	54	26
Mar	78	13	60	27	27	22	54	26	42	26	33	20	22	15	na	na	51	26
Mar	79	11	49	34	40	16	44	26	50	29	22	12	22	5	na	na	57	26
Mar	80	10	57	27	37	29	40	25	43	26	36	1	33	4	na	na	57	27
Mar	81	23	44	31	35	29	51	21	53	21	41	9	40	14	na	na	46	26
Mar	82	26	35	28	35	26	43	27	50	25	40	20	44	17	na	na	34	24
Mar	83	33	44	27	51	16	46	20	51	24	37	22	45	22	na	na	62	19
Mar	84	30	47	32	41	21	44	23	53	24	34	7	36	25	na	na	62	31
Mar	85	26	57	28	31	5	40	22	54	34	44	15	27	23	na	na	59	31
Mar	86	25	62	33	59	22	33	25	55	39	57	26	38	12	na	na	52	22
Mar	87	25	59	31	53	24	48	15	44	27	61	28	38	15	na	na	45	24
Mar	88	20	71	33	55	30	43	25	55	23	65	39	45	19	na	na	27	13
Mar	89	16	74	35	43	28	45	14	52	28	53	28	56	25	na	na	40	10
Mar	90	7	59	40	39	30	50	22	44	24	54	21	47	33	na	na	35	24
Apr	91	11	55	30	32	21	38	24	64	26	64	30	38	24	na	na	52	27
Apr	92	11	57	38	31	20	36	27	57	38	54	18	41	11	na	na	61	35
Apr	93	11	53	36	37	11	36	27	47	29	30	9	36	21	na	na	58	20
Apr	94	20	62	26	42	19	37	27	43	29	34	17	29	21	na	na	43	20
Apr	95	28	62	37	29	14	49	19	53	22	29	15	30	19	na	na	40	26
Apr	96	33	58	27	61	16	61	24	50	36	42	16	34	15	na	na	34	26
Apr	97	28	54	32	57	36	56	24	44	23	35	20	40	8	na	na	33	24
Apr	98	30	56	34	54	25	44	25	50	21	32	17	47	14	na	na	51	12
Apr	99	38	51	33	64	28	45	31	68	23	31	12	49	21	na	na	65	28
Apr	100	37	42	27	59	39	55	21	56	30	51	11	55	25	na	na	72	31

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	33	66	25	39	28	48	30	58	37	66	28	43	32	na	na	77	34
Apr	102	32	42	30	28	24	37	27	72	38	60	38	32	21	na	na	68	34
Apr	103	28	46	22	45	23	41	24	61	31	63	31	24	17	na	na	62	33
Apr	104	32	53	34	53	30	47	22	58	20	71	32	38	4	na	na	74	35
Apr	105	35	50	39	64	30	62	23	72	34	61	29	40	22	na	na	72	36
Apr	106	38	61	35	68	33	63	31	75	45	42	29	49	21	na	na	72	36
Apr	107	27	45	35	79	51	54	34	65	39	56	20	54	31	na	na	77	46
Apr	108	32	35	30	78	49	67	28	69	39	57	25	62	29	na	na	77	46
Apr	109	32	37	28	66	36	76	35	64	33	32	23	61	32	na	na	68	46
Apr	110	27	43	13	55	29	78	35	64	41	37	24	65	31	na	na	53	20
Apr	111	27	55	33	57	30	82	40	60	38	48	20	56	33	na	na	56	22
Apr	112	36	40	33	59	33	84	46	52	38	64	25	50	40	na	na	54	28
Apr	113	35	46	29	57	41	91	41	67	38	73	34	60	37	na	na	59	28
Apr	114	21	49	33	52	35	57	36	78	38	70	33	71	40	na	na	56	28
Apr	115	29	63	29	48	30	64	31	72	42	61	32	65	30	na	na	49	23
Apr	116	34	69	38	43	34	55	29	77	39	45	31	51	33	na	na	45	25
Apr	117	41	63	46	51	29	54	32	73	43	60	28	49	27	na	na	70	23
Apr	118	35	55	43	45	30	62	39	65	37	59	34	46	30	na	na	76	22
Apr	119	45	50	41	52	20	69	32	64	46	56	35	42	32	na	na	74	39
Apr	120	39	49	42	58	26	73	39	62	43	64	29	45	26	na	na	72	38
May	121	39	52	40	58	34	71	41	78	34	74	39	38	32	na	na	73	37
May	122	44	62	31	56	29	64	56	77	54	77	39	52	31	na	na	78	44
May	123	54	56	31	67	31	66	41	54	44	78	47	59	31	na	na	83	53
May	124	44	43	35	67	41	73	43	52	36	69	40	64	31	na	na	78	40
May	125	31	45	33	68	38	68	40	69	33	51	27	74	36	na	na	60	36
May	126	41	43	33	59	33	65	37	60	42	53	27	62	37	na	na	70	30
May	127	39	38	31	49	28	65	38	58	41	57	34	55	35	na	na	76	35
May	128	42	48	30	34	28	62	28	48	36	62	34	74	42	na	na	83	55
May	129	50	55	28	36	26	64	28	49	31	60	38	72	45	na	na	79	48
May	130	50	68	32	49	21	69	45	61	30	52	37	59	36	na	na	78	50
May	131	48	61	34	55	31	49	38	60	36	43	33	50	27	na	na	65	45
May	132	49	47	40	60	34	51	35	50	32	50	35	37	23	na	na	53	20
May	133	51	64	30	61	40	46	36	50	36	47	42	41	30	na	na	49	30
May	134	46	83	46	74	37	52	29	63	29	47	43	52	24	na	na	59	28
May	135	36	88	48	84	50	59	31	69	47	48	43	54	28	na	na	65	31
May	136	33	77	57	58	48	60	35	64	48	50	42	52	28	na	na	61	35
May	137	41	61	49	60	38	59	46	49	42	58	45	54	38	na	na	63	40
May	138	44	56	44	63	42	56	34	52	40	68	36	62	30	na	na	69	29
May	139	36	50	45	60	40	69	35	67	40	68	48	55	40	na	na	69	40
May	140	32	64	32	74	36	67	33	75	42	59	43	57	30	na	na	71	38
May	141	43	74	51	69	39	75	42	69	47	54	38	66	30	na	na	76	46
May	142	32	74	46	63	34	83	46	56	42	68	35	58	35	na	na	76	46
May	143	41	78	43	79	41	87	51	54	41	69	49	73	37	na	na	76	40
May	144	57	80	54	74	48	84	52	62	39	60	40	67	41	na	na	82	46
May	145	61	71	49	74	42	80	53	66	39	62	35	75	40	na	na	78	46
May	146	49	64	47	81	46	68	43	68	44	67	39	81	46	na	na	74	45
May	147	47	58	48	74	53	68	40	67	51	75	41	80	45	na	na	65	44
May	148	39	62	45	59	42	81	40	72	45	67	42	74	45	na	na	75	44
May	149	41	77	39	56	35	74	40	69	47	63	36	64	36	na	na	75	42
May	150	44	65	41	54	33	68	45	72	37	53	39	58	33	na	na	70	44

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	34	55	35	na	na	58	46	75	50	55	35	55	32	na	na	66	42
June	152	43	49	34	62	23	52	45	65	41	62	32	66	37	na	na	65	40
June	153	56	62	30	70	32	57	40	61	39	50	43	68	40	na	na	48	29
June	154	46	62	38	76	43	68	39	77	40	60	42	70	39	na	na	53	29
June	155	52	68	39	76	43	81	44	73	46	77	39	64	39	na	na	60	29
June	156	49	67	42	79	44	82	54	71	45	70	49	56	38	na	na	71	48
June	157	46	78	43	76	49	70	49	87	51	65	44	66	34	na	na	77	48
June	158	54	72	43	51	38	64	48	77	48	66	36	72	40	na	na	92	51
June	159	56	72	42	49	36	59	45	72	50	62	43	70	42	na	na	91	59
June	160	57	84	49	61	38	61	42	65	50	65	34	78	45	na	na	73	48
June	161	54	78	49	75	35	73	43	67	40	68	38	81	46	na	na	68	45
June	162	50	61	46	80	43	82	50	73	46	68	37	86	50	na	na	55	39
June	163	43	68	37	87	49	87	59	80	50	71	37	84	50	na	na	65	30
June	164	48	81	51	95	56	81	52	75	52	75	46	64	47	na	na	78	44
June	165	53	82	56	92	56	77	54	59	44	63	42	69	41	na	na	77	43
June	166	55	78	56	73	44	74	54	54	40	67	49	73	37	na	na	81	43
June	167	49	66	44	69	50	67	52	75	34	74	46	63	48	na	na	75	43
June	168	46	58	47	60	48	66	44	74	49	60	47	64	48	na	na	65	42
June	169	40	78	39	74	51	75	42	64	39	57	46	85	43	na	na	65	42
June	170	41	74	54	63	49	80	47	68	46	69	39	72	50	na	na	80	35
June	171	48	67	39	69	48	71	50	69	50	72	43	76	52	na	na	89	50
June	172	51	76	44	76	48	76	47	66	45	77	45	91	56	na	na	89	44
June	173	48	77	52	70	53	74	52	73	49	79	45	84	46	na	na	82	34
June	174	48	83	47	70	50	81	55	84	57	77	47	94	59	na	na	87	33
June	175	50	81	59	75	55	91	61	73	48	65	51	92	71	na	na	85	58
June	176	56	74	53	86	48	84	47	77	47	67	49	87	64	na	na	71	43
June	177	56	67	48	74	50	82	58	89	60	69	49	72	57	na	na	53	42
June	178	57	81	44	79	49	89	60	87	55	79	48	70	49	na	na	61	40
June	179	51	81	52	78	48	83	53	79	53	79	54	63	49	na	na	67	34
June	180	51	85	59	79	48	73	42	75	40	77	48	72	42	na	na	78	39
June	181	47	79	59	90	58	84	49	87	59	80	48	83	47	na	na	81	40
July	182	41	78	55	89	59	88	59	91	69	80	57	86	46	na	na	81	50
July	183	59	82	56	85	66	70	52	81	59	79	54	86	58	na	na	87	51
July	184	51	83	56	84	53	80	60	81	47	79	54	69	45	na	na	89	53
July	185	65	87	60	79	57	86	54	84	53	84	50	61	49	na	na	87	49
July	186	55	83	49	76	54	86	54	92	53	78	53	87	44	na	na	87	48
July	187	58	74	53	79	52	90	57	99	67	68	53	94	56	na	na	93	61
July	188	57	69	49	81	53	93	60	101	64	78	43	93	69	na	na	99	58
July	189	45	72	54	88	51	92	56	88	51	78	52	94	66	na	na	94	58
July	190	54	69	50	82	57	88	62	89	51	71	45	98	63	na	na	90	54
July	191	53	76	46	93	52	85	56	92	66	71	52	96	68	na	na	91	59
July	192	47	90	59	85	58	97	55	90	57	78	46	79	45	na	na	95	62
July	193	45	77	52	85	56	93	63	82	62	83	49	93	52	na	na	91	58
July	194	70	85	46	76	61	89	59	84	57	80	48	94	59	na	na	88	57
July	195	48	83	52	75	50	84	65	79	60	81	56	100	57	na	na	82	57
July	196	56	87	52	72	43	82	52	77	56	87	53	94	54	na	na	87	45
July	197	57	91	62	66	51	75	54	77	53	91	65	86	54	na	na	86	54
July	198	54	76	55	75	46	83	46	76	55	71	43	79	54	na	na	83	56
July	199	65	78	51	74	53	84	55	79	52	84	47	90	59	na	na	79	55
July	200	65	76	48	79	48	76	47	79	54	85	49	96	68	na	na	76	55

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	58	65	55	83	52	83	62	84	50	91	55	97	60	na	na	86	50
July	202	48	62	50	85	54	77	57	84	59	88	56	82	62	na	na	85	50
July	203	55	67	45	88	54	76	47	81	53	95	56	82	58	na	na	89	60
July	204	59	80	44	80	58	86	52	84	46	91	66	75	57	na	na	83	61
July	205	65	91	58	80	59	92	60	75	54	78	59	81	55	na	na	76	58
July	206	58	82	55	69	55	88	62	70	51	78	59	91	55	na	na	82	45
July	207	52	81	51	67	53	72	52	65	50	72	55	90	65	na	na	95	54
July	208	51	90	50	74	52	82	47	59	51	75	57	89	59	na	na	93	59
July	209	52	81	61	78	56	87	52	75	45	75	54	87	59	na	na	80	52
July	210	50	74	55	76	54	88	53	85	53	75	49	88	57	na	na	76	53
July	211	56	72	52	73	49	98	57	90	64	82	49	82	59	na	na	60	53
July	212	46	72	52	76	49	89	62	81	54	89	55	88	56	na	na	69	52
Aug	213	47	72	51	87	52	85	62	85	57	90	55	92	59	na	na	87	49
Aug	214	49	67	48	85	48	86	54	86	60	85	55	89	61	75	59	91	53
Aug	215	48	62	36	86	62	85	52	79	41	85	56	90	59	82	59	91	49
Aug	216	51	73	40	84	52	88	54	76	58	80	56	90	59	79	55	81	47
Aug	217	50	80	45	98	61	70	47	78	53	86	54	85	58	84	55	84	49
Aug	218	51	86	44	93	64	84	41	73	50	85	55	91	57	84	56	80	52
Aug	219	51	83	53	85	62	91	57	75	46	83	57	95	62	83	59	80	52
Aug	220	52	79	49	75	57	84	53	76	49	76	52	91	56	81	57	94	60
Aug	221	48	79	50	71	59	77	53	70	47	70	50	94	64	79	51	78	48
Aug	222	45	86	56	71	45	79	57	73	41	69	49	88	61	79	47	83	38
Aug	223	36	89	53	82	49	73	53	79	46	86	50	94	64	85	52	83	49
Aug	224	41	95	56	74	58	78	43	83	48	82	66	89	68	94	57	69	52
Aug	225	45	90	69	66	53	79	59	79	48	81	51	79	48	90	56	66	45
Aug	226	44	71	53	61	49	68	53	80	50	84	58	90	61	90	61	65	38
Aug	227	54	69	49	74	46	73	51	85	50	81	51	89	55	79	58	76	49
Aug	228	43	83	45	79	52	66	61	71	52	85	59	84	61	81	52	78	49
Aug	229	39	76	45	75	52	65	53	77	48	89	58	81	61	86	64	67	44
Aug	230	53	60	37	73	52	78	47	81	50	82	62	90	63	75	57	73	39
Aug	231	45	76	37	65	55	87	48	87	51	76	55	86	60	79	54	74	47
Aug	232	47	84	42	66	54	84	49	92	61	80	58	82	59	84	54	81	48
Aug	233	45	81	53	68	47	71	49	84	54	85	59	82	54	72	52	86	57
Aug	234	49	78	58	68	49	74	43	77	55	79	54	77	56	75	48	83	56
Aug	235	48	77	55	71	45	76	43	78	48	73	48	79	55	77	42	70	43
Aug	236	51	85	60	72	48	82	na	76	47	70	47	87	59	86	53	74	41
Aug	237	62	84	60	68	47	81	53	76	48	81	47	89	59	83	63	86	44
Aug	238	49	79	51	65	44	74	53	72	49	72	48	85	58	88	51	85	56
Aug	239	50	67	54	78	44	60	46	73	46	77	49	86	54	85	51	79	56
Aug	240	37	65	45	69	49	81	46	80	48	85	52	96	56	89	50	84	56
Aug	241	45	71	42	81	46	77	48	88	52	75	56	90	59	89	55	82	56
Aug	242	42	74	43	90	54	75	56	90	51	75	55	87	55	80	47	96	56
Aug	243	44	85	49	81	63	69	47	75	46	78	52	89	56	82	41	91	57
Sept	244	45	81	53	76	50	63	46	80	37	77	43	na	na	78	47	77	52
Sept	245	40	83	49	84	46	65	40	76	51	75	46	na	na	68	46	76	60
Sept	246	53	89	57	86	51	81	38	68	47	82	44	na	na	72	40	79	49
Sept	247	49	91	58	76	54	70	44	84	54	85	53	na	na	78	40	72	48
Sept	248	58	94	57	76	46	76	35	81	59	73	50	na	na	75	39	83	55
Sept	249	50	97	68	76	44	84	42	61	50	76	46	na	na	86	51	85	45
Sept	250	54	91	56	88	55	89	42	72	43	80	53	na	na	82	57	80	45

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	48	83	60	92	53	90	57	78	42	83	50	na	na	63	42	59	50
Sept	252	36	83	48	89	56	83	53	85	45	86	50	na	na	65	49	69	26
Sept	253	39	89	61	77	51	67	34	85	46	88	50	na	na	70	42	70	49
Sept	254	42	64	51	62	37	74	44	76	45	64	46	na	na	67	42	74	54
Sept	255	48	58	43	58	40	80	56	87	51	60	45	na	na	73	45	72	52
Sept	256	38	56	41	54	35	68	52	80	45	55	44	na	na	70	51	71	41
Sept	257	44	66	36	65	29	60	44	74	52	47	36	na	na	65	44	83	45
Sept	258	49	77	38	79	36	74	48	66	43	54	30	na	na	59	37	84	56
Sept	259	44	70	45	85	43	72	46	61	33	54	37	na	na	63	37	81	44
Sept	260	43	59	42	74	44	54	35	69	34	59	40	na	na	76	40	77	39
Sept	261	48	65	43	77	39	73	40	79	39	66	34	na	na	84	45	81	43
Sept	262	36	55	35	81	48	68	40	80	42	60	33	na	na	87	46	69	38
Sept	263	51	51	29	72	42	69	52	72	52	60	30	na	na	84	51	60	30
Sept	264	47	60	28	73	39	71	43	70	39	75	35	na	na	74	45	63	31
Sept	265	32	72	40	72	46	65	39	66	42	69	48	na	na	73	48	58	35
Sept	266	42	74	40	76	46	60	32	65	45	65	40	na	na	57	34	39	30
Sept	267	35	76	39	73	42	59	35	65	43	63	40	na	na	49	28	40	22
Sept	268	37	81	50	78	46	55	34	78	47	72	50	na	na	27	23	37	30
Sept	269	36	76	44	80	51	55	32	58	38	72	41	na	na	47	19	62	25
Sept	270	38	79	38	73	46	67	34	64	30	69	46	na	na	50	28	53	29
Sept	271	41	72	51	76	39	73	38	82	48	58	41	na	na	40	27	34	22
Sept	272	42	61	44	69	40	83	42	67	43	41	33	na	na	39	26	32	20
Sept	273	42	71	33	77	43	70	45	58	42	37	33	na	na	53	19	36	17
Oct	274	34	64	32	64	35	84	41	65	30	43	33	na	na	60	23	58	19
Oct	275	33	57	40	62	40	76	46	80	43	58	32	na	na	70	35	57	35
Oct	276	36	60	39	52	38	57	34	71	52	67	34	na	na	73	33	50	36
Oct	277	37	54	42	69	29	70	35	56	34	57	35	na	na	74	35	42	34
Oct	278	27	48	36	65	48	76	37	46	36	49	34	na	na	68	44	54	24
Oct	279	35	55	23	69	38	71	41	61	27	49	31	na	na	63	48	57	30
Oct	280	37	68	29	73	40	76	36	73	39	62	27	na	na	61	34	55	35
Oct	281	35	71	38	57	35	76	40	68	42	52	33	na	na	61	33	40	23
Oct	282	31	63	33	45	31	79	42	57	30	33	29	na	na	61	33	25	17
Oct	283	27	75	34	71	32	67	41	66	31	33	28	na	na	60	38	55	20
Oct	284	20	66	41	65	53	55	34	72	39	38	26	na	na	66	40	55	29
Oct	285	24	49	35	55	40	63	23	62	40	47	30	na	na	78	43	51	35
Oct	286	36	47	26	59	29	70	37	46	32	50	28	na	na	74	43	48	30
Oct	287	38	58	24	72	37	61	43	43	35	61	31	na	na	75	38	48	25
Oct	288	26	59	39	69	40	59	31	54	27	56	31	na	na	56	34	58	32
Oct	289	34	66	31	61	41	52	32	55	38	64	36	na	na	41	27	67	32
Oct	290	31	56	36	59	34	34	28	49	37	62	33	na	na	38	27	58	41
Oct	291	31	49	33	54	36	35	27	51	27	42	31	na	na	44	18	59	30
Oct	292	35	68	31	64	40	42	17	66	35	30	25	na	na	41	26	67	30
Oct	293	35	69	37	61	41	56	35	55	29	48	19	na	na	34	19	70	36
Oct	294	39	63	37	44	30	60	31	33	21	55	23	na	na	33	19	69	32
Oct	295	39	59	31	48	24	59	34	25	17	58	28	na	na	31	23	62	38
Oct	296	33	63	23	58	29	49	33	45	7	65	31	na	na	37	15	53	31
Oct	297	34	74	42	57	33	34	23	38	30	61	35	na	na	46	18	57	28
Oct	298	35	50	32	71	36	43	17	45	27	62	35	na	na	47	25	68	34
Oct	299	34	62	26	61	46	44	21	63	32	62	39	na	na	54	23	52	36
Oct	300	31	52	26	56	43	41	22	62	32	48	33	na	na	60	37	64	34

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		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	41	56	30	50	43	34	24	66	35	43	32	na	na	54	23	73	44
Oct	302	41	68	30	43	29	41	15	65	35	46	29	na	na	30	16	55	29
Oct	303	41	50	29	38	28	57	23	47	37	51	27	na	na	49	24	62	35
Oct	304	30	52	25	34	25	57	30	52	25	51	33	na	na	48	16	53	38
Nov	305	27	67	31	34	20	60	33	62	29	42	28	na	na	48	15	47	22
Nov	306	29	66	29	42	24	67	32	60	30	30	24	na	na	35	9	48	23
Nov	307	25	59	29	46	18	60	35	64	30	28	17	na	na	62	21	54	30
Nov	308	35	65	33	40	21	51	35	61	31	30	8	na	na	59	36	66	30
Nov	309	35	51	25	34	24	55	26	48	27	48	18	na	na	45	32	56	43
Nov	310	40	49	20	41	19	66	37	57	27	56	26	na	na	46	25	37	21
Nov	311	28	62	27	43	22	67	38	60	30	42	31	na	na	62	21	37	26
Nov	312	21	68	32	43	19	64	37	50	31	41	30	na	na	53	34	25	25
Nov	313	13	49	26	31	16	62	41	59	26	32	23	na	na	48	25	15	7
Nov	314	11	26	11	32	19	50	30	59	27	44	27	na	na	49	19	15	6
Nov	315	25	17	11	33	22	57	37	60	26	34	21	na	na	41	12	20	10
Nov	316	29	34	13	38	19	47	30	62	28	30	7	na	na	50	20	22	10
Nov	317	26	24	10	41	20	40	30	63	35	30	15	na	na	56	25	20	10
Nov	318	33	26	10	52	19	31	23	64	31	35	6	na	na	63	20	37	16
Nov	319	30	35	6	59	27	30	19	56	29	41	18	na	na	54	35	41	10
Nov	320	29	41	7	61	25	30	19	56	30	45	17	na	na	35	24	50	11
Nov	321	23	42	16	58	27	28	10	63	34	43	17	na	na	46	16	34	26
Nov	322	24	32	5	50	32	40	9	44	27	52	32	na	na	45	23	13	13
Nov	323	16	7	-2	41	21	42	16	29	19	51	32	na	na	53	19	10	0
Nov	324	-16	8	-3	29	23	46	18	38	14	38	20	na	na	44	19	15	-5
Nov	325	-12	25	1	26	14	41	25	45	21	26	15	na	na	50	19	12	-1
Nov	326	7	45	na	35	7	55	26	53	28	20	10	na	na	52	26	5	-8
Nov	327	7	38	na	39	11	45	28	41	29	24	5	na	na	47	22	16	-19
Nov	328	0	41	na	33	24	36	16	39	26	42	12	na	na	60	24	24	-2
Nov	329	19	36	16	29	16	35	7	37	24	34	15	na	na	63	33	14	0
Nov	330	22	28	22	29	9	40	12	31	17	43	13	na	na	49	28	3	-9
Nov	331	5	26	14	21	7	37	25	34	11	57	21	na	na	27	17	20	-15
Nov	332	18	36	11	13	6	38	12	29	18	49	12	na	na	28	9	14	-8
Nov	333	22	33	23	29	4	42	28	40	13	49	22	na	na	43	8	2	2
Nov	334	28	37	15	37	8	51	19	29	14	48	26	na	na	37	22	-4	-8
Dec	335	19	25	9	39	11	49	25	34	11	45	28	na	na	36	22	-2	-13
Dec	336	15	16	5	49	15	25	3	42	19	29	26	na	na	21	15	27	-19
Dec	337	26	27	-1	51	27	36	-4	43	25	46	17	na	na	19	4	49	10
Dec	338	14	33	12	58	32	51	29	45	11	49	26	na	na	24	-2	38	28
Dec	339	-2	19	13	48	27	56	37	54	21	42	29	na	na	34	-2	52	18
Dec	340	-8	15	-2	42	27	49	9	55	34	28	16	na	na	19	8	48	23
Dec	341	7	7	-6	33	23	23	9	50	29	20	-1	na	na	57	4	40	16
Dec	342	-16	11	2	48	15	20	12	45	23	24	0	na	na	56	24	31	15
Dec	343	-22	26	4	54	22	35	9	54	26	40	4	na	na	46	22	21	13
Dec	344	-3	28	20	53	22	33	18	58	30	24	11	na	na	48	22	16	4
Dec	345	14	45	11	22	1	44	19	35	26	25	3	na	na	51	23	23	-10
Dec	346	26	33	11	34	4	53	43	38	16	50	10	na	na	45	14	13	-10
Dec	347	25	34	10	33	12	53	31	28	20	43	21	na	na	26	4	24	-13
Dec	348	27	46	18	53	25	50	22	42	6	33	23	na	na	27	7	35	16
Dec	349	29	32	19	44	-3	47	25	31	15	35	10	na	na	39	14	35	18
Dec	350	31	29	16	24	-12	56	32	28	12	49	20	na	na	49	17	35	17

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																	
		sd220704			1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available							
	Day of	1977	1978	1978	1979	1979	1980	1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	27	44	20	53	12	58	43	26	16	49	34	na	na	30	-4	31	14
Dec	352	6	48	31	61	33	59	32	28	3	49	27	na	na	27	-10	35	8
Dec	353	18	42	20	56	23	32	5	38	8	40	18	na	na	13	4	34	22
Dec	354	12	25	17	48	25	8	-5	46	29	44	17	na	na	33	5	39	20
Dec	355	8	38	18	42	22	19	2	34	19	46	24	na	na	42	7	49	28
Dec	356	22	36	11	41	21	42	13	28	19	49	28	na	na	28	14	45	28
Dec	357	19	34	10	36	25	47	28	23	15	45	29	na	na	39	21	35	27
Dec	358	5	37	10	43	17	36	6	30	15	42	13	na	na	27	-5	27	8
Dec	359	-8	33	12	49	27	15	-7	31	15	30	13	na	na	22	-15	44	8
Dec	360	15	22	11	41	27	45	15	25	14	39	9	na	na	41	14	42	15
Dec	361	2	32	4	38	15	45	na	27	8	27	5	na	na	46	7	22	13
Dec	362	7	23	-1	40	14	63	38	24	-2	20	4	na	na	47	26	27	10
Dec	363	11	0	-10	36	15	54	34	20	-2	23	13	na	na	42	2	47	9
Dec	364	5	1	-20	37	13	51	23	28	11	24	8	na	na	33	0	31	22
Dec	365	-2	-11	-22	46	13	49	30	23	6	40	22	na	na	28	-8	40	16
29-Feb	366						46	29							31	-7		

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	42	14	43	9	24	6	28	9	44	16	26	16	45	14	50	8	45
Jan	2	34	20	37	29	33	6	34	11	44	22	16	-3	52	14	49	21	34
Jan	3	36	11	44	17	22	9	47	18	35	20	14	1	45	22	44	14	38
Jan	4	28	5	51	20	13	-5	56	20	36	13	26	-1	46	23	21	-1	42
Jan	5	42	4	42	29	14	-4	47	20	35	24	9	-1	46	22	11	-3	37
Jan	6	35	18	31	25	24	-8	46	25	52	20	9	-10	51	22	32	-6	33
Jan	7	29	21	35	11	25	1	27	-5	49	20	47	-5	29	22	24	-1	25
Jan	8	56	15	37	11	13	-4	18	-2	47	20	35	5	33	9	22	2	31
Jan	9	46	25	22	15	31	-13	27	-1	48	26	39	5	39	11	25	4	40
Jan	10	55	22	44	10	48	14	41	13	52	40	36	12	57	27	29	6	39
Jan	11	51	26	58	25	47	21	25	18	50	20	42	12	46	25	18	6	45
Jan	12	45	25	63	28	34	-3	27	13	45	9	50	17	33	23	10	-1	38
Jan	13	53	21	44	28	26	8	29	15	52	15	44	26	25	16	14	-10	35
Jan	14	52	22	32	18	46	20	29	22	48	26	42	33	27	13	32	-5	31
Jan	15	48	21	22	-2	49	30	29	12	43	24	37	20	29	-13	46	7	43
Jan	16	45	31	23	-4	45	25	42	20	39	26	35	27	43	-4	36	16	26
Jan	17	46	27	26	3	38	10	43	27	31	23	37	28	42	7	40	10	14
Jan	18	42	20	36	14	26	10	51	23	27	9	53	24	36	11	42	12	31
Jan	19	57	30	30	12	25	12	38	24	37	13	29	19	48	22	52	16	36
Jan	20	45	30	27	14	25	2	56	12	44	8	19	12	61	26	48	22	42
Jan	21	30	12	23	18	28	15	54	20	44	13	31	12	53	21	42	24	55
Jan	22	36	7	21	15	35	22	51	20	53	28	29	22	32	25	48	16	42
Jan	23	49	16	32	-3	34	27	38	23	40	21	28	17	32	21	45	18	59
Jan	24	38	26	42	12	26	13	27	14	27	19	22	0	46	27	37	2	43
Jan	25	31	26	40	21	32	10	27	8	38	17	20	-10	47	23	47	15	45
Jan	26	34	15	44	18	35	21	45	10	46	27	27	-5	44	21	46	23	32
Jan	27	53	15	45	23	52	15	56	1	28	4	29	16	49	17	53	26	28
Jan	28	46	35	47	22	63	26	53	15	35	19	21	3	58	23	41	22	28
Jan	29	38	18	42	30	54	29	42	18	61	22	20	1	49	30	42	10	25
Jan	30	34	31	52	13	43	29	61	22	50	19	20	1	51	27	57	16	23
Jan	31	41	25	42	25	39	-2	52	45	33	4	50	13	50	34	55	23	19
Feb	32	52	27	52	24	7	-12	55	-18	20	-5	59	22	67	30	38	23	19
Feb	33	51	27	48	31	27	-6	-16	-29	26	0	58	29	54	28	31	25	25
Feb	34	50	25	42	25	25	-2	-29	-29	45	14	48	24	43	28	36	23	25
Feb	35	37	28	29	23	17	3	-15	-27	52	19	51	26	53	16	53	17	29
Feb	36	32	20	46	17	11	-5	4	-25	40	20	56	25	52	22	55	19	36
Feb	37	24	15	55	20	45	-7	12	-20	49	18	45	30	45	19	58	20	25
Feb	38	22	3	60	28	28	17	17	5	28	24	62	21	36	15	46	21	14
Feb	39	13	-5	50	21	32	19	16	0	27	10	55	23	30	15	48	21	-5
Feb	40	10	1	56	26	23	-5	31	-7	37	14	46	28	40	17	45	21	37
Feb	41	5	-14	55	26	15	-9	37	11	46	19	53	23	36	19	27	12	37
Feb	42	10	-16	54	26	40	-10	36	10	54	23	57	23	26	9	22	6	24
Feb	43	28	-10	55	26	50	28	40	9	46	22	53	26	48	11	37	8	33
Feb	44	16	5	49	26	52	29	23	15	22	4	35	32	51	24	33	18	46
Feb	45	30	-6	40	21	29	17	24	10	11	-1	33	13	42	31	33	12	42
Feb	46	48	12	42	28	48	15	28	3	15	3	49	4	47	24	21	-4	55
Feb	47	54	10	42	17	33	20	19	4	20	-1	51	25	43	30	2	-11	49
Feb	48	48	35	40	18	39	13	11	-6	38	7	38	32	35	20	14	-16	59
Feb	49	39	12	40	19	36	19	20	-3	30	7	39	8	38	25	40	-8	53
Feb	50	46	8	26	16	35	21	29	10	29	5	51	17	51	15	26	9	48

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	32	5	29	13	39	29	28	19	55	13	47	26	37	25	22	8	30
Feb	52	45	14	22	19	53	22	25	22	42	25	47	26	51	26	55	14	18
Feb	53	42	11	40	11	49	16	26	1	41	28	42	19	55	29	36	-5	37
Feb	54	41	28	29	12	23	11	52	10	45	23	31	23	36	31	18	-2	18
Feb	55	56	29	21	13	40	4	55	21	41	24	25	16	42	11	22	-3	16
Feb	56	61	35	22	15	57	21	46	27	49	23	27	8	47	19	19	4	12
Feb	57	53	36	17	11	56	27	42	19	41	23	36	18	51	29	34	2	42
Feb	58	38	33	22	12	66	25	27	15	33	17	39	19	60	38	49	7	48
Feb	59	56	19	29	22	49	29	25	7	46	16	47	18	59	37	55	14	38
Mar	60	61	21	47	10	57	21	16	-5	55	20	12	8	66	30	50	15	50
Mar	61	48	20	48	20	46	29	6	-4	47	19	25	2	63	30	46	21	58
Mar	62	48	34	62	25	33	21	-2	-8	54	21	49	8	62	30	37	28	61
Mar	63	59	29	60	30	46	20	9	-13	51	24	55	12	58	29	49	9	58
Mar	64	46	33	74	32	42	30	36	-7	51	24	49	34	56	33	45	19	49
Mar	65	43	20	72	36	51	20	55	12	29	23	35	16	45	37	50	27	41
Mar	66	48	18	59	31	52	21	58	27	31	21	35	14	47	35	50	32	29
Mar	67	58	31	53	16	50	27	59	26	58	18	34	14	53	39	51	25	37
Mar	68	49	30	28	10	45	25	67	27	50	28	53	18	44	30	40	25	41
Mar	69	47	20	40	17	63	28	72	40	62	37	56	31	36	11	50	19	56
Mar	70	49	20	41	22	49	27	60	33	65	29	57	27	39	11	26	17	51
Mar	71	40	28	55	21	32	17	58	20	46	29	41	25	40	23	22	11	47
Mar	72	41	24	61	30	20	-4	56	27	37	22	39	13	52	33	33	2	59
Mar	73	42	22	50	30	20	-14	51	11	36	24	47	17	52	30	50	3	53
Mar	74	39	21	44	23	21	-4	37	9	34	2	43	22	51	28	53	29	54
Mar	75	43	21	35	28	28	0	42	10	38	29	43	22	64	27	44	9	72
Mar	76	36	25	28	23	26	5	12	6	35	26	47	28	52	28	33	2	48
Mar	77	28	25	37	25	30	5	45	1	35	22	51	26	51	32	56	20	63
Mar	78	31	21	56	27	42	8	49	11	59	14	64	25	37	27	46	32	65
Mar	79	43	19	41	19	55	25	36	2	62	30	52	30	40	26	54	21	52
Mar	80	62	26	25	22	60	24	44	17	49	29	45	32	47	28	38	24	58
Mar	81	56	36	25	18	67	21	52	28	27	23	34	30	42	18	55	21	46
Mar	82	53	28	29	21	50	33	45	24	11	5	48	30	51	16	68	29	35
Mar	83	69	36	23	18	59	24	44	27	22	-1	56	35	58	16	71	31	35
Mar	84	60	33	36	20	51	34	64	32	37	0	54	28	42	26	68	34	37
Mar	85	54	26	48	11	39	29	58	34	46	13	52	20	51	21	74	36	33
Mar	86	71	36	37	18	60	20	51	33	47	22	47	19	55	25	69	42	30
Mar	87	74	35	24	6	65	22	59	30	39	24	42	25	64	32	61	35	33
Mar	88	68	37	22	2	34	26	46	36	47	25	39	28	57	31	37	31	33
Mar	89	74	29	35	0	42	21	41	25	56	26	50	29	47	22	36	31	53
Mar	90	71	41	53	22	28	14	55	25	59	28	60	25	58	21	33	27	59
Apr	91	57	23	48	27	40	13	48	30	47	9	69	30	48	24	42	26	59
Apr	92	53	37	42	23	54	20	50	30	63	28	63	36	46	15	38	29	49
Apr	93	43	26	58	16	59	20	35	28	65	36	62	35	59	21	52	30	60
Apr	94	31	20	61	29	67	26	38	24	54	31	67	32	72	37	61	28	40
Apr	95	51	22	58	34	59	24	42	20	39	19	74	36	76	37	58	38	39
Apr	96	64	27	64	32	46	27	40	36	45	14	76	37	69	37	52	34	46
Apr	97	60	20	64	30	73	29	57	37	50	27	61	34	53	29	41	30	56
Apr	98	59	20	67	31	75	26	37	20	63	35	45	32	49	28	54	24	46
Apr	99	58	33	64	32	72	23	25	15	56	28	43	28	50	30	62	30	52
Apr	100	54	30	45	22	41	26	45	6	28	10	54	27	59	34	47	33	48

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	53	31	49	20	51	21	47	19	27	10	42	27	54	35	51	26	53
Apr	102	52	20	48	31	69	23	56	23	50	21	30	23	44	29	43	30	65
Apr	103	46	19	46	25	71	25	59	29	50	23	33	25	41	18	37	30	58
Apr	104	29	8	61	24	69	21	51	21	48	31	34	14	65	24	42	30	46
Apr	105	51	11	70	34	58	26	69	20	60	29	44	27	58	41	50	25	55
Apr	106	70	33	70	36	63	29	48	40	48	28	44	28	64	37	51	28	74
Apr	107	57	33	77	40	74	36	51	21	52	17	48	33	54	35	62	27	78
Apr	108	45	32	80	41	72	31	59	26	67	29	42	33	67	40	55	37	62
Apr	109	45	30	79	38	56	24	68	23	64	39	43	29	58	39	47	26	73
Apr	110	46	34	47	31	58	29	71	29	69	37	48	25	44	31	38	25	72
Apr	111	60	30	58	24	60	21	83	44	76	46	54	26	32	26	61	18	69
Apr	112	77	35	72	25	54	20	84	49	76	44	57	30	49	16	66	32	81
Apr	113	73	46	72	35	32	19	70	39	72	44	62	29	48	32	53	38	71
Apr	114	56	26	69	34	54	21	44	42	60	40	67	38	47	33	53	36	65
Apr	115	53	26	79	42	54	21	48	40	51	43	68	37	44	34	55	37	54
Apr	116	47	36	75	40	47	24	47	42	54	21	62	34	50	35	66	32	35
Apr	117	44	29	71	39	38	16	25	25	46	30	45	32	62	27	57	41	30
Apr	118	56	29	81	46	52	21	28	26	32	25	42	34	78	27	54	34	29
Apr	119	60	26	76	44	69	22	36	23	35	19	35	30	72	45	59	29	34
Apr	120	60	30	83	60	70	43	34	21	33	22	40	29	79	41	49	31	48
May	121	61	26	78	53	79	37	49	14	50	21	51	28	85	50	49	30	54
May	122	68	40	62	41	76	36	57	26	56	27	40	31	53	45	63	29	57
May	123	89	40	52	43	41	22	48	34	55	34	36	26	66	30	72	34	57
May	124	89	40	59	33	52	32	48	24	64	35	43	28	59	30	73	48	65
May	125	84	28	67	38	55	26	48	34	76	24	48	29	59	30	63	47	54
May	126	52	33	69	37	76	40	69	26	62	27	53	28	72	40	58	45	52
May	127	46	34	71	39	74	48	76	25	48	28	55	38	81	53	62	38	68
May	128	40	33	81	52	51	33	68	45	48	28	75	37	86	44	55	37	62
May	129	40	32	79	47	47	33	67	36	42	29	73	51	79	48	55	33	71
May	130	66	31	79	50	62	33	76	50	55	22	65	51	67	47	66	31	79
May	131	72	31	76	42	69	36	81	52	51	35	73	51	66	38	71	35	70
May	132	68	34	79	52	69	44	71	55	54	29	62	46	65	38	74	40	81
May	133	69	31	74	54	75	46	59	40	50	30	73	46	57	34	79	42	67
May	134	69	34	80	44	85	50	60	40	60	30	71	43	58	37	71	50	62
May	135	55	38	83	60	82	44	64	28	56	45	68	50	70	41	62	50	72
May	136	55	34	85	55	66	38	62	46	51	39	56	44	75	46	71	37	80
May	137	65	28	73	42	81	38	63	40	61	30	53	44	65	41	61	48	80
May	138	67	28	60	42	80	47	78	41	57	42	65	44	73	29	62	38	75
May	139	67	40	65	46	82	43	66	40	61	35	79	55	87	38	57	35	76
May	140	75	38	61	34	56	42	63	32	59	43	80	55	88	53	66	31	66
May	141	74	46	51	32	60	35	70	41	65	41	78	55	88	61	76	47	70
May	142	79	56	60	35	62	37	72	43	69	49	70	50	76	56	64	48	81
May	143	52	41	64	40	62	37	85	48	71	45	69	50	62	37	63	44	70
May	144	50	36	60	38	68	35	71	46	69	50	63	48	59	39	54	39	70
May	145	62	36	61	37	77	48	52	27	60	37	74	47	62	41	69	34	66
May	146	60	36	66	50	77	52	57	37	62	40	60	47	60	20	80	44	69
May	147	69	41	68	41	80	48	78	37	64	42	60	41	58	29	68	49	81
May	148	70	42	67	48	81	47	74	47	68	42	59	43	65	38	67	49	70
May	149	74	43	60	41	81	48	66	42	62	52	72	41	63	34	71	48	80
May	150	77	45	66	45	85	46	43	28	66	50	72	44	69	39	67	46	66

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	84	46	81	45	85	60	54	37	76	53	63	43	65	42	71	42	70
June	152	78	40	81	45	77	47	68	33	56	53	66	51	64	43	64	42	68
June	153	85	62	59	42	63	48	60	35	63	43	68	46	60	43	64	42	66
June	154	84	55	66	39	73	47	60	39	59	43	73	46	74	40	43	41	83
June	155	79	47	77	42	81	46	63	39	84	43	65	47	71	51	60	35	83
June	156	69	46	87	50	87	61	72	43	68	42	65	46	67	37	65	46	75
June	157	77	51	86	53	88	57	78	44	67	44	72	52	57	44	63	44	79
June	158	72	45	79	54	93	57	71	47	71	45	70	55	62	39	53	46	74
June	159	72	52	67	54	94	63	64	40	71	43	72	45	65	40	54	41	69
June	160	68	50	65	52	93	64	79	47	80	47	69	46	71	39	69	41	67
June	161	63	51	75	50	90	57	80	48	85	58	73	42	74	44	73	44	69
June	162	76	40	78	47	89	65	71	61	71	55	86	54	80	49	81	49	76
June	163	75	31	82	50	86	66	62	50	69	44	77	57	82	53	73	58	74
June	164	73	45	87	53	77	56	49	39	66	40	75	60	77	51	72	37	90
June	165	74	54	86	52	66	50	63	40	58	46	77	49	82	54	67	37	72
June	166	79	48	83	56	62	49	79	47	59	47	71	40	73	52	78	52	65
June	167	82	51	90	62	76	41	85	52	68	45	84	58	56	50	66	51	64
June	168	93	68	78	49	88	51	77	52	76	47	74	54	65	38	65	45	71
June	169	91	57	78	54	90	53	78	42	85	45	73	50	67	49	50	45	84
June	170	75	57	76	56	89	58	95	44	75	49	79	58	76	46	72	41	85
June	171	79	53	78	54	88	55	74	57	71	45	72	55	72	47	83	42	82
June	172	79	51	82	51	97	60	66	43	60	50	64	56	71	52	83	53	83
June	173	80	28	80	56	91	64	60	39	70	42	66	54	78	50	82	59	73
June	174	77	48	72	39	91	59	62	38	83	45	72	46	79	47	73	46	83
June	175	91	62	71	50	90	62	55	47	85	46	85	57	81	52	60	34	85
June	176	88	60	72	41	96	63	68	39	86	55	89	60	73	54	66	46	76
June	177	85	60	75	42	93	57	71	43	90	56	77	47	70	48	78	43	92
June	178	86	50	82	48	92	58	82	52	92	65	75	49	69	51	80	53	75
June	179	80	55	83	48	90	63	88	54	86	57	81	57	90	49	82	55	82
June	180	80	54	69	48	87	59	82	55	85	63	83	53	81	57	67	54	90
June	181	79	54	81	46	87	58	88	55	94	60	77	60	71	50	71	45	84
July	182	76	46	79	54	64	49	84	61	92	73	72	51	77	49	61	55	75
July	183	84	51	78	49	75	44	80	61	100	68	73	52	61	45	76	53	93
July	184	93	62	77	57	85	50	87	57	78	63	75	50	57	47	72	51	82
July	185	93	51	82	55	92	57	100	58	78	58	87	49	70	39	65	51	79
July	186	83	51	83	52	95	57	89	77	86	54	82	53	72	51	65	50	78
July	187	74	41	81	52	95	57	81	52	92	68	85	64	79	50	69	46	61
July	188	77	52	76	49	91	65	92	58	81	64	79	53	82	51	69	46	57
July	189	76	49	77	47	80	53	98	56	74	50	75	47	79	51	67	49	72
July	190	80	57	78	62	82	54	82	60	82	60	76	55	77	47	73	42	84
July	191	72	50	76	53	82	50	82	52	77	57	77	55	66	47	67	43	93
July	192	66	49	69	49	73	49	83	55	68	47	77	51	59	44	67	41	81
July	193	77	41	61	38	77	54	83	58	68	43	75	47	68	53	74	41	76
July	194	85	42	74	38	85	59	76	59	82	43	81	46	56	52	55	48	73
July	195	86	54	79	46	91	53	67	57	75	52	93	57	75	52	70	43	74
July	196	84	61	92	48	98	73	66	51	74	50	91	58	83	48	77	55	75
July	197	86	59	94	63	92	59	78	52	90	51	89	59	73	50	66	55	73
July	198	82	63	83	55	84	66	73	52	82	57	93	60	68	43	69	52	82
July	199	80	67	82	57	85	51	71	52	82	60	85	62	72	46	68	52	91
July	200	76	51	82	53	76	49	79	50	75	57	87	52	83	47	70	44	76

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD															
		sd220704		1943-1999													
		Source - SDSU Climate Center (Bender, 2000a)										na=not available					
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	75	50	83	52	71	46	85	52	67	56	83	58	70	52	79	50	71
July	202	74	54	89	62	74	43	88	62	63	47	86	56	61	49	80	53	79
July	203	82	52	95	61	84	47	85	67	66	45	76	55	62	54	72	51	87
July	204	83	58	92	55	92	55	86	56	75	44	69	57	63	47	72	55	79
July	205	83	57	75	59	91	59	83	56	82	54	74	55	77	47	61	52	78
July	206	77	55	92	65	83	45	85	58	79	56	80	47	80	54	73	48	73
July	207	72	58	93	62	91	58	83	56	89	56	74	60	73	55	73	56	75
July	208	76	49	90	63	94	61	89	54	82	52	78	53	77	50	62	51	81
July	209	83	49	87	62	91	62	87	67	76	50	84	51	85	51	78	46	88
July	210	92	54	95	59	88	58	84	54	73	47	86	51	81	51	91	57	87
July	211	85	51	93	67	89	50	85	51	76	46	86	56	71	52	90	67	91
July	212	75	51	90	64	97	60	86	53	86	52	88	54	71	51	78	52	77
Aug	213	77	50	89	61	94	66	86	56	82	57	76	58	83	45	71	45	85
Aug	214	75	46	89	70	90	59	85	69	79	53	75	55	89	50	71	45	83
Aug	215	80	55	84	51	81	54	85	56	76	55	66	46	81	49	62	49	80
Aug	216	78	54	80	48	72	56	81	49	75	52	76	56	69	49	70	41	76
Aug	217	80	48	87	55	70	53	77	48	74	51	80	54	73	55	71	45	87
Aug	218	76	57	84	52	85	48	66	51	81	49	85	51	80	44	69	48	94
Aug	219	76	46	72	55	95	63	75	48	90	51	74	57	83	44	82	48	83
Aug	220	79	50	73	49	89	55	83	50	86	51	80	53	91	53	85	59	84
Aug	221	73	53	82	48	75	51	80	52	88	52	88	51	94	63	88	50	80
Aug	222	73	43	89	48	88	48	85	55	74	57	82	54	84	57	87	62	83
Aug	223	82	47	89	56	90	55	80	56	68	53	80	57	76	51	83	58	82
Aug	224	83	53	79	48	94	55	80	55	71	50	76	57	76	50	63	52	85
Aug	225	68	54	76	49	89	58	83	55	82	50	83	53	76	40	85	51	79
Aug	226	75	51	80	57	82	51	76	49	79	53	90	55	77	45	80	53	86
Aug	227	91	51	80	50	93	51	80	54	83	52	77	55	82	46	79	55	90
Aug	228	87	54	68	45	94	56	86	58	87	54	75	55	89	46	89	51	89
Aug	229	82	52	66	42	85	70	89	52	81	56	81	47	76	58	77	50	86
Aug	230	89	52	69	38	81	54	77	62	77	52	80	59	80	52	73	51	84
Aug	231	95	70	76	43	83	50	71	49	76	51	90	59	83	51	76	50	84
Aug	232	89	54	82	51	85	57	73	47	78	53	89	52	85	51	76	55	78
Aug	233	75	50	81	57	92	65	80	54	79	63	93	52	88	52	84	55	91
Aug	234	73	53	71	48	87	61	85	48	84	62	88	53	82	51	69	51	93
Aug	235	84	45	69	40	75	48	90	52	77	56	85	52	76	62	81	53	82
Aug	236	84	41	65	44	80	43	83	64	81	56	92	65	76	42	87	51	90
Aug	237	85	56	62	54	85	44	73	53	83	54	96	57	44	40	70	54	89
Aug	238	75	50	58	49	77	45	69	44	81	54	92	57	49	39	65	52	95
Aug	239	71	50	61	38	83	52	71	48	83	48	96	59	62	43	71	42	78
Aug	240	79	45	73	39	76	40	72	45	81	57	85	69	76	38	73	46	82
Aug	241	84	50	80	45	72	34	77	45	88	48	87	58	84	43	68	46	84
Aug	242	80	60	71	47	76	35	92	61	97	53	92	56	63	44	60	43	67
Aug	243	73	53	75	43	84	56	86	53	79	51	88	68	67	34	75	36	58
Sept	244	73	52	75	45	80	47	74	43	85	52	94	63	67	37	70	43	52
Sept	245	63	47	89	52	79	45	88	41	88	60	85	63	71	52	59	47	64
Sept	246	70	48	81	54	80	47	84	45	87	61	76	52	73	47	77	37	83
Sept	247	65	43	76	46	76	39	75	41	76	54	78	47	85	44	66	44	74
Sept	248	63	44	57	48	75	40	87	47	82	58	75	47	85	49	52	42	72
Sept	249	44	37	73	39	74	43	78	48	80	58	91	57	82	47	58	40	79
Sept	250	63	30	71	39	82	41	65	44	82	51	84	59	68	40	64	38	86

		Appendix A. Daily Maximum and Minimum Temperatures (deg F) for Deadwood, SD																
		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	70	33	72	37	78	61	52	47	85	51	69	58	59	39	77	39	87
Sept	252	71	46	72	42	73	41	45	40	85	54	69	54	73	33	63	46	93
Sept	253	64	49	72	47	77	43	48	37	79	50	68	49	73	44	73	35	76
Sept	254	67	42	56	40	85	57	48	22	88	47	77	49	74	34	85	45	79
Sept	255	59	42	68	33	82	42	54	27	90	48	68	53	80	44	70	44	74
Sept	256	62	40	77	38	49	40	65	28	72	56	69	48	82	50	52	27	78
Sept	257	63	30	80	40	58	38	75	25	71	35	67	45	82	42	59	26	79
Sept	258	62	42	77	48	59	40	82	42	70	42	60	40	73	37	76	33	66
Sept	259	64	44	68	42	61	47	84	42	80	54	65	38	87	47	55	39	69
Sept	260	61	48	55	42	80	40	85	55	75	56	53	43	87	45	46	42	75
Sept	261	62	48	68	23	68	45	78	56	67	46	51	27	71	50	57	42	80
Sept	262	55	40	63	31	66	42	57	54	62	49	65	24	67	29	50	42	78
Sept	263	69	50	62	22	58	34	66	50	59	48	80	35	80	40	70	37	74
Sept	264	64	49	66	33	62	33	58	42	65	33	77	43	80	44	58	46	54
Sept	265	64	38	76	37	69	36	52	37	56	37	69	37	75	47	57	33	61
Sept	266	74	37	79	40	65	45	60	32	72	31	51	31	80	40	62	31	72
Sept	267	71	51	78	44	70	35	73	41	80	31	66	31	89	47	62	41	76
Sept	268	64	45	82	42	71	40	70	38	80	43	67	43	89	53	68	36	76
Sept	269	61	35	84	49	78	41	82	44	78	50	76	38	86	47	62	35	76
Sept	270	60	37	76	48	78	41	82	48	64	50	70	38	69	42	57	35	75
Sept	271	56	47	58	43	69	43	76	50	62	40	79	41	60	42	60	39	85
Sept	272	58	31	64	33	68	37	82	49	58	40	72	48	70	20	46	30	70
Sept	273	61	30	74	35	59	35	84	53	68	45	71	42	83	41	66	41	57
Oct	274	62	37	72	40	70	37	85	40	76	39	81	48	85	42	50	39	57
Oct	275	47	38	67	32	68	41	45	29	67	46	67	39	86	44	62	30	51
Oct	276	49	36	80	39	62	39	38	29	55	35	50	39	84	44	78	40	49
Oct	277	57	32	73	42	59	35	48	35	75	39	48	33	81	41	72	39	50
Oct	278	55	33	63	29	55	25	56	41	79	58	70	26	75	43	81	45	79
Oct	279	70	37	57	29	56	20	50	22	71	27	63	22	64	41	80	46	57
Oct	280	65	39	66	28	62	22	58	32	33	23	76	30	45	22	76	37	53
Oct	281	54	38	56	40	67	20	64	36	40	24	70	42	41	29	37	25	56
Oct	282	63	33	43	24	72	31	61	40	53	23	70	34	53	19	39	16	67
Oct	283	56	37	29	24	66	37	76	27	66	31	77	38	48	24	57	17	72
Oct	284	26	23	59	21	62	37	76	45	44	32	77	44	58	32	62	27	77
Oct	285	36	13	71	21	69	34	76	39	58	26	79	43	64	25	59	31	51
Oct	286	48	20	64	41	76	40	69	41	46	33	50	44	61	36	59	31	52
Oct	287	53	33	47	37	74	42	68	39	50	30	53	38	67	39	60	36	71
Oct	288	64	28	52	27	72	39	65	33	51	29	73	42	46	26	56	35	63
Oct	289	68	31	48	28	59	45	40	26	52	32	82	44	32	27	42	25	52
Oct	290	72	33	60	30	60	42	36	22	44	28	53	45	41	9	53	37	45
Oct	291	74	40	49	30	55	38	49	18	58	20	45	29	42	20	52	33	49
Oct	292	74	36	37	23	50	20	46	22	55	30	51	31	56	25	59	32	57
Oct	293	64	37	37	25	52	35	69	31	42	28	62	27	60	35	46	28	62
Oct	294	64	40	59	21	56	40	70	36	51	23	58	34	75	33	64	24	63
Oct	295	52	46	46	25	63	33	67	44	51	31	49	38	81	40	68	30	57
Oct	296	59	44	45	25	63	41	72	35	46	28	48	26	70	45	69	33	49
Oct	297	57	34	52	20	53	30	70	37	53	24	46	25	70	37	69	34	46
Oct	298	58	32	62	27	52	25	77	39	72	28	52	24	80	37	46	34	58
Oct	299	65	31	48	32	50	28	75	43	72	37	62	28	53	44	43	31	69
Oct	300	66	27	54	25	67	30	55	31	56	27	73	32	69	28	55	23	66

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		sd220704		1943-1999														
		Source - SDSU Climate Center (Bender, 2000a)										na=not available						
	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	55	42	65	31	54	21	46	32	76	35	56	6	53	35	38	32	47
Oct	302	58	31	71	36	34	14	39	20	73	37	18	6	47	35	33	12	48
Oct	303	66	35	65	34	42	24	29	13	71	31	19	-7	52	35	46	15	47
Oct	304	47	20	67	38	62	24	34	23	71	37	29	1	57	36	61	24	58
Nov	305	46	23	65	48	63	35	33	17	56	45	8	3	51	35	42	34	64
Nov	306	57	24	56	38	66	32	45	20	54	28	8	-4	47	22	43	23	56
Nov	307	46	26	55	39	60	39	46	26	31	18	33	0	33	17	59	35	30
Nov	308	58	28	52	36	56	35	47	32	47	16	48	10	26	23	52	17	40
Nov	309	56	33	59	28	44	33	40	23	38	26	37	33	24	21	19	13	45
Nov	310	52	20	59	30	46	31	46	29	37	10	36	3	24	4	38	5	51
Nov	311	27	20	54	35	60	25	47	28	43	7	42	5	35	13	36	21	55
Nov	312	22	17	44	21	51	29	41	26	42	19	62	19	44	15	42	16	47
Nov	313	6	2	54	25	48	25	52	31	50	22	45	31	41	34	44	18	50
Nov	314	19	-15	59	27	31	24	65	41	58	36	53	22	42	27	51	22	58
Nov	315	32	-1	62	27	40	19	45	35	63	33	50	27	39	21	55	23	60
Nov	316	18	-8	57	38	44	27	66	37	69	31	64	29	45	19	39	28	57
Nov	317	45	-10	55	33	42	22	40	29	65	32	53	32	34	20	39	24	45
Nov	318	47	22	47	32	45	27	37	26	62	42	38	22	38	21	30	25	34
Nov	319	31	18	41	28	58	28	22	13	50	29	40	22	51	23	50	15	49
Nov	320	42	20	39	15	39	19	39	2	50	21	51	24	60	30	45	22	50
Nov	321	47	26	34	15	37	19	31	19	56	27	53	28	54	29	51	22	46
Nov	322	49	11	46	16	37	19	45	24	51	30	44	29	50	27	46	29	34
Nov	323	45	20	44	38	30	20	63	36	52	27	41	26	37	30	43	18	41
Nov	324	55	23	58	27	36	14	45	31	59	29	61	24	39	25	50	22	49
Nov	325	58	31	59	27	42	13	55	30	52	28	42	31	39	21	55	26	29
Nov	326	40	23	41	38	42	19	33	14	51	26	39	18	39	22	30	13	32
Nov	327	42	19	42	22	50	19	50	16	56	34	25	19	35	21	30	1	50
Nov	328	60	35	42	23	57	30	45	22	64	46	31	5	25	17	2	-7	49
Nov	329	37	30	42	19	53	27	40	16	64	19	47	16	21	17	4	-8	42
Nov	330	53	16	33	26	26	13	41	23	29	15	39	28	30	8	15	1	44
Nov	331	56	24	41	17	28	13	25	15	28	11	36	21	40	9	42	13	31
Nov	332	55	29	42	15	21	7	23	11	29	19	33	21	39	16	45	20	26
Nov	333	43	20	37	15	42	18	48	12	54	22	26	11	36	19	49	22	31
Nov	334	27	21	44	15	34	25	49	17	45	32	25	5	39	10	52	25	54
Dec	335	47	19	48	16	40	25	41	18	31	12	28	1	46	10	41	26	53
Dec	336	34	23	48	25	55	31	38	11	32	16	31	10	30	26	40	24	50
Dec	337	28	12	56	22	63	22	42	10	31	11	28	9	31	8	37	23	50
Dec	338	41	10	64	20	42	20	56	30	55	18	48	18	18	16	49	23	31
Dec	339	39	20	58	35	55	23	49	28	40	29	48	26	23	8	30	23	15
Dec	340	34	15	59	27	58	27	40	23	37	16	55	28	42	1	36	4	19
Dec	341	39	18	51	38	44	28	33	18	51	26	49	30	36	16	40	10	34
Dec	342	25	19	41	31	34	14	38	17	58	25	45	28	46	11	53	20	31
Dec	343	21	3	31	26	24	9	49	26	61	27	47	23	44	17	45	35	35
Dec	344	35	-3	53	23	37	13	29	12	62	28	37	31	43	21	52	23	33
Dec	345	35	22	36	20	39	24	25	-9	52	27	49	18	42	24	64	27	37
Dec	346	35	14	31	22	36	23	25	-5	32	26	42	24	44	27	53	34	37
Dec	347	47	18	22	14	46	20	22	5	41	9	30	24	36	19	38	29	46
Dec	348	50	19	19	8	54	29	14	7	25	18	31	13	24	14	47	15	40
Dec	349	45	18	22	4	39	17	9	-20	25	7	43	14	37	-3	36	16	40
Dec	350	44	20	39	4	21	9	11	-20	36	13	47	18	31	5	23	12	40

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	Day of	1986	1986	1987	1987	1988	1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	34	22	42	20	33	6	7	-10	37	7	44	14	29	9	40	18	42
Dec	352	48	15	43	15	48	20	13	-11	35	12	54	18	32	-1	40	11	58
Dec	353	41	14	27	14	57	30	4	-6	33	-15	43	28	17	8	24	17	36
Dec	354	41	14	28	8	42	23	6	-19	-14	-26	39	26	23	-4	36	19	51
Dec	355	42	15	38	15	33	20	-3	-26	-15	-25	59	21	39	7	26	20	59
Dec	356	53	20	33	12	46	20	-10	-30	0	-29	45	22	38	20	27	4	54
Dec	357	44	22	26	18	29	26	28	-26	13	-23	45	15	34	20	17	7	60
Dec	358	42	20	30	0	31	14	40	27	22	5	42	19	29	2	34	11	52
Dec	359	42	15	30	-5	27	12	43	25	19	-9	45	20	47	4	46	25	57
Dec	360	46	15	40	11	19	10	46	26	26	-5	47	17	42	9	42	33	55
Dec	361	44	15	24	18	10	0	53	26	34	-1	49	16	46	18	36	13	51
Dec	362	43	20	40	10	20	-5	43	27	23	-10	49	16	40	-4	38	8	52
Dec	363	52	20	53	9	25	0	43	21	-10	-24	46	16	48	-5	38	12	45
Dec	364	43	25	35	7	32	8	30	18	17	-22	46	19	11	-13	46	16	36
Dec	365	32	26	13	0	29	18	31	17	39	-10	42	17	27	na	37	27	21
29-Feb	366					34	17							24	-13			

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Jan	1	22	27	4	30	19	54	27	57	27	35	19		
Jan	2	22	19	14	23	-3	57	25	53	27	23	2		
Jan	3	20	19	-9	22	0	50	25	46	5	3	-10		
Jan	4	14	26	-6	25	6	42	23	42	5	12	-5		
Jan	5	23	39	2	7	-4	28	2	36	20	33	14		
Jan	6	-3	23	6	10	-3	28	3	42	13	35	4		
Jan	7	-10	39	6	25	1	29	4	45	16	8	3		
Jan	8	14	47	18	40	21	35	15	25	16	31	3		
Jan	9	19	44	21	48	22	25	6	20	-2	29	-3		
Jan	10	16	56	22	46	24	12	-12	4	-5	32	18		
Jan	11	20	47	31	43	24	6	-21	-4	-8	39	19		
Jan	12	20	44	28	47	32	-15	-15	16	-13	52	32		
Jan	13	30	45	22	59	31	5	-11	33	-9	44	23		
Jan	14	16	55	22	56	21	14	-4	42	14	26	20		
Jan	15	7	51	22	31	19	26	0	36	21	53	28		
Jan	16	12	32	21	52	33	20	-17	35	25	44	19		
Jan	17	8	28	15	47	-10	18	-14	43	17	45	21		
Jan	18	-8	34	14	12	-16	24	19	42	20	29	12		
Jan	19	2	41	16	10	-14	45	29	51	17	48	23		
Jan	20	4	37	25	14	1	57	28	28	22	48	24		
Jan	21	8	30	9	23	16	60	25	30	8	50	23		
Jan	22	22	33	10	40	0	45	12	36	15	37	16		
Jan	23	24	43	9	19	5	29	13	35	16	40	18		
Jan	24	26	46	14	21	5	34	3	46	14	36	5		
Jan	25	21	52	15	25	-15	8	-13	44	24	16	4		
Jan	26	16	54	25	10	-5	-3	-11	49	22	47	15		
Jan	27	12	40	40	24	-5	16	-10	52	24	35	20		
Jan	28	17	32	25	16	-7	25	2	40	29	33	9		
Jan	29	18	43	14	2	-16	40	17	55	18	46	15		
Jan	30	5	50	12	-9	-16	41	30	50	23	55	20		
Jan	31	6	53	27	6	-10	56	34	39	28	53	19		
Feb	32	10	55	37	11	-5	49	33	40	25	45	25		
Feb	33	-3	50	34	6	-27	40	26	27	16	38	26		
Feb	34	0	39	29	3	-22	44	26	50	17	42	31		
Feb	35	-3	44	26	13	-21	31	18	51	22	36	16		
Feb	36	11	39	25	44	16	31	4	48	20	54	21		
Feb	37	9	34	19	53	22	30	6	49	23	41	23		
Feb	38	-12	35	19	51	42	34	6	54	23	52	24		
Feb	39	-15	37	16	53	28	33	6	48	24	52	22		
Feb	40	-21	62	17	67	24	43	8	44	24	39	33		
Feb	41	6	32	11	62	21	37	8	43	23	57	31		
Feb	42	14	25	10	33	26	34	14	48	18	31	14		
Feb	43	-5	15	-8	44	21	25	-2	42	10	27	16		
Feb	44	8	9	-9	55	23	42	17	45	19	42	24		
Feb	45	24	19	-3	49	27	38	25	45	30	64	27		
Feb	46	13	35	-1	40	8	39	27	47	27	53	26		
Feb	47	28	42	9	25	9	39	28	44	23	34	10		
Feb	48	25	49	26	55	21	57	28	37	32	39	19		
Feb	49	40	47	37	48	36	57	31	34	32	28	24		
Feb	50	23	58	27	51	25	40	34	43	23	38	23		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Feb	51	5	55	29	52	29	52	32	47	19	37	23		
Feb	52	7	65	33	53	28	36	22	56	19	33	12		
Feb	53	0	51	30	57	33	34	22	52	25	36	21		
Feb	54	4	46	24	53	18	28	-7	43	26	36	16		
Feb	55	3	65	27	29	22	29	0	48	23	46	23		
Feb	56	-10	64	31	50	15	38	17	30	23	57	20		
Feb	57	-1	55	30	17	5	50	21	23	20	60	25		
Feb	58	22	41	11	8	-6	30	12	22	15	42	26		
Feb	59	27	15	1	4	-4	45	19	20	14	41	25		
Mar	60	24	12	-8	27	12	30	10	20	15	56	28		
Mar	61	30	29	-2	26	10	34	9	28	4	43	26		
Mar	62	30	35	8	24	13	45	15	36	4	27	13		
Mar	63	29	17	6	41	15	29	0	22	5	49	26		
Mar	64	32	16	-7	19	8	27	11	20	2	38	19		
Mar	65	26	20	-4	14	-4	30	10	21	-2	23	6		
Mar	66	16	19	-4	14	-5	47	17	19	4	37	2		
Mar	67	10	48	5	6	-16	49	25	22	-4	38	23		
Mar	68	12	40	25	27	-16	47	25	26	-1	33	14		
Mar	69	20	62	39	50	6	48	17	23	6	44	23		
Mar	70	27	70	35	68	22	45	27	36	-15	25	11		
Mar	71	26	61	35	60	28	49	21	49	10	34	8		
Mar	72	27	51	25	55	22	36	15	42	23	34	16		
Mar	73	40	60	29	48	28	15	-7	47	19	52	16		
Mar	74	26	72	33	52	28	16	-7	47	26	63	26		
Mar	75	29	62	35	59	22	41	10	56	26	62	27		
Mar	76	35	38	27	29	22	61	33	42	30	65	26		
Mar	77	27	60	27	25	25	48	27	33	26	42	20		
Mar	78	28	50	29	29	15	56	26	33	25	58	20		
Mar	79	28	57	31	21	11	68	37	46	19	66	27		
Mar	80	25	67	34	57	22	72	36	46	24	53	27		
Mar	81	27	56	39	43	28	47	27	50	29	54	28		
Mar	82	26	58	25	58	29	49	30	52	27	55	20		
Mar	83	7	53	44	38	1	57	28	67	35	58	20		
Mar	84	21	48	25	5	-7	34	22	67	38	54	22		
Mar	85	20	39	21	18	0	53	34	59	38	67	28		
Mar	86	15	25	19	41	13	71	36	45	33	72	32		
Mar	87	11	25	18	25	14	65	24	36	30	43	20		
Mar	88	13	28	17	26	14	49	24	31	27	40	20		
Mar	89	10	35	10	31	15	40	25	34	24	58	35		
Mar	90	22	47	14	41	15	58	28	44	12	63	29		
Apr	91	25	65	26	51	24	60	31	53	21	53	22		
Apr	92	34	53	40	64	20	46	28	57	23	24	20		
Apr	93	28	42	29	68	22	47	25	55	27	25	17		
Apr	94	25	61	23	43	18	68	35	63	27	26	14		
Apr	95	11	58	28	38	18	51	15	48	26	44	20		
Apr	96	21	63	33	53	21	17	10	49	23	48	20		
Apr	97	29	58	33	60	28	28	6	35	31	56	30		
Apr	98	20	46	32	59	46	22	0	42	28	62	28		
Apr	99	23	44	24	58	40	26	5	49	25	57	23		
Apr	100	30	36	20	75	31	24	11	61	27	59	31		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Apr	101	25	28	17	79	41	19	7	74	34	33	26		
Apr	102	24	55	18	41	22	26	9	51	45	49	25		
Apr	103	35	65	29	43	20	34	3	48	31	61	29		
Apr	104	33	62	37	33	22	47	14	46	28	63	30		
Apr	105	24	53	31	40	28	53	32	38	31	42	26		
Apr	106	34	44	28	54	27	42	20	49	20	37	23		
Apr	107	47	35	29	69	21	58	32	43	29	37	18		
Apr	108	41	39	28	61	40	69	36	44	27	55	36		
Apr	109	41	43	17	58	36	64	38	30	25	64	33		
Apr	110	49	46	28	47	27	64	39	54	25	69	27		
Apr	111	43	42	31	52	29	65	38	58	29	62	39		
Apr	112	53	46	25	53	22	50	35	68	29	41	33		
Apr	113	49	41	36	50	23	45	26	76	34	40	29		
Apr	114	43	52	27	63	28	52	28	76	45	44	34		
Apr	115	27	43	33	72	42	49	36	53	41	49	39		
Apr	116	19	43	22	48	27	52	36	50	28	50	28		
Apr	117	12	52	22	53	21	48	29	56	33	55	25		
Apr	118	21	40	30	47	29	68	31	64	32	62	45		
Apr	119	23	40	30	35	22	54	34	69	33	67	46		
Apr	120	27	35	30	55	22	43	32	73	38	62	46		
May	121	27	43	30	49	29	54	32	59	41	61	49		
May	122	27	48	34	52	29	44	31	63	28	60	45		
May	123	34	51	39	53	24	40	20	77	29	57	41		
May	124	31	57	30	53	21	56	22	62	26	48	40		
May	125	39	60	40	48	26	70	32	72	22	49	36		
May	126	41	56	44	52	22	63	34	59	41	60	37		
May	127	32	63	44	55	27	65	40	58	28	60	36		
May	128	45	55	36	66	26	58	45	41	32	61	22		
May	129	37	48	33	47	29	53	26	53	31	55	40		
May	130	41	62	35	41	22	72	29	52	34	39	35		
May	131	43	68	39	48	22	75	39	51	42	50	33		
May	132	45	60	44	55	35	54	35	64	39	64	29		
May	133	53	57	32	56	40	58	32	80	44	61	46		
May	134	40	56	31	68	44	63	38	68	53	49	40		
May	135	37	76	31	71	45	61	34	63	42	65	24		
May	136	50	63	42	73	47	74	33	74	34	60	39		
May	137	62	60	35	83	49	79	47	78	34	60	31		
May	138	49	68	37	67	48	79	47	73	40	71	36		
May	139	50	57	47	74	42	47	39	74	38	69	43		
May	140	54	62	35	60	37	60	32	76	53	69	43		
May	141	42	68	36	57	23	69	34	63	52	73	48		
May	142	47	59	36	66	28	75	52	66	47	68	47		
May	143	51	50	34	60	42	57	50	57	47	69	36		
May	144	46	49	32	48	42	65	50	58	46	69	36		
May	145	44	48	33	46	29	69	48	68	39	69	41		
May	146	38	53	44	45	29	61	44	77	39	75	47		
May	147	43	47	44	45	31	44	41	79	47	70	46		
May	148	57	55	44	37	24	41	38	75	41	78	52		
May	149	46	65	26	44	40	47	36	72	41	83	47		
May	150	46	70	40	65	48	56	36	79	51	48	47		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
May	151	42	71	41	69	40	71	34	70	49	54	41		
June	152	53	na	na	63	37	78	48	74	50	69	40		
June	153	51	na	na	66	41	78	50	58	44	82	45		
June	154	46	na	na	62	29	70	47	44	31	75	48		
June	155	53	na	na	68	46	76	47	43	34	76	45		
June	156	49	na	na	77	51	77	50	52	34	69	49		
June	157	49	na	na	71	47	78	51	60	35	73	47		
June	158	59	na	na	66	38	74	57	50	40	75	43		
June	159	47	na	na	73	45	81	54	49	40	83	47		
June	160	44	na	na	85	53	79	56	56	44	83	47		
June	161	39	na	na	87	46	76	49	72	46	69	44		
June	162	43	na	na	80	60	72	53	65	44	55	44		
June	163	51	na	na	87	52	67	50	75	41	67	44		
June	164	48	na	na	73	55	66	44	71	41	67	40		
June	165	49	na	na	81	51	65	54	52	48	67	40		
June	166	45	na	na	85	50	77	54	66	41	63	47		
June	167	44	na	na	73	51	69	44	69	47	62	28		
June	168	53	na	na	73	50	80	61	52	49	67	47		
June	169	56	na	na	86	60	74	49	62	46	76	52		
June	170	60	na	na	76	48	77	48	74	43	80	51		
June	171	51	na	na	68	43	74	49	65	45	86	51		
June	172	55	na	na	77	52	67	47	71	41	92	58		
June	173	59	na	na	68	54	77	62	75	41	89	62		
June	174	51	na	na	61	49	91	56	77	41	74	47		
June	175	52	na	na	70	47	76	52	78	46	80	49		
June	176	59	na	na	83	64	68	42	83	47	92	62		
June	177	43	na	na	81	58	71	49	80	53	93	55		
June	178	56	na	na	89	67	85	53	72	44	73	52		
June	179	52	na	na	85	59	87	54	78	45	70	45		
June	180	50	na	na	84	50	80	52	78	45	67	52		
June	181	55	na	na	74	50	77	52	76	48	67	50		
July	182	58	72	43	85	49	70	60	79	55	69	49		
July	183	53	80	43	85	55	61	44	81	59	72	52		
July	184	56	70	49	89	64	63	42	74	56	77	59		
July	185	51	65	53	92	57	70	39	86	56	89	60		
July	186	51	70	51	91	60	72	46	85	63	73	52		
July	187	57	81	46	86	57	80	47	83	56	82	48		
July	188	49	84	46	71	54	78	51	83	53	94	55		
July	189	43	82	53	77	44	84	50	81	57	78	61		
July	190	54	91	53	71	51	91	57	81	57	67	51		
July	191	61	91	57	72	53	93	63	86	63	74	44		
July	192	53	91	67	86	54	73	59	89	64	83	50		
July	193	54	92	53	75	44	78	55	89	52	90	51		
July	194	52	80	59	74	44	69	40	88	53	91	56		
July	195	46	70	57	73	43	85	47	88	62	86	55		
July	196	50	71	54	77	44	92	50	86	57	82	55		
July	197	48	66	49	82	67	89	59	92	58	82	47		
July	198	48	77	46	88	60	88	59	93	57	74	52		
July	199	60	83	58	84	52	84	64	99	64	82	54		
July	200	57	72	59	87	52	73	59	95	62	79	57		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
July	201	47	78	53	91	63	72	58	89	60	82	53		
July	202	50	76	51	82	56	76	55	77	57	90	56		
July	203	49	71	52	82	51	87	55	73	48	89	68		
July	204	48	76	48	79	50	91	59	74	52	88	58		
July	205	55	80	49	78	46	82	63	75	52	96	59		
July	206	51	79	51	75	46	86	56	80	55	95	59		
July	207	45	93	52	79	46	82	61	85	55	81	56		
July	208	42	87	62	75	47	78	60	89	53	83	64		
July	209	50	84	53	79	60	71	59	82	65	97	57		
July	210	55	100	63	79	47	61	56	66	55	94	64		
July	211	54	85	58	79	51	79	53	69	56	86	60		
July	212	53	70	49	75	55	79	63	81	56	80	57		
Aug	213	54	84	47	79	54	82	54	85	57	77	55		
Aug	214	64	88	53	90	61	85	57	84	49	77	49		
Aug	215	53	74	53	92	57	83	60	67	49	82	51		
Aug	216	55	77	56	86	58	88	54	67	55	78	55		
Aug	217	62	82	52	86	48	85	59	74	50	79	58		
Aug	218	56	91	52	87	46	74	55	81	51	79	55		
Aug	219	53	95	52	70	44	76	48	81	52	78	56		
Aug	220	53	75	60	79	46	79	56	89	54	80	55		
Aug	221	59	79	44	88	44	85	53	82	56	91	56		
Aug	222	60	83	51	84	48	66	49	81	56	84	53		
Aug	223	57	89	61	84	48	58	49	79	52	91	58		
Aug	224	58	79	58	90	54	62	48	85	52	85	58		
Aug	225	56	73	60	95	52	74	49	87	55	62	46		
Aug	226	50	79	43	80	59	70	48	77	52	76	46		
Aug	227	50	90	52	83	56	73	53	85	53	92	53		
Aug	228	56	93	58	73	51	72	51	83	55	86	50		
Aug	229	48	92	62	86	55	60	48	83	54	82	50		
Aug	230	61	80	50	90	55	66	49	90	60	81	47		
Aug	231	47	82	40	76	51	78	49	80	59	81	50		
Aug	232	45	85	41	74	56	74	46	85	60	87	59		
Aug	233	54	92	55	92	61	77	55	82	59	87	52		
Aug	234	60	88	64	74	46	83	54	86	58	79	50		
Aug	235	54	85	60	79	55	87	54	86	49	83	45		
Aug	236	52	87	63	86	56	91	56	72	49	80	48		
Aug	237	64	78	60	89	52	93	53	82	47	89	62		
Aug	238	57	81	59	79	52	80	59	82	54	90	56		
Aug	239	59	86	61	77	64	86	58	82	54	92	58		
Aug	240	48	78	63	87	57	83	59	86	50	90	61		
Aug	241	48	93	62	86	58	91	59	87	49	77	58		
Aug	242	47	73	55	69	49	79	57	82	49	77	54		
Aug	243	42	81	46	78	50	83	60	84	50	86	64		
Sept	244	44	90	47	na	na	80	62	83	48	85	55		
Sept	245	41	88	47	na	na	65	46	89	59	68	53		
Sept	246	47	88	50	na	na	76	60	90	50	61	47		
Sept	247	45	91	53	na	na	84	61	98	50	55	44		
Sept	248	45	85	58	na	na	81	52	97	58	47	38		
Sept	249	41	72	54	na	na	83	52	76	58	74	38		
Sept	250	45	61	54	na	na	81	49	87	52	85	45		

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		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Sept	251	47	69	47	na	na	82	49	90	55	62	29		
Sept	252	57	68	46	na	na	64	37	94	67	65	35		
Sept	253	56	80	55	na	na	74	46	88	58	71	42		
Sept	254	52	71	49	na	na	83	54	95	56	77	49		
Sept	255	56	78	45	na	na	85	62	78	60	56	40		
Sept	256	55	75	46	na	na	76	48	81	56	51	33		
Sept	257	58	80	46	na	na	82	48	74	51	59	33		
Sept	258	47	83	51	na	na	83	53	82	48	62	33		
Sept	259	41	64	44	na	na	87	45	86	48	68	40		
Sept	260	40	70	43	na	na	69	37	86	53	77	44		
Sept	261	40	63	44	na	na	79	47	86	53	82	45		
Sept	262	45	54	24	na	na	70	38	91	52	71	40		
Sept	263	44	37	22	na	na	52	32	71	41	55	36		
Sept	264	34	27	22	na	na	63	49	52	38	64	35		
Sept	265	33	57	25	na	na	60	46	65	26	76	39		
Sept	266	26	50	31	na	na	47	35	66	43	83	42		
Sept	267	38	58	31	na	na	66	37	75	40	81	47		
Sept	268	41	71	31	na	na	75	39	77	43	76	40		
Sept	269	41	72	35	na	na	81	47	71	41	73	42		
Sept	270	42	73	43	na	na	75	44	73	42	52	29		
Sept	271	44	78	41	na	na	57	41	76	41	47	30		
Sept	272	43	62	42	na	na	65	44	78	42	49	29		
Sept	273	50	60	48	na	na	71	44	79	43	71	25		
Oct	274	40	62	38	76	40	80	39	58	37	56	28		
Oct	275	41	52	38	73	32	86	44	43	40	32	28		
Oct	276	36	62	30	53	31	83	44	48	40	35	27		
Oct	277	36	45	35	67	33	65	36	41	38	50	27		
Oct	278	42	40	24	79	38	79	29	42	32	69	36		
Oct	279	50	52	22	79	44	69	28	50	31	71	42		
Oct	280	37	56	22	59	40	61	36	67	31	80	33		
Oct	281	31	56	20	67	37	83	39	65	35	62	35		
Oct	282	30	58	31	66	36	45	26	67	34	69	45		
Oct	283	32	66	33	61	23	63	29	65	38	67	42		
Oct	284	36	80	42	79	34	76	28	49	36	64	41		
Oct	285	43	75	46	76	45	78	37	62	29	81	41		
Oct	286	37	66	38	76	45	35	22	68	29	65	35		
Oct	287	38	61	28	75	38	38	26	60	40	74	32		
Oct	288	49	71	31	62	34	62	30	57	36	68	39		
Oct	289	45	74	29	66	31	61	34	42	42	43	30		
Oct	290	42	60	42	40	28	71	35	45	31	42	23		
Oct	291	42	60	42	45	17	80	40	53	29	52	33		
Oct	292	41	47	33	57	18	67	27	54	28	44	31		
Oct	293	31	56	27	65	35	48	20	52	27	60	31		
Oct	294	32	55	29	36	22	41	30	60	28	66	40		
Oct	295	32	33	21	28	23	49	29	68	23	66	33		
Oct	296	26	38	27	52	20	59	29	69	30	62	32		
Oct	297	25	46	18	47	28	46	31	59	41	65	33		
Oct	298	25	53	24	51	26	30	24	64	33	72	33		
Oct	299	28	48	27	50	30	29	12	67	33	66	38		
Oct	300	35	40	33	32	16	47	13	64	35	76	38		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
	Day of	1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Oct	301	41	47	25	49	15	61	29	56	41	56	26		
Oct	302	27	34	25	52	15	53	29	48	38	69	29		
Oct	303	22	33	28	37	23	59	28	37	29	53	31		
Oct	304	22	28	24	29	15	57	32	43	35	62	40		
Nov	305	35	18	15	29	14	45	37	56	35	65	28		
Nov	306	29	17	7	37	24	44	32	39	33	35	21		
Nov	307	21	33	-1	46	27	44	26	32	29	59	26		
Nov	308	13	42	12	60	25	57	27	31	25	59	22		
Nov	309	24	46	16	51	28	48	31	32	25	71	27		
Nov	310	28	42	26	35	21	49	21	29	24	58	26		
Nov	311	28	31	26	27	24	65	22	30	24	71	39		
Nov	312	26	57	20	25	12	68	20	36	17	75	54		
Nov	313	22	50	31	40	16	31	20	24	15	73	42		
Nov	314	25	44	14	36	23	23	6	27	17	57	32		
Nov	315	30	59	15	30	19	26	12	42	16	62	42		
Nov	316	33	49	10	24	17	25	8	42	15	65	42		
Nov	317	33	44	26	37	16	43	15	57	27	75	41		
Nov	318	20	51	29	23	19	17	7	48	40	69	35		
Nov	319	16	59	33	41	25	15	-4	62	40	71	35		
Nov	320	24	56	34	28	10	28	3	63	28	72	32		
Nov	321	36	58	29	12	4	38	12	55	27	63	31		
Nov	322	11	68	32	23	4	43	20	38	24	68	29		
Nov	323	10	46	32	40	21	42	21	42	22	41	25		
Nov	324	11	41	26	44	16	42	19	50	23	47	27		
Nov	325	16	56	20	51	14	42	22	53	28	52	32		
Nov	326	6	42	21	24	12	40	22	58	47	40	20		
Nov	327	13	50	31	17	2	33	13	51	30	37	17		
Nov	328	23	61	34	16	3	44	13	57	35	39	17		
Nov	329	20	57	33	43	10	54	27	53	29	39	20		
Nov	330	21	53	35	28	14	48	18	67	29	45	31		
Nov	331	19	35	11	25	14	46	22	62	29	40	26		
Nov	332	18	34	8	33	23	50	25	64	36	41	24		
Nov	333	19	51	22	42	22	54	24	51	39	49	24		
Nov	334	22	53	37	31	13	48	21	56	26	58	31		
Dec	335	42	60	24	40	16	42	24	61	33	61	29		
Dec	336	27	42	22	27	15	30	25	58	30	59	25		
Dec	337	25	42	24	26	5	36	13	54	29	49	25		
Dec	338	8	54	28	22	7	19	10	61	27	35	18		
Dec	339	6	46	17	45	7	27	4	31	26	40	15		
Dec	340	6	33	14	38	20	34	7	33	13	52	25		
Dec	341	10	43	14	35	19	35	8	34	13	47	23		
Dec	342	16	21	-14	45	18	39	8	44	16	41	16		
Dec	343	11	20	-12	54	15	24	14	45	23	27	12		
Dec	344	15	22	-1	50	22	25	17	49	15	40	21		
Dec	345	17	55	10	45	32	37	20	49	26	36	19		
Dec	346	17	51	18	43	18	43	15	47	24	37	22		
Dec	347	18	50	17	42	19	51	25	58	24	43	23		
Dec	348	25	45	25	35	18	60	29	61	28	47	19		
Dec	349	11	50	23	41	8	47	25	41	22	33	19		
Dec	350	16	42	26	22	4	49	19	40	24	44	27		

		Appendix A. Daily Maximum and Minimum Temps (deg F) for Deadwood, SD												
		sd220704		1943-1999		na=not available								
		Source - SDSU Climate Center (Bender, 2000a)												
Day of		1994	1995	1995	1996	1996	1997	1997	1998	1998	1999	1999		
Month	Yr	min	max	min	max	min	max	min	max	min	max	min		
Dec	351	28	32	23	1	-2	52	26	61	29	44	31		
Dec	352	27	32	20	1	-4	39	25	na	14	40	21		
Dec	353	28	40	15	24	-16	28	19	na	-5	42	17		
Dec	354	22	32	13	40	7	44	11	na	-9	17	6		
Dec	355	24	24	18	22	9	38	14	1	-18	20	15		
Dec	356	23	30	1	15	-9	38	15	16	-11	26	13		
Dec	357	25	27	8	6	-14	43	13	12	-6	30	28		
Dec	358	30	34	10	6	-12	28	17	28	-5	45	26		
Dec	359	32	51	18	1	-9	33	14	28	8	56	31		
Dec	360	27	43	18	25	-17	39	14	42	16	53	21		
Dec	361	26	46	14	48	-6	39	25	36	16	54	20		
Dec	362	27	42	13	39	9	31	22	45	21	49	35		
Dec	363	30	45	15	47	1	41	22	48	6	55	30		
Dec	364	18	43	15	53	8	35	22	40	7	62	22		
Dec	365	4	32	22	54	33	51	18	43	16	45	21		
29-Feb	366				12	-7								

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Jan	1	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.28	0.15
Jan	2	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Jan	3	0.14	0.04	0.14	0.00	0.00	0.00	0.36	0.17	0.00	0.00	0.20	0.00	0.00	0.00	0.04	0.00	0.00	0.00
Jan	4	0.00	0.12	0.00	0.00	0.00	0.06	1.99	0.00	0.08	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.12
Jan	5	0.00	0.00	0.00	0.00	0.00	0.04	0.97	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Jan	6	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	7	0.11	0.02	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	8	0.00	0.00	0.39	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.08	0.14	0.00	0.00	0.00	0.00	0.00
Jan	9	0.00	0.00	0.03	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.00	0.00
Jan	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	12	0.00	0.00	0.00	0.00	0.05	0.11	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00
Jan	13	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
Jan	14	0.32	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
Jan	15	0.51	0.00	0.31	0.01	0.04	0.00	0.03	0.00	0.04	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	16	0.31	0.00	0.00	0.00	0.00	0.13	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.10
Jan	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.26	0.03
Jan	18	0.00	0.00	0.00	0.00	0.00	0.27	0.23	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	19	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.12	0.00
Jan	20	0.00	0.00	0.22	0.01	0.27	0.00	0.11	0.00	0.00	0.00	0.09	0.02	0.04	0.00	0.00	0.00	0.00	0.00
Jan	21	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.06
Jan	22	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.16	0.19	0.76	0.00	0.07	0.00	0.00	0.08	0.00	0.00
Jan	23	0.00	0.00	0.00	0.26	0.00	0.24	0.04	0.26	0.00	0.02	0.00	0.00	0.16	0.00	0.00	0.00	0.03	0.00
Jan	24	0.00	0.00	0.00	0.03	0.00	0.18	0.08	0.03	0.03	0.00	0.00	0.00	0.16	0.20	0.04	0.00	0.00	0.00
Jan	25	0.00	0.23	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.03	0.00	0.00	0.18	0.00
Jan	26	0.00	0.00	0.00	0.12	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.13	0.60	0.00	0.00	0.00	0.00
Jan	27	0.00	2.39	0.00	0.00	0.33	0.04	0.00	0.00	0.08	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00
Jan	28	0.00	0.13	0.06	0.00	0.12	0.00	0.06	0.00	0.08	0.00	0.02	0.00	0.30	0.01	0.08	0.00	0.00	0.00
Jan	29	0.01	0.06	0.13	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	30	0.01	0.00	0.00	0.08	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.12	0.06	0.00
Jan	31	0.00	0.00	0.00	0.00	0.15	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Feb	32	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
Feb	34	0.10	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.27	0.00
Feb	35	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.09	0.00
Feb	36	0.01	0.15	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.30	0.19	0.00	0.02	0.00	0.00	0.00	0.12	0.00
Feb	37	0.00	0.00	0.15	0.00	0.04	0.00	0.00	0.00	0.16	0.00	0.00	0.01	0.16	0.00	0.00	0.01	0.00	0.14
Feb	38	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.04	0.00	0.00
Feb	39	0.00	0.00	0.00	0.10	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Feb	40	0.12	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.27	0.00	0.00	0.00	0.24	0.19
Feb	41	0.06	0.18	0.00	0.00	0.00	0.08	0.00	0.02	0.00	0.00	0.71	0.00	0.04	0.00	0.00	0.00	0.09	0.00
Feb	42	0.12	0.00	0.00	0.02	0.05	0.11	0.00	0.00	0.00	0.00	0.00	0.11	0.04	0.05	0.01	0.07	0.00	0.00
Feb	43	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Feb	44	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.00	0.00	0.00	0.13	0.00	0.00	0.12	0.00
Feb	45	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.18	0.00	0.00	0.10	0.00	0.00	0.27	0.09
Feb	46	0.01	0.08	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.03	0.00	0.00	0.00
Feb	47	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.33	0.00	0.00	0.02	0.00	0.00	0.00	0.45
Feb	48	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.27	0.31
Feb	49	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
Feb	50	0.00	0.00	0.07	0.00	0.07	0.12	0.00	0.00	0.00	0.06	0.53	0.03	0.25	0.00	0.00	0.00	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Feb	51	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.07	0.32	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Feb	52	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.03	0.04	0.00	0.11	0.00	0.00	0.19
Feb	53	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.02	0.00	0.01	0.00	0.10	0.03	0.00	0.00	0.00	0.00	0.00
Feb	54	0.32	0.00	0.00	0.00	0.16	0.32	0.00	0.10	0.00	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.00	0.00
Feb	55	0.00	0.00	0.00	0.00	0.00	0.50	0.18	0.03	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
Feb	56	0.02	0.00	0.13	0.04	0.03	0.00	0.00	na	0.00	0.00	0.00	0.53	0.00	0.00	0.10	0.00	0.00	0.00
Feb	57	0.03	0.00	0.00	1.23	0.04	0.00	0.00	na	0.00	0.00	0.00	0.45	0.05	0.00	0.00	1.74	0.00	0.00
Feb	58	0.00	0.02	0.00	0.05	0.00	0.09	0.00	na	0.00	0.00	0.39	0.58	0.00	0.01	0.05	0.09	0.06	0.00
Feb	59	0.20	0.00	0.00	0.00	0.00	0.11	0.00	na	0.24	0.12	0.00	0.03	0.00	0.00	0.02	0.24	0.00	0.00
Mar	60	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.17	0.15	0.00	0.00	0.00	0.17	0.00	0.00
Mar	61	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.25	0.15	0.00	0.02	0.00	0.00	0.11	0.00
Mar	62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Mar	63	0.04	0.00	0.00	0.22	0.16	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.13	0.16	0.00	0.00	0.04	0.00
Mar	64	0.09	0.00	0.13	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.02	0.00	0.11	0.00	0.01	0.00
Mar	65	0.00	0.70	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00
Mar	66	0.00	0.12	0.00	0.74	0.00	0.00	0.00	0.33	0.00	0.00	0.01	0.00	0.04	0.06	0.00	0.00	0.00	0.00
Mar	67	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.10	0.00	0.00	0.00
Mar	68	0.37	0.00	0.00	0.14	0.00	0.04	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	69	0.00	0.00	0.00	0.00	0.04	0.08	0.09	0.17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.08	0.24	0.00
Mar	70	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.05	0.07	0.42	0.23	0.01	0.00	0.29
Mar	71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.11	0.00	0.00	0.00	0.00
Mar	72	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.17	0.00	0.94	0.00	0.00	0.03	0.00	0.00	0.05
Mar	73	0.00	0.19	0.00	0.00	0.23	0.00	0.23	0.00	0.10	0.29	0.27	0.00	0.00	0.00	0.12	0.00	0.19	0.00
Mar	74	0.57	0.08	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.10	0.00	0.00	0.03	0.01
Mar	75	0.11	0.00	0.45	0.57	0.00	0.00	0.09	0.00	0.00	0.03	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00
Mar	76	0.00	0.06	0.59	0.19	0.43	0.02	0.27	0.00	0.02	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.31
Mar	77	0.07	0.20	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.09	0.00	0.00	0.01	0.29	0.00	0.00	0.47
Mar	78	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.04	0.03	0.00	0.00	1.53	0.05	0.00	0.00	0.00	0.00	0.00
Mar	79	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00
Mar	80	0.00	0.00	0.00	0.54	0.00	0.02	0.05	0.51	0.00	0.44	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.00
Mar	81	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.15	0.00	0.00	0.56	0.00	0.00	0.00
Mar	82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.63	0.08	0.00	0.00	0.17	0.00	0.14	0.00	0.00	0.00
Mar	83	0.00	0.25	0.21	0.00	0.28	0.00	0.13	0.00	0.00	0.05	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00
Mar	84	0.00	0.00	0.00	0.23	0.14	0.00	0.19	0.00	0.00	0.52	0.00	0.27	0.05	0.00	0.00	0.00	0.00	0.00
Mar	85	0.00	0.00	1.50	0.00	0.18	0.00	0.00	0.26	0.00	0.13	0.00	0.04	0.07	0.00	0.10	0.09	0.00	0.00
Mar	86	0.00	0.00	0.02	0.00	0.02	0.00	0.00	1.51	0.24	0.06	0.00	0.10	0.00	0.00	0.00	0.12	0.00	0.00
Mar	87	0.00	0.22	0.19	0.00	0.00	0.04	0.00	0.61	0.05	0.00	0.00	0.37	0.00	0.16	0.06	0.00	0.00	0.00
Mar	88	0.00	0.07	0.10	0.01	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.04	0.00	0.22	0.00	0.00	0.00	0.00
Mar	89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.14	0.00	0.00	0.00	0.55
Mar	90	0.00	0.18	0.00	0.00	0.24	0.03	0.00	0.06	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.06	0.00
Apr	91	0.00	0.15	0.00	0.00	0.16	0.15	0.00	0.00	0.00	0.18	0.19	0.00	0.00	0.00	0.00	1.47	0.05	0.41
Apr	92	0.00	0.23	0.95	0.00	0.00	0.03	0.00	0.17	0.00	0.11	0.24	0.00	0.00	0.00	0.03	0.00	0.35	0.20
Apr	93	0.00	0.20	0.24	1.09	0.10	0.00	0.00	0.02	0.00	0.00	0.04	0.00	0.00	0.19	0.35	0.00	0.00	0.00
Apr	94	0.00	0.00	0.02	0.17	0.58	0.00	0.00	0.03	0.00	0.00	0.00	0.00	1.35	0.70	0.44	0.00	0.00	0.00
Apr	95	0.00	0.00	0.00	0.00	0.06	0.24	0.00	0.15	0.03	0.22	0.00	0.00	2.15	0.00	0.00	1.50	0.00	0.00
Apr	96	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.08	0.00	0.17	0.00	0.15	0.00	0.28	0.50	0.00	0.00
Apr	97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.01	0.00	0.50	0.00	0.00	0.00	0.00
Apr	98	0.00	0.10	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.05	0.05	0.00	0.05	0.00
Apr	99	1.15	0.00	0.00	0.00	0.00	0.00	0.64	0.08	0.00	0.05	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	100	0.68	0.00	0.11	0.97	0.00	0.00	0.21	1.38	0.05	0.00	0.03	0.06	0.00	0.00	0.27	0.00	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Apr	101	0.22	0.00	0.42	0.29	0.04	0.00	0.00	0.00	0.13	0.00	0.04	0.00	0.12	0.00	0.06	0.05	0.00	0.00
Apr	102	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00
Apr	103	0.05	0.00	0.25	0.00	0.00	0.05	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
Apr	104	0.00	0.00	0.00	0.09	0.00	0.00	0.37	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	105	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.02	0.00	1.14	0.75	0.00	0.00	0.00	0.00	0.16	0.00
Apr	106	0.00	0.32	0.16	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.05	0.00	0.00	0.00	0.32	0.20
Apr	107	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.15	0.00	0.00	0.56
Apr	108	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.13	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.05
Apr	109	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.18	0.00	0.00	0.06	0.15	0.24	0.00
Apr	110	0.00	0.00	0.00	0.18	0.00	1.08	0.00	0.00	0.09	0.00	0.00	0.00	0.10	0.00	0.07	0.13	0.00	0.00
Apr	111	0.00	0.00	0.00	0.00	0.16	0.29	0.11	0.00	0.09	0.00	0.00	0.04	0.00	0.00	0.00	0.19	0.00	0.00
Apr	112	0.05	0.00	0.00	0.07	0.50	0.00	0.17	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.17	0.19	0.00	0.00
Apr	113	0.00	0.36	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.12	0.27	0.21	0.00	0.00
Apr	114	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.23	0.00	0.00	0.39	0.00	0.00	0.07	0.01	0.00	0.00	0.00
Apr	115	0.00	0.00	0.10	0.00	0.00	0.24	0.00	0.31	0.09	0.00	0.74	0.00	0.04	0.00	0.04	0.08	0.00	0.05
Apr	116	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.18	0.15	0.00	0.00	0.02
Apr	117	0.01	0.00	0.00	0.00	0.00	1.19	0.00	0.05	0.12	0.00	0.00	0.00	0.00	0.00	0.30	0.85	0.11	0.10
Apr	118	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.06	0.00	0.00	0.00	0.00	0.15	0.04	0.01	0.22	0.00	0.00
Apr	119	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.30	0.04	0.00	0.08	0.00	0.00	0.00	0.44
Apr	120	0.15	0.00	0.00	0.00	0.27	0.00	0.06	0.03	0.01	0.00	1.03	0.00	0.00	0.06	0.00	0.00	0.00	0.35
May	121	0.00	0.74	0.00	2.34	0.05	0.06	1.34	0.00	0.04	0.00	0.44	0.08	0.00	0.00	0.00	0.00	0.00	0.00
May	122	0.00	0.00	0.00	4.42	0.00	0.00	0.00	0.03	0.43	0.01	1.08	0.32	0.00	0.00	0.03	0.00	0.00	0.00
May	123	0.00	0.20	0.00	0.19	0.00	0.60	0.00	0.09	0.00	0.00	1.03	0.04	0.50	0.00	0.00	0.00	0.00	0.00
May	124	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.47	0.00	0.06	0.78	0.04	0.00	0.26	0.01
May	125	0.37	0.48	0.00	0.00	0.11	0.00	0.69	0.39	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00
May	126	0.00	0.20	0.00	0.12	0.00	0.26	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.45
May	127	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.08	0.00	0.00
May	128	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.14	0.00	0.00	0.00	0.05	0.06	0.00	0.00	0.00
May	129	0.00	0.01	0.11	0.25	0.00	0.27	0.00	0.00	0.64	0.05	0.00	0.00	0.17	0.00	0.10	0.00	0.00	0.00
May	130	0.00	0.00	0.00	0.20	0.00	0.41	0.00	0.02	0.04	0.42	0.00	0.00	0.00	0.00	0.01	0.00	0.38	0.00
May	131	0.29	0.00	0.01	0.03	0.00	0.05	0.00	0.00	0.00	0.24	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	132	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.02	0.20	0.00	0.00	0.00
May	133	0.00	0.00	0.09	0.00	0.02	0.00	0.00	0.27	0.18	0.00	0.02	0.00	0.00	0.00	0.40	0.00	0.00	0.00
May	134	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.09	0.25	0.00	1.01	1.25	0.00	0.00	0.00
May	135	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.01	0.00	0.27	0.00	0.00	0.00	0.18	0.61	0.00	0.00	0.00
May	136	0.00	0.00	0.00	0.54	0.00	0.00	0.01	0.66	0.04	0.54	0.00	0.00	0.06	0.05	0.22	0.00	0.00	0.00
May	137	0.00	0.00	0.00	0.25	0.03	0.00	0.21	0.00	0.00	0.37	0.11	0.23	1.05	0.00	0.37	0.00	0.03	0.00
May	138	0.00	0.07	0.47	0.03	0.22	0.00	na	0.00	0.00	0.12	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.00
May	139	0.03	0.01	0.02	0.44	0.02	0.17	0.00	0.16	0.11	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
May	140	0.00	0.30	0.00	0.54	0.49	0.00	0.00	0.01	0.55	0.07	0.00	0.00	0.00	0.00	0.49	1.17	0.81	0.02
May	141	0.00	0.05	2.31	0.00	0.06	0.00	0.08	0.00	0.13	0.09	0.40	0.00	0.00	0.00	0.85	0.00	0.01	0.00
May	142	0.00	0.00	0.03	0.00	0.12	0.00	0.00	0.00	0.00	0.08	0.49	0.18	0.06	0.13	0.21	0.05	0.00	0.00
May	143	0.30	0.08	0.00	0.81	0.04	0.00	1.01	0.00	0.00	3.38	0.00	1.73	0.08	0.04	0.14	0.00	0.00	0.00
May	144	0.03	0.02	0.00	2.47	0.08	0.02	0.06	0.12	0.00	2.68	0.00	0.07	0.04	0.00	0.16	0.00	0.00	0.00
May	145	0.00	0.58	0.13	0.00	0.00	0.00	0.00	0.31	0.00	0.01	0.00	0.00	0.05	0.00	1.55	0.42	0.00	0.44
May	146	0.00	0.14	0.00	0.00	0.00	0.05	0.00	0.00	0.11	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.16
May	147	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.03	0.24	0.00	0.00	0.05	0.24	0.00
May	148	0.00	0.00	0.33	0.04	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.48	0.89	0.18	0.09	0.00	0.00	0.00
May	149	0.12	0.01	0.72	0.00	0.00	0.04	0.00	0.24	0.00	0.00	0.75	0.64	0.04	1.70	0.07	0.00	0.25	0.00
May	150	0.26	0.22	0.00	2.72	0.00	0.00	0.02	0.10	0.00	0.00	0.00	0.00	0.00	0.55	0.39	0.42	0.66	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
May	151	0.03	0.01	0.21	3.20	0.00	0.00	0.00	0.00	0.37	0.42	0.00	1.11	0.00	0.28	0.00	0.43	0.24	0.00
June	152	0.18	0.00	0.20	0.35	0.34	0.00	0.67	0.00	0.84	0.04	0.00	0.00	0.15	0.04	0.00	0.07	0.00	0.00
June	153	0.02	0.00	0.73	0.10	0.00	0.00	0.92	0.11	1.88	0.00	0.00	0.20	0.22	0.00	0.00	0.00	0.00	0.00
June	154	0.23	0.06	0.00	0.00	0.10	0.00	0.02	0.00	0.08	0.01	0.00	0.85	0.70	0.00	0.00	0.28	0.04	0.00
June	155	0.05	0.61	0.02	0.00	0.02	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
June	156	0.00	0.90	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.10	0.00	0.00	0.00	0.00	0.00
June	157	0.82	1.28	0.35	0.00	0.01	0.00	0.00	0.00	0.27	0.00	0.19	0.91	0.28	0.60	0.00	0.00	0.00	0.10
June	158	0.06	0.13	0.03	0.00	0.03	0.98	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00
June	159	0.64	0.00	0.32	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.02	0.03	0.00	0.18	0.00	0.00	0.00	0.00
June	160	0.13	0.95	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.23	0.00	1.57	0.00	0.00	0.00	0.00	0.12
June	161	0.25	0.10	0.00	0.00	1.32	0.00	0.00	0.00	0.14	0.00	0.00	0.06	1.39	0.00	0.37	0.40	0.00	0.28
June	162	0.41	0.04	0.26	1.83	0.43	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.35	0.00	0.22	0.00	0.00	0.00
June	163	0.02	0.02	0.49	1.00	0.00	0.04	0.00	0.00	0.05	0.00	0.00	0.04	0.00	0.07	0.03	0.33	0.00	0.47
June	164	0.11	0.02	0.82	0.34	0.00	0.37	0.27	0.00	0.02	0.00	0.20	0.00	0.00	0.00	0.48	0.59	0.00	0.71
June	165	0.10	0.00	0.44	0.00	0.00	0.00	0.30	0.02	0.30	0.00	0.00	0.06	0.13	0.00	0.03	0.21	0.00	0.00
June	166	0.56	0.00	0.23	0.00	0.00	0.02	0.00	0.23	0.10	0.00	1.54	0.00	0.00	0.41	0.00	0.00	0.00	0.00
June	167	0.20	0.13	0.00	0.00	0.18	1.24	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.00	0.69	0.16	0.53	0.46
June	168	0.00	0.24	0.00	0.46	0.09	0.04	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.38	0.45	0.00	0.16	0.00
June	169	0.00	0.42	0.60	1.89	0.23	0.49	0.00	0.06	0.31	0.00	0.00	0.05	0.12	0.00	0.00	0.27	0.00	0.51
June	170	0.00	0.66	0.01	1.01	0.03	0.87	0.12	0.42	0.56	0.00	0.17	0.00	0.06	0.38	0.00	0.00	0.00	0.00
June	171	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.04	0.00	1.66	0.66	0.00	0.00	0.00	0.21	0.00	0.15
June	172	0.00	0.00	0.00	0.00	2.37	0.02	0.11	0.00	0.04	0.06	0.00	0.86	0.00	0.00	0.72	0.03	0.00	0.10
June	173	0.00	0.22	0.00	0.00	1.32	0.02	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.03	0.55	0.00	0.04	0.00
June	174	0.00	0.00	0.00	0.00	2.34	0.91	0.00	0.11	0.31	0.00	0.00	0.00	0.00	0.00	0.15	0.18	0.00	0.00
June	175	0.00	0.00	0.72	0.00	0.01	0.43	0.03	0.03	0.09	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.00
June	176	0.70	0.00	0.00	0.27	0.25	0.00	0.00	0.16	0.00	0.03	0.01	0.10	0.00	0.00	0.00	0.00	0.12	0.00
June	177	0.18	0.00	0.10	0.00	0.00	0.43	0.00	0.00	0.05	0.55	0.00	0.04	0.00	0.55	0.01	0.00	0.80	0.00
June	178	0.62	0.00	0.00	0.29	0.00	0.19	0.00	0.00	0.01	0.40	0.12	0.00	0.04	0.02	0.12	0.00	0.34	0.00
June	179	0.00	0.42	0.38	0.00	0.17	0.00	0.00	0.00	0.00	0.21	0.26	0.01	0.30	0.00	0.00	0.00	0.53	0.02
June	180	0.00	0.18	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.07
June	181	0.00	0.00	0.03	0.17	0.46	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01
July	182	0.05	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.70
July	183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.23	0.00	0.11	0.00	4.10	0.00	0.00
July	184	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.72	0.41	0.00	0.00	0.00	0.06	0.00	0.08	0.11	0.02	0.00
July	185	0.30	0.09	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	2.03	0.00	0.00
July	186	0.00	0.00	0.00	0.46	0.09	0.10	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.11	0.00	0.23
July	187	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.01	0.00
July	188	0.00	0.02	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.01	0.00	0.00	0.00
July	189	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.23	0.00	0.05	0.00	0.00	0.00	0.58	0.00	0.00	0.17	0.71
July	190	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.02	0.00	0.22
July	191	0.00	0.00	0.03	0.00	0.08	0.00	0.08	0.00	0.83	0.00	0.00	0.00	0.14	0.00	0.00	0.44	0.00	0.00
July	192	0.00	1.02	0.00	0.00	0.00	0.23	0.00	0.08	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	193	0.00	0.17	0.17	0.00	0.00	0.41	0.00	0.03	0.19	0.26	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
July	194	0.08	0.00	0.62	0.00	0.00	0.67	0.06	0.00	0.01	0.65	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.09
July	195	0.00	0.00	0.00	0.18	0.00	0.32	0.00	0.00	0.00	2.29	0.00	0.00	0.00	0.00	1.10	0.03	0.02	0.00
July	196	0.00	0.00	0.00	0.00	0.00	0.44	0.20	0.00	0.00	0.63	0.00	0.00	0.00	0.04	0.00	0.26	0.49	0.00
July	197	0.39	0.00	0.00	0.00	0.00	1.19	0.00	0.26	0.01	0.00	0.01	1.78	0.00	0.00	0.00	0.05	0.00	0.07
July	198	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.56	0.00	0.00	0.30	0.00	0.00	0.18	0.00	0.00	0.00	0.21
July	199	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.23	0.82	0.35	0.00	0.00
July	200	0.00	0.01	0.08	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.06	0.00	0.02	0.06	0.48	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
July	201	0.00	0.00	0.03	0.00	0.37	0.00	0.04	0.05	0.00	0.00	0.03	0.12	0.00	0.00	0.20	0.01	0.00	0.00
July	202	0.00	0.00	0.07	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00
July	203	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.06	0.00	0.00	0.03	0.07	0.00	0.00	0.00	0.00	0.00
July	204	0.20	0.34	0.00	0.07	0.11	0.00	0.00	0.00	0.26	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
July	205	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.23	0.00	0.28	0.00	0.00	0.00
July	206	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.02	0.00	0.00	0.00	0.00	0.04
July	207	0.00	0.02	0.84	0.00	0.00	0.37	0.01	0.00	0.09	0.00	0.01	0.00	0.21	0.08	0.00	0.00	0.00	0.00
July	208	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00
July	209	0.02	0.11	0.00	0.09	0.00	0.00	0.14	0.00	0.03	0.00	0.40	0.04	0.00	0.00	0.18	0.34	0.00	0.00
July	210	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.23	0.00	0.00	0.00	0.01	0.04	0.12	0.00	0.00	0.00
July	211	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00
July	212	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
Aug	213	0.00	0.06	0.00	0.03	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.53	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Aug	215	0.05	0.00	0.05	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.68	0.00	0.00	0.00	0.26	0.00	0.00	0.00
Aug	216	0.00	0.26	0.37	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.20	0.03	0.00	0.04	0.00	0.00	0.00	0.00
Aug	217	0.00	0.30	0.03	0.00	0.04	0.00	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.03	0.00
Aug	218	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.20
Aug	219	0.00	0.25	0.62	0.00	0.00	0.03	0.00	0.00	0.02	0.05	0.00	0.00	0.15	0.00	0.00	0.27	0.00	0.64
Aug	220	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.43	0.09	0.00	0.00
Aug	221	0.00	0.00	0.75	0.00	0.00	0.06	0.00	0.06	0.05	0.02	0.00	0.06	0.00	0.07	0.00	0.00	0.00	0.32
Aug	222	0.00	0.00	0.00	0.00	0.22	0.01	0.00	0.03	0.02	0.00	0.00	0.00	0.40	0.10	0.00	0.00	0.00	0.00
Aug	223	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.19	0.00	0.20	0.25	0.24	0.00	0.05	0.00	0.00	0.00	0.00
Aug	224	0.00	0.00	0.00	0.18	0.00	0.08	0.00	0.05	0.64	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	225	0.00	0.00	0.17	0.00	0.00	0.13	0.00	1.08	0.00	0.00	0.00	0.90	0.00	0.06	0.10	0.00	0.01	0.00
Aug	226	0.00	0.00	0.02	0.23	0.00	0.25	0.00	0.00	1.01	0.11	0.00	0.20	0.18	0.00	0.00	0.00	0.00	0.00
Aug	227	0.00	0.00	0.00	0.00	0.00	0.24	0.14	0.00	0.42	0.36	0.40	0.00	0.31	0.00	0.08	0.00	0.00	0.00
Aug	228	0.00	0.02	0.00	0.00	0.00	0.00	0.61	0.00	0.02	0.06	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Aug	229	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.01	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.70
Aug	230	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.41	0.00	0.00	0.00	0.38
Aug	231	0.18	0.00	0.00	0.00	0.08	0.00	0.00	0.05	0.00	0.26	0.00	0.00	0.40	0.40	0.00	0.00	0.00	0.00
Aug	232	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.08	0.00	0.50	0.00	0.00
Aug	233	0.00	0.11	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.22	0.00	0.00	0.00	0.00
Aug	234	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
Aug	235	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	236	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	237	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Aug	238	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	239	0.00	0.00	0.00	0.21	0.03	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.02	0.00	0.13	0.00	0.00	0.00
Aug	240	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00
Aug	241	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	242	0.00	0.41	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.18	0.16	0.00
Aug	243	0.10	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Sept	244	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.62	0.31	0.00	0.00	0.00
Sept	245	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	246	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.01	0.33	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Sept	247	0.00	0.00	0.00	0.00	0.16	0.00	0.50	0.00	0.55	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	248	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	249	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.00	0.29	0.00	0.01	0.00	0.00
Sept	250	0.10	0.00	0.44	0.55	0.00	0.35	0.02	0.00	0.18	0.00	0.00	0.00	0.00	0.12	0.00	0.03	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Sept	251	0.00	0.00	0.22	1.77	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.20
Sept	252	0.00	0.00	0.00	0.10	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Sept	253	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Sept	254	0.00	0.29	0.00	0.00	0.36	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	255	0.00	0.00	1.99	0.00	0.00	0.00	0.32	0.10	0.26	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Sept	256	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.05	0.00	0.24	0.00	0.00	0.00	0.00
Sept	257	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
Sept	258	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Sept	259	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.02
Sept	260	0.00	0.00	0.27	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02
Sept	261	0.00	0.00	0.38	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.14
Sept	262	0.00	0.00	0.54	0.55	0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00
Sept	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.06	0.02	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Sept	264	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.62	0.26	0.03	0.00	0.00	1.63	0.00	0.59	0.00	0.00	0.00
Sept	265	0.02	0.00	0.00	0.85	0.00	0.03	0.00	0.00	0.04	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00
Sept	266	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
Sept	267	0.00	0.02	0.30	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.01	0.00	0.27	0.00	0.00	0.00	0.10	0.00
Sept	268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.83	0.00
Sept	269	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	270	0.00	0.00	0.50	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Sept	271	0.00	0.05	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Sept	272	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.01	0.12	0.00	0.00	0.00	0.04	0.00
Sept	273	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.14	0.00	0.00	0.00	0.11	0.00	0.38	0.00	0.00	0.00	0.00
Oct	274	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.22	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00
Oct	275	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.42	0.08	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00
Oct	276	0.00	0.02	0.00	0.00	0.05	0.05	0.00	0.00	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	277	0.00	0.00	0.00	0.04	0.00	0.00	0.05	0.00	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	278	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Oct	279	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.75	0.00	0.00	0.00	0.00	0.00
Oct	280	0.00	0.00	0.00	0.16	0.00	0.23	0.00	0.30	0.00	0.00	0.00	0.00	0.07	0.00	0.10	0.00	0.00	0.00
Oct	281	0.00	0.00	0.00	0.24	0.00	0.03	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	282	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00
Oct	283	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Oct	284	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	285	0.75	0.00	0.00	0.09	1.41	0.00	0.00	0.00	0.06	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00
Oct	286	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Oct	287	0.02	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Oct	288	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.16	0.50	0.00	0.00	0.00
Oct	289	0.00	0.00	0.00	0.03	0.15	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	290	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	291	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Oct	292	0.00	0.00	0.04	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Oct	293	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00
Oct	294	0.00	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.16	0.00	0.00	0.00	0.02	0.00	0.00	1.10	0.00	0.00
Oct	295	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	296	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.34	0.00	0.00	0.00	0.00	0.00
Oct	297	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	298	0.00	0.00	0.74	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.07	0.32	0.00	0.00	1.00	0.00	0.29	0.00
Oct	299	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.85	0.00	0.88	0.00	0.00	0.37	0.00
Oct	300	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.16	0.00	0.00	0.00	0.00	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Oct	301	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00
Oct	302	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.00	0.00	0.00	0.00	0.00
Oct	303	0.54	0.00	0.00	0.11	0.00	0.01	0.03	0.00	0.22	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.01	0.33
Oct	304	0.32	0.00	0.00	0.00	0.25	0.96	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.10	0.00	0.00	0.00	0.35
Nov	305	0.08	0.00	0.16	0.00	0.00	0.00	0.00	0.13	0.11	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Nov	306	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.16	0.03	0.00	0.00	0.00	0.00	0.01	0.36	0.00	0.00	0.00
Nov	307	0.00	0.48	0.04	0.21	0.00	0.00	0.00	0.46	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	308	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	2.30	0.09	0.01	0.80	0.10
Nov	309	0.09	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.14	0.00	0.00	0.00	0.25	0.02	0.00	0.15	0.10	0.16
Nov	310	0.99	0.00	0.00	0.00	0.38	2.11	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	311	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.71	0.00	0.00	0.14	0.05	0.00	0.00	0.00
Nov	312	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.01
Nov	313	0.14	1.31	0.02	0.16	0.00	0.03	0.00	0.07	0.00	0.00	0.00	0.00	0.04	0.15	0.00	0.00	0.00	0.00
Nov	314	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.01	0.00	0.00	0.30	0.00	0.00	0.00	0.29	0.04
Nov	315	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.03	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.05	0.00
Nov	316	0.00	0.00	0.00	0.00	0.30	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.39	0.00
Nov	317	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Nov	318	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00
Nov	319	0.00	2.64	0.00	0.00	0.13	0.00	0.04	0.01	0.01	0.00	0.00	0.00	0.02	0.85	0.60	0.00	0.08	0.00
Nov	320	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.70	0.00	0.17	0.06	0.13
Nov	321	0.00	0.00	0.00	0.00	0.11	0.15	0.00	0.00	0.30	0.84	0.00	0.23	0.00	0.00	0.00	0.75	0.00	0.00
Nov	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	323	0.00	0.00	0.00	0.00	0.28	0.45	0.00	0.02	0.00	0.32	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	324	0.00	0.00	0.00	0.00	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
Nov	325	0.00	0.00	0.04	0.02	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00
Nov	326	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	0.12	0.13	0.00	0.00	0.06	0.08	0.00	0.00	0.31	0.00
Nov	327	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.70	0.00
Nov	328	0.00	0.00	0.00	0.08	0.17	0.47	0.36	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Nov	329	0.10	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.18	0.00
Nov	330	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.12	0.00	0.00	0.00	0.00	0.15	0.00
Nov	331	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.10	0.00	0.00	0.00	0.15	0.00
Nov	332	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.22	0.35	0.00	0.00	0.30	0.00	0.00	0.06
Nov	333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.17	0.00	0.20	0.25	0.00	0.00	0.37
Nov	334	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
Dec	335	0.00	0.00	0.24	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Dec	336	0.00	0.00	0.00	0.00	0.05	0.06	0.00	0.06	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	337	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.21	0.00	0.00	0.00	0.00	0.00
Dec	338	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.00	0.00	0.18	0.00	0.00	0.16	0.21	0.00
Dec	339	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.06	0.00	0.14	0.10	0.03	0.00	0.00	0.00	0.00	0.00	0.53
Dec	340	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	1.15
Dec	341	0.00	0.00	0.00	0.05	0.04	0.00	0.00	0.00	1.18	0.00	0.01	0.00	0.04	0.24	0.00	0.00	0.00	0.00
Dec	342	0.00	0.00	0.17	0.00	0.02	0.00	0.00	0.06	0.26	0.00	0.00	0.15	0.07	0.00	0.00	0.00	0.00	0.00
Dec	343	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	344	0.00	0.15	0.00	0.01	0.00	0.05	0.00	0.00	0.05	0.07	0.00	0.00	0.18	0.00	0.10	0.00	0.00	0.00
Dec	345	0.00	0.12	0.00	0.00	0.00	0.00	0.35	0.00	0.09	0.00	0.02	0.00	0.02	0.00	0.00	0.20	0.00	0.00
Dec	346	0.00	0.00	0.00	0.11	0.05	0.04	0.14	0.00	0.47	0.03	0.02	0.00	0.00	0.17	0.00	0.00	0.00	0.00
Dec	347	0.00	0.00	0.04	0.12	0.00	0.00	na	0.00	0.05	0.00	0.35	0.00	0.10	0.04	0.00	0.11	0.00	0.00
Dec	348	0.18	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
Dec	349	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	350	0.00	0.00	0.00	0.25	0.02	0.07	0.00	0.00	0.03	0.00	0.01	0.75	0.00	0.00	0.00	0.00	0.00	0.02

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Dec	351	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00
Dec	352	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.05	0.05	0.07	0.00	0.00	0.00	0.00
Dec	353	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02
Dec	354	0.00	0.00	0.00	0.14	0.00	0.00	0.13	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
Dec	355	0.00	0.20	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.42
Dec	356	0.00	0.20	0.00	0.00	0.00	0.08	0.10	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.14
Dec	357	0.00	0.10	0.00	0.00	0.00	0.00	0.22	0.00	0.16	0.22	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
Dec	358	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.11
Dec	359	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
Dec	360	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.09	0.00
Dec	361	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.55	0.00
Dec	362	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.50	0.00	0.00	0.00	0.00	0.01
Dec	363	0.00	0.00	0.22	0.02	0.00	0.00	0.00	0.03	0.13	0.00	0.08	0.00	0.03	0.06	0.00	0.00	0.06	0.00
Dec	364	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	365	0.00	0.30	0.01	0.00	0.00	0.09	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
29-Feb	366		0.00				0.12				0.00				0.00				0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Jan	1	0.07	0.00	0.00	0.00	0.00	0.04	0.28	0.09	0.00	0.87	0.22	0.00	0.00	0.00	0.00	0.52	0.00	0.02
Jan	2	0.00	0.00	0.00	0.18	0.00	0.00	0.30	0.27	0.08	0.08	0.03	0.11	0.00	0.02	0.06	0.19	0.01	0.00
Jan	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.00	0.04	0.10	0.00	0.00	0.02	0.00	0.00
Jan	4	0.00	0.03	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.24	0.00	0.03	0.00	0.00	0.01	0.11	0.00
Jan	5	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.22	0.18	0.00	0.10	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Jan	6	0.00	0.15	0.00	0.00	0.00	0.20	0.00	0.24	0.33	0.00	0.03	0.00	0.00	0.00	0.00	0.15	0.09	0.00
Jan	7	0.00	0.08	0.00	0.05	0.00	0.00	0.07	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.50	0.04	0.04	0.07
Jan	8	0.00	0.42	0.00	0.10	0.00	0.00	0.00	0.04	0.24	0.00	0.17	0.11	0.00	0.02	0.00	0.01	0.04	0.00
Jan	9	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.47	0.00	0.07	0.15
Jan	10	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.15	0.29	0.04	0.00
Jan	11	0.00	0.00	0.07	0.13	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01
Jan	12	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.01	0.03
Jan	13	0.00	0.21	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Jan	14	0.02	0.08	0.10	0.00	0.25	0.00	0.14	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.20	0.00	0.13	0.00
Jan	15	0.00	0.00	0.05	0.00	0.15	0.16	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.30	0.31	0.29	0.01
Jan	16	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00
Jan	17	0.00	0.00	0.10	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.35	0.00
Jan	18	0.01	0.05	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.04	0.00	0.20	0.57	0.14	0.02	0.02
Jan	19	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	20	0.00	0.11	0.41	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.20	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Jan	21	0.00	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.16	0.00	0.57	0.08	0.00	0.00	0.00
Jan	22	0.00	0.00	0.34	0.00	0.16	0.00	0.00	0.00	0.01	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	23	0.00	0.00	0.08	0.06	0.24	0.05	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Jan	24	0.00	0.00	0.00	0.12	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Jan	25	0.01	0.00	0.06	0.00	0.07	0.00	0.00	0.02	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.04	0.17	0.12
Jan	26	0.02	0.00	0.00	0.15	0.14	0.00	0.00	0.11	0.00	0.09	0.13	0.00	0.09	0.00	0.13	0.00	0.38	0.05
Jan	27	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.03	0.00	0.10	0.00	0.34	0.04
Jan	28	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.65	0.00	0.02	0.00	0.00	0.38	0.00	0.05	0.05
Jan	29	0.00	0.00	0.12	0.00	0.15	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.08	0.00
Jan	30	0.00	0.00	0.04	0.02	0.03	0.00	0.39	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Jan	31	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.03	0.00	0.31	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Feb	32	0.27	na	0.09	0.00	0.00	0.00	0.14	0.00	0.02	0.04	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.09
Feb	33	0.27	na	0.00	0.03	0.00	0.04	0.00	0.00	0.01	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Feb	34	0.06	na	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.12	0.03	0.00	0.16	0.00	0.12	0.00	0.00
Feb	35	0.11	na	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.20	0.00	0.03	0.00	0.00	0.00	0.07	0.00	0.00
Feb	36	0.00	na	0.00	0.02	0.00	0.00	0.34	0.00	0.00	0.00	0.22	0.00	0.00	0.36	0.03	0.30	0.00	0.00
Feb	37	0.00	na	0.00	0.22	0.04	0.00	0.19	0.00	0.00	0.00	0.02	0.00	0.08	0.00	0.00	0.01	0.00	0.00
Feb	38	0.00	na	0.00	0.15	0.15	0.00	0.43	0.00	0.20	0.04	0.00	0.03	0.00	0.28	0.10	0.00	0.00	0.24
Feb	39	0.00	na	0.00	0.22	0.00	0.12	0.00	0.00	0.00	0.00	0.30	0.12	0.00	0.01	0.07	0.00	0.00	0.03
Feb	40	0.00	na	0.33	0.12	0.01	0.63	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.08
Feb	41	0.00	na	1.29	0.18	0.03	0.05	0.09	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.06	0.50	0.00	0.00
Feb	42	0.00	na	0.00	0.08	0.05	0.00	0.01	0.16	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Feb	43	0.03	na	0.00	0.23	0.65	0.32	0.00	0.23	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.21
Feb	44	0.00	na	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.19	0.00	0.00	0.39	0.15	0.12
Feb	45	0.00	na	0.00	0.11	0.35	0.02	0.26	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.29	0.03
Feb	46	0.00	na	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.06	0.00
Feb	47	0.00	0.02	0.01	0.04	0.00	0.00	0.00	0.06	0.00	0.00	0.09	0.18	0.00	0.00	0.00	0.31	0.00	0.00
Feb	48	0.01	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
Feb	49	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.00
Feb	50	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.03	0.00	0.03	0.12	0.00	0.19	0.00	0.00	0.00	0.00	0.20

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Feb	51	0.00	0.07	0.26	0.25	0.05	0.00	0.00	0.24	0.08	0.00	0.20	0.00	0.07	0.14	0.00	0.00	0.00	0.10
Feb	52	0.00	0.03	0.22	0.08	0.00	0.00	0.17	0.00	0.11	0.00	0.03	0.13	0.00	0.00	1.13	0.00	0.00	0.00
Feb	53	0.20	0.07	0.32	0.21	0.02	0.00	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00
Feb	54	0.31	0.15	0.98	0.01	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.92	0.00
Feb	55	0.00	0.03	0.15	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.22	0.03
Feb	56	0.01	0.00	0.56	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Feb	57	0.00	0.03	0.00	0.02	0.00	0.00	0.10	0.00	0.10	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Feb	58	0.00	0.00	0.60	0.17	0.00	0.00	0.00	0.18	0.09	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	59	0.00	0.00	0.12	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.15	0.20
Mar	60	0.00	0.00	0.00	0.10	0.03	0.00	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.06	0.06	0.00	0.00
Mar	61	0.27	0.00	0.13	0.00	0.00	0.31	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.07	0.00
Mar	62	0.06	0.17	0.08	0.00	0.25	1.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.42	0.24	0.00
Mar	63	0.20	0.00	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00	0.00	0.21	0.00
Mar	64	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.14	0.00	0.00	0.16	0.04	0.05
Mar	65	0.00	0.00	0.33	0.20	0.00	0.00	0.28	0.00	0.00	0.00	0.14	0.00	0.06	0.08	0.26	0.00	0.00	0.05
Mar	66	0.00	0.00	0.09	0.45	0.00	0.00	0.40	0.00	0.10	0.00	0.00	0.11	0.00	0.09	0.00	0.00	0.00	0.00
Mar	67	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.02	0.00	0.00	0.00
Mar	68	0.00	0.00	0.01	0.00	0.40	0.00	0.00	0.06	0.16	0.20	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
Mar	69	0.00	0.07	0.00	0.00	0.25	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00
Mar	70	0.00	0.16	0.14	0.01	0.02	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.19	0.00	0.20	0.00
Mar	71	0.07	0.20	0.12	0.00	0.04	0.00	0.00	0.12	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
Mar	72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.05	0.11	0.18	0.13	0.04	0.00	0.25	0.00	0.11
Mar	73	0.00	0.00	0.00	0.00	0.03	0.00	0.18	0.00	0.00	0.00	0.25	0.00	4.44	0.13	0.00	0.00	0.00	0.00
Mar	74	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.05	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.06	0.00	0.09
Mar	75	0.00	0.00	1.28	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Mar	76	0.00	0.00	0.00	0.27	0.40	0.44	0.00	0.00	0.00	0.05	0.44	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Mar	77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.57	0.03	0.06	0.06	0.00	0.00	0.04	0.00
Mar	78	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.18	0.00	0.45	0.10	0.00	0.05	0.24	0.00	0.00	0.00	0.00
Mar	79	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.34	0.00
Mar	80	0.00	0.29	0.00	0.00	0.15	0.00	0.00	0.21	0.00	0.00	0.24	0.01	0.00	0.00	0.00	0.73	0.00	0.00
Mar	81	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.10	0.00	0.00	0.05	0.00	0.26	0.41	0.00	0.11	0.00	0.00
Mar	82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.00	0.13	0.02	0.56	0.00	0.00	0.15
Mar	83	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.62	0.10	0.00	0.00	0.95	0.00	0.17	0.01	0.00	0.02
Mar	84	0.00	0.00	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Mar	85	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.18	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.00
Mar	86	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.08	0.00	0.00	0.63	0.00	0.00	0.00
Mar	87	0.01	0.07	0.00	0.18	0.02	0.00	0.00	0.00	0.11	0.00	0.18	0.07	0.00	0.00	0.38	0.00	0.49	0.00
Mar	88	0.00	0.11	0.06	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01	2.32	0.00
Mar	89	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	1.76	0.00
Mar	90	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.03	0.00	0.02	0.00	0.00	0.00	0.00
Apr	91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Apr	92	0.00	0.00	0.09	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	93	0.00	0.00	0.48	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.11	0.16	0.31	0.05	0.00	0.09	0.00	0.13
Apr	94	0.71	0.00	0.00	0.34	0.01	0.34	0.00	0.35	0.00	0.00	0.09	0.06	0.00	0.01	0.00	0.00	0.74	0.00
Apr	95	0.00	0.19	0.00	0.00	0.05	0.14	0.03	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.23	0.00
Apr	96	0.06	1.10	0.00	0.18	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00
Apr	97	0.00	0.00	0.00	0.56	0.00	0.33	0.00	0.02	0.00	0.00	0.00	0.23	0.57	0.71	0.21	0.32	0.00	0.00
Apr	98	0.00	0.00	0.00	0.18	0.00	0.00	0.01	0.37	1.84	0.00	0.00	0.00	0.05	0.03	0.35	0.22	0.00	0.00
Apr	99	0.00	0.00	0.14	0.00	0.25	0.00	0.00	0.13	0.00	0.00	0.00	0.08	0.18	0.00	0.00	0.00	0.00	0.00
Apr	100	0.12	0.33	0.79	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Apr	101	0.47	0.00	0.00	0.00	0.87	0.29	0.00	0.00	0.00	1.13	0.00	0.00	0.00	1.48	0.00	0.06	0.00	0.42
Apr	102	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.22	0.00	0.00	1.03	0.00
Apr	103	0.00	0.00	0.00	0.36	0.00	0.00	0.75	0.00	0.00	1.28	0.00	0.53	0.00	0.78	0.00	0.00	0.00	0.00
Apr	104	0.60	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.53	0.00	0.00	0.35	0.00	0.10	0.00	0.00	0.00	0.00
Apr	105	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.11	0.40	0.00	0.16	0.00	0.06	0.00	0.32	0.00	0.00
Apr	106	0.00	0.00	0.06	0.00	0.01	0.69	0.28	0.00	0.21	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.04	0.00
Apr	107	0.00	0.00	0.00	0.00	0.10	0.22	0.00	0.03	0.00	0.00	0.05	0.00	0.00	0.00	0.20	2.78	0.00	0.22
Apr	108	0.00	0.00	0.18	0.00	0.00	0.37	0.00	0.00	0.00	1.03	0.05	0.00	0.00	0.00	0.00	0.68	0.13	2.54
Apr	109	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.28	1.02	0.09	1.32	0.01	0.13	0.00	0.39	0.26
Apr	110	0.24	0.00	0.00	0.34	0.10	0.00	0.22	0.00	0.00	0.38	0.73	0.27	1.13	0.38	0.05	0.04	0.00	0.00
Apr	111	0.00	0.00	0.15	0.18	0.01	0.00	0.07	0.00	0.00	0.30	0.39	0.03	0.29	0.38	0.43	0.00	0.00	0.00
Apr	112	0.01	0.00	0.33	0.42	0.00	0.00	0.00	0.14	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Apr	113	0.12	0.00	0.00	0.00	0.05	0.00	0.00	0.99	0.00	0.00	0.10	0.16	0.00	0.00	0.00	0.00	0.00	0.00
Apr	114	0.35	0.00	0.00	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.06	0.00	0.58	0.00	0.06	0.04	0.00	0.00
Apr	115	0.00	0.00	0.00	0.00	0.07	0.00	0.15	0.00	0.65	0.00	0.30	0.00	0.06	0.00	0.00	0.04	0.00	0.00
Apr	116	0.67	0.33	0.00	0.37	0.66	0.00	0.07	0.00	0.56	0.00	0.46	0.00	0.05	0.09	0.00	0.00	0.00	0.00
Apr	117	0.02	0.00	0.91	0.00	0.08	0.02	0.01	0.00	0.71	0.00	0.11	1.63	0.00	0.02	0.22	0.04	0.00	0.00
Apr	118	0.00	0.06	0.22	0.00	0.05	0.00	0.00	0.08	0.00	0.00	0.00	0.51	0.02	0.00	1.28	0.25	0.00	1.05
Apr	119	0.00	0.00	2.47	0.00	0.00	0.07	0.04	0.00	0.00	0.00	0.06	0.02	0.91	0.00	1.21	0.02	0.00	1.51
Apr	120	0.00	0.00	0.00	0.00	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.26	0.00	0.00	0.15
May	121	0.09	0.00	0.02	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.01	0.28	0.00	0.00	0.00	0.13	0.00
May	122	0.00	0.00	0.08	0.02	0.02	0.00	0.22	0.00	0.00	0.00	0.00	1.37	0.00	0.45	0.00	0.00	0.00	0.00
May	123	0.26	0.00	0.00	0.61	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.36	0.00	0.09	0.00	0.00	0.00	0.36
May	124	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.02	1.20
May	125	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.03	0.30
May	126	0.00	0.10	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.26	0.15	0.21	0.16
May	127	0.00	0.00	0.00	1.20	0.00	0.00	0.42	0.00	0.00	0.04	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.84
May	128	0.00	0.00	0.00	0.00	0.84	0.21	0.01	0.01	0.00	0.85	0.00	0.00	0.04	0.00	0.36	0.00	0.00	1.49
May	129	0.00	0.00	0.32	0.20	3.29	0.00	0.00	0.19	0.00	1.57	0.00	0.00	0.34	0.27	0.00	0.00	0.00	0.00
May	130	0.00	0.00	0.00	0.25	0.00	0.02	0.09	0.00	0.00	0.05	2.47	0.00	0.01	0.02	0.00	0.00	0.00	0.00
May	131	0.00	0.00	0.01	0.15	0.00	0.60	0.04	0.06	0.00	0.00	0.08	0.40	0.09	0.00	0.44	0.11	0.00	0.00
May	132	0.00	0.00	0.24	2.02	0.00	0.02	0.16	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.29	0.00	0.24
May	133	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.16	0.00	0.19	0.00	0.00
May	134	0.00	1.13	0.00	0.00	4.30	0.02	0.00	0.00	0.00	0.65	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
May	135	0.14	0.63	0.59	0.00	1.85	0.00	0.30	0.04	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
May	136	0.23	0.00	0.37	0.31	0.00	0.00	0.18	0.45	0.35	0.00	0.27	0.02	0.00	0.00	0.00	0.71	0.00	0.00
May	137	0.26	0.66	0.02	0.00	0.00	0.02	0.00	0.06	0.05	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.03	0.00
May	138	0.07	2.00	0.04	0.00	0.00	0.01	0.00	0.10	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.41	0.50
May	139	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.02	0.22	0.00	0.07	0.35	0.00	0.00	0.00	0.00	0.31	0.05
May	140	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.04	0.00
May	141	0.00	1.30	0.00	0.00	0.04	0.00	0.00	0.00	0.49	0.00	0.00	0.38	0.14	0.00	0.08	0.00	0.05	0.00
May	142	0.00	2.70	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.10	0.53	0.00	0.00	0.00	0.30	0.28	0.00	0.00
May	143	0.00	0.65	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.12	2.19	0.06	0.00	0.00	0.26	0.19	0.00	0.00
May	144	0.00	0.95	0.00	0.00	1.26	0.00	0.01	0.04	0.00	0.28	0.05	0.00	0.03	0.00	0.00	0.52	0.00	0.00
May	145	0.00	0.63	0.00	0.00	1.28	0.00	0.02	0.17	0.00	0.00	0.00	0.00	0.09	0.54	0.06	0.08	0.00	0.00
May	146	0.00	0.00	1.15	0.05	0.32	0.00	0.63	1.01	0.00	0.00	0.00	0.00	1.21	0.00	0.00	0.25	0.00	0.00
May	147	0.00	0.04	0.00	0.14	0.11	0.00	0.00	0.32	0.00	0.17	0.00	0.45	2.41	0.00	0.00	0.26	0.00	0.00
May	148	0.00	0.25	0.00	0.01	0.00	0.00	0.00	0.43	0.00	0.02	0.11	0.22	0.36	0.31	0.00	0.00	0.03	0.03
May	149	0.00	0.60	0.00	0.18	0.13	0.00	0.00	0.00	0.00	0.00	0.10	0.87	0.19	0.08	0.00	0.00	0.00	0.03
May	150	0.00	0.21	0.03	0.16	0.00	0.00	0.03	0.00	0.00	0.01	0.93	0.80	0.00	0.53	0.00	0.17	0.36	0.55

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
May	151	0.01	0.01	0.00	0.15	0.16	0.00	0.16	0.04	0.70	3.35	0.23	0.00	0.00	0.07	0.29	0.04	0.00	0.02
June	152	0.00	0.01	0.00	0.29	na	0.00	0.09	0.17	0.42	0.00	0.06	0.00	0.00	0.02	0.02	0.40	0.00	0.25
June	153	0.00	0.43	0.42	0.49	na	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.80	0.00	0.00	0.00	0.19	0.00
June	154	0.00	0.00	0.57	0.00	na	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.02	0.00	0.02	0.01	0.00	0.00
June	155	0.00	0.07	0.01	0.00	na	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.05	0.03	0.00	0.00
June	156	0.00	0.01	0.50	0.00	na	0.14	0.00	0.15	0.00	0.00	0.00	0.00	0.05	0.67	0.00	0.00	0.00	0.00
June	157	0.00	0.40	0.49	0.00	na	0.00	0.20	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	158	0.00	0.09	0.13	0.00	na	0.00	0.14	0.22	0.14	0.00	0.11	0.20	0.00	0.23	0.11	1.06	0.00	0.10
June	159	0.00	0.03	0.00	0.14	na	0.00	0.09	0.39	0.00	0.00	0.12	0.03	0.00	0.00	0.36	0.00	0.08	0.00
June	160	0.00	0.01	0.01	2.30	na	0.00	0.00	0.41	0.00	0.00	0.07	0.05	0.00	0.36	1.26	0.11	0.04	0.00
June	161	0.00	0.00	0.02	3.48	na	0.21	0.00	1.34	0.90	0.00	0.13	0.30	0.00	0.01	0.18	0.16	0.34	0.00
June	162	0.61	0.30	0.73	0.01	na	0.00	0.68	0.09	0.00	0.42	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.29
June	163	0.00	0.55	0.00	0.01	na	0.00	0.48	0.00	0.00	3.40	0.55	0.00	0.00	0.00	0.00	0.02	0.58	0.00
June	164	0.30	0.09	0.00	0.01	na	0.00	0.00	0.00	0.43	0.00	0.52	0.14	0.00	0.00	0.06	0.03	0.13	0.00
June	165	0.62	1.35	0.11	0.14	na	0.00	0.70	0.00	0.00	0.00	0.01	0.00	0.40	0.00	0.27	0.03	0.16	0.00
June	166	0.00	0.45	2.00	0.44	na	0.08	2.00	0.19	0.00	0.00	0.00	0.03	0.05	0.00	0.16	4.37	0.00	0.00
June	167	0.00	1.57	0.00	0.00	na	0.00	0.00	0.34	0.00	0.00	0.00	0.02	0.03	0.00	0.20	4.01	0.14	0.13
June	168	0.00	0.05	0.00	0.02	na	0.00	0.00	0.02	0.00	0.21	0.00	0.91	0.02	0.00	0.36	0.05	0.42	0.69
June	169	0.00	0.00	0.00	0.00	na	0.00	0.09	0.00	0.00	0.05	0.28	1.09	0.65	0.00	0.39	1.97	0.00	0.00
June	170	0.00	0.03	0.00	0.23	na	0.00	0.00	0.34	0.00	0.00	0.00	0.25	0.41	0.00	0.46	0.00	0.00	0.00
June	171	0.00	0.45	0.00	0.02	na	0.00	0.02	0.00	0.00	0.00	0.00	1.39	0.14	0.00	0.00	0.00	0.00	0.00
June	172	0.00	0.37	0.00	0.00	na	0.04	0.00	0.00	0.12	0.00	0.09	0.00	0.08	0.08	0.02	0.00	0.00	0.00
June	173	0.00	0.05	0.00	0.69	na	0.44	0.13	0.31	0.22	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.09	0.00
June	174	0.00	0.00	0.34	1.73	na	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.10
June	175	0.00	0.33	0.00	0.04	na	0.06	0.19	0.27	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.66	0.00
June	176	0.00	0.00	0.00	0.00	na	0.00	0.10	1.52	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.01	0.00	0.25
June	177	0.00	0.00	0.00	0.00	na	0.00	0.00	1.51	0.23	0.00	0.00	0.78	0.05	0.00	1.14	0.01	0.10	0.00
June	178	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.03
June	179	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	180	0.00	0.02	0.00	0.35	na	0.00	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	181	0.00	0.39	0.00	0.12	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.18	0.00	0.00	0.00	0.02	0.33
July	182	0.00	0.12	0.00	0.04	0.00	0.27	0.00	0.04	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.97
July	183	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00
July	184	0.00	0.47	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.40	0.00	0.17	0.00	0.00
July	185	0.00	0.63	0.68	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.06	0.00
July	186	1.02	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.18	0.00
July	187	0.00	0.00	0.38	0.00	0.18	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.16	0.51	0.00	0.00	1.01
July	188	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.28
July	189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.20	0.09	0.00	0.44
July	190	0.00	0.05	0.52	0.22	0.06	0.00	0.00	0.00	0.00	0.50	0.00	0.09	0.00	0.85	0.00	0.00	0.11	0.28
July	191	0.38	0.14	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
July	192	0.55	0.00	0.00	0.15	0.00	0.03	0.00	0.17	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	193	0.18	0.95	0.00	0.28	0.70	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	194	0.00	0.15	0.00	0.02	0.10	0.02	0.00	0.13	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
July	195	0.00	0.23	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	1.09	0.00
July	196	0.00	0.06	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.19	0.01	0.00
July	197	0.19	0.00	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
July	198	0.03	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00
July	199	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.27	0.00	0.00	0.00	0.20	0.00	0.18	0.00	0.00	0.00	0.00
July	200	0.18	0.70	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.26	0.12	0.00	0.01	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
July	201	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	1.00	0.00	0.00	0.00	0.66	0.00	0.94	0.01	0.05	0.01
July	202	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.23	0.00	1.70
July	203	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.10	0.25	0.04	0.00	0.00
July	204	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.25	0.85	0.00	0.56	0.15	0.02	0.05	0.00	0.00	0.00
July	205	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.04	0.00
July	206	0.05	0.00	0.12	0.00	0.00	0.00	0.08	1.13	0.00	0.00	0.13	0.70	0.00	0.00	0.00	0.00	0.13	0.00
July	207	0.00	0.30	0.13	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	208	0.03	0.63	0.66	0.00	0.00	0.02	0.08	0.32	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.25	0.00
July	209	0.02	0.07	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.02	0.25	0.43	0.00	0.00	0.00	0.03	0.00	0.00
July	210	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
July	211	0.23	0.03	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.21
July	212	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.22
Aug	213	0.00	0.05	0.00	0.00	na	0.00	0.00	0.00	0.08	0.00	0.00	0.05	0.00	0.45	0.14	0.29	0.00	0.00
Aug	214	0.00	0.09	0.00	na	na	0.00	0.04	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.22	0.02	0.31
Aug	215	0.00	0.01	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00
Aug	216	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.02	0.00	0.01	0.00
Aug	217	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00
Aug	218	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	1.98	0.00	0.09	0.00	0.00	0.00	0.29	0.03	0.00
Aug	219	0.00	0.00	0.00	na	na	0.00	0.23	0.00	0.00	0.75	0.00	0.00	0.49	0.00	0.00	0.00	0.01	0.00
Aug	220	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00
Aug	221	0.00	0.00	0.00	na	na	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Aug	222	0.00	0.33	0.00	na	na	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.06	0.31	0.00
Aug	223	0.00	0.01	0.02	na	na	0.40	0.00	0.32	0.00	0.00	0.00	0.00	0.03	0.33	0.00	0.04	0.00	0.00
Aug	224	0.00	0.00	0.08	na	na	1.00	0.00	0.00	0.01	0.00	0.00	0.00	0.10	0.00	0.00	0.02	0.00	0.00
Aug	225	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.66	0.00	0.06	0.00	0.00
Aug	226	0.00	0.01	0.00	na	na	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.22	0.06	0.11	0.80
Aug	227	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.43	0.75
Aug	228	0.03	0.00	0.00	na	na	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Aug	229	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.05	0.00	0.01	0.03	0.00	0.00	0.03	0.02	0.00	0.00
Aug	230	0.00	0.00	0.04	na	na	0.00	0.00	0.12	0.00	0.00	0.77	0.01	0.13	0.00	0.00	0.00	0.00	0.00
Aug	231	0.00	0.00	0.00	na	na	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	232	0.00	0.00	0.00	na	na	0.70	0.00	0.00	0.00	0.00	0.00	0.64	0.04	0.00	0.00	0.00	0.00	0.00
Aug	233	0.00	0.00	0.03	na	na	0.21	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00
Aug	234	0.00	0.00	0.01	na	na	0.01	0.00	0.00	0.00	0.00	0.00	0.35	0.11	0.00	0.00	0.00	0.00	0.00
Aug	235	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00
Aug	236	0.00	0.00	0.00	na	na	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Aug	237	0.00	0.00	0.00	na	na	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
Aug	238	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Aug	239	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.09	0.67
Aug	240	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00
Aug	241	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Aug	242	0.00	0.32	0.40	na	na	0.00	0.05	0.04	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.02
Aug	243	0.00	0.16	0.00	na	na	0.03	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01	0.00
Sept	244	0.10	0.00	1.04	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.78	0.00	0.03	0.18	0.00
Sept	245	0.16	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.02	0.74	0.00	0.00	0.00	0.29	0.00
Sept	246	0.00	0.03	0.04	0.00	0.00	0.00	0.09	0.08	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
Sept	247	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	248	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	249	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	250	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.20	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Sept	251	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.07	0.09	0.00	0.00	0.26	0.00	0.00
Sept	252	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.03	0.00	0.06	0.00	0.00
Sept	253	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Sept	254	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Sept	255	0.55	0.03	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.16	0.00	0.32	0.00	0.00	0.02	0.05
Sept	256	0.15	0.00	0.00	0.00	0.36	2.04	0.88	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	257	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Sept	258	0.00	0.02	0.00	0.00	0.20	0.00	1.85	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	1.13	0.00	0.00
Sept	259	0.00	0.00	0.01	0.00	0.95	0.37	0.83	0.29	0.00	0.00	0.00	0.00	0.06	0.00	0.00	1.24	0.00	0.00
Sept	260	0.00	0.00	0.02	0.00	0.14	0.00	0.05	1.73	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Sept	261	0.18	0.00	0.03	0.00	0.14	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
Sept	262	0.07	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	263	0.00	0.00	0.00	0.46	0.12	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.01	0.04	0.00	0.18	0.00	0.00
Sept	264	0.25	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.07	0.00	0.16	0.00	0.26	0.00	0.00	0.00	0.00	0.00
Sept	265	0.00	0.17	0.16	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	266	0.60	0.01	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	0.00
Sept	267	0.16	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
Sept	268	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.00	0.12	0.00	0.00
Sept	269	0.38	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.04	0.22	0.00	0.00	0.07	0.00	0.00
Sept	270	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.48	0.00	0.00
Sept	271	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sept	272	0.30	0.03	0.00	0.00	0.36	0.15	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.07	0.00	0.00	0.00
Sept	273	0.00	1.96	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.22	0.00
Oct	274	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.28	0.00
Oct	275	0.00	0.00	0.00	0.11	0.00	0.00	0.14	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.25	0.00
Oct	276	0.00	0.00	0.00	0.00	0.00	1.65	0.00	0.16	0.02	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
Oct	277	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.02	0.00
Oct	278	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.11	0.00	0.00
Oct	279	0.00	1.45	0.00	0.00	0.00	0.00	0.32	0.00	0.02	0.00	0.00	1.02	0.00	0.07	0.00	0.02	0.00	0.00
Oct	280	0.09	0.17	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.21	0.84	0.00
Oct	281	0.24	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.09	0.00
Oct	282	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.55	0.00	0.02	0.00	0.02	0.00
Oct	283	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.09	0.00	0.00	0.40	0.00	0.00	0.00	0.27	0.00
Oct	284	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
Oct	285	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	286	0.00	0.00	0.28	0.00	0.00	0.64	0.00	0.00	0.09	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	287	0.00	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00
Oct	288	0.00	0.07	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.33	0.22	0.00	0.00	0.00	0.00	0.00	0.00
Oct	289	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Oct	290	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	291	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.72
Oct	292	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00
Oct	293	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	294	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Oct	295	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.10
Oct	296	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
Oct	297	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.69	0.04	0.00	0.00
Oct	298	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.23
Oct	299	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	300	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.01	0.39	0.00	0.00	0.00	0.05	0.04	0.00	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
Day of																			
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Oct	301	0.43	0.00	0.00	0.00	0.00	0.00	0.70	0.34	0.00	0.50	0.61	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Oct	302	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	303	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.02	0.66	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Oct	304	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	1.16	0.00	0.00	0.23	0.00
Nov	305	0.00	0.00	0.00	0.29	0.00	0.00	0.14	0.00	0.31	0.00	0.00	0.00	0.50	0.07	0.00	0.00	0.00	0.00
Nov	306	0.59	0.25	0.00	0.18	0.00	0.00	0.58	0.00	0.10	0.70	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Nov	307	0.00	0.03	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.45	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
Nov	308	0.12	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
Nov	309	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	310	0.00	0.21	0.01	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	311	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.27	0.00	0.00	0.07	0.00	0.00	0.00
Nov	312	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.13	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00
Nov	313	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.03
Nov	314	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.80
Nov	315	0.01	0.00	0.06	0.00	0.02	0.06	0.00	0.36	0.05	0.06	0.00	0.00	0.00	0.06	0.12	0.01	0.00	0.30
Nov	316	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.05	0.09	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03
Nov	317	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.46	0.00	0.02	0.00	0.69	0.00	0.00	0.00	0.00
Nov	318	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Nov	319	0.29	0.04	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	320	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	321	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.28	0.00	0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Nov	322	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	323	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.10	0.00	0.16	0.00	0.64	0.00
Nov	324	0.00	0.21	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.11	0.50	0.02
Nov	325	0.00	0.18	0.00	0.32	0.00	0.00	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Nov	326	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Nov	327	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.25	0.08	0.00	0.00
Nov	328	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.00
Nov	329	0.00	0.00	0.00	0.00	0.10	0.00	0.06	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00
Nov	330	0.00	0.00	0.00	0.06	0.05	0.20	0.12	0.20	0.00	0.07	0.43	0.03	0.00	0.20	0.12	0.16	0.00	0.25
Nov	331	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.30	0.00	0.14	0.15	0.06	0.00	0.00	0.08	0.76	0.00	0.59
Nov	332	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.06	0.01	0.03	0.00	0.00
Nov	333	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.02	0.04	0.02	0.00
Nov	334	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.09	0.14	0.00
Dec	335	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.06	0.25	0.00	0.10
Dec	336	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.15	0.03	0.20
Dec	337	0.06	0.07	0.00	0.09	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.14	0.00
Dec	338	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.00	0.04	0.03	0.09	0.32
Dec	339	0.00	0.00	0.00	0.11	0.00	0.00	0.00	1.06	0.03	0.00	0.00	0.22	0.31	0.00	0.00	0.00	0.07	0.10
Dec	340	0.07	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.02	0.02
Dec	341	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.21	0.00
Dec	342	0.07	0.26	0.07	0.00	0.00	0.00	0.16	0.00	0.08	0.00	0.04	0.10	0.00	0.00	0.18	0.11	0.05	0.00
Dec	343	0.00	0.00	0.04	0.00	0.00	0.14	0.11	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.03
Dec	344	0.00	0.43	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.20	0.00	0.00	0.00	0.00	0.17	0.00	0.04
Dec	345	0.00	0.00	0.00	0.00	0.32	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.01	0.00	0.10
Dec	346	0.00	0.00	0.07	0.08	0.00	0.00	0.27	0.00	0.00	0.10	0.00	0.00	0.65	0.17	0.00	0.00	0.00	0.10
Dec	347	0.00	0.00	0.02	0.00	0.00	0.00	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.19	0.14	0.02	0.00	0.00
Dec	348	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.03	0.03	0.05	0.00	0.00	0.00
Dec	349	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.19	0.23	0.00	0.00	0.06
Dec	350	0.00	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.06	0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD																	
		sd220704		(1943-1999)															
		Source - SDSU Climate Center (Bender, 2000a)										na = not available							
	Day of																		
Month	Yr	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Dec	351	0.00	0.00	0.06	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.02	0.00
Dec	352	0.16	0.00	0.03	0.00	0.00	0.00	0.00	0.24	0.00	0.20	0.00	0.00	0.36	0.00	0.00	0.00	0.04	0.00
Dec	353	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.54	0.00	0.00	0.10	0.20
Dec	354	0.00	0.21	0.00	0.00	0.00	0.00	0.11	0.02	0.00	0.00	0.26	0.00	0.00	0.25	0.00	0.01	0.03	0.00
Dec	355	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.13	0.00	0.09	0.00	0.00	0.00	0.10
Dec	356	0.23	0.00	0.00	0.10	0.00	0.18	0.00	0.01	0.57	0.03	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.29
Dec	357	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.00
Dec	358	0.00	0.00	0.00	0.12	0.00	0.00	0.19	0.00	0.00	0.05	0.00	0.22	0.00	0.05	0.00	0.00	0.13	0.06
Dec	359	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.10	0.00	0.33
Dec	360	0.15	0.08	0.00	0.05	0.00	0.00	0.17	0.12	0.00	0.00	0.05	0.00	0.17	0.00	0.00	0.00	0.08	0.00
Dec	361	0.05	0.00	0.00	0.24	0.02	0.00	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.01	0.00
Dec	362	0.00	0.00	0.00	0.00	0.00	0.01	0.28	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.04	0.19	0.00	0.00
Dec	363	0.04	0.00	0.03	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.23	0.00	0.00
Dec	364	0.21	0.00	0.00	0.05	0.02	0.00	0.00	0.00	0.41	0.00	0.00	0.32	0.00	0.00	0.00	0.20	0.06	0.00
Dec	365	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.84	0.00	0.00	0.24	0.07	0.00	0.71	0.18	0.16	0.00
29-Feb	366				0.00				0.00				0.10				0.11		

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
	Day of																		
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Jan	1	0.10	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	na
Jan	2	0.00	0.10	0.00	0.00	0.00	na	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	na
Jan	3	0.00	0.00	0.00	0.00	0.04	na	0.00	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.25	0.00	0.20	1.00
Jan	4	0.00	0.00	0.00	0.00	0.00	na	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Jan	5	0.00	0.00	0.00	0.03	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Jan	6	0.00	0.07	0.11	0.07	0.00	na	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00
Jan	7	0.02	0.00	0.00	0.00	0.00	na	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	8	0.00	0.00	0.00	0.07	0.00	na	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Jan	9	0.00	0.00	0.00	0.07	0.57	na	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	10	0.00	0.07	0.00	0.00	0.84	na	0.05	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.30	0.00	0.00	0.00
Jan	11	0.00	0.08	0.00	0.02	0.22	na	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	12	0.39	0.00	0.00	0.01	0.00	na	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.05	0.00
Jan	13	0.00	0.00	0.00	0.06	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.20	0.00	0.00
Jan	14	0.00	0.00	0.00	0.00	0.00	na	0.20	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00
Jan	15	0.20	0.00	0.00	0.27	0.00	na	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Jan	16	0.00	0.00	0.02	0.00	0.00	na	0.19	0.00	0.00	0.13	0.00	0.05	0.20	0.00	0.00	0.00	0.00	0.00
Jan	17	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.60	0.00	na
Jan	18	0.00	0.05	0.00	0.00	0.00	na	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.50
Jan	19	0.00	0.14	0.00	0.00	0.00	na	0.17	0.00	0.10	0.00	0.05	0.00	0.30	0.00	0.00	0.00	0.00	0.00
Jan	20	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.15	0.00	0.10	0.00	0.00	0.00	0.20	0.00
Jan	21	0.07	0.04	0.00	0.12	0.00	na	0.00	0.49	0.15	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00
Jan	22	0.00	0.03	0.00	0.00	0.00	na	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.20
Jan	23	0.00	0.00	0.00	0.00	0.08	na	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00
Jan	24	0.00	0.17	0.00	0.00	0.00	na	0.01	0.06	0.00	0.23	0.05	0.40	0.00	0.00	0.30	0.00	0.00	0.00
Jan	25	0.00	0.13	0.06	0.00	0.00	na	0.00	0.00	0.00	0.06	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.40
Jan	26	0.00	0.02	0.00	0.00	0.00	na	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	27	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00
Jan	28	0.00	0.00	0.00	0.00	na	na	0.04	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Jan	29	0.01	0.02	0.00	0.00	na	na	0.25	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00
Jan	30	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jan	31	0.00	0.00	0.02	0.00	0.00	na	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00
Feb	32	0.00	0.00	0.03	0.09	0.00	na	0.00	0.00	0.00	0.05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Feb	33	0.00	0.04	0.00	0.00	0.10	na	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.20	0.40	0.05	0.00
Feb	34	0.00	0.00	0.00	0.09	0.00	na	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.60	0.00	0.15	0.00
Feb	35	0.03	0.00	0.00	0.00	0.00	na	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
Feb	36	0.00	0.07	0.00	0.00	0.00	na	0.06	0.46	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	37	0.22	0.00	0.00	0.00	0.00	na	0.00	0.25	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	38	0.08	0.03	0.00	0.00	0.00	na	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00
Feb	39	0.40	0.03	0.00	0.02	0.00	na	0.00	0.00	0.00	0.00	0.05	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Feb	40	0.01	0.00	0.04	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	41	0.00	0.01	0.00	0.00	na	na	0.00	0.00	0.00	0.12	0.00	0.05	0.00	0.05	0.10	0.00	0.05	0.00
Feb	42	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.60	0.00	0.00	0.00
Feb	43	0.00	0.01	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	44	0.00	0.14	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.05	1.05	0.00	0.00	0.20	0.00	0.00	0.00
Feb	45	0.05	0.13	0.00	0.00	0.00	na	0.00	0.02	0.00	0.25	0.10	0.00	0.30	0.10	0.00	0.00	0.10	0.00
Feb	46	0.35	0.02	0.00	0.00	0.00	na	0.00	0.02	0.75	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.05	0.05
Feb	47	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.10	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00
Feb	48	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.10	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00
Feb	49	0.00	0.00	0.00	0.00	na	na	0.00	0.04	0.00	0.00	0.00	0.00	0.60	0.20	0.00	0.00	0.00	0.00
Feb	50	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
Day of																			
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Feb	51	0.00	0.00	0.00	0.00	na	na	0.06	0.05	0.00	0.45	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.25
Feb	52	0.00	0.00	0.02	0.00	0.00	na	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb	53	0.36	0.00	0.00	0.00	0.00	na	0.00	0.22	0.00	0.20	0.30	0.00	0.00	0.00	0.20	0.20	0.00	0.00
Feb	54	0.05	0.00	0.00	0.42	0.00	na	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Feb	55	0.00	0.00	0.00	0.02	0.00	na	0.00	0.00	0.06	0.00	0.00	0.00	0.15	0.65	0.00	0.00	0.00	0.00
Feb	56	0.00	0.00	0.00	0.00	0.00	na	0.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.10	0.30	0.00	0.00
Feb	57	0.00	0.00	0.00	0.00	0.00	na	0.00	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Feb	58	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.35	0.00	0.10	0.00	0.00	0.00	0.00	0.00	na	0.00
Feb	59	0.00	0.00	0.00	0.00	0.00	na	0.14	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.70	0.00
Mar	60	0.00	0.02	0.00	0.00	0.00	na	0.00	0.00	0.06	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00
Mar	61	0.00	0.00	0.00	0.01	0.00	na	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.60
Mar	62	0.00	0.00	0.00	0.07	0.00	na	0.72	0.00	0.00	0.05	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	63	0.00	0.00	0.00	0.01	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.40
Mar	64	0.00	0.24	0.00	0.00	0.50	na	0.00	0.05	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.40
Mar	65	0.00	0.08	0.00	0.00	0.45	na	0.00	0.00	0.00	0.00	0.00	0.20	0.30	0.54	0.00	0.00	0.60	0.40
Mar	66	0.00	0.00	0.00	0.01	0.50	na	0.00	0.03	0.00	0.00	0.00	0.20	0.00	0.03	0.00	0.00	0.00	na
Mar	67	0.00	0.00	0.00	0.10	0.00	na	0.00	0.00	0.06	0.48	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
Mar	68	0.38	0.00	0.00	0.00	0.00	na	0.00	0.05	0.08	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	69	0.25	0.04	0.00	0.08	0.00	na	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.05	0.00	0.00	0.00
Mar	70	0.00	0.14	0.00	0.00	0.00	na	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar	71	0.00	0.00	0.00	0.04	0.00	na	0.00	0.00	0.00	na	0.00	0.00	0.60	0.00	0.05	0.00	0.00	0.00
Mar	72	0.02	0.32	0.00	0.00	0.00	na	0.00	0.00	0.00	na	0.05	0.00	0.00	0.20	0.40	0.00	0.40	0.55
Mar	73	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	na	0.80	0.05	0.00	0.00	0.00	0.00	0.00	0.40
Mar	74	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	3.00	0.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Mar	75	0.00	0.00	0.00	0.00	0.01	na	0.00	0.00	0.00	0.00	0.50	0.05	0.00	0.00	0.45	0.00	0.03	0.29
Mar	76	0.00	0.03	0.00	0.15	0.25	na	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
Mar	77	0.00	0.00	0.00	0.00	na	na	0.00	0.30	0.15	0.00	0.00	0.20	0.00	0.20	0.00	0.00	0.00	0.10
Mar	78	0.00	0.00	0.00	0.29	na	na	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Mar	79	0.00	0.00	0.00	0.45	na	na	0.00	0.02	0.20	0.00	0.10	0.00	0.00	0.30	0.00	0.00	0.00	0.00
Mar	80	0.00	0.00	0.00	0.00	0.00	na	0.16	0.03	1.80	0.00	0.00	0.00	0.05	0.00	0.00	0.20	0.00	0.00
Mar	81	0.17	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.20	0.20	0.00	0.60	0.00	0.00	0.00
Mar	82	0.15	0.07	0.01	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.11	0.16	0.00
Mar	83	0.00	0.00	0.00	0.17	0.01	na	0.00	0.00	0.03	0.00	0.00	0.30	0.00	0.00	0.00	0.34	0.00	na
Mar	84	0.10	0.00	0.00	0.00	0.25	na	0.00	0.00	0.45	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.10
Mar	85	0.00	0.07	0.00	0.00	0.57	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Mar	86	0.00	0.03	0.00	0.00	0.00	na	0.03	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Mar	87	0.00	0.00	0.00	0.00	0.25	na	0.05	0.00	0.12	0.00	0.10	0.00	0.00	0.00	0.40	0.59	1.00	0.00
Mar	88	0.00	0.18	0.00	0.00	0.00	na	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00
Mar	89	0.00	0.00	0.00	0.98	0.08	na	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Mar	90	0.08	0.00	0.02	0.00	0.00	na	0.55	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
Apr	91	0.03	0.00	0.00	0.00	0.18	na	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	92	0.60	0.18	0.00	0.25	0.00	na	0.00	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	93	0.03	0.10	0.00	0.00	0.00	na	0.47	0.38	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Apr	94	0.09	0.31	0.01	0.00	1.00	na	0.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
Apr	95	0.16	0.02	0.06	0.03	0.00	na	0.00	0.00	0.00	0.00	0.20	0.25	0.00	0.00	0.00	1.20	0.00	0.00
Apr	96	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.10	0.40	0.00	0.00	0.00	0.00	0.00	0.08	0.00
Apr	97	0.00	0.70	0.00	0.13	0.00	na	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	1.50	0.13	0.00	0.00
Apr	98	0.00	0.00	0.00	0.22	0.00	na	0.00	0.00	0.00	0.18	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00
Apr	99	0.00	0.02	0.00	0.00	0.00	na	0.00	0.00	0.05	0.05	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Apr	100	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.10	0.00	0.50	0.00	0.57	0.00	0.70	0.00	0.20	0.00

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
Day of																			
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Apr	101	0.34	0.65	0.00	0.00	0.50	na	0.22	0.05	0.00	0.00	0.00	0.37	0.20	0.00	0.00	0.00	0.80	0.25
Apr	102	0.35	0.30	0.00	0.37	1.00	na	0.20	0.01	0.40	0.00	0.00	0.00	0.70	0.20	0.10	0.00	0.00	na
Apr	103	0.00	0.11	0.00	0.00	na	na	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	104	0.00	0.00	0.00	0.00	0.00	na	0.00	0.15	0.00	0.00	0.00	0.50	0.00	0.00	0.25	0.00	0.00	0.00
Apr	105	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.12	0.00
Apr	106	0.00	0.01	0.00	0.22	0.00	na	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	107	0.00	0.69	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00
Apr	108	0.00	0.00	0.00	0.01	0.00	na	0.00	1.85	0.00	0.00	0.10	0.05	0.00	0.05	0.00	0.00	0.10	0.43
Apr	109	0.01	0.00	0.00	0.34	0.00	na	0.00	0.00	0.00	0.00	0.29	0.00	0.70	0.02	0.02	0.00	0.40	0.00
Apr	110	0.00	0.00	0.00	0.57	0.00	na	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.38	0.00	0.00	0.00
Apr	111	0.00	0.00	0.02	0.00	0.00	na	0.00	0.12	0.25	0.01	0.00	0.00	0.00	2.68	0.00	0.00	0.40	0.00
Apr	112	0.00	0.00	0.00	0.00	0.00	na	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.12
Apr	113	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr	114	0.00	0.00	0.00	0.00	0.00	na	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.25	0.00
Apr	115	0.00	0.00	0.09	0.24	0.00	na	0.06	0.50	0.00	0.00	0.10	0.30	0.00	0.42	0.24	0.60	0.00	0.16
Apr	116	0.00	0.00	0.00	0.02	0.00	na	0.00	0.00	0.00	0.12	0.08	0.26	0.30	0.45	0.00	0.00	0.45	0.00
Apr	117	0.00	0.13	0.00	0.01	0.00	na	0.00	0.00	0.00	0.52	1.20	1.25	0.00	0.00	0.05	0.00	0.00	0.00
Apr	118	0.00	0.00	0.00	0.00	0.00	na	0.00	0.15	0.00	0.00	0.60	0.00	0.50	0.00	0.00	0.00	0.00	0.24
Apr	119	0.00	0.00	0.04	0.19	na	na	0.00	0.07	0.00	0.00	0.70	1.00	0.00	0.00	1.08	0.00	0.17	0.00
Apr	120	0.00	0.00	0.00	0.00	na	na	0.00	0.02	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.08
May	121	0.12	0.00	0.00	0.00	0.50	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
May	122	0.00	0.00	0.09	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.18	0.00	0.40
May	123	0.00	0.00	0.08	0.00	0.03	na	0.00	0.00	0.45	0.30	0.55	0.00	0.30	0.00	0.00	0.07	0.00	0.10
May	124	0.00	0.00	0.03	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.02	0.00	0.00
May	125	0.00	0.33	0.00	0.00	0.00	na	0.00	0.14	0.00	0.00	0.98	0.00	0.00	0.00	0.23	0.19	0.00	0.00
May	126	0.00	0.00	0.03	0.00	0.75	na	0.00	0.10	0.00	0.00	0.00	0.04	0.20	0.00	1.02	0.02	0.02	0.00
May	127	0.03	0.00	0.03	0.09	1.10	na	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.02	0.27	0.00
May	128	0.61	0.00	0.10	0.09	0.00	na	0.00	0.35	0.00	0.18	0.00	0.00	0.05	0.00	0.72	0.00	2.00	0.00
May	129	0.00	0.00	0.38	0.97	0.00	na	0.00	0.75	0.00	1.64	0.11	0.48	0.00	0.00	0.84	0.00	4.80	0.05
May	130	0.11	0.40	0.01	0.57	0.00	na	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.00	0.15	0.00	1.85	0.50
May	131	0.00	0.58	0.00	0.00	0.10	na	0.15	0.00	0.00	0.00	0.00	0.00	0.10	1.10	0.00	0.00	0.00	0.00
May	132	0.08	0.57	0.22	0.04	0.42	na	0.12	0.02	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00
May	133	0.00	0.21	0.18	0.79	0.00	na	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.10
May	134	0.00	0.00	0.02	3.56	0.00	na	0.00	0.08	0.00	0.00	0.70	1.00	0.00	0.00	0.00	0.00	0.28	0.00
May	135	0.00	0.03	0.00	4.52	0.00	na	0.00	0.00	0.00	0.00	0.06	0.00	1.25	0.00	0.00	0.00	0.00	0.02
May	136	0.34	0.00	0.23	1.20	0.00	na	0.00	0.00	0.00	0.00	0.08	0.00	0.65	0.00	0.06	0.47	0.10	0.01
May	137	0.08	0.00	0.68	0.04	0.00	na	0.00	0.00	0.05	0.00	0.11	0.05	0.61	0.00	0.24	0.00	0.00	0.00
May	138	0.00	0.00	0.23	0.00	0.00	na	0.68	0.00	0.07	0.24	0.16	0.00	0.73	0.08	0.00	0.00	0.00	0.00
May	139	0.00	0.00	0.00	0.10	0.50	na	0.00	0.01	0.08	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May	140	0.00	0.06	0.00	3.50	0.08	na	0.00	0.00	0.14	0.33	0.00	0.40	0.26	0.00	0.00	0.20	0.00	0.12
May	141	0.00	0.00	0.00	0.10	0.00	na	0.00	0.09	1.40	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.18	0.07
May	142	0.00	0.00	0.42	0.00	0.00	na	0.00	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.35	0.00	0.02	0.00
May	143	0.00	0.00	2.42	0.08	0.00	na	0.26	0.36	0.00	0.00	0.00	0.00	1.42	0.92	0.07	0.00	0.15	0.31
May	144	0.00	0.00	0.00	0.04	0.00	na	0.00	0.10	0.00	0.00	0.00	0.23	0.00	0.00	0.28	0.00	0.00	1.06
May	145	0.03	0.00	0.00	0.16	0.00	na	0.00	0.15	0.15	0.00	0.00	0.09	0.00	0.07	0.00	0.05	0.25	0.00
May	146	0.09	0.10	0.05	0.00	0.00	na	0.77	0.00	0.32	0.05	0.07	0.00	0.00	0.00	0.00	0.00	0.10	0.00
May	147	0.32	0.00	0.11	0.00	0.00	na	0.00	0.00	0.10	0.00	0.00	0.00	0.96	0.00	0.20	0.00	0.06	0.00
May	148	0.07	0.00	0.00	0.08	0.00	na	0.00	0.00	0.00	0.00	0.00	0.04	0.16	0.00	0.06	0.00	1.52	1.16
May	149	0.00	0.00	0.07	0.06	0.00	na	0.00	0.00	0.00	0.00	0.03	0.00	0.16	0.00	0.00	0.00	0.00	0.00
May	150	0.00	0.22	0.00	0.00	0.00	na	0.17	0.00	0.26	0.00	0.35	0.02	0.00	0.00	0.65	0.00	0.27	0.06

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
Day of																			
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
May	151	0.00	0.57	0.60	0.00	0.00	na	0.00	0.00	0.51	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.07
June	152	0.00	0.47	0.13	0.03	0.00	na	0.00	0.00	0.25	0.24	0.11	0.02	0.00	0.76	0.00	0.00	0.00	0.00
June	153	0.00	0.65	0.07	0.06	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.08	0.00
June	154	0.00	0.04	0.99	0.03	0.12	na	0.20	0.00	0.00	0.00	0.09	0.00	1.15	0.00	0.12	0.01	0.34	0.00
June	155	0.00	0.00	0.41	0.01	0.00	na	0.15	1.00	0.00	0.00	0.06	0.00	0.20	0.00	0.10	0.08	0.08	0.00
June	156	0.00	0.00	0.00	0.00	0.00	na	0.00	0.12	0.00	0.00	0.00	0.00	0.15	0.02	0.00	0.02	0.00	0.07
June	157	0.05	0.02	0.00	0.09	0.00	na	0.00	0.00	0.00	0.00	0.00	0.36	0.75	0.28	0.00	0.01	0.05	0.04
June	158	0.28	0.21	0.34	0.00	0.00	na	0.00	0.03	0.05	0.00	0.10	0.12	0.00	0.09	0.90	0.19	0.00	0.51
June	159	0.00	0.15	0.01	0.09	0.00	na	0.00	0.23	0.00	0.00	0.00	0.04	0.06	0.00	2.50	0.02	0.50	0.00
June	160	0.21	0.00	0.47	0.15	0.02	na	0.00	0.29	0.00	0.00	0.00	0.00	0.89	0.10	0.80	0.00	0.30	0.00
June	161	0.11	0.00	0.02	0.21	0.00	na	0.85	1.78	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00
June	162	0.00	0.00	0.00	0.15	0.00	na	0.20	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.14	0.00
June	163	0.00	0.00	0.20	0.00	0.05	na	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.03	0.02
June	164	0.00	0.00	0.18	0.25	0.00	na	0.00	0.01	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	165	0.00	0.00	0.17	0.40	0.05	na	0.00	0.19	0.00	0.07	0.38	0.22	0.15	0.13	0.00	0.00	0.00	0.00
June	166	0.00	0.91	0.01	0.53	0.00	na	0.00	0.00	0.00	1.15	0.00	0.00	0.44	1.56	0.00	0.50	0.00	0.07
June	167	0.74	0.06	0.02	0.11	0.13	na	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.08	1.20	0.00	0.00	0.00
June	168	1.16	0.02	0.00	0.54	0.20	na	0.00	0.00	0.00	0.00	0.53	0.16	0.00	0.47	1.12	0.00	0.00	0.07
June	169	0.00	0.03	0.00	0.00	0.00	na	0.00	0.00	0.00	0.22	0.00	0.00	0.10	0.23	0.25	0.00	0.00	0.02
June	170	0.77	0.18	0.00	0.00	0.00	na	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.08	0.74	0.00	0.00	0.55
June	171	0.21	0.11	0.03	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.07	0.00	0.00	0.10	0.00
June	172	0.00	0.01	0.30	0.00	0.11	na	0.80	0.10	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	1.40	0.04
June	173	0.00	0.05	0.00	0.35	0.00	na	0.00	0.00	0.00	0.00	0.09	0.26	0.00	0.00	0.10	0.00	0.90	0.00
June	174	0.00	0.00	0.00	0.02	0.00	na	0.00	0.00	0.04	0.00	0.02	0.00	0.00	0.12	0.00	0.10	0.02	0.63
June	175	0.11	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.72	0.47	0.00	0.00	0.05	0.00	0.00	0.00	0.00
June	176	0.01	0.00	0.00	0.28	0.00	na	0.06	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June	177	0.05	0.00	0.00	0.00	0.00	na	0.56	0.00	0.00	0.00	0.07	0.00	0.12	0.00	0.00	0.00	0.00	0.00
June	178	0.16	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00
June	179	0.04	0.00	0.01	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.16	0.00	0.03	0.00
June	180	0.03	0.00	0.00	0.00	0.01	na	0.30	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
June	181	0.03	0.00	0.00	0.00	0.43	na	0.00	0.25	0.00	0.00	0.00	0.00	0.15	0.35	0.14	0.00	0.00	0.00
July	182	0.00	0.00	0.00	0.00	0.00	na	0.00	1.10	0.00	0.65	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
July	183	0.00	0.03	na	1.05	0.00	na	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.28	0.00	0.00	0.00
July	184	0.00	0.00	0.00	0.00	0.12	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.29	0.00	0.00	0.00
July	185	0.13	0.00	0.00	0.00	0.28	na	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.03	0.28	0.00	0.00	0.00
July	186	0.00	0.00	0.00	0.03	0.00	na	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.26	0.02	0.00	0.20	0.05
July	187	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.09	0.00	0.00	0.00	0.09	0.12	0.30	0.00	0.00	0.66
July	188	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.23	0.00	0.00	0.05	0.04	0.00	0.70	2.05	0.70	0.00
July	189	0.00	0.00	0.00	0.00	0.00	na	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.15	0.00	0.00
July	190	0.13	0.00	0.00	0.25	0.00	na	0.00	0.00	0.01	0.00	0.00	0.00	0.37	0.02	0.00	0.00	0.03	0.00
July	191	0.00	0.00	0.00	0.00	0.00	na	0.00	0.22	0.01	0.00	0.00	0.05	0.75	0.00	0.00	0.00	0.17	0.00
July	192	0.00	0.00	0.11	0.00	0.00	na	0.00	0.05	0.10	0.00	0.15	0.00	0.20	0.08	0.15	0.00	0.00	0.25
July	193	0.62	0.00	0.26	0.00	0.00	na	0.00	0.20	0.00	0.10	0.00	0.26	0.00	0.03	0.00	0.00	0.00	0.00
July	194	0.00	0.20	0.52	0.10	0.00	na	0.00	0.05	0.30	0.00	0.00	0.38	0.00	0.00	0.60	0.54	0.30	0.00
July	195	0.46	0.00	0.00	0.00	0.00	na	0.10	0.00	0.00	0.00	0.65	0.02	0.00	0.63	0.00	0.14	0.30	0.00
July	196	0.00	0.00	0.27	0.00	0.00	na	0.01	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.08	0.00	0.00	0.00
July	197	0.99	0.00	0.33	0.25	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.19	2.33	0.00
July	198	0.00	0.00	0.05	0.00	0.78	na	0.00	0.03	0.00	0.00	0.07	0.00	0.10	0.00	0.00	0.00	0.00	0.00
July	199	0.00	0.00	0.36	0.12	0.00	na	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.23	0.00	0.00	0.02
July	200	0.00	0.02	0.00	0.00	0.00	na	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.00

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
	Day of																		
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
July	201	0.30	0.01	0.00	0.00	0.01	na	0.05	0.00	0.00	0.38	0.00	0.36	0.00	0.00	0.00	0.09	0.05	0.00
July	202	0.00	0.05	0.05	0.00	0.00	na	0.00	0.17	0.00	0.00	0.00	1.50	0.00	0.00	1.75	0.00	0.02	0.00
July	203	0.00	0.00	0.25	0.03	0.00	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	1.39	0.00
July	204	0.04	0.00	0.02	0.92	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.21	0.00	0.05	0.00
July	205	0.04	0.00	0.00	0.00	0.05	na	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
July	206	0.68	0.00	1.32	0.83	0.00	na	0.10	na	0.00	0.00	0.00	0.00	0.02	0.00	0.15	0.00	0.35	0.00
July	207	0.12	0.40	0.02	0.42	0.00	na	0.10	0.69	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.09	0.00	0.57
July	208	0.00	0.09	0.18	0.00	0.00	na	0.00	0.14	0.00	0.00	0.00	0.00	0.29	0.00	0.14	0.00	0.00	0.00
July	209	0.15	0.30	0.00	0.00	0.27	na	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
July	210	0.05	0.00	0.00	0.00	0.53	na	0.08	0.00	0.01	0.00	0.35	0.20	0.00	0.00	0.00	0.00	0.00	0.05
July	211	0.00	0.00	0.00	0.00	0.61	na	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July	212	0.00	0.00	0.00	0.00	0.00	na	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.10	0.00
Aug	213	0.00	0.00	0.45	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	214	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.03	0.00	na
Aug	215	0.00	0.01	0.00	0.00	0.11	1.90	0.00	0.00	0.20	0.37	0.00	0.03	0.00	0.00	0.00	0.00	0.00	na
Aug	216	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.08	na
Aug	217	0.00	0.00	0.00	0.00	0.65	0.02	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	218	0.00	0.00	0.06	0.00	0.65	0.30	0.02	0.00	0.21	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	219	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.01	0.33	0.00	0.00	0.17	0.00	0.05	0.00	0.00	na
Aug	220	2.64	0.00	0.28	0.00	0.00	0.00	0.04	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	221	0.23	0.48	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	222	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	na
Aug	223	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.02	na
Aug	224	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.40	0.04	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.18	na
Aug	225	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.08	na
Aug	226	0.13	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.38	0.66	0.00	0.00	0.00	0.00	0.17	0.00	0.00	na
Aug	227	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	228	0.02	0.53	0.00	0.00	0.35	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.19	0.00	0.11	0.00	0.00	na
Aug	229	0.14	0.11	0.00	0.05	0.05	0.60	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.15	0.00	na
Aug	230	0.00	0.10	0.00	0.04	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	231	0.20	0.00	0.00	0.05	0.55	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.12	0.00	0.00	0.00	na
Aug	232	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.64	0.00	0.00	na
Aug	233	0.00	0.60	0.19	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	234	0.11	0.07	0.08	0.00	0.55	0.16	0.00	0.01	0.10	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	na
Aug	235	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	236	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.02	0.22	0.16	0.00	0.00	0.02	0.77	0.00	0.00	0.00	na
Aug	237	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.05	0.00	0.00	0.00	na
Aug	238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	na
Aug	239	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.05	0.06	0.00	0.00	na
Aug	240	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	241	0.00	0.00	0.32	0.10	0.00	0.00	0.02	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	na
Aug	242	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.07	0.00	na
Aug	243	0.00	0.15	0.00	1.08	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.34	0.00	na
Sept	244	0.03	0.04	0.00	0.00	na	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	na	na
Sept	245	0.00	0.05	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Sept	246	0.00	0.00	0.01	0.00	na	0.00	0.68	0.15	0.00	0.00	0.00	0.00	0.00	0.23	0.11	0.00	0.00	na
Sept	247	0.00	0.00	0.00	0.00	na	0.00	0.00	0.02	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	na
Sept	248	0.00	0.00	0.34	0.26	na	0.00	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.06	na
Sept	249	0.00	0.00	0.63	0.00	na	0.00	0.00	0.00	0.22	0.00	0.00	0.61	0.00	0.00	0.70	0.00	0.18	na
Sept	250	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	na

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704		(1943-1999)													
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
	Day of																		
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Sept	251	0.00	0.00	0.00	0.00	na	0.00	0.00	0.02	0.21	0.00	0.12	0.00	0.26	0.54	0.00	0.00	0.00	na
Sept	252	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	na
Sept	253	0.00	0.00	0.00	0.02	na	0.20	0.00	0.22	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	na
Sept	254	0.00	0.00	0.00	0.01	na	0.00	0.00	0.70	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	na
Sept	255	0.63	0.00	0.00	0.00	na	0.00	0.24	0.00	0.48	0.05	0.34	0.00	0.00	0.00	0.00	0.00	0.01	na
Sept	256	0.01	0.19	0.00	0.25	na	0.02	0.00	0.02	0.00	0.26	0.00	0.00	0.15	0.00	0.09	0.00	0.00	na
Sept	257	0.00	0.00	0.00	1.06	na	0.51	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.07	0.00	0.02	na
Sept	258	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.02	na
Sept	259	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.45	0.00	na
Sept	260	0.00	0.30	0.00	0.00	na	0.00	0.00	0.02	0.15	0.17	0.00	0.11	0.00	0.00	0.00	0.00	0.00	na
Sept	261	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.92	na
Sept	262	0.00	0.00	0.00	0.00	na	0.00	0.01	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.92	na
Sept	263	0.00	0.05	0.00	0.00	na	0.00	0.14	0.00	0.00	0.50	0.00	0.25	0.00	0.00	0.20	0.08	0.65	na
Sept	264	0.00	0.00	0.00	0.00	na	0.00	0.00	0.03	0.00	0.00	1.78	0.00	0.00	0.00	0.00	0.10	0.00	na
Sept	265	0.00	0.00	0.00	0.00	na	0.00	0.15	0.04	0.00	0.00	0.07	0.00	0.16	0.03	0.00	0.36	0.00	na
Sept	266	0.00	0.00	0.00	0.00	na	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	na
Sept	267	0.00	0.00	0.00	0.00	na	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.22	na
Sept	268	0.00	0.01	0.01	0.00	na	0.04	0.50	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Sept	269	0.00	0.00	0.20	0.00	na	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	na
Sept	270	0.00	0.00	0.00	0.00	na	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Sept	271	0.00	0.00	0.00	0.23	na	0.11	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	na
Sept	272	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.01	na
Sept	273	0.00	0.00	0.17	0.43	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	na
Oct	274	0.06	0.00	0.00	0.51	na	0.00	0.00	0.04	0.00	2.05	0.31	0.00	0.00	0.00	0.00	0.13	0.00	0.00
Oct	275	0.12	0.00	0.00	0.00	na	0.00	0.05	0.96	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	276	0.00	0.00	0.00	0.00	na	0.00	0.05	1.52	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.16	0.00	0.00
Oct	277	0.00	0.00	0.00	0.00	na	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.33	0.10	0.00
Oct	278	0.00	0.00	0.48	0.00	na	0.18	0.01	0.27	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	2.91	0.00
Oct	279	0.00	0.00	0.00	0.24	na	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.08	0.22	0.00
Oct	280	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	281	0.63	0.00	0.05	0.02	na	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.35	0.60	0.25	8.00	0.00	0.00
Oct	282	0.21	0.00	0.00	na	na	0.00	0.07	0.15	0.45	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Oct	283	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
Oct	284	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.23	0.00	0.00	0.00
Oct	285	0.37	0.00	0.12	0.00	na	0.00	0.18	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	286	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.03	0.00	0.00	0.00
Oct	287	0.00	0.00	0.12	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
Oct	288	0.00	0.00	0.12	0.00	na	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
Oct	289	0.15	0.29	0.00	0.00	na	0.08	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.00	0.39	1.40	0.00	0.00
Oct	290	0.00	0.22	0.00	0.00	na	na	0.00	0.00	0.00	0.25	0.00	0.40	0.00	0.20	0.00	0.00	0.00	1.25
Oct	291	0.13	0.67	0.00	0.01	na	0.35	0.00	0.00	0.15	1.15	0.00	0.00	0.30	0.00	0.00	0.15	0.00	0.00
Oct	292	0.00	0.10	0.00	0.00	na	0.00	0.00	0.00	0.00	0.28	0.00	0.23	0.00	0.00	0.00	0.00	0.57	0.00
Oct	293	0.00	0.00	0.23	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.15	0.00	0.00	0.10
Oct	294	0.21	0.00	0.21	0.00	na	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
Oct	295	0.21	0.00	0.05	0.00	na	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na	0.50
Oct	296	0.00	0.00	0.00	0.00	na	0.00	0.42	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na	0.00
Oct	297	0.00	0.00	0.25	0.00	na	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	298	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	299	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na
Oct	300	0.00	0.00	0.00	0.02	na	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.28	0.00	0.25	na

Appendix B. Daily Precipitation (in.) for Deadwood, SD

sd220704 (1943-1999)

Source - SDSU Climate Center (Bender, 2000a) **na = not available**

Month	Day of Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Oct	**301**	0.00	0.11	0.00	0.35	na	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.19	0.00	0.00	0.30	0.00	na
Oct	**302**	0.20	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	4.20
Oct	**303**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	na	0.00
Oct	**304**	0.00	0.00	0.00	0.10	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	na	0.00
Nov	**305**	0.00	0.00	0.00	0.00	na	0.04	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**306**	0.00	0.00	0.00	0.70	na	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.55	0.50	0.00
Nov	**307**	0.00	0.00	0.00	0.00	na	0.00	0.03	0.00	0.46	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
Nov	**308**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.05	0.10	0.00	0.00	0.90	0.05	0.00	0.00	0.00
Nov	**309**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.15	0.00	0.80	0.00	0.00	0.10
Nov	**310**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.40	0.00	0.00	0.00	0.00	0.00
Nov	**311**	0.00	0.00	0.00	0.00	na	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.20	0.30	0.10
Nov	**312**	0.00	0.00	0.00	0.00	na	0.00	0.15	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
Nov	**313**	0.05	0.06	0.00	0.00	na	0.15	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
Nov	**314**	0.02	0.00	0.00	0.00	na	0.00	0.00	0.05	0.00	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.20	0.03
Nov	**315**	0.15	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Nov	**316**	0.00	0.00	0.00	na	na	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
Nov	**317**	0.00	0.07	0.00	na	na	0.00	0.08	0.00	0.00	0.26	0.00	0.00	0.05	0.10	0.00	0.03	0.00	0.00
Nov	**318**	0.00	0.41	0.00	0.00	na	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.20	0.05	0.00	0.00
Nov	**319**	0.00	0.14	0.00	0.00	na	0.00	0.00	0.00	0.70	0.00	0.05	0.00	0.20	0.00	0.00	0.00	0.10	0.00
Nov	**320**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.15	0.20	0.00	0.00	0.00	0.00	0.00	0.02	0.00
Nov	**321**	0.00	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Nov	**322**	0.00	0.00	0.56	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.00	0.20
Nov	**323**	0.00	0.00	0.18	na	na	0.00	0.23	0.25	0.00	0.05	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00
Nov	**324**	0.05	0.00	0.00	0.00	na	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**325**	0.19	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**326**	0.00	0.00	0.01	0.02	na	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00
Nov	**327**	0.00	0.07	0.11	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.20	0.00	0.02	0.00
Nov	**328**	0.09	0.00	0.02	0.00	na	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**329**	0.13	0.00	0.14	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**330**	0.00	0.00	0.00	0.00	na	0.41	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.00	0.57	0.00	0.00	0.20
Nov	**331**	0.25	0.00	0.00	0.00	na	0.18	0.00	0.00	0.00	0.05	1.35	0.05	0.00	0.00	0.00	0.00	na	0.00
Nov	**332**	0.10	0.00	0.00	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	**333**	0.00	0.00	0.00	0.00	na	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00
Nov	**334**	0.00	0.00	0.04	0.00	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00
Dec	**335**	0.00	0.50	0.01	0.00	na	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**336**	0.00	0.50	0.03	0.25	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.80
Dec	**337**	0.00	0.07	0.04	0.00	na	na	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00
Dec	**338**	0.00	0.00	0.00	0.00	na	na	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00
Dec	**339**	0.30	0.00	0.00	0.00	na	na	0.01	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.15	0.00	0.00
Dec	**340**	0.23	0.00	0.00	0.45	na	na	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.50	0.00	0.00	0.00
Dec	**341**	0.00	0.00	0.00	0.05	na	na	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**342**	0.00	0.02	0.00	0.00	na	na	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.10	0.00
Dec	**343**	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.15	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**344**	0.11	0.07	0.00	0.00	na	na	0.06	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**345**	0.04	0.00	0.00	0.00	na	na	0.00	0.00	0.15	0.05	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**346**	0.00	0.00	0.00	0.00	na	na	0.10	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Dec	**347**	0.00	0.00	0.05	0.00	na	na	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Dec	**348**	0.00	0.00	0.00	0.12	na	na	0.00	0.00	0.50	0.00	0.05	0.00	0.00	0.50	0.00	0.00	0.05	0.30
Dec	**349**	0.00	0.00	0.03	0.00	na	na	0.00	0.00	0.00	0.40	0.00	0.45	0.00	0.00	0.00	0.20	0.00	0.10
Dec	**350**	0.07	0.00	0.17	0.00	na	na	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21

				Appendix B. Daily Precipitation (in.) for Deadwood, SD															
				sd220704			(1943-1999)												
				Source - SDSU Climate Center (Bender, 2000a)										na = not available					
	Day of																		
Month	Yr	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Dec	351	0.00	0.00	0.01	0.00	na	na	0.25	0.00	0.00	0.00	0.05	0.00	0.00	0.40	0.70	0.00	0.00	na
Dec	352	0.00	0.00	0.00	0.00	na	na	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.30
Dec	353	0.00	0.00	0.00	0.00	na	na	1.01	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.15	0.00	0.00	na
Dec	354	0.00	0.00	0.02	0.00	na	na	0.16	0.00	0.02	0.00	0.10	0.10	0.00	0.00	0.05	0.05	0.00	0.10
Dec	355	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20	na
Dec	356	0.00	0.00	0.00	0.11	na	na	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.05	0.50	0.00	0.50	na
Dec	357	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.13	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	na
Dec	358	0.00	0.46	0.00	0.38	na	na	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.60
Dec	359	0.00	0.14	0.02	0.02	na	na	0.16	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	na
Dec	360	0.00	0.00	0.02	0.00	na	na	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	361	0.00	0.00	0.05	na	na	na	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	362	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	363	0.00	0.09	0.00	0.05	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	364	0.00	0.00	0.01	0.00	na	na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec	365	0.00	0.00	0.00	0.00	na	na	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29-Feb	366		0.00				na				0.00				0.00				0.00

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
	Day of								
Month	Yr	1997	1998	1999					
Jan	1	0.00	0.00	na					
Jan	2	0.00	0.00	0.10					
Jan	3	0.00	0.00	0.10					
Jan	4	1.00	0.00	0.40					
Jan	5	0.00	0.05	0.00					
Jan	6	0.00	0.00	0.10					
Jan	7	0.00	0.10	0.10					
Jan	8	0.00	0.00	0.13					
Jan	9	0.40	0.00	0.00					
Jan	10	0.00	0.00	0.00					
Jan	11	0.00	0.40	0.00					
Jan	12	0.00	0.00	0.00					
Jan	13	0.00	0.10	0.00					
Jan	14	0.00	0.00	0.00					
Jan	15	0.00	0.20	0.10					
Jan	16	0.20	0.00	0.00					
Jan	17	0.00	0.00	0.00					
Jan	18	0.00	0.00	0.00					
Jan	19	0.00	0.00	0.00					
Jan	20	0.00	0.40	0.00					
Jan	21	0.00	0.00	0.12					
Jan	22	0.00	0.10	0.00					
Jan	23	0.00	0.00	0.00					
Jan	24	0.00	0.00	0.00					
Jan	25	0.00	0.00	0.00					
Jan	26	0.15	0.00	0.00					
Jan	27	0.05	0.00	0.05					
Jan	28	0.00	0.05	0.00					
Jan	29	0.00	0.00	0.00					
Jan	30	0.00	0.00	0.00					
Jan	31	0.00	0.00	0.00					
Feb	32	0.00	0.00	0.05					
Feb	33	0.00	0.00	0.00					
Feb	34	1.30	0.00	0.00					
Feb	35	0.00	0.00	0.00					
Feb	36	0.00	0.00	0.00					
Feb	37	0.00	0.00	0.00					
Feb	38	0.00	0.00	0.05					
Feb	39	0.00	0.00	0.00					
Feb	40	0.00	0.00	0.00					
Feb	41	0.00	0.20	0.20					
Feb	42	0.10	0.00	0.00					
Feb	43	0.00	0.00	0.00					
Feb	44	0.00	0.00	0.00					
Feb	45	0.20	0.05	0.00					
Feb	46	na	0.00	0.50					
Feb	47	0.00	0.00	0.00					
Feb	48	0.00	0.15	0.20					
Feb	49	0.00	0.30	0.00					
Feb	50	0.00	0.20	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
Feb	51	0.00	0.00	0.05					
Feb	52	0.00	0.00	0.00					
Feb	53	0.10	0.00	0.10					
Feb	54	0.00	0.00	0.00					
Feb	55	0.00	0.10	0.00					
Feb	56	0.00	0.00	0.00					
Feb	57	0.00	0.00	0.20					
Feb	58	0.00	0.00	0.00					
Feb	59	0.10	0.00	0.00					
Mar	60	0.00	1.10	0.00					
Mar	61	0.00	0.00	0.05					
Mar	62	0.00	0.00	0.20					
Mar	63	0.40	0.20	0.00					
Mar	64	0.00	0.20	0.50					
Mar	65	0.00	0.00	0.00					
Mar	66	0.00	0.00	0.00					
Mar	67	0.00	0.00	0.00					
Mar	68	na	0.00	0.60					
Mar	69	0.00	0.00	0.20					
Mar	70	0.00	0.00	0.10					
Mar	71	0.00	0.00	0.00					
Mar	72	0.00	0.00	0.00					
Mar	73	0.00	0.00	0.00					
Mar	74	0.10	0.00	0.00					
Mar	75	0.00	0.00	0.00					
Mar	76	0.00	0.05	0.00					
Mar	77	na	0.00	0.00					
Mar	78	0.00	0.00	0.00					
Mar	79	0.00	0.00	0.00					
Mar	80	0.00	0.00	0.00					
Mar	81	0.00	0.00	0.00					
Mar	82	0.00	0.00	0.00					
Mar	83	0.20	0.00	0.00					
Mar	84	0.10	0.00	0.00					
Mar	85	0.00	0.00	0.00					
Mar	86	0.00	0.00	0.00					
Mar	87	0.15	0.80	0.40					
Mar	88	0.00	0.00	0.00					
Mar	89	0.00	0.00	0.00					
Mar	90	0.00	0.00	0.00					
Apr	91	0.00	0.00	1.20					
Apr	92	0.00	0.00	0.00					
Apr	93	0.00	0.00	0.60					
Apr	94	0.00	0.22	0.30					
Apr	95	1.80	0.05	0.00					
Apr	96	1.80	0.07	0.00					
Apr	97	0.50	0.00	0.00					
Apr	98	0.00	0.00	0.00					
Apr	99	0.00	0.11	0.02					
Apr	100	0.00	0.00	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
Apr	101	0.10	0.00	0.50					
Apr	102	0.10	0.45	0.28					
Apr	103	0.00	0.00	0.00					
Apr	104	0.00	0.40	0.20					
Apr	105	0.00	0.00	0.00					
Apr	106	0.00	0.00	0.05					
Apr	107	0.00	0.00	0.00					
Apr	108	0.00	0.32	0.00					
Apr	109	0.00	0.18	0.00					
Apr	110	0.00	0.00	0.00					
Apr	111	0.50	0.00	0.50					
Apr	112	0.45	0.00	0.50					
Apr	113	0.00	0.00	0.45					
Apr	114	0.00	0.00	0.01					
Apr	115	0.00	0.00	0.00					
Apr	116	0.00	0.00	0.10					
Apr	117	0.40	0.00	0.00					
Apr	118	0.05	0.00	0.00					
Apr	119	0.08	0.00	0.00					
Apr	120	0.15	0.00	0.00					
May	121	0.00	0.14	0.00					
May	122	2.00	0.00	0.00					
May	123	0.00	0.00	0.35					
May	124	0.00	0.00	0.49					
May	125	0.10	0.00	0.00					
May	126	0.00	0.00	0.00					
May	127	0.05	0.00	0.00					
May	128	0.00	0.00	0.20					
May	129	0.00	0.30	0.18					
May	130	0.00	0.11	0.48					
May	131	0.00	0.22	0.00					
May	132	0.00	0.00	0.00					
May	133	0.00	0.00	0.00					
May	134	0.00	0.00	0.08					
May	135	0.00	0.00	0.33					
May	136	0.00	0.00	0.28					
May	137	0.00	0.00	0.04					
May	138	0.00	0.00	0.00					
May	139	0.32	0.00	0.00					
May	140	0.00	0.21	0.00					
May	141	0.00	0.40	0.24					
May	142	0.18	0.00	0.00					
May	143	0.08	0.10	0.00					
May	144	0.00	0.00	0.00					
May	145	0.05	0.00	0.00					
May	146	0.60	0.00	0.00					
May	147	0.32	0.00	0.75					
May	148	0.08	0.00	0.00					
May	149	0.00	0.00	0.00					
May	150	0.00	0.00	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
May	151	0.00	0.00	0.00					
June	152	0.00	0.00	0.00					
June	153	0.16	0.00	0.75					
June	154	0.44	0.63	0.00					
June	155	0.00	na	0.07					
June	156	0.00	0.10	1.18					
June	157	0.00	0.00	0.25					
June	158	0.00	0.88	0.55					
June	159	0.00	0.00	0.18					
June	160	0.00	0.10	0.55					
June	161	0.00	0.00	1.17					
June	162	0.08	0.00	0.26					
June	163	0.47	0.00	0.28					
June	164	0.00	0.00	0.57					
June	165	0.00	0.64	0.77					
June	166	0.00	0.22	0.04					
June	167	0.00	0.27	0.00					
June	168	0.00	0.00	0.00					
June	169	0.10	2.10	0.00					
June	170	0.00	2.83	0.00					
June	171	0.00	0.18	0.00					
June	172	0.36	0.00	0.00					
June	173	0.00	0.00	0.00					
June	174	0.05	0.42	0.00					
June	175	0.00	0.15	0.00					
June	176	0.05	0.22	0.00					
June	177	0.00	0.00	0.00					
June	178	0.00	0.00	0.90					
June	179	0.02	0.00	0.00					
June	180	0.54	0.00	0.00					
June	181	0.00	0.00	0.00					
July	182	0.66	0.05	0.00					
July	183	0.11	0.00	0.00					
July	184	0.00	0.09	0.00					
July	185	0.00	0.00	0.01					
July	186	0.00	0.00	0.00					
July	187	0.00	0.00	0.00					
July	188	0.32	0.00	0.00					
July	189	0.00	0.13	0.00					
July	190	0.00	0.17	0.00					
July	191	0.00	0.00	0.00					
July	192	0.97	0.00	0.00					
July	193	1.30	0.35	0.00					
July	194	0.00	0.00	0.00					
July	195	0.00	0.00	0.00					
July	196	0.00	0.00	0.04					
July	197	0.00	0.00	0.00					
July	198	0.00	0.00	0.80					
July	199	0.99	0.00	0.00					
July	200	0.05	0.17	0.01					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
July	201	0.60	0.00	0.02					
July	202	0.00	0.00	0.00					
July	203	0.00	0.34	0.00					
July	204	0.15	0.35	0.00					
July	205	1.07	0.10	0.00					
July	206	0.00	0.00	0.00					
July	207	0.00	0.00	0.00					
July	208	0.00	0.00	0.00					
July	209	0.02	0.78	0.00					
July	210	0.25	0.28	0.08					
July	211	0.00	0.04	0.00					
July	212	0.00	0.00	0.00					
Aug	213	na	2.00	0.00					
Aug	214	0.00	0.10	0.00					
Aug	215	0.00	0.00	0.00					
Aug	216	0.00	0.36	0.00					
Aug	217	0.65	0.00	0.06					
Aug	218	0.03	0.00	2.09					
Aug	219	0.00	0.00	0.00					
Aug	220	0.00	0.00	0.00					
Aug	221	0.00	0.00	0.00					
Aug	222	0.08	0.20	0.00					
Aug	223	0.00	0.00	0.10					
Aug	224	0.00	0.08	0.82					
Aug	225	0.00	0.00	0.07					
Aug	226	0.24	0.00	0.00					
Aug	227	0.00	0.08	0.00					
Aug	228	0.00	0.00	0.00					
Aug	229	0.15	0.36	0.00					
Aug	230	0.00	0.00	0.00					
Aug	231	0.21	0.76	0.00					
Aug	232	0.00	0.00	0.00					
Aug	233	0.08	0.00	0.02					
Aug	234	0.00	0.00	0.00					
Aug	235	0.00	0.00	0.00					
Aug	236	0.00	0.00	0.00					
Aug	237	0.18	0.00	0.00					
Aug	238	0.00	0.00	0.00					
Aug	239	1.75	0.00	0.00					
Aug	240	0.00	0.00	0.31					
Aug	241	0.00	0.00	0.70					
Aug	242	0.00	0.00	0.00					
Aug	243	0.00	0.00	0.00					
Sept	244	0.00	0.00	0.00					
Sept	245	0.02	0.00	0.10					
Sept	246	0.00	0.00	0.26					
Sept	247	0.00	0.00	0.08					
Sept	248	0.00	0.00	0.00					
Sept	249	0.00	0.00	0.00					
Sept	250	0.00	0.00	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
	Day of								
Month	Yr	1997	1998	1999					
Sept	251	0.02	0.00	0.00					
Sept	252	0.00	0.00	0.00					
Sept	253	0.00	0.00	0.00					
Sept	254	0.00	0.01	0.10					
Sept	255	0.00	0.00	0.00					
Sept	256	0.00	0.60	0.00					
Sept	257	0.00	0.27	0.00					
Sept	258	0.00	0.00	0.00					
Sept	259	0.06	0.00	0.00					
Sept	260	0.00	0.00	0.00					
Sept	261	0.00	0.00	0.12					
Sept	262	0.00	0.00	0.00					
Sept	263	0.10	0.50	0.00					
Sept	264	0.12	0.12	0.00					
Sept	265	0.00	0.00	0.00					
Sept	266	0.68	0.00	0.00					
Sept	267	0.00	0.00	0.00					
Sept	268	0.00	0.00	0.15					
Sept	269	0.00	0.00	0.15					
Sept	270	0.00	0.00	0.00					
Sept	271	0.00	0.00	0.00					
Sept	272	0.00	0.00	0.00					
Sept	273	0.00	0.00	0.00					
Oct	274	0.00	0.00	0.16					
Oct	275	0.00	0.29	0.11					
Oct	276	0.00	1.00	0.00					
Oct	277	0.03	0.00	0.00					
Oct	278	0.00	na	0.00					
Oct	279	0.00	na	0.00					
Oct	280	0.00	0.00	0.00					
Oct	281	0.00	0.00	0.00					
Oct	282	0.60	0.00	0.00					
Oct	283	0.00	0.00	0.00					
Oct	284	0.00	0.00	0.00					
Oct	285	0.00	0.00	0.00					
Oct	286	0.18	0.00	0.00					
Oct	287	0.56	0.00	0.10					
Oct	288	0.05	0.35	0.00					
Oct	289	0.00	0.80	0.00					
Oct	290	0.00	0.00	0.08					
Oct	291	0.00	0.00	0.21					
Oct	292	0.00	0.00	0.00					
Oct	293	0.00	0.00	0.00					
Oct	294	0.03	0.00	0.00					
Oct	295	0.00	0.00	0.00					
Oct	296	0.00	0.00	0.00					
Oct	297	0.00	0.00	0.00					
Oct	298	0.40	0.00	0.00					
Oct	299	0.00	0.00	0.00					
Oct	300	0.00	0.05	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
Oct	301	0.00	0.80	0.00					
Oct	302	0.00	0.00	0.00					
Oct	303	0.00	0.00	0.00					
Oct	304	0.00	0.00	0.00					
Nov	305	na	0.00	0.00					
Nov	306	na	0.00	0.00					
Nov	307	na	0.40	0.00					
Nov	308	1.00	0.20	0.00					
Nov	309	na	0.10	0.00					
Nov	310	na	0.00	0.00					
Nov	311	na	0.00	0.00					
Nov	312	na	0.40	0.00					
Nov	313	na	0.00	0.00					
Nov	314	na	0.20	0.00					
Nov	315	na	0.00	0.00					
Nov	316	na	0.00	0.00					
Nov	317	na	0.00	0.00					
Nov	318	na	0.00	0.00					
Nov	319	na	0.00	0.00					
Nov	320	na	0.00	0.00					
Nov	321	na	na	0.00					
Nov	322	na	0.00	0.00					
Nov	323	na	0.00	0.60					
Nov	324	na	0.00	0.00					
Nov	325	na	0.00	0.00					
Nov	326	na	0.00	0.00					
Nov	327	na	0.00	0.00					
Nov	328	na	0.00	0.00					
Nov	329	na	0.00	0.00					
Nov	330	na	0.00	0.24					
Nov	331	na	0.00	0.00					
Nov	332	na	0.00	0.00					
Nov	333	na	0.00	0.00					
Nov	334	na	0.00	0.00					
Dec	335	0.00	0.00	0.00					
Dec	336	0.00	0.00	0.00					
Dec	337	0.00	0.00	0.10					
Dec	338	0.10	0.00	0.00					
Dec	339	0.00	0.00	0.00					
Dec	340	0.00	0.00	0.00					
Dec	341	0.00	0.00	0.00					
Dec	342	0.00	0.00	0.05					
Dec	343	0.10	0.00	0.00					
Dec	344	0.20	0.00	0.00					
Dec	345	0.00	0.00	0.00					
Dec	346	0.00	0.00	0.00					
Dec	347	0.00	0.00	0.20					
Dec	348	0.00	0.00	0.00					
Dec	349	0.00	0.00	0.40					
Dec	350	0.00	0.00	0.00					

		Appendix B. Daily Precipitation (in.) for Deadwood, SD							
		sd220704		(1943-1999)					
		Source - SDSU Climate Center (Bender, 2000a)						na = not available	
Day of									
Month	Yr	1997	1998	1999					
Dec	351	0.00	na	0.00					
Dec	352	0.30	0.00	0.00					
Dec	353	0.00	0.00	0.20					
Dec	354	0.00	0.35	0.00					
Dec	355	0.00	0.00	0.00					
Dec	356	0.00	0.00	0.25					
Dec	357	0.00	0.00	0.50					
Dec	358	0.05	0.00	0.00					
Dec	359	0.00	0.00	0.00					
Dec	360	0.00	0.00	0.00					
Dec	361	0.40	0.00	0.00					
Dec	362	0.00	0.20	0.00					
Dec	363	0.30	0.10	0.00					
Dec	364	0.00	na	0.00					
Dec	365	0.00	0.00	0.00					
29-Feb	366								

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	44	0	45	-11	12	-25	18	6	32	14	45	22	41	21	28	14	42	18
Jan	2	51	25	-2	-13	-6	-29	14	-6	38	7	38	21	42	27	31	10	40	20
Jan	3	51	41	21	-11	29	16	10	-16	36	17	37	25	52	22	45	22	35	27
Jan	4	43	1	14	-9	32	13	16	0	19	-7	45	22	50	39	45	15	34	16
Jan	5	2	-19	11	-10	38	15	11	-15	-4	-16	47	32	43	18	34	-7	46	23
Jan	6	-11	-19	14	3	34	23	-8	-18	7	-23	59	39	28	15	31	11	40	30
Jan	7	-9	-14	23	8	36	26	4	-16	12	-15	60	41	33	16	36	13	36	20
Jan	8	-6	-13	27	17	30	19	7	-7	42	9	51	25	37	20	42	30	39	20
Jan	9	-8	-17	34	12	47	25	10	-8	36	16	27	20	38	19	46	21	45	23
Jan	10	-3	-15	37	13	45	13	0	-14	19	-2	26	18	34	19	41	-8	25	15
Jan	11	-6	-20	36	17	33	17	-4	-22	4	-15	34	20	50	21	-3	-26	46	20
Jan	12	22	-10	28	18	40	-11	35	-13	31	-7	47	20	51	36	4	-29	30	-9
Jan	13	40	3	37	10	46	-21	39	31	37	-7	47	30	38	21	18	-18	12	-14
Jan	14	40	-2	46	18	45	6	39	28	44	36	46	29	40	17	18	-7	8	-5
Jan	15	9	-1	47	31	36	14	54	31	45	32	46	35	36	16	-3	-22	10	-10
Jan	16	50	2	42	31	47	26	49	36	41	3	42	19	20	6	-4	-18	18	-11
Jan	17	45	9	32	17	44	19	39	13	29	9	52	32	22	8	12	-7	29	5
Jan	18	50	38	42	20	47	33	20	8	43	12	53	42	31	18	30	-5	40	15
Jan	19	50	30	24	17	48	34	28	10	42	1	48	26	33	18	41	18	34	26
Jan	20	50	43	35	15	44	20	33	12	21	-7	28	18	21	9	40	20	27	15
Jan	21	51	34	45	15	25	14	44	28	32	17	27	13	18	1	32	19	17	-19
Jan	22	52	44	45	38	22	12	40	31	30	23	45	18	4	-16	40	24	21	-20
Jan	23	50	27	42	34	42	14	41	29	31	13	42	9	25	-18	52	34	23	10
Jan	24	35	26	52	34	50	23	45	31	38	20	30	2	18	0	49	11	24	12
Jan	25	40	21	54	32	48	41	39	19	47	34	43	16	22	-9	11	-17	32	16
Jan	26	40	31	33	18	48	30	47	30	37	25	45	33	21	-2	-9	-17	32	25
Jan	27	50	32	28	20	44	21	45	29	36	21	45	26	18	-17	-4	-25	36	19
Jan	28	48	19	40	22	48	33	33	24	39	26	39	8	39	12	-11	-24	42	31
Jan	29	30	8	42	12	44	23	33	18	47	34	35	2	44	15	21	-27	39	19
Jan	30	31	2	42	8	54	24	44	27	35	15	39	27	41	12	19	-9	38	0
Jan	31	45	22	51	28	51	36	40	23	19	-7	36	19	20	9	10	-10	0	-25
Feb	32	49	31	40	20	52	10	29	16	17	-3	35	20	43	13	13	-9	-5	-29
Feb	33	57	38	21	4	46	11	29	21	22	1	30	-1	48	30	8	-4	33	-19
Feb	34	60	43	43	0	47	24	26	-20	18	-1	23	-7	47	31	11	-12	38	21
Feb	35	52	39	40	26	45	11	31	-7	2	-19	27	8	32	9	17	2	37	-17
Feb	36	39	25	41	23	35	21	29	3	14	-13	18	-26	22	8	14	-8	43	11
Feb	37	35	25	36	17	47	23	31	19	9	0	5	-29	41	18	25	6	42	20
Feb	38	50	20	43	20	43	18	31	11	21	-3	0	-10	49	22	47	-3	44	25
Feb	39	21	-15	25	10	28	11	27	9	33	5	22	-10	52	24	43	27	39	18
Feb	40	20	-15	28	16	39	16	36	24	46	5	33	18	52	30	41	15	44	19
Feb	41	30	13	30	17	48	28	40	28	38	11	33	21	48	40	50	24	36	14
Feb	42	39	-8	27	5	50	28	42	28	24	3	30	5	46	27	46	32	42	6
Feb	43	5	-9	20	2	49	34	37	21	35	4	35	0	38	22	35	21	50	29
Feb	44	-5	-10	40	11	42	21	32	22	38	26	35	22	34	18	58	18	35	19
Feb	45	4	-10	48	19	36	22	41	21	42	33	32	19	28	14	52	39	31	12
Feb	46	36	-5	26	-14	29	15	39	29	43	30	41	25	40	3	59	37	30	-15
Feb	47	40	29	4	-19	34	15	38	27	48	39	52	26	52	22	61	43	45	28
Feb	48	40	30	13	-13	38	10	39	29	56	34	48	30	47	37	56	36	29	17
Feb	49	39	33	15	1	31	10	38	28	51	18	35	26	45	28	51	32	13	-7
Feb	50	39	32	20	2	21	3	32	21	20	10	32	16	47	26	57	36	20	-7

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	39	32	15	-8	16	1	23	15	13	0	45	12	43	22	54	35	36	4
Feb	52	37	23	9	-16	27	-4	28	6	15	2	47	20	25	19	48	33	35	12
Feb	53	32	26	0	-26	33	10	31	18	12	-4	23	-10	25	18	47	27	41	5
Feb	54	28	12	40	-6	36	15	34	24	16	-8	33	-1	39	8	44	33	35	-1
Feb	55	42	13	47	30	46	19	28	18	28	-1	43	24	38	26	40	22	46	13
Feb	56	41	34	50	32	41	18	28	12	25	6	49	28	39	20	37	23	50	8
Feb	57	40	31	34	18	20	2	32	12	12	-10	39	23	27	16	31	13	48	-3
Feb	58	42	33	43	23	19	0	29	11	14	-6	49	17	27	13	21	12	23	11
Feb	59	45	32	45	27	25	1	17	-4	18	0	49	24	40	12	29	4	16	5
Mar	60	46	24	50	20	31	15	16	-5	16	-11	54	20	30	20	31	7	26	0
Mar	61	42	28	57	41	40	23	17	-4	45	10	52	29	30	18	10	-11	23	5
Mar	62	49	19	54	41	38	29	21	-1	43	29	42	25	26	17	8	-12	12	-5
Mar	63	52	34	57	39	51	18	33	5	44	19	42	27	30	8	40	-7	35	-2
Mar	64	50	20	59	39	51	27	12	-8	37	23	34	21	27	11	47	30	43	-2
Mar	65	35	23	52	21	52	34	32	-2	36	20	29	18	20	6	54	37	32	19
Mar	66	32	17	52	29	55	33	34	11	43	20	40	11	28	4	51	19	29	19
Mar	67	38	10	44	25	53	38	20	2	46	35	47	29	40	11	33	14	39	18
Mar	68	35	19	34	25	46	34	15	-9	47	27	48	31	34	15	43	18	37	18
Mar	69	24	5	47	24	57	32	38	2	47	24	33	10	39	14	52	37	23	14
Mar	70	22	6	56	36	56	33	41	22	47	29	45	9	45	20	48	37	26	0
Mar	71	29	7	59	45	50	26	27	13	40	25	57	37	45	28	57	41	27	0
Mar	72	24	7	57	34	55	30	34	7	34	16	61	41	43	21	63	44	28	4
Mar	73	40	13	53	32	54	37	23	4	18	-1	59	34	39	28	61	32	35	9
Mar	74	39	11	57	38	48	17	25	-1	23	-1	56	32	39	15	36	19	28	9
Mar	75	44	20	60	33	56	33	41	18	34	-1	37	28	37	23	51	7	14	3
Mar	76	53	34	58	40	49	18	42	25	49	31	42	23	41	19	62	30	25	6
Mar	77	53	25	61	40	48	27	35	15	52	20	27	8	39	18	64	40	49	19
Mar	78	45	21	65	38	60	34	43	27	27	3	28	7	20	6	67	38	42	23
Mar	79	50	23	70	45	66	38	41	7	5	-11	25	5	19	10	62	32	37	19
Mar	80	49	30	72	53	65	43	14	-3	20	-14	28	-9	38	13	64	45	43	20
Mar	81	48	24	75	47	48	25	31	2	45	3	44	24	39	21	62	30	42	24
Mar	82	52	31	72	49	59	33	38	21	37	6	38	26	54	24	57	25	35	20
Mar	83	48	12	58	38	58	33	33	21	16	-8	36	20	43	19	62	32	41	25
Mar	84	49	28	55	30	51	33	44	20	10	-8	46	8	20	8	34	11	32	18
Mar	85	53	18	52	38	38	16	39	31	15	-9	44	10	28	-3	42	7	26	11
Mar	86	24	13	52	32	45	18	40	21	35	8	55	28	41	13	57	30	45	15
Mar	87	29	12	63	36	43	24	47	23	45	25	52	19	40	21	64	41	44	28
Mar	88	28	10	55	24	43	25	51	32	47	30	53	30	29	15	64	32	61	27
Mar	89	30	12	46	21	41	27	54	37	47	29	52	33	28	15	41	22	60	26
Mar	90	42	16	58	36	42	22	53	8	41	27	50	36	32	19	26	19	33	16
Apr	91	50	30	48	33	55	20	38	7	61	30	49	35	35	19	40	16	34	18
Apr	92	44	25	54	44	54	23	50	27	51	25	47	27	55	24	42	28	38	15
Apr	93	59	27	54	34	33	19	54	37	35	18	47	25	64	42	36	25	35	21
Apr	94	56	20	37	22	40	21	63	39	46	16	47	31	63	38	36	26	40	10
Apr	95	33	15	56	29	39	19	64	42	61	32	61	32	51	35	36	24	50	34
Apr	96	35	13	64	41	38	11	61	34	61	32	58	28	49	32	34	23	49	30
Apr	97	30	12	58	42	38	23	35	22	38	32	33	12	48	31	40	20	41	19
Apr	98	34	19	68	44	54	21	62	22	38	25	32	3	54	32	38	13	62	31
Apr	99	54	22	70	51	64	40	64	41	34	20	45	19	51	35	48	4	68	51
Apr	100	59	42	70	53	64	39	64	37	37	19	37	19	50	30	55	37	57	29

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	50	12	62	40	54	33	65	47	56	21	51	19	54	32	60	40	52	26
Apr	102	34	11	68	46	52	20	64	34	63	34	62	33	65	37	70	46	60	27
Apr	103	39	11	63	45	27	11	58	35	67	40	60	37	72	43	67	36	60	28
Apr	104	39	13	45	27	36	21	47	25	73	48	58	41	68	45	52	30	44	24
Apr	105	50	21	34	24	53	29	26	22	74	43	70	37	63	43	63	32	41	22
Apr	106	56	31	42	26	62	32	38	21	65	41	67	41	71	42	62	36	41	24
Apr	107	62	40	41	26	61	38	43	19	62	38	56	32	70	44	56	32	57	30
Apr	108	56	21	50	25	50	29	41	31	56	34	45	29	65	45	57	30	46	32
Apr	109	39	11	73	35	50	31	39	31	48	37	57	27	68	44	59	39	41	27
Apr	110	44	27	78	51	57	33	48	27	64	41	61	43	72	48	49	29	52	32
Apr	111	35	12	76	36	65	42	45	32	71	39	55	33	71	52	42	29	62	35
Apr	112	40	23	50	30	61	38	36	21	66	31	60	32	61	36	59	32	62	35
Apr	113	46	30	56	30	59	34	48	19	36	25	58	48	47	33	60	34	58	36
Apr	114	48	32	62	34	46	38	52	32	41	27	59	45	44	32	47	32	57	30
Apr	115	60	36	74	40	51	37	58	35	44	27	57	33	65	39	53	27	42	26
Apr	116	59	28	73	47	68	39	58	39	62	31	48	34	58	44	53	26	38	24
Apr	117	50	23	82	52	73	38	48	31	74	47	45	28	70	45	50	23	33	22
Apr	118	50	37	81	50	68	46	54	37	75	56	37	22	65	54	66	33	32	22
Apr	119	42	16	73	39	55	27	56	30	76	53	37	27	70	44	66	47	34	22
Apr	120	22	11	45	34	35	25	61	41	74	34	48	31	66	42	51	29	37	19
May	121	32	8	42	28	40	19	60	45	35	25	49	40	45	33	45	17	36	27
May	122	40	25	42	20	48	26	63	36	35	28	55	40	45	31	51	24	35	28
May	123	61	33	54	32	54	30	63	41	54	29	64	44	39	26	49	23	45	27
May	124	72	50	53	40	64	36	55	29	54	29	63	43	42	29	65	32	49	28
May	125	70	29	51	41	78	48	33	27	46	28	50	27	41	29	67	48	49	30
May	126	48	26	50	32	80	58	36	28	57	33	47	28	44	25	72	48	62	28
May	127	50	32	65	31	68	34	49	34	63	38	48	28	53	36	78	51	46	28
May	128	48	32	71	54	80	52	55	35	60	37	74	42	58	30	78	39	50	28
May	129	53	25	70	44	76	58	67	39	48	33	71	49	69	41	70	32	54	29
May	130	60	40	64	42	62	33	72	46	67	40	70	41	69	51	77	56	56	33
May	131	60	41	52	39	54	35	68	32	68	49	46	23	66	47	75	34	59	36
May	132	53	33	59	38	69	34	47	35	62	37	35	23	70	53	48	25	55	39
May	133	59	37	63	42	74	53	45	31	58	38	48	28	77	53	41	28	54	39
May	134	58	36	63	47	76	54	43	28	47	36	59	36	73	57	40	26	73	40
May	135	57	33	63	34	75	51	54	34	57	32	65	39	62	41	36	29	82	54
May	136	53	42	35	25	74	48	62	47	57	36	67	40	55	28	39	27	79	56
May	137	51	36	59	28	74	49	68	47	45	35	67	48	53	34	41	31	69	36
May	138	61	34	70	42	71	46	68	50	44	32	68	46	43	22	48	30	69	49
May	139	57	40	70	47	56	35	71	42	44	29	68	49	35	28	52	33	69	44
May	140	60	40	50	30	50	34	69	49	47	33	65	47	34	24	53	38	48	34
May	141	63	47	52	27	60	40	59	46	51	31	56	42	40	31	49	42	38	30
May	142	66	52	61	35	64	35	62	49	63	35	67	45	54	31	54	41	51	29
May	143	63	48	57	40	77	48	69	45	70	45	72	47	58	42	54	32	58	36
May	144	51	38	57	37	75	51	61	37	67	50	73	51	79	45	55	32	56	43
May	145	43	32	66	37	79	43	62	40	69	48	71	40	75	47	56	39	52	40
May	146	55	33	65	45	71	48	75	49	78	57	66	50	54	44	64	47	40	32
May	147	74	40	73	45	57	27	74	60	88	57	75	55	55	41	63	30	58	31
May	148	78	55	72	44	56	30	67	47	83	61	73	37	57	37	61	39	55	40
May	149	70	40	74	40	62	40	59	41	78	54	67	35	56	35	64	42	52	40
May	150	50	39	74	52	64	45	79	43	67	51	75	48	56	43	68	43	44	34

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	49	40	70	48	79	44	80	56	73	58	70	39	61	51	77	48	35	26
June	152	53	41	67	45	80	59	59	41	73	46	74	51	65	39	75	43	56	28
June	153	64	48	68	40	79	47	69	38	75	55	83	59	60	43	56	38	65	39
June	154	74	45	52	33	75	46	73	50	63	48	83	61	60	38	58	39	60	36
June	155	82	47	58	34	83	49	71	41	73	55	70	51	58	45	59	43	46	43
June	156	72	50	62	42	84	54	70	39	73	54	64	54	54	43	67	41	46	36
June	157	68	48	62	45	79	45	70	43	76	48	71	50	48	33	64	45	57	38
June	158	52	45	72	49	85	61	59	33	57	40	69	44	62	32	52	34	64	44
June	159	63	46	72	47	82	62	63	41	71	46	66	49	56	35	57	39	64	45
June	160	61	42	58	47	78	46	66	46	68	52	69	44	65	49	66	35	82	55
June	161	58	44	67	44	67	47	80	53	64	49	77	49	60	43	73	49	82	60
June	162	55	43	78	49	79	54	77	52	73	53	74	41	58	47	71	54	61	43
June	163	57	43	78	56	78	42	58	45	72	51	69	51	51	31	64	39	50	36
June	164	61	45	71	59	79	55	62	52	62	50	74	53	55	31	52	42	60	40
June	165	63	45	81	60	78	56	73	45	81	51	64	44	60	42	66	38	65	35
June	166	76	46	80	51	76	55	59	49	80	50	62	44	66	40	65	46	75	51
June	167	73	48	81	65	67	52	59	45	71	52	71	52	69	40	62	45	79	56
June	168	80	62	73	54	73	46	55	39	77	49	74	51	69	51	65	49	85	60
June	169	89	60	82	51	80	55	56	34	80	61	89	52	68	46	74	47	76	49
June	170	89	70	88	66	85	61	57	36	68	53	87	52	65	46	73	46	71	43
June	171	79	57	92	69	88	68	69	39	68	51	80	53	63	50	67	51	69	47
June	172	73	52	82	68	86	66	73	45	71	55	80	54	68	48	63	44	75	42
June	173	73	50	83	55	78	60	74	52	84	60	80	45	68	43	68	48	74	52
June	174	73	50	87	62	77	58	80	57	86	69	79	55	69	49	65	51	67	42
June	175	69	45	72	52	85	62	85	56	85	57	74	47	71	49	60	40	87	42
June	176	73	49	76	52	83	50	86	51	74	47	85	62	82	52	69	45	86	53
June	177	71	55	85	51	70	50	87	61	74	52	85	46	77	55	70	49	69	45
June	178	82	55	87	61	75	41	87	59	86	59	69	47	74	46	69	47	70	50
June	179	89	69	86	61	84	59	85	63	86	58	73	51	64	44	81	55	79	47
June	180	87	67	86	66	89	54	84	61	77	55	72	39	71	44	82	65	91	65
June	181	79	61	82	57	88	67	87	62	72	50	70	49	67	48	85	56	87	55
July	182	85	60	78	52	83	58	85	66	73	50	71	45	66	44	83	50	68	45
July	183	87	68	88	54	76	55	78	55	77	57	77	56	55	39	85	65	72	45
July	184	78	59	87	61	80	60	72	53	71	52	77	56	52	39	86	55	77	56
July	185	67	59	88	70	84	62	74	54	71	55	79	58	50	34	86	70	85	61
July	186	65	54	85	56	84	54	78	57	76	49	80	64	79	39	81	42	73	57
July	187	83	55	88	48	81	50	72	50	82	54	80	58	79	59	89	50	83	52
July	188	84	56	82	54	90	65	79	48	89	68	78	62	65	53	91	70	82	65
July	189	84	53	78	58	88	53	77	54	86	61	86	64	78	57	89	60	85	60
July	190	73	49	62	46	77	46	73	54	86	51	87	63	81	51	87	59	85	69
July	191	72	50	75	46	80	54	67	50	84	59	88	71	75	51	87	68	87	71
July	192	66	51	72	46	80	47	72	48	70	47	87	61	75	55	80	59	78	55
July	193	64	50	77	42	77	55	82	60	74	49	83	69	77	50	77	57	81	60
July	194	75	48	86	74	74	47	81	58	89	55	86	62	81	58	80	52	79	52
July	195	75	48	93	60	80	55	86	55	88	48	86	58	80	57	85	62	72	49
July	196	73	47	95	74	80	59	84	45	86	60	85	56	72	54	91	61	71	49
July	197	83	49	92	67	76	51	72	42	85	59	82	50	68	47	88	65	80	56
July	198	90	51	85	55	77	45	78	51	74	58	74	45	71	51	76	60	87	63
July	199	92	69	90	70	76	56	69	53	75	55	75	54	58	47	86	63	86	58
July	200	81	68	86	63	77	48	64	53	76	50	85	55	61	43	83	57	86	56

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	79	69	90	61	75	48	71	53	77	52	91	63	65	40	75	44	86	60
July	202	72	52	82	61	78	58	70	55	83	60	89	62	69	48	85	58	87	66
July	203	70	43	87	61	83	60	84	54	75	53	68	45	78	51	84	57	86	57
July	204	82	44	87	53	75	45	83	66	61	51	76	54	81	62	83	61	95	71
July	205	81	61	90	54	64	40	81	60	70	50	81	57	81	53	82	58	92	74
July	206	89	58	90	53	75	42	80	53	79	58	87	63	73	41	89	55	87	68
July	207	82	67	91	62	84	59	84	65	71	52	89	65	67	48	86	60	87	60
July	208	82	62	89	66	81	58	85	57	67	44	87	64	64	44	87	63	93	64
July	209	83	52	76	56	77	47	82	60	79	58	86	66	73	53	93	69	93	77
July	210	80	51	73	55	88	52	82	53	85	61	82	60	72	51	90	63	89	65
July	211	84	52	82	54	86	59	81	54	81	46	77	59	70	49	74	57	79	58
July	212	83	58	85	61	64	47	79	52	74	45	75	62	76	45	70	51	76	54
Aug	213	88	59	81	70	71	41	78	60	84	50	74	60	64	47	72	55	77	47
Aug	214	84	64	81	60	70	49	77	56	91	62	79	50	60	48	89	60	79	49
Aug	215	81	49	73	48	61	47	67	51	88	60	82	61	67	45	86	61	90	67
Aug	216	89	51	79	47	63	45	67	50	85	68	81	67	77	52	85	64	88	56
Aug	217	90	67	82	62	63	47	75	44	76	56	80	60	83	56	77	60	66	45
Aug	218	89	58	74	55	62	50	75	54	75	51	82	52	77	55	81	63	71	48
Aug	219	73	56	69	47	80	47	75	54	71	56	90	68	71	52	80	56	78	46
Aug	220	75	57	69	48	80	54	68	49	75	56	90	54	75	53	75	51	74	46
Aug	221	79	61	70	45	72	51	63	49	74	50	88	47	75	53	88	64	69	36
Aug	222	82	57	79	55	64	51	71	42	68	52	64	41	75	53	85	59	77	52
Aug	223	81	60	85	58	80	50	83	54	82	58	67	41	76	51	65	46	75	49
Aug	224	76	64	82	56	83	60	78	57	82	60	77	51	77	55	64	46	70	43
Aug	225	81	60	72	49	83	58	78	52	84	57	77	51	75	54	56	44	83	54
Aug	226	83	57	72	56	86	62	70	48	89	68	83	55	74	51	64	43	80	62
Aug	227	92	62	83	51	88	67	71	52	88	53	89	66	71	53	77	54	81	62
Aug	228	90	63	72	44	83	57	70	53	76	57	87	64	70	59	76	53	80	58
Aug	229	79	52	68	44	78	55	76	56	79	59	86	66	75	58	81	63	81	55
Aug	230	81	53	81	52	81	59	75	51	84	58	80	51	75	54	77	56	79	55
Aug	231	82	58	84	63	80	53	76	53	81	57	66	51	70	59	85	65	78	55
Aug	232	88	63	88	66	90	67	68	49	87	64	65	52	71	53	85	49	79	53
Aug	233	88	66	87	63	82	51	67	46	84	52	84	55	70	54	67	46	83	59
Aug	234	80	57	84	55	58	40	71	46	82	47	79	61	68	43	53	46	80	58
Aug	235	89	59	81	59	57	44	76	57	81	54	79	45	70	56	73	40	70	48
Aug	236	87	52	65	32	57	43	82	54	86	57	73	58	69	42	81	52	77	44
Aug	237	78	54	59	30	69	41	81	60	88	59	62	35	68	51	81	50	84	60
Aug	238	89	58	81	44	67	49	82	62	86	59	64	38	61	48	75	56	84	48
Aug	239	89	55	80	53	59	38	80	53	83	59	74	45	75	50	66	50	65	45
Aug	240	64	44	79	51	63	31	82	66	75	40	78	58	70	50	66	42	69	46
Aug	241	83	53	81	61	78	49	78	50	84	50	75	56	67	39	83	52	73	43
Aug	242	83	54	65	41	76	57	82	57	81	62	81	54	79	47	76	52	82	49
Aug	243	83	53	75	46	83	54	65	46	82	57	80	48	83	58	72	55	78	43
Sept	244	63	51	74	51	85	60	75	53	81	63	58	39	84	62	79	50	64	40
Sept	245	68	52	72	44	81	53	75	52	70	50	65	40	83	65	79	62	77	46
Sept	246	68	50	73	46	70	55	79	48	85	62	74	42	71	55	84	62	75	47
Sept	247	62	40	72	55	75	54	84	65	87	59	84	59	73	57	87	67	85	57
Sept	248	66	46	62	41	74	48	83	63	86	64	84	52	70	54	85	68	78	43
Sept	249	64	47	81	45	60	45	78	56	86	61	67	42	72	52	80	63	78	57
Sept	250	67	48	80	46	49	36	74	46	79	52	72	50	70	49	73	63	75	54

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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	72	52	57	34	64	40	80	55	75	53	82	51	56	43	68	49	80	57
Sept	252	76	54	68	40	70	50	76	51	78	63	75	46	69	40	86	58	72	35
Sept	253	78	55	76	51	81	50	63	48	79	47	70	51	67	41	84	64	73	42
Sept	254	78	56	71	39	78	54	55	45	71	45	80	51	63	43	70	39	76	60
Sept	255	68	44	47	40	84	62	63	41	73	52	79	53	60	36	60	37	73	51
Sept	256	60	40	52	40	79	62	61	38	82	55	61	35	51	31	68	47	76	44
Sept	257	59	47	67	47	72	48	68	50	81	51	56	32	62	35	67	36	73	59
Sept	258	70	41	76	53	79	45	41	31	56	44	77	46	60	37	46	29	73	43
Sept	259	72	55	87	61	79	40	38	28	54	38	74	43	67	40	61	29	65	42
Sept	260	70	54	83	62	77	40	36	29	65	35	80	55	72	45	60	44	65	42
Sept	261	76	40	78	57	56	37	45	31	77	49	88	61	73	41	61	36	65	44
Sept	262	65	36	78	57	64	37	66	37	68	39	89	63	73	52	75	47	63	41
Sept	263	68	47	81	56	64	43	65	34	52	34	85	65	60	31	79	47	75	41
Sept	264	59	35	73	60	73	41	41	31	61	32	72	36	67	37	72	46	81	43
Sept	265	43	35	78	41	71	55	45	28	63	40	55	38	78	54	61	41	80	53
Sept	266	54	36	55	37	58	35	63	40	42	33	63	44	71	44	68	31	80	48
Sept	267	69	36	68	45	57	36	59	33	36	25	71	41	68	52	78	45	80	52
Sept	268	80	55	46	29	62	47	34	23	45	19	71	44	62	39	75	40	76	32
Sept	269	85	62	57	24	71	54	40	16	60	36	82	54	40	31	73	41	56	34
Sept	270	84	57	68	44	70	53	42	33	65	38	81	54	52	34	64	40	68	41
Sept	271	80	59	76	52	64	52	39	30	63	40	74	49	49	38	54	31	72	44
Sept	272	79	60	72	55	70	36	34	29	65	40	75	49	48	33	45	28	72	42
Sept	273	79	55	69	50	65	50	49	19	65	41	78	58	61	35	66	34	81	44
Oct	274	75	42	72	52	55	39	67	37	65	38	75	49	67	42	78	44	72	52
Oct	275	74	50	72	48	60	43	75	44	76	48	74	56	62	43	75	36	72	42
Oct	276	76	55	62	35	54	38	70	44	70	50	75	56	58	35	49	29	73	47
Oct	277	77	60	60	38	61	31	69	40	51	36	71	31	45	29	65	36	72	44
Oct	278	74	51	55	35	57	46	75	52	38	30	54	31	57	33	51	26	69	37
Oct	279	70	54	67	40	59	39	69	32	43	33	54	40	54	28	59	25	66	40
Oct	280	68	31	74	52	68	39	52	28	54	30	49	31	42	25	76	42	54	27
Oct	281	40	30	73	47	74	46	52	30	51	30	54	35	53	19	65	36	62	20
Oct	282	50	27	83	57	78	47	57	37	57	37	47	35	74	46	31	26	62	42
Oct	283	50	35	82	54	75	54	52	35	46	29	54	30	67	46	35	27	67	36
Oct	284	36	15	85	58	65	47	42	32	55	30	48	30	48	29	57	29	64	28
Oct	285	35	13	77	57	59	39	42	31	69	49	41	25	53	31	71	40	60	22
Oct	286	52	26	69	43	59	41	45	30	72	53	48	24	58	37	65	41	62	43
Oct	287	52	43	69	48	68	42	60	34	67	34	64	34	63	42	67	37	67	46
Oct	288	53	36	72	50	62	34	63	42	42	30	70	44	59	40	67	45	80	35
Oct	289	57	29	79	56	52	29	69	41	47	26	75	48	47	38	65	35	70	38
Oct	290	53	27	70	49	51	38	66	41	42	28	73	50	57	37	57	47	66	24
Oct	291	50	23	50	31	49	28	65	43	39	27	70	53	65	44	67	41	28	11
Oct	292	71	41	33	23	32	24	63	30	32	15	66	37	61	47	65	16	43	20
Oct	293	60	42	54	13	31	20	62	30	39	21	67	44	68	35	24	17	38	23
Oct	294	62	40	53	34	39	18	62	36	48	36	71	54	74	43	37	13	47	29
Oct	295	56	33	65	39	42	36	42	31	44	31	64	38	75	46	50	33	39	6
Oct	296	58	32	59	40	48	31	60	27	59	40	38	31	77	37	43	25	60	10
Oct	297	60	33	55	35	44	30	63	55	63	47	67	24	70	36	36	20	56	33
Oct	298	62	34	66	46	31	19	60	27	55	23	67	39	57	33	42	24	44	24
Oct	299	61	33	60	24	25	11	68	34	40	14	49	39	59	44	43	30	34	22
Oct	300	53	33	31	18	30	5	67	42	46	30	58	32	62	44	51	39	33	11

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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	71	34	48	17	41	13	59	42	31	12	52	36	65	36	63	43	28	7
Oct	302	66	55	69	40	49	25	42	20	32	9	63	35	72	42	56	34	25	4
Oct	303	59	33	61	42	42	25	34	21	30	18	67	40	72	47	59	32	37	19
Oct	304	49	31	55	35	35	20	31	23	45	19	60	43	65	31	45	32	40	28
Nov	305	53	35	36	26	20	-11	32	21	58	36	63	37	67	42	59	28	56	31
Nov	306	64	33	45	17	32	4	44	21	52	29	59	48	57	33	54	30	66	39
Nov	307	67	45	57	35	47	17	51	30	43	21	55	41	62	43	62	32	67	42
Nov	308	66	43	36	25	48	30	50	34	57	29	58	34	66	40	56	53	63	44
Nov	309	68	42	40	20	42	29	47	35	55	35	66	37	61	45	68	41	63	41
Nov	310	65	44	53	35	34	26	46	26	52	39	57	39	52	43	68	45	69	44
Nov	311	59	30	58	40	44	29	48	30	43	28	40	26	52	33	60	27	63	41
Nov	312	60	33	62	43	47	30	45	35	44	27	50	27	47	23	37	22	68	50
Nov	313	65	51	56	30	41	-1	51	31	50	29	60	43	59	35	37	22	57	44
Nov	314	69	34	50	28	37	-11	62	42	63	29	49	30	53	22	40	33	53	39
Nov	315	38	25	62	42	0	-19	64	47	60	42	60	31	30	18	35	11	58	37
Nov	316	32	25	61	45	23	-15	56	35	57	29	52	37	29	16	12	2	60	36
Nov	317	29	15	47	29	40	8	48	31	44	25	58	30	25	10	7	-6	56	39
Nov	318	17	5	36	18	42	32	54	42	38	30	54	21	29	10	8	-10	49	32
Nov	319	19	7	40	21	42	29	59	36	47	21	25	12	36	14	25	5	40	31
Nov	320	28	11	39	22	33	18	53	28	58	40	24	4	42	27	43	21	43	35
Nov	321	39	20	48	25	31	19	48	18	60	31	30	11	38	24	38	32	40	27
Nov	322	53	36	49	21	37	24	60	36	52	37	30	21	38	23	51	33	53	26
Nov	323	55	45	44	27	43	27	55	36	52	31	51	21	49	21	57	44	62	43
Nov	324	47	30	33	24	48	25	62	37	54	43	52	42	47	23	51	30	58	48
Nov	325	32	22	56	26	49	35	51	32	51	27	51	36	39	15	35	20	66	45
Nov	326	41	20	49	32	38	17	47	29	36	21	60	38	45	30	38	20	55	40
Nov	327	57	39	44	23	36	12	52	40	50	32	50	37	55	31	55	19	54	39
Nov	328	55	39	40	25	40	26	44	30	57	33	52	35	53	31	44	17	48	27
Nov	329	57	32	59	25	51	32	49	23	54	36	66	43	34	20	38	8	52	27
Nov	330	60	36	55	21	44	18	41	21	51	35	58	33	37	26	48	24	46	25
Nov	331	55	21	27	14	19	3	24	11	47	32	58	31	31	19	46	32	46	18
Nov	332	42	12	34	19	23	-3	43	12	37	29	58	47	23	14	39	28	54	33
Nov	333	55	36	32	21	42	14	48	30	43	21	51	34	36	10	40	27	44	30
Nov	334	58	34	31	10	43	28	43	22	45	30	35	23	38	26	34	20	48	25
Dec	335	48	28	47	16	49	28	48	27	35	29	37	19	32	17	50	23	58	42
Dec	336	48	16	50	38	41	32	46	22	30	21	47	20	52	26	57	28	54	30
Dec	337	22	-3	44	20	53	28	37	16	39	17	57	35	55	32	48	41	37	21
Dec	338	5	-7	39	11	67	36	39	27	45	27	51	30	52	24	48	33	37	16
Dec	339	7	-10	21	10	53	39	40	19	45	28	50	31	55	36	44	29	35	12
Dec	340	0	-11	36	17	44	34	20	3	38	23	32	24	51	36	41	22	30	5
Dec	341	6	-13	39	19	41	30	29	9	44	10	27	18	42	29	46	26	22	-5
Dec	342	22	-12	39	27	48	25	35	25	43	24	20	12	55	29	27	9	23	-11
Dec	343	42	15	41	29	45	28	35	14	50	27	27	5	56	41	25	4	17	-27
Dec	344	38	5	36	23	34	22	53	24	60	34	25	6	46	17	28	12	22	-12
Dec	345	11	2	37	19	32	19	24	9	56	38	27	11	37	12	19	-2	29	10
Dec	346	42	5	40	22	29	20	20	9	48	27	19	-1	33	24	20	0	26	-23
Dec	347	40	22	51	24	27	19	43	12	50	25	11	-2	36	13	22	-10	26	-21
Dec	348	23	1	48	34	29	18	50	29	54	25	22	6	47	29	10	-11	49	-16
Dec	349	28	8	51	23	29	22	42	31	45	34	14	-8	43	17	19	-8	41	31
Dec	350	30	1	45	33	35	17	37	20	49	23	22	-11	20	13	37	17	47	27

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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1909	1909	1910	1910	1911	1911	1912	1912	1913	1913	1914	1914	1915	1915	1916	1916	1917	1917
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	5	-8	46	23	35	20	35	21	48	21	33	3	25	13	37	20	54	35
Dec	352	15	-8	35	28	29	20	25	21	43	33	26	12	23	13	22	7	53	39
Dec	353	18	0	36	31	37	18	37	12	35	11	31	0	30	13	30	2	55	44
Dec	354	18	2	47	32	32	22	34	19	32	2	31	-1	40	18	31	-19	52	25
Dec	355	18	-4	45	28	23	11	22	13	32	13	22	-2	45	25	13	-22	36	19
Dec	356	18	3	29	17	33	13	18	12	28	15	29	18	48	30	22	-8	52	19
Dec	357	28	8	31	16	38	29	29	8	32	9	35	24	34	23	27	10	49	19
Dec	358	24	0	41	29	30	9	40	22	23	14	39	21	26	18	27	7	21	-5
Dec	359	30	12	34	22	23	5	35	25	39	8	33	10	39	16	22	-9	40	3
Dec	360	33	14	34	20	15	3	27	12	35	22	33	20	35	7	25	-12	46	27
Dec	361	29	15	35	18	29	0	30	12	35	22	33	19	20	4	-12	-18	38	-18
Dec	362	28	12	28	19	25	-6	48	26	44	24	32	20	35	11	9	-17	11	-20
Dec	363	41	17	29	12	-3	-21	46	25	38	17	25	15	33	-1	43	9	46	-18
Dec	364	49	32	38	23	17	-20	31	17	35	23	31	19	10	-10	21	2	51	30
Dec	365	47	38	33	11	19	5	37	26	42	24	43	22	32	-3	15	3	46	29
29 Feb	366							33	18							35	20		

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	51	42	6	-6	27	11	26	17	47	12	31	22	9	-19	32	-1	46	20
Jan	2	55	40	5	-19	39	24	37	24	41	22	29	21	7	-7	29	19	50	27
Jan	3	54	45	29	-7	35	25	36	28	24	13	35	24	1	-10	28	20	48	25
Jan	4	49	34	24	13	44	19	33	24	17	5	32	20	-3	-12	29	17	29	22
Jan	5	36	19	34	16	50	34	47	22	18	7	29	13	38	-6	34	16	30	18
Jan	6	26	18	38	20	39	11	45	21	29	9	39	24	47	37	33	19	33	13
Jan	7	35	14	52	30	20	6	27	14	30	19	44	32	50	29	23	16	27	11
Jan	8	34	21	43	32	26	6	25	15	39	15	44	26	48	34	24	10	27	21
Jan	9	30	-10	52	35	33	19	30	18	46	35	42	24	39	5	21	8	39	25
Jan	10	2	-19	57	36	28	15	24	8	43	17	48	32	31	1	29	9	38	24
Jan	11	-8	-30	49	30	34	9	18	10	24	17	48	29	28	10	27	14	25	9
Jan	12	12	-21	43	28	38	33	40	9	24	18	33	20	15	5	20	2	29	14
Jan	13	21	5	32	21	43	23	36	2	38	23	30	21	25	1	20	5	44	28
Jan	14	25	12	41	23	48	35	35	18	40	19	34	0	26	5	20	3	41	29
Jan	15	20	7	53	31	46	36	48	34	22	6	40	24	21	2	18	-4	41	25
Jan	16	16	1	42	24	37	26	46	9	31	6	47	29	4	-10	29	10	41	22
Jan	17	11	3	53	33	43	13	35	9	13	-8	50	40	20	-3	33	24	50	25
Jan	18	22	0	57	39	51	39	51	27	-3	-19	48	26	19	-8	42	26	41	21
Jan	19	18	-5	57	32	49	18	53	36	16	-18	36	19	2	-11	41	31	21	0
Jan	20	20	-2	54	33	44	-5	39	30	17	8	31	22	17	-2	40	18	21	9
Jan	21	26	9	45	30	23	-2	39	18	17	5	29	21	34	13	45	35	18	4
Jan	22	26	15	43	27	16	-13	35	20	10	-8	44	16	40	31	49	24	18	-4
Jan	23	33	24	48	35	5	-15	34	20	27	-10	42	23	41	27	50	35	34	9
Jan	24	36	24	47	26	15	-6	27	15	31	12	41	10	38	23	44	28	35	20
Jan	25	32	11	37	15	47	25	34	10	30	19	39	22	27	-7	37	-2	29	16
Jan	26	13	-14	38	20	44	7	46	17	32	16	30	18	42	25	23	-5	27	22
Jan	27	25	-13	35	22	41	1	49	28	41	20	24	15	45	32	37	18	32	25
Jan	28	16	0	47	27	55	29	44	32	41	9	34	2	43	25	36	22	46	18
Jan	29	28	-22	50	40	55	35	40	15	11	-7	32	2	42	29	39	20	46	36
Jan	30	-14	-28	50	21	46	32	39	13	25	-7	37	2	45	34	50	30	43	25
Jan	31	1	-30	44	22	50	32	32	23	25	4	34	11	46	34	46	15	32	22
Feb	32	37	-8	33	17	34	20	29	15	12	-9	31	-1	52	42	40	22	32	25
Feb	33	35	16	20	6	32	20	36	24	13	-1	29	-13	50	34	54	25	32	23
Feb	34	30	13	17	5	35	26	32	25	25	8	12	-15	38	18	52	38	35	14
Feb	35	56	24	35	4	38	25	30	20	23	15	28	3	20	12	53	43	44	27
Feb	36	47	35	31	19	38	30	23	7	21	11	31	22	27	3	52	39	41	31
Feb	37	47	31	26	6	36	30	22	10	24	7	24	11	31	20	52	40	43	29
Feb	38	45	35	26	4	47	30	30	5	46	21	33	16	37	20	45	18	45	34
Feb	39	38	24	30	3	46	21	34	23	42	35	22	3	50	28	51	23	45	31
Feb	40	53	28	54	15	30	18	33	25	47	31	12	5	49	16	37	20	42	26
Feb	41	67	45	44	35	32	25	41	25	45	5	12	-5	42	15	30	22	50	29
Feb	42	63	29	52	31	29	18	46	28	10	-6	30	-5	48	29	50	17	48	38
Feb	43	35	24	49	25	28	21	53	42	16	-13	30	13	52	42	49	20	40	28
Feb	44	42	20	26	11	21	-1	54	36	20	10	28	-21	51	40	49	16	36	19
Feb	45	40	-3	23	12	17	-1	56	41	21	8	-8	-25	49	24	28	17	21	5
Feb	46	11	-8	34	12	21	2	55	9	32	0	36	-15	46	29	30	2	34	13
Feb	47	30	-10	38	10	32	18	27	-1	44	20	30	2	45	24	28	0	35	21
Feb	48	43	11	46	25	30	25	23	0	44	30	27	14	36	26	38	19	35	14
Feb	49	40	-8	45	20	38	26	22	5	39	21	50	24	31	21	36	27	31	18
Feb	50	-12	-17	35	14	41	33	36	3	38	19	44	23	21	1	40	27	49	26

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	-1	-24	25	14	40	12	36	21	35	13	36	22	11	-12	43	28	48	31
Feb	52	34	-9	22	5	22	7	36	20	41	14	34	15	42	2	51	28	44	25
Feb	53	52	22	31	10	38	17	32	9	14	-11	36	16	40	23	50	31	39	23
Feb	54	50	41	36	3	30	10	49	31	3	-20	47	28	26	12	44	28	37	24
Feb	55	48	32	11	-10	24	11	50	33	22	-9	47	30	35	15	44	29	31	10
Feb	56	33	4	18	0	25	4	49	38	25	6	45	17	38	17	37	7	31	18
Feb	57	36	24	12	-10	38	0	50	30	21	-2	44	17	44	25	17	2	40	19
Feb	58	34	15	-1	-19	30	11	51	37	5	-12	30	12	45	26	37	10	50	34
Feb	59	36	9	32	-20	17	-2	55	27	11	-15	45	27	49	31	32	12	49	32
Mar	60	62	30	29	-11	41	2	50	38	24	-5	57	41	45	25	31	5	39	24
Mar	61	59	26	48	2	39	20	45	30	45	11	53	24	45	30	54	19	49	22
Mar	62	61	38	44	4	38	16	66	29	56	30	26	7	44	24	51	29	47	27
Mar	63	58	33	29	0	32	-4	63	37	54	29	22	6	31	23	50	30	50	25
Mar	64	34	0	35	19	19	-7	58	22	43	17	26	11	27	19	50	41	48	19
Mar	65	31	-1	32	17	10	-11	41	22	43	13	31	17	22	10	47	28	22	4
Mar	66	42	21	34	9	5	-20	37	19	33	12	36	26	17	5	44	23	34	6
Mar	67	38	19	33	13	25	-10	20	4	28	14	42	26	14	0	57	25	38	20
Mar	68	36	1	28	11	41	20	40	11	40	17	30	15	11	-1	57	22	41	27
Mar	69	53	30	35	13	47	25	43	23	49	22	37	16	20	-9	27	2	40	25
Mar	70	56	38	53	27	52	37	48	8	48	34	36	13	30	7	30	5	40	30
Mar	71	53	37	51	34	46	21	48	2	40	26	34	12	27	19	29	16	33	12
Mar	72	42	20	53	28	36	23	39	11	50	30	26	10	25	7	25	0	31	18
Mar	73	33	22	46	28	51	28	52	26	48	26	24	10	25	12	33	-9	29	16
Mar	74	46	19	32	17	54	40	50	17	48	33	18	8	31	5	38	31	41	18
Mar	75	58	34	41	19	50	15	56	25	55	35	38	16	31	15	40	26	55	29
Mar	76	60	41	46	24	22	5	59	34	55	39	36	-7	27	13	40	19	55	37
Mar	77	59	46	59	40	41	6	65	48	47	20	16	-7	20	11	36	17	48	36
Mar	78	59	44	58	26	38	17	55	32	45	33	45	10	27	3	49	22	48	32
Mar	79	52	40	39	12	39	19	35	9	42	27	44	27	31	3	47	31	58	34
Mar	80	53	28	53	30	48	22	48	8	54	20	28	14	26	19	44	26	57	35
Mar	81	58	40	51	26	61	32	53	34	56	45	33	6	25	20	60	32	53	31
Mar	82	56	43	53	27	55	42	53	30	56	24	33	22	30	17	54	30	58	42
Mar	83	63	39	52	31	47	32	44	30	56	25	41	26	37	23	57	27	57	23
Mar	84	65	43	33	19	44	26	51	31	30	9	37	14	43	23	60	42	24	10
Mar	85	65	40	33	17	47	25	51	15	36	18	41	15	37	20	60	23	22	2
Mar	86	65	43	53	24	48	25	34	7	35	-1	42	24	37	22	61	21	24	2
Mar	87	60	32	57	34	32	24	47	12	38	2	52	28	45	19	59	40	26	5
Mar	88	54	27	61	36	33	19	48	23	35	26	51	29	45	17	65	40	25	2
Mar	89	65	40	63	29	41	12	33	15	40	24	35	15	21	3	55	40	24	8
Mar	90	64	24	61	41	54	32	55	20	49	25	51	21	13	4	57	36	18	-5
Apr	91	51	28	60	33	51	25	58	44	50	33	51	38	30	10	56	44	21	9
Apr	92	30	11	41	29	35	13	69	46	42	38	44	16	40	16	48	39	25	9
Apr	93	25	10	50	29	22	0	75	48	58	29	29	17	49	30	53	31	30	9
Apr	94	39	16	64	35	21	2	72	39	59	42	43	20	49	30	56	35	29	12
Apr	95	36	19	63	31	22	0	47	22	61	39	43	30	49	37	70	32	30	9
Apr	96	37	22	51	20	31	11	32	13	42	27	30	12	40	28	50	45	30	16
Apr	97	37	19	28	16	30	11	30	13	52	26	24	9	54	36	50	34	34	10
Apr	98	56	26	26	14	46	17	35	13	55	38	39	17	60	45	48	37	33	23
Apr	99	61	36	27	17	54	29	29	6	55	22	41	27	59	26	55	38	49	25
Apr	100	57	47	45	22	55	39	64	19	24	17	49	31	39	21	63	40	55	29

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	60	39	46	30	53	24	61	18	42	10	52	28	43	26	67	48	55	33
Apr	102	57	42	42	27	32	14	61	33	44	29	59	41	39	25	65	50	58	40
Apr	103	62	44	44	25	42	14	57	33	34	22	56	29	52	32	56	40	58	38
Apr	104	54	44	32	25	55	32	55	34	42	20	44	29	62	30	55	32	49	24
Apr	105	49	29	36	28	59	35	45	23	43	32	49	29	66	44	55	32	70	40
Apr	106	35	25	40	26	48	29	45	10	35	22	54	27	54	21	64	39	74	40
Apr	107	35	25	59	23	41	33	53	25	37	12	67	41	31	19	69	43	73	43
Apr	108	28	25	67	48	35	25	62	38	37	22	72	48	33	25	56	34	62	35
Apr	109	28	20	63	38	31	20	63	38	46	14	71	46	43	24	55	30	70	45
Apr	110	41	11	66	41	29	24	60	40	57	39	50	29	43	24	56	34	70	50
Apr	111	45	25	64	37	32	23	47	32	62	33	45	23	42	22	56	38	70	58
Apr	112	42	28	64	44	33	24	56	39	64	43	43	30	45	30	63	42	67	48
Apr	113	39	19	63	29	34	25	62	35	64	43	30	24	66	32	59	37	52	33
Apr	114	57	27	43	30	39	27	53	20	57	32	36	23	69	48	53	37	45	33
Apr	115	57	40	60	32	40	20	38	25	40	30	43	23	66	26	52	30	58	27
Apr	116	51	20	60	40	38	20	40	22	39	30	54	29	35	19	50	28	60	40
Apr	117	35	21	49	36	36	15	39	27	40	30	61	33	26	18	53	36	52	31
Apr	118	37	25	60	29	42	21	36	24	50	30	65	40	44	23	50	24	70	33
Apr	119	42	29	61	37	47	31	56	24	58	30	67	40	54	30	47	17	75	45
Apr	120	59	27	60	37	39	29	57	29	64	40	64	43	53	33	55	26	79	48
May	121	65	41	52	26	43	25	50	19	64	38	60	35	46	33	67	34	63	52
May	122	68	46	55	37	61	38	58	32	64	36	60	35	59	34	65	45	63	25
May	123	73	48	54	30	60	35	58	35	62	32	52	32	60	45	60	40	74	46
May	124	78	47	40	25	46	34	62	37	61	38	61	36	71	42	47	31	80	50
May	125	77	59	42	27	51	30	69	42	62	42	64	45	75	53	48	27	80	57
May	126	69	42	40	28	49	41	73	55	56	36	63	41	68	44	53	31	78	42
May	127	63	36	52	27	50	39	64	44	67	44	51	31	45	26	53	27	45	41
May	128	65	56	51	30	51	37	57	38	71	52	52	26	33	20	45	31	55	40
May	129	58	23	65	43	58	41	55	40	70	41	66	35	37	27	56	33	55	40
May	130	39	24	64	46	67	45	55	39	46	38	70	44	38	28	54	26	50	37
May	131	50	30	56	41	65	40	62	40	46	27	64	31	55	30	66	38	42	33
May	132	49	38	70	42	47	37	51	33	41	27	50	33	63	36	64	51	45	35
May	133	60	37	68	35	39	29	43	28	40	31	53	37	61	43	67	41	46	31
May	134	74	28	60	33	45	29	49	31	33	29	56	34	51	32	66	40	62	30
May	135	76	23	60	33	45	32	55	24	45	32	49	22	53	29	50	40	65	45
May	136	74	35	59	34	47	35	52	39	54	32	54	29	69	34	46	26	64	45
May	137	65	33	68	46	53	35	58	37	54	37	55	38	70	51	58	36	58	40
May	138	66	34	69	44	70	41	61	42	57	38	63	43	65	40	70	43	51	35
May	139	65	33	62	37	69	48	62	40	70	39	59	44	62	35	77	54	62	35
May	140	68	37	66	41	56	40	71	43	67	48	62	44	60	31	79	52	66	45
May	141	68	38	68	43	63	34	77	47	66	43	62	46	47	35	86	61	67	45
May	142	60	33	70	45	75	44	75	49	64	42	49	43	55	34	81	48	77	43
May	143	73	44	73	48	73	31	68	47	61	40	60	42	64	37	60	50	85	57
May	144	70	50	75	48	72	35	62	50	75	49	68	42	61	29	60	34	83	57
May	145	69	34	74	58	67	43	61	42	77	53	77	47	54	30	64	43	75	48
May	146	39	22	78	57	77	49	64	45	77	57	82	54	65	36	61	46	64	47
May	147	39	29	79	59	73	34	73	46	74	47	82	50	64	40	65	37	65	47
May	148	44	30	80	55	67	39	72	35	68	48	63	46	54	30	68	45	60	48
May	149	66	30	79	61	71	50	56	35	64	38	65	44	55	36	81	54	67	39
May	150	70	45	79	39	69	48	59	30	49	33	70	43	55	35	83	63	65	51

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		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	71	46	42	34	54	39	64	40	47	32	75	57	57	33	78	53	57	39
June	152	56	37	47	33	49	38	65	47	54	33	76	55	57	36	69	44	70	38
June	153	65	36	56	35	46	34	60	44	63	35	77	48	57	46	56	44	70	47
June	154	67	42	62	35	52	32	55	45	71	45	79	42	60	42	63	38	60	46
June	155	73	44	64	39	50	35	58	43	75	49	77	48	60	43	66	49	65	39
June	156	73	50	63	45	55	31	72	50	81	55	56	46	71	41	67	43	75	55
June	157	66	48	76	40	64	44	69	52	79	56	52	43	68	38	51	39	74	44
June	158	75	55	76	56	69	34	67	55	74	50	69	43	66	40	47	38	69	46
June	159	80	57	75	40	76	49	70	50	70	49	68	50	65	38	55	35	74	49
June	160	85	57	63	40	85	63	72	54	66	50	66	52	54	35	63	40	80	58
June	161	94	63	82	52	83	51	77	53	68	47	55	50	57	49	70	50	77	51
June	162	92	65	83	61	69	52	89	58	72	46	69	45	66	38	69	48	73	67
June	163	87	67	75	54	81	59	88	52	76	60	77	47	72	49	67	44	74	51
June	164	87	62	72	45	80	56	85	66	80	52	78	62	72	49	64	45	64	45
June	165	92	65	82	45	89	53	86	62	80	55	68	52	75	53	68	48	54	45
June	166	88	74	88	69	76	63	83	47	71	47	78	50	86	59	66	49	58	47
June	167	75	65	87	63	72	54	72	47	64	48	82	58	85	52	66	51	55	45
June	168	79	60	85	61	72	50	82	55	72	52	84	52	81	52	69	50	56	41
June	169	81	68	78	57	64	50	84	56	79	53	83	50	75	54	77	53	62	46
June	170	81	60	73	54	55	47	60	43	78	50	74	51	79	53	82	52	74	50
June	171	82	62	72	53	55	44	66	55	81	59	78	53	69	43	85	56	65	41
June	172	75	47	86	57	59	31	72	50	92	66	78	55	63	43	85	64	56	38
June	173	77	61	92	67	58	43	78	50	94	70	84	52	77	45	81	57	61	44
June	174	78	62	90	67	67	37	84	53	92	55	84	52	76	53	72	57	63	46
June	175	77	55	87	62	79	56	89	60	68	49	86	49	78	51	71	53	62	48
June	176	82	57	84	60	70	47	88	59	74	49	87	50	73	49	76	45	66	47
June	177	78	55	84	60	72	49	75	58	74	54	79	51	63	46	75	63	76	55
June	178	69	51	88	66	65	46	85	58	69	54	75	48	68	51	75	70	95	54
June	179	71	45	92	75	63	46	87	56	71	47	62	45	74	55	75	56	91	65
June	180	60	42	95	75	71	52	93	67	75	53	69	53	69	49	85	65	85	62
June	181	70	42	93	56	73	52	91	70	75	58	70	50	65	49	86	60	78	59
July	182	82	53	88	74	78	52	88	63	68	51	72	49	63	40	73	59	70	58
July	183	88	57	85	70	78	56	81	48	70	56	74	52	67	46	76	58	72	52
July	184	89	67	75	49	81	60	65	37	76	50	76	54	72	49	69	53	75	56
July	185	77	67	70	47	88	60	65	38	84	59	75	53	76	54	71	54	74	53
July	186	70	50	82	53	86	57	69	42	74	56	84	55	80	55	79	53	72	58
July	187	75	56	90	68	64	51	76	48	64	54	84	52	82	54	75	55	77	58
July	188	76	57	85	66	60	47	84	54	74	58	89	65	80	65	85	60	74	53
July	189	73	51	85	53	55	45	90	60	75	50	89	67	82	59	84	52	74	57
July	190	70	50	86	60	67	42	92	70	66	45	76	57	79	57	82	50	72	52
July	191	67	50	86	56	69	42	93	44	51	43	73	56	76	49	88	60	72	50
July	192	69	50	85	61	81	55	84	61	55	39	74	50	86	59	90	60	79	51
July	193	73	59	83	62	82	60	84	58	70	44	76	57	86	64	88	64	89	52
July	194	77	58	81	60	79	51	86	61	80	52	81	60	75	56	87	67	79	52
July	195	72	59	77	54	68	49	80	57	88	57	81	58	66	50	94	55	83	61
July	196	70	54	80	56	65	48	85	59	87	57	80	57	74	51	93	70	84	61
July	197	69	59	79	66	79	50	88	62	79	47	78	61	85	59	77	47	84	60
July	198	75	56	90	65	80	57	87	50	75	44	88	61	84	66	86	57	86	56
July	199	76	59	90	50	77	63	82	52	79	52	83	69	74	52	84	60	90	65
July	200	83	58	72	52	82	48	82	59	87	61	89	64	80	54	81	50	89	65

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	83	67	71	47	81	53	89	57	87	62	87	64	74	50	77	53	89	50
July	202	79	56	85	48	84	53	89	70	81	58	85	67	74	51	69	48	86	49
July	203	75	54	91	64	90	69	82	61	75	51	86	69	68	48	80	56	84	48
July	204	86	63	89	56	91	72	90	63	75	55	85	62	83	50	81	60	82	52
July	205	89	48	90	68	84	58	88	56	73	49	70	60	83	46	77	53	82	52
July	206	63	49	93	63	77	58	87	57	75	47	75	56	67	46	79	53	82	55
July	207	79	55	92	68	66	55	82	59	77	55	69	59	75	50	80	55	79	56
July	208	77	60	74	52	82	45	78	54	72	56	74	57	82	55	76	52	85	57
July	209	77	60	84	54	85	55	78	50	74	54	76	61	85	52	70	50	83	60
July	210	79	49	83	67	85	70	79	52	79	55	75	40	83	68	71	51	79	59
July	211	85	58	67	57	81	64	79	50	82	61	84	56	82	63	65	45	79	51
July	212	91	63	66	55	79	54	66	53	82	58	87	63	82	58	69	37	89	56
Aug	213	91	63	71	57	81	61	70	52	81	57	64	47	83	52	75	50	90	67
Aug	214	88	68	80	64	80	52	72	47	79	58	67	49	86	59	85	59	89	60
Aug	215	89	61	79	48	80	57	77	56	75	58	71	48	84	64	85	59	78	51
Aug	216	85	57	77	54	81	64	85	58	71	56	71	50	80	54	83	62	83	56
Aug	217	81	53	87	65	79	58	85	51	74	59	70	53	81	57	81	58	82	66
Aug	218	75	51	85	58	79	59	60	46	75	67	72	53	79	50	84	57	78	66
Aug	219	65	51	75	50	79	56	80	40	74	49	70	51	65	46	84	60	77	66
Aug	220	79	50	80	61	80	53	81	54	75	52	73	53	75	50	78	51	76	54
Aug	221	78	59	79	58	84	46	82	65	81	58	76	50	77	51	74	50	71	54
Aug	222	71	46	78	43	80	54	82	55	81	63	78	56	59	45	73	59	68	50
Aug	223	78	61	84	56	78	59	83	55	79	56	78	58	64	40	68	54	61	49
Aug	224	78	67	83	60	70	50	80	60	89	58	84	61	74	47	69	49	64	51
Aug	225	76	61	82	56	66	50	77	50	90	69	81	70	76	58	72	45	66	49
Aug	226	74	62	80	58	74	66	67	48	86	64	75	57	82	55	79	58	77	47
Aug	227	81	63	70	52	80	52	78	52	87	57	57	51	78	63	77	52	76	62
Aug	228	83	53	73	48	83	44	78	52	87	57	62	51	74	50	76	48	75	51
Aug	229	82	58	79	53	87	52	77	48	79	57	72	51	75	49	80	58	72	52
Aug	230	80	61	80	57	87	55	87	63	80	54	78	52	83	58	80	53	75	53
Aug	231	78	68	82	67	86	53	82	50	84	58	82	59	85	59	81	56	73	53
Aug	232	75	50	81	55	74	39	80	48	84	67	76	60	76	47	81	52	69	50
Aug	233	83	62	83	53	68	33	88	63	85	47	60	46	74	58	83	51	78	49
Aug	234	83	51	82	62	75	35	85	59	82	55	63	46	70	43	89	51	81	49
Aug	235	70	47	80	52	86	41	78	55	82	52	69	46	75	42	90	68	80	51
Aug	236	77	48	75	52	86	47	85	58	82	52	76	51	80	53	77	62	84	58
Aug	237	80	56	81	59	87	55	83	65	76	38	76	52	87	52	76	44	90	59
Aug	238	85	62	79	59	87	63	80	58	75	39	72	49	86	59	87	60	93	64
Aug	239	85	60	77	60	88	50	85	64	85	50	69	46	86	62	87	67	93	62
Aug	240	83	59	73	58	86	49	88	63	84	40	67	50	90	56	87	59	78	45
Aug	241	70	49	71	46	76	39	85	59	76	49	73	50	92	65	85	47	80	54
Aug	242	69	46	75	42	67	40	82	56	83	48	74	52	91	62	85	46	88	64
Aug	243	78	42	90	62	68	42	87	65	85	52	77	50	87	59	87	60	88	57
Sept	244	78	54	68	64	61	40	84	70	81	48	73	53	66	41	86	65	75	46
Sept	245	63	40	66	48	58	42	85	55	78	43	77	52	75	38	85	62	61	50
Sept	246	46	39	60	46	51	42	83	54	80	48	77	60	81	39	82	61	55	47
Sept	247	50	42	80	50	53	35	84	54	78	40	75	59	85	59	73	58	54	45
Sept	248	58	37	79	67	61	36	71	45	85	40	81	58	82	50	72	56	83	42
Sept	249	66	43	82	63	72	29	73	39	84	42	80	47	84	60	71	53	76	48
Sept	250	77	49	81	52	71	49	74	54	80	36	68	46	82	61	75	49	63	47

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	74	49	76	55	68	49	68	47	79	26	70	55	73	50	75	52	53	41
Sept	252	60	36	73	56	58	46	68	47	68	26	75	46	77	45	74	51	66	35
Sept	253	65	40	72	56	66	47	65	30	63	34	72	42	76	58	74	45	72	42
Sept	254	67	50	76	56	69	47	56	26	64	30	58	42	61	46	71	42	42	39
Sept	255	78	51	85	62	68	45	68	43	75	29	59	37	58	41	71	52	50	39
Sept	256	77	60	84	52	79	35	64	40	75	35	68	42	52	37	71	46	60	45
Sept	257	70	45	65	44	76	58	49	43	71	35	71	50	52	31	64	41	61	44
Sept	258	57	32	78	47	77	50	52	40	70	32	75	54	62	41	69	47	73	46
Sept	259	55	39	78	50	75	34	58	43	77	34	75	42	63	38	82	52	70	58
Sept	260	49	39	76	55	83	45	64	45	74	53	42	37	70	39	82	54	50	38
Sept	261	48	44	74	54	87	45	80	50	62	32	55	30	75	47	76	56	54	36
Sept	262	48	29	72	56	84	67	76	48	71	25	59	43	71	51	76	58	61	37
Sept	263	69	32	70	42	84	44	65	40	82	42	73	42	55	37	71	32	77	48
Sept	264	79	52	43	36	83	48	70	45	86	42	70	51	54	35	61	31	55	45
Sept	265	82	54	57	32	81	44	75	38	86	45	69	45	55	34	61	38	67	39
Sept	266	78	62	66	46	72	34	77	55	82	45	78	59	73	45	65	38	34	22
Sept	267	72	46	65	46	74	33	68	42	72	46	70	54	79	55	73	44	22	12
Sept	268	53	44	66	37	70	31	80	41	75	45	63	47	78	51	76	52	42	14
Sept	269	62	39	64	54	69	28	78	48	80	39	68	43	65	41	75	47	47	26
Sept	270	65	43	63	29	52	23	74	45	82	45	68	45	64	32	74	39	62	32
Sept	271	73	49	40	32	60	24	69	42	78	37	47	43	37	28	50	34	71	38
Sept	272	86	51	57	32	63	26	50	33	63	29	49	40	53	33	50	39	76	52
Sept	273	73	37	70	49	51	29	61	34	71	34	48	42	67	35	51	36	55	48
Oct	274	62	42	57	52	67	34	59	37	72	43	52	42	75	47	54	36	56	37
Oct	275	62	41	56	38	76	47	58	48	71	34	51	43	64	50	54	36	63	42
Oct	276	71	46	49	32	71	40	61	41	81	49	51	38	58	41	54	38	46	42
Oct	277	71	54	35	31	65	25	75	46	77	50	58	37	55	39	56	38	42	34
Oct	278	70	46	51	30	77	46	72	45	75	32	60	40	53	28	57	30	48	44
Oct	279	71	55	61	32	79	55	63	31	61	32	59	40	37	26	45	19	64	42
Oct	280	69	42	64	39	78	61	53	27	52	29	55	40	56	30	45	24	68	47
Oct	281	62	34	66	44	76	60	68	49	71	21	66	42	71	45	35	19	58	41
Oct	282	67	43	64	9	67	37	71	56	69	36	64	48	67	35	50	18	62	28
Oct	283	68	39	39	10	69	46	67	40	66	31	55	41	51	32	55	38	66	46
Oct	284	68	49	44	30	78	31	55	28	62	18	43	35	56	42	54	34	46	36
Oct	285	69	56	52	34	65	38	67	36	64	16	38	29	55	37	37	31	50	32
Oct	286	76	45	52	30	57	36	73	52	62	19	49	28	55	33	41	33	45	34
Oct	287	76	50	50	28	55	36	69	43	45	15	60	36	60	37	45	24	68	34
Oct	288	74	49	35	25	54	32	69	42	46	24	60	40	60	46	50	36	69	49
Oct	289	74	53	45	18	54	35	78	40	43	4	58	38	60	37	49	19	65	42
Oct	290	67	40	53	34	51	38	73	40	48	9	55	35	69	46	42	19	56	55
Oct	291	56	42	52	29	66	31	64	44	60	23	43	32	69	49	37	12	55	34
Oct	292	58	40	34	21	67	49	55	41	61	24	40	28	64	41	33	9	45	34
Oct	293	63	40	37	20	59	36	74	41	61	26	39	20	59	44	45	21	52	32
Oct	294	68	50	43	30	43	26	72	43	59	26	56	32	55	41	55	44	36	34
Oct	295	63	29	42	36	52	31	54	28	45	22	66	47	59	41	54	42	34	32
Oct	296	45	32	38	15	45	29	68	48	60	26	60	36	56	39	45	23	32	23
Oct	297	44	29	20	11	45	22	67	51	60	40	36	23	60	37	45	21	52	25
Oct	298	40	29	18	8	48	13	58	35	67	30	35	16	57	47	32	22	50	45
Oct	299	40	28	32	4	54	34	44	31	68	35	25	19	62	43	33	14	62	38
Oct	300	49	22	30	5	49	26	50	27	67	30	28	15	63	46	31	-1	38	37

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Day of		1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	44	35	38	14	39	16	43	31	64	30	28	16	60	41	12	-12	38	31
Oct	302	40	32	46	25	51	22	53	41	49	15	21	13	57	45	25	2	31	25
Oct	303	35	27	45	24	49	40	69	45	30	10	31	11	59	44	50	22	30	26
Oct	304	52	22	31	14	44	23	57	32	45	20	42	15	55	33	50	28	29	27
Nov	305	58	38	41	25	29	15	50	41	40	31	47	33	55	33	50	17	36	21
Nov	306	57	36	40	29	22	10	54	32	36	32	53	32	56	44	52	38	40	30
Nov	307	64	29	31	8	40	17	60	48	35	29	49	32	65	37	48	25	39	22
Nov	308	66	45	51	1	50	35	61	48	39	29	41	33	59	38	48	17	47	22
Nov	309	60	26	49	29	42	24	57	47	32	24	49	31	61	38	37	17	52	44
Nov	310	54	19	37	21	38	27	64	41	26	22	50	38	60	27	40	20	47	44
Nov	311	34	15	40	31	31	25	55	28	37	20	50	31	35	22	33	15	44	30
Nov	312	28	16	39	5	42	27	31	13	36	20	56	31	33	14	44	27	30	18
Nov	313	46	17	22	4	33	25	36	16	50	28	50	39	38	30	46	34	33	16
Nov	314	55	22	24	16	30	2	43	32	50	37	53	31	49	34	47	28	40	28
Nov	315	51	25	22	-8	28	8	40	27	43	16	53	41	47	26	45	30	52	37
Nov	316	52	26	24	-9	19	0	50	36	18	-1	42	30	27	18	41	29	39	34
Nov	317	61	35	35	15	13	-11	40	26	17	12	37	30	24	6	35	28	34	28
Nov	318	54	35	44	30	28	1	38	24	36	13	42	33	28	-1	32	25	35	31
Nov	319	54	30	48	43	39	1	40	28	49	33	42	38	38	22	33	24	33	29
Nov	320	50	31	50	42	42	2	32	16	60	42	46	32	38	30	49	22	29	22
Nov	321	35	27	50	40	45	32	25	13	56	36	55	42	52	31	48	36	22	7
Nov	322	46	22	50	36	48	37	20	3	43	22	52	40	46	34	38	31	16	4
Nov	323	43	32	53	40	55	37	9	-11	32	18	56	36	57	32	50	32	11	0
Nov	324	36	20	52	29	54	42	8	-3	35	26	45	33	57	34	56	33	10	4
Nov	325	25	7	50	29	53	35	4	-11	39	19	34	22	48	33	54	21	40	5
Nov	326	15	2	51	43	39	19	49	-4	55	30	37	27	38	30	36	4	44	4
Nov	327	23	-5	53	42	43	19	48	30	45	28	44	22	43	29	49	24	40	35
Nov	328	34	2	52	32	42	32	47	25	48	28	54	42	30	20	49	34	49	26
Nov	329	32	12	32	0	38	27	45	26	44	37	54	34	29	18	48	27	26	17
Nov	330	50	16	0	-11	47	24	40	28	48	37	34	26	38	25	44	21	39	12
Nov	331	45	23	2	-12	44	24	50	24	49	38	30	21	36	17	25	14	38	29
Nov	332	29	15	15	-2	40	27	47	29	51	40	43	26	35	18	40	16	35	32
Nov	333	28	18	14	7	33	23	44	20	46	23	40	25	34	18	44	25	46	28
Nov	334	48	22	7	-2	40	22	45	34	41	17	42	28	48	34	46	31	38	35
Dec	335	42	25	0	-11	57	30	42	30	32	15	41	8	50	29	51	36	50	31
Dec	336	45	28	8	-14	55	33	32	21	35	26	49	18	45	33	53	41	54	38
Dec	337	43	30	33	7	51	38	26	16	40	19	49	24	45	31	46	21	19	18
Dec	338	56	37	29	23	41	29	40	23	36	5	39	21	38	27	28	18	25	11
Dec	339	52	37	30	17	45	28	51	34	13	-1	44	33	33	23	33	26	32	18
Dec	340	59	33	28	5	39	26	47	31	11	0	44	25	36	25	41	32	41	28
Dec	341	55	44	24	-6	33	22	37	19	6	-3	45	27	33	17	39	31	41	21
Dec	342	50	35	-2	-21	44	26	52	23	12	-9	29	22	19	8	48	34	35	24
Dec	343	39	29	-9	-20	41	29	45	38	28	4	26	19	16	4	51	36	35	19
Dec	344	35	20	32	-29	33	18	50	34	40	23	34	18	19	9	48	36	36	26
Dec	345	36	15	35	-19	40	25	50	25	35	-10	42	18	35	14	45	34	45	29
Dec	346	36	17	-7	-26	38	23	55	48	15	-11	43	13	48	33	45	36	-10	-14
Dec	347	42	21	4	-26	37	22	53	41	12	0	26	11	55	47	43	18	-7	-20
Dec	348	49	35	21	-4	34	19	42	28	7	-14	43	22	52	28	42	8	-6	-22
Dec	349	49	31	33	15	32	17	32	19	21	2	49	31	55	40	30	4	11	-13
Dec	350	40	23	42	30	33	18	22	4	18	-5	53	36	50	0	37	23	28	9

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		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1918	1918	1919	1919	1920	1920	1921	1921	1922	1922	1923	1923	1924	1924	1925	1925	1926	1926
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	29	23	53	40	37	22	23	3	18	-12	55	35	0	-24	47	35	30	23
Dec	352	35	17	47	31	27	17	22	3	30	7	53	34	-16	-25	45	32	38	21
Dec	353	37	22	52	30	25	15	11	-10	41	26	46	25	-11	-29	44	16	28	26
Dec	354	40	19	44	27	35	12	7	-14	39	28	36	22	2	-19	18	8	28	22
Dec	355	29	12	51	37	26	6	20	0	54	36	30	21	5	-9	15	8	36	18
Dec	356	18	5	49	34	11	-8	39	9	47	36	34	13	3	-11	30	1	28	19
Dec	357	24	0	45	32	7	-13	20	-6	41	33	32	23	8	-12	41	28	11	4
Dec	358	21	1	51	35	9	-9	28	-5	51	40	35	25	7	-14	40	18	28	8
Dec	359	25	14	44	30	29	-2	30	14	43	34	42	21	1	-16	41	12	20	19
Dec	360	22	14	47	26	28	19	32	15	46	28	38	19	35	-2	38	2	26	9
Dec	361	26	10	40	29	25	-1	42	20	46	30	24	14	30	5	14	-16	21	5
Dec	362	43	25	45	29	28	-3	41	32	48	37	35	17	16	-18	20	-2	28	19
Dec	363	42	31	50	38	47	27	41	25	44	30	34	-5	36	-6	20	-2	42	28
Dec	364	32	-12	47	33	43	35	41	20	30	17	-5	-22	35	22	38	18	38	32
Dec	365	-7	-16	33	0	46	30	22	9	28	-1	-13	-25	34	-1	50	29	51	34
29 Feb	366					43	21							8	0				

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	39	38	10	-25	23	5	30	17	40	33	31	20	35	26	43	28	46	17
Jan	2	49	31	11	-11	32	15	28	11	40	27	31	21	36	16	42	8	47	35
Jan	3	39	31	34	5	38	4	43	17	36	24	28	13	34	25	45	29	44	7
Jan	4	42	30	41	29	25	1	44	38	32	24	25	13	33	18	42	27	45	34
Jan	5	41	31	46	34	17	-3	45	4	41	24	24	16	39	26	37	25	45	34
Jan	6	34	21	45	33	23	13	5	-13	41	25	25	13	39	28	31	16	48	33
Jan	7	33	30	34	28	34	20	16	-12	37	24	23	9	46	26	24	8	46	30
Jan	8	30	25	46	28	42	26	15	-6	29	21	37	21	42	35	37	21	43	27
Jan	9	24	13	49	40	41	12	16	-8	27	15	40	34	49	32	48	32	40	23
Jan	10	37	13	55	46	32	16	25	8	29	20	38	18	43	13	46	27	32	19
Jan	11	19	18	50	39	36	6	21	-3	33	16	42	19	23	5	40	25	41	21
Jan	12	18	3	50	40	36	27	5	-8	19	11	40	3	29	22	26	17	39	12
Jan	13	4	-4	44	33	37	16	8	-5	17	-5	3	-15	29	23	33	15	13	0
Jan	14	22	-9	40	16	39	7	-2	-15	47	5	19	-10	47	28	42	26	36	0
Jan	15	45	21	22	10	29	12	-5	-24	42	24	21	3	38	24	33	17	42	20
Jan	16	33	32	27	9	34	9	-12	-30	38	15	26	11	27	-10	49	23	40	20
Jan	17	32	-3	30	11	24	8	2	-32	38	12	22	5	36	-5	46	34	30	13
Jan	18	2	-6	29	20	25	0	12	0	20	7	41	17	36	12	45	24	29	-12
Jan	19	-1	-7	20	5	10	-11	5	-12	22	10	43	33	31	12	43	25	-12	-21
Jan	20	-7	-17	16	-4	25	-1	-7	-22	40	14	38	20	39	27	44	29	-16	-32
Jan	21	-1	-22	32	12	31	5	3	-16	41	31	22	16	43	31	37	26	28	-19
Jan	22	24	-7	35	22	34	-14	11	-2	45	24	22	12	37	22	38	27	39	-5
Jan	23	29	16	29	10	-2	-17	15	2	54	32	19	12	33	9	48	29	36	-14
Jan	24	30	15	19	5	-1	-18	17	5	52	34	37	15	32	21	47	8	47	34
Jan	25	15	12	24	13	12	-8	23	6	37	19	46	31	31	17	31	5	53	41
Jan	26	37	10	24	16	17	-9	23	3	48	31	42	23	32	18	44	25	54	36
Jan	27	37	35	30	12	10	-12	14	3	45	31	33	18	38	9	48	41	55	28
Jan	28	39	28	46	21	6	-18	25	7	47	40	33	8	46	31	46	13	49	38
Jan	29	38	22	41	32	25	-14	35	13	58	43	9	-7	42	18	34	19	54	32
Jan	30	26	19	35	11	32	1	33	15	57	36	-2	-16	31	12	52	27	55	32
Jan	31	33	13	31	13	13	-3	32	22	50	28	3	-18	30	9	48	31	52	36
Feb	32	43	20	37	9	38	4	41	23	47	28	37	-10	24	4	56	32	66	32
Feb	33	46	36	42	24	44	25	42	31	50	28	34	-4	20	13	58	36	60	41
Feb	34	48	27	49	21	44	26	40	25	47	31	20	10	16	0	56	30	54	31
Feb	35	46	33	46	31	35	21	38	20	49	28	33	11	29	3	47	23	51	39
Feb	36	33	28	46	34	32	-5	50	36	43	25	34	24	43	26	38	20	47	25
Feb	37	32	10	44	31	2	-14	45	31	41	27	37	25	38	-24	51	32	37	23
Feb	38	30	16	36	26	5	-15	40	21	31	22	36	23	-9	-30	50	28	32	23
Feb	39	16	-8	39	23	6	-8	50	32	30	17	39	11	-12	-34	57	32	27	23
Feb	40	21	-7	36	21	17	-3	37	14	37	14	43	31	-4	-32	51	31	33	18
Feb	41	29	10	50	30	23	0	47	20	40	32	44	34	9	-8	38	19	40	16
Feb	42	29	19	57	35	23	10	45	27	39	29	40	17	23	-5	47	21	47	20
Feb	43	21	20	53	18	29	6	33	13	31	24	20	4	25	-4	52	32	44	25
Feb	44	22	6	25	15	20	18	27	6	36	22	15	0	13	-12	57	43	47	26
Feb	45	28	13	25	8	24	11	26	9	49	28	13	-1	19	-6	56	40	36	23
Feb	46	45	25	28	10	31	12	43	6	49	31	36	4	33	6	49	29	28	20
Feb	47	47	31	28	12	33	17	47	37	46	25	32	7	32	19	51	27	33	21
Feb	48	43	-8	26	3	31	-5	49	34	37	20	30	1	32	15	51	23	50	31
Feb	49	44	9	36	15	14	-9	58	42	44	21	29	18	31	20	27	13	48	27
Feb	50	45	29	34	10	22	-14	55	37	53	29	41	10	23	12	41	15	35	22

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	48	28	30	5	27	18	58	36	49	30	43	25	34	18	38	21	59	22
Feb	52	49	32	41	13	34	8	58	26	36	26	43	24	39	28	22	1	54	27
Feb	53	39	26	34	-9	36	14	45	26	33	26	46	31	39	26	18	3	44	25
Feb	54	38	27	6	-12	36	30	52	28	46	27	49	38	45	30	17	0	42	23
Feb	55	36	24	9	-5	34	21	49	23	46	28	57	42	43	23	12	-2	23	-5
Feb	56	35	21	30	1	32	15	30	13	38	14	55	40	40	19	-1	-12	15	-8
Feb	57	32	19	29	5	29	17	28	14	40	28	56	40	53	27	34	-13	25	6
Feb	58	25	9	34	22	32	14	25	5	29	18	59	49	48	24	44	20	39	19
Feb	59	20	8	31	22	28	9	17	1	30	20	58	40	44	17	44	31	49	20
Mar	60	27	1	29	6	29	11	7	-1	37	22	58	34	51	34	42	30	49	33
Mar	61	46	21	26	11	35	25	16	-8	38	27	52	27	52	28	52	26	49	22
Mar	62	49	29	37	20	31	22	45	8	40	18	36	19	57	34	48	27	55	35
Mar	63	50	22	41	23	42	22	39	24	41	21	30	13	51	13	37	28	48	21
Mar	64	48	26	39	15	53	36	45	24	23	12	13	-9	25	10	37	19	22	4
Mar	65	45	27	42	15	51	17	43	15	23	5	10	-3	43	17	32	15	23	-5
Mar	66	38	22	44	29	52	17	35	4	19	10	5	-12	49	35	28	7	41	8
Mar	67	51	26	47	20	50	22	42	20	30	15	-4	-13	49	16	38	21	51	30
Mar	68	36	19	45	19	50	24	39	25	41	21	-5	-19	24	0	32	5	49	21
Mar	69	35	9	49	28	57	36	40	22	45	29	5	-13	39	13	43	15	25	16
Mar	70	30	21	50	34	55	35	45	28	45	19	4	-16	52	22	58	35	30	11
Mar	71	37	19	48	31	50	19	42	23	47	22	4	-12	59	43	57	40	43	27
Mar	72	54	26	50	26	25	15	31	15	43	35	32	-4	56	31	55	16	53	35
Mar	73	58	39	34	19	25	16	51	23	43	27	35	19	36	18	54	19	65	43
Mar	74	50	26	37	12	34	16	55	36	49	23	46	26	46	22	54	30	62	17
Mar	75	29	12	34	15	49	19	54	17	54	31	46	29	49	26	48	9	33	12
Mar	76	34	11	31	11	48	28	22	12	52	32	39	24	49	34	30	-1	44	19
Mar	77	32	7	36	23	41	28	38	8	53	25	39	29	36	17	54	21	41	27
Mar	78	14	3	32	19	40	27	49	29	51	32	44	28	27	16	58	45	48	18
Mar	79	30	1	47	14	42	30	48	4	45	31	46	28	35	21	58	40	47	29
Mar	80	44	20	59	37	41	29	44	23	49	33	36	16	41	26	50	26	51	25
Mar	81	40	24	64	44	33	20	40	27	50	31	35	18	38	22	39	19	52	32
Mar	82	37	15	65	40	36	19	35	23	32	25	28	20	40	14	20	13	52	21
Mar	83	47	31	61	44	25	14	28	17	37	23	38	17	40	24	40	7	54	33
Mar	84	32	15	59	35	35	12	26	15	43	23	47	27	43	24	47	20	57	34
Mar	85	41	13	57	25	43	21	23	10	39	-16	44	27	44	30	39	12	56	21
Mar	86	47	17	32	21	48	36	23	9	6	-16	35	26	49	30	55	27	29	17
Mar	87	55	25	34	15	63	31	27	6	22	-2	38	23	63	36	50	23	37	16
Mar	88	46	28	26	10	61	28	41	12	25	11	52	25	61	39	27	9	38	21
Mar	89	48	30	20	10	35	16	39	14	35	12	52	15	47	29	51	10	25	2
Mar	90	46	21	39	11	29	19	27	9	39	25	34	13	52	29	51	32	21	11
Apr	91	44	18	52	32	37	18	46	13	41	33	47	29	44	27	49	29	14	3
Apr	92	50	27	63	36	55	29	52	34	40	25	60	44	38	32	46	27	20	4
Apr	93	54	34	64	39	64	43	62	36	26	14	58	35	57	29	28	15	30	11
Apr	94	42	28	56	32	62	41	60	37	44	16	55	40	56	20	31	21	25	16
Apr	95	48	30	50	27	59	37	56	37	59	32	47	32	20	15	30	17	44	14
Apr	96	49	26	41	22	46	20	58	44	62	39	64	33	50	16	52	19	44	18
Apr	97	58	37	35	19	34	15	69	38	67	37	44	31	52	30	61	33	44	15
Apr	98	59	40	23	10	40	18	69	52	67	31	58	30	44	24	68	47	51	30
Apr	99	52	34	17	-1	40	22	70	48	58	29	57	35	29	21	66	37	44	30
Apr	100	43	26	50	6	40	19	58	37	58	29	44	27	25	13	56	49	31	23

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	32	24	50	7	35	20	63	36	69	45	48	20	31	17	53	28	30	20
Apr	102	27	22	36	24	39	22	63	40	68	49	58	29	31	19	51	20	57	17
Apr	103	27	20	42	21	50	23	60	34	71	43	66	38	29	14	64	34	56	42
Apr	104	27	19	42	9	46	26	58	40	69	41	66	36	44	21	62	24	55	15
Apr	105	36	20	43	8	46	31	60	37	54	32	72	46	64	35	37	24	59	20
Apr	106	40	21	42	18	50	33	60	32	63	32	68	34	70	43	50	25	58	41
Apr	107	47	21	47	27	57	36	47	29	72	40	54	37	69	43	58	30	47	34
Apr	108	50	30	59	32	54	31	47	30	71	34	56	43	68	48	56	28	59	27
Apr	109	36	15	50	24	50	29	42	29	46	33	50	35	65	35	44	27	60	39
Apr	110	30	12	38	23	50	35	57	30	35	17	59	35	37	25	55	28	64	33
Apr	111	32	12	44	26	54	32	55	23	40	16	65	43	30	25	66	39	72	46
Apr	112	47	13	44	23	54	34	50	30	37	18	61	46	50	29	73	35	71	34
Apr	113	46	33	46	24	53	37	57	34	36	10	72	51	54	37	64	34	45	29
Apr	114	56	32	53	34	40	26	62	37	44	17	66	43	54	35	58	29	41	29
Apr	115	66	47	55	28	40	25	50	35	45	24	51	39	54	31	61	40	42	30
Apr	116	68	50	58	35	51	29	55	36	49	22	40	27	55	35	56	32	53	34
Apr	117	74	49	59	38	52	33	65	39	56	29	35	11	57	37	66	34	53	29
Apr	118	71	47	68	32	63	40	57	40	68	34	41	23	64	35	71	43	35	24
Apr	119	66	32	71	51	67	39	64	37	65	39	39	27	61	33	74	51	49	20
Apr	120	67	42	69	34	62	34	60	40	62	40	34	27	35	30	72	39	55	35
May	121	71	46	61	34	37	23	61	42	59	44	37	28	45	28	70	55	56	29
May	122	68	32	71	47	49	30	73	37	62	32	59	26	56	31	68	38	35	25
May	123	44	28	62	30	49	33	73	51	66	45	60	45	50	36	64	41	41	23
May	124	38	31	49	30	42	26	57	41	60	31	57	41	44	36	67	37	51	29
May	125	63	33	56	32	40	27	52	32	43	25	62	46	53	34	80	49	51	31
May	126	41	32	64	31	41	18	37	29	57	25	64	45	53	40	80	55	53	32
May	127	47	35	78	42	41	26	41	26	73	41	48	38	44	32	85	52	54	34
May	128	55	28	78	60	46	19	42	29	51	29	50	36	42	29	84	59	43	27
May	129	30	22	76	53	62	32	39	24	42	33	60	37	37	31	84	47	55	28
May	130	43	23	78	56	54	37	42	24	43	30	60	42	35	28	65	41	68	40
May	131	56	35	65	40	57	35	42	27	51	31	65	39	36	27	75	43	68	38
May	132	56	39	60	32	67	39	35	29	62	33	67	48	34	30	73	33	53	33
May	133	55	39	66	42	73	47	47	32	68	40	74	45	50	32	54	31	38	29
May	134	57	39	63	43	74	49	47	26	81	47	78	51	61	37	68	40	39	29
May	135	66	31	63	38	70	24	47	26	82	60	79	51	62	38	78	49	51	34
May	136	76	52	50	42	72	30	47	28	75	50	65	30	67	42	81	52	69	39
May	137	76	49	57	42	70	46	43	30	76	38	54	29	68	45	83	59	67	45
May	138	70	34	63	40	58	29	53	30	49	35	65	37	68	39	81	56	54	38
May	139	54	33	63	40	58	39	60	32	42	21	79	51	68	44	82	49	40	31
May	140	61	42	64	45	67	29	73	41	39	26	77	58	64	40	74	55	44	30
May	141	62	37	74	39	69	49	73	37	47	24	71	49	72	45	61	43	54	32
May	142	63	37	66	38	73	43	45	33	65	34	69	45	77	50	67	34	53	37
May	143	60	37	76	47	74	43	52	31	81	51	81	58	68	39	68	38	58	31
May	144	56	39	79	54	81	56	67	35	83	46	74	40	57	42	70	38	64	40
May	145	60	40	79	56	81	49	76	50	86	51	67	38	60	43	77	44	65	40
May	146	77	48	72	41	56	39	75	43	85	59	67	35	67	36	84	57	59	37
May	147	72	49	74	53	57	40	66	40	62	37	42	32	67	44	87	60	58	35
May	148	68	43	73	54	59	38	66	42	56	33	45	31	52	39	86	61	51	38
May	149	65	39	77	50	47	34	54	36	53	37	49	35	61	42	89	60	51	37
May	150	54	32	75	42	70	43	60	37	68	39	67	36	78	44	84	63	52	37

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	56	34	74	49	75	50	70	42	76	52	71	52	87	55	84	46	59	45
June	152	54	34	55	42	67	54	63	33	75	50	60	44	86	64	81	51	54	43
June	153	54	37	62	37	59	45	61	37	77	50	68	44	79	46	79	50	57	42
June	154	60	39	63	41	60	36	66	37	79	52	64	39	78	59	69	45	50	34
June	155	56	40	55	44	54	36	65	34	64	44	75	45	79	60	71	47	55	34
June	156	63	39	57	44	57	43	53	36	55	41	76	53	81	52	73	53	58	43
June	157	64	46	56	44	64	42	60	35	62	44	78	55	81	49	64	44	45	30
June	158	73	49	74	40	70	47	69	42	74	44	76	53	66	48	68	46	60	33
June	159	84	53	75	47	82	54	75	54	82	54	66	44	72	39	68	42	78	44
June	160	81	50	62	41	83	61	57	45	74	59	66	45	80	54	62	39	79	58
June	161	76	42	54	42	82	54	63	41	68	54	68	43	82	56	76	44	68	46
June	162	70	41	62	37	80	44	80	51	67	52	57	45	72	51	75	51	71	43
June	163	48	39	62	48	57	38	79	45	75	49	63	45	70	50	74	52	81	45
June	164	53	40	58	40	66	50	63	43	79	47	62	43	75	50	77	53	81	59
June	165	62	39	63	58	75	47	60	40	79	47	64	49	80	57	72	46	80	52
June	166	61	47	67	45	81	47	64	46	86	56	71	51	83	56	66	46	82	53
June	167	65	40	69	49	82	58	71	38	91	65	82	50	88	60	63	50	73	51
June	168	72	47	73	44	83	52	82	54	89	67	79	53	87	67	70	46	63	46
June	169	74	47	63	46	69	41	82	47	84	49	75	49	89	70	84	57	57	42
June	170	80	53	72	42	65	46	69	40	83	53	70	43	79	65	85	55	70	42
June	171	68	44	59	40	67	47	78	52	74	48	68	45	75	55	63	48	70	48
June	172	54	45	58	41	69	46	80	59	77	52	67	49	80	50	75	45	62	43
June	173	65	46	56	32	61	42	73	57	80	56	79	52	84	55	81	55	73	42
June	174	86	57	64	40	57	40	68	48	93	65	84	53	82	53	83	49	82	62
June	175	85	60	60	44	62	34	68	48	95	45	86	59	76	49	83	59	85	50
June	176	79	45	58	48	72	41	62	40	89	62	85	61	89	50	70	50	62	42
June	177	92	67	64	41	73	50	74	43	91	67	86	56	89	67	88	56	67	43
June	178	91	70	63	43	73	54	78	53	93	67	88	53	83	70	89	49	69	47
June	179	70	53	66	48	81	43	78	60	95	70	70	52	84	64	81	56	82	52
June	180	76	53	67	44	84	63	69	42	92	63	78	56	83	50	80	52	87	61
June	181	77	51	74	48	83	56	65	45	84	57	88	57	78	49	76	49	87	58
July	182	69	44	78	49	76	54	80	46	71	50	88	59	78	53	82	56	85	54
July	183	73	44	76	58	84	54	85	63	85	53	73	43	84	55	83	53	90	64
July	184	86	56	73	49	85	59	81	49	82	57	77	59	91	65	84	52	90	55
July	185	83	67	75	49	74	52	78	53	71	43	71	53	91	65	85	54	77	60
July	186	81	55	82	52	69	50	82	57	82	44	66	46	85	58	71	51	79	51
July	187	81	46	85	66	73	47	89	58	79	41	69	47	84	57	73	36	87	62
July	188	82	52	85	54	63	42	88	66	60	44	74	47	76	55	89	56	88	68
July	189	82	58	69	49	55	40	89	61	67	50	76	44	83	60	88	58	86	61
July	190	87	55	66	49	70	40	92	69	75	50	88	57	88	68	81	52	83	59
July	191	88	57	80	50	81	57	87	66	90	56	87	52	91	67	87	60	84	64
July	192	76	53	84	60	84	63	78	65	74	57	80	51	94	61	84	65	84	55
July	193	75	54	79	56	82	62	72	52	77	50	87	66	86	65	87	53	78	54
July	194	70	51	73	53	80	56	67	47	87	62	88	60	86	60	88	56	83	55
July	195	70	49	79	61	69	54	74	49	95	62	77	62	85	57	84	55	80	52
July	196	67	49	83	57	84	60	86	58	93	73	79	61	76	50	87	63	85	51
July	197	65	47	86	55	86	66	91	60	91	58	86	59	76	53	91	56	91	67
July	198	78	50	84	68	82	63	90	59	87	56	88	62	80	61	93	64	92	62
July	199	78	50	83	56	83	59	88	58	95	71	88	63	87	62	93	67	81	57
July	200	82	58	83	58	84	64	79	58	89	53	89	68	89	59	91	63	86	59

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	82	57	81	51	83	60	77	54	82	49	91	65	90	53	93	67	86	59
July	202	77	50	81	49	85	65	71	49	89	55	88	58	81	53	93	71	82	56
July	203	71	52	79	57	84	64	80	53	92	74	79	57	82	63	89	61	80	54
July	204	70	52	77	50	86	64	79	55	92	62	84	56	75	41	85	61	81	53
July	205	72	49	75	61	87	55	85	56	94	74	84	60	86	57	86	64	81	53
July	206	80	51	76	55	92	63	82	64	96	72	81	59	90	66	79	50	87	59
July	207	79	62	82	60	96	68	87	59	97	69	81	58	92	66	72	55	94	66
July	208	83	61	82	56	96	62	87	50	96	70	86	63	94	70	74	55	96	61
July	209	65	51	79	52	80	45	75	50	95	63	87	54	94	62	85	53	96	70
July	210	69	54	71	53	82	54	77	53	82	54	82	54	94	63	88	52	95	58
July	211	69	56	79	49	86	60	80	52	69	53	67	52	93	63	92	65	90	64
July	212	70	54	82	62	87	56	89	61	70	51	72	52	77	48	92	70	90	62
Aug	213	57	49	84	60	83	67	90	71	61	52	81	55	71	53	83	49	81	58
Aug	214	57	44	83	55	80	58	88	63	74	48	82	53	69	47	82	48	77	49
Aug	215	64	44	79	52	79	47	85	60	85	52	78	46	75	51	97	66	80	45
Aug	216	72	47	75	45	86	64	81	60	89	59	83	52	84	54	97	75	90	60
Aug	217	76	55	72	50	84	60	82	60	89	54	83	54	91	64	89	69	89	62
Aug	218	79	52	74	53	78	50	84	62	78	53	80	56	92	61	88	56	89	63
Aug	219	77	53	79	49	74	54	82	60	79	59	76	46	85	54	84	60	90	64
Aug	220	67	41	80	54	75	51	83	57	78	51	73	47	85	63	87	64	92	61
Aug	221	73	51	86	59	80	55	83	61	67	48	84	56	84	51	79	56	90	56
Aug	222	77	51	89	59	76	51	81	59	65	35	86	65	84	52	76	53	95	67
Aug	223	76	55	91	63	78	56	81	61	83	49	87	62	82	65	81	54	95	57
Aug	224	77	51	92	64	82	50	79	63	91	64	77	58	83	56	83	52	73	48
Aug	225	77	52	84	60	81	53	76	51	90	68	77	56	81	56	84	51	87	50
Aug	226	78	53	89	60	81	49	78	55	84	55	82	57	83	52	84	58	94	69
Aug	227	70	53	91	59	91	61	79	59	70	57	88	65	83	59	84	60	96	63
Aug	228	66	47	77	57	90	54	60	54	72	57	83	58	77	57	79	55	67	48
Aug	229	60	46	71	52	81	54	63	52	79	55	81	58	76	52	90	55	69	45
Aug	230	60	43	75	48	85	62	69	53	83	57	78	54	80	52	90	59	80	58
Aug	231	68	44	81	55	85	64	75	53	85	61	80	58	84	57	76	40	71	50
Aug	232	74	48	86	55	85	50	82	59	81	55	84	60	77	52	82	52	73	40
Aug	233	74	40	89	50	84	63	81	56	81	54	85	64	72	52	80	46	84	59
Aug	234	72	48	81	47	88	58	79	55	81	60	86	60	68	46	70	44	87	57
Aug	235	64	47	81	47	89	59	78	57	82	52	85	62	63	47	70	36	90	64
Aug	236	73	51	71	40	90	69	83	56	81	58	85	66	67	49	60	35	88	61
Aug	237	77	50	69	38	83	55	88	50	80	53	85	55	67	49	68	39	82	48
Aug	238	78	61	76	34	79	57	86	69	88	59	69	48	61	46	74	41	81	46
Aug	239	78	47	75	54	81	61	71	50	79	46	72	46	59	48	73	47	70	39
Aug	240	78	49	80	47	77	54	69	49	62	44	70	57	56	49	83	53	69	46
Aug	241	80	58	72	51	85	57	76	50	76	44	82	59	72	47	85	60	68	44
Aug	242	78	52	71	46	84	60	80	55	87	55	82	58	85	54	80	56	64	38
Aug	243	74	51	73	40	86	54	80	43	80	50	79	41	81	52	66	47	64	42
Sept	244	76	53	69	45	92	67	62	34	66	52	62	37	67	42	70	45	51	36
Sept	245	74	42	69	50	88	60	71	40	70	51	71	38	69	45	59	41	69	43
Sept	246	84	51	68	46	75	38	74	50	79	56	73	50	78	51	68	41	68	42
Sept	247	85	51	65	32	55	33	76	55	89	54	70	43	88	52	78	51	63	37
Sept	248	82	49	73	44	54	37	77	46	88	61	75	48	88	54	79	42	71	44
Sept	249	83	53	74	38	44	28	72	51	88	56	76	45	88	58	72	40	71	44
Sept	250	82	59	85	55	38	29	72	49	88	56	80	46	89	64	80	48	63	44

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		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	81	53	86	61	40	27	69	46	87	58	82	62	74	50	81	55	63	39
Sept	252	79	51	76	44	53	30	76	49	89	63	83	56	60	53	57	40	73	37
Sept	253	85	60	67	44	68	38	82	59	87	57	84	45	72	53	67	37	80	55
Sept	254	85	64	64	44	67	37	83	56	80	63	57	40	69	47	78	51	81	59
Sept	255	76	51	63	41	59	46	81	45	79	55	63	39	69	50	85	60	81	49
Sept	256	78	55	78	45	56	44	71	43	80	42	63	45	69	45	86	51	80	59
Sept	257	76	49	78	41	75	38	69	44	73	39	69	36	68	50	62	27	86	57
Sept	258	68	46	64	45	60	41	67	48	78	49	77	50	69	50	61	26	85	60
Sept	259	71	52	74	49	62	41	63	40	79	49	76	39	68	41	73	45	81	46
Sept	260	71	49	72	37	64	38	75	43	79	54	67	42	82	44	68	46	81	43
Sept	261	57	38	70	41	63	39	78	50	79	54	76	45	82	66	77	47	74	47
Sept	262	49	39	81	55	65	38	78	38	77	56	77	51	81	43	75	41	79	45
Sept	263	51	27	81	55	84	48	65	32	70	42	58	39	83	43	49	24	73	48
Sept	264	63	32	59	33	83	60	75	45	50	38	63	36	82	60	56	27	79	51
Sept	265	63	30	61	38	75	52	82	54	41	34	61	39	74	40	76	37	82	52
Sept	266	70	41	62	44	63	43	80	49	51	35	66	36	71	37	75	29	82	56
Sept	267	72	55	50	38	62	38	58	32	56	44	70	45	65	48	41	24	82	51
Sept	268	64	23	51	34	55	39	55	31	52	33	71	47	59	31	27	17	66	43
Sept	269	34	24	52	26	48	38	55	35	68	47	67	52	54	26	37	12	49	31
Sept	270	50	25	54	34	50	40	60	41	74	47	61	36	61	35	54	34	49	31
Sept	271	65	34	55	26	46	37	62	41	75	48	58	38	70	37	54	40	61	38
Sept	272	59	34	65	47	44	36	75	41	81	59	62	37	82	54	50	35	69	40
Sept	273	48	37	75	42	50	32	73	53	81	43	69	44	81	38	69	35	69	44
Oct	274	48	37	75	52	56	41	68	45	74	45	74	50	64	30	69	49	70	40
Oct	275	46	29	62	37	66	38	54	49	74	49	74	46	70	41	72	38	69	45
Oct	276	45	31	70	39	62	43	54	43	70	50	70	49	70	50	68	43	59	42
Oct	277	56	36	72	51	64	39	51	36	70	36	62	32	72	43	64	43	62	35
Oct	278	48	29	55	36	73	48	52	42	73	49	33	27	71	50	61	46	59	35
Oct	279	43	28	62	40	67	45	60	36	68	40	64	24	60	39	73	38	62	42
Oct	280	44	29	65	31	58	34	65	41	42	34	68	45	60	35	80	39	65	42
Oct	281	49	30	73	49	56	32	70	49	54	34	60	30	67	41	74	47	72	43
Oct	282	64	34	66	52	51	41	69	43	70	41	33	21	63	31	65	44	69	21
Oct	283	51	42	79	48	52	36	60	42	64	34	31	19	62	34	71	44	56	24
Oct	284	42	29	75	54	42	31	51	42	46	32	43	17	62	35	75	44	71	33
Oct	285	39	31	56	26	60	34	47	30	50	32	53	37	56	28	76	45	70	50
Oct	286	61	34	34	20	65	36	53	33	51	37	63	47	69	40	74	50	62	42
Oct	287	65	41	37	22	69	44	56	34	57	33	67	40	69	45	53	39	71	44
Oct	288	65	33	49	34	62	49	55	23	59	45	69	41	63	30	61	41	72	57
Oct	289	74	46	45	33	71	41	26	13	63	35	67	44	40	25	57	38	66	36
Oct	290	77	50	48	29	68	54	25	8	66	41	72	42	39	32	56	36	54	29
Oct	291	72	52	59	30	63	45	26	19	65	50	52	27	58	32	67	40	67	43
Oct	292	73	45	57	30	56	39	32	10	62	49	30	16	57	25	65	48	70	40
Oct	293	68	44	61	33	52	37	27	18	70	42	21	15	61	35	56	35	68	30
Oct	294	72	54	59	38	52	36	43	22	65	28	48	20	35	22	62	44	33	23
Oct	295	69	52	51	12	43	28	43	33	56	28	59	33	42	19	65	52	30	15
Oct	296	67	49	51	24	36	26	52	31	55	43	59	37	61	31	63	32	46	23
Oct	297	69	48	52	39	54	21	61	38	53	38	52	35	56	26	45	31	55	30
Oct	298	70	46	50	32	57	42	56	44	65	33	35	25	66	32	63	37	51	29
Oct	299	68	53	56	29	56	48	48	35	52	31	39	24	53	39	62	43	52	32
Oct	300	64	43	50	40	59	39	50	35	36	30	37	28	63	36	46	23	62	43

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		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	65	48	43	25	54	26	47	30	40	36	55	30	61	47	51	23	66	44
Oct	302	56	38	34	23	30	20	42	32	39	30	53	18	67	48	45	28	61	22
Oct	303	45	28	33	23	31	18	44	26	34	17	35	7	71	43	57	28	24	5
Oct	304	38	29	38	23	31	22	58	32	51	19	31	22	67	49	55	23	9	-1
Nov	305	33	22	35	16	31	20	60	38	57	42	37	16	64	25	63	26	30	-2
Nov	306	44	24	21	12	38	26	56	35	63	48	43	31	44	24	59	31	11	2
Nov	307	44	34	34	5	27	22	60	43	60	34	57	29	51	34	45	27	13	2
Nov	308	44	27	48	14	51	19	59	33	60	32	53	33	36	5	42	25	28	5
Nov	309	44	21	52	28	42	29	54	27	58	28	40	28	34	4	57	29	31	10
Nov	310	43	24	49	32	35	22	53	29	61	48	46	35	34	20	63	50	38	29
Nov	311	44	29	45	32	29	20	59	39	65	47	48	32	35	14	56	39	44	32
Nov	312	43	26	39	21	45	20	60	42	62	45	35	27	37	27	58	38	51	34
Nov	313	55	35	41	28	54	32	65	36	55	28	29	19	41	20	55	32	44	14
Nov	314	56	29	50	27	49	35	53	38	41	21	29	20	51	39	48	26	21	0
Nov	315	30	13	59	39	37	18	52	33	41	25	25	9	55	39	48	34	45	9
Nov	316	35	6	54	35	24	15	53	28	37	20	30	17	55	34	64	34	48	26
Nov	317	45	18	59	32	33	18	52	33	44	28	42	25	56	32	66	42	42	29
Nov	318	35	8	58	36	44	28	39	21	54	32	54	26	55	38	62	41	32	18
Nov	319	35	9	54	29	56	37	28	15	50	39	47	7	42	29	62	39	43	17
Nov	320	34	12	38	29	53	42	41	19	49	31	31	1	59	27	59	43	49	30
Nov	321	35	19	36	23	54	34	40	25	41	25	36	23	57	28	55	33	44	27
Nov	322	35	28	33	23	39	18	37	24	40	25	37	30	52	38	52	30	43	23
Nov	323	46	19	25	16	20	11	25	12	39	16	40	21	60	45	48	33	38	20
Nov	324	51	42	24	14	17	0	22	16	32	9	52	21	50	41	38	28	40	31
Nov	325	42	16	43	14	16	-13	25	21	10	-6	57	25	44	30	34	20	34	23
Nov	326	31	16	45	32	27	-2	41	22	9	-6	48	22	42	30	35	13	45	30
Nov	327	40	19	52	30	30	11	48	18	12	3	48	30	45	31	45	28	44	31
Nov	328	44	29	49	38	31	17	35	16	26	12	38	22	57	32	41	28	43	31
Nov	329	51	41	40	23	38	33	45	19	33	19	62	36	53	33	37	24	46	25
Nov	330	47	25	44	28	40	30	35	19	30	5	54	23	55	34	30	23	42	25
Nov	331	44	24	65	46	44	30	42	15	30	0	54	28	55	32	29	13	34	25
Nov	332	46	27	48	33	40	16	47	30	28	17	60	37	41	25	29	9	40	25
Nov	333	38	15	47	32	20	7	40	29	36	9	56	48	35	21	27	13	49	37
Nov	334	30	11	43	32	34	9	40	26	39	20	61	40	43	27	27	18	46	31
Dec	335	30	23	44	29	26	0	45	26	45	20	57	50	43	30	27	13	39	14
Dec	336	40	26	42	21	25	-1	43	31	51	31	54	32	45	33	22	15	40	28
Dec	337	40	5	37	20	40	24	40	21	48	28	46	28	53	37	24	17	41	20
Dec	338	35	11	27	4	52	38	38	29	39	20	45	27	48	25	23	13	46	27
Dec	339	42	28	17	-2	47	33	38	24	28	12	43	30	31	17	23	15	48	24
Dec	340	40	-17	30	9	43	10	39	23	34	22	42	21	48	23	29	9	42	24
Dec	341	-12	-22	30	23	31	10	43	31	46	18	21	3	45	28	40	8	40	32
Dec	342	19	-15	41	19	24	7	55	38	39	20	7	-16	31	23	44	26	40	28
Dec	343	22	-12	50	33	44	13	54	41	34	15	-16	-23	42	27	40	20	35	20
Dec	344	1	-16	48	26	51	37	48	34	31	20	-7	-25	30	2	41	24	46	23
Dec	345	30	-6	55	25	48	42	42	29	27	16	-6	-16	35	6	53	31	39	28
Dec	346	38	26	43	34	48	42	39	31	20	6	-6	-21	47	-1	51	39	45	22
Dec	347	34	17	40	22	52	23	36	21	22	9	4	-12	48	31	47	26	45	20
Dec	348	31	-12	42	25	56	45	33	25	31	16	20	3	48	29	47	34	22	16
Dec	349	8	-8	40	22	52	39	31	21	39	16	20	10	31	24	43	27	30	19
Dec	350	22	5	35	14	47	11	39	16	46	21	27	-3	29	16	33	25	37	13

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1927	1927	1928	1928	1929	1929	1930	1930	1931	1931	1932	1932	1933	1933	1934	1934	1935	1935
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	14	-5	22	16	15	-4	36	21	57	29	34	19	32	12	36	21	38	30
Dec	352	20	-3	23	13	8	-9	23	18	60	32	31	21	50	15	30	21	36	23
Dec	353	36	7	29	-1	19	-3	24	15	58	36	28	14	48	36	31	23	24	13
Dec	354	41	22	26	6	19	1	25	16	58	35	36	15	46	31	33	24	37	12
Dec	355	38	18	32	16	20	7	23	16	51	31	36	27	53	40	34	18	29	21
Dec	356	35	13	34	19	28	8	30	18	48	32	40	23	55	45	39	22	40	23
Dec	357	33	16	36	29	38	18	43	28	38	28	35	26	51	26	29	12	24	16
Dec	358	27	18	42	21	40	28	41	24	46	25	42	22	27	5	31	14	30	0
Dec	359	38	20	43	35	51	40	37	15	49	33	38	21	21	3	31	-13	14	-12
Dec	360	40	28	44	33	45	27	39	23	43	35	26	15	21	-16	39	-16	28	9
Dec	361	36	28	51	29	39	23	33	21	46	27	32	15	32	19	40	-4	33	25
Dec	362	34	7	51	26	35	19	40	22	45	35	28	15	47	8	40	-5	34	27
Dec	363	11	-11	47	20	48	33	32	21	44	26	27	19	57	38	34	18	33	26
Dec	364	-12	-20	37	18	48	38	34	23	28	13	22	11	51	42	34	24	39	19
Dec	365	-16	-27	35	15	46	25	39	17	21	13	21	16	46	20	28	14	34	19
29 Feb	366			37	5							38	13						

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	32	25	8	-1	36	24	51	38	24	6	34	21	0	-18	41	28	39	20
Jan	2	39	22	9	-2	42	25	51	45	37	20	24	13	16	-6	39	12	44	26
Jan	3	37	17	25	-4	35	18	47	30	35	19	23	10	16	-10	25	-3	37	19
Jan	4	30	18	28	19	45	28	43	27	21	4	15	2	-4	-16	26	15	25	18
Jan	5	30	-3	21	-7	44	29	41	20	28	14	17	3	8	-8	37	14	28	8
Jan	6	20	-7	-7	-21	30	16	38	24	28	12	34	5	8	-7	36	15	24	12
Jan	7	36	7	-10	-20	21	13	45	23	18	9	36	20	5	-12	26	19	28	11
Jan	8	30	14	0	-16	30	20	51	32	28	10	38	22	19	2	37	17	42	17
Jan	9	33	23	18	-14	28	16	39	24	37	12	49	26	19	3	39	33	39	22
Jan	10	35	30	34	-1	33	25	29	21	40	31	53	38	35	19	47	35	33	20
Jan	11	45	21	32	14	32	12	31	17	36	9	53	36	45	32	35	19	30	7
Jan	12	43	26	43	15	37	6	32	21	27	14	54	29	50	31	34	23	40	12
Jan	13	40	29	39	18	39	28	29	20	20	6	49	27	51	31	49	23	51	27
Jan	14	39	23	18	-10	51	19	26	8	24	14	46	27	51	28	48	27	50	37
Jan	15	33	20	29	-8	50	39	28	3	34	21	49	27	54	36	41	24	42	27
Jan	16	27	12	29	6	48	31	27	18	34	22	30	15	53	35	24	-19	39	27
Jan	17	21	-6	13	-1	35	25	25	19	23	-9	19	8	47	27	-11	-27	54	27
Jan	18	21	-5	13	5	34	24	30	23	0	-25	41	12	40	22	-13	-30	48	30
Jan	19	19	-4	15	-5	37	19	37	26	9	-3	42	37	40	24	18	-12	46	32
Jan	20	26	14	-5	-21	31	22	39	29	8	2	44	33	46	29	35	-26	50	37
Jan	21	28	16	1	-14	38	20	36	8	18	0	38	17	56	34	49	33	46	23
Jan	22	41	26	18	-1	46	31	44	0	20	9	20	14	57	38	48	43	46	27
Jan	23	41	24	25	9	44	23	38	25	13	-11	26	12	54	38	46	22	53	33
Jan	24	35	5	19	1	24	11	34	19	-7	-18	29	9	46	30	22	-10	50	30
Jan	25	18	-5	22	-3	17	4	37	18	10	-17	34	-4	46	30	24	5	37	24
Jan	26	15	-3	33	12	29	17	34	15	34	-6	42	19	47	30	39	9	30	21
Jan	27	28	-2	31	2	45	27	39	29	40	24	42	24	50	28	42	22	26	16
Jan	28	27	-3	29	-3	44	21	37	21	42	34	49	34	61	40	40	26	29	17
Jan	29	15	-2	13	-14	22	-11	34	22	49	38	48	36	50	21	36	11	26	13
Jan	30	21	-1	17	-14	2	-19	38	18	48	34	57	20	26	19	20	12	29	12
Jan	31	21	3	17	0	12	-6	35	20	40	23	53	34	29	15	28	11	40	16
Feb	32	6	-7	35	0	44	8	21	-4	26	9	50	24	32	16	41	24	42	25
Feb	33	10	-4	43	31	41	11	18	0	35	10	49	33	43	22	47	30	40	25
Feb	34	4	-13	39	11	44	28	25	1	32	21	40	29	43	22	45	23	45	26
Feb	35	3	-10	39	17	41	35	27	8	44	22	49	29	45	28	28	15	45	37
Feb	36	12	-9	40	22	37	23	28	9	41	30	49	39	43	28	31	20	42	13
Feb	37	22	-15	28	16	41	20	34	19	37	28	45	10	37	21	45	20	49	27
Feb	38	19	-34	28	-3	45	34	34	-15	37	27	36	9	36	26	49	37	47	32
Feb	39	-9	-40	22	-5	47	36	-9	-26	29	9	47	19	35	23	49	18	34	22
Feb	40	27	-11	14	-2	44	19	-8	-25	37	19	45	24	30	18	18	-7	30	14
Feb	41	20	3	34	11	48	28	6	-21	46	33	41	24	32	11	21	-8	18	-9
Feb	42	16	-12	45	30	50	39	31	-4	42	16	47	30	34	19	34	18	24	-8
Feb	43	-12	-26	48	32	49	19	49	24	25	15	44	24	32	21	30	19	23	14
Feb	44	-17	-27	47	14	35	5	40	24	36	11	31	10	24	12	44	28	24	12
Feb	45	5	-27	44	21	33	7	30	22	41	20	32	19	24	8	52	31	23	10
Feb	46	-2	-24	39	16	7	-6	35	21	36	18	39	19	27	10	48	21	22	-2
Feb	47	-6	-18	51	29	7	-11	22	6	29	11	38	18	21	-3	50	28	32	10
Feb	48	-5	-22	49	20	20	-6	42	14	43	11	34	19	-3	-19	52	29	27	-2
Feb	49	15	-5	37	20	35	10	52	30	41	18	32	19	11	-9	56	37	27	1
Feb	50	28	4	30	12	36	17	46	-8	29	13	29	12	23	11	55	35	27	12

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	24	8	30	11	28	15	15	-12	26	12	28	10	38	22	49	34	40	18
Feb	52	40	8	22	11	36	17	14	5	23	8	29	12	39	20	60	37	38	14
Feb	53	51	27	25	15	33	19	29	5	22	4	42	16	27	20	60	23	40	11
Feb	54	49	33	24	15	29	16	30	21	17	1	40	7	21	3	25	15	43	24
Feb	55	34	17	22	12	32	23	25	10	31	0	17	3	21	0	20	10	45	25
Feb	56	37	23	20	-7	45	28	41	15	49	16	28	14	19	12	24	15	43	19
Feb	57	31	5	25	3	56	37	38	27	45	22	30	18	24	5	39	20	30	8
Feb	58	38	19	26	3	55	37	31	9	49	27	50	20	38	8	40	29	30	18
Feb	59	38	30	33	16	53	30	24	7	54	36	54	32	35	17	30	22	33	15
Mar	60	45	29	42	24	53	37	27	9	56	36	59	40	34	23	24	-8	46	19
Mar	61	44	35	48	28	50	32	36	20	50	29	60	16	47	25	11	-15	50	33
Mar	62	47	35	47	29	40	28	34	19	48	24	22	11	48	28	34	7	48	22
Mar	63	48	32	49	28	35	15	29	15	47	28	41	21	35	29	33	-1	33	12
Mar	64	38	19	65	38	18	9	19	1	45	22	40	28	46	29	0	-9	45	19
Mar	65	47	26	64	36	27	9	38	12	45	34	31	21	46	20	13	-10	52	14
Mar	66	50	34	58	26	41	20	44	24	35	26	44	25	25	14	34	-5	17	2
Mar	67	50	31	44	21	44	20	38	22	32	23	52	36	37	24	32	24	20	0
Mar	68	47	32	47	30	47	26	51	18	45	21	52	18	46	31	28	12	36	16
Mar	69	54	32	46	34	45	31	49	31	34	18	22	15	46	28	37	6	50	29
Mar	70	34	20	38	23	49	31	43	20	32	17	22	4	43	21	37	12	49	27
Mar	71	22	18	32	19	54	33	50	27	27	18	14	4	45	33	42	20	29	17
Mar	72	48	10	23	11	53	35	54	31	20	9	29	-2	45	23	49	23	38	9
Mar	73	48	26	29	10	48	35	51	2	17	9	28	13	41	27	49	18	34	2
Mar	74	38	26	45	15	46	35	26	11	40	15	37	17	31	24	20	-5	11	-6
Mar	75	34	18	55	31	56	29	24	11	48	36	37	-2	30	19	5	-10	21	5
Mar	76	38	24	55	24	55	30	27	11	55	41	46	3	33	21	13	-6	37	16
Mar	77	57	29	47	24	41	23	50	21	53	26	58	34	39	26	13	-4	38	32
Mar	78	55	29	42	25	53	35	52	42	41	22	53	35	37	21	24	3	32	12
Mar	79	40	24	42	26	60	28	60	36	40	24	47	32	27	19	24	3	42	18
Mar	80	40	29	40	22	53	25	65	40	39	18	47	30	44	20	47	4	41	24
Mar	81	54	26	34	20	34	20	65	38	37	23	35	20	56	33	46	27	28	17
Mar	82	53	23	29	21	48	22	66	41	41	25	34	22	58	36	50	28	38	14
Mar	83	24	16	25	10	49	29	66	40	27	15	30	19	45	25	53	35	48	32
Mar	84	26	12	24	-3	44	25	65	42	35	20	35	22	32	15	53	38	48	11
Mar	85	28	10	20	-2	41	24	60	22	35	19	43	20	19	11	43	30	28	5
Mar	86	32	11	21	1	52	29	29	19	39	17	43	21	19	9	50	28	30	12
Mar	87	39	21	28	6	51	35	37	17	53	24	48	12	25	12	65	37	29	8
Mar	88	40	16	29	14	42	24	39	19	51	32	56	35	22	13	71	51	14	2
Mar	89	17	7	40	16	30	12	43	27	47	33	56	36	40	18	69	45	14	-6
Mar	90	17	-6	39	27	19	11	43	32	60	32	55	33	55	28	54	28	36	12
Apr	91	16	2	45	29	18	10	43	34	65	41	58	37	61	38	54	35	42	33
Apr	92	9	0	43	30	35	12	49	32	60	34	43	26	64	33	68	36	42	28
Apr	93	13	-3	33	23	41	19	63	35	50	23	32	21	58	33	70	48	42	25
Apr	94	33	7	38	18	45	19	64	40	26	19	45	25	61	32	71	31	52	29
Apr	95	28	17	42	25	41	22	49	17	27	17	54	33	55	31	65	35	53	31
Apr	96	24	5	44	24	22	10	28	5	49	15	49	27	47	32	59	45	62	35
Apr	97	24	15	41	24	26	3	34	23	49	33	33	26	42	18	65	34	64	38
Apr	98	45	14	36	25	40	12	52	31	34	20	33	27	55	31	65	45	51	33
Apr	99	45	35	50	21	62	28	54	35	47	22	47	29	57	31	48	42	49	33
Apr	100	44	29	57	31	57	39	41	27	49	37	56	33	45	29	47	38	49	30

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	48	34	62	38	54	30	28	8	39	22	58	38	61	34	46	32	47	26
Apr	102	59	38	57	31	60	30	46	12	24	-1	58	39	66	45	51	37	54	26
Apr	103	66	46	61	33	62	46	49	35	44	11	57	33	61	39	48	25	64	35
Apr	104	68	44	61	36	62	35	48	33	63	42	35	30	74	50	54	21	64	37
Apr	105	67	40	71	37	46	35	50	35	64	48	43	26	77	41	64	42	48	31
Apr	106	64	33	71	29	56	40	44	21	55	33	48	29	63	35	60	28	43	23
Apr	107	56	29	46	31	58	43	27	20	35	26	48	32	66	41	60	37	38	21
Apr	108	64	34	58	32	70	44	52	23	42	25	44	20	60	40	60	27	39	21
Apr	109	69	40	60	34	68	32	54	37	61	37	23	17	47	39	64	37	49	23
Apr	110	75	43	57	37	49	31	41	26	60	38	38	22	62	37	61	45	52	30
Apr	111	73	30	67	34	51	22	61	24	62	36	51	27	72	45	67	41	55	32
Apr	112	49	28	67	28	59	37	73	43	61	37	52	33	74	54	66	36	50	31
Apr	113	64	35	39	26	55	33	75	48	43	30	51	27	72	32	73	33	32	28
Apr	114	63	36	43	27	57	37	60	43	41	21	57	37	37	31	73	42	43	32
Apr	115	53	34	47	26	69	45	52	34	47	33	57	37	40	36	57	32	50	30
Apr	116	54	30	53	24	68	44	57	35	46	32	57	43	47	33	56	35	52	29
Apr	117	59	33	53	29	45	30	63	38	68	33	57	42	47	30	47	29	46	32
Apr	118	56	37	50	31	60	28	72	40	68	48	54	43	60	31	61	38	57	36
Apr	119	54	30	38	30	71	44	78	50	59	36	55	43	59	36	57	36	47	40
Apr	120	48	27	44	32	81	51	78	54	45	33	59	37	45	31	57	29	52	39
May	121	43	28	43	36	81	51	76	47	45	27	71	43	37	31	71	42	49	36
May	122	41	29	42	35	63	38	67	44	52	33	70	52	38	31	66	40	49	37
May	123	60	31	51	39	65	33	71	45	68	43	67	50	44	29	69	37	38	31
May	124	70	42	63	36	48	34	75	48	74	50	66	50	44	30	68	52	33	25
May	125	78	51	66	43	48	33	77	57	70	43	61	42	35	24	64	33	42	26
May	126	79	58	68	43	43	24	70	40	67	42	55	35	47	28	48	29	60	19
May	127	79	38	64	43	41	24	55	40	60	34	51	35	58	33	46	31	61	42
May	128	44	37	52	35	43	30	58	30	60	36	55	35	64	40	40	30	57	31
May	129	49	31	69	38	57	30	63	51	65	36	59	40	64	44	57	29	57	29
May	130	57	39	74	50	59	39	61	36	69	48	62	39	61	44	58	34	72	43
May	131	63	42	75	42	49	42	49	33	68	39	71	43	62	46	48	20	66	49
May	132	74	41	58	43	55	37	52	35	82	50	82	54	58	43	35	13	66	48
May	133	74	42	64	34	59	39	64	34	81	54	85	59	50	28	45	22	72	50
May	134	66	39	73	50	55	36	67	45	70	38	84	50	47	26	48	37	78	51
May	135	82	53	73	46	62	31	78	47	47	27	53	44	57	38	47	30	78	52
May	136	87	63	64	34	62	43	78	54	61	33	63	38	56	26	44	31	76	52
May	137	81	48	71	52	48	40	76	52	62	41	77	48	32	25	42	32	70	50
May	138	69	42	73	41	64	41	77	51	60	38	78	61	41	26	52	29	66	48
May	139	65	37	80	59	60	44	81	57	51	34	65	33	48	30	53	33	66	44
May	140	72	48	76	47	44	37	78	39	66	36	62	36	57	35	63	33	64	44
May	141	79	53	58	35	51	31	71	37	63	45	71	43	54	39	67	41	60	43
May	142	80	45	68	34	60	40	70	46	54	40	71	38	62	34	70	45	68	43
May	143	66	43	71	54	58	38	67	50	60	37	73	35	72	45	69	43	73	45
May	144	64	44	65	45	65	46	54	46	64	41	79	53	76	54	54	37	74	42
May	145	73	47	69	39	64	45	49	39	66	45	80	57	76	49	57	40	66	47
May	146	81	56	68	46	65	46	61	42	61	33	66	54	80	54	61	38	58	42
May	147	80	47	74	46	74	42	68	44	62	35	69	51	78	49	79	48	66	40
May	148	80	57	86	56	78	60	76	49	62	36	69	50	75	41	81	56	70	46
May	149	78	58	88	48	72	44	84	55	67	46	72	49	75	45	78	50	69	52
May	150	77	56	54	37	60	42	87	63	72	50	61	44	49	40	66	50	78	50

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	78	53	47	36	61	44	77	48	71	46	63	42	58	38	64	39	77	54
June	152	75	58	58	42	62	42	54	45	82	53	66	39	67	45	63	45	76	53
June	153	71	47	61	45	73	46	52	37	83	59	64	42	69	49	60	48	78	51
June	154	49	37	70	50	72	49	74	36	81	52	67	44	73	51	59	29	68	52
June	155	52	39	70	31	73	43	84	50	62	46	74	50	72	49	40	28	66	48
June	156	62	42	37	31	78	52	88	65	58	44	64	46	71	49	48	32	55	32
June	157	58	48	46	32	78	42	86	49	70	49	55	42	68	44	59	36	39	30
June	158	67	47	53	39	56	40	67	45	65	47	48	39	65	48	64	42	58	31
June	159	82	52	51	34	77	42	64	41	66	43	45	39	69	49	62	42	59	43
June	160	82	52	53	40	79	42	64	47	65	53	51	40	74	57	60	41	46	42
June	161	66	39	67	34	58	40	54	36	61	40	47	42	70	50	75	47	52	41
June	162	66	38	68	47	63	35	55	39	65	40	53	42	75	38	79	47	61	46
June	163	75	49	64	51	81	51	52	40	74	47	58	48	66	37	65	43	61	45
June	164	85	54	67	43	81	59	67	41	76	54	58	41	61	35	69	46	68	48
June	165	85	63	63	41	71	49	69	48	87	56	65	41	62	48	69	47	71	46
June	166	88	53	70	41	69	49	64	48	87	61	70	51	74	47	68	42	74	53
June	167	89	66	76	50	79	50	77	51	82	50	71	53	74	44	57	43	74	50
June	168	91	57	80	63	80	59	70	46	83	60	81	53	69	38	77	45	74	52
June	169	79	49	79	49	84	55	57	38	87	57	86	64	72	43	83	55	65	42
June	170	88	65	74	53	81	50	63	44	86	57	86	54	73	49	83	61	60	38
June	171	80	50	81	56	81	56	72	46	85	59	85	51	64	42	83	60	75	37
June	172	89	52	84	56	86	57	73	49	85	55	75	51	56	39	80	56	75	58
June	173	89	59	90	71	85	63	71	47	80	59	77	59	58	35	89	66	74	51
June	174	82	49	92	72	84	62	83	51	80	57	84	61	62	43	89	55	68	52
June	175	87	61	84	50	72	52	85	48	76	41	89	64	64	43	81	52	76	47
June	176	95	66	73	49	61	45	83	48	67	46	89	64	70	48	87	59	82	51
June	177	94	74	71	44	71	45	79	47	78	49	77	54	80	60	80	61	85	62
June	178	90	60	77	53	74	57	76	59	80	62	84	62	79	48	76	47	84	64
June	179	95	59	79	56	78	54	75	48	72	56	85	57	61	43	66	40	77	47
June	180	93	75	83	56	80	57	70	49	64	47	74	50	66	48	70	48	58	37
June	181	83	58	86	61	75	57	74	49	81	47	73	48	69	47	79	58	77	41
July	182	79	48	87	58	76	56	85	65	82	56	65	52	70	45	80	53	82	61
July	183	80	48	83	60	85	59	83	66	80	55	64	47	71	48	78	47	87	62
July	184	89	64	81	57	85	60	76	54	65	53	71	48	79	55	74	59	85	65
July	185	97	64	93	58	83	62	88	54	72	52	77	56	80	55	70	49	68	47
July	186	97	57	98	75	78	57	88	54	77	54	77	59	80	60	75	48	74	51
July	187	98	71	98	66	75	50	84	59	83	60	79	57	83	60	79	51	87	60
July	188	100	72	78	55	67	50	83	54	85	59	82	57	88	61	81	59	85	57
July	189	101	66	88	59	77	50	85	58	81	52	83	63	87	62	79	61	76	51
July	190	90	68	90	64	78	60	92	50	81	64	82	58	87	50	87	55	66	46
July	191	93	62	79	56	84	58	97	70	87	58	79	53	82	58	85	56	74	49
July	192	94	69	79	60	84	67	97	74	86	64	67	44	88	62	84	66	70	48
July	193	95	71	64	59	86	62	95	68	82	57	61	50	89	53	83	58	64	50
July	194	91	57	64	55	82	56	89	67	84	57	72	45	88	52	80	45	74	46
July	195	75	55	71	51	79	48	87	67	93	60	72	54	85	62	84	46	77	57
July	196	86	56	71	51	83	61	88	62	89	61	76	51	88	62	82	64	77	50
July	197	97	69	71	50	72	54	89	49	76	55	79	62	87	61	75	48	76	47
July	198	98	74	71	54	72	53	83	54	86	63	84	58	86	62	76	46	80	61
July	199	90	65	72	52	81	56	81	56	89	70	85	57	85	56	85	58	84	55
July	200	93	63	79	54	82	53	90	56	87	61	87	61	76	52	84	59	81	50

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	95	73	85	57	72	51	95	72	82	62	72	62	75	48	90	65	77	53
July	202	93	57	90	60	72	53	77	50	82	61	83	63	76	45	90	58	77	52
July	203	90	64	85	64	80	48	77	48	91	64	91	63	83	53	86	66	77	54
July	204	91	71	80	55	87	63	85	50	93	63	91	63	88	58	84	61	78	54
July	205	98	64	77	58	88	58	81	59	96	65	87	62	82	53	87	58	79	51
July	206	100	71	76	46	73	50	84	56	97	71	88	64	77	54	90	66	85	62
July	207	91	70	86	59	70	54	86	59	87	56	88	60	74	52	90	70	77	58
July	208	91	60	86	64	78	51	88	59	76	50	81	59	74	54	86	60	74	52
July	209	81	53	83	55	78	54	89	60	86	57	85	65	75	56	86	59	75	54
July	210	83	62	85	63	77	48	88	67	83	54	85	63	79	56	84	57	81	66
July	211	81	60	83	53	82	48	85	55	86	60	82	54	75	53	85	57	85	57
July	212	85	59	88	65	88	58	81	60	85	61	83	58	85	58	91	68	89	60
Aug	213	86	64	88	65	91	62	77	60	83	64	84	57	87	55	93	74	76	57
Aug	214	89	66	87	54	93	68	80	51	90	63	84	62	85	56	92	58	88	58
Aug	215	80	60	76	54	85	54	82	58	89	65	87	63	75	52	72	53	82	58
Aug	216	66	56	84	54	86	56	85	57	82	50	97	69	85	51	80	49	78	58
Aug	217	64	52	88	61	88	56	82	57	81	65	93	74	85	58	87	62	74	49
Aug	218	74	49	92	68	88	59	85	48	70	50	92	65	76	53	88	70	74	50
Aug	219	85	54	92	69	87	49	82	41	84	54	83	62	75	52	87	61	90	60
Aug	220	88	63	89	59	86	63	64	41	84	61	82	60	79	53	85	66	88	66
Aug	221	89	63	88	65	81	64	61	42	85	56	88	64	80	54	86	55	94	65
Aug	222	90	63	88	52	75	51	52	39	88	60	87	63	79	53	88	55	91	72
Aug	223	93	74	76	52	89	59	66	43	88	66	84	64	91	61	87	68	91	58
Aug	224	93	65	81	54	94	69	80	47	89	60	80	55	90	61	89	56	85	54
Aug	225	88	61	92	62	95	72	87	52	87	57	79	62	77	46	89	50	84	58
Aug	226	84	63	94	72	82	50	87	59	89	60	75	60	63	49	86	64	87	56
Aug	227	84	58	92	71	71	47	91	65	93	64	78	50	67	48	88	50	77	52
Aug	228	86	58	88	60	74	45	89	58	89	59	77	55	76	46	74	49	70	44
Aug	229	86	44	79	60	83	54	87	64	83	53	72	55	82	52	84	53	70	47
Aug	230	90	59	82	62	86	60	81	62	78	49	72	51	86	49	87	67	79	42
Aug	231	90	58	79	57	83	48	69	44	68	41	73	52	86	61	86	59	91	63
Aug	232	86	50	79	46	69	44	64	38	78	50	73	51	92	60	85	56	88	59
Aug	233	79	59	91	62	84	60	73	48	79	51	74	54	89	59	84	55	78	51
Aug	234	73	51	91	67	87	64	64	48	81	51	76	50	88	45	89	70	80	50
Aug	235	84	55	94	69	88	66	79	46	80	59	79	51	74	43	85	62	75	49
Aug	236	92	64	94	58	84	57	86	57	89	51	78	59	89	43	83	58	66	52
Aug	237	93	69	83	51	78	54	87	64	83	58	70	48	89	59	77	60	79	54
Aug	238	89	49	91	60	75	60	87	60	77	55	62	46	82	52	73	49	73	60
Aug	239	78	56	94	70	80	55	83	64	66	52	70	46	88	60	82	53	71	45
Aug	240	78	52	95	64	82	57	83	54	74	53	72	53	85	51	83	58	74	49
Aug	241	65	48	71	46	86	61	82	56	74	53	75	52	75	54	84	61	81	49
Aug	242	74	43	74	46	84	58	83	55	65	50	75	60	75	55	86	67	81	47
Aug	243	84	55	87	64	82	50	85	60	71	41	72	49	73	55	86	48	58	47
Sept	244	84	60	89	64	78	53	83	60	86	54	79	56	76	45	79	46	66	45
Sept	245	84	56	85	62	70	52	81	61	88	63	84	54	77	45	78	52	80	45
Sept	246	84	56	83	55	78	46	79	52	89	61	83	58	85	48	68	43	78	52
Sept	247	83	65	71	53	77	49	82	47	86	66	68	47	80	52	71	43	71	49
Sept	248	77	58	80	55	79	59	82	65	82	60	66	52	78	51	75	39	73	50
Sept	249	81	60	80	51	80	54	80	58	81	62	71	46	77	55	64	39	74	46
Sept	250	80	58	78	50	71	54	70	42	81	62	69	47	82	55	61	37	73	45

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	78	43	86	58	70	52	63	43	80	58	52	32	81	56	55	35	84	52
Sept	252	79	51	85	53	72	61	66	52	81	65	53	33	88	62	65	33	83	60
Sept	253	79	52	72	44	70	44	80	43	77	44	64	39	87	64	72	40	77	51
Sept	254	80	48	73	52	68	47	81	60	59	32	80	51	77	48	71	52	58	43
Sept	255	80	54	78	48	66	48	82	64	72	38	80	57	63	49	70	41	65	35
Sept	256	81	49	79	52	62	48	83	56	77	53	74	54	63	53	80	50	66	41
Sept	257	82	50	74	52	72	53	80	64	77	58	65	52	65	47	80	40	76	46
Sept	258	81	41	72	46	63	39	75	46	77	58	68	45	70	44	64	33	80	55
Sept	259	58	34	65	38	68	44	74	47	74	48	65	39	70	40	63	31	78	42
Sept	260	65	35	71	43	65	50	77	48	78	50	79	49	56	40	85	51	72	40
Sept	261	66	42	80	50	63	38	79	51	75	58	81	59	56	28	84	61	75	44
Sept	262	76	43	84	59	76	39	78	54	75	57	81	60	51	26	61	32	65	39
Sept	263	77	46	89	64	82	51	77	50	74	52	81	45	66	31	72	43	63	43
Sept	264	79	46	86	64	81	55	77	50	75	52	56	36	66	31	69	51	71	43
Sept	265	83	57	78	47	83	56	78	59	69	49	44	34	55	39	58	43	71	42
Sept	266	84	58	79	36	82	54	75	46	72	56	55	39	55	30	68	38	69	51
Sept	267	84	42	39	30	88	60	63	54	66	54	54	36	38	30	72	47	60	38
Sept	268	73	37	50	29	80	62	57	29	61	45	50	36	40	22	81	55	75	42
Sept	269	75	35	57	34	75	55	54	31	61	40	71	40	47	17	83	58	77	49
Sept	270	35	27	57	36	75	51	71	40	67	43	70	25	50	31	79	58	75	43
Sept	271	52	22	52	39	76	44	65	32	69	48	55	26	69	31	80	54	72	42
Sept	272	59	35	76	42	81	57	42	27	68	48	59	37	75	49	71	56	63	33
Sept	273	64	39	76	36	79	50	66	36	58	46	59	41	73	56	69	46	72	44
Oct	274	64	29	70	42	76	63	73	45	61	53	59	40	69	50	73	45	66	28
Oct	275	52	29	76	54	79	55	70	45	61	46	48	33	67	47	73	48	32	24
Oct	276	57	35	77	59	77	57	65	36	57	42	59	31	58	40	78	50	46	27
Oct	277	68	45	76	44	77	49	53	36	67	43	59	36	58	37	75	52	65	31
Oct	278	68	42	54	33	71	54	64	35	54	38	47	34	68	35	79	54	67	42
Oct	279	63	38	46	28	70	52	66	44	54	38	52	31	75	45	76	47	72	43
Oct	280	51	35	60	36	64	45	66	31	51	39	54	32	75	54	74	47	60	37
Oct	281	69	35	59	37	67	44	58	36	64	38	53	38	74	45	74	49	59	31
Oct	282	74	48	61	38	63	44	49	32	74	41	53	30	75	48	73	50	65	42
Oct	283	73	43	63	38	62	45	54	38	70	50	67	36	78	51	78	53	61	45
Oct	284	55	35	63	39	65	42	49	40	63	41	67	36	78	60	76	58	58	39
Oct	285	71	42	60	28	65	38	58	39	67	50	72	49	72	52	69	38	60	29
Oct	286	69	57	34	28	72	48	55	32	68	44	66	42	53	38	54	33	69	46
Oct	287	63	48	52	28	72	35	67	30	65	43	56	29	54	43	48	26	69	45
Oct	288	71	48	50	30	73	42	65	44	50	32	64	35	55	45	50	26	70	45
Oct	289	69	39	49	30	73	32	59	24	63	35	59	50	53	41	55	36	69	50
Oct	290	48	35	54	36	44	32	67	31	63	44	59	42	56	38	72	36	67	45
Oct	291	66	42	52	34	45	24	65	40	67	35	50	37	63	41	70	50	61	45
Oct	292	72	54	47	34	44	26	63	40	67	53	60	31	67	41	58	40	52	30
Oct	293	69	43	45	36	61	39	60	39	68	54	55	38	66	42	47	28	58	29
Oct	294	54	22	46	36	61	48	64	51	73	60	58	37	54	36	53	28	58	39
Oct	295	27	16	54	31	51	29	66	49	73	47	55	45	47	26	53	35	62	32
Oct	296	33	8	61	47	52	23	68	50	72	45	53	32	29	19	49	29	64	45
Oct	297	41	23	64	46	63	42	68	43	68	43	59	43	31	21	48	30	61	46
Oct	298	50	33	64	44	63	45	58	25	68	44	59	44	24	5	62	31	66	47
Oct	299	48	17	55	44	63	42	45	24	69	54	59	35	47	20	66	41	65	44
Oct	300	45	14	67	43	70	46	34	26	67	44	41	27	53	34	69	49	66	39

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	40	32	73	53	69	35	54	31	65	47	54	32	51	31	68	45	66	43
Oct	302	48	31	74	51	65	42	55	26	49	33	48	18	41	32	61	36	68	43
Oct	303	55	37	68	39	66	50	54	28	52	32	33	10	43	26	47	28	65	41
Oct	304	56	39	68	40	61	44	53	35	51	36	43	18	36	23	30	21	67	41
Nov	305	54	36	65	29	53	37	47	27	47	34	42	34	38	31	28	20	65	41
Nov	306	37	13	37	24	46	28	50	18	49	34	42	28	37	20	44	17	65	43
Nov	307	14	1	51	23	41	23	63	32	57	28	47	30	63	29	51	26	46	27
Nov	308	29	1	49	34	43	27	55	34	56	37	46	34	61	22	46	31	37	21
Nov	309	36	24	54	35	29	15	56	26	40	21	44	24	34	13	42	29	52	27
Nov	310	36	27	55	37	29	11	48	36	32	12	43	32	38	13	35	21	65	43
Nov	311	29	7	46	30	30	16	42	34	40	28	43	24	43	23	23	16	60	40
Nov	312	22	8	51	28	41	25	58	32	52	27	39	27	52	25	34	13	44	32
Nov	313	46	11	62	46	46	30	50	35	49	34	51	27	50	19	37	26	42	32
Nov	314	41	30	61	39	43	27	47	25	40	26	47	30	38	20	51	28	49	29
Nov	315	51	33	59	38	28	23	48	36	28	-1	64	30	51	32	49	37	58	37
Nov	316	51	33	54	32	26	14	57	31	2	-6	58	37	51	44	44	23	56	41
Nov	317	49	36	34	20	25	16	63	38	10	-6	52	32	62	34	41	29	58	30
Nov	318	54	41	39	22	36	22	57	43	9	3	55	34	60	47	47	30	53	22
Nov	319	53	46	28	14	41	29	62	37	36	6	54	37	77	36	38	29	24	19
Nov	320	59	35	29	9	44	35	60	39	53	32	55	44	54	31	55	30	29	19
Nov	321	53	42	25	10	42	27	55	32	53	40	50	34	47	24	58	40	37	14
Nov	322	53	37	10	3	36	24	51	30	57	32	45	27	57	32	52	39	44	21
Nov	323	50	36	13	1	46	33	47	33	53	33	29	11	37	28	53	30	45	24
Nov	324	62	41	36	5	46	30	47	30	34	17	24	15	30	24	51	37	43	25
Nov	325	61	37	40	28	45	2	51	30	48	15	31	21	40	15	54	31	39	27
Nov	326	51	26	42	31	19	2	60	40	40	22	22	-4	54	27	53	37	42	27
Nov	327	49	28	54	33	11	-3	55	33	27	16	32	6	60	37	41	30	42	29
Nov	328	33	17	51	34	25	9	40	27	35	15	40	28	57	32	45	31	56	35
Nov	329	37	27	45	28	23	7	43	21	55	23	46	35	37	21	33	18	60	29
Nov	330	39	22	45	22	30	5	41	24	45	30	53	40	28	14	35	16	31	15
Nov	331	54	28	25	20	39	26	44	20	31	25	59	36	29	14	47	26	31	16
Nov	332	51	33	32	11	52	31	45	36	34	18	58	40	24	11	46	20	38	21
Nov	333	49	32	23	21	51	35	53	29	36	21	57	37	27	14	49	24	36	17
Nov	334	45	29	24	18	47	34	53	34	46	32	57	41	32	20	54	35	28	6
Dec	335	39	22	42	19	40	27	50	29	39	24	51	35	20	-1	55	28	39	5
Dec	336	32	19	49	31	39	31	49	26	35	24	58	34	27	3	38	24	48	25
Dec	337	37	23	44	28	38	24	50	35	33	7	65	50	24	2	51	29	50	35
Dec	338	23	13	30	12	29	22	56	40	51	25	60	26	24	12	56	35	50	28
Dec	339	25	3	27	9	48	24	63	47	54	33	34	20	22	11	57	24	37	22
Dec	340	22	11	39	25	40	29	61	52	53	33	48	26	31	5	42	18	46	27
Dec	341	36	-14	32	-6	36	28	58	28	50	31	47	27	33	11	37	29	52	39
Dec	342	41	33	-1	-13	36	27	59	45	42	28	45	24	33	13	32	21	45	27
Dec	343	39	27	7	-11	50	32	59	42	57	40	47	17	30	25	33	15	39	20
Dec	344	33	23	37	-4	45	20	58	34	51	26	26	12	28	18	40	22	21	10
Dec	345	25	15	55	31	21	11	59	42	31	17	37	15	31	22	46	30	25	11
Dec	346	44	23	51	23	25	12	42	28	29	15	35	20	39	27	41	22	29	17
Dec	347	42	23	23	12	33	19	43	30	14	-2	31	12	48	35	31	16	39	25
Dec	348	51	15	33	17	39	20	45	37	14	0	41	23	47	32	24	0	43	29
Dec	349	50	38	41	23	42	29	53	35	18	1	49	31	47	29	41	13	44	35
Dec	350	48	40	37	26	34	16	54	40	24	3	54	38	48	33	49	29	40	24

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1936	1936	1937	1937	1938	1938	1939	1939	1940	1940	1941	1941	1942	1942	1943	1943	1944	1944
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	41	27	34	28	32	20	55	41	27	15	53	31	50	32	47	35	42	25
Dec	352	40	24	37	25	40	19	51	25	41	15	43	26	43	17	53	33	43	14
Dec	353	38	28	26	17	34	23	36	23	40	27	50	33	39	13	47	22	35	15
Dec	354	45	31	33	15	35	11	43	25	44	35	61	43	55	25	43	26	47	25
Dec	355	42	15	37	24	42	25	39	27	48	30	62	32	49	34	38	27	42	8
Dec	356	45	28	24	16	36	22	33	20	50	37	34	23	43	25	29	8	35	2
Dec	357	49	37	20	-2	31	20	23	13	57	33	35	15	40	30	36	12	32	2
Dec	358	50	40	22	-4	37	28	26	7	54	36	36	20	44	26	42	27	20	-9
Dec	359	49	30	26	16	40	18	26	11	47	37	34	14	41	30	46	32	20	5
Dec	360	47	20	34	19	19	-5	22	8	43	21	15	7	37	13	37	13	15	-3
Dec	361	29	15	43	31	25	-5	15	8	40	28	18	6	37	5	34	9	32	5
Dec	362	39	17	51	33	31	0	24	7	43	27	33	7	48	33	38	16	35	13
Dec	363	41	12	51	38	34	-8	30	17	39	27	41	28	39	22	38	21	43	28
Dec	364	17	1	50	38	41	25	38	28	39	16	35	6	41	19	31	14	38	24
Dec	365	16	12	46	24	45	36	38	20	39	24	12	-11	44	34	35	20	33	18
29 Feb	366	16	4							41	28							23	-4

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	22	-12	37	26	24	2	na	na	45	23	44	22	28	8	17	-10	32	20
Jan	2	28	10	44	28	13	-7	47	28	36	-5	40	-20	28	15	25	5	32	19
Jan	3	28	13	51	28	25	-5	41	26	-4	-12	-8	-27	33	20	35	15	35	23
Jan	4	34	20	48	30	43	22	44	21	1	-12	10	-20	28	15	32	15	34	25
Jan	5	43	31	38	26	47	27	44	25	27	0	18	-8	27	8	30	16	30	13
Jan	6	38	29	38	20	40	25	52	26	45	24	28	6	23	7	43	12	28	-4
Jan	7	42	26	36	18	33	21	58	41	59	41	42	14	36	17	na	18	39	26
Jan	8	42	9	35	28	36	29	49	31	45	-2	43	26	44	27	34	18	42	32
Jan	9	43	25	35	16	51	26	34	24	1	-12	39	11	31	23	28	16	58	28
Jan	10	48	27	42	26	55	39	42	19	10	-8	32	11	35	15	42	19	53	31
Jan	11	46	37	34	11	43	30	41	23	36	-3	38	8	36	17	40	19	60	30
Jan	12	46	33	24	7	38	24	25	8	50	3	33	12	32	24	41	13	57	46
Jan	13	46	31	48	22	35	4	16	na	47	32	25	-6	31	20	46	34	49	26
Jan	14	45	29	46	23	19	-1	45	12	53	29	35	-19	37	21	44	24	33	-6
Jan	15	46	19	46	16	14	-5	35	5	39	9	13	-21	40	25	44	20	25	-11
Jan	16	44	29	46	29	34	8	11	-5	11	-3	29	-3	43	24	47	36	44	19
Jan	17	40	27	52	30	43	25	24	-1	31	0	28	-14	38	24	36	19	36	26
Jan	18	42	24	52	34	50	30	23	5	23	5	26	0	38	27	40	21	37	24
Jan	19	42	19	42	30	42	22	34	6	14	-13	43	3	33	16	32	23	36	29
Jan	20	20	8	37	12	23	6	30	23	-5	-21	54	35	25	12	40	13	46	26
Jan	21	30	7	34	9	39	5	37	21	28	-12	54	41	39	12	34	-14	44	28
Jan	22	44	25	48	26	47	34	37	15	31	-5	50	32	40	23	-6	-19	34	23
Jan	23	47	33	40	20	47	36	24	16	-3	-18	42	22	27	15	14	-17	35	29
Jan	24	45	26	40	14	48	35	18	5	-2	-20	41	-15	30	18	41	10	49	28
Jan	25	44	27	42	4	41	24	15	0	22	-12	1	-20	48	24	41	28	55	40
Jan	26	38	18	17	-8	47	27	1	-11	33	0	23	-9	47	0	42	22	45	28
Jan	27	19	13	27	12	29	14	23	-12	28	7	34	14	0	-20	36	29	32	21
Jan	28	21	12	40	17	19	13	33	10	8	-9	34	-11	-8	-23	42	32	35	20
Jan	29	15	-1	39	19	15	5	37	20	24	-10	8	-14	3	-21	42	34	43	31
Jan	30	19	2	20	0	24	4	41	21	26	13	9	-10	5	-9	53	29	40	29
Jan	31	29	4	28	8	18	2	30	19	22	7	13	-6	-1	-16	47	35	47	31
Feb	32	35	16	25	11	31	-4	29	12	10	-4	14	-6	19	-14	48	26	49	34
Feb	33	50	25	43	19	45	28	15	3	20	-5	29	-1	32	9	40	31	41	26
Feb	34	48	38	47	29	41	-2	19	-3	19	-3	40	16	34	28	34	25	46	35
Feb	35	39	16	48	36	27	0	26	8	25	5	50	18	37	21	39	25	47	36
Feb	36	50	28	44	9	48	22	15	0	27	3	45	32	42	24	38	21	37	23
Feb	37	42	20	40	11	43	8	20	-4	25	2	51	31	30	0	42	23	33	21
Feb	38	43	20	39	18	8	-17	17	-5	33	13	45	26	41	-1	50	32	37	24
Feb	39	53	38	23	8	6	-7	36	7	21	8	43	19	44	34	43	19	39	23
Feb	40	45	21	41	13	16	-1	32	1	19	10	34	22	49	32	54	29	24	9
Feb	41	32	14	41	19	38	0	4	-14	38	10	34	19	61	44	48	32	23	7
Feb	42	41	25	31	8	39	20	17	-15	44	3	42	24	57	39	56	35	31	13
Feb	43	41	25	25	3	57	29	31	-6	5	-18	29	18	40	3	46	31	31	17
Feb	44	38	24	24	9	49	27	34	12	18	-19	30	16	29	2	32	20	32	21
Feb	45	38	25	39	19	48	25	44	21	25	3	36	17	48	18	29	18	30	18
Feb	46	28	13	53	33	46	25	46	18	28	11	47	26	60	28	33	14	37	18
Feb	47	20	-3	49	18	44	27	45	16	42	6	56	32	51	30	38	15	25	18
Feb	48	20	-1	45	23	37	19	57	36	48	35	48	24	40	20	42	17	38	19
Feb	49	27	5	45	30	26	3	53	40	41	1	44	16	45	25	27	14	31	19
Feb	50	25	13	35	20	26	6	48	2	9	-5	58	32	37	23	14	4	20	4

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	29	13	52	22	26	4	23	8	39	-7	48	27	45	21	24	3	8	-2
Feb	52	28	17	45	31	33	18	37	11	42	29	30	14	54	29	38	7	21	3
Feb	53	32	18	45	28	29	16	49	25	55	30	33	20	44	18	28	12	37	16
Feb	54	34	20	47	30	16	1	43	9	44	30	33	20	48	13	23	7	34	11
Feb	55	32	12	55	34	9	-10	33	8	44	28	45	20	49	36	26	4	34	14
Feb	56	23	-2	54	31	2	-2	45	23	45	28	45	30	42	25	40	12	31	18
Feb	57	37	4	33	19	10	-1	57	31	36	24	63	32	38	19	53	32	41	26
Feb	58	38	18	43	19	22	-8	44	22	35	12	57	27	32	15	47	27	34	20
Feb	59	38	22	43	32	13	0	24	10	51	21	28	19	26	7	27	16	27	16
Mar	60	38	21	39	25	15	-5	26	7	47	21	23	12	31	10	28	7	17	5
Mar	61	34	17	57	37	32	1	35	10	54	27	45	9	23	4	23	7	17	5
Mar	62	39	16	55	31	29	10	35	11	48	35	48	31	19	0	18	2	20	10
Mar	63	37	-5	33	19	15	3	21	10	47	34	58	39	35	5	20	4	31	11
Mar	64	5	-13	34	19	10	-1	23	5	42	na	65	37	44	10	34	9	37	29
Mar	65	26	-3	39	19	21	-3	19	5	48	27	56	24	34	5	40	17	38	8
Mar	66	31	14	37	11	29	7	21	-2	43	34	26	5	35	-8	38	25	42	24
Mar	67	41	21	37	15	37	15	27	7	35	18	25	1	20	-11	38	21	53	30
Mar	68	44	24	36	20	43	25	22	3	25	12	18	5	57	14	47	21	56	31
Mar	69	51	30	58	20	47	22	4	-9	21	-1	13	2	49	-4	40	26	57	39
Mar	70	53	28	60	41	38	25	4	-15	33	6	8	-4	27	2	47	22	50	34
Mar	71	56	33	58	31	36	19	34	-8	32	16	14	-10	29	6	45	30	49	29
Mar	72	57	35	53	38	34	22	48	18	19	13	26	-2	40	14	32	13	53	34
Mar	73	52	27	55	31	22	-2	52	33	17	-6	37	19	42	23	25	11	36	21
Mar	74	49	32	39	25	33	5	54	31	43	-5	39	17	50	28	30	10	45	15
Mar	75	39	24	38	25	35	23	38	22	29	7	48	28	44	21	36	13	53	28
Mar	76	40	20	37	21	43	20	38	15	34	7	41	15	25	13	53	27	56	26
Mar	77	41	27	48	15	36	20	44	20	45	26	21	6	17	4	45	27	37	21
Mar	78	43	28	64	32	29	18	49	29	56	31	43	8	16	2	45	18	52	23
Mar	79	57	30	63	45	37	20	48	27	57	37	38	20	25	5	40	24	54	38
Mar	80	64	40	58	24	55	28	40	24	45	29	37	19	57	17	26	12	44	27
Mar	81	66	41	35	22	57	37	40	14	53	28	49	21	50	28	20	10	32	25
Mar	82	62	36	49	22	55	27	59	30	42	28	44	25	34	19	11	3	33	21
Mar	83	43	33	49	31	31	22	60	28	29	20	43	17	41	24	29	3	40	19
Mar	84	35	29	45	28	27	20	63	39	45	19	42	23	54	30	29	20	64	27
Mar	85	45	31	60	32	27	14	55	23	45	23	35	20	56	40	30	18	53	33
Mar	86	45	22	72	43	30	14	25	11	39	29	22	17	45	26	31	12	55	28
Mar	87	43	21	70	48	46	24	43	15	35	22	25	16	32	20	44	23	68	34
Mar	88	42	30	63	30	48	20	51	32	35	19	33	22	39	16	57	30	57	46
Mar	89	50	28	64	34	55	34	58	32	33	20	50	16	39	16	52	38	46	28
Mar	90	55	37	70	45	47	30	49	21	38	14	43	24	36	15	45	29	51	29
Apr	91	55	22	69	35	49	30	35	13	45	14	54	20	38	21	42	28	na	24
Apr	92	24	12	53	34	57	31	36	24	47	20	51	30	47	18	38	23	31	20
Apr	93	17	2	48	27	41	30	59	24	54	25	30	20	56	30	45	18	43	16
Apr	94	27	10	50	28	36	27	60	43	52	33	25	16	57	34	38	28	48	24
Apr	95	45	19	50	31	28	15	60	27	61	31	43	12	46	36	47	27	51	32
Apr	96	52	29	62	37	33	15	52	28	55	41	58	32	43	30	58	34	46	32
Apr	97	56	30	61	29	33	18	46	27	62	36	57	24	40	19	66	37	33	26
Apr	98	62	39	45	24	48	21	38	20	57	42	60	27	47	17	73	40	29	20
Apr	99	60	28	46	32	44	33	48	14	47	28	51	26	45	30	63	18	23	18
Apr	100	36	21	41	28	45	31	61	33	53	28	31	23	32	19	39	9	27	15

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	41	18	53	23	41	29	54	32	72	34	44	21	27	11	53	20	25	16
Apr	102	41	25	65	39	37	25	39	21	67	40	45	20	40	11	55	31	38	14
Apr	103	32	20	67	47	55	30	35	26	52	29	59	30	59	21	47	26	44	20
Apr	104	37	16	66	32	63	34	57	22	38	28	69	39	50	18	51	32	40	22
Apr	105	49	21	58	29	36	21	58	31	56	24	56	37	na	11	62	28	33	11
Apr	106	46	23	65	43	44	21	66	41	56	37	60	38	50	9	60	46	33	12
Apr	107	33	18	64	44	63	35	68	34	49	32	65	35	56	30	52	35	26	17
Apr	108	49	19	74	43	58	33	75	45	65	29	38	24	45	27	59	32	22	8
Apr	109	55	54	75	47	55	32	74	39	75	42	35	21	36	18	70	37	39	14
Apr	110	61	43	65	49	63	38	48	29	68	39	55	24	22	12	74	46	60	28
Apr	111	70	42	65	41	48	27	60	20	48	34	65	38	22	16	64	41	64	37
Apr	112	70	38	64	35	33	25	64	42	52	32	63	39	50	16	46	32	66	39
Apr	113	47	28	63	34	39	24	72	42	72	40	59	37	48	27	54	27	70	40
Apr	114	47	34	70	40	47	26	57	41	66	43	46	20	38	28	63	32	49	30
Apr	115	42	29	69	46	53	27	49	38	63	43	37	18	51	28	69	37	38	23
Apr	116	46	25	73	45	62	36	51	38	67	35	35	20	61	34	75	46	60	21
Apr	117	58	34	69	37	68	36	46	30	68	42	42	19	64	41	79	49	56	40
Apr	118	58	38	64	35	63	44	53	28	76	42	31	20	70	40	77	52	47	35
Apr	119	51	29	69	40	64	41	74	39	77	52	25	17	73	49	76	52	36	29
Apr	120	63	36	73	41	55	34	72	53	56	30	34	14	64	45	69	51	34	27
May	121	65	45	44	28	56	35	61	44	50	28	49	20	56	36	63	39	32	29
May	122	56	29	51	31	78	35	57	33	73	41	50	32	52	32	69	37	31	28
May	123	56	24	52	37	74	52	52	32	73	50	32	22	59	32	76	47	34	28
May	124	70	36	54	32	74	35	53	32	62	43	33	25	64	34	83	56	42	32
May	125	70	47	59	36	67	41	57	32	52	37	39	23	57	37	80	57	59	31
May	126	64	33	43	29	58	32	47	30	54	38	46	30	51	28	66	41	63	36
May	127	46	29	54	28	65	38	53	29	50	33	38	23	61	32	73	46	72	44
May	128	48	23	58	36	59	33	63	40	64	35	38	22	60	44	65	37	66	48
May	129	49	26	58	30	73	37	58	41	67	40	48	28	52	40	54	38	59	37
May	130	68	28	38	20	68	53	44	27	na	43	56	30	60	33	44	31	43	33
May	131	65	43	47	26	59	38	33	26	74	42	62	34	66	35	49	27	35	16
May	132	56	38	68	34	47	37	47	27	74	50	59	39	69	46	61	28	26	13
May	133	56	30	63	38	63	35	53	30	74	50	69	37	58	45	68	42	31	21
May	134	37	25	60	31	61	43	68	33	73	50	66	39	65	37	71	49	48	25
May	135	46	29	57	37	59	38	na	42	70	49	65	41	60	41	65	45	54	28
May	136	53	34	53	38	70	42	58	38	58	46	61	41	56	43	52	42	58	40
May	137	65	40	65	35	65	45	71	41	63	42	77	38	62	46	44	36	52	38
May	138	66	43	65	35	64	41	88	51	58	33	66	43	66	46	43	34	61	34
May	139	64	43	37	31	49	37	na	59	54	35	55	32	63	41	58	35	68	43
May	140	51	33	52	31	56	34	85	62	60	44	57	35	61	38	60	32	60	38
May	141	48	32	67	36	58	39	79	56	53	44	71	40	60	34	59	39	46	33
May	142	60	31	67	48	49	34	75	49	57	39	75	48	70	38	56	43	55	37
May	143	70	43	57	39	62	30	81	57	45	28	75	55	79	49	50	42	60	38
May	144	70	43	54	34	59	32	78	38	64	30	57	33	65	48	64	46	72	48
May	145	67	43	62	32	61	41	62	48	68	47	54	32	59	42	69	47	69	45
May	146	66	45	74	47	53	37	63	45	75	44	59	30	60	40	71	46	65	37
May	147	58	44	74	53	55	35	75	48	80	47	64	35	79	35	64	45	74	49
May	148	57	36	68	53	41	22	72	42	82	51	63	42	79	59	52	33	72	58
May	149	63	36	58	41	47	24	55	42	75	53	65	41	67	40	62	30	69	48
May	150	66	45	44	34	72	30	53	39	77	51	63	39	53	40	67	50	66	42

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	63	46	44	35	69	50	62	42	75	46	54	37	43	34	56	37	70	40
June	152	63	43	43	33	69	42	78	50	57	38	63	47	36	26	57	35	84	55
June	153	53	38	50	32	69	44	87	58	56	40	54	35	31	24	79	48	76	56
June	154	54	40	70	35	71	49	82	57	60	40	63	31	48	25	70	47	69	47
June	155	52	42	78	52	62	45	79	55	69	38	73	43	60	32	69	45	69	44
June	156	51	38	79	55	68	44	74	52	73	44	82	57	68	40	77	50	45	40
June	157	52	40	82	63	73	48	70	52	73	48	88	61	65	46	85	51	54	38
June	158	54	37	82	43	68	49	73	50	63	42	78	40	62	40	90	61	60	48
June	159	54	39	72	38	82	55	76	51	67	47	48	37	60	38	85	58	71	48
June	160	51	43	84	59	69	48	80	48	78	49	57	34	65	38	68	43	72	48
June	161	60	40	85	58	50	34	77	58	83	52	73	35	69	40	81	49	86	59
June	162	64	45	75	49	50	31	75	51	84	54	88	54	65	44	87	61	86	63
June	163	66	44	66	46	45	31	75	53	80	52	81	63	66	42	82	52	84	68
June	164	64	34	73	44	66	32	61	45	58	44	76	54	67	52	90	62	85	63
June	165	48	35	81	57	65	49	69	49	67	40	83	48	68	49	87	57	83	63
June	166	48	36	85	57	69	44	69	48	77	49	76	53	81	51	82	54	64	49
June	167	55	34	84	59	75	49	69	44	84	44	69	47	78	55	88	68	77	46
June	168	56	37	74	45	69	51	74	51	73	41	66	49	65	49	79	44	85	64
June	169	65	40	55	33	62	51	58	42	55	42	56	47	59	43	82	44	83	62
June	170	67	49	51	33	77	52	49	36	81	49	69	43	64	43	77	41	79	53
June	171	70	43	64	38	73	48	50	37	78	49	75	47	65	44	80	50	61	48
June	172	81	56	75	42	49	42	54	42	85	43	83	52	51	39	79	49	67	40
June	173	85	59	85	56	49	37	61	43	85	55	79	59	55	43	78	47	75	50
June	174	82	56	87	66	64	39	54	46	76	42	82	44	64	39	76	51	80	59
June	175	65	45	82	60	65	46	62	46	74	47	78	51	78	45	75	55	78	45
June	176	74	47	71	46	77	45	62	45	79	51	69	52	76	45	61	50	70	43
June	177	70	49	76	51	76	55	66	44	83	59	73	41	75	42	64	48	72	42
June	178	70	48	77	50	72	49	61	40	77	45	72	52	67	38	54	48	65	49
June	179	56	40	79	45	66	48	66	44	85	49	68	47	60	37	69	51	77	48
June	180	63	41	79	58	66	42	69	48	85	59	72	45	59	44	79	51	85	64
June	181	56	44	79	48	64	40	71	50	84	46	80	48	63	42	90	56	92	63
July	182	64	43	77	52	76	44	90	47	91	59	76	53	68	42	85	60	86	65
July	183	81	46	81	52	86	54	87	64	96	68	75	53	68	48	84	60	74	48
July	184	82	54	76	54	89	65	85	64	93	62	73	46	65	43	77	51	85	59
July	185	81	54	77	53	79	55	80	58	86	60	71	47	72	48	82	44	80	54
July	186	72	47	76	52	70	46	84	53	74	58	69	44	81	54	85	52	70	55
July	187	72	43	74	57	83	53	92	67	87	58	83	53	84	65	87	66	74	47
July	188	76	46	82	52	82	62	93	71	86	60	82	55	82	63	79	55	74	53
July	189	81	50	85	64	86	65	90	67	80	56	80	60	80	54	65	42	70	50
July	190	80	50	84	67	83	62	89	65	85	48	86	56	67	50	78	42	80	55
July	191	72	45	71	52	80	60	81	58	75	56	88	62	50	42	86	52	85	61
July	192	79	55	81	48	85	59	82	59	77	54	81	60	50	38	85	59	84	59
July	193	72	52	88	65	83	60	79	54	78	49	64	44	67	44	78	50	84	57
July	194	77	52	83	62	83	56	74	53	73	49	77	37	81	47	63	52	85	54
July	195	78	54	78	55	87	61	78	51	71	51	81	53	90	60	55	42	89	63
July	196	79	56	84	61	86	66	69	52	82	53	74	50	87	66	63	39	90	65
July	197	82	55	83	67	81	63	67	49	92	62	71	46	86	58	79	49	85	51
July	198	88	62	82	59	76	58	68	48	85	54	67	41	84	64	81	50	76	44
July	199	88	58	82	55	80	48	72	47	80	50	62	49	91	60	80	51	86	58
July	200	82	61	76	48	84	61	73	47	88	60	76	44	96	70	78	53	83	64

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	76	60	77	54	86	49	80	57	85	49	69	53	92	67	89	60	83	62
July	202	87	61	84	53	75	49	80	60	78	48	71	48	74	52	76	51	77	55
July	203	89	68	85	64	79	49	71	53	91	54	73	48	69	50	88	52	76	54
July	204	91	63	85	49	78	50	73	48	95	70	72	44	83	45	76	50	83	58
July	205	85	61	75	52	88	58	85	58	97	69	69	48	91	62	86	44	89	58
July	206	85	60	79	52	86	60	85	56	92	56	75	44	94	67	97	69	80	55
July	207	84	57	88	64	84	63	73	48	88	56	80	51	94	55	84	57	75	55
July	208	77	51	88	62	92	67	78	43	86	53	83	55	85	60	88	64	81	63
July	209	81	53	87	60	97	71	82	49	76	47	85	58	90	65	86	66	71	60
July	210	83	61	90	64	87	64	76	57	77	49	82	62	89	73	78	54	75	56
July	211	92	60	92	69	82	54	65	46	77	58	69	46	81	57	75	60	83	59
July	212	83	61	94	73	85	57	74	49	89	58	55	47	88	64	84	49	83	60
Aug	213	82	60	87	51	88	62	79	49	82	50	72	47	87	60	87	61	80	58
Aug	214	80	56	90	60	89	65	75	50	78	50	84	48	81	61	88	60	69	55
Aug	215	83	63	78	54	95	71	62	47	88	59	84	54	80	59	81	60	62	54
Aug	216	75	59	73	50	93	73	63	41	88	59	79	58	89	59	71	55	80	52
Aug	217	74	54	89	49	81	60	70	47	93	70	86	52	82	62	78	47	75	54
Aug	218	74	45	90	66	84	63	69	56	95	64	88	61	87	56	79	57	70	50
Aug	219	75	51	82	52	93	66	80	53	98	73	84	47	85	53	80	54	74	39
Aug	220	80	58	75	63	93	69	80	50	92	64	85	57	76	50	79	65	87	54
Aug	221	76	53	71	49	95	70	77	53	80	50	81	59	73	47	69	52	78	64
Aug	222	80	58	76	47	95	61	74	52	89	57	75	52	70	50	80	50	73	52
Aug	223	83	56	80	53	72	49	79	48	90	58	70	53	73	50	72	50	70	46
Aug	224	83	54	77	59	83	55	76	50	92	60	65	53	72	50	61	44	86	47
Aug	225	71	56	80	55	72	46	72	50	88	55	73	49	80	47	74	47	85	57
Aug	226	72	50	81	51	81	50	76	50	85	62	79	49	62	47	80	53	79	57
Aug	227	78	53	81	51	87	52	79	50	82	53	86	53	69	44	86	58	71	50
Aug	228	83	56	88	56	83	66	86	57	78	51	80	60	75	50	78	51	74	52
Aug	229	89	59	82	41	82	61	89	65	78	54	75	44	75	50	76	50	80	58
Aug	230	91	58	74	47	84	60	87	54	69	54	71	51	81	60	81	57	80	56
Aug	231	91	66	82	48	87	60	91	65	70	50	59	38	78	55	85	59	82	57
Aug	232	70	46	88	63	89	64	92	71	na	51	68	39	65	44	83	61	84	62
Aug	233	60	40	83	65	92	67	86	50	92	53	74	45	71	40	76	57	86	62
Aug	234	75	44	86	59	89	65	87	57	95	52	77	53	80	51	78	57	75	58
Aug	235	84	50	79	58	83	56	88	66	96	65	87	53	84	60	89	63	80	57
Aug	236	82	53	75	55	84	46	90	63	85	58	77	47	83	55	88	61	89	62
Aug	237	83	57	67	53	79	47	85	66	87	59	71	49	74	47	81	60	90	53
Aug	238	85	61	64	49	84	62	80	50	84	53	61	48	77	43	88	56	88	65
Aug	239	79	49	51	44	82	51	78	51	71	46	73	41	79	42	83	62	80	65
Aug	240	83	52	49	40	85	63	88	52	76	50	70	48	76	53	74	63	81	65
Aug	241	87	56	55	42	89	54	89	56	74	50	76	48	83	60	77	51	78	53
Aug	242	90	60	67	37	86	62	90	59	70	38	84	49	78	60	83	60	86	64
Aug	243	89	57	74	52	85	49	96	63	68	42	88	58	71	49	78	52	90	66
Sept	244	80	53	71	44	85	50	85	66	79	39	86	57	68	45	60	43	85	55
Sept	245	91	62	71	44	90	55	88	57	82	42	85	61	62	45	53	40	69	43
Sept	246	90	66	81	57	85	56	89	59	68	42	85	60	59	46	71	39	49	39
Sept	247	88	66	78	60	86	56	92	64	59	43	87	62	56	43	83	48	57	39
Sept	248	92	60	73	49	86	63	86	63	60	44	88	61	67	41	86	59	67	45
Sept	249	89	57	67	44	74	52	73	46	54	43	86	57	66	37	77	50	73	46
Sept	250	75	47	51	43	90	62	65	40	54	41	76	59	71	47	85	56	83	53

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	76	47	55	44	82	54	56	38	69	44	71	44	75	50	85	63	80	53
Sept	252	86	38	51	41	74	57	61	37	80	48	69	48	60	45	76	62	77	58
Sept	253	64	39	68	38	66	47	63	43	70	52	48	36	78	46	87	58	80	52
Sept	254	64	47	77	45	61	44	76	45	60	36	40	34	69	38	90	67	73	45
Sept	255	61	38	80	54	72	43	85	55	40	24	49	31	51	34	85	59	79	45
Sept	256	65	38	80	53	72	52	79	55	60	31	54	34	56	42	80	60	74	45
Sept	257	69	46	85	55	66	33	83	55	67	36	57	37	57	39	71	42	78	48
Sept	258	70	46	78	65	61	34	91	59	78	43	46	35	59	34	62	40	77	42
Sept	259	71	46	80	60	78	40	92	65	83	49	49	34	71	39	76	44	81	61
Sept	260	50	38	71	47	75	35	82	51	60	39	70	42	72	43	75	55	71	44
Sept	261	45	33	51	35	79	47	79	56	63	34	68	42	67	50	75	49	63	38
Sept	262	47	29	54	34	65	44	85	57	82	45	71	51	67	50	68	50	71	52
Sept	263	59	33	65	34	61	43	73	51	70	49	61	45	58	36	57	42	62	35
Sept	264	73	43	62	45	63	45	58	45	66	37	62	42	41	30	60	42	67	30
Sept	265	67	55	51	32	75	38	75	48	70	46	64	40	50	32	57	39	82	48
Sept	266	67	32	50	30	80	49	79	53	78	43	67	43	43	30	67	37	70	54
Sept	267	53	33	68	43	71	37	80	56	80	53	70	48	57	32	69	47	59	44
Sept	268	59	33	73	51	63	41	70	42	79	53	71	47	72	39	78	45	71	32
Sept	269	58	41	79	50	75	46	67	50	62	41	70	47	56	32	78	48	68	42
Sept	270	48	23	67	41	66	50	79	59	66	45	57	37	40	20	85	57	77	53
Sept	271	44	20	52	32	62	46	70	56	70	34	54	33	72	25	84	55	83	53
Sept	272	58	31	63	33	55	34	75	43	78	46	46	32	69	na	76	42	71	43
Sept	273	60	37	79	50	62	35	71	47	69	52	42	30	74	45	75	52	82	45
Oct	274	59	44	80	54	65	49	60	40	59	45	38	25	77	54	72	54	83	61
Oct	275	69	36	68	55	72	44	65	41	67	40	35	22	66	50	64	37	74	50
Oct	276	76	50	59	40	63	48	69	44	57	40	35	24	58	39	71	32	60	38
Oct	277	75	49	50	39	77	52	79	50	69	42	63	23	45	37	63	45	61	40
Oct	278	69	47	42	24	81	59	74	57	78	52	64	42	44	34	46	32	61	38
Oct	279	67	40	31	23	75	44	69	43	60	34	65	35	54	32	37	18	68	40
Oct	280	68	39	30	22	69	36	46	28	46	31	47	36	55	36	43	16	70	51
Oct	281	52	29	47	26	75	46	54	29	34	25	68	42	65	36	67	28	73	43
Oct	282	65	39	46	32	65	40	58	42	60	30	64	47	70	43	70	41	77	51
Oct	283	66	47	36	22	78	50	58	27	55	32	69	36	68	49	81	48	80	50
Oct	284	68	46	28	19	69	35	53	27	51	27	68	48	71	42	64	49	77	57
Oct	285	67	45	37	25	60	33	62	32	63	34	73	48	70	42	69	34	67	49
Oct	286	70	45	41	30	74	46	65	39	44	33	72	51	57	40	62	42	70	45
Oct	287	67	43	57	30	68	49	70	39	57	25	71	48	61	41	55	30	74	49
Oct	288	75	46	45	23	56	45	76	39	72	41	77	56	63	31	36	23	72	50
Oct	289	73	51	33	23	70	44	65	30	58	33	64	35	35	21	50	30	62	43
Oct	290	73	51	43	26	62	43	32	19	62	34	74	52	40	24	49	36	72	50
Oct	291	70	30	45	26	66	38	51	19	51	33	66	44	35	25	54	33	71	46
Oct	292	57	31	53	28	76	48	63	40	36	18	67	38	50	31	64	39	74	52
Oct	293	57	34	62	27	76	59	68	37	26	16	72	52	43	27	66	39	68	42
Oct	294	40	23	61	40	75	45	58	40	31	10	56	33	28	22	67	45	59	33
Oct	295	44	29	63	35	46	26	67	34	49	25	51	32	41	23	64	46	34	30
Oct	296	40	23	57	32	38	25	60	33	42	25	66	37	53	26	59	41	45	21
Oct	297	46	21	43	27	40	29	74	41	55	25	60	28	61	39	73	45	47	34
Oct	298	45	23	50	33	42	29	72	53	45	29	63	44	39	29	71	47	42	29
Oct	299	60	32	40	27	50	28	58	43	63	32	64	45	31	22	61	45	47	22
Oct	300	68	40	43	29	56	36	63	32	56	37	68	37	54	26	61	35	50	37

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	64	41	41	29	64	38	50	33	60	34	62	38	60	38	47	30	64	42
Oct	302	57	30	51	29	67	49	53	28	53	32	70	53	60	36	61	27	70	44
Oct	303	57	51	40	24	56	38	45	39	37	22	72	58	42	15	70	45	54	41
Oct	304	56	42	46	26	49	37	53	37	61	29	67	37	21	13	56	46	58	39
Nov	305	50	32	46	29	60	32	58	34	56	37	43	26	14	-1	53	39	65	41
Nov	306	33	23	37	19	71	46	55	34	54	30	40	22	29	-3	50	30	62	36
Nov	307	38	24	41	12	47	26	56	36	65	38	39	13	34	9	40	25	50	29
Nov	308	64	37	57	23	38	25	55	36	60	39	56	33	33	6	58	24	50	26
Nov	309	65	48	51	34	33	20	43	28	62	34	57	37	30	20	67	44	43	30
Nov	310	63	30	49	33	24	16	32	24	67	38	40	28	32	24	55	33	42	29
Nov	311	33	16	41	28	23	18	34	23	62	40	40	29	53	21	42	23	41	33
Nov	312	19	8	33	21	36	17	33	20	58	43	29	10	45	35	56	32	52	27
Nov	313	29	7	24	19	31	12	37	10	57	31	10	-1	50	29	44	26	63	39
Nov	314	44	20	32	16	29	12	25	19	59	39	25	4	51	30	37	22	55	39
Nov	315	50	31	31	19	25	11	29	22	49	27	24	20	53	39	55	27	59	40
Nov	316	40	25	40	19	25	9	33	19	51	29	29	18	48	31	59	40	65	40
Nov	317	36	19	50	23	40	18	31	17	47	32	45	16	35	27	55	34	62	47
Nov	318	48	20	54	32	36	26	43	30	41	26	47	34	33	24	52	40	69	46
Nov	319	58	35	46	26	28	18	53	28	46	32	42	24	25	15	54	30	63	49
Nov	320	58	31	28	14	28	8	53	33	40	23	44	20	16	7	57	33	65	40
Nov	321	48	20	49	20	35	13	38	25	49	27	46	32	39	5	35	28	62	39
Nov	322	45	22	58	33	35	20	38	24	60	42	47	20	50	28	30	25	40	19
Nov	323	46	31	53	25	29	16	25	17	56	29	29	19	62	35	28	23	26	14
Nov	324	35	18	54	18	18	12	33	4	34	23	48	16	56	41	33	20	21	8
Nov	325	19	10	30	4	15	4	33	13	56	20	49	33	48	11	45	30	24	12
Nov	326	26	6	50	23	23	1	33	20	53	40	42	-3	35	9	36	18	42	15
Nov	327	54	15	55	42	25	3	41	20	52	31	7	-9	28	18	23	12	39	29
Nov	328	57	37	43	17	35	7	36	26	37	29	53	0	50	19	28	9	30	28
Nov	329	50	29	41	23	38	30	41	27	54	33	49	36	42	28	24	13	37	25
Nov	330	45	30	45	31	40	30	35	25	54	34	59	37	52	30	20	7	45	33
Nov	331	54	29	54	28	34	25	35	15	61	37	60	37	45	36	8	-2	47	23
Nov	332	57	36	50	33	43	29	25	15	58	32	50	33	54	35	19	-2	44	30
Nov	333	55	43	52	32	46	27	45	9	40	28	39	27	48	29	28	6	40	28
Nov	334	52	31	47	25	51	36	37	20	51	28	43	21	55	na	33	16	52	28
Dec	335	34	23	41	16	49	32	38	13	45	23	44	20	54	35	47	21	52	30
Dec	336	32	14	41	33	42	17	35	26	50	35	28	11	52	40	46	20	31	23
Dec	337	40	22	55	32	37	13	51	24	47	20	39	14	42	na	42	30	28	24
Dec	338	54	31	60	41	32	20	54	40	37	18	36	-6	35	26	35	26	33	18
Dec	339	51	39	48	37	42	16	45	25	54	25	7	-10	41	24	40	25	30	19
Dec	340	41	27	52	36	35	19	27	9	47	21	18	-7	34	19	48	32	35	24
Dec	341	41	24	52	32	23	14	23	12	27	10	30	4	20	11	48	31	35	22
Dec	342	28	5	42	30	21	4	28	15	28	11	33	20	22	9	41	32	27	19
Dec	343	18	2	37	23	27	10	24	11	49	19	35	24	25	4	40	30	40	15
Dec	344	21	6	40	23	28	15	29	2	43	14	51	30	26	20	31	23	40	23
Dec	345	26	5	50	31	24	11	38	23	14	-11	49	33	39	24	40	19	28	18
Dec	346	23	9	32	11	29	16	35	22	14	-1	41	25	34	24	36	22	41	20
Dec	347	16	9	38	10	44	21	45	20	17	5	35	29	28	-1	32	20	31	18
Dec	348	14	-5	45	31	45	21	33	20	32	8	29	20	3	-11	30	12	40	11
Dec	349	11	-10	49	32	24	16	31	10	43	23	42	18	5	-15	52	20	38	22
Dec	350	18	8	45	-4	27	15	23	3	39	25	41	33	25	-5	60	39	23	11

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1945	1945	1946	1946	1947	1947	1948	1948	1949	1949	1950	1950	1951	1951	1952	1952	1953	1953
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	15	-3	12	-4	50	22	23	12	33	18	42	31	23	2	46	31	44	11
Dec	352	4	-5	24	6	50	31	26	6	41	21	40	30	33	-3	33	22	49	31
Dec	353	24	-1	29	14	45	31	21	12	33	-4	40	25	29	-16	39	24	45	31
Dec	354	40	23	33	25	46	20	29	13	19	-7	43	34	0	-20	32	17	42	34
Dec	355	37	12	46	24	47	27	34	23	17	5	48	35	17	-1	43	15	34	7
Dec	356	37	4	46	33	39	26	24	14	24	9	50	37	28	10	40	24	17	-3
Dec	357	46	32	44	17	40	25	24	8	28	12	50	36	20	6	32	19	40	11
Dec	358	40	24	40	28	44	25	23	5	38	8	50	35	24	6	25	17	39	30
Dec	359	35	27	46	32	48	29	20	11	23	-3	51	22	22	10	32	8	37	27
Dec	360	40	20	52	29	52	41	31	7	25	12	24	10	26	0	33	12	39	25
Dec	361	40	25	47	-1	55	43	47	11	36	14	40	na	42	12	36	21	29	18
Dec	362	45	27	0	-13	54	31	46	10	49	30	33	27	41	32	40	19	41	15
Dec	363	45	35	26	-13	45	21	32	11	53	32	28	23	40	22	40	26	36	17
Dec	364	37	27	15	-1	23	2	34	5	45	23	44	24	35	-2	32	21	31	20
Dec	365	36	22	32	0	26	-1	30	16	44	20	40	11	0	-12	42	23	43	29
29 Feb	366							46	11							39	28		

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	42	35	39	24	46	30	45	26	34	15	45	5	16	3	22	10	45	29
Jan	2	37	21	47	25	40	28	43	33	39	20	6	-13	12	0	24	15	48	35
Jan	3	45	27	45	16	49	26	36	13	43	25	-8	-20	10	1	40	17	60	40
Jan	4	36	17	38	21	52	35	22	10	41	23	8	-18	18	-2	40	23	45	15
Jan	5	45	27	33	13	47	33	27	13	47	31	37	6	28	2	49	31	31	9
Jan	6	56	40	33	13	43	25	28	9	41	22	42	33	38	25	52	35	41	23
Jan	7	57	39	32	10	53	25	43	21	50	20	42	31	33	22	39	24	24	19
Jan	8	45	18	23	17	52	37	32	-8	62	38	42	27	41	18	54	33	20	-14
Jan	9	23	5	23	15	48	23	1	-12	45	34	55	30	39	28	51	30	-11	-17
Jan	10	30	13	30	8	50	34	35	-1	54	26	55	36	44	16	45	30	19	-15
Jan	11	25	11	21	11	51	34	36	5	42	34	50	37	45	38	51	34	31	13
Jan	12	20	3	20	-5	46	30	35	-1	41	23	60	31	45	27	48	38	38	17
Jan	13	25	13	44	18	53	33	32	2	36	26	50	29	40	19	38	29	33	13
Jan	14	35	15	36	17	43	13	21	0	36	12	31	16	30	12	36	24	17	-2
Jan	15	34	-8	30	16	15	-2	1	-10	41	24	17	1	32	21	46	32	13	-4
Jan	16	-2	-18	31	14	12	-3	10	-15	41	35	29	10	23	17	50	37	22	-5
Jan	17	48	-2	26	18	33	6	18	6	55	28	30	21	18	0	45	27	12	-10
Jan	18	43	20	29	11	39	21	38	15	42	20	40	22	8	-3	42	17	-1	-12
Jan	19	35	-5	45	13	31	22	36	20	25	19	30	10	16	-3	30	15	0	-18
Jan	20	2	-19	33	19	27	23	40	16	35	16	11	-7	20	7	29	5	2	-13
Jan	21	28	-6	20	5	31	16	36	3	39	17	8	-10	14	1	30	9	-5	-16
Jan	22	47	21	13	10	35	17	14	-9	31	19	14	3	22	-4	30	23	21	-8
Jan	23	42	-2	29	10	40	22	15	-9	36	15	44	10	33	16	40	23	32	15
Jan	24	14	-10	25	17	35	21	-6	-13	39	31	46	36	38	28	24	1	38	28
Jan	25	22	7	30	21	29	10	0	-19	35	28	44	29	33	19	29	0	46	28
Jan	26	29	9	29	13	23	10	12	-8	36	24	34	22	38	17	0	-5	42	31
Jan	27	37	18	29	14	42	18	28	-2	33	15	41	25	39	29	28	-6	42	33
Jan	28	50	28	34	8	25	9	20	-1	39	20	45	22	35	27	25	7	46	34
Jan	29	41	20	36	26	15	-1	17	-10	36	28	31	15	59	28	16	2	46	40
Jan	30	43	18	46	26	11	-2	22	9	37	16	22	3	50	35	50	8	48	39
Jan	31	49	34	40	29	4	-6	29	6	30	18	21	4	40	30	53	35	51	42
Feb	32	42	33	35	26	17	-6	22	-1	26	19	25	7	35	24	42	29	52	36
Feb	33	49	36	29	21	32	3	29	-2	34	13	37	9	41	26	35	18	55	43
Feb	34	55	40	23	11	34	18	22	9	51	30	27	16	35	30	39	29	64	47
Feb	35	54	38	15	5	46	20	33	11	46	27	27	11	40	23	32	22	52	7
Feb	36	46	31	28	10	44	31	38	13	37	15	17	7	41	26	38	19	10	0
Feb	37	43	32	25	9	40	23	42	25	20	4	44	11	34	27	45	18	33	-3
Feb	38	55	30	35	14	31	20	47	20	16	5	35	-2	52	28	42	21	37	17
Feb	39	60	46	44	32	32	18	47	32	11	1	17	-2	44	27	46	21	40	29
Feb	40	53	40	36	3	34	19	42	28	20	3	15	3	30	8	45	29	48	31
Feb	41	41	17	11	-6	40	22	39	20	32	13	29	1	27	7	59	33	57	32
Feb	42	18	7	13	6	32	19	46	26	25	4	41	20	25	15	60	39	52	33
Feb	43	51	14	47	5	43	20	42	21	29	-4	37	25	36	15	50	31	58	43
Feb	44	53	39	40	na	36	11	46	33	29	5	29	13	39	28	36	23	49	32
Feb	45	52	38	45	26	20	8	52	31	9	-1	38	14	32	19	42	26	49	33
Feb	46	40	25	40	30	28	2	42	17	20	-7	42	23	39	19	51	24	43	24
Feb	47	49	25	50	25	14	-14	47	19	29	13	38	18	32	20	46	16	27	19
Feb	48	54	27	43	29	24	1	41	24	39	25	20	5	22	10	26	9	20	13
Feb	49	53	36	30	-4	23	6	35	17	42	27	8	1	14	0	27	12	29	12
Feb	50	37	19	0	-5	28	7	25	5	57	32	20	0	19	-1	36	17	31	20

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	44	21	13	-3	40	16	11	0	62	40	32	6	20	5	47	29	25	6
Feb	52	46	28	21	12	48	24	4	-10	54	34	40	18	22	6	58	34	14	3
Feb	53	45	27	25	6	56	36	3	-14	63	36	32	24	18	0	45	25	30	10
Feb	54	49	29	12	-11	52	40	52	-4	58	38	38	15	17	-5	26	10	17	-8
Feb	55	55	33	28	-15	47	21	56	38	58	30	38	23	20	-5	40	16	6	-14
Feb	56	43	21	35	7	33	18	47	31	55	42	36	23	12	-2	44	28	3	-5
Feb	57	45	21	9	-6	30	17	52	27	43	23	34	24	4	-11	30	20	-3	-12
Feb	58	24	15	38	-4	27	17	48	34	24	6	31	21	3	-9	41	15	2	-10
Feb	59	37	15	34	21	41	20	38	26	14	5	40	22	5	-12	32	23	15	-15
Mar	60	28	-3	32	22	46	29	34	21	17	11	54	33	17	-4	48	20	33	5
Mar	61	5	-8	47	20	40	21	50	18	29	13	42	20	7	-7	41	24	36	26
Mar	62	15	-7	31	15	34	24	42	26	24	16	37	18	1	-10	25	18	34	6
Mar	63	25	0	24	-7	48	16	31	18	26	10	26	19	5	-13	34	20	18	9
Mar	64	47	12	15	-8	42	24	20	9	34	13	25	17	26	-10	29	13	40	6
Mar	65	48	33	23	5	39	22	15	-2	44	25	28	16	30	10	38	15	44	31
Mar	66	40	22	40	20	23	11	37	-1	38	25	36	25	41	26	35	23	39	28
Mar	67	54	22	56	35	24	9	39	19	35	20	40	26	39	26	38	24	40	22
Mar	68	57	36	53	34	40	17	55	20	25	18	34	24	34	30	55	23	41	29
Mar	69	59	40	48	26	30	20	52	34	22	11	29	18	43	25	47	29	29	18
Mar	70	48	23	42	22	23	-1	37	19	34	8	29	20	34	15	44	26	20	10
Mar	71	24	7	51	19	8	-10	50	27	28	12	47	20	34	16	36	28	13	8
Mar	72	15	3	45	24	28	-4	39	13	21	11	42	26	25	8	48	21	19	2
Mar	73	33	3	32	20	24	11	25	7	21	8	27	20	36	8	50	35	30	11
Mar	74	35	16	22	9	23	6	38	11	25	6	24	16	29	19	50	28	36	15
Mar	75	53	27	35	5	31	11	43	21	20	12	36	19	32	16	64	37	40	20
Mar	76	58	35	28	14	41	24	35	25	25	7	54	33	26	17	52	37	48	23
Mar	77	47	21	42	16	37	30	30	20	30	10	49	33	31	13	42	32	45	33
Mar	78	28	20	34	11	46	25	49	21	34	22	46	25	34	30	48	25	48	30
Mar	79	34	24	12	2	56	27	60	29	47	20	37	14	45	29	54	29	47	27
Mar	80	39	23	22	-8	48	35	58	38	54	32	58	20	51	34	47	29	45	28
Mar	81	33	19	43	16	43	25	53	21	39	31	57	42	60	34	42	30	43	19
Mar	82	39	21	26	4	59	34	28	20	42	29	46	29	62	33	60	25	49	31
Mar	83	34	21	6	-6	57	34	36	18	43	28	42	27	54	32	65	45	45	27
Mar	84	22	14	-2	-17	68	38	46	18	40	32	33	25	50	23	60	39	53	32
Mar	85	40	9	23	-3	68	45	40	27	35	26	45	18	55	41	40	28	61	32
Mar	86	35	17	40	7	70	46	37	21	29	24	50	29	67	39	38	24	66	41
Mar	87	25	-1	50	24	62	15	37	18	39	23	47	31	64	38	26	18	58	21
Mar	88	20	3	57	30	16	8	47	21	47	29	51	35	64	46	47	17	33	17
Mar	89	18	3	51	36	40	9	47	33	57	31	50	27	55	29	42	30	28	18
Mar	90	33	7	43	28	56	31	46	30	52	37	46	29	52	32	42	25	26	16
Apr	91	39	17	59	30	62	38	48	27	45	28	56	30	50	31	48	24	29	12
Apr	92	31	13	64	42	53	27	40	20	60	33	53	30	34	28	46	40	47	13
Apr	93	56	12	57	29	28	20	34	22	53	34	56	26	43	27	55	34	45	31
Apr	94	60	40	30	22	33	21	23	16	40	30	63	41	45	34	55	27	54	26
Apr	95	61	45	27	16	49	29	36	21	31	25	64	31	48	32	37	20	54	33
Apr	96	60	32	41	15	43	28	31	20	39	24	65	32	65	34	30	15	51	27
Apr	97	37	27	53	20	29	15	36	15	45	26	35	26	62	38	39	13	45	25
Apr	98	57	29	55	34	38	13	35	22	41	32	30	20	47	31	40	25	32	19
Apr	99	57	35	61	30	36	21	37	22	40	32	32	15	52	29	43	27	39	25
Apr	100	45	27	64	35	48	22	36	18	38	31	29	16	64	31	39	25	40	30

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	57	24	60	29	56	31	19	9	42	30	28	14	72	46	41	22	33	26
Apr	102	66	39	44	27	45	24	31	2	47	29	45	12	59	34	58	28	41	21
Apr	103	69	37	55	26	52	24	35	12	62	31	63	29	65	44	53	37	58	28
Apr	104	58	38	62	38	61	37	58	19	68	40	57	39	60	35	42	17	58	38
Apr	105	39	19	56	30	54	32	52	37	64	34	60	35	66	35	30	11	72	38
Apr	106	59	29	56	23	49	26	48	33	71	45	47	28	53	27	38	18	61	40
Apr	107	57	41	63	41	42	19	44	25	65	36	32	20	46	27	57	19	66	34
Apr	108	43	32	65	39	44	20	54	33	57	39	29	24	44	25	72	36	70	39
Apr	109	34	28	57	30	52	25	43	32	51	32	26	22	62	34	71	46	71	45
Apr	110	44	30	50	32	57	27	50	30	48	33	35	20	68	40	59	31	77	53
Apr	111	39	21	62	33	69	37	65	37	43	30	49	17	63	34	51	28	60	38
Apr	112	54	27	64	42	63	40	64	44	36	30	62	35	61	34	54	35	62	41
Apr	113	64	38	58	33	45	20	52	33	31	18	56	30	57	38	48	35	74	44
Apr	114	57	28	57	29	42	19	52	33	31	19	53	25	55	32	36	22	79	47
Apr	115	64	43	56	41	53	25	45	31	32	20	43	21	48	30	47	20	73	57
Apr	116	59	41	73	38	52	28	51	30	38	19	56	35	45	27	43	20	68	32
Apr	117	73	43	69	30	52	32	50	28	39	29	51	37	41	26	35	23	52	32
Apr	118	66	22	51	27	45	19	65	33	30	15	55	37	41	23	51	21	70	42
Apr	119	32	16	74	34	29	18	71	38	43	15	65	43	38	26	52	30	52	32
Apr	120	31	20	73	44	34	17	69	45	54	32	75	46	33	24	52	35	50	30
May	121	26	18	78	48	39	26	73	47	62	33	73	57	50	20	55	32	61	30
May	122	23	13	74	53	46	31	74	46	66	37	74	53	59	36	55	37	63	38
May	123	37	9	54	33	52	30	71	47	65	36	65	40	58	36	48	32	63	40
May	124	49	30	54	37	45	21	50	41	63	43	50	32	54	33	36	30	67	49
May	125	62	33	72	35	44	27	57	35	64	38	50	34	48	29	43	30	64	45
May	126	58	40	68	47	52	34	69	40	74	42	50	34	42	30	55	31	64	34
May	127	51	34	56	34	49	32	75	50	64	42	55	28	46	25	49	31	68	55
May	128	55	30	67	41	58	39	67	39	64	37	62	36	62	29	56	31	66	38
May	129	56	40	55	35	75	49	41	33	69	44	68	37	60	49	73	38	77	51
May	130	58	40	65	34	71	38	62	33	75	50	63	32	59	34	81	54	70	45
May	131	58	42	67	46	63	42	66	39	78	51	53	33	64	36	76	44	77	57
May	132	69	42	73	46	64	43	52	43	74	56	59	31	72	36	59	41	70	47
May	133	67	55	79	53	59	33	51	37	68	43	52	33	82	48	47	38	66	47
May	134	66	40	78	54	40	30	46	35	59	36	56	30	77	61	56	35	61	41
May	135	66	40	77	54	55	32	41	34	55	43	69	36	63	37	55	38	58	37
May	136	67	43	66	42	54	39	39	31	65	43	68	39	68	44	44	33	61	38
May	137	63	43	55	38	66	47	39	30	65	46	67	43	62	34	42	29	57	38
May	138	63	46	63	37	71	43	53	30	65	37	62	48	61	46	47	34	56	43
May	139	75	43	69	42	75	53	62	40	70	39	58	37	57	38	58	41	64	43
May	140	82	59	76	45	76	54	56	41	79	49	45	31	47	34	68	38	61	49
May	141	80	57	80	53	76	52	45	31	79	57	43	30	67	35	64	48	58	40
May	142	69	46	59	45	75	50	46	31	75	45	51	31	76	45	63	48	44	40
May	143	54	38	59	35	68	51	47	32	78	52	68	34	74	41	73	49	57	40
May	144	60	36	56	47	74	47	53	37	68	52	75	48	74	55	71	54	58	35
May	145	68	46	49	39	76	54	57	42	76	48	71	42	67	48	63	46	51	41
May	146	61	44	41	35	74	55	64	41	74	54	63	42	54	44	73	42	47	37
May	147	47	34	42	32	71	47	70	45	69	47	65	40	64	42	75	54	49	40
May	148	45	35	48	33	62	52	71	47	80	49	59	39	68	42	78	51	62	43
May	149	61	30	65	37	57	51	69	43	81	59	52	40	61	40	70	55	52	43
May	150	68	47	80	50	56	45	68	50	74	54	50	42	67	35	74	46	63	45

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	59	34	77	52	54	46	60	42	61	48	56	40	76	50	75	48	61	39
June	152	64	45	55	43	63	33	69	39	69	46	62	36	79	49	71	48	64	46
June	153	50	29	62	45	86	48	77	40	70	52	74	40	72	48	68	41	57	45
June	154	56	30	57	41	79	62	81	50	68	50	76	49	73	55	74	42	71	44
June	155	78	45	54	40	83	59	77	55	64	50	76	52	79	53	74	44	75	43
June	156	82	61	56	40	81	58	81	52	65	44	79	49	75	49	76	44	59	33
June	157	68	42	59	40	79	55	77	53	72	49	90	61	65	43	76	44	61	40
June	158	55	38	67	41	72	51	55	43	79	58	86	55	71	43	78	50	52	38
June	159	70	39	57	34	77	40	76	46	72	51	74	48	83	53	81	53	57	38
June	160	67	43	39	33	82	54	75	47	75	50	86	53	66	51	85	56	67	40
June	161	72	53	44	37	84	55	63	46	60	45	83	50	57	46	82	51	76	48
June	162	65	44	51	40	83	63	65	44	61	44	75	44	57	43	76	52	71	51
June	163	77	43	50	42	91	64	69	48	64	45	81	50	59	49	79	52	69	49
June	164	81	58	67	44	89	66	57	45	51	42	92	58	56	42	71	49	75	57
June	165	na	50	78	50	82	56	58	39	59	43	88	68	74	45	62	47	79	54
June	166	65	43	70	52	74	52	56	38	72	45	88	61	71	54	67	38	62	47
June	167	64	50	70	53	76	51	52	41	61	47	78	57	58	47	75	48	61	46
June	168	67	40	63	51	73	50	49	39	65	43	79	58	71	45	80	49	61	49
June	169	70	49	67	44	74	47	70	42	65	45	78	54	70	50	87	52	75	48
June	170	74	57	76	43	78	52	75	46	62	49	74	55	71	52	76	50	72	51
June	171	69	45	76	48	82	51	72	55	57	41	84	63	75	57	83	51	69	51
June	172	73	49	77	54	84	62	61	43	64	34	79	59	79	53	80	58	70	48
June	173	84	52	74	49	77	58	49	37	65	43	70	49	67	37	70	50	75	48
June	174	95	68	73	53	71	44	61	40	64	49	82	55	69	39	76	42	75	46
June	175	87	61	65	53	79	51	78	45	63	48	81	53	64	44	76	49	73	55
June	176	75	54	68	51	82	57	69	48	61	29	75	56	79	46	84	55	71	46
June	177	65	55	73	42	69	49	65	45	71	38	85	55	89	58	90	55	82	56
June	178	80	59	78	53	74	46	60	47	86	53	69	50	86	63	89	66	91	63
June	179	80	55	77	51	78	51	72	46	85	59	59	41	82	50	95	65	81	61
June	180	70	45	87	61	89	58	78	47	83	59	48	42	80	50	92	64	77	54
June	181	77	44	82	51	86	62	81	59	79	59	53	40	75	55	83	66	72	57
July	182	77	55	79	48	82	51	88	52	76	44	74	38	70	51	77	52	79	55
July	183	75	49	82	45	70	46	84	52	76	52	84	52	90	59	85	46	81	59
July	184	83	50	79	52	69	52	83	55	72	52	83	56	81	54	96	60	76	56
July	185	90	65	85	56	69	53	68	46	61	49	71	50	71	47	94	58	69	49
July	186	91	63	86	67	74	45	82	50	65	41	76	42	69	51	81	60	79	57
July	187	87	67	90	60	74	47	92	56	63	40	87	62	70	45	80	53	80	66
July	188	85	55	80	47	82	55	83	56	70	42	76	60	74	51	77	60	77	52
July	189	93	66	80	48	73	47	78	50	68	53	64	43	76	53	79	54	77	44
July	190	97	74	81	55	66	48	87	61	69	47	78	44	80	56	80	59	85	55
July	191	92	64	79	57	74	46	90	63	70	50	73	46	90	55	80	54	80	54
July	192	90	70	88	64	86	55	90	69	77	47	74	47	87	63	66	52	80	54
July	193	99	74	80	59	84	62	85	63	83	56	79	52	77	60	62	47	76	56
July	194	86	67	79	58	79	59	82	59	78	53	84	60	77	53	71	49	67	56
July	195	81	57	83	52	85	55	81	55	67	50	83	59	75	56	79	51	65	51
July	196	92	65	82	56	88	61	85	53	61	41	87	56	83	58	82	53	69	50
July	197	85	57	84	57	80	58	87	64	70	48	80	55	86	62	90	60	69	48
July	198	84	64	87	63	76	53	92	67	79	54	78	56	87	60	92	64	68	51
July	199	85	64	88	63	70	48	77	53	79	52	76	57	79	54	83	56	87	54
July	200	78	62	85	63	70	48	70	50	69	51	83	53	83	55	77	55	76	53

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	80	58	86	65	71	47	74	55	72	50	80	59	92	56	71	52	81	46
July	202	91	66	88	64	79	49	76	51	76	49	87	59	96	70	69	51	80	56
July	203	83	51	86	59	76	49	84	57	80	52	86	58	95	72	74	45	80	53
July	204	82	49	75	56	82	54	87	63	85	61	85	56	90	63	83	48	73	54
July	205	88	62	84	56	86	59	75	53	72	51	94	64	95	69	89	56	75	48
July	206	92	60	77	63	90	53	79	51	79	50	87	66	88	64	84	57	72	48
July	207	91	na	80	61	90	61	84	57	75	55	90	59	85	59	79	57	70	51
July	208	82	61	79	58	88	61	87	58	69	52	83	67	86	55	79	59	65	52
July	209	88	59	78	63	83	53	80	60	71	49	88	69	92	65	85	59	64	50
July	210	87	51	86	58	82	55	86	60	72	50	82	50	91	66	83	68	64	51
July	211	75	57	88	58	86	59	83	56	66	53	85	50	80	62	77	45	73	46
July	212	79	45	91	63	72	57	88	65	75	53	82	63	84	53	85	55	65	50
Aug	213	80	58	90	64	71	46	93	63	87	56	83	64	92	61	83	56	71	48
Aug	214	83	54	88	63	73	52	78	58	88	57	86	67	88	69	90	61	75	56
Aug	215	81	64	93	64	73	53	70	48	89	53	88	60	83	60	92	58	85	53
Aug	216	80	58	84	52	85	58	70	54	88	62	86	59	83	56	92	68	88	64
Aug	217	69	54	85	56	82	52	88	59	80	50	83	66	91	61	91	63	80	60
Aug	218	67	58	77	58	80	60	88	69	86	56	77	53	83	60	93	63	76	52
Aug	219	73	50	75	57	75	52	85	57	83	62	84	60	74	54	90	60	84	52
Aug	220	77	48	84	57	75	50	79	57	90	57	89	61	70	49	84	61	90	67
Aug	221	80	50	84	59	72	50	84	47	95	71	86	57	58	48	78	56	85	64
Aug	222	80	61	76	51	73	48	93	57	86	63	84	48	69	40	72	49	81	59
Aug	223	77	58	83	58	72	52	91	57	86	64	88	62	78	46	73	42	70	53
Aug	224	80	50	84	58	78	50	85	60	87	54	78	54	85	53	80	52	80	50
Aug	225	78	57	90	65	76	51	83	51	87	62	67	52	83	59	85	55	87	58
Aug	226	80	49	77	57	84	51	80	62	87	58	75	43	79	52	85	60	87	62
Aug	227	80	63	78	56	85	54	73	55	81	56	80	54	76	55	88	59	81	51
Aug	228	74	53	87	63	85	62	72	54	85	57	81	54	92	64	88	64	79	49
Aug	229	67	56	84	60	77	51	69	51	90	61	92	60	81	57	82	60	83	62
Aug	230	75	45	87	61	69	54	72	47	85	68	92	67	58	45	80	53	85	64
Aug	231	81	56	82	59	57	45	80	49	79	57	87	68	72	50	85	60	77	52
Aug	232	85	61	87	62	48	44	82	60	72	56	85	55	80	51	87	61	82	51
Aug	233	78	55	83	54	69	39	84	60	73	44	88	59	87	57	79	52	89	64
Aug	234	70	46	88	62	80	49	74	47	74	55	85	63	85	68	81	52	84	62
Aug	235	84	50	88	57	81	56	69	40	67	53	81	49	92	67	87	56	73	46
Aug	236	91	57	87	58	80	56	86	51	70	42	91	64	84	58	80	67	72	41
Aug	237	86	69	88	65	86	59	79	59	73	54	82	52	77	45	84	60	84	50
Aug	238	87	62	87	62	85	61	70	48	86	55	83	59	71	51	80	68	87	59
Aug	239	82	49	78	59	79	56	64	46	84	57	86	55	84	40	80	54	86	48
Aug	240	82	63	79	57	78	50	70	43	80	59	89	57	75	56	86	55	64	40
Aug	241	85	58	72	48	73	47	70	50	75	50	83	56	70	40	94	69	57	40
Aug	242	85	68	74	42	75	47	77	52	68	44	72	49	83	48	81	65	49	43
Aug	243	94	67	81	51	68	38	76	53	74	43	79	59	88	56	84	54	70	39
Sept	244	83	56	83	57	56	36	68	46	86	52	75	47	86	63	79	59	72	45
Sept	245	75	52	81	53	77	40	66	44	82	54	63	42	87	59	69	37	80	54
Sept	246	77	53	85	59	70	50	71	48	69	43	78	39	92	72	64	33	65	35
Sept	247	72	57	80	48	57	39	75	49	73	49	87	62	88	64	60	38	58	29
Sept	248	80	51	90	58	48	34	67	45	73	50	81	57	94	70	54	36	68	39
Sept	249	73	45	80	45	50	32	67	44	75	54	79	58	87	64	69	44	78	47
Sept	250	75	41	84	58	64	30	78	47	85	46	80	54	75	60	84	49	79	53

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		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	71	58	85	55	71	40	71	42	89	59	92	57	75	55	78	56	68	28
Sept	252	70	48	76	54	77	50	60	37	81	57	62	35	65	39	76	53	39	28
Sept	253	76	45	55	31	78	57	58	38	76	58	83	42	70	38	72	39	72	33
Sept	254	82	57	70	33	83	52	66	38	82	55	84	56	78	48	53	38	80	51
Sept	255	82	64	83	55	78	52	59	41	84	59	89	65	69	39	45	31	70	40
Sept	256	70	50	77	53	77	53	54	36	78	64	88	63	73	46	39	30	76	41
Sept	257	70	43	88	52	74	45	68	30	68	47	89	58	76	46	54	27	67	42
Sept	258	76	50	81	62	70	44	61	43	55	39	77	40	70	54	70	35	74	49
Sept	259	69	52	81	51	73	47	76	37	69	39	41	31	72	46	82	51	67	45
Sept	260	66	46	76	51	68	41	65	47	75	47	41	31	60	46	79	60	71	42
Sept	261	66	47	69	48	75	40	57	31	70	51	58	38	49	37	79	55	70	45
Sept	262	71	41	68	46	72	57	40	23	78	47	72	48	73	43	59	30	62	45
Sept	263	61	45	63	48	77	45	51	31	72	37	62	48	84	52	61	36	65	44
Sept	264	69	36	56	40	88	59	44	32	75	37	60	46	85	53	53	35	67	44
Sept	265	84	52	48	32	75	49	59	32	86	55	52	40	74	36	46	32	59	47
Sept	266	75	58	46	28	56	36	72	39	82	60	51	34	38	32	47	33	70	49
Sept	267	67	41	42	32	67	35	74	44	61	36	55	40	59	34	48	27	63	46
Sept	268	75	46	36	30	75	45	71	47	66	33	48	39	58	40	61	34	67	42
Sept	269	81	46	55	32	77	43	70	43	57	41	55	39	70	46	55	33	72	44
Sept	270	81	45	66	45	81	52	78	48	64	33	48	37	61	41	49	27	74	54
Sept	271	72	36	72	48	78	57	83	58	70	45	38	30	68	47	74	36	70	56
Sept	272	37	29	65	37	68	43	80	45	60	34	37	25	59	42	69	24	62	42
Sept	273	38	29	54	35	56	33	76	49	43	25	39	24	51	40	39	21	48	33
Oct	274	48	35	57	31	73	40	84	50	47	30	40	30	66	31	47	32	47	40
Oct	275	75	37	72	41	64	42	81	57	60	36	43	26	61	46	57	33	64	42
Oct	276	65	45	73	46	77	43	79	59	72	50	56	34	62	35	66	37	68	41
Oct	277	55	27	75	56	68	47	65	48	65	50	65	38	72	46	67	46	70	44
Oct	278	48	33	63	38	76	43	56	35	77	51	69	38	76	50	77	50	71	53
Oct	279	62	31	44	30	66	51	64	39	72	55	58	40	68	56	74	50	60	44
Oct	280	78	47	61	31	62	37	42	25	61	49	43	26	78	45	52	33	59	41
Oct	281	78	57	74	47	76	46	31	22	59	40	38	19	74	56	34	27	63	43
Oct	282	65	49	72	52	66	37	41	26	45	30	57	28	76	53	54	28	72	37
Oct	283	59	41	77	56	60	35	56	31	49	26	36	24	61	40	52	38	73	44
Oct	284	62	39	70	38	68	43	64	40	70	41	45	21	53	30	61	41	67	43
Oct	285	49	35	51	34	73	45	70	39	75	51	48	37	65	40	50	35	73	46
Oct	286	43	30	54	40	77	55	58	44	78	51	50	34	61	40	57	38	72	51
Oct	287	40	27	72	36	63	43	56	37	78	47	57	40	52	34	65	44	71	57
Oct	288	56	31	59	48	56	33	45	37	77	53	60	39	43	27	75	50	62	32
Oct	289	66	45	58	34	64	36	46	31	66	42	40	32	52	29	78	50	47	28
Oct	290	72	44	62	43	76	42	56	27	68	34	59	29	62	36	62	33	54	31
Oct	291	59	43	72	41	64	39	55	35	79	52	71	45	55	34	41	27	64	39
Oct	292	66	37	72	49	70	46	45	36	76	58	66	44	48	29	72	29	50	33
Oct	293	57	42	61	43	60	40	40	32	67	29	62	30	40	15	71	55	59	33
Oct	294	62	33	67	40	63	31	43	31	34	28	53	39	55	30	69	42	62	44
Oct	295	71	47	55	36	70	32	46	37	45	33	56	32	59	38	60	30	55	30
Oct	296	58	42	37	19	60	30	41	25	53	37	55	38	58	48	46	26	45	28
Oct	297	43	27	62	31	66	25	27	20	51	33	54	37	65	43	39	29	40	26
Oct	298	28	21	71	46	54	27	35	11	44	27	60	39	67	46	50	28	52	20
Oct	299	27	20	65	44	41	25	47	20	46	28	40	26	58	39	65	36	67	39
Oct	300	51	18	50	30	46	26	53	23	43	28	49	24	74	39	58	42	55	43

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	45	25	40	25	60	35	45	33	35	27	44	33	63	39	42	30	60	35
Oct	302	36	20	38	27	56	29	49	32	45	25	37	23	53	30	30	17	63	49
Oct	303	36	27	55	24	39	26	67	44	60	32	26	19	43	22	49	15	60	39
Oct	304	35	29	50	26	50	20	57	39	59	36	50	24	36	21	55	31	54	43
Nov	305	30	16	30	18	55	39	44	29	56	32	55	41	44	21	54	38	47	29
Nov	306	61	16	25	11	46	25	31	22	56	36	64	36	47	34	39	5	40	30
Nov	307	45	32	54	20	26	19	28	21	50	29	55	38	42	30	39	10	58	35
Nov	308	51	28	60	40	25	17	30	23	51	25	39	5	37	29	34	11	51	31
Nov	309	54	42	53	28	34	17	35	18	37	21	9	1	31	25	29	12	63	41
Nov	310	65	42	33	22	31	13	48	22	46	26	43	5	42	23	52	18	55	34
Nov	311	59	37	32	14	33	19	35	21	47	30	42	26	48	30	38	27	42	29
Nov	312	56	37	51	22	27	18	24	14	46	27	41	22	54	27	63	24	58	30
Nov	313	63	36	48	33	39	11	39	15	49	28	50	22	28	9	61	35	61	37
Nov	314	67	45	38	34	50	30	57	27	60	38	48	18	28	6	66	38	56	38
Nov	315	55	31	35	11	57	42	51	32	49	29	22	14	46	18	52	31	49	29
Nov	316	62	43	19	3	54	32	45	32	56	30	19	-3	52	29	33	21	59	38
Nov	317	52	31	21	-4	56	24	47	30	55	33	2	-15	47	29	40	17	55	35
Nov	318	58	29	35	0	51	31	39	30	36	27	31	-6	52	31	56	32	45	35
Nov	319	60	41	5	-10	32	14	31	26	29	22	38	-8	48	33	41	16	37	25
Nov	320	54	43	5	-13	21	8	29	20	25	14	1	-16	43	24	26	14	31	25
Nov	321	44	33	25	-2	30	10	27	21	15	8	45	1	41	20	31	9	34	23
Nov	322	46	32	36	15	40	15	28	15	34	12	49	29	41	27	34	12	31	21
Nov	323	55	38	51	29	38	18	27	20	46	32	50	31	55	28	31	22	40	19
Nov	324	49	38	48	32	19	10	24	16	50	25	40	30	43	29	37	16	57	29
Nov	325	45	32	52	42	27	3	20	11	50	40	50	34	55	30	35	20	32	26
Nov	326	58	38	46	19	26	19	37	17	52	34	36	24	53	30	37	18	36	23
Nov	327	56	31	33	13	44	19	46	33	44	22	39	28	36	22	45	28	37	20
Nov	328	41	26	35	25	37	26	52	31	50	25	41	25	43	20	52	38	51	25
Nov	329	55	37	47	25	50	35	50	36	45	2	45	19	53	31	52	32	55	40
Nov	330	na	30	42	8	43	26	50	28	16	1	20	13	63	47	33	20	57	39
Nov	331	na	20	9	-6	55	26	35	20	14	3	15	8	58	44	49	22	56	32
Nov	332	na	26	14	-2	41	27	34	23	36	9	40	8	47	5	46	29	49	28
Nov	333	24	18	17	-4	29	13	24	18	48	30	39	31	13	2	40	20	43	29
Nov	334	19	10	40	11	45	25	43	18	50	37	36	28	33	12	49	34	46	24
Dec	335	32	6	37	24	51	39	39	32	54	32	40	23	38	20	48	33	47	32
Dec	336	45	15	28	8	52	34	32	27	50	39	57	34	52	30	50	30	50	19
Dec	337	49	31	9	3	51	39	38	27	52	34	51	30	56	42	49	30	46	29
Dec	338	42	28	18	4	61	35	58	36	35	10	31	17	51	33	31	16	29	20
Dec	339	40	28	28	10	50	15	45	36	11	-2	28	16	34	26	41	27	34	17
Dec	340	46	23	37	17	18	-9	37	27	12	-4	45	27	27	8	28	17	44	33
Dec	341	43	27	31	23	9	-12	32	24	7	0	44	31	26	8	30	14	36	30
Dec	342	28	23	31	17	20	-7	46	22	14	-10	36	25	32	20	21	7	30	15
Dec	343	44	18	36	14	23	2	56	42	33	12	43	19	35	25	7	-8	32	17
Dec	344	39	30	26	18	41	15	43	10	35	24	43	31	43	24	0	-12	33	4
Dec	345	35	23	34	12	44	28	47	10	33	15	41	27	44	24	5	-11	15	-3
Dec	346	47	20	49	28	41	10	46	35	16	7	44	31	46	24	8	-5	48	13
Dec	347	44	29	29	11	29	10	42	32	13	6	41	28	50	23	23	2	52	40
Dec	348	33	23	12	3	45	17	51	27	29	6	40	19	53	31	30	9	48	39
Dec	349	43	26	33	3	38	25	43	27	44	27	53	33	57	24	39	18	56	41
Dec	350	35	18	32	12	39	26	48	23	46	31	49	36	26	11	36	20	57	40

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1954	1954	1955	1955	1956	1956	1957	1957	1958	1958	1959	1959	1960	1960	1961	1961	1962	1962
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	32	19	19	0	40	15	49	38	39	29	38	25	27	18	34	11	56	37
Dec	352	na	29	11	-10	38	3	43	29	52	33	42	24	32	15	29	8	50	33
Dec	353	50	39	48	1	48	29	36	25	47	26	37	29	33	22	30	7	37	29
Dec	354	51	43	49	34	41	30	47	25	49	25	44	28	40	13	43	18	34	28
Dec	355	51	38	49	35	49	28	46	31	53	34	47	29	20	2	43	25	39	23
Dec	356	49	42	51	39	53	28	44	26	43	29	33	17	9	-1	26	12	39	4
Dec	357	43	28	54	43	35	18	38	20	36	25	31	18	27	0	39	21	11	0
Dec	358	51	30	52	26	23	12	42	26	38	25	51	24	37	27	51	30	12	-1
Dec	359	38	25	52	29	36	20	34	27	44	21	50	42	52	36	45	21	14	0
Dec	360	29	17	53	33	40	29	46	25	42	30	46	22	41	24	23	15	22	11
Dec	361	24	8	50	33	45	35	36	20	47	29	29	15	29	19	18	5	36	19
Dec	362	40	11	34	15	46	39	39	18	40	17	31	17	22	12	23	5	40	17
Dec	363	37	23	26	11	41	30	34	25	35	16	25	16	23	9	31	13	43	4
Dec	364	37	14	41	14	51	35	26	18	37	22	33	11	31	16	32	28	53	35
Dec	365	39	26	55	25	49	37	21	na	42	29	31	15	38	25	35	25	42	26
29 Feb	366					38	24							31	20				

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Jan	1	45	25	54	37	29	21	32	16	35	21	24	-13	42	14	20	6	28	15
Jan	2	48	34	48	21	39	15	31	8	27	16	1	-18	33	7	19	6	16	7
Jan	3	56	29	31	21	41	30	37	22	35	11	10	-3	27	5	18	11	10	-1
Jan	4	41	24	39	28	43	27	45	31	32	23	35	3	35	12	14	-5	5	-3
Jan	5	39	17	28	17	45	25	43	25	42	21	35	-13	35	30	6	-9	-2	-11
Jan	6	36	29	33	20	49	36	49	27	24	-1	3	-20	30	12	5	-1	13	-6
Jan	7	46	28	27	18	49	14	39	31	17	-1	35	-2	42	11	0	-7	25	1
Jan	8	47	35	18	9	28	8	50	33	33	8	35	21	42	5	15	-13	30	18
Jan	9	37	5	25	9	29	18	48	22	31	19	40	12	22	6	36	0	30	8
Jan	10	6	-16	24	19	32	20	39	15	42	21	45	32	22	12	48	31	38	0
Jan	11	-15	-25	20	5	33	23	43	25	48	35	42	13	35	15	35	18	5	-6
Jan	12	0	-25	21	-3	28	17	35	27	37	27	25	13	37	13	37	15	41	-10
Jan	13	13	-7	30	11	30	20	38	23	35	25	52	11	49	13	46	26	38	2
Jan	14	15	0	38	20	36	29	44	32	26	16	46	35	50	41	48	28	27	10
Jan	15	22	1	30	21	34	29	34	-1	39	12	59	29	46	27	37	3	39	14
Jan	16	27	10	44	20	47	30	12	-4	41	6	52	31	38	19	5	-9	44	31
Jan	17	21	5	39	25	45	33	31	6	7	-10	41	24	32	16	-1	-14	40	28
Jan	18	6	-22	35	26	53	30	43	18	23	-5	38	17	25	8	30	-9	36	25
Jan	19	20	-23	32	15	44	29	27	-4	42	13	55	34	46	11	30	6	50	28
Jan	20	25	9	46	23	53	27	-2	-14	47	38	48	38	43	-2	31	11	49	25
Jan	21	35	25	49	33	42	30	19	-13	47	36	50	36	51	2	40	28	32	15
Jan	22	32	-20	42	21	34	25	20	4	48	42	44	31	5	-14	40	32	28	6
Jan	23	2	-25	28	4	30	19	11	-4	42	23	47	27	4	-15	55	26	36	17
Jan	24	17	0	21	2	45	18	13	-6	27	12	57	44	9	-8	51	34	39	28
Jan	25	4	-8	32	14	33	14	24	-9	26	16	52	24	28	-8	41	29	36	19
Jan	26	-2	-15	35	25	20	10	30	-4	39	11	25	17	50	1	33	23	29	9
Jan	27	20	-6	39	20	33	15	0	-11	43	23	27	13	47	-5	47	25	41	28
Jan	28	15	-6	36	25	29	12	2	-14	54	30	31	4	30	-10	43	12	44	34
Jan	29	-3	-11	48	26	30	16	24	-7	54	31	34	3	25	-1	22	11	46	30
Jan	30	25	-10	42	29	25	10	50	17	45	32	40	31	28	-1	40	17	40	3
Jan	31	47	15	35	25	39	3	31	15	33	21	38	24	23	6	45	25	12	3
Feb	32	48	22	36	26	12	0	31	11	31	16	33	15	30	17	36	9	38	5
Feb	33	37	2	29	21	12	1	28	21	40	20	45	22	20	10	15	-1	38	16
Feb	34	52	32	34	10	19	1	32	17	43	31	48	29	35	12	40	5	17	5
Feb	35	57	45	51	25	51	15	49	17	46	26	50	28	57	22	38	18	31	3
Feb	36	60	42	42	19	55	38	45	30	42	7	49	32	45	30	36	17	19	0
Feb	37	56	35	19	7	51	28	40	30	30	19	39	14	42	24	41	20	8	-8
Feb	38	53	42	26	14	31	12	46	30	25	14	44	22	32	7	34	25	10	-15
Feb	39	43	33	29	20	48	21	39	23	39	14	36	20	41	11	35	23	16	6
Feb	40	33	17	30	23	36	17	29	20	37	26	45	22	48	11	56	22	40	6
Feb	41	21	0	41	22	17	9	22	10	29	21	39	30	41	25	52	30	43	33
Feb	42	22	-5	41	26	19	3	30	11	32	22	34	22	30	20	35	16	39	25
Feb	43	32	10	29	20	14	4	29	11	41	27	23	1	37	16	32	15	42	21
Feb	44	27	19	35	16	32	5	21	0	47	34	17	-6	56	27	24	10	50	34
Feb	45	38	12	27	18	30	13	22	9	44	5	22	8	43	22	34	18	42	30
Feb	46	35	25	35	5	24	3	12	-3	23	-2	31	10	35	18	42	26	54	30
Feb	47	33	27	29	21	37	16	22	3	31	10	25	6	35	19	50	35	44	27
Feb	48	41	20	30	17	47	32	36	19	22	5	19	0	35	18	54	37	41	22
Feb	49	38	27	29	16	51	40	29	-1	38	3	40	9	37	22	37	8	32	23
Feb	50	38	28	28	16	58	38	37	18	20	7	44	36	40	20	25	20	33	22

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Feb	51	36	3	23	11	47	7	30	10	29	0	37	8	27	18	41	23	24	13
Feb	52	23	-5	31	11	16	2	33	12	38	16	39	7	26	9	51	29	22	0
Feb	53	34	23	24	4	20	-12	33	15	24	4	33	18	35	10	48	23	36	8
Feb	54	30	21	31	0	9	-20	47	15	22	-2	44	28	34	21	50	29	34	14
Feb	55	35	25	30	10	24	-5	55	30	37	4	41	33	41	20	38	18	46	22
Feb	56	32	21	18	-1	41	19	52	28	56	28	38	32	52	26	44	17	38	23
Feb	57	46	27	26	9	56	29	41	27	48	30	40	30	43	21	41	29	23	13
Feb	58	40	28	20	11	57	33	39	25	45	27	36	23	29	18	31	19	22	10
Feb	59	35	24	43	19	48	15	38	26	58	39	26	22	43	13	22	17	29	6
Mar	60	33	30	34	23	15	2	44	24	52	38	50	20	45	22	35	12	19	6
Mar	61	30	24	39	17	14	0	28	2	38	22	48	38	23	13	54	25	25	1
Mar	62	25	17	36	24	10	2	13	-2	28	17	40	18	30	11	33	13	40	15
Mar	63	27	4	29	16	32	8	9	-1	26	19	52	21	32	10	32	14	34	22
Mar	64	31	10	31	16	40	18	22	5	19	11	52	36	38	15	32	21	26	17
Mar	65	30	21	34	19	34	19	38	8	31	11	57	31	31	16	44	18	19	6
Mar	66	36	19	26	8	37	22	47	24	18	-8	64	40	17	3	58	37	30	3
Mar	67	35	22	31	8	36	19	49	27	40	11	59	36	9	-3	47	28	40	19
Mar	68	37	21	27	7	31	19	54	36	53	33	48	29	11	0	28	8	35	24
Mar	69	44	27	37	13	28	17	56	34	55	27	36	25	23	0	25	8	42	25
Mar	70	33	26	32	21	37	17	45	30	55	20	27	18	33	5	29	4	43	27
Mar	71	27	14	39	17	31	21	53	29	43	15	30	18	21	11	29	9	53	26
Mar	72	31	5	46	31	34	16	61	36	22	9	42	17	17	7	33	4	53	33
Mar	73	45	19	42	22	31	22	55	42	20	10	51	30	33	6	35	26	33	25
Mar	74	48	28	31	17	38	19	59	35	44	11	46	30	44	17	36	19	33	22
Mar	75	40	17	39	26	36	9	63	43	39	13	46	32	52	32	43	20	33	22
Mar	76	42	20	38	17	9	-12	44	24	34	11	55	28	56	35	37	24	28	18
Mar	77	43	29	50	33	5	-12	35	19	46	25	56	36	53	30	25	21	24	14
Mar	78	37	28	45	37	2	-7	60	28	44	31	45	19	43	27	22	14	29	11
Mar	79	48	29	39	12	8	-4	53	28	42	25	23	15	36	25	41	9	47	22
Mar	80	58	32	32	10	28	-1	45	25	53	28	23	15	48	24	34	25	40	13
Mar	81	62	37	52	18	24	-4	32	12	57	29	22	10	42	33	31	18	22	-1
Mar	82	63	49	44	17	7	-7	20	9	64	45	38	8	34	22	38	21	26	11
Mar	83	57	38	17	-1	7	-8	49	12	58	37	58	26	24	16	37	26	41	14
Mar	84	45	29	9	-6	17	-9	45	27	42	31	53	44	26	12	27	18	37	28
Mar	85	52	31	19	-3	29	3	49	21	52	30	53	31	34	22	33	13	57	27
Mar	86	59	39	32	13	30	12	54	28	50	29	48	38	51	21	24	8	55	32
Mar	87	67	48	33	11	33	12	55	36	62	36	52	29	45	12	37	21	38	25
Mar	88	57	36	27	8	40	15	58	33	70	45	61	37	27	11	34	21	49	25
Mar	89	62	42	37	15	58	27	63	39	61	27	64	32	41	11	27	13	64	37
Mar	90	64	43	54	32	51	40	56	40	40	23	59	27	63	21	24	14	57	19
Apr	91	64	33	66	37	61	31	51	30	50	20	47	15	57	35	37	10	28	15
Apr	92	40	18	63	44	59	42	55	28	43	24	55	30	65	30	34	25	43	22
Apr	93	33	15	53	30	52	30	30	26	61	29	49	26	65	44	36	12	39	28
Apr	94	48	23	37	21	44	25	28	19	65	44	27	7	56	38	48	24	32	26
Apr	95	55	36	48	23	37	27	34	22	60	41	34	1	68	37	48	36	45	16
Apr	96	64	40	40	21	51	25	45	25	49	29	56	27	74	50	65	33	64	32
Apr	97	58	44	25	20	58	35	42	27	62	28	49	30	66	45	67	43	69	47
Apr	98	54	40	27	17	54	37	36	24	58	36	31	25	46	28	44	24	57	30
Apr	99	40	30	47	14	62	35	56	25	48	30	37	24	45	28	56	33	63	26
Apr	100	38	30	52	34	50	30	53	42	60	36	48	25	61	34	57	45	70	44

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Apr	101	40	24	59	35	31	25	45	29	68	45	64	33	61	38	45	29	65	25
Apr	102	52	27	54	38	41	25	38	29	56	36	69	40	59	39	29	24	42	29
Apr	103	65	39	52	27	45	32	44	32	40	35	64	28	63	41	24	18	55	26
Apr	104	75	41	35	25	41	35	55	27	59	34	33	26	55	35	27	17	68	35
Apr	105	67	50	50	29	46	32	57	39	55	33	52	20	39	31	30	23	72	44
Apr	106	51	33	67	41	44	30	54	31	46	26	65	34	34	28	34	19	62	34
Apr	107	49	29	64	40	43	27	37	20	48	24	55	26	51	25	35	11	66	36
Apr	108	45	27	41	22	53	29	23	14	67	34	32	22	65	32	27	21	56	40
Apr	109	42	24	34	27	60	36	19	10	65	47	39	20	62	38	31	20	40	32
Apr	110	39	27	48	30	66	47	33	7	58	32	49	29	59	35	28	20	49	36
Apr	111	27	21	43	33	68	36	46	21	33	16	48	30	60	27	38	22	45	34
Apr	112	29	22	50	33	65	41	49	29	34	12	43	28	66	40	38	23	45	34
Apr	113	44	20	59	36	46	28	52	35	42	18	34	23	65	44	45	28	56	33
Apr	114	53	30	65	39	36	28	55	34	40	26	45	27	74	47	52	29	52	36
Apr	115	56	32	67	46	52	27	62	35	34	30	50	31	66	28	56	32	39	28
Apr	116	57	34	61	42	45	34	69	34	44	29	49	29	30	23	54	28	34	25
Apr	117	48	40	51	35	54	23	37	22	65	35	44	29	26	19	50	30	33	23
Apr	118	53	31	41	35	69	38	41	19	70	43	43	32	48	16	47	30	44	22
Apr	119	40	34	50	35	72	42	35	18	59	31	57	29	61	33	40	24	52	35
Apr	120	62	29	63	30	74	50	48	20	32	13	70	39	57	29	39	27	54	35
May	121	68	45	63	37	72	45	59	35	30	13	74	45	56	31	43	26	57	38
May	122	57	32	59	39	64	32	63	31	29	18	72	48	60	31	58	32	69	37
May	123	67	32	48	41	57	33	70	40	27	15	67	40	68	49	62	40	70	44
May	124	63	32	48	32	71	48	79	51	37	19	54	31	57	41	69	38	61	38
May	125	68	43	60	35	65	43	77	45	44	19	55	29	60	40	66	38	54	40
May	126	74	50	60	36	50	32	75	52	54	29	64	38	64	35	76	53	58	30
May	127	77	56	53	34	55	40	75	57	52	32	55	33	64	34	74	52	55	34
May	128	71	50	53	35	45	27	70	32	52	32	44	29	50	34	60	33	66	39
May	129	69	48	46	35	41	25	53	31	72	42	42	30	64	36	49	30	61	44
May	130	60	36	54	35	58	35	65	38	67	28	57	23	61	37	52	34	49	35
May	131	69	41	60	38	63	37	57	23	34	20	56	24	58	32	56	37	53	30
May	132	55	43	48	32	68	39	35	22	39	28	54	21	70	37	62	36	66	37
May	133	62	38	59	31	68	44	57	29	41	29	68	39	72	45	60	32	72	41
May	134	61	39	76	40	51	41	66	34	44	31	65	48	72	56	41	30	73	41
May	135	64	43	69	50	55	32	57	35	48	37	62	42	70	48	54	35	64	37
May	136	61	44	69	48	71	37	65	42	55	35	49	36	48	32	78	47	61	49
May	137	57	39	77	44	67	40	59	36	73	38	46	32	61	33	79	48	52	37
May	138	54	37	83	56	55	36	46	35	72	50	43	30	66	36	78	50	47	30
May	139	55	35	80	52	70	42	59	35	54	36	39	31	63	38	66	43	46	28
May	140	54	36	79	45	75	53	69	43	64	38	45	32	52	38	74	56	59	32
May	141	47	22	87	63	53	39	81	47	69	44	54	28	44	27	69	47	64	39
May	142	59	29	82	62	43	36	79	41	77	51	62	38	54	29	60	46	59	47
May	143	66	40	72	46	72	40	51	32	80	46	58	43	67	38	65	42	48	32
May	144	67	46	63	40	51	38	67	40	77	51	44	38	75	46	63	44	54	39
May	145	67	48	78	35	50	34	76	45	72	51	49	35	77	54	61	35	61	36
May	146	55	46	77	55	42	28	79	50	59	40	48	38	84	56	75	43	65	41
May	147	60	44	66	40	48	30	79	54	55	34	55	39	88	62	72	50	71	47
May	148	64	42	56	44	62	34	72	51	61	38	52	39	87	48	62	44	76	51
May	149	71	43	52	41	69	46	74	53	55	45	64	43	78	45	70	37	73	43
May	150	71	55	48	40	78	53	73	50	45	40	73	42	80	58	66	40	59	44

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
May	151	70	52	54	34	72	53	75	61	40	30	70	47	69	38	51	37	53	44
June	152	69	49	51	36	67	45	73	54	47	35	56	40	47	32	57	40	54	42
June	153	67	50	53	32	65	44	73	45	75	43	70	36	62	31	67	39	69	45
June	154	67	52	63	40	74	50	68	45	74	57	82	51	70	47	68	44	71	45
June	155	75	48	67	45	67	41	64	48	69	42	85	55	77	59	72	44	68	45
June	156	72	48	68	50	57	43	55	41	70	46	83	46	86	56	76	47	70	49
June	157	67	46	68	54	70	38	69	36	68	50	69	45	86	54	74	52	69	47
June	158	73	48	69	50	65	39	58	43	64	45	62	48	72	53	81	56	56	44
June	159	72	55	79	52	64	34	58	34	60	44	58	49	56	46	79	59	68	40
June	160	68	49	67	49	67	46	70	40	59	44	64	45	70	51	79	51	75	55
June	161	62	44	56	34	60	50	72	52	61	42	68	47	70	41	65	49	76	49
June	162	65	47	66	40	67	51	68	48	62	46	65	45	52	35	60	40	73	51
June	163	76	48	66	51	71	57	58	42	61	46	63	47	52	30	60	48	70	37
June	164	79	52	69	50	75	55	63	42	60	48	79	46	44	28	72	38	66	48
June	165	75	56	68	40	73	42	64	48	58	44	78	44	58	30	77	56	76	53
June	166	63	52	64	49	69	51	60	44	52	46	61	41	64	35	72	46	73	51
June	167	62	43	62	45	66	56	62	39	63	39	59	43	61	41	71	47	76	56
June	168	71	42	78	56	67	51	72	40	70	44	63	43	68	42	68	48	71	52
June	169	71	50	78	57	77	52	79	55	70	57	76	44	70	56	65	44	81	55
June	170	80	53	62	48	76	55	78	54	69	48	74	50	70	51	70	51	73	55
June	171	70	50	67	45	74	42	85	55	69	48	86	52	65	41	69	47	76	53
June	172	82	53	66	46	72	52	76	59	69	51	85	60	67	50	75	44	76	53
June	173	81	52	63	43	70	49	79	59	64	44	76	41	69	48	85	52	78	52
June	174	78	47	57	49	72	51	65	44	52	38	75	58	63	44	84	66	85	59
June	175	84	50	71	48	76	56	77	52	55	36	73	51	64	46	85	50	82	58
June	176	78	53	84	55	73	55	68	42	66	43	56	47	64	49	79	61	86	53
June	177	72	54	88	61	74	55	77	42	71	45	50	38	49	34	87	56	83	63
June	178	85	49	83	55	72	51	84	64	76	49	67	34	65	44	95	70	75	56
June	179	85	68	89	66	68	47	94	65	71	57	85	54	67	46	91	70	71	48
June	180	81	61	84	64	65	50	92	72	76	49	81	51	67	40	86	60	67	53
June	181	77	51	78	56	75	50	84	65	80	56	72	47	72	40	78	55	72	40
July	182	75	45	82	50	70	51	76	58	74	48	59	39	74	49	76	45	75	47
July	183	81	56	78	56	69	45	80	58	67	40	56	41	81	52	79	51	84	44
July	184	82	59	77	56	77	51	80	64	67	44	68	38	81	65	76	55	74	56
July	185	78	62	78	54	79	53	85	64	70	50	73	52	76	49	80	49	70	50
July	186	82	58	88	63	74	55	80	59	83	53	74	48	73	48	84	63	78	50
July	187	84	62	86	63	75	49	80	51	79	55	72	49	77	53	85	59	85	58
July	188	82	57	84	51	84	55	87	60	76	63	79	51	78	55	82	55	80	47
July	189	86	63	79	56	78	59	86	63	79	56	83	54	75	50	83	57	72	42
July	190	85	64	79	56	74	50	88	58	81	62	79	53	75	54	82	55	81	59
July	191	83	62	82	57	82	53	95	69	81	53	76	54	75	53	85	61	84	57
July	192	79	54	80	61	83	62	81	66	76	49	85	59	86	57	84	62	80	58
July	193	72	55	71	52	74	57	82	59	74	51	79	57	91	64	80	56	76	53
July	194	75	49	77	51	72	48	81	56	74	49	83	56	90	58	83	57	77	47
July	195	78	49	87	52	77	52	81	55	80	56	77	62	83	69	82	53	77	52
July	196	79	53	84	62	88	58	87	60	78	55	90	58	79	58	78	46	82	50
July	197	77	54	87	63	85	58	97	70	75	49	84	63	74	55	87	62	87	56
July	198	80	51	87	66	80	60	91	74	77	60	77	65	79	48	85	57	89	68
July	199	78	54	89	66	76	57	90	68	73	55	76	56	74	58	85	64	79	53
July	200	80	55	87	62	78	60	86	63	79	54	70	50	71	58	81	51	71	46

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
July	201	88	55	89	62	88	58	84	58	84	57	84	57	75	53	79	51	81	52
July	202	89	57	89	58	89	67	82	59	84	64	84	65	81	41	90	56	78	61
July	203	86	65	94	71	91	70	72	49	83	58	82	50	80	57	83	61	76	56
July	204	88	66	93	70	81	52	82	58	81	55	85	50	76	53	76	52	80	50
July	205	89	61	87	68	77	49	93	59	84	54	82	57	79	52	78	47	78	64
July	206	88	69	81	55	71	55	89	68	83	61	73	50	85	60	86	61	73	47
July	207	75	55	79	51	78	55	83	56	76	52	75	52	80	52	85	56	69	40
July	208	66	48	88	64	78	57	80	60	72	54	75	53	73	46	80	60	69	46
July	209	77	46	88	56	83	60	73	54	80	54	76	53	82	45	84	60	60	40
July	210	78	59	80	53	85	63	78	48	89	56	76	49	83	48	83	62	63	42
July	211	77	52	83	61	72	56	89	62	84	60	84	56	78	62	83	62	75	40
July	212	90	53	87	60	74	48	91	71	84	63	83	49	82	48	75	52	76	53
Aug	213	87	61	89	72	78	50	78	62	75	57	61	41	79	48	84	57	76	50
Aug	214	84	52	91	70	84	56	79	57	76	51	78	45	84	54	82	56	76	52
Aug	215	81	50	88	61	84	56	88	62	74	49	82	53	89	67	77	52	80	56
Aug	216	84	62	87	70	79	53	79	63	78	51	80	64	87	59	83	57	84	63
Aug	217	89	57	94	63	70	54	83	59	82	59	84	58	87	65	83	64	86	64
Aug	218	89	62	93	69	69	54	80	56	78	56	85	53	77	59	81	60	85	61
Aug	219	89	64	82	53	72	43	69	49	77	55	86	64	81	55	82	67	85	60
Aug	220	89	68	82	49	78	54	56	43	76	51	88	59	82	56	87	57	86	63
Aug	221	84	58	94	55	81	53	64	47	70	44	83	56	80	51	87	53	87	62
Aug	222	89	65	86	63	92	63	71	44	74	51	64	48	90	61	81	51	77	51
Aug	223	84	65	85	60	90	64	78	54	81	54	53	44	95	68	85	65	82	53
Aug	224	75	55	65	43	92	67	64	48	83	64	73	42	87	64	86	64	88	61
Aug	225	75	39	75	40	88	71	71	38	80	58	74	55	74	50	87	65	83	63
Aug	226	82	60	77	52	80	51	72	56	80	55	72	50	83	50	86	57	83	57
Aug	227	87	63	77	59	78	55	79	48	81	59	70	48	84	61	74	47	89	64
Aug	228	81	57	79	53	81	58	87	59	77	56	69	49	90	67	86	53	87	63
Aug	229	78	57	80	58	78	56	84	56	83	55	59	42	85	53	89	63	88	68
Aug	230	77	54	87	52	74	51	71	47	80	47	75	43	72	54	88	64	82	56
Aug	231	85	51	91	65	73	48	69	52	73	46	67	45	78	55	80	46	80	54
Aug	232	89	68	86	58	65	54	55	45	83	54	73	46	83	62	82	50	85	61
Aug	233	82	54	58	40	63	52	48	41	82	67	82	55	87	58	79	64	87	62
Aug	234	74	48	46	41	72	54	57	33	81	58	79	63	86	60	79	52	90	61
Aug	235	76	56	58	43	74	57	61	35	85	57	84	52	85	58	85	56	87	59
Aug	236	79	56	68	43	73	50	70	42	87	65	72	42	85	61	86	60	75	41
Aug	237	85	64	52	38	79	54	81	51	85	56	71	41	88	63	87	60	81	53
Aug	238	81	59	71	35	72	49	87	52	71	36	80	52	88	59	91	70	82	62
Aug	239	82	60	79	54	70	48	81	68	88	57	82	57	87	62	79	55	85	64
Aug	240	76	51	66	45	86	52	80	58	85	62	83	60	87	63	76	56	86	58
Aug	241	69	45	65	41	76	45	83	56	79	53	79	56	86	61	84	64	83	62
Aug	242	69	47	61	43	58	42	82	68	67	50	62	46	71	52	77	48	71	59
Aug	243	74	50	70	40	60	38	75	57	60	48	64	40	71	47	84	64	84	54
Sept	244	63	55	84	52	77	42	66	49	73	46	65	42	79	49	84	65	82	66
Sept	245	65	51	85	62	72	52	73	53	85	52	77	41	87	61	79	53	89	65
Sept	246	65	49	77	52	78	53	70	50	74	57	76	46	86	66	76	50	88	51
Sept	247	72	49	65	41	67	40	75	45	77	50	54	39	83	50	85	55	60	43
Sept	248	80	56	65	37	60	32	71	48	82	56	50	34	65	49	83	59	62	43
Sept	249	78	58	75	46	55	40	78	49	83	56	61	33	72	44	76	61	80	49
Sept	250	87	57	67	41	55	39	80	61	82	57	73	42	71	42	76	48	81	52

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Sept	251	78	63	65	41	76	46	84	56	73	56	74	45	75	52	83	55	54	44
Sept	252	73	56	84	52	70	50	80	60	71	57	56	43	74	53	81	36	75	42
Sept	253	79	56	73	53	60	39	80	60	77	56	70	40	74	51	63	35	73	49
Sept	254	74	59	54	36	67	41	85	62	82	60	76	48	79	46	63	43	84	58
Sept	255	74	52	56	36	58	42	78	62	77	35	82	52	76	54	45	27	85	45
Sept	256	86	57	66	33	67	41	66	43	45	35	79	60	80	54	32	23	83	58
Sept	257	74	53	69	54	62	46	60	35	49	40	80	49	73	50	38	31	77	42
Sept	258	65	40	68	39	52	35	65	43	48	43	81	62	66	36	57	33	45	30
Sept	259	82	54	63	50	35	22	54	43	53	41	66	44	69	37	58	38	45	30
Sept	260	69	51	73	45	29	23	59	34	56	40	46	35	71	47	69	41	38	31
Sept	261	66	48	81	52	33	24	68	40	54	45	56	37	77	53	81	49	49	28
Sept	262	61	49	69	51	37	23	72	47	55	42	70	45	80	59	83	61	53	34
Sept	263	63	46	51	37	48	29	79	50	62	42	70	45	82	51	80	47	53	34
Sept	264	55	47	63	37	49	32	68	51	75	40	75	53	76	54	55	38	36	29
Sept	265	65	43	62	39	41	32	71	51	80	41	66	51	57	42	60	36	51	30
Sept	266	76	53	53	41	35	21	76	48	77	42	61	39	72	37	69	43	60	33
Sept	267	65	50	48	40	58	29	73	47	77	49	58	33	69	51	63	32	75	44
Sept	268	75	42	65	40	59	27	59	39	75	59	59	39	65	38	44	30	76	51
Sept	269	83	55	75	48	47	24	51	44	61	41	66	44	65	40	54	30	70	51
Sept	270	84	54	58	30	48	30	59	39	61	27	66	44	75	40	64	42	57	39
Sept	271	71	40	63	29	36	31	60	44	76	47	69	47	77	60	69	43	52	34
Sept	272	76	38	63	41	35	30	58	34	76	50	61	41	71	47	74	47	69	39
Sept	273	84	54	69	39	52	30	39	31	80	58	66	39	69	58	74	47	61	50
Oct	274	77	60	72	43	69	42	63	29	73	49	71	43	59	40	70	52	52	40
Oct	275	75	54	68	34	62	43	60	43	66	47	71	44	73	35	61	51	40	29
Oct	276	80	56	67	34	67	46	43	26	74	53	63	30	52	35	69	39	48	30
Oct	277	84	57	64	39	71	49	47	29	59	43	50	24	38	29	77	52	60	41
Oct	278	82	64	48	34	72	54	67	33	64	48	70	34	47	29	75	52	60	49
Oct	279	71	57	52	28	62	43	72	46	58	38	58	41	46	32	68	31	69	45
Oct	280	69	43	64	33	59	44	70	47	48	38	63	33	51	35	31	17	61	43
Oct	281	70	44	61	46	67	44	70	45	59	39	57	40	68	33	33	19	47	29
Oct	282	79	53	54	34	79	59	57	34	55	35	45	33	63	42	40	18	63	33
Oct	283	71	51	63	39	66	39	58	38	58	32	53	31	48	32	35	28	69	54
Oct	284	69	41	61	42	55	32	66	40	74	42	65	34	43	19	47	19	68	39
Oct	285	80	55	56	45	63	42	63	42	65	42	66	30	20	14	63	37	60	42
Oct	286	70	52	66	36	61	40	54	31	56	37	72	50	30	16	40	27	69	35
Oct	287	64	49	78	43	67	37	31	24	48	40	72	55	38	12	38	25	62	35
Oct	288	66	51	76	54	75	54	40	18	41	34	69	45	32	21	52	25	36	31
Oct	289	65	44	77	50	64	39	43	25	60	31	61	42	35	14	63	36	42	28
Oct	290	69	43	62	39	56	39	49	30	54	39	42	31	41	16	61	36	43	33
Oct	291	73	45	44	31	48	38	42	26	62	30	38	26	43	22	63	34	44	33
Oct	292	66	47	39	30	53	31	60	24	61	39	53	26	46	29	62	38	52	31
Oct	293	55	42	50	30	50	34	67	45	57	30	51	35	52	33	63	36	57	37
Oct	294	62	40	66	47	62	33	57	27	72	42	68	41	51	39	56	47	55	39
Oct	295	72	47	67	41	62	51	39	24	64	50	61	37	61	36	57	29	55	29
Oct	296	72	54	55	34	60	47	50	26	51	36	49	29	64	37	51	33	62	40
Oct	297	62	36	58	29	70	47	59	41	37	28	44	33	54	33	56	37	65	50
Oct	298	66	44	61	40	61	43	66	48	54	26	55	29	34	24	51	27	55	40
Oct	299	47	32	60	37	62	40	70	45	45	28	66	41	32	19	37	24	63	41
Oct	300	48	26	61	37	64	37	60	46	48	23	58	33	40	16	30	22	51	19

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of		1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Oct	301	56	24	52	36	65	41	48	31	53	34	39	24	56	25	25	21	19	11
Oct	302	62	42	57	36	61	40	58	32	37	27	64	34	43	28	34	22	17	9
Oct	303	47	32	69	41	67	45	53	45	45	25	79	53	37	27	34	21	21	11
Oct	304	34	24	65	53	54	32	45	29	61	40	72	54	41	29	33	11	41	11
Nov	305	46	25	55	39	69	44	29	14	55	26	61	40	37	29	24	18	42	22
Nov	306	65	33	62	39	70	46	51	17	27	15	46	32	29	22	23	19	34	24
Nov	307	50	28	59	46	57	37	39	25	25	11	49	29	48	16	22	19	40	28
Nov	308	55	38	46	34	68	38	29	22	22	10	54	33	58	34	50	17	54	32
Nov	309	45	35	53	28	59	37	52	20	32	12	46	33	68	45	49	29	46	13
Nov	310	59	28	66	26	56	37	47	29	42	23	35	24	66	40	48	27	18	6
Nov	311	54	31	58	32	61	32	33	17	52	29	28	21	58	47	48	33	59	9
Nov	312	47	27	64	37	47	25	26	5	53	29	30	22	50	40	37	26	46	33
Nov	313	48	34	64	38	48	37	33	2	60	38	36	21	50	31	48	25	58	28
Nov	314	46	32	61	39	47	31	46	24	49	34	37	25	44	32	42	25	64	39
Nov	315	39	29	56	45	50	30	34	9	49	34	31	9	41	26	43	21	64	34
Nov	316	38	19	49	36	31	19	52	23	47	31	44	16	38	29	39	33	62	42
Nov	317	47	24	40	30	40	25	49	30	50	38	59	33	29	5	33	24	55	43
Nov	318	61	36	38	27	56	28	57	36	49	38	51	27	39	5	33	21	46	35
Nov	319	57	33	30	21	56	34	62	38	55	41	32	22	54	32	48	24	45	31
Nov	320	44	29	22	16	34	23	58	38	46	37	41	21	46	28	48	36	36	25
Nov	321	44	26	35	13	48	27	54	30	43	32	31	17	29	18	43	33	27	20
Nov	322	47	33	33	20	52	34	51	25	53	25	19	11	25	14	34	27	21	18
Nov	323	53	27	29	12	49	38	55	34	43	24	29	10	39	17	30	23	41	17
Nov	324	48	15	28	12	48	33	58	35	49	20	38	25	51	33	38	25	45	36
Nov	325	17	5	29	-5	43	26	58	44	38	15	56	35	57	37	35	12	49	27
Nov	326	32	12	37	0	47	29	49	32	41	12	59	38	41	31	12	-4	43	34
Nov	327	45	28	54	32	50	33	41	26	37	28	51	38	53	26	21	0	34	23
Nov	328	43	35	39	31	43	18	38	23	41	26	43	29	46	31	51	19	45	22
Nov	329	44	25	49	31	37	17	53	26	35	19	39	26	47	21	49	23	41	29
Nov	330	59	31	43	11	26	20	45	22	23	7	36	25	39	21	35	14	36	25
Nov	331	56	39	39	9	29	21	34	18	27	10	36	18	47	17	29	21	33	23
Nov	332	40	21	36	6	30	25	53	22	32	9	39	25	43	27	49	20	36	19
Nov	333	39	30	18	3	37	20	51	19	45	12	33	24	51	27	50	34	26	19
Nov	334	53	26	22	2	57	30	19	2	43	33	43	15	57	44	61	36	27	19
Dec	335	48	28	50	18	41	30	12	0	38	23	42	33	61	36	41	27	32	12
Dec	336	49	25	42	15	51	29	25	5	44	17	34	24	54	32	44	20	39	15
Dec	337	47	37	15	8	47	31	51	19	55	33	25	18	49	31	40	21	35	22
Dec	338	57	35	24	10	58	47	44	29	47	27	34	18	53	31	41	25	30	18
Dec	339	52	41	30	10	51	35	49	36	49	32	38	15	34	24	34	7	32	15
Dec	340	53	33	31	26	59	32	42	27	41	22	29	12	28	18	53	32	43	23
Dec	341	34	15	33	22	51	34	35	28	34	15	26	15	23	5	57	36	23	0
Dec	342	20	8	44	27	53	35	38	11	26	16	33	5	19	5	45	33	22	-5
Dec	343	16	4	51	31	50	30	21	-2	31	15	51	28	28	10	33	25	39	10
Dec	344	7	2	39	29	52	35	39	11	41	21	45	31	26	12	31	8	33	16
Dec	345	18	-5	40	23	42	27	40	23	42	19	56	38	32	21	43	13	26	5
Dec	346	18	-5	36	22	33	24	51	29	20	8	51	39	46	23	29	19	27	8
Dec	347	-4	-11	22	11	25	17	53	32	9	2	39	6	43	36	39	17	27	12
Dec	348	15	-6	24	11	17	10	45	34	15	-3	25	1	54	29	49	16	30	11
Dec	349	21	-2	32	15	24	4	41	28	36	3	48	15	47	33	34	20	28	18
Dec	350	22	5	34	16	24	9	53	31	50	23	45	29	42	22	46	21	24	2

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																	
		sd483404		1909-1999															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
	Day of	1963	1963	1964	1964	1965	1965	1966	1966	1967	1967	1968	1968	1969	1969	1970	1970	1971	1971
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
Dec	351	5	-5	16	-24	28	18	47	37	34	17	46	28	46	28	37	22	44	23
Dec	352	37	-2	7	-25	36	18	48	39	24	11	41	19	38	28	22	1	49	30
Dec	353	33	22	38	-1	38	32	49	39	15	-1	23	18	41	24	27	-3	35	22
Dec	354	34	11	38	17	43	34	48	36	14	-5	25	11	38	27	32	9	32	21
Dec	355	28	16	42	25	51	28	39	20	9	-5	16	7	45	26	33	16	42	17
Dec	356	30	16	44	27	43	22	21	8	34	6	11	2	50	27	28	-1	50	34
Dec	357	50	20	49	42	24	16	41	9	44	34	10	0	36	20	28	3	46	33
Dec	358	62	44	50	41	32	12	35	18	40	22	26	0	36	21	23	2	49	28
Dec	359	51	40	44	11	45	23	31	12	27	17	30	8	32	19	33	1	47	6
Dec	360	41	27	32	15	37	1	17	5	24	8	36	14	27	13	35	20	6	-7
Dec	361	30	17	36	13	37	8	7	-2	25	2	32	14	24	10	30	15	23	-3
Dec	362	33	21	47	18	48	35	22	2	26	16	19	5	12	7	37	17	39	19
Dec	363	28	20	39	28	51	47	30	15	25	16	33	9	27	5	40	22	34	19
Dec	364	42	23	31	18	48	28	31	19	17	-10	20	-19	21	15	33	20	26	17
Dec	365	51	37	30	15	38	24	25	21	25	-12	-15	-27	22	9	44	28	35	18
29 Feb	366			35	22							14	-16						

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	31	17	30	11	4	-16	40	17	12	-1	24	-3	16	-5	-3	-16	42
Jan	2	23	8	43	18	12	-4	31	17	12	-3	25	3	34	13	12	-4	34
Jan	3	9	-4	28	-10	16	-4	32	15	12	-12	39	13	34	15	11	-1	39
Jan	4	21	-8	6	-16	15	0	35	18	32	2	30	1	46	15	4	-9	31
Jan	5	22	11	19	-3	4	-11	32	21	36	17	18	-4	44	27	20	-16	47
Jan	6	34	17	10	-6	14	-13	35	20	31	-7	28	10	45	33	17	7	44
Jan	7	50	25	4	-8	21	8	30	18	-3	-13	33	1	38	5	7	-4	11
Jan	8	42	22	2	-15	15	-5	37	14	31	-13	10	-10	12	-7	26	1	3
Jan	9	36	20	13	-13	14	-6	35	13	42	24	7	-9	8	0	25	3	40
Jan	10	25	12	25	-2	11	-9	17	0	35	20	19	-10	19	-1	19	-4	45
Jan	11	33	11	39	11	11	-21	2	-17	39	18	15	8	33	8	32	15	28
Jan	12	35	4	46	27	38	1	25	-13	31	23	38	5	34	26	15	-5	47
Jan	13	8	-16	47	34	42	24	34	22	26	15	34	24	28	11	1	-12	48
Jan	14	-3	-21	49	39	50	36	33	28	37	9	27	4	36	14	25	-11	48
Jan	15	36	-5	62	37	52	40	31	12	35	24	6	-7	27	4	23	8	49
Jan	16	54	33	57	40	62	33	40	4	42	25	25	-6	23	-2	35	18	39
Jan	17	50	34	44	35	53	44	42	25	48	33	28	4	47	16	39	15	43
Jan	18	40	20	43	29	47	23	37	22	46	23	42	0	19	0	43	21	32
Jan	19	48	4	44	26	50	33	35	19	30	16	45	23	32	0	33	20	28
Jan	20	43	5	37	22	42	29	44	26	40	25	37	21	28	13	26	12	38
Jan	21	47	31	31	17	30	18	26	18	48	32	45	19	34	19	41	17	32
Jan	22	35	28	29	15	26	7	42	18	55	35	44	23	42	19	34	4	37
Jan	23	36	23	45	23	33	18	45	33	46	28	35	23	32	21	19	5	44
Jan	24	23	-11	61	36	39	24	42	28	28	17	25	17	26	11	39	18	44
Jan	25	-8	-20	56	34	43	27	29	19	19	5	27	18	23	-11	26	12	27
Jan	26	-10	-23	38	22	38	18	27	13	23	0	26	18	16	-5	20	3	2
Jan	27	-5	-21	23	7	32	17	20	4	49	17	30	1	30	2	20	-1	0
Jan	28	24	-14	37	1	39	23	19	8	47	29	11	-14	20	4	19	-1	4
Jan	29	16	10	50	28	42	27	27	6	49	27	16	6	31	5	14	-1	5
Jan	30	31	9	46	19	40	17	21	4	41	23	18	2	23	5	10	-6	17
Jan	31	26	13	41	24	36	11	25	1	45	11	36	12	23	5	23	-1	35
Feb	32	14	-5	33	23	44	19	39	10	42	30	42	20	14	-7	18	0	41
Feb	33	11	-12	47	21	36	25	48	19	42	23	30	22	38	-8	18	-7	41
Feb	34	16	4	52	30	33	24	40	5	43	9	43	22	46	20	21	6	47
Feb	35	41	3	44	26	44	28	5	-6	9	-5	37	22	42	25	18	11	40
Feb	36	39	20	37	20	35	4	-1	-12	7	-9	38	24	50	23	37	12	32
Feb	37	31	8	20	2	26	-3	23	-6	28	-6	32	14	46	14	32	19	38
Feb	38	36	26	15	0	20	10	24	1	38	21	43	22	42	13	38	17	30
Feb	39	35	17	31	4	28	11	3	-9	55	32	53	29	34	11	30	-1	29
Feb	40	31	11	41	14	42	21	46	-12	50	38	52	33	34	13	42	7	43
Feb	41	39	8	42	16	39	27	39	18	41	22	49	32	40	20	48	32	27
Feb	42	47	20	44	28	50	33	35	26	48	22	42	34	23	6	44	29	27
Feb	43	36	29	41	23	44	31	38	9	49	35	37	29	11	6	50	20	37
Feb	44	48	26	23	7	41	25	52	32	49	27	41	27	18	2	52	33	25
Feb	45	30	21	28	4	47	24	40	14	54	33	27	22	20	2	45	10	12
Feb	46	33	16	28	12	42	30	29	7	43	26	38	21	26	0	11	-16	12
Feb	47	44	27	39	16	49	27	39	20	38	22	47	25	19	2	20	-15	24
Feb	48	42	12	39	28	45	31	26	14	35	27	45	34	26	1	33	11	51
Feb	49	41	12	35	26	37	25	27	10	38	21	41	27	30	15	47	18	54
Feb	50	55	32	28	18	46	23	35	20	34	21	36	21	27	18	45	30	54

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	54	37	34	20	40	22	40	22	28	17	51	29	26	7	33	22	55
Feb	52	45	21	46	17	25	15	30	13	36	15	54	34	49	18	42	11	45
Feb	53	52	23	50	33	42	14	22	9	51	30	45	29	42	26	33	4	36
Feb	54	46	15	55	31	35	11	39	12	60	36	34	26	49	25	21	4	35
Feb	55	32	13	45	28	28	9	47	26	49	33	30	22	43	16	36	9	34
Feb	56	31	17	44	27	54	17	30	17	48	25	28	17	21	11	50	6	44
Feb	57	40	20	48	31	54	32	32	10	54	30	34	14	36	6	49	13	45
Feb	58	53	30	54	28	50	30	35	18	48	29	31	16	30	15	38	23	59
Feb	59	59	43	53	31	51	22	38	23	47	16	27	17	21	3	46	15	52
Mar	60	52	22	55	33	58	41	38	27	28	12	42	9	40	7	37	15	23
Mar	61	27	10	46	33	60	34	34	25	43	12	29	16	8	-4	34	13	40
Mar	62	42	15	47	22	34	23	33	23	16	0	18	9	12	-15	29	10	57
Mar	63	40	11	44	24	34	18	43	27	23	-6	25	13	41	-2	40	12	42
Mar	64	26	10	33	26	49	28	38	24	18	-1	32	18	40	26	48	29	20
Mar	65	50	15	39	27	45	24	27	14	24	1	45	18	37	26	43	34	20
Mar	66	62	32	44	22	56	20	28	9	41	16	57	32	40	26	55	36	33
Mar	67	32	14	42	23	54	28	35	10	41	18	55	30	55	26	46	27	39
Mar	68	41	11	45	30	49	15	28	15	45	27	56	30	51	33	28	12	37
Mar	69	62	28	52	26	48	30	28	8	45	27	47	25	42	28	38	11	34
Mar	70	74	41	53	30	40	29	23	13	50	28	31	25	45	19	55	36	38
Mar	71	60	39	46	30	53	27	32	6	53	10	36	19	40	26	59	30	52
Mar	72	48	33	39	29	55	30	39	14	22	-4	53	21	35	21	49	22	44
Mar	73	58	32	32	21	35	22	42	18	36	15	47	22	30	21	43	26	43
Mar	74	49	32	33	19	33	14	45	23	26	15	36	20	30	18	61	31	54
Mar	75	47	36	44	18	49	13	50	34	32	12	43	19	33	16	59	38	57
Mar	76	51	37	53	27	59	40	49	30	40	16	43	24	58	27	54	37	32
Mar	77	49	37	46	29	53	23	48	28	56	33	36	22	57	32	37	23	39
Mar	78	63	31	40	19	31	10	51	36	60	40	35	15	58	27	24	20	55
Mar	79	63	39	57	25	18	-1	57	34	53	33	32	7	50	32	39	15	42
Mar	80	49	35	53	34	32	11	45	27	34	21	35	13	56	34	36	26	38
Mar	81	54	29	39	29	29	-1	47	23	34	21	46	27	47	28	33	25	48
Mar	82	61	30	31	27	9	-2	44	15	53	22	63	28	32	25	31	23	42
Mar	83	63	41	30	26	34	4	24	9	55	31	58	42	46	26	50	24	45
Mar	84	45	26	45	21	43	19	38	8	50	24	44	28	47	32	46	19	45
Mar	85	60	23	53	27	52	30	28	8	49	32	49	24	56	30	30	15	35
Mar	86	43	24	46	24	59	34	12	1	41	27	59	26	61	41	57	15	31
Mar	87	25	17	34	22	62	41	9	0	52	26	50	23	59	37	51	22	44
Mar	88	25	12	36	16	49	35	21	1	42	24	25	20	72	39	52	33	39
Mar	89	25	13	40	26	55	38	45	8	39	17	26	14	72	45	40	24	42
Mar	90	27	15	44	24	55	36	44	11	41	19	44	22	65	41	34	28	49
Apr	91	30	14	44	26	48	30	21	6	59	24	38	20	55	30	29	19	37
Apr	92	54	17	36	29	48	28	29	3	68	42	34	13	56	39	29	18	35
Apr	93	55	23	33	26	30	20	47	20	53	23	30	16	50	33	39	13	33
Apr	94	35	16	46	16	38	21	57	34	46	24	29	20	63	30	39	23	38
Apr	95	52	16	56	38	50	27	48	26	65	31	43	27	55	43	30	16	48
Apr	96	66	41	51	25	56	34	41	26	64	34	58	40	58	32	63	16	59
Apr	97	61	40	25	14	49	30	41	31	56	40	63	36	51	30	55	36	56
Apr	98	57	36	28	8	50	29	36	26	49	31	70	36	57	34	47	27	40
Apr	99	49	30	29	12	59	30	33	19	49	37	74	49	50	29	61	35	42
Apr	100	59	38	40	9	56	33	33	21	65	38	68	36	38	24	55	35	54

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	51	34	50	31	37	26	36	23	58	38	52	33	65	32	36	26	48
Apr	102	61	39	57	32	32	27	45	22	50	35	47	31	40	27	30	21	48
Apr	103	56	41	64	36	34	23	39	19	75	42	52	32	46	22	43	22	39
Apr	104	51	29	58	28	34	23	49	23	71	43	62	39	51	31	51	30	47
Apr	105	44	30	36	19	38	28	45	27	58	37	57	37	48	36	66	36	59
Apr	106	53	30	54	26	57	26	53	32	62	40	61	39	59	31	65	35	60
Apr	107	62	32	62	35	56	33	44	28	55	32	57	39	44	24	76	46	50
Apr	108	58	32	52	36	67	36	32	22	32	25	46	29	33	27	75	52	68
Apr	109	34	26	40	30	66	50	41	20	46	29	40	29	36	24	67	33	74
Apr	110	32	24	36	29	55	34	52	29	51	33	54	26	43	15	56	29	75
Apr	111	44	27	32	23	37	34	56	27	54	29	61	28	57	30	55	32	78
Apr	112	54	32	49	27	56	34	60	41	47	32	65	42	40	29	56	35	84
Apr	113	50	27	58	40	63	38	56	36	61	28	60	43	46	30	58	40	76
Apr	114	42	25	44	33	76	52	55	33	54	35	61	33	49	29	53	32	59
Apr	115	52	23	36	29	76	50	69	39	41	29	66	33	65	32	48	26	60
Apr	116	55	29	38	26	70	52	70	45	52	29	73	41	67	41	42	30	55
Apr	117	46	30	63	28	67	44	65	38	47	31	72	47	64	39	50	26	49
Apr	118	35	31	59	40	53	30	42	30	33	26	68	38	54	41	47	31	59
Apr	119	42	30	50	30	52	31	31	26	37	29	70	34	43	39	49	29	68
Apr	120	49	30	34	31	58	34	36	26	40	33	74	45	42	39	56	26	69
May	121	46	31	39	27	72	45	48	26	49	33	63	39	43	37	56	37	67
May	122	34	23	45	28	70	34	49	31	61	42	69	41	55	33	51	26	61
May	123	41	29	62	30	52	28	64	31	55	19	76	51	54	34	53	30	63
May	124	48	28	69	43	57	35	71	43	61	24	69	42	40	33	64	29	69
May	125	61	32	63	40	64	35	68	46	73	48	64	32	43	32	64	52	64
May	126	60	40	59	38	70	44	54	39	67	36	53	39	42	33	64	41	65
May	127	50	31	60	35	64	47	51	34	50	27	65	40	34	28	54	35	64
May	128	52	31	64	37	65	40	49	34	60	30	68	51	34	30	46	26	60
May	129	46	34	60	35	68	38	60	37	70	38	74	56	58	33	35	25	63
May	130	43	36	57	36	57	35	55	39	68	43	74	52	67	33	33	23	66
May	131	47	37	51	33	48	34	55	40	67	42	70	42	64	40	45	28	48
May	132	48	38	51	35	60	31	52	43	67	41	78	51	50	37	52	33	48
May	133	49	36	56	31	60	36	64	40	45	33	76	52	66	33	56	34	50
May	134	55	35	58	29	45	25	65	42	68	44	73	41	81	50	59	40	54
May	135	70	39	71	41	54	32	76	45	78	50	68	40	87	56	72	41	56
May	136	77	46	70	37	52	33	77	60	70	32	64	34	84	52	82	53	58
May	137	80	51	71	51	52	32	76	48	58	31	71	41	55	47	78	45	55
May	138	83	60	75	48	72	39	77	47	69	38	61	41	52	39	59	38	53
May	139	76	58	73	46	66	53	68	37	75	53	54	37	52	37	59	42	64
May	140	69	47	76	57	60	47	37	30	74	46	58	34	61	32	58	37	63
May	141	68	47	75	40	57	33	41	33	69	50	53	41	73	50	72	39	74
May	142	77	57	70	33	55	36	50	37	68	43	66	39	73	51	69	46	80
May	143	69	45	69	40	59	35	54	37	50	40	79	48	75	48	62	34	85
May	144	61	42	55	37	70	38	68	39	42	38	82	59	78	53	78	44	82
May	145	64	40	56	34	67	45	66	29	55	36	76	61	77	48	74	50	73
May	146	70	52	48	34	72	45	59	34	65	44	69	47	67	46	72	46	66
May	147	60	40	40	31	71	48	60	38	62	40	72	46	62	44	78	52	65
May	148	57	42	50	38	65	45	55	39	70	43	68	40	63	43	74	55	80
May	149	52	39	46	38	52	39	58	34	73	47	68	41	69	44	56	38	74
May	150	56	41	67	35	46	35	60	34	68	50	68	40	65	40	48	32	66

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	68	37	80	49	58	32	52	36	60	45	73	38	51	35	51	33	56
June	152	75	41	78	52	61	33	56	38	68	46	79	50	45	33	59	35	56
June	153	79	52	68	46	75	43	72	39	72	50	85	60	60	32	69	41	56
June	154	77	52	55	37	78	49	72	58	74	61	78	46	61	41	73	42	70
June	155	73	54	59	41	79	51	64	46	81	55	84	53	69	42	74	50	79
June	156	72	56	64	39	65	43	69	47	82	62	85	57	69	43	77	56	80
June	157	70	49	75	48	58	40	74	49	78	59	78	47	75	44	76	47	79
June	158	75	47	80	54	58	37	70	51	74	50	85	57	72	40	48	35	60
June	159	83	62	79	50	58	41	57	48	82	54	80	62	69	47	48	35	59
June	160	84	59	83	63	55	44	48	33	80	56	80	49	81	47	57	36	60
June	161	73	56	79	49	61	40	56	39	82	59	78	62	78	49	73	44	70
June	162	75	53	62	54	63	38	64	42	84	61	69	50	59	40	79	50	78
June	163	80	58	76	44	74	47	72	41	81	59	68	50	70	38	86	51	85
June	164	79	55	85	60	81	51	69	50	61	45	66	47	85	58	93	64	79
June	165	64	47	77	59	78	51	57	45	67	45	78	51	79	60	91	59	75
June	166	68	45	68	53	71	44	64	44	57	33	75	51	77	59	70	43	73
June	167	70	46	60	44	72	46	57	42	63	36	69	47	70	44	67	47	65
June	168	68	51	72	42	83	54	60	37	67	44	62	45	58	43	57	45	62
June	169	75	54	62	32	87	62	53	43	63	41	65	42	77	43	70	41	74
June	170	71	53	51	32	86	57	69	47	56	31	72	44	74	52	62	49	79
June	171	61	35	61	48	93	69	77	46	73	34	70	48	66	38	67	45	70
June	172	59	32	67	44	90	54	71	45	83	55	73	52	75	49	69	48	75
June	173	63	42	77	47	67	44	69	47	81	49	75	52	78	49	71	52	76
June	174	75	49	86	56	74	52	74	51	83	52	81	54	80	47	68	51	81
June	175	80	56	82	65	84	58	86	58	64	44	78	50	79	45	72	54	89
June	176	77	51	79	54	88	61	86	65	58	42	87	63	79	46	84	54	87
June	177	76	51	77	55	93	70	74	46	69	41	83	56	67	47	75	56	83
June	178	72	46	75	50	85	52	83	56	60	36	83	56	79	47	77	50	94
June	179	63	48	79	54	84	65	78	48	70	48	74	51	81	57	77	54	82
June	180	71	50	80	54	80	56	84	56	76	48	78	57	81	59	79	51	72
June	181	81	54	80	52	84	53	85	55	71	41	71	45	78	60	90	59	85
July	182	81	59	77	56	86	63	89	63	75	51	79	45	78	54	83	55	86
July	183	79	54	81	42	80	52	84	59	84	44	83	63	80	52	82	60	68
July	184	58	39	82	54	59	48	84	62	78	56	85	54	80	55	82	58	81
July	185	54	38	86	58	93	45	86	68	72	53	81	65	85	66	77	52	87
July	186	60	36	90	59	89	61	85	62	81	53	80	58	85	49	68	52	86
July	187	74	45	97	62	87	58	85	62	81	46	79	56	75	50	70	48	88
July	188	73	52	95	56	86	57	80	55	81	56	75	54	69	47	80	55	92
July	189	79	51	89	61	79	55	77	54	89	55	72	44	71	52	83	58	91
July	190	80	53	88	59	86	61	70	55	88	65	81	48	67	47	78	55	84
July	191	88	65	88	60	85	66	70	53	88	64	83	60	77	49	86	55	84
July	192	83	56	95	73	87	65	69	44	84	59	71	49	89	60	84	62	95
July	193	83	56	87	57	85	55	73	46	87	60	87	46	84	52	80	56	93
July	194	81	48	75	53	88	63	82	53	93	69	89	62	85	43	74	53	90
July	195	86	59	72	44	86	58	85	61	84	53	72	40	83	56	73	49	84
July	196	83	56	78	49	84	65	87	63	78	51	83	55	87	54	67	44	81
July	197	69	49	86	59	81	69	90	63	74	49	90	64	89	59	67	45	74
July	198	75	48	86	58	81	61	88	63	77	46	94	65	77	59	72	43	84
July	199	72	45	82	47	81	59	80	56	84	54	94	74	78	52	73	54	84
July	200	75	46	71	51	82	59	78	56	84	66	92	69	74	49	78	52	76

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	73	45	53	47	83	64	83	51	81	56	72	55	62	52	81	57	79
July	202	65	41	63	47	84	61	83	59	73	54	75	50	59	46	82	61	77
July	203	75	51	69	52	83	60	82	62	80	54	84	56	68	42	88	58	78
July	204	74	55	67	51	89	68	79	54	81	61	88	66	81	50	80	58	87
July	205	78	47	69	49	78	62	80	52	84	55	84	66	88	64	80	59	92
July	206	79	49	74	51	83	57	86	55	88	67	69	53	88	59	69	52	86
July	207	80	58	75	53	81	50	87	63	85	65	80	53	79	57	66	53	71
July	208	80	54	78	53	85	61	87	63	78	51	78	55	90	54	75	54	80
July	209	71	53	78	53	83	52	97	71	83	62	79	55	86	65	76	55	86
July	210	78	53	77	57	82	50	94	64	80	50	91	55	73	52	76	53	97
July	211	86	55	73	49	80	56	91	71	85	57	84	56	73	54	73	52	96
July	212	88	60	77	51	72	55	76	58	73	53	73	54	72	51	75	51	90
Aug	213	78	52	79	52	75	49	71	49	74	55	80	52	69	48	85	57	86
Aug	214	78	52	81	54	68	48	77	47	64	52	82	52	68	44	83	53	86
Aug	215	74	49	87	55	68	41	81	55	65	52	79	52	62	37	86	64	84
Aug	216	63	45	80	60	75	45	80	54	80	52	79	52	75	46	84	64	85
Aug	217	75	46	82	62	79	49	80	51	79	50	68	47	82	53	96	62	65
Aug	218	82	54	82	62	85	55	90	63	72	51	73	53	86	52	92	61	82
Aug	219	78	54	73	50	82	62	95	67	77	46	79	51	83	57	86	61	91
Aug	220	78	52	73	50	75	49	88	51	88	45	79	50	79	54	75	51	85
Aug	221	73	57	75	52	67	45	80	55	88	58	75	47	79	54	68	59	75
Aug	222	80	53	82	52	61	47	86	57	81	61	71	42	85	54	70	45	80
Aug	223	83	66	77	52	71	46	85	57	74	49	72	39	90	45	83	50	73
Aug	224	84	57	72	54	70	45	80	56	75	50	81	49	93	47	82	60	75
Aug	225	93	68	81	47	76	50	74	47	79	54	80	47	88	57	72	50	76
Aug	226	93	68	83	64	75	55	67	51	79	53	77	46	84	49	71	45	70
Aug	227	89	56	84	60	72	42	69	43	74	56	75	51	69	46	73	47	70
Aug	228	85	60	91	65	77	45	74	43	79	48	70	45	82	51	79	54	64
Aug	229	83	56	90	66	77	49	71	42	83	58	74	44	74	49	75	55	60
Aug	230	79	61	89	64	83	51	80	52	89	63	76	56	58	43	73	54	76
Aug	231	81	56	84	52	88	66	76	54	86	63	78	50	71	36	66	52	87
Aug	232	77	54	89	57	87	60	78	61	87	64	76	52	82	41	66	53	85
Aug	233	75	51	89	61	69	43	76	58	90	67	70	50	83	54	64	48	74
Aug	234	73	52	82	57	76	46	84	60	87	57	70	51	78	56	66	51	74
Aug	235	67	49	71	53	84	53	85	54	83	63	74	51	76	59	75	47	78
Aug	236	67	46	85	62	84	55	83	56	88	63	86	55	83	63	75	52	86
Aug	237	66	40	87	49	81	60	65	44	76	57	85	59	84	64	69	49	84
Aug	238	70	45	86	60	76	52	72	46	81	52	71	53	79	58	67	47	83
Aug	239	74	47	90	62	73	45	85	58	81	63	60	46	74	46	78	50	62
Aug	240	78	51	77	57	68	49	85	63	64	40	60	41	64	47	71	50	81
Aug	241	83	53	80	57	61	41	83	56	78	44	74	50	68	45	80	51	77
Aug	242	80	61	86	56	60	49	82	55	83	55	70	42	73	47	90	55	79
Aug	243	78	61	85	59	60	49	90	65	88	61	60	41	86	57	85	61	65
Sept	244	76	43	76	51	54	36	75	45	74	49	65	44	80	57	73	53	60
Sept	245	55	43	55	43	54	33	70	55	82	52	68	41	85	58	83	50	60
Sept	246	67	36	58	42	64	36	70	45	87	63	84	54	89	65	86	58	86
Sept	247	68	46	63	50	72	41	70	45	84	46	79	52	89	66	89	64	85
Sept	248	72	38	71	45	71	51	69	41	82	55	83	64	93	59	77	57	79
Sept	249	78	48	76	47	69	46	76	43	86	58	77	56	96	65	77	47	84
Sept	250	68	45	77	47	77	52	72	41	91	63	82	60	91	66	89	56	83

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	62	42	74	49	74	48	79	55	85	42	82	44	86	64	92	60	90
Sept	252	75	46	72	54	75	46	79	53	52	35	66	38	84	48	89	65	85
Sept	253	83	54	73	54	74	50	78	63	68	35	72	45	88	57	78	45	69
Sept	254	79	51	64	50	50	35	69	37	79	46	69	45	68	48	64	40	77
Sept	255	71	42	70	45	41	29	63	32	84	50	63	49	57	42	57	36	79
Sept	256	76	58	70	48	58	29	72	40	78	58	70	44	54	37	52	35	66
Sept	257	68	46	54	33	67	38	74	47	66	45	80	53	65	43	65	31	61
Sept	258	73	42	35	28	70	46	78	50	75	46	78	57	77	41	79	46	75
Sept	259	75	43	37	30	70	51	79	54	70	50	71	47	77	42	85	59	75
Sept	260	76	52	55	30	75	48	77	46	79	55	74	50	60	40	81	59	52
Sept	261	77	52	69	40	74	54	48	33	82	58	66	45	63	39	77	44	71
Sept	262	85	57	66	44	70	41	43	33	78	60	71	38	52	31	80	54	74
Sept	263	77	62	75	45	52	38	46	33	66	42	79	39	51	29	75	42	74
Sept	264	71	41	66	43	57	37	57	34	64	32	68	44	62	32	73	41	70
Sept	265	71	31	66	43	65	36	68	45	70	49	69	36	72	46	71	51	67
Sept	266	75	55	70	55	71	43	65	40	71	48	61	40	74	50	79	48	60
Sept	267	70	43	64	46	66	46	72	43	64	49	61	39	76	50	74	45	58
Sept	268	58	30	60	36	78	43	75	45	68	48	60	41	81	59	80	54	51
Sept	269	48	30	60	39	85	54	69	42	60	48	63	40	76	53	79	56	56
Sept	270	61	24	66	37	71	34	47	39	56	42	65	38	82	47	72	52	68
Sept	271	74	46	59	37	57	33	63	38	51	30	74	50	76	59	77	44	77
Sept	272	52	30	69	40	54	37	60	45	63	34	64	43	59	43	69	43	83
Sept	273	51	28	75	46	59	28	47	34	75	36	56	41	71	38	76	51	78
Oct	274	69	45	78	51	54	25	63	32	78	51	41	31	68	48	69	38	83
Oct	275	74	47	72	49	76	40	77	45	80	48	53	32	55	38	66	44	77
Oct	276	68	49	59	32	70	51	79	48	76	58	65	42	60	31	50	35	54
Oct	277	67	37	60	31	58	40	77	56	72	36	54	34	57	37	70	34	66
Oct	278	75	45	74	25	42	27	72	39	42	33	43	27	47	32	67	50	75
Oct	279	64	27	72	45	46	18	82	50	52	30	63	36	56	25	67	47	73
Oct	280	57	21	72	54	64	36	82	65	45	29	52	32	68	35	72	46	80
Oct	281	67	42	64	41	66	50	75	31	49	27	47	33	70	48	67	32	74
Oct	282	64	39	43	30	76	44	53	31	62	37	52	33	63	41	44	29	77
Oct	283	70	48	30	25	70	52	71	45	68	42	40	23	75	41	68	35	72
Oct	284	69	42	29	26	61	45	79	46	78	45	40	23	68	46	65	51	52
Oct	285	42	29	49	27	59	31	71	39	68	51	65	30	47	32	51	36	63
Oct	286	67	30	62	36	55	41	52	32	59	43	66	44	46	28	63	30	72
Oct	287	65	46	69	49	48	28	39	30	67	37	56	37	53	26	71	46	62
Oct	288	52	28	59	38	61	33	58	29	62	38	56	26	55	44	69	48	60
Oct	289	57	31	60	38	71	50	51	33	41	22	73	47	73	36	61	38	50
Oct	290	56	42	66	43	74	49	65	29	47	21	65	38	60	42	60	37	32
Oct	291	51	29	74	49	67	44	70	50	50	30	68	37	55	32	56	38	33
Oct	292	41	24	71	41	68	45	67	35	30	19	76	46	68	41	63	44	41
Oct	293	56	29	74	53	73	48	59	40	40	13	64	46	70	47	60	39	55
Oct	294	57	38	63	52	73	48	54	33	37	28	51	36	64	45	42	26	59
Oct	295	51	38	69	43	52	30	45	28	44	22	61	37	45	28	48	25	59
Oct	296	42	29	71	50	58	38	29	23	51	28	59	38	63	28	57	32	49
Oct	297	59	28	63	36	56	44	29	21	39	23	61	43	74	47	56	36	31
Oct	298	45	32	54	35	60	31	39	15	44	17	71	41	47	28	72	37	44
Oct	299	61	32	45	31	68	39	55	29	49	22	61	38	57	30	62	44	45
Oct	300	59	42	44	29	62	28	44	26	39	25	63	32	51	29	56	37	42

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
Day of		1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	46	24	62	28	62	37	45	22	54	21	70	47	55	35	50	34	32
Oct	302	51	24	58	35	58	34	55	25	61	28	65	48	69	43	49	29	40
Oct	303	44	16	43	29	50	40	63	44	59	38	60	41	44	29	35	27	58
Oct	304	17	9	40	26	49	34	56	38	47	37	42	31	53	26	32	22	57
Nov	305	40	11	31	20	39	29	59	32	60	18	42	27	69	40	32	17	61
Nov	306	47	22	20	15	38	24	63	34	61	40	62	33	69	41	40	24	68
Nov	307	48	30	16	13	37	25	62	39	54	26	45	27	69	43	45	28	59
Nov	308	52	35	23	9	44	25	69	44	44	26	69	34	61	33	41	25	47
Nov	309	56	30	41	7	50	27	71	45	60	26	69	41	47	27	30	23	53
Nov	310	50	36	48	31	56	33	64	45	56	44	63	38	49	24	42	19	66
Nov	311	41	32	43	14	60	34	50	36	52	22	52	31	61	38	43	26	65
Nov	312	52	28	32	17	53	41	47	29	56	23	44	19	66	40	43	19	61
Nov	313	47	34	49	21	44	30	36	22	54	45	28	16	54	24	29	13	61
Nov	314	40	30	67	35	41	29	45	11	48	36	43	16	25	10	31	15	50
Nov	315	47	27	63	38	34	25	43	11	37	18	55	31	13	7	32	23	58
Nov	316	38	26	64	44	45	19	33	13	20	11	56	42	34	11	38	21	48
Nov	317	29	16	63	36	45	18	57	26	22	1	57	33	22	8	42	29	40
Nov	318	36	18	47	33	34	13	66	39	29	10	52	36	30	9	53	28	28
Nov	319	47	23	47	30	37	19	67	39	40	17	47	27	37	14	61	40	29
Nov	320	41	30	52	29	49	29	55	35	45	19	31	26	46	18	62	38	30
Nov	321	32	21	48	31	51	31	47	30	42	28	33	20	42	25	61	29	34
Nov	322	30	21	46	24	54	34	30	20	58	39	36	22	34	3	50	38	50
Nov	323	30	21	44	14	37	30	26	17	55	39	25	13	3	-6	40	26	41
Nov	324	41	22	29	9	51	29	22	9	43	29	14	-3	8	-5	28	21	47
Nov	325	37	20	33	16	62	41	30	3	35	22	24	-5	42	2	25	15	39
Nov	326	37	17	37	17	55	33	38	20	24	15	40	12	47	28	35	11	56
Nov	327	42	26	38	12	34	20	37	15	33	13	35	8	37	28	38	23	45
Nov	328	59	29	35	18	42	26	28	6	45	13	37	1	42	25	32	25	42
Nov	329	42	26	37	21	57	35	25	9	55	40	31	19	36	24	30	21	43
Nov	330	29	22	36	22	47	21	21	9	46	27	47	18	32	24	30	15	38
Nov	331	34	24	34	19	32	25	25	14	27	-4	33	18	24	15	22	7	37
Nov	332	26	17	51	25	28	7	24	6	1	-10	37	24	34	16	12	3	37
Nov	333	25	13	60	43	20	3	34	-3	12	-4	42	25	31	24	30	6	47
Nov	334	32	9	50	29	33	6	13	-6	13	-2	38	23	35	21	37	20	49
Dec	335	42	23	60	37	43	17	39	10	29	6	27	19	38	6	38	25	42
Dec	336	50	30	56	29	41	21	49	35	39	10	30	14	16	5	47	24	20
Dec	337	45	2	40	22	53	29	59	41	47	32	41	25	29	3	50	34	41
Dec	338	3	-6	31	24	55	31	59	38	38	22	40	14	37	16	55	38	56
Dec	339	-2	-12	25	5	45	32	51	19	27	17	14	-5	18	11	49	24	56
Dec	340	-4	-17	41	11	39	27	49	20	21	9	25	-8	12	-2	40	27	48
Dec	341	5	-16	51	30	33	19	48	29	25	3	39	11	8	-6	30	19	24
Dec	342	4	-17	44	25	47	15	41	25	30	15	24	-14	11	-2	48	15	22
Dec	343	-4	-22	35	16	52	35	56	39	46	23	17	-20	23	2	57	39	35
Dec	344	3	-15	51	22	39	29	51	27	46	22	47	9	28	21	51	22	34
Dec	345	11	-7	53	38	43	23	33	17	33	13	51	34	46	12	22	2	44
Dec	346	20	0	45	30	37	22	48	15	43	25	44	34	40	20	34	7	52
Dec	347	20	0	36	22	34	15	42	9	40	22	46	32	35	17	36	15	51
Dec	348	20	1	38	18	30	17	19	0	56	22	53	34	46	17	52	25	52
Dec	349	24	7	30	24	22	11	30	0	45	32	54	33	36	23	44	-5	46
Dec	350	28	10	50	21	30	18	21	2	39	30	45	29	27	12	30	-10	53

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD																
		sd483404		1909-1999														
		Source - SDSU Climate Center (Bender, 2000b)										na = not available						
	Day of	1972	1972	1973	1973	1974	1974	1975	1975	1976	1976	1977	1977	1978	1978	1979	1979	1980
Month	Yr	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	43	13	48	34	45	29	15	-2	50	33	29	22	42	19	58	22	56
Dec	352	49	30	36	6	33	19	40	5	61	34	30	19	47	30	64	41	58
Dec	353	43	33	26	1	27	18	40	32	55	35	20	16	48	19	62	35	29
Dec	354	47	30	48	12	32	19	46	23	39	12	19	10	25	15	48	29	13
Dec	355	43	31	55	35	41	20	48	31	33	10	43	14	33	14	46	27	26
Dec	356	49	27	45	30	39	18	44	23	36	22	38	30	33	15	45	26	50
Dec	357	52	40	36	26	20	2	41	27	29	22	40	17	31	13	36	25	46
Dec	358	42	22	27	20	18	-5	36	25	41	21	17	3	36	14	44	22	40
Dec	359	44	25	29	14	41	7	36	25	36	20	26	5	30	14	48	29	18
Dec	360	34	24	26	17	35	23	39	23	30	18	23	12	25	7	40	29	43
Dec	361	51	27	31	11	42	19	41	28	48	27	26	10	35	10	39	18	56
Dec	362	53	32	23	14	38	22	29	23	44	21	40	18	32	-4	44	19	63
Dec	363	54	34	16	5	30	15	37	18	26	18	37	20	5	-13	41	22	58
Dec	364	34	8	12	-2	43	17	43	31	22	12	26	5	5	-19	37	20	53
Dec	365	12	2	7	-12	29	17	35	10	16	-12	14	-3	2	-18	46	22	52
29 Feb	366	20	11							12	4							45

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	31	38	20	40	6	39	23	35	25	13	2	42	24	42	12	21
Jan	2	21	48	28	28	6	40	16	50	23	29	11	35	21	35	29	33
Jan	3	19	49	21	25	13	44	28	49	35	44	26	36	18	44	22	17
Jan	4	20	52	32	32	12	37	18	54	35	50	34	27	9	49	28	10
Jan	5	17	42	31	30	2	49	30	53	39	47	35	42	17	44	26	16
Jan	6	-13	34	22	14	-6	46	26	47	35	40	26	33	21	31	21	24
Jan	7	-5	35	23	25	0	40	28	48	34	31	18	37	26	35	13	24
Jan	8	-13	42	24	29	18	48	36	48	32	29	11	57	23	36	14	10
Jan	9	-16	34	16	18	-1	42	19	33	20	23	13	55	21	30	19	28
Jan	10	12	38	30	1	-22	34	11	44	18	16	7	52	29	45	16	44
Jan	11	5	41	20	22	-10	41	10	38	21	15	-7	52	36	57	33	45
Jan	12	17	52	28	16	-8	54	39	23	10	47	7	42	26	61	39	23
Jan	13	41	45	34	26	8	52	36	23	13	40	26	51	34	50	30	34
Jan	14	40	38	28	35	25	36	19	22	5	42	15	64	35	30	14	43
Jan	15	32	34	15	31	-14	50	18	21	-2	41	24	53	33	14	-5	45
Jan	16	25	31	8	22	-18	39	21	22	-3	28	18	45	34	25	-4	40
Jan	17	24	46	16	36	10	44	25	2	-11	43	23	44	33	24	6	35
Jan	18	12	45	29	40	23	42	28	4	-14	35	23	44	27	34	18	23
Jan	19	6	43	31	28	7	42	23	2	-7	27	-16	57	41	24	10	22
Jan	20	11	47	20	31	0	45	23	22	-5	15	-23	51	27	25	10	31
Jan	21	20	57	28	21	-7	40	23	37	16	16	-1	28	13	23	12	26
Jan	22	16	60	35	3	-14	35	20	37	18	34	5	35	13	28	13	33
Jan	23	28	69	41	19	-15	38	21	34	23	36	20	47	25	32	8	39
Jan	24	22	57	43	45	-1	37	17	39	26	36	24	35	28	40	20	22
Jan	25	-2	43	22	38	20	29	13	49	32	44	22	28	21	39	26	27
Jan	26	-10	28	21	56	27	41	16	43	28	39	23	31	17	43	24	33
Jan	27	-19	33	18	50	25	53	30	42	25	29	16	52	25	45	24	51
Jan	28	-19	37	16	37	18	44	30	45	34	29	14	47	32	43	26	62
Jan	29	-15	33	20	35	22	36	23	39	20	20	-16	42	22	39	26	52
Jan	30	-7	47	20	31	22	30	15	40	17	-3	-16	47	35	50	20	41
Jan	31	4	34	8	36	22	36	15	53	34	0	-14	43	36	41	30	22
Feb	32	17	10	-1	30	9	30	21	52	34	4	-15	51	33	51	27	6
Feb	33	30	22	-2	22	-6	22	6	36	24	5	-11	50	33	44	28	26
Feb	34	27	21	13	-3	-11	27	5	36	22	5	-14	53	33	41	24	33
Feb	35	32	32	3	-2	-20	42	13	32	21	5	-15	39	22	31	24	21
Feb	36	22	29	15	11	-20	28	8	44	18	18	-4	30	21	45	19	10
Feb	37	17	28	14	24	-1	36	7	58	33	13	-1	25	12	54	27	44
Feb	38	13	22	-3	20	5	38	23	44	30	31	1	13	0	60	41	34
Feb	39	2	19	-4	9	-8	38	22	48	28	41	17	12	-2	49	22	32
Feb	40	19	8	-10	12	-11	48	26	51	29	23	-2	7	-7	57	22	34
Feb	41	15	-3	-23	26	1	38	28	52	27	29	7	5	-8	53	33	3
Feb	42	6	28	-10	39	10	45	25	42	25	34	14	8	-12	52	35	36
Feb	43	10	44	18	38	20	61	30	34	23	43	21	27	-5	54	29	47
Feb	44	12	52	34	48	29	54	31	50	25	35	21	29	2	49	27	51
Feb	45	0	60	25	57	33	41	32	48	31	33	17	29	-2	40	28	30
Feb	46	-5	52	na	56	34	45	26	34	25	49	25	45	13	42	27	45
Feb	47	-4	56	33	53	34	42	24	41	16	41	19	54	13	41	19	32
Feb	48	15	49	34	46	38	46	29	36	20	37	14	45	29	43	19	38
Feb	49	30	50	31	48	33	60	36	23	17	40	17	45	14	37	21	34
Feb	50	32	59	34	54	33	49	27	36	18	54	26	44	4	36	18	32

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	31	54	30	60	37	40	19	53	23	46	30	28	4	39	16	35
Feb	52	29	35	26	65	39	48	30	56	35	41	26	44	20	32	22	48
Feb	53	23	42	30	53	24	51	28	46	23	36	27	39	13	39	13	44
Feb	54	20	51	34	31	20	46	30	34	21	35	23	37	25	28	15	19
Feb	55	18	54	31	25	15	46	30	35	21	43	24	55	31	20	10	38
Feb	56	14	52	30	34	9	61	34	34	15	38	18	60	50	23	13	54
Feb	57	32	63	38	49	22	51	39	28	17	32	11	51	36	17	10	55
Feb	58	40	47	27	52	25	44	31	25	10	44	16	37	29	25	10	65
Feb	59	20	41	23	47	28	51	30	32	2	47	27	55	23	37	17	47
Mar	60	2	42	22	50	30	56	31	47	22	40	28	57	42	46	15	54
Mar	61	1	53	21	47	13	59	41	40	28	31	12	48	28	49	26	45
Mar	62	25	46	31	35	12	56	37	44	26	14	3	45	31	60	31	33
Mar	63	19	48	22	28	7	58	35	36	25	18	1	58	30	57	37	46
Mar	64	1	53	30	31	0	35	24	24	18	39	2	49	30	71	40	36
Mar	65	-4	41	24	26	13	27	19	24	14	46	26	47	16	72	45	50
Mar	66	8	42	24	32	13	35	20	24	19	34	22	59	18	58	38	49
Mar	67	15	43	25	29	7	33	19	27	13	40	23	55	43	46	14	45
Mar	68	18	43	21	51	21	47	20	28	3	47	24	45	32	29	12	42
Mar	69	23	43	26	46	28	58	33	26	12	56	24	45	29	41	18	61
Mar	70	14	53	24	59	24	68	37	37	13	44	22	47	35	40	25	45
Mar	71	29	49	25	52	18	58	45	40	14	36	18	38	27	53	24	25
Mar	72	23	53	25	50	25	50	33	43	28	39	20	40	23	59	34	25
Mar	73	18	53	36	59	30	52	37	49	35	49	25	41	22	48	33	18
Mar	74	22	48	31	55	39	39	29	56	34	49	24	37	27	43	23	29
Mar	75	32	58	27	42	30	35	23	36	19	51	24	46	21	35	27	26
Mar	76	20	50	30	45	27	26	19	35	23	55	34	35	24	27	21	22
Mar	77	19	35	21	47	20	21	15	42	23	52	35	25	20	38	22	29
Mar	78	32	40	24	30	18	23	11	39	29	50	32	29	18	56	27	40
Mar	79	28	47	27	20	8	21	6	44	28	57	30	39	21	37	21	53
Mar	80	24	41	23	34	12	32	6	41	29	58	31	62	33	24	19	57
Mar	81	22	50	26	39	14	38	14	47	21	49	23	53	32	29	17	63
Mar	82	23	50	31	38	26	41	11	40	30	37	23	50	28	28	16	51
Mar	83	21	50	27	34	16	44	24	55	28	60	25	68	41	20	19	54
Mar	84	25	53	28	34	12	34	25	57	34	64	38	60	31	29	17	46
Mar	85	22	51	31	44	18	25	20	45	29	48	28	53	30	46	17	35
Mar	86	23	51	35	57	29	38	14	39	22	50	24	69	40	29	13	56
Mar	87	17	44	26	60	29	40	18	32	24	42	21	71	48	13	2	62
Mar	88	22	53	29	63	50	44	26	28	20	22	10	69	47	20	-1	33
Mar	89	18	49	32	51	25	56	30	37	15	38	12	70	37	31	4	40
Mar	90	18	40	27	52	31	44	29	37	16	34	24	65	31	52	29	34
Apr	91	28	61	33	61	34	30	20	36	14	50	29	56	27	43	23	39
Apr	92	29	56	35	54	15	39	15	36	21	57	45	51	26	40	20	52
Apr	93	25	46	27	30	14	31	18	29	24	55	31	36	26	56	19	56
Apr	94	24	38	27	32	14	26	18	36	24	34	25	29	25	56	37	63
Apr	95	22	51	25	27	12	26	16	47	20	35	22	47	25	54	37	56
Apr	96	28	47	27	39	17	32	15	55	29	33	23	61	34	60	35	43
Apr	97	33	41	25	33	18	42	12	63	40	30	21	61	34	61	33	68
Apr	98	30	46	21	32	14	45	11	50	35	54	12	57	34	64	40	73
Apr	99	27	63	28	35	18	45	23	59	30	62	32	56	38	57	29	66
Apr	100	25	57	29	49	18	54	27	54	36	69	39	52	30	42	29	38

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	29	58	31	63	36	41	30	56	32	75	42	48	28	47	30	48
Apr	102	29	69	34	60	39	31	18	51	29	64	41	50	21	35	28	67
Apr	103	26	68	27	63	37	22	13	47	28	59	42	42	9	45	26	69
Apr	104	25	57	23	66	53	34	15	42	31	71	41	26	6	59	24	63
Apr	105	28	70	36	60	37	36	25	48	30	76	46	49	15	68	40	57
Apr	106	33	72	50	37	25	47	24	51	28	73	39	68	32	68	40	60
Apr	107	32	61	38	55	22	51	38	65	31	74	53	48	30	76	47	72
Apr	108	33	68	36	53	28	60	32	63	36	74	53	42	30	79	56	68
Apr	109	44	64	32	29	19	57	37	62	38	70	41	43	33	72	31	55
Apr	110	40	61	37	34	21	62	30	54	40	54	28	42	34	43	28	56
Apr	111	51	55	42	46	22	54	34	49	32	54	29	57	32	55	24	59
Apr	112	52	52	35	65	31	48	38	44	32	52	27	73	40	70	37	46
Apr	113	49	62	42	69	44	56	33	55	25	56	30	73	41	65	37	29
Apr	114	33	76	44	65	43	67	38	64	35	55	29	54	33	68	35	48
Apr	115	34	68	45	59	30	62	44	50	29	46	25	50	33	76	44	52
Apr	116	29	73	38	42	29	45	30	44	28	42	29	42	24	68	46	45
Apr	117	36	71	43	55	32	47	26	29	18	67	30	39	27	69	41	37
Apr	118	37	59	42	58	33	46	20	22	12	74	46	55	36	78	53	49
Apr	119	36	59	42	54	31	40	29	40	20	72	48	58	36	76	44	66
Apr	120	47	58	43	63	32	41	25	37	22	69	38	57	31	79	56	69
May	121	44	76	36	79	46	35	29	40	23	71	41	60	28	72	56	73
May	122	41	74	50	74	48	50	28	38	22	78	50	69	45	72	42	69
May	123	37	51	40	77	57	51	36	44	22	85	59	82	52	49	40	40
May	124	46	49	32	60	38	61	36	51	30	75	43	81	59	56	34	48
May	125	41	66	36	46	28	68	39	48	32	53	36	72	35	65	39	55
May	126	42	57	37	51	27	57	30	43	29	67	34	51	33	67	39	73
May	127	40	56	35	54	36	52	32	47	32	73	40	44	31	70	43	72
May	128	29	44	33	57	37	68	41	43	22	80	56	38	30	78	54	43
May	129	28	48	30	58	37	69	46	52	32	76	56	43	29	78	51	41
May	130	43	58	34	50	34	59	36	71	38	74	55	62	35	76	56	59
May	131	33	57	36	40	30	48	24	62	41	63	40	67	43	71	43	66
May	132	32	46	31	49	34	35	19	58	36	53	33	55	36	75	54	67
May	133	35	50	32	46	39	39	20	69	45	48	33	66	32	75	53	73
May	134	32	63	33	45	40	49	25	64	40	57	37	65	32	79	46	81
May	135	32	66	48	45	40	51	30	77	49	61	38	54	36	83	58	75
May	136	38	61	44	47	40	54	31	82	59	61	40	50	33	77	56	64
May	137	44	59	39	58	42	52	36	75	55	61	41	59	28	68	40	78
May	138	35	59	37	67	39	59	33	68	38	65	44	61	43	59	39	81
May	139	38	62	36	67	49	53	36	68	45	66	42	66	45	65	44	79
May	140	45	72	49	56	38	54	33	67	42	70	43	73	47	62	31	44
May	141	45	67	46	52	38	62	42	79	52	75	52	77	51	43	30	53
May	142	51	53	44	65	38	60	40	67	43	73	49	72	45	55	37	59
May	143	61	52	38	65	46	70	41	56	38	74	42	50	33	65	40	58
May	144	54	59	40	57	39	70	47	80	38	79	52	48	32	61	40	66
May	145	48	63	44	60	36	73	44	76	37	77	52	59	38	58	47	73
May	146	39	65	44	65	41	77	52	45	36	70	44	57	42	65	49	73
May	147	43	71	43	73	45	78	52	54	29	67	42	68	40	64	42	77
May	148	43	59	42	65	44	73	51	48	34	74	41	69	39	64	45	78
May	149	51	58	43	59	32	62	36	58	31	74	49	71	44	61	42	78
May	150	44	71	41	50	35	55	34	70	37	69	49	74	49	67	43	83

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	42	70	55	54	32	50	34	83	52	64	40	77	53	78	46	79
June	152	47	61	46	59	34	61	34	81	64	63	37	77	52	75	43	72
June	153	40	60	42	47	40	64	44	68	36	50	36	79	56	57	40	60
June	154	42	75	46	56	39	66	40	67	36	51	42	81	59	64	40	71
June	155	47	72	47	74	40	66	41	67	46	58	39	73	44	75	43	79
June	156	55	72	48	65	47	57	38	59	45	71	48	68	48	85	55	84
June	157	51	82	51	62	39	63	36	65	48	76	52	77	53	80	59	84
June	158	49	75	44	63	39	69	42	65	44	88	57	71	44	71	53	89
June	159	42	69	52	60	43	70	47	61	46	87	56	67	50	65	53	91
June	160	39	63	46	60	35	74	50	61	45	67	47	64	49	57	50	88
June	161	44	64	42	64	40	77	50	52	37	62	40	62	48	73	51	84
June	162	55	70	49	71	39	83	56	54	40	51	35	74	45	76	49	84
June	163	61	75	51	69	46	79	46	68	44	66	32	74	53	80	54	80
June	164	50	72	48	74	52	58	44	67	41	78	57	71	50	85	55	74
June	165	53	67	42	61	46	66	44	68	42	71	55	74	50	83	56	66
June	166	45	52	36	66	47	68	44	75	51	78	48	76	61	83	56	60
June	167	47	73	35	70	48	66	43	77	53	72	54	79	53	87	60	72
June	168	44	72	46	57	44	63	46	76	54	63	47	89	66	78	48	85
June	169	46	63	40	57	41	79	48	70	52	61	44	89	64	77	54	87
June	170	54	66	48	65	39	74	55	77	45	79	38	83	64	72	53	87
June	171	49	69	48	69	46	74	52	72	49	85	58	78	52	72	52	85
June	172	49	65	46	76	51	86	58	80	56	80	42	62	52	79	53	95
June	173	54	73	47	77	50	84	49	80	54	80	47	75	43	75	52	88
June	174	56	83	56	77	51	89	60	78	55	85	48	77	52	75	39	89
June	175	62	74	49	62	49	87	62	66	46	85	66	88	50	69	47	89
June	176	48	75	47	65	48	84	60	75	51	76	41	85	67	68	44	93
June	177	60	88	55	70	50	70	55	82	54	50	39	82	63	72	43	88
June	178	58	85	57	76	52	67	48	77	59	58	40	87	54	80	49	89
June	179	58	78	49	79	59	62	49	81	50	65	38	78	58	75	56	87
June	180	49	75	41	75	45	77	45	80	55	75	45	78	60	63	49	83
June	181	45	84	58	79	52	79	49	90	57	82	53	78	53	77	46	80
July	182	63	88	59	77	60	82	49	83	54	82	57	74	50	76	55	66
July	183	49	78	53	79	56	78	67	75	51	84	55	82	53	75	50	73
July	184	58	80	51	85	53	68	41	78	57	86	60	90	66	73	57	83
July	185	58	83	62	85	53	65	46	78	55	85	54	90	51	79	53	90
July	186	55	91	61	77	52	84	48	74	48	85	57	73	50	78	53	93
July	187	58	96	55	65	48	94	64	78	55	90	53	72	41	76	53	89
July	188	66	98	69	78	45	91	69	82	55	94	63	78	51	72	48	89
July	189	60	87	49	81	59	92	69	80	62	88	66	75	51	73	49	82
July	190	64	88	50	68	47	96	71	84	54	87	59	78	58	76	61	80
July	191	60	93	67	69	51	81	68	75	56	88	68	79	53	69	53	78
July	192	61	88	62	78	51	77	46	74	53	92	72	68	48	63	45	71
July	193	61	87	58	80	53	88	51	79	52	88	61	69	51	58	37	75
July	194	47	82	55	78	52	91	68	87	58	84	57	82	47	72	40	83
July	195	66	75	60	81	59	95	66	84	61	78	51	83	57	76	51	87
July	196	54	78	56	85	60	89	51	77	54	85	46	83	63	88	51	94
July	197	57	78	54	90	61	74	46	71	52	83	61	83	60	92	62	90
July	198	52	75	55	73	46	82	53	80	57	80	60	81	67	77	56	82
July	199	64	76	51	81	49	86	66	78	48	77	57	79	60	75	55	78
July	200	47	77	60	85	55	94	71	87	61	74	52	73	50	77	52	69

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	61	83	57	90	63	95	66	86	60	83	54	75	51	79	55	67
July	202	51	81	55	89	59	80	60	82	59	84	54	74	50	85	64	71
July	203	48	79	51	92	69	79	60	83	66	86	61	82	57	88	61	82
July	204	54	81	48	88	60	68	58	82	59	80	64	82	55	85	55	88
July	205	63	79	53	76	60	74	55	70	48	74	55	80	57	73	57	83
July	206	68	67	47	75	57	87	61	77	55	79	47	74	49	90	62	81
July	207	51	59	48	73	54	86	68	82	59	90	63	73	52	89	69	85
July	208	44	61	48	72	58	85	56	80	49	88	61	75	50	87	69	88
July	209	60	76	48	73	53	82	57	84	56	78	54	88	59	87	60	91
July	210	56	82	57	72	51	83	56	84	62	74	54	84	52	86	61	87
July	211	65	89	56	80	53	81	55	88	64	58	49	82	51	88	61	85
July	212	60	79	54	85	62	83	60	83	63	68	49	74	50	89	66	93
Aug	213	61	81	56	91	60	87	66	76	58	85	52	74	50	86	61	89
Aug	214	55	85	58	91	63	86	66	75	59	87	65	72	46	83	71	89
Aug	215	55	79	54	83	59	86	63	80	58	82	50	78	56	76	49	75
Aug	216	52	76	58	81	56	85	64	77	57	81	50	77	56	77	43	69
Aug	217	44	76	55	85	60	83	58	82	60	82	55	78	50	85	58	69
Aug	218	45	72	54	84	59	86	58	84	62	77	53	77	59	77	49	83
Aug	219	58	73	49	79	57	92	66	82	61	79	57	74	47	67	51	90
Aug	220	54	72	52	76	53	88	58	81	59	92	61	77	52	72	47	85
Aug	221	50	67	48	69	47	90	68	77	56	74	45	70	53	79	51	71
Aug	222	61	71	46	71	47	87	64	78	51	81	42	71	43	86	61	85
Aug	223	53	78	51	86	58	89	62	84	58	80	56	79	52	82	58	87
Aug	224	45	81	55	80	60	85	72	90	66	65	49	82	58	70	44	89
Aug	225	61	79	59	83	56	77	48	86	60	65	43	66	52	74	50	84
Aug	226	51	79	53	84	60	88	61	89	67	64	40	74	52	79	58	81
Aug	227	48	82	55	83	58	89	60	83	63	73	49	87	57	71	51	90
Aug	228	55	70	55	86	63	82	60	79	56	73	55	81	54	65	44	92
Aug	229	51	76	51	85	62	81	58	86	62	65	40	78	54	62	44	81
Aug	230	51	81	54	85	63	88	64	76	56	70	45	88	61	66	38	78
Aug	231	59	88	59	77	58	84	57	78	55	72	52	94	67	74	44	82
Aug	232	53	91	65	77	57	83	59	82	64	80	53	82	50	81	53	79
Aug	233	46	83	64	82	62	85	60	70	59	84	60	72	49	76	63	88
Aug	234	52	80	57	78	54	78	53	73	50	80	52	69	49	67	46	87
Aug	235	44	74	54	75	48	78	61	77	44	68	49	80	47	65	41	73
Aug	236	53	76	52	69	43	84	65	85	57	70	45	83	55	61	45	78
Aug	237	56	75	53	77	49	86	67	82	66	84	53	83	58	60	52	82
Aug	238	46	71	49	78	55	84	65	88	58	83	62	68	49	53	45	77
Aug	239	45	71	48	77	46	83	60	83	63	77	56	68	49	58	38	81
Aug	240	45	79	52	82	54	91	63	87	61	81	59	77	46	73	42	73
Aug	241	56	86	52	78	57	87	64	86	65	77	52	82	46	78	51	70
Aug	242	51	90	52	82	57	82	58	80	52	89	60	80	56	63	41	76
Aug	243	44	83	42	78	55	86	63	81	48	85	60	80	54	73	46	81
Sept	244	54	81	42	73	45	92	67	79	49	71	52	80	50	73	49	77
Sept	245	43	80	55	72	51	89	68	67	46	71	61	60	47	86	54	76
Sept	246	41	66	45	82	47	77	56	70	44	73	50	67	49	81	61	77
Sept	247	48	85	52	82	60	70	53	71	46	71	47	66	44	69	44	70
Sept	248	40	79	50	83	48	64	51	72	45	80	58	61	43	53	46	72
Sept	249	52	60	43	73	48	71	44	86	58	82	48	43	34	69	41	73
Sept	250	57	69	51	81	46	90	48	81	63	77	55	59	29	56	44	78

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	65	79	50	81	56	88	66	66	42	58	39	67	37	71	40	74
Sept	252	49	83	59	86	57	80	50	63	45	68	38	71	48	71	43	68
Sept	253	34	83	56	87	59	77	41	70	49	71	38	60	43	63	48	75
Sept	254	52	78	49	61	43	60	51	64	46	71	53	65	44	52	36	82
Sept	255	55	86	60	58	41	59	40	72	46	69	48	58	43	66	34	74
Sept	256	47	84	55	53	42	63	43	67	56	68	44	61	39	76	42	47
Sept	257	40	72	41	46	34	72	48	63	43	79	50	57	43	78	50	58
Sept	258	45	68	43	49	31	63	46	61	35	81	63	60	42	71	50	57
Sept	259	43	59	33	50	40	80	41	61	37	88	53	64	50	67	44	58
Sept	260	32	69	39	57	36	76	51	73	45	83	44	61	47	52	39	77
Sept	261	46	78	49	64	39	56	37	81	50	80	56	58	47	55	34	71
Sept	262	40	81	55	58	40	50	24	85	58	69	34	60	41	60	35	63
Sept	263	52	73	45	60	33	35	21	81	63	58	33	70	45	60	35	56
Sept	264	44	71	42	75	43	43	28	78	49	60	42	64	44	64	36	64
Sept	265	41	67	41	70	56	52	23	71	44	48	32	58	39	73	42	69
Sept	266	38	63	36	65	49	71	38	59	34	36	25	70	40	78	46	59
Sept	267	41	65	43	62	42	70	51	51	25	38	22	68	51	75	49	69
Sept	268	35	75	48	70	48	75	48	27	21	38	22	60	42	79	47	71
Sept	269	33	56	35	70	47	84	51	44	20	62	27	59	36	82	58	78
Sept	270	41	64	30	67	48	78	60	48	32	60	26	59	38	67	45	69
Sept	271	40	83	48	56	39	71	39	39	23	27	17	55	42	58	40	68
Sept	272	55	66	46	40	32	63	43	36	23	30	19	56	33	62	39	61
Sept	273	51	56	38	36	30	75	41	50	23	35	15	59	32	72	37	58
Oct	274	55	65	36	43	31	56	38	61	29	57	21	51	37	70	53	69
Oct	275	46	80	49	57	36	58	45	72	43	55	38	44	33	69	34	61
Oct	276	37	72	47	66	40	53	33	71	42	49	33	43	33	78	49	61
Oct	277	39	53	35	57	34	60	34	72	45	40	30	54	35	66	50	49
Oct	278	45	43	32	51	32	54	38	65	49	54	30	51	38	56	34	52
Oct	279	45	60	29	48	26	70	36	62	46	57	35	67	38	55	36	54
Oct	280	44	73	48	63	35	63	39	60	46	51	30	64	47	68	30	60
Oct	281	56	69	38	58	30	60	33	57	45	30	18	53	38	60	42	65
Oct	282	54	57	33	33	29	74	43	60	37	35	16	62	33	44	21	71
Oct	283	47	67	37	30	29	65	47	59	41	53	16	54	28	37	21	62
Oct	284	38	72	51	35	29	50	30	66	44	55	34	28	19	58	24	60
Oct	285	28	60	41	44	27	42	29	75	49	53	35	36	12	69	35	66
Oct	286	47	44	29	56	34	53	31	71	53	44	30	45	21	63	42	76
Oct	287	50	44	32	61	40	50	33	63	42	46	31	52	35	43	36	71
Oct	288	35	52	32	58	43	36	28	52	34	59	37	61	30	53	29	71
Oct	289	30	53	39	64	44	46	34	38	29	66	37	66	37	46	27	59
Oct	290	25	54	27	64	36	53	33	38	25	61	38	70	39	61	35	62
Oct	291	24	54	30	39	28	53	34	48	19	58	38	70	44	43	28	52
Oct	292	23	64	42	30	22	45	28	45	23	68	36	62	40	34	25	47
Oct	293	39	60	25	47	23	63	33	36	18	67	48	59	39	35	22	50
Oct	294	38	33	18	57	27	63	38	30	18	68	46	56	41	58	22	53
Oct	295	40	31	17	59	34	69	41	28	20	63	34	48	42	47	32	60
Oct	296	30	42	12	66	40	65	45	35	18	51	33	55	42	44	26	61
Oct	297	20	42	21	60	43	48	32	46	20	57	35	55	37	57	21	50
Oct	298	21	44	24	62	41	62	31	47	30	67	42	56	35	60	41	49
Oct	299	18	62	38	62	46	72	46	54	29	53	37	63	40	55	33	49
Oct	300	17	64	39	55	31	76	48	59	41	65	40	69	40	50	29	65

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	21	65	43	39	29	62	33	53	19	71	53	61	38	65	44	49
Oct	302	16	65	43	44	31	59	41	42	16	61	31	56	33	68	49	31
Oct	303	31	66	35	50	29	64	23	51	26	58	34	63	39	66	39	48
Oct	304	34	65	30	45	31	64	43	48	18	55	33	44	26	65	42	62
Nov	305	41	58	37	39	30	65	41	46	11	43	27	45	22	52	46	60
Nov	306	41	61	36	36	21	66	41	35	8	46	33	55	26	53	41	65
Nov	307	42	66	39	27	16	61	40	60	23	52	33	43	35	54	38	58
Nov	308	36	59	39	31	10	68	44	57	38	67	38	54	30	50	35	55
Nov	309	36	47	31	48	19	58	36	43	32	59	27	56	35	62	31	43
Nov	310	45	57	32	58	34	62	34	45	31	35	22	50	24	63	35	44
Nov	311	50	57	39	45	29	60	31	61	27	37	25	24	16	51	36	57
Nov	312	44	48	28	39	28	33	26	54	38	32	10	18	11	45	27	43
Nov	313	38	58	33	34	19	36	19	46	28	14	5	11	-4	56	28	47
Nov	314	37	59	40	44	24	45	22	34	23	18	3	15	-14	60	34	33
Nov	315	39	65	37	39	18	45	28	42	12	27	6	29	5	59	31	37
Nov	316	34	62	38	30	4	44	33	47	26	25	4	13	-12	57	41	48
Nov	317	26	61	41	33	12	38	28	58	27	19	2	40	-6	53	35	40
Nov	318	20	62	37	36	8	37	30	62	40	39	15	46	25	47	38	42
Nov	319	18	52	30	40	22	46	29	52	30	42	17	40	16	47	24	55
Nov	320	17	55	32	49	23	55	33	33	22	48	25	41	30	36	15	37
Nov	321	12	65	40	55	30	54	37	47	19	35	19	44	27	31	18	31
Nov	322	11	50	25	55	37	45	35	43	24	21	4	43	11	43	19	35
Nov	323	26	29	15	50	30	36	27	50	26	9	-3	47	32	41	34	28
Nov	324	27	42	18	39	25	37	23	43	26	19	-3	51	26	61	30	34
Nov	325	22	47	26	34	17	24	16	52	27	21	-4	57	41	58	35	41
Nov	326	27	52	31	19	9	22	14	53	34	9	-9	41	28	41	32	39
Nov	327	28	44	29	23	5	24	9	46	25	16	-12	39	23	42	24	49
Nov	328	16	40	30	46	11	35	18	62	33	24	4	60	33	39	24	54
Nov	329	11	34	22	35	23	44	21	61	48	30	0	49	22	41	24	52
Nov	330	15	30	18	48	18	22	8	50	24	9	-12	52	19	30	26	36
Nov	331	24	34	13	62	25	19	4	25	15	25	-14	55	28	31	18	28
Nov	332	15	36	17	48	32	22	10	24	14	19	-3	53	34	42	18	19
Nov	333	31	44	19	50	30	21	5	42	14	5	-8	47	33	40	19	39
Nov	334	23	30	19	47	31	18	3	36	30	-6	-11	33	19	43	19	30
Dec	335	20	31	17	50	24	37	5	38	25	-5	-15	48	18	49	22	34
Dec	336	2	40	24	26	19	35	11	28	12	30	-15	42	18	45	33	52
Dec	337	-1	40	15	46	22	39	24	14	2	48	22	26	15	53	27	62
Dec	338	36	44	20	49	31	29	13	23	2	35	26	43	11	63	38	44
Dec	339	34	57	29	43	29	21	7	32	5	50	28	42	25	57	40	55
Dec	340	8	55	42	33	12	29	3	28	13	45	32	34	18	57	32	58
Dec	341	7	50	33	23	2	25	14	55	13	37	24	38	18	49	38	44
Dec	342	11	45	32	27	1	29	10	58	39	32	19	38	17	38	27	32
Dec	343	13	57	28	41	12	45	22	55	33	25	10	17	-2	40	23	29
Dec	344	16	56	39	30	11	51	31	46	32	15	1	31	-2	50	29	34
Dec	345	22	41	26	29	7	41	28	48	31	23	-6	32	25	35	24	37
Dec	346	na	38	16	52	16	43	23	43	12	14	-6	36	15	26	18	34
Dec	347	32	28	14	45	28	30	19	26	8	20	-5	45	27	18	11	43
Dec	348	20	39	7	37	20	25	14	26	9	35	16	50	24	15	4	52
Dec	349	37	33	16	38	14	19	5	37	16	34	21	44	22	21	2	36
Dec	350	36	27	12	48	24	20	-4	54	31	33	22	44	25	35	7	15

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1980	1981	1981	1982	1982	1983	1983	1984	1984	1985	1985	1986	1986	1987	1987	1988
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	44	22	12	49	33	-3	-18	32	-4	30	11	35	20	43	23	30
Dec	352	28	30	10	37	17	6	-11	24	-9	32	10	51	20	43	18	46
Dec	353	2	53	15	38	24	6	-7	26	8	32	17	39	19	30	14	57
Dec	354	-4	46	33	47	21	-2	-22	31	14	35	21	41	21	25	12	46
Dec	355	5	46	25	52	33	-11	-25	42	15	48	29	48	20	35	18	31
Dec	356	na	25	17	49	31	-7	-22	31	16	44	32	54	30	31	16	45
Dec	357	32	21	11	48	25	-14	-28	36	19	44	21	42	30	21	13	39
Dec	358	3	29	14	39	10	-10	-33	33	13	24	5	41	28	16	4	32
Dec	359	-10	28	15	31	10	18	-10	19	-9	43	11	41	20	21	1	28
Dec	360	18	24	14	46	18	17	4	46	18	43	17	44	21	40	11	21
Dec	361	42	22	8	31	2	15	1	44	32	21	12	44	26	23	13	12
Dec	362	50	24	3	18	1	6	-8	45	34	28	14	42	28	44	13	17
Dec	363	32	28	3	20	11	26	1	40	1	46	22	51	25	50	26	25
Dec	364	28	27	17	23	11	46	19	35	3	41	22	46	29	43	2	29
Dec	365	41	23	8	39	19	42	29	29	-5	36	20	30	22	10	-4	36
29 Feb	366	34							29	2							39

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Jan	1	2	29	11	44	26	34	0	43	18	46	17	42	26	26	1	23
Jan	2	10	33	16	42	30	19	-1	49	29	45	18	36	23	19	2	22
Jan	3	4	45	20	32	16	18	4	41	27	19	10	37	23	20	-6	32
Jan	4	-9	61	35	33	17	29	3	43	28	27	3	40	19	31	-1	24
Jan	5	-6	47	29	34	21	17	1	46	26	20	0	42	20	33	15	9
Jan	6	-2	44	15	52	25	21	-9	49	32	28	2	20	-9	35	3	23
Jan	7	8	32	-9	46	27	44	20	40	13	22	4	21	-7	36	3	43
Jan	8	-8	17	-8	43	34	31	11	28	10	20	7	31	14	44	18	45
Jan	9	-8	26	8	46	27	43	16	36	21	8	1	38	21	33	17	45
Jan	10	18	37	19	51	29	36	23	53	29	37	3	36	23	53	39	43
Jan	11	22	34	15	29	15	41	20	44	30	26	6	43	24	46	35	43
Jan	12	-6	26	12	43	11	49	29	31	18	6	-6	35	27	41	28	57
Jan	13	13	51	19	53	32	43	37	21	16	14	-8	32	26	42	24	54
Jan	14	22	36	18	47	33	38	30	23	-1	32	2	28	13	53	27	43
Jan	15	36	27	13	43	30	35	25	26	-9	45	19	42	12	50	32	50
Jan	16	22	40	24	40	29	34	24	41	21	34	18	40	1	38	12	45
Jan	17	17	40	31	30	13	36	27	26	8	41	12	2	-11	23	11	36
Jan	18	13	49	27	38	9	51	29	33	15	38	17	30	-9	29	19	8
Jan	19	11	42	20	37	18	41	13	46	28	48	27	34	14	39	20	20
Jan	20	8	55	14	42	13	15	10	58	35	47	27	38	9	33	17	28
Jan	21	17	57	31	41	28	29	11	51	27	42	28	53	28	27	12	37
Jan	22	18	50	29	51	32	32	19	35	23	45	19	53	35	28	13	20
Jan	23	22	29	17	39	26	20	10	31	19	31	14	56	30	39	18	26
Jan	24	8	23	13	27	16	20	5	43	26	28	8	46	31	43	26	26
Jan	25	8	28	8	38	17	18	-5	42	23	45	20	45	26	51	22	17
Jan	26	24	44	15	43	23	26	5	45	30	44	32	41	25	57	33	19
Jan	27	19	57	32	25	7	27	13	46	20	51	33	27	14	38	38	23
Jan	28	36	38	18	38	17	24	-3	56	33	40	17	26	18	31	22	17
Jan	29	35	46	23	35	25	18	-13	47	34	43	13	21	14	39	18	-1
Jan	30	22	59	37	38	8	29	12	48	32	55	22	14	1	47	29	7
Jan	31	-7	55	-5	38	1	50	21	62	42	57	35	15	4	49	36	8
Feb	32	-13	17	-22	27	-7	59	29	66	38	54	35	15	7	52	41	2
Feb	33	-2	-22	-30	35	14	58	33	53	35	40	22	21	9	44	30	1
Feb	34	3	-18	-32	43	20	47	34	40	30	33	20	23	6	34	27	12
Feb	35	2	-12	-30	49	29	50	32	51	30	47	20	28	5	43	27	41
Feb	36	-8	2	-16	41	19	58	30	50	30	55	27	36	16	36	25	48
Feb	37	-2	9	-3	48	24	44	30	42	22	57	30	28	-8	43	26	49
Feb	38	20	15	1	39	22	58	26	33	19	44	28	-2	-13	36	26	49
Feb	39	20	12	0	29	15	55	31	32	19	46	24	-5	-19	29	19	54
Feb	40	-6	35	-1	36	13	44	33	36	20	46	24	33	-17	59	33	60
Feb	41	-8	37	19	46	31	57	27	44	21	24	7	34	18	41	23	53
Feb	42	-7	37	18	53	38	55	33	28	7	20	6	27	14	29	-7	42
Feb	43	33	39	14	47	16	52	34	46	18	36	15	30	10	6	-11	51
Feb	44	30	25	13	16	-1	39	29	49	27	29	18	44	19	6	-12	50
Feb	45	13	21	10	12	-3	29	10	41	32	30	7	41	25	35	-1	47
Feb	46	18	27	6	8	1	47	7	46	28	7	-7	49	17	31	2	25
Feb	47	22	27	3	26	-6	50	38	45	30	1	-14	46	32	37	15	51
Feb	48	19	8	-6	35	11	40	21	32	23	14	-14	55	33	50	31	48
Feb	49	26	26	-1	33	11	25	20	34	1	41	1	49	34	44	34	48
Feb	50	22	31	15	41	10	36	15	46	20	23	9	34	18	55	28	50

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Feb	51	26	37	21	55	24	51	33	41	21	43	9	28	17	51	40	49
Feb	52	26	28	19	42	30	46	30	49	27	12	1	27	5	63	44	56
Feb	53	12	37	9	38	28	45	19	50	30	22	-3	20	12	48	37	53
Feb	54	7	50	26	44	33	45	20	43	22	20	6	34	5	41	24	36
Feb	55	8	53	24	38	27	24	12	38	11	21	1	29	-5	62	30	50
Feb	56	28	45	28	50	26	24	13	43	29	20	2	11	-14	59	38	36
Feb	57	38	28	18	40	26	36	14	49	32	33	5	45	7	47	30	10
Feb	58	28	28	10	32	16	39	23	56	38	45	17	46	27	30	5	2
Feb	59	27	12	2	47	18	49	25	56	41	52	22	35	28	11	0	7
Mar	60	24	2	-8	60	29	37	3	64	35	49	22	48	33	9	-10	25
Mar	61	28	9	-5	48	27	29	1	60	36	44	27	54	35	25	-2	22
Mar	62	19	-3	-12	53	25	48	28	59	36	31	25	59	40	35	13	37
Mar	63	20	10	-13	51	28	53	40	64	37	46	13	58	36	22	5	29
Mar	64	28	38	-6	47	31	50	21	54	41	43	26	47	35	18	-5	13
Mar	65	22	54	23	32	21	28	15	42	35	49	30	40	24	19	-5	12
Mar	66	29	53	33	33	21	32	16	44	36	48	35	27	12	19	-5	6
Mar	67	23	55	27	53	24	32	22	49	37	48	26	33	11	45	11	24
Mar	68	21	66	40	54	26	50	20	43	22	42	25	39	13	35	22	48
Mar	69	33	72	49	59	32	56	40	29	6	29	17	52	22	58	47	63
Mar	70	25	60	40	62	35	56	32	38	12	23	13	48	33	66	42	58
Mar	71	10	57	34	49	27	36	21	38	31	15	7	44	26	57	30	54
Mar	72	1	56	34	34	21	40	15	46	30	30	4	56	35	47	30	38
Mar	73	-5	38	8	29	20	46	19	47	35	47	13	53	37	56	30	47
Mar	74	2	34	13	33	22	40	24	47	27	50	33	51	28	67	36	55
Mar	75	4	18	8	34	23	42	23	61	29	45	7	68	41	56	32	49
Mar	76	8	12	4	31	24	46	26	50	38	29	2	58	31	37	28	33
Mar	77	9	44	2	34	20	47	27	48	29	44	24	57	29	57	27	26
Mar	78	14	50	20	58	17	60	32	38	26	43	29	62	35	54	38	26
Mar	79	32	32	2	61	37	51	32	37	24	50	21	40	24	51	33	50
Mar	80	40	46	20	50	31	38	31	45	29	42	21	55	30	67	38	41
Mar	81	38	51	31	32	6	31	28	32	16	52	23	45	28	58	35	51
Mar	82	31	44	27	11	3	45	27	47	15	65	35	36	16	54	24	41
Mar	83	26	45	27	23	-1	53	28	53	28	68	40	32	6	50	38	17
Mar	84	30	63	34	38	9	52	31	42	28	66	41	37	22	44	25	12
Mar	85	26	59	42	45	14	51	26	46	24	71	41	30	21	31	15	37
Mar	86	29	50	37	45	26	36	16	51	26	65	46	22	12	20	16	26
Mar	87	26	54	33	38	24	42	25	60	35	47	32	30	9	22	14	24
Mar	88	21	49	32	45	25	39	27	52	37	34	29	25	14	25	13	28
Mar	89	18	36	22	54	27	48	27	42	20	33	29	49	13	30	10	41
Mar	90	15	53	26	57	31	57	32	54	31	30	24	53	27	43	16	43
Apr	91	13	47	28	47	27	66	37	45	20	37	24	55	30	56	28	61
Apr	92	21	53	33	60	29	65	41	44	15	44	29	44	30	47	35	66
Apr	93	29	35	25	62	42	56	41	54	24	47	29	57	26	42	30	36
Apr	94	37	34	25	53	33	63	36	67	44	58	30	53	20	59	24	34
Apr	95	33	40	25	38	17	76	42	71	43	56	44	33	13	54	42	47
Apr	96	26	41	34	43	17	72	45	62	43	46	30	42	24	59	31	57
Apr	97	26	54	32	49	29	60	32	47	29	35	27	53	31	55	31	54
Apr	98	44	33	17	61	36	42	31	46	28	48	25	42	27	50	31	56
Apr	99	26	30	12	56	25	42	26	45	28	59	37	50	25	30	11	71
Apr	100	24	39	9	28	12	51	30	57	31	49	31	46	30	24	15	76

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
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Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Apr	101	23	44	19	36	11	44	25	53	33	50	26	48	25	22	14	67
Apr	102	30	53	24	49	21	26	20	41	17	36	29	60	25	50	22	42
Apr	103	41	57	33	46	31	29	20	41	15	34	29	56	39	63	35	30
Apr	104	34	51	32	46	36	31	18	67	36	35	27	50	31	64	32	37
Apr	105	27	69	32	58	30	42	24	62	49	45	23	50	23	43	26	51
Apr	106	32	62	34	53	24	42	24	59	38	49	29	69	41	40	29	66
Apr	107	44	55	19	51	16	44	33	56	38	57	32	74	44	38	28	61
Apr	108	32	56	27	69	31	41	33	63	44	54	37	70	50	32	24	55
Apr	109	26	67	38	63	43	41	28	57	33	48	22	68	40	39	17	52
Apr	110	33	69	49	67	41	47	26	33	27	34	23	67	51	43	28	50
Apr	111	33	81	46	73	51	51	30	27	23	57	19	67	44	37	28	45
Apr	112	27	80	57	73	52	55	32	43	19	61	39	78	51	44	24	38
Apr	113	22	73	41	71	51	61	33	50	23	57	35	68	52	42	31	60
Apr	114	19	65	41	66	43	64	42	47	32	49	35	65	43	46	27	68
Apr	115	36	55	38	47	40	65	41	39	31	52	29	57	27	40	29	63
Apr	116	21	48	39	51	32	60	32	46	32	63	36	27	16	33	18	49
Apr	117	10	41	25	40	28	40	29	57	27	60	37	25	12	47	23	43
Apr	118	22	27	23	37	24	40	29	74	44	51	34	26	19	43	30	40
Apr	119	31	33	23	28	16	37	27	68	50	53	31	29	20	37	27	46
Apr	120	48	30	19	31	19	37	26	75	47	50	30	43	27	35	29	44
May	121	45	48	18	49	23	47	28	81	59	46	26	51	31	39	27	46
May	122	33	55	28	54	28	45	29	71	35	60	31	51	33	44	34	50
May	123	31	50	34	55	37	36	24	62	32	65	37	54	34	45	36	50
May	124	31	48	36	53	33	40	27	64	42	69	51	60	34	54	30	41
May	125	26	46	31	56	36	45	27	64	38	65	45	54	38	55	44	48
May	126	41	67	26	75	39	52	30	68	43	57	44	48	40	50	41	54
May	127	41	73	45	58	28	52	38	77	50	59	40	67	34	58	41	65
May	128	31	64	44	43	23	71	43	80	49	51	33	64	46	53	42	60
May	129	32	64	37	45	24	72	52	74	52	49	33	65	39	42	31	42
May	130	37	72	49	54	33	69	49	71	45	61	33	75	47	56	36	37
May	131	44	79	54	51	39	71	48	60	34	67	38	67	44	64	40	53
May	132	47	69	46	54	33	66	47	61	41	71	42	76	46	60	45	51
May	133	49	46	38	48	26	69	43	56	33	74	46	73	46	48	29	62
May	134	47	56	40	46	34	70	46	55	36	70	56	57	40	52	27	67
May	135	43	61	39	54	43	63	45	66	44	63	41	68	38	70	37	69
May	136	43	60	44	49	35	49	41	71	46	64	37	80	54	64	40	79
May	137	40	61	40	59	34	51	44	71	36	63	46	77	61	55	34	76
May	138	62	74	43	57	43	65	42	69	32	58	37	73	52	62	39	70
May	139	43	70	37	67	36	76	49	83	54	53	36	75	48	56	44	61
May	140	41	64	33	61	50	77	55	84	59	61	31	73	50	57	35	54
May	141	40	70	46	62	43	75	54	82	62	74	49	67	40	67	40	62
May	142	38	71	46	68	51	71	51	77	42	64	46	78	50	59	32	58
May	143	40	81	54	70	46	65	47	48	34	56	41	74	53	47	32	51
May	144	42	78	42	67	48	62	47	56	41	49	35	67	45	47	31	43
May	145	51	53	36	61	39	71	48	61	44	65	36	61	47	44	33	42
May	146	51	56	33	60	40	67	47	55	28	71	42	63	39	51	40	40
May	147	51	75	44	63	42	54	43	50	29	68	50	76	49	47	41	36
May	148	50	72	46	65	48	58	40	61	35	62	49	73	53	52	40	38
May	149	50	69	40	59	47	69	44	62	34	67	47	73	46	57	37	60
May	150	61	44	36	63	48	70	47	65	41	67	44	67	43	65	40	67

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
May	151	58	50	35	73	51	64	44	64	45	66	43	65	42	68	40	59
June	152	46	66	37	70	42	64	50	53	44	64	52	65	50	72	47	63
June	153	47	63	45	60	39	64	46	57	42	53	41	59	48	69	47	59
June	154	49	58	41	58	39	70	51	69	43	42	36	78	45	66	52	64
June	155	48	61	38	80	47	60	46	68	45	55	33	78	54	66	49	73
June	156	60	72	45	69	43	64	46	63	40	61	44	72	51	67	50	70
June	157	64	77	47	65	41	71	51	60	41	59	43	78	55	73	50	65
June	158	64	71	49	68	49	71	55	57	37	51	41	68	56	65	50	69
June	159	67	64	41	69	46	70	48	62	46	51	37	65	44	41	32	81
June	160	63	69	48	78	50	69	48	68	40	64	46	62	43	37	32	84
June	161	51	77	51	83	59	71	42	71	46	69	46	64	44	53	32	76
June	162	66	74	49	76	52	83	58	76	54	77	57	73	45	64	35	83
June	163	62	64	45	65	47	78	54	77	57	74	52	73	52	75	46	76
June	164	54	51	36	64	41	73	62	73	52	64	39	84	49	82	51	76
June	165	49	60	39	59	42	74	48	81	58	64	44	82	49	82	58	83
June	166	45	76	43	52	46	67	41	66	51	75	52	62	48	87	63	76
June	167	42	83	62	66	45	80	47	59	43	67	50	61	40	87	68	72
June	168	55	78	49	70	47	72	51	64	41	51	42	67	51	82	61	84
June	169	56	75	46	82	50	70	47	62	46	48	42	79	53	74	54	78
June	170	68	91	54	71	50	76	52	71	50	68	42	82	67	79	49	64
June	171	60	88	54	69	48	72	52	71	46	78	51	79	55	76	57	71
June	172	65	66	40	66	46	66	54	68	49	80	54	74	59	77	53	70
June	173	68	57	39	67	46	69	54	76	50	77	54	70	56	65	49	61
June	174	62	60	38	81	47	72	49	74	48	69	39	78	52	64	45	67
June	175	61	49	44	85	63	83	58	76	52	55	39	80	57	60	47	79
June	176	69	69	40	84	61	85	70	71	52	63	44	77	60	64	41	78
June	177	60	69	39	87	62	75	48	68	46	76	50	89	43	72	43	85
June	178	68	80	54	91	69	71	48	67	55	78	54	86	51	73	51	83
June	179	67	84	57	83	55	77	55	76	49	80	53	76	54	65	43	81
June	180	59	80	56	82	62	80	52	74	56	73	49	86	53	53	42	75
June	181	58	85	60	88	62	75	60	70	49	66	45	79	62	58	32	81
July	182	46	83	66	89	74	69	51	72	50	69	53	76	60	69	45	80
July	183	45	79	62	95	71	71	54	59	43	74	51	87	52	78	51	84
July	184	54	83	62	92	58	73	53	62	50	71	58	84	53	69	50	87
July	185	63	95	62	74	58	83	51	66	39	62	46	74	51	61	50	89
July	186	69	91	62	83	51	78	57	74	30	62	48	74	49	66	48	83
July	187	64	80	55	91	66	83	56	76	52	65	47	67	50	77	47	75
July	188	64	89	64	82	63	77	50	78	64	67	42	51	46	82	47	74
July	189	51	95	61	72	49	74	50	74	57	64	48	66	42	80	52	69
July	190	55	89	62	73	59	76	54	75	49	69	44	79	50	89	62	68
July	191	53	78	55	75	54	76	56	67	47	65	50	88	58	87	55	82
July	192	51	81	54	69	50	73	52	59	44	60	38	76	51	86	65	77
July	193	53	79	58	67	42	71	48	67	50	71	50	73	55	87	60	70
July	194	63	74	58	79	43	79	49	59	49	65	44	65	50	87	60	70
July	195	54	67	56	75	56	90	65	70	49	67	42	68	46	71	54	73
July	196	72	64	50	71	51	88	62	78	51	74	55	77	51	70	53	83
July	197	57	76	54	87	55	84	59	73	48	70	53	67	48	65	47	82
July	198	62	70	55	81	56	90	58	65	48	66	48	79	49	71	47	79
July	199	55	66	53	80	64	84	58	67	46	65	52	87	60	78	52	83
July	200	50	75	52	74	55	84	54	79	51	66	44	76	53	71	56	84

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		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
July	201	44	80	55	67	51	81	59	75	49	76	52	67	52	73	53	81
July	202	44	85	55	61	44	87	66	57	47	77	52	73	52	75	56	75
July	203	51	82	63	64	44	81	55	62	51	73	50	82	52	68	50	75
July	204	61	85	60	74	47	69	56	61	44	68	53	78	51	73	52	74
July	205	62	81	58	79	56	71	52	74	50	63	49	74	55	77	51	70
July	206	49	83	63	78	56	77	47	78	53	71	48	75	53	74	52	75
July	207	57	80	59	86	59	72	59	72	54	71	54	70	45	87	54	71
July	208	59	86	57	83	52	73	55	73	50	64	47	76	45	83	58	75
July	209	59	84	62	73	52	82	55	81	57	73	47	83	53	80	55	76
July	210	65	82	55	70	47	84	59	76	52	87	60	82	60	95	67	74
July	211	61	83	53	72	48	82	62	71	50	86	71	86	57	84	56	72
July	212	64	86	59	81	56	86	57	65	49	80	52	83	63	65	45	75
Aug	213	68	83	60	80	57	78	61	77	49	71	50	82	55	81	50	83
Aug	214	64	82	66	76	53	71	54	82	52	64	48	77	59	84	55	88
Aug	215	54	83	62	73	53	66	45	75	48	57	46	75	55	77	51	84
Aug	216	51	78	52	71	55	72	54	71	48	66	41	73	54	75	56	76
Aug	217	51	75	51	72	51	76	53	69	54	67	47	82	59	80	53	81
Aug	218	53	71	50	78	54	82	54	76	45	65	51	90	60	89	59	80
Aug	219	61	71	46	89	57	75	58	79	55	77	51	84	57	93	59	74
Aug	220	59	79	53	84	61	77	51	87	55	80	62	80	56	85	61	80
Aug	221	49	78	55	86	55	78	53	90	55	83	52	78	64	75	44	81
Aug	222	53	80	55	80	56	78	54	84	56	85	57	78	58	80	53	78
Aug	223	60	77	58	64	53	77	58	74	52	79	64	79	58	85	61	87
Aug	224	62	78	57	68	51	75	57	72	50	67	49	81	57	80	58	92
Aug	225	62	80	56	79	51	79	53	71	42	78	51	78	59	74	58	84
Aug	226	52	74	50	77	56	86	58	72	49	75	51	80	54	73	42	78
Aug	227	56	76	53	81	56	78	56	78	49	75	54	85	61	85	60	72
Aug	228	66	84	55	85	59	71	54	83	55	83	49	84	58	87	63	79
Aug	229	66	85	55	80	60	76	49	79	56	79	51	82	55	87	67	86
Aug	230	55	77	63	75	53	76	50	73	51	69	50	81	50	82	47	80
Aug	231	57	69	49	75	54	86	61	79	53	73	51	74	47	78	42	70
Aug	232	57	70	47	78	52	84	55	80	56	71	54	75	46	82	52	87
Aug	233	57	76	54	79	64	88	57	80	57	81	60	86	57	88	63	80
Aug	234	57	81	52	79	63	84	58	78	51	73	51	88	65	83	63	75
Aug	235	49	86	57	76	56	81	55	74	53	75	54	80	53	83	62	80
Aug	236	47	81	63	80	56	88	67	56	40	84	53	87	58	82	65	85
Aug	237	49	70	50	82	57	90	61	41	36	79	50	80	69	77	61	78
Aug	238	47	66	44	84	56	87	66	45	36	62	50	90	58	77	58	76
Aug	239	56	82	54	82	54	92	64	57	40	66	42	85	60	82	65	84
Aug	240	40	70	45	78	55	87	70	71	41	69	47	76	49	76	59	83
Aug	241	37	75	44	84	53	82	54	79	47	66	50	82	55	87	62	72
Aug	242	42	89	61	93	57	83	60	73	41	56	39	69	47	83	51	75
Aug	243	59	83	53	78	53	83	65	62	35	70	39	47	39	76	47	80
Sept	244	53	72	44	83	52	88	65	68	44	69	45	49	42	86	49	71
Sept	245	49	87	57	86	59	88	65	67	47	60	42	65	41	82	54	65
Sept	246	52	80	46	86	65	75	49	69	50	73	39	77	55	84	62	76
Sept	247	46	74	40	78	56	73	51	82	49	67	47	70	48	87	58	87
Sept	248	45	84	54	81	60	71	50	77	53	55	42	67	47	81	58	85
Sept	249	47	77	45	77	56	85	59	72	49	54	38	74	46	75	44	70
Sept	250	52	60	43	80	53	83	59	60	39	59	38	83	51	57	44	70

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Sept	251	57	56	45	83	57	69	57	50	36	71	40	83	54	65	44	77
Sept	252	42	48	36	79	56	66	50	66	33	64	50	89	62	67	45	78
Sept	253	48	46	28	76	53	64	53	61	40	68	36	78	57	78	53	72
Sept	254	60	45	23	84	59	73	50	69	34	80	53	77	48	69	50	66
Sept	255	39	52	28	88	54	67	51	77	53	69	42	80	62	73	48	72
Sept	256	37	61	29	82	56	66	49	77	58	43	24	74	55	71	53	74
Sept	257	35	71	44	73	37	65	47	73	42	55	25	75	55	74	46	70
Sept	258	40	79	57	71	51	47	38	71	33	72	44	64	44	81	56	62
Sept	259	46	82	49	77	52	62	41	83	58	62	39	65	42	72	43	74
Sept	260	42	82	56	72	55	55	37	69	44	46	38	71	43	68	46	62
Sept	261	49	77	64	65	47	46	27	67	42	50	40	75	52	58	49	51
Sept	262	42	72	46	60	51	62	27	55	30	46	42	73	50	55	31	51
Sept	263	31	64	46	55	44	78	45	76	43	68	38	70	50	33	29	46
Sept	264	35	53	40	64	37	76	41	77	49	62	44	64	31	31	18	57
Sept	265	39	52	42	53	34	51	34	65	49	52	35	57	32	53	22	59
Sept	266	43	67	34	71	33	48	32	78	42	57	34	68	42	51	38	53
Sept	267	38	74	51	78	51	61	35	85	53	63	37	71	42	54	30	53
Sept	268	46	69	41	80	51	62	48	82	58	61	41	72	44	66	34	46
Sept	269	47	82	49	78	55	71	41	77	43	53	35	73	49	69	40	36
Sept	270	48	82	54	66	48	66	43	55	39	66	41	74	44	71	46	46
Sept	271	44	74	53	61	54	77	49	56	42	58	39	81	47	77	48	66
Sept	272	33	79	53	57	38	70	53	67	31	67	35	73	49	72	50	72
Sept	273	37	84	60	66	42	67	41	79	47	66	53	64	47	56	44	79
Oct	274	39	76	36	76	41	77	53	81	49	53	33	57	41	58	39	74
Oct	275	38	39	27	67	45	69	41	83	51	57	32	49	42	48	36	50
Oct	276	40	53	30	50	35	50	33	82	50	74	45	42	32	58	30	67
Oct	277	38	61	36	74	43	35	20	80	54	69	43	53	36	52	33	75
Oct	278	32	55	39	75	64	36	23	71	58	77	51	76	47	36	31	77
Oct	279	31	48	33	68	24	60	21	61	40	77	55	64	37	45	30	62
Oct	280	34	58	35	33	23	73	48	47	31	70	29	50	33	54	30	64
Oct	281	34	64	45	39	25	68	48	32	26	29	20	53	32	51	36	62
Oct	282	37	60	46	51	23	67	42	47	19	37	15	64	35	56	35	56
Oct	283	39	74	39	64	39	74	46	45	37	52	28	69	42	63	36	75
Oct	284	39	68	45	57	28	73	50	55	35	58	39	73	42	76	50	74
Oct	285	36	73	42	57	27	77	51	63	40	56	34	60	41	72	41	74
Oct	286	46	68	44	50	32	64	41	57	36	57	37	52	32	43	34	75
Oct	287	49	68	45	44	29	49	34	65	35	58	38	67	49	57	30	63
Oct	288	49	54	28	51	28	68	43	35	23	54	37	59	44	67	49	62
Oct	289	44	35	23	55	37	78	60	32	19	47	38	47	42	73	46	52
Oct	290	43	34	21	40	25	74	29	40	9	53	33	43	39	57	40	31
Oct	291	34	48	20	59	22	37	26	43	27	49	35	43	38	50	38	50
Oct	292	32	65	26	55	31	48	33	53	27	56	35	54	38	38	27	61
Oct	293	33	68	37	36	24	59	29	56	39	43	25	50	33	53	26	44
Oct	294	43	68	46	48	26	64	39	70	41	58	29	50	26	56	38	39
Oct	295	39	67	47	48	42	61	32	77	49	64	35	46	31	43	24	47
Oct	296	39	69	41	45	27	37	22	67	54	66	40	48	26	32	25	43
Oct	297	32	68	46	51	26	42	22	67	44	66	43	42	25	44	21	46
Oct	298	40	74	45	70	43	49	26	76	42	54	35	55	27	52	28	46
Oct	299	31	58	33	71	48	58	32	66	39	41	27	65	39	46	35	41
Oct	300	30	51	32	58	28	53	25	65	31	51	28	63	42	38	30	37

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Oct	301	18	43	32	75	43	25	3	51	37	52	18	57	33	43	27	59
Oct	302	13	32	18	71	44	15	1	38	33	18	8	45	29	32	26	40
Oct	303	24	39	15	66	37	18	-5	47	33	40	5	42	23	29	25	33
Oct	304	35	31	19	68	47	29	6	59	35	58	28	43	28	28	21	32
Nov	305	40	31	14	62	37	15	-1	47	32	46	29	60	36	21	8	35
Nov	306	37	42	22	37	23	6	-9	42	29	39	25	41	24	11	4	53
Nov	307	46	41	31	34	17	29	0	33	22	54	36	24	18	28	3	56
Nov	308	39	46	35	45	18	45	19	23	19	46	14	40	16	40	16	46
Nov	309	36	40	29	40	26	38	27	24	19	16	10	40	27	45	28	37
Nov	310	31	44	28	26	9	27	0	31	6	33	8	52	24	38	26	33
Nov	311	28	44	29	39	13	37	11	31	23	33	26	52	36	29	26	32
Nov	312	30	40	22	40	22	59	24	40	19	39	20	36	24	54	19	36
Nov	313	25	50	38	48	26	45	29	39	33	41	19	45	22	49	24	41
Nov	314	26	64	44	56	39	52	23	38	27	47	27	55	38	24	7	41
Nov	315	22	55	31	63	44	46	32	36	19	53	27	61	38	43	3	24
Nov	316	30	66	41	68	43	62	38	44	27	39	28	60	40	46	34	38
Nov	317	22	56	28	62	45	54	35	31	20	34	26	53	26	42	29	32
Nov	318	32	44	26	69	47	39	28	36	17	28	20	29	20	47	34	51
Nov	319	29	26	6	57	30	37	20	47	33	46	18	44	20	55	34	42
Nov	320	16	39	5	51	24	46	25	57	35	42	28	45	36	54	41	18
Nov	321	16	32	25	56	39	54	35	53	34	46	28	43	18	55	36	35
Nov	322	20	44	27	51	35	41	30	51	29	45	24	25	9	65	41	39
Nov	323	22	64	40	53	30	39	29	44	29	30	16	39	18	65	31	46
Nov	324	16	55	34	55	34	56	28	39	24	46	24	46	22	41	26	48
Nov	325	17	53	34	48	28	43	27	38	26	51	32	28	15	56	23	30
Nov	326	24	40	10	46	26	27	15	38	21	33	5	28	10	47	34	40
Nov	327	24	49	23	53	31	22	15	41	24	5	-7	48	22	47	32	11
Nov	328	38	45	30	61	36	29	5	31	13	-5	-11	44	26	59	41	42
Nov	329	22	41	18	59	22	43	28	17	13	1	-12	44	24	57	35	35
Nov	330	17	44	27	52	11	41	26	25	7	13	0	42	27	45	24	31
Nov	331	8	28	12	27	11	33	22	36	14	37	13	27	15	24	8	36
Nov	332	4	29	14	27	11	33	19	51	22	44	28	24	16	32	7	48
Nov	333	15	47	25	49	21	24	10	37	26	47	27	27	17	47	24	38
Nov	334	22	54	28	47	24	15	2	26	15	46	31	51	23	50	41	27
Dec	335	22	40	25	30	12	23	7	44	16	36	26	56	38	57	36	36
Dec	336	34	40	14	32	19	30	10	40	21	39	28	46	31	53	30	32
Dec	337	40	59	31	29	15	25	8	27	12	37	24	47	27	38	23	29
Dec	338	28	55	44	51	25	47	25	21	8	50	29	44	4	51	31	27
Dec	339	35	49	30	46	26	44	31	19	6	38	18	16	7	32	13	42
Dec	340	38	37	22	32	21	53	35	43	3	33	9	23	11	30	12	34
Dec	341	32	30	16	49	29	48	35	33	18	35	21	33	13	41	12	30
Dec	342	13	46	20	58	33	39	29	43	17	48	23	28	18	28	-18	45
Dec	343	10	41	27	62	37	43	23	40	26	43	32	32	12	20	-8	52
Dec	344	20	28	3	65	42	43	26	41	26	50	26	28	15	21	9	52
Dec	345	24	10	-10	58	37	44	24	42	21	60	37	37	20	55	8	44
Dec	346	22	22	9	40	21	39	28	44	26	54	33	36	20	50	31	43
Dec	347	24	16	8	40	10	33	12	26	14	33	25	42	23	50	35	41
Dec	348	30	13	-13	29	17	28	11	18	10	50	19	29	21	43	30	38
Dec	349	14	16	-18	33	14	39	19	38	2	46	22	36	16	46	26	26
Dec	350	5	9	0	40	24	45	29	31	20	24	15	37	21	43	26	27

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD															
		sd483404		1909-1999													
		Source - SDSU Climate Center (Bender, 2000b)									na = not available						
Day of		1988	1989	1989	1990	1990	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996
Month	Yr	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Dec	351	12	13	-4	33	11	38	16	25	11	20	15	39	28	26	20	3
Dec	352	26	6	-6	32	3	50	26	26	2	36	15	56	31	30	19	-4
Dec	353	38	18	-6	3	-23	41	33	17	3	26	16	40	28	37	17	21
Dec	354	28	19	-5	-18	-29	36	25	20	1	32	15	48	28	31	15	34
Dec	355	21	-9	-23	-16	-29	56	27	33	14	26	14	60	35	26	12	29
Dec	356	23	16	-24	-2	-27	44	28	35	22	23	9	52	28	24	2	11
Dec	357	22	49	-10	13	-9	43	17	31	22	23	8	58	40	35	10	6
Dec	358	17	39	29	20	12	40	23	27	-1	30	13	51	39	35	10	19
Dec	359	15	44	31	15	-7	43	25	44	22	41	25	54	37	47	26	13
Dec	360	10	43	32	23	3	47	21	30	11	42	28	52	29	44	26	38
Dec	361	-7	52	30	32	13	46	24	45	17	28	17	48	32	43	19	43
Dec	362	-9	45	26	26	-20	48	21	38	17	35	12	55	30	42	17	38
Dec	363	7	30	20	-15	-27	44	23	17	-6	35	17	44	24	40	24	43
Dec	364	15	29	20	17	-25	43	25	45	-6	41	27	24	14	39	20	50
Dec	365	21	30	13	35	16	na	na	40	-15	40	29	15	0	33	22	52
29 Feb	366	18							31	-11							25

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
	Day of	1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Jan	1	20	54	31	53	35	31	17			
Jan	2	-3	51	38	49	26	17	-4			
Jan	3	19	44	36	26	1	11	-7			
Jan	4	0	37	16	46	18	28	-1			
Jan	5	-5	21	5	43	24	32	28			
Jan	6	-5	24	6	39	19	31	1			
Jan	7	7	30	18	44	23	37	4			
Jan	8	30	32	19	29	9	29	1			
Jan	9	28	26	-3	18	-5	28	11			
Jan	10	29	-1	-16	7	-6	35	19			
Jan	11	27	-5	-20	1	-12	49	32			
Jan	12	39	1	-19	12	-9	44	25			
Jan	13	42	12	-14	39	4	33	24			
Jan	14	24	21	0	37	26	48	21			
Jan	15	24	22	0	34	27	45	27			
Jan	16	33	19	-11	32	21	44	23			
Jan	17	-3	29	11	38	20	40	18			
Jan	18	-16	42	22	38	28	47	15			
Jan	19	0	56	33	50	21	46	30			
Jan	20	10	57	34	36	14	47	25			
Jan	21	20	44	30	28	9	38	25			
Jan	22	-1	30	11	33	20	36	17			
Jan	23	9	34	18	31	19	35	19			
Jan	24	9	20	-8	45	17	23	4			
Jan	25	-11	-3	-14	40	30	41	12			
Jan	26	-2	21	-11	47	28	33	22			
Jan	27	8	23	-4	51	27	23	16			
Jan	28	-9	38	17	40	29	43	13			
Jan	29	-18	37	24	53	21	49	20			
Jan	30	-21	53	34	48	26	55	25			
Jan	31	-8	48	37	35	28	50	37			
Feb	32	-22	38	29	39	20	42	26			
Feb	33	-24	41	27	34	13	40	23			
Feb	34	-19	32	22	50	19	35	27			
Feb	35	-3	26	15	56	21	50	17			
Feb	36	27	29	7	44	26	46	30			
Feb	37	36	29	9	47	29	49	26			
Feb	38	38	27	5	51	28	48	33			
Feb	39	30	38	11	47	27	45	29			
Feb	40	45	38	14	43	26	53	30			
Feb	41	17	36	11	40	27	49	18			
Feb	42	21	28	12	42	19	22	9			
Feb	43	26	38	-2	38	21	37	16			
Feb	44	38	32	23	42	22	64	29			
Feb	45	24	33	23	42	31	54	31			
Feb	46	10	33	24	46	30	42	24			
Feb	47	10	52	27	41	32	37	12			
Feb	48	25	54	40	35	31	38	21			
Feb	49	35	43	20	32	29	34	22			
Feb	50	37	49	25	36	22	38	19			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Feb	51	28	42	28	43	20	33	23			
Feb	52	31	31	23	49	24	33	13			
Feb	53	29	26	9	48	32	36	25			
Feb	54	18	22	-6	38	27	42	19			
Feb	55	27	31	6	41	26	53	23			
Feb	56	9	48	20	40	20	58	35			
Feb	57	0	30	17	30	17	49	28			
Feb	58	-9	40	15	18	13	38	24			
Feb	59	-8	32	13	16	11	53	27			
Mar	60	13	30	11	15	12	42	28			
Mar	61	9	42	21	22	9	29	22			
Mar	62	13	35	15	27	9	49	14			
Mar	63	11	21	-1	20	12	44	26			
Mar	64	-3	26	13	13	1	29	16			
Mar	65	-7	46	14	17	2	32	8			
Mar	66	-6	45	28	14	2	31	19			
Mar	67	-12	45	27	18	1	30	19			
Mar	68	10	44	20	20	0	41	17			
Mar	69	36	43	33	27	-9	34	19			
Mar	70	36	54	27	31	-13	35	14			
Mar	71	31	38	19	45	29	30	23			
Mar	72	31	26	15	45	28	48	19			
Mar	73	25	16	-8	50	22	60	29			
Mar	74	30	32	0	47	32	62	38			
Mar	75	26	57	30	55	32	62	34			
Mar	76	24	46	35	44	30	36	22			
Mar	77	21	50	28	31	22	54	23			
Mar	78	11	63	29	31	21	63	36			
Mar	79	10	70	45	42	21	51	28			
Mar	80	30	57	35	44	26	53	32			
Mar	81	28	47	27	46	28	51	36			
Mar	82	17	56	27	49	29	54	31			
Mar	83	-5	46	24	64	42	53	32			
Mar	84	-10	48	24	62	42	60	36			
Mar	85	2	66	27	56	42	69	45			
Mar	86	11	63	31	51	34	60	29			
Mar	87	12	42	22	37	28	35	21			
Mar	88	12	37	24	32	23	53	22			
Mar	89	17	52	25	28	21	65	40			
Mar	90	24	65	26	38	13	50	30			
Apr	91	32	54	28	48	24	35	19			
Apr	92	34	42	25	50	30	23	17			
Apr	93	25	60	25	53	28	24	14			
Apr	94	14	52	28	59	30	37	17			
Apr	95	21	28	12	48	36	45	26			
Apr	96	30	20	8	44	32	52	26			
Apr	97	42	17	7	40	28	57	37			
Apr	98	41	20	-1	37	25	55	36			
Apr	99	39	21	8	44	24	56	36			
Apr	100	50	17	7	56	29	46	27			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Apr	101	21	19	4	69	39	45	26			
Apr	102	19	27	10	66	34	55	29			
Apr	103	26	43	7	45	33	61	33			
Apr	104	25	51	25	41	27	49	27			
Apr	105	30	40	29	40	27	33	22			
Apr	106	34	51	22	43	19	34	22			
Apr	107	44	65	38	42	30	51	20			
Apr	108	33	60	39	42	27	61	38			
Apr	109	34	60	38	38	21	64	36			
Apr	110	32	62	40	47	24	59	40			
Apr	111	29	55	33	55	32	51	34			
Apr	112	22	40	31	62	32	35	30			
Apr	113	30	48	19	72	38	39	27			
Apr	114	43	44	28	72	39	46	32			
Apr	115	34	49	33	63	38	47	34			
Apr	116	31	46	34	50	34	51	36			
Apr	117	31	62	30	52	33	57	36			
Apr	118	24	59	35	58	34	63	45			
Apr	119	22	46	33	64	37	55	42			
Apr	120	32	51	30	69	42	57	42			
May	121	31	44	31	61	41	59	46			
May	122	32	34	27	58	28	56	41			
May	123	33	49	20	74	39	54	42			
May	124	29	64	34	68	48	48	36			
May	125	27	59	39	65	33	45	32			
May	126	34	65	41	64	44	46	33			
May	127	39	62	43	50	27	54	32			
May	128	36	49	35	40	31	58	34			
May	129	26	65	30	48	31	55	39			
May	130	25	71	44	49	39	44	31			
May	131	31	62	34	47	40	45	29			
May	132	37	53	33	58	39	59	30			
May	133	40	58	42	75	41	57	44			
May	134	44	56	33	70	52	56	39			
May	135	48	67	34	58	40	55	33			
May	136	51	74	51	69	37	49	36			
May	137	50	76	53	75	52	59	33			
May	138	44	71	36	72	40	67	37			
May	139	43	52	26	71	40	66	44			
May	140	38	62	34	72	52	65	41			
May	141	35	70	35	60	52	73	47			
May	142	40	53	51	63	46	56	46			
May	143	40	61	46	57	45	66	37			
May	144	39	66	47	54	42	65	42			
May	145	36	53	44	65	41	66	42			
May	146	36	44	37	72	51	73	46			
May	147	31	37	32	74	58	65	44			
May	148	31	43	34	70	42	75	49			
May	149	38	53	34	68	41	81	51			
May	150	49	65	35	76	53	72	42			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
May	151	42	77	51	65	45	53	38			
June	152	40	77	56	70	45	68	41			
June	153	45	65	49	66	36	78	47			
June	154	40	69	47	40	29	72	48			
June	155	50	75	49	40	32	71	47			
June	156	48	75	52	46	32	65	48			
June	157	43	70	55	54	33	57	44			
June	158	38	77	56	53	40	72	42			
June	159	52	74	57	46	37	79	48			
June	160	55	71	56	53	41	62	45			
June	161	56	68	49	69	46	56	41			
June	162	53	63	52	64	44	63	44			
June	163	49	60	47	71	45	63	43			
June	164	56	59	44	69	48	63	40			
June	165	56	73	52	53	45	65	44			
June	166	49	67	51	64	40	56	44			
June	167	50	75	46	64	46	56	37			
June	168	55	69	52	60	42	69	47			
June	169	56	73	49	56	42	72	51			
June	170	46	71	48	71	44	78	53			
June	171	46	64	49	62	44	82	54			
June	172	49	72	41	67	45	88	61			
June	173	52	89	57	71	45	77	59			
June	174	47	78	54	72	49	67	47			
June	175	49	65	49	74	47	75	51			
June	176	64	64	41	80	48	88	63			
June	177	65	80	50	79	55	84	52			
June	178	69	85	54	72	44	68	50			
June	179	65	75	53	73	49	60	42			
June	180	51	74	51	74	49	64	50			
June	181	50	72	54	71	49	62	48			
July	182	53	70	47	76	56	64	46			
July	183	58	57	41	76	57	68	48			
July	184	61	58	39	72	53	80	60			
July	185	62	67	38	82	62	88	57			
July	186	69	69	46	81	60	84	49			
July	187	54	74	49	77	58	79	48			
July	188	54	72	49	77	53	89	57			
July	189	43	78	51	73	56	83	56			
July	190	49	86	61	78	57	70	50			
July	191	55	90	65	83	55	70	43			
July	192	51	76	59	83	63	79	54			
July	193	47	70	52	80	53	85	53			
July	194	45	65	49	82	57	86	61			
July	195	45	78	50	82	61	81	54			
July	196	50	87	54	81	57	78	65			
July	197	63	85	60	86	58	69	44			
July	198	61	84	61	86	61	71	55			
July	199	53	82	65	96	69	78	55			
July	200	67	70	57	88	65	80	59			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
July	201	60	66	55	87	73	78	53			
July	202	54	69	53	77	59	87	63			
July	203	49	81	56	69	48	83	69			
July	204	51	86	63	68	53	83	58			
July	205	47	78	57	74	53	92	60			
July	206	47	83	56	76	57	84	60			
July	207	50	77	58	80	55	76	55			
July	208	46	72	56	84	55	90	65			
July	209	56	69	56	78	62	93	60			
July	210	49	61	51	69	52	89	67			
July	211	51	75	50	64	53	82	58			
July	212	54	74	60	77	54	76	50			
Aug	213	56	81	54	80	52	72	53			
Aug	214	60	78	60	71	50	77	48			
Aug	215	59	82	59	64	56	74	52			
Aug	216	60	78	55	59	50	76	54			
Aug	217	49	71	62	72	49	76	57			
Aug	218	46	69	55	79	52	76	55			
Aug	219	48	72	49	78	52	74	55			
Aug	220	48	78	56	83	57	88	59			
Aug	221	55	75	48	78	57	80	57			
Aug	222	49	56	46	80	57	87	54			
Aug	223	52	59	49	75	54	83	58			
Aug	224	62	67	47	78	52	71	49			
Aug	225	57	65	52	81	59	70	43			
Aug	226	60	68	50	77	55	87	51			
Aug	227	53	68	56	81	58	83	67			
Aug	228	52	61	49	85	56	74	49			
Aug	229	58	62	46	82	56	78	54			
Aug	230	62	75	48	85	60	76	47			
Aug	231	47	69	51	78	59	84	55			
Aug	232	58	71	47	76	56	82	63			
Aug	233	57	79	56	83	61	80	55			
Aug	234	47	80	57	83	61	80	58			
Aug	235	59	84	57	77	51	74	47			
Aug	236	59	89	61	74	51	84	52			
Aug	237	56	75	51	75	50	83	66			
Aug	238	53	82	59	78	55	86	58			
Aug	239	59	80	59	76	57	89	63			
Aug	240	58	85	59	82	53	81	59			
Aug	241	53	78	64	82	53	78	56			
Aug	242	49	76	51	81	60	86	57			
Aug	243	53	87	62	78	55	84	69			
Sept	244	54	77	54	80	51	71	52			
Sept	245	49	74	46	85	60	62	51			
Sept	246	50	85	58	87	55	59	46			
Sept	247	59	76	54	92	56	47	41			
Sept	248	66	76	53	82	62	69	39			
Sept	249	44	82	56	75	61	79	47			
Sept	250	38	77	51	83	55	76	45			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Sept	251	47	65	53	86	65	61	43			
Sept	252	51	68	38	90	66	65	37			
Sept	253	48	76	50	90	65	75	44			
Sept	254	46	80	55	77	58	67	43			
Sept	255	50	76	58	74	58	49	37			
Sept	256	53	76	49	66	53	55	36			
Sept	257	56	82	59	71	49	55	34			
Sept	258	48	83	56	77	49	63	35			
Sept	259	50	76	43	81	50	74	44			
Sept	260	49	72	37	82	60	80	50			
Sept	261	41	68	51	85	56	70	47			
Sept	262	35	56	36	72	49	54	38			
Sept	263	40	60	31	54	41	60	33			
Sept	264	36	56	48	46	35	70	38			
Sept	265	35	48	42	60	35	77	44			
Sept	266	35	60	36	65	44	76	46			
Sept	267	32	68	38	70	42	76	53			
Sept	268	30	76	42	75	45	76	44			
Sept	269	28	72	54	63	48	48	33			
Sept	270	27	65	41	67	41	45	27			
Sept	271	41	59	42	73	48	45	28			
Sept	272	42	65	35	72	45	66	33			
Sept	273	44	74	43	60	40	59	35			
Oct	274	44	81	51	56	40	47	25			
Oct	275	28	79	52	47	37	32	26			
Oct	276	35	74	44	46	36	45	24			
Oct	277	43	74	42	41	29	67	32			
Oct	278	50	72	44	32	29	68	36			
Oct	279	41	62	35	43	31	79	47			
Oct	280	40	77	48	64	34	62	42			
Oct	281	38	71	32	70	41	64	38			
Oct	282	35	57	27	63	40	69	47			
Oct	283	36	73	42	62	38	69	37			
Oct	284	50	73	50	52	34	79	44			
Oct	285	50	50	27	56	30	65	41			
Oct	286	46	34	21	67	38	69	35			
Oct	287	46	55	34	60	43	64	42			
Oct	288	39	55	35	56	37	55	33			
Oct	289	31	66	38	45	35	36	27			
Oct	290	26	77	45	41	29	51	25			
Oct	291	19	65	44	50	32	41	31			
Oct	292	37	45	29	52	29	45	28			
Oct	293	38	39	31	48	29	62	36			
Oct	294	20	43	27	55	28	62	48			
Oct	295	24	55	31	67	36	60	39			
Oct	296	30	46	33	67	42	61	35			
Oct	297	27	37	14	58	39	69	42			
Oct	298	31	25	9	64	37	66	38			
Oct	299	22	44	13	63	37	72	42			
Oct	300	15	59	31	62	37	62	34			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Oct	301	24	48	31	52	45	65	26			
Oct	302	33	56	33	46	34	56	39			
Oct	303	17	52	41	36	28	58	34			
Oct	304	8	52	36	41	31	69	45			
Nov	305	17	40	32	52	32	64	24			
Nov	306	28	34	29	40	30	59	24			
Nov	307	32	53	27	32	25	55	35			
Nov	308	29	48	35	29	23	67	39			
Nov	309	22	47	30	32	24	58	27			
Nov	310	20	61	32	29	22	69	40			
Nov	311	24	67	38	29	21	74	53			
Nov	312	14	44	25	42	15	71	53			
Nov	313	26	25	14	34	17	60	40			
Nov	314	21	25	5	22	13	64	33			
Nov	315	18	22	14	38	19	64	46			
Nov	316	18	40	11	40	20	73	47			
Nov	317	14	30	8	55	31	67	49			
Nov	318	24	9	3	49	34	68	41			
Nov	319	18	20	2	62	34	68	42			
Nov	320	6	38	8	52	39	61	41			
Nov	321	6	40	21	42	29	69	36			
Nov	322	19	38	13	38	24	63	38			
Nov	323	16	41	25	38	26	46	25			
Nov	324	17	39	28	45	24	50	37			
Nov	325	19	37	29	49	34	40	27			
Nov	326	9	29	22	55	30	35	19			
Nov	327	-2	42	18	46	29	32	21			
Nov	328	6	53	29	55	38	37	21			
Nov	329	23	52	29	49	31	42	26			
Nov	330	17	44	22	67	37	42	30			
Nov	331	17	47	31	64	39	40	27			
Nov	332	30	50	28	59	44	46	25			
Nov	333	19	44	29	55	31	56	28			
Nov	334	15	51	26	52	27	59	40			
Dec	335	19	44	27	60	48	58	33			
Dec	336	20	29	21	54	37	46	27			
Dec	337	9	34	15	53	29	36	27			
Dec	338	10	27	8	56	29	35	14			
Dec	339	14	24	6	29	19	49	18			
Dec	340	22	36	10	31	14	44	28			
Dec	341	21	38	24	30	16	41	26			
Dec	342	20	38	22	40	19	33	17			
Dec	343	40	28	15	33	20	39	14			
Dec	344	37	21	14	46	17	37	24			
Dec	345	28	31	16	47	30	34	22			
Dec	346	18	39	21	44	28	39	26			
Dec	347	25	48	34	57	30	39	27			
Dec	348	20	64	36	59	38	28	15			
Dec	349	10	52	34	40	21	25	20			
Dec	350	3	46	25	37	26	40	25			

		Appendix C. Daily Maximum and Minimum Temperatures (deg F) for Lead, SD									
		sd483404		1909-1999							
		Source - SDSU Climate Center (Bender, 2000b)								na = not available	
Day of		1996	1997	1997	1998	1998	1999	1999			
Month	Yr	min	max	min	max	min	max	min			
Dec	351	-5	52	32	58	32	38	27			
Dec	352	-10	37	26	46	13	37	23			
Dec	353	-12	31	14	12	-10	33	3			
Dec	354	19	41	14	-7	-16	15	1			
Dec	355	10	39	25	-3	-18	24	9			
Dec	356	-5	31	17	11	-11	25	9			
Dec	357	-12	41	18	10	-2	41	25			
Dec	358	-8	24	20	24	-2	53	32			
Dec	359	-10	30	17	25	15	52	37			
Dec	360	-10	34	23	38	21	50	25			
Dec	361	5	38	22	34	21	43	28			
Dec	362	6	27	17	42	24	52	41			
Dec	363	1	37	26	32	4	50	37			
Dec	364	18	37	22	37	15	43	29			
Dec	365	33	48	20	38	15	46	26			
29 Feb	366	-5									

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Jan	1	0	0.13	0.07	0	0.08	0.17	0.06	0	0	0	0	0.03	0.12	0	0	0	0	0
Jan	2	0	0.11	0	0.1	0	0	0.72	0	0	0	0	0.1	0	0.29	0.03	0	0.04	0
Jan	3	0	0	0	0	0.57	0.03	0	0	0	0	0	0	0.09	0.31	0	0	0.13	0.33
Jan	4	0	0.08	0.03	0	0.1	0	0	0	0	0.08	0	0	0	0.08	0	0	0	0.5
Jan	5	0	0.14	0.03	0.1	0	0	0.02	0	0	0.35	0	0	0	0	0.16	0	0	0
Jan	6	0	0.05	0.03	0	0	0	0	0	0	0.21	0	0.1	0.04	0	0	0	0.02	0.47
Jan	7	0	0.04	0.08	0	0	0	0	0	0	0.12	0	0.02	0	0	0	0	0	0.06
Jan	8	0	0	0	0.08	0	0	0	0	0	0.28	0	0	0	0	0.08	0	0	0
Jan	9	0	0	0	0	0	0.01	0	0	0.08	0.19	0	0.15	0	0	0	0	0.02	0
Jan	10	0	0	0.09	0	0	0.05	0	0	0.1	0.1	0	0.2	0.03	0.03	0	0.05	0	0.13
Jan	11	0	0	0	0	0	0	0	0.11	0	0.06	0	0	0.05	0.17	0	0.37	0.14	0.17
Jan	12	0	0.04	0	0	0	0	0	0	0.1	0.03	0	0	0	0.04	0	0.04	0	0
Jan	13	0	0	0	0	0	0	0	0	0	0.06	0	0	0	0.21	0.09	0.03	0	0
Jan	14	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan	15	0	0	0	0	0	0	0.42	0.17	0	0.04	0	0	0	0.06	0	0.05	0.1	0
Jan	16	0	0	0	0	0.05	0	0.07	0	0	0.2	0	0	0.08	0	0	0.15	0	0
Jan	17	0	0.17	0.07	0.08	0.04	0	0.23	0	0	0.2	0	0.22	0	0	0	0	0	0
Jan	18	0	0	0	0	0	0	0.51	0	0	0	0	0	0	0.2	0.1	0.02	0	0.05
Jan	19	0	0.07	0	0	0	0.04	0.48	0	0	0	0	0	0	0.02	0	0	0	0.29
Jan	20	0	0	0.08	0	0	0	0.24	0	0.04	0	0	0.28	0	0	0.02	0	0	0
Jan	21	0	0	0	0	0	0	0.21	0	0.19	0	0	0	0	0.05	0	0	0	0
Jan	22	0	0	0	0	0	0	0.05	0	0	0.08	0	0	0	0.03	0	0	0	0
Jan	23	0	0	0	0	0	0.06	0	0	0	0.09	0	0.1	0	0	0	0	0	0.02
Jan	24	0	0	0	0	0	0	0.07	0	0	0.18	0	0	0.23	0	0	0.03	0	0
Jan	25	0	0.59	0	0	0	0	0	0	0	0.19	0	0	0.03	0	0	0.06	0.14	0
Jan	26	0	0	0	0	0.12	0	0.12	0	0.17	0.2	0	0	0	0	0.04	0	0	0.22
Jan	27	0	0	0	0	0.09	0	0	0.07	0	0	0	0	0	0	0.02	0	0	0.1
Jan	28	0	0	0	0	0.06	0.05	0	0.08	0	0.11	0	0	0	0	0	0	0.13	0
Jan	29	0	0.96	0.03	0	0	0	0	0	0.18	0.04	0	0	0.12	0	0	0	0	0
Jan	30	0	0	0	0	0.32	0	0.22	0	0.03	0.05	0	0	0	0	0.02	0	0	0.17
Jan	31	0	0	0.06	0	0.1	0	0.08	0	0	0	0	0	0	0	0.03	0	0	0
Feb	32	0	0.21	0.01	0	0.06	0	0	0	0	0	0	0	0	0	0.04	0	0.09	0
Feb	33	0	0	0	0.45	0	0	0	0	0	0.07	0.13	0	0	0	0.1	0	0	0.2
Feb	34	0	0	0	0.26	0.02	0	0	0	0.03	0	0.05	0	0	0.02	0	0.99	0	0
Feb	35	0	0	0	0	0	0	0.36	0	0.17	0	0	0	0	0	0	0.1	0	0
Feb	36	0	0	0.01	0	0	0.1	0.44	0	0	0	0.09	0	0.14	0.05	0	0	0	0
Feb	37	0	0	0	0	0.04	0	0	0.17	0.6	0	0	0	0.12	0.05	0.07	0.28	0	0
Feb	38	0	0.02	0.06	0.06	0	0	0	0	0	0	0	0	0	0	0.04	0	0.05	0
Feb	39	0.3	0	0	0	0	0	0	0	0.36	0	0	0	0.03	0	0	0	0	0
Feb	40	0	0	0	0.08	0	0	0	0	0.07	0	0	0	0	0	0	0.04	0.05	0
Feb	41	0	0	0	0.02	0.02	0	0	0	0.08	0	0	0	0	0	0	0	0	0
Feb	42	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	43	0	0	0	0.02	0	0.1	0.22	0.28	0	0	0	0.1	0	0.02	0	0	0	0
Feb	44	0	0	0	0	0	0.02	0.46	0	0	0	0.3	0.4	0	0	0.05	0	0	0.1
Feb	45	0	0.05	0.25	0	0	0.06	0.02	0	0	0.56	0.04	0.1	0	0	0	0	0	0.05
Feb	46	0	0	0	0	0	0	0	0	0	0.07	0	0.06	0	0	0	0	0.27	0
Feb	47	0	0	0	0.02	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0
Feb	48	0.03	0	0	0	0	0	0	0	0.15	0	0	0	0.04	0	0	0	0	0
Feb	49	0	0	0	0.14	0.03	0	0	0	0.13	0	0	0	0	0	0	0	0	0
Feb	50	0	0.02	0	0	0.27	0	0	0	0	0	0.04	0	0	0	0	0.1	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Feb	51	0	0	0	0.03	0.02	0	0	0	0	0	0.06	0.12	0	0	0	0	0	0
Feb	52	0	0	0	0	0.03	0	0	0	0	0	0.04	0	0	0	0	0	0	0.14
Feb	53	0.04	0	0	0	0	0.2	0	0	0	0	0	0	0.04	0.26	0	0.2	0	0
Feb	54	0	0	0	0	0	0	0	0	0	0	0.13	0	0	0	0	0.12	0.19	0.02
Feb	55	0	0	0	0	0	0	0	0	0	0	0	0.06	0	0	0	0	0.16	0
Feb	56	0	0.04	0.25	0.07	0	0	0	0.11	0	0.31	0	0.12	0	0	0	0	0.09	0.17
Feb	57	0	0	0.33	0	0.05	0.45	0.02	0	0	0	0	0	0	0	0.41	0	0.07	0
Feb	58	0	0	0.02	0.06	0	0	0	0.06	0	0	0.07	0.02	0	0	0.15	0	0	0
Feb	59	0	0.05	0	0	0	0.17	0	0	0	0	0	0.06	0	0	0.23	0	0.35	0
Mar	60	0	0	0	0	0.06	0	0	0.2	0	0	0	0	0	0	0	0.55	0.22	0
Mar	61	0.06	0	0	0	0	0	0	0.15	0.05	0	0	0	0	0	0	0	0	0
Mar	62	0	0	0	0.08	0.18	0	0.04	0.05	0.08	0	0	0	0	0	0.54	0	0	0
Mar	63	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0	0.04	0	0
Mar	64	0.13	0	0	0	0.12	0.14	0.06	0	0	0.15	0	0	0	0.1	0	0.27	0	0.05
Mar	65	0	0	0	0	0	0.08	0.25	0	0.27	0	0.11	0.14	0	0	0	0.35	0	0.1
Mar	66	0	0	0	0	0	0	0	0.04	0.05	0	0	0.03	0.05	0.03	0.02	0.13	0	0
Mar	67	0	0	0	0	0	0	0	0.07	0	0	0	0	0.05	0.04	0	0	0	0
Mar	68	0	0.25	0	0	0	0	0	0.18	0	0.4	0.11	0	0	0	0.02	0.03	0.28	0
Mar	69	0.01	0	0	0	0.02	0.07	0	0	0.2	0	0	0	0	0	0	0	0.03	0
Mar	70	0.06	0	0	0	0	0	0	0.32	0	0	0	0	0	0	0.15	0	0	0
Mar	71	0.01	0	0	0.34	0	0	0	0	0.08	0	0	0.22	0	0	0.2	0.05	0	0.24
Mar	72	0.29	0	0	0	0.5	0	0	0	0	0.15	0	0	0	0	0	0.09	0.14	0
Mar	73	0	0	0	0.07	1.25	0	0.18	0	0	0.45	0.17	0	0	0	0.05	0.19	0	0.08
Mar	74	0.08	0	0	0	0	0.03	0	0.14	0.12	0	0.23	0	0	0	0.02	0.03	0	0
Mar	75	0	0	0	0	0.1	0.1	0.14	0	0.29	0	0	0.51	0	0	0	0	0	0
Mar	76	0	0	0	0	0	0.11	0	0	0.06	0	0.2	0.04	0.04	0	0.5	0	0.13	0
Mar	77	0	0	0	0	0	0.43	0.02	0	0	0	0	0	0	0.02	0	0.06	0.02	0
Mar	78	0	0	0	0	0.03	0.14	0.11	0	0	0	0	0.52	0.03	0	0	0	0.03	0
Mar	79	0	0	0	0.28	0.12	0.3	0.24	0	0	0	0.17	0.06	0.17	0.05	0.04	0	0	0
Mar	80	0	0	0	0.18	0	0.15	0.17	0	0	0	0	0	0	0	0.06	0.03	0	0
Mar	81	0	0	0	0	0	0	0	0.58	0	0	0	0	0	0	0	0.1	0	0
Mar	82	0	0	0	0	0.14	0	0	0	0	0	0	0	0.12	0	0.02	0.08	0	0
Mar	83	0	0	0	0	0.08	0	0.52	0	0.08	0	0	0.15	0.04	0	0	0	0.15	0.2
Mar	84	0	0	0.9	0	0	0.02	0.02	0.21	0.08	0	0.26	0	0	0.1	0.38	0	0	0.14
Mar	85	0.27	0.83	0	0	0	0	0	0.15	0.07	0	0.01	0	0.51	0	0	0.51	0	0
Mar	86	0.04	0	0	0	0	0	0	0	0	0	0	0	0.04	0.19	0	0	0	0.1
Mar	87	0.01	0	0.1	0	0	0	0	0	0	0.34	0	0	0.04	0	0	0	0	0.15
Mar	88	0	1.1	0.42	0	0	0.08	0	0	0	0	0	0.22	0.07	0.02	0	0	0	0
Mar	89	0	0	0	0	0.3	0	0	1.54	0	0	0	0	0.05	0	0	0.15	0	0.12
Mar	90	0	0	0.28	0.07	0	0	0	1.36	0.1	0.16	0	0	0	0	0	0.05	0.1	0.03
Apr	91	0.19	0	0.11	0	0	0.13	0.13	0	0	0.25	0	0	0	0	0	0.08	0.03	0.26
Apr	92	0	0	0	0	0.2	0.07	0	0	0	1.09	0.44	0.1	0	0.03	0.28	0	0.34	0.21
Apr	93	0	0.12	0	0	0.3	0	0	0.08	0.05	0.18	0.05	0.05	0	0	0	0	0	0.04
Apr	94	0.12	0	0	0	0	0	0	0	0.03	0	0	0.12	0	0	0	0	0	0.04
Apr	95	0.26	0	0.15	0	0	0	0	0.03	0	0	0.05	0.12	0	0	0	0	0	0.04
Apr	96	0.06	0	0.05	0	0	0	0.06	0	0.08	0	0.39	0.07	0	0.98	0.1	0	0	0
Apr	97	0.04	0	0.06	0.16	0.15	0.17	0	0.04	0.25	0	1.97	0	0	0	0.35	0	0.74	0
Apr	98	0	0	0	0	0	0	0	0.44	0	0	0.6	0	0.09	0	0	0	0.1	0
Apr	99	0	0	0	0	0.04	0	0	0	0	0	0	0	0.08	0.32	0.02	0.15	0	0
Apr	100	0	0.04	0.03	0	0.06	0.19	0.14	0	0.5	0	0	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Apr	101	0.06	0	0	0	0	0	0	0	0	0	0.15	0.12	0	0	0	0.08	0	0
Apr	102	0.03	0.02	0.46	0.04	0	0	0	0	0	0.05	0	0	0	0.21	0	0.1	0	0
Apr	103	0.07	0.39	0	0	0	0	0	0	0.24	0.28	0.16	0	0	0.29	0.1	0	0	0.28
Apr	104	0	2.46	0	1.56	0	0	0	0	0	0.13	0.98	0	0	0	0.02	0	0	0
Apr	105	0	0.38	0	1.04	0	0	0.15	0	0.2	0.88	0	0	0	0	0	0	0	0
Apr	106	0.07	0	0	0	0	0	0	0.07	0.2	0.18	0	0.06	0	0.42	0	0.05	0	0
Apr	107	0.34	0	0	0	0	1.47	0	0	0	0.32	0	0	0	0	0	0.15	0.06	0
Apr	108	0	0	0	0.07	0	0.86	0	0	0.01	2.95	0	1.14	0	0	0	0.02	0.01	0
Apr	109	0	0	0	0	0	0	0	0.28	0.15	0.5	0.05	1.3	0	0.18	0	0	0	0
Apr	110	0	0	0	0.02	0	0	0	0.51	0	0	0	0.55	0	0	0.2	0.16	0	0
Apr	111	0.23	0	0.1	0.27	0	0.2	0	0.02	0	0.05	0	0.11	0.12	0	0	0	0	0
Apr	112	0	0	0.23	0.48	0.12	0	0	0	0	0	0	0.05	0	0	0.12	0	0	0
Apr	113	0	0	0.12	0	0	0.06	0.75	0	0	0	0	0.2	0	0	0.56	0	0.13	0
Apr	114	0	0	0	0	0.03	0.14	0.9	0.5	0.35	0	0	0.1	0.4	0.04	0	0	0	0
Apr	115	0	0	0	0	0	0.89	0.15	0	0	0	0	0.11	0.07	0	0	0.03	0	0
Apr	116	0.3	0	0	0.05	0	0.07	0	0	0.1	0.55	0	0.21	0.03	0.08	0	0.15	0	0
Apr	117	0	0	0	0.53	0	0.7	0	0	0.46	0.28	0	0	0.15	0	0	0.09	0	0
Apr	118	0	0	0	0	0	0	0	0	0.39	0.13	0	0.05	0.28	0	0	0	0.22	0
Apr	119	1.2	0	0.16	0	0	0.16	0	0	0.12	0	0	0.1	0	0	0	0	0	0
Apr	120	0	0.18	0.07	0	0	0.03	0	0.15	0	0	0	0.8	0	0	0	0.53	0	0
May	121	0.04	0.26	0	0	0.12	0	0.4	0.19	0.07	0	0	0	0	0	0	0.16	0	0
May	122	0.08	0	0	0	0.04	0	0.91	0	0.12	0	0	0	0	0	0	0	0	0
May	123	0	0	0	0	0	0.06	0.95	0.38	0.03	0	0.09	0.09	0	0	1.03	0	0.18	0
May	124	0	0	0	0.2	0.02	0	0.18	0	0	0	0.16	0.19	0	0	0	0	0	0
May	125	0	0	0	0.28	0	0.07	0.24	0	0	0	0	0	0	0	0	0	0	0
May	126	0.17	0.3	0	0.43	0.12	0	0	0	0	0	0.12	0.19	0	0	0.08	0	0	0.17
May	127	0	0	0	0.04	0	0	0	0	0.03	0	0.08	0.25	0.03	0	0	0.43	0	0.45
May	128	0	0	0	0	0	0	0	0	0	0	0	0.14	0.16	0	0	0.21	0.08	0
May	129	0	0.05	0	0	0	0	0	0	0	1.28	0	0	0.09	0.12	0	0.02	0	0
May	130	0	0.23	0.3	0	0	0	0	0	0	0	0.32	0	0	0.54	0	0.04	0	0.06
May	131	0.2	0	0	0	0	0.79	0	0	0	0	0.42	0.35	0.05	4.4	0.06	0	0	0.32
May	132	0	0.08	0	0	0	0.06	0	0	0.12	0.05	0	1.13	0.07	0.21	0.05	0	0	0.08
May	133	0	0	0	0.12	0.3	0	0	0.35	0.21	0.08	0	0.85	0	0.2	0	0	0	0.54
May	134	0	0	0.05	0.1	0.32	0	0	0.54	0	0	0	0.02	0	0.68	0	0	0	0
May	135	0	0.26	0	0	0	0	0	0.71	0	0	0	0	0	0.71	0.28	0	3.82	0
May	136	0	0.35	0	0	0.06	0	0	2.02	0	0.21	0	0	0	0.3	0	0	0.34	0
May	137	0.09	0	0	0	0	0	0	0.16	0	0	0	0.04	0	0.28	0.09	0	0	0.42
May	138	0.02	0	0.09	0	0.42	0.29	0	0	0.29	0.03	0	0	0	0	0	0.34	0	0.21
May	139	0	0	0.13	0	0	0.46	0	0	0	0.22	0	0	0.14	0	0	0	0	0
May	140	0.17	0.46	0.03	0	0	0.5	0.09	0	0.7	0	0	0	0	0	0	0	0	0
May	141	0	0	0	0	0.04	0.35	0.07	0.25	0.61	0	0	0	0	0.13	0.04	0.08	0	0.02
May	142	0.02	0	0	0.06	0	0	0	0.7	0	0	0	0	0	0.02	0.33	0	0.1	0
May	143	0.33	0	0	0.13	0	0.02	0.26	0.29	0	0	0	0.2	0	0.12	0	0	0	0
May	144	1.65	0	0	0	0	0.25	0	0	0	0	0	0	0.09	0	0	0.19	0	0
May	145	1.57	0	0	0	0	0	0.91	0.09	0.3	0.37	0	0	0.36	0	0	0	0	0
May	146	0	0.08	0.06	0	0	0	0.21	0	0.42	0.28	0	0.03	0.14	0	0	0	0.42	0
May	147	0	0.07	0.03	0	0	0	0.4	0	0	0.03	0	0	0	0.28	0	0	0	1.06
May	148	0.09	0	0	0	0	0.23	0	0	0.03	0.03	0	0	0.25	2.16	0.04	0	0	0.27
May	149	2.22	0	0.15	0	0	0	0	0	0.25	0	0	0	0.01	0.52	0.05	0	0	0
May	150	0	0	0	0	0.55	0	0	0	0.31	0.2	0.17	0	0	0.32	0.02	0.05	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
May	151	5.73	0	0	0	0	0	0.05	0	0.12	0.28	0.05	0.08	0.01	0	0	0	0.66	0.13
June	152	1.53	0	0.06	0.05	0	0.25	0	0	0	0.03	0	1.04	0.26	0	0	0	0	0
June	153	0.55	0.33	0	0	0	0	0.26	0.6	0	0	0	0.09	0	0	0	0.07	0.83	0
June	154	0	0.21	0.56	0	0.11	0.73	0	0.08	0.34	0	0	0	0.17	0	0	0	0.28	0
June	155	0.1	0	0	0.09	0.14	0.14	0.21	0	0.04	0.04	0	0.58	0	0	0.67	0.03	0	0
June	156	0	0	0	0	0	0.48	0.07	0	0.09	0.03	0	0.02	0	0	1.9	0	0.5	0
June	157	0.72	0.03	0	0	0.05	0.18	0.46	0.05	0.09	0.11	0	0.12	0.02	0	1.25	0.4	0.13	0
June	158	0.17	0.04	0.03	0.14	0	0	0	0.03	0.05	0	0	0.06	0.03	0.05	0	0.13	2.66	0
June	159	0.18	0.19	0	0	0	0	0.14	0	0	0	0.12	0	0	0.44	0	0.01	0.33	0
June	160	0	0	0.18	0	0	0	0.04	0	0	0	0	0	0.03	1.32	0.04	0.08	0	0.3
June	161	2.46	0	0.52	0	0	0	0	0	0	0	0	0	0	0.75	0.22	0	0	0.22
June	162	0.21	0	0	0	0	0	0.02	0	0	0	0	0	0	0.05	0	0	0	0.03
June	163	0.65	0	0	0	0.12	0.05	0.96	0.44	0.16	0	0.47	0	0	0	0	0	0	0.97
June	164	0	0	0.02	0	1	0	0.33	0.6	0	0.31	0	0	0.07	0	0	0	0	0.63
June	165	0.17	0	0.07	0.33	0	0	0.05	0	0	0	0	0	0	0.09	0	0	0.31	0.78
June	166	0	0	0.23	0.15	0	0.02	0.08	0.05	0	0	0	0	0.73	0.96	0	0	0	0.59
June	167	0	0.03	0.55	0.37	0	0.02	0.16	0.11	0	0	0	0	0.5	0.86	0	0	0.27	0.29
June	168	0	0.15	0	0.11	0.09	0.03	0.25	0.06	0.17	0.1	0	0.25	0	0.02	0	0.25	0	0.02
June	169	0	0	0	0	0.18	0	0.71	0	0.03	0.75	0	0.37	0.02	0.1	0	0.1	0	0
June	170	0.08	0	0	0	0	0	0.27	0	0	0.25	0	0.55	1.05	0.22	0	0	0	0
June	171	0	0	0	0	0	0.36	0.05	0	0.33	0	0	0.22	0	0	0.06	0.01	0	0
June	172	0.04	0	0.09	0	0.03	0	0	0.3	0	0	0	0.43	0	0	0.21	0	0	0.08
June	173	0.06	0.04	0.02	0	0	0	0	0.66	0.25	0	0	0	0	0	0	0	0	0.06
June	174	0.33	0.32	0.03	0	0	0	0.24	0.04	0	0.03	0	0	0	0	0	0	0.21	0
June	175	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
June	176	0.05	0	0	0	0	0	0	0	0	0.28	0.09	0.2	0	0.3	0	0.13	0	0
June	177	0.37	0	0	0	0.08	0.18	0	0	0	0	0.13	0.41	1.53	0	0	0.02	0	0
June	178	0	0	0	1.5	0.14	0.05	0	0	0.58	0	0	0.18	0	0.11	0.5	0.19	0	0
June	179	0	0	0	0	0	0	0	0	0	0.04	0	0	0.17	0	0.55	0.1	0	0
June	180	0.03	0.02	0	0.05	0.36	0	0.19	0	0	0.65	0	0.21	0	0.06	0	0.24	0	0.05
June	181	0	0	0	0	0	0.43	0.43	0	0	0	0	0.18	0	0	0.02	0.43	0.68	0.34
July	182	0	0	0	0	0	0	0.26	0	0.08	0	0	0.14	0	0.17	0	0	0.64	0.84
July	183	0	0	0	0.2	0	0.13	0.03	0	0	0	0	0	0.99	0.1	0.21	0	0.17	0.89
July	184	0.18	0	0	0.22	0	0	0.34	0	0	0	1.35	0	0	0	0.23	0	0.08	0
July	185	0.61	0	0	0	0	0	0.21	0	0	0	0.04	0	0	0	0	0	0	0
July	186	0.37	0.05	0	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	187	0	0	0	0.42	0	0	0.08	0	0.04	0.35	0	0.35	0	1.3	0	0	0	0
July	188	0	0	0	0	0	0	0	0	0	0.13	0	0.09	0	0	0	0	0	0.45
July	189	0.7	0.03	0.09	0	0	0	0	0.19	0	0	0	0.34	0	0.31	0	0.07	0	0.5
July	190	0.04	0.38	0	0.64	0	0	0.43	0	0	0.66	0	0.04	0	0.3	2.2	0.11	0	1.18
July	191	0	0	0	0	0.09	0.07	0	0	0	0.02	0	0	0	0.23	1.33	0	0	0
July	192	0.02	0	0	0	0.16	0	0	0	0	0	0	0	0.06	0.17	0	0	0	0
July	193	0	0	0	0	0	0	0.1	0.03	0	0	0	0	0.09	0	1.05	0	0	0
July	194	0	0	0	0	0	0	0	0	0.21	0	0.05	0.47	0	0	0	0	0.05	0
July	195	0	0	0	0	0	1.08	0.06	0	0	0	0	0.02	0	0	0.14	0.27	0	0
July	196	0	0	0	0	0	0.13	1.52	0	0	1.5	0	0.02	0	0	0	0	0	0
July	197	0	0	0	0	0	0	0.6	0.06	0	0.68	0.05	0	0	0.22	0	0	0	0
July	198	0.31	0	0	0	0.02	0	0.42	0.45	0	0	0	0	0	0	0.02	0	0	0.11
July	199	0.11	0.46	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0.12	0
July	200	1.22	0.28	0	0.23	0	0	0	0.27	0	0	0	0	0.02	0	0	0.04	0.02	0.02

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
July	201	0.36	0	0	0	0	0	0	0	0	0	0.23	1.1	0	0	0	0.04	0	0
July	202	0	0.11	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37
July	203	0	0	0.12	0	0.09	0.71	0	0	0	0	0	0	0	0	0	0	0	0
July	204	0	0	0.8	0	0	0.1	0.03	0	0	0	0	0	0	0.6	0.62	0	0.05	0
July	205	0.04	0	0	0.3	0	0	0	0	0	0.1	0	0	0	1.22	1.01	0	0	0
July	206	0	0	0	0	0	0	0.21	0	0	0.2	0	0	0	0	0	0	0	0
July	207	0.05	0	0	0	0	0	0	0.06	0	0	0	0.1	0	0	0.45	0	0	0
July	208	0	0	0	0	0	0	0	0	0	0	0.15	0	0	0.29	0.05	0	0	0
July	209	0	0.21	0	0	0	0.23	0	0	0	0	0	0	1.07	0.49	0.03	0	0	0
July	210	0	0	0	0	0	0.35	0.27	0.3	0	0	0	0	0.14	0	0	0	0.1	0.46
July	211	0	0	0	0	0.25	0	1.13	0.2	0.1	0	2.11	0	0.33	0	0	0	0	0
July	212	0	0	0.23	0	0	0	0.32	0.72	0	0	0.42	0	0	0	0	0.3	0	0
Aug	213	0	0	0	0	0	0.86	0.77	0	0	0	0	0	0.1	0.12	0.01	0	0	0
Aug	214	0	0	0.52	0	0	0	0.17	0	0	0	0	0.44	0.93	0.21	0	0.04	0	0
Aug	215	0	0	0.21	1.08	0	0	0	0	0	0	0.12	0	0	0.48	0.56	0	0	0
Aug	216	0	0	0	0.27	0	0	0	0.09	0	0	0.25	0	0	0.74	0.3	0	0	0
Aug	217	0	0.46	0.46	0.02	0.31	0	0	0.04	0	0.6	0	0	0	0.17	0.3	0.04	0	0
Aug	218	0.21	0.32	0.55	0	0	0	0	0	0.24	0.03	0	0.4	0.01	0	0	0	0	0
Aug	219	0	0.44	0	0.04	0.07	0	0	0.35	0	0.97	0	0.01	0	0	0.13	0.15	0	0.04
Aug	220	0.62	0.08	0	0.13	0	0	0	0	0	0	0	0	0	0.22	0.69	0.02	0.41	0
Aug	221	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.98	0.38	0	0
Aug	222	0	0.08	0	0	0	0	0.04	0.05	0	0	0.25	0	0	0.2	0	0.11	0.05	0.05
Aug	223	0	0	0	0	0	0.57	0	0.06	0.13	0	0	0.06	0.1	0	0	0	0.51	0.23
Aug	224	0.45	0.15	0	0	0	0	0	0	0	0	0	0.46	0	0	0	0	0	0.5
Aug	225	0.08	0	0	0	0.82	0	0	0	0	0.28	0	0	0.04	0	0	0	0	0.51
Aug	226	0	0.09	0	0.03	0	0	0	0	0.34	0	0	0	0	0	0	0	0	0
Aug	227	0	0	0	0.03	0	0	0.63	0	0	0	0	0	0	0	0.5	0	0	0
Aug	228	0.03	0	0.02	0.45	0.03	0	0.19	0.16	0.82	0	0	0	0.27	0	0.25	0	0	0.17
Aug	229	0	0	0.35	0	1.87	0	0.02	0.43	0	0	0	0	0	0	0	0.3	0	0
Aug	230	0	0	0.15	0.1	0	0	0.4	0	0	0.32	0	0	0	0	0	0.51	0	0
Aug	231	0	0	0.17	0.69	0	0.39	0.02	0	0	0	0	0	0	0	0	0	0	0
Aug	232	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.08	0	0	0
Aug	233	0	0	0	0.1	0	0	0.13	0.16	0	0	0	0	0	0	0.55	0	0	0
Aug	234	0	0	0	0	0	0	0	0.45	0	0	0	0	0	0	0	0.17	0	0
Aug	235	0	0	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	236	0	0.2	0.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	237	0	0	0	0	0	0	0.1	0	0	0	0	0	0.02	0	0	0	0	0
Aug	238	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0.22	0	0	0
Aug	239	0	0	0.09	0	0.03	0	0	0.22	0.03	0	0	0	0	0	0	0	0	0
Aug	240	0	0.05	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0.42
Aug	241	0	0	0	0	0	0	0	0	0	0	0	0.32	0.03	0	0	0	0	0
Aug	242	0	0	0	0.1	0	0	0	0	0	0	0	0.13	0	0	0	0	0	0
Aug	243	0	0	0	0.03	0	0	0	0.38	0	0	0	0	0	0	0.07	0	0	0
Sept	244	0.42	0	0	0	0	0.94	0	0.22	0	0	0	0	0	0	0.12	0	0	0
Sept	245	0.24	0.03	0.21	0	0	0	0	0	0	0.64	1.38	0.22	0	0	0	0	0	0
Sept	246	0	0	0	0	0	0	0	0	0	0.08	0.25	0.3	0	0	0	0	0.32	0.45
Sept	247	1.03	1.5	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0.01	0.23
Sept	248	0	0	0	0	0	0	0.93	0	0	0	0	0	0	0	0	0	0	0.13
Sept	249	0	0	0.57	0.03	0.04	0	0	0	0	0	0	0	0	0	0.05	0	0	0
Sept	250	0	0	0.02	0	0.3	0.07	0	0	0	0	0	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Sept	251	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0	1.07
Sept	252	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0	0	0	0	0
Sept	253	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0.3	0	0
Sept	254	0	0.28	0	1.35	0	0	0.05	0	0	0	0	0	0	0	0.06	0	0	0.01
Sept	255	0.14	0	0	0	0	0.02	0.12	0	0	0	0	0	0	0	0	0.12	0	0.03
Sept	256	0	0	0	0.15	0	0	0	0	0	0	0	0	0.02	0	0	0	0.22	0.01
Sept	257	0.04	0	0	0	0.1	0	0	0	0	0.28	0	0	0.04	0	0	0	0	0
Sept	258	0	0	0	0.41	0.1	0	0	0	0	0.5	0	0	0.14	0	0	0	0	0
Sept	259	0	0	0	0.46	2.35	0	0	0	0.34	0	0	0	0	0	0.65	0	0	0
Sept	260	0	0	0	0.15	0	0	0	0	0.42	0	0	0	0	0	1.34	0	0	0
Sept	261	0.12	0	0	0.02	0	0	0	0	0.08	0	0	0	0	0.16	0	0	0	0
Sept	262	0	0	0	0	0.1	0	0	0	0	0.09	0	0	0.09	0	0	0.58	0	0
Sept	263	0	0	0	0.2	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
Sept	264	0.34	0.06	0	0.21	0	0.46	0	0	0	0	0.08	0	0	0	0	0.14	0.27	0
Sept	265	0.03	0.74	0	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sept	266	0	0	0	0	0.17	0	0	0	0	0	0	0.12	0	0	0	0	0	0
Sept	267	0	0	0	0.19	0.08	0	0	0	0	0.8	0	0.12	0	0	0.02	0	0	0.08
Sept	268	0	0.43	0	0.49	0	0	0	0	0	1.15	0	0	0	0	0.05	0	0	0
Sept	269	0	0.09	0	0	0	0	0.51	0	0	0	0	0.09	0	0	0	0	0	0
Sept	270	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0.56	0	0
Sept	271	0	0	0	0.19	0	0	0.09	0.2	0	0	0.1	0	0	0	2.19	0.17	0	0
Sept	272	0	0	0	0.04	0	0	0.05	0.34	0	0	0.1	0	0	0	0.58	0	0	0
Sept	273	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.02	0
Oct	274	0	0	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
Oct	275	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.12	0	0	0
Oct	276	0	0	0.22	0	0	0	0.19	0	0	0	0.95	0	0	0	0	0	0	0.33
Oct	277	0	0.04	0	0	0.97	0.21	0.45	0	0	0	0.3	0	0	0	0	0	0	0.21
Oct	278	0	0	0	0	0.22	0	0	0.08	0	0	0.1	0	0	0	0	0.16	0	0.01
Oct	279	0	0	0	0.3	0.35	0	0.25	0	0	0	0	0	0	0.25	0	0	0.25	0
Oct	280	0.62	0	0	0.15	0	0.07	0	0	0.22	0	0	0	0	0	0.02	0	0	0
Oct	281	0	0	0	0	0	0.07	0	0.27	0	0	0	0	0	0	0	0	0	0
Oct	282	0	0	0	0	0	0	0	0.08	0	0	0.05	0	0	0	0	1.52	0	0
Oct	283	0.56	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0.4	0.35	0	0
Oct	284	0	0	0.03	0.16	0	0.33	0.04	0	0	0	0	0	0	0	0.11	0	0	0.01
Oct	285	0	0	0	0	0	0.09	0	0	0	0	0	0.09	0	0	0.21	0	0.15	0
Oct	286	0	0	0	0	0	0	0	0	0	0	0	0.44	0	0	0	0	0.03	0
Oct	287	0	0	0	0	0	0	0	0	0	0	0.47	0	0	0	0	0	0	0
Oct	288	0	0	1.12	0	0.03	0	0	0	0	0	0.08	0.02	0	0	0	0	0	0
Oct	289	0	0.09	0	0	0	0	0.58	0	0	0	0	0	0	0	0	0	0.13	0
Oct	290	0	0	0	0	0	0	0	0	0.23	0	0	0	0.05	0	0.1	0	0.06	0
Oct	291	0	0.62	0.09	0	0	0	0	0	0.71	0	0	0	0	0	0.1	0	0	0
Oct	292	0	0.21	0.2	0	0	0	0	0.22	0.03	0	0.58	0	0	0	0.42	0	0.08	0.47
Oct	293	0.02	0	0.15	0	0.06	0	0	0	0.32	0	0	0	0	0	0	0.5	0	0
Oct	294	0	0	0	0	0	0	0	0	0.09	0	0.03	0	0	0	0	0.31	0	0.03
Oct	295	0.13	0	0	0	0	0.79	0	0	0.4	0	0	0	0	0.25	0	0	0	0
Oct	296	0	0	0	0	0	0.46	0	0.37	0	0	0.13	0.29	0	0	0.11	0	0.2	0.1
Oct	297	0.08	0	0	0	0	0	0.07	0	0	0	0	0.03	0	0	0.65	0	0.19	0
Oct	298	0	0	0.45	0	0.6	0	0	0	0.15	0	0.44	0	0	0	0	0	0.44	0
Oct	299	0	0.42	0.04	0	0	0	0	0	0.15	0	0	0	0	0	0.25	0	0.02	0
Oct	300	0	0	0	0	0.23	0	0	0	0.09	0	0.03	0.33	0	0	0.06	0	0.28	0.04

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Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Oct	301	0	0	0	0	0.29	0	0	0	0.25	0.19	0	0	0.28	0	0.17	0	0	0
Oct	302	0	0	0	0.17	0.02	0	0	0.38	0.04	0.58	0	0	0	0	0.02	0	0	0.02
Oct	303	0	0	0	0.15	0	0	0	0	0	0.14	0	0	0	0.64	0	0	0	0
Oct	304	0	0	0.11	0.07	0	0	0	0	0	0	0	0.01	0	0	0	0.05	0	0
Nov	305	0	0.4	0.08	0.04	0	0	0	0	0	0	0	0.7	0	0.06	0	0	0	0
Nov	306	0	0	0	0	0	0	0	0	0	0	0.13	0.22	0	0.09	0	0	0	0
Nov	307	0	0.02	0	0	0.07	0	0	0	0	0	0	0	0	0.09	0	0	0	0.14
Nov	308	0	0	0	0	0	0	0	0	0	0	0	0	0	0.27	0	0	0.07	0
Nov	309	0	0	0.15	0	0	0	0	0	0	0	0.06	0	0	2.62	0	0	0	0
Nov	310	0	0	0.1	0	0.03	0	0	0	0	0.13	0	0	0	0	0	0.02	0	0
Nov	311	0	0	0	0	0	0	0.03	0	0	0	0	0	0.01	0	0	0.39	0.02	0.65
Nov	312	0	0	0	0	0	0	0	0	0	0.25	0.38	0	0.15	0	0	0.02	0	0.1
Nov	313	0	0.19	0.05	0	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0
Nov	314	0.03	0	0	0	0	0	0	0	0	0	0	0.2	0.14	0	0	0	0	0
Nov	315	0.01	0	0.35	0	0	0	0	0.59	0	0	0.15	0	0.1	0.05	0	0	0	0
Nov	316	0.01	0	0	0	0	0	0	0.22	0	0	0	0.03	0	0.04	0.19	0.06	0.16	0
Nov	317	0.04	0.08	0	0	0	0	0.1	0.09	0	0	0	0	0	0.24	0.05	0	0	0.01
Nov	318	0	0	0	0	0.1	0.08	0.05	0	0	0	0	0	0.02	0.14	0	0	0	0
Nov	319	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	320	0	0	0.43	0	0	0	0	0	0	0	0	0	0.05	0	0	0.02	0	0.02
Nov	321	0	0	0	0	0	0.05	0.43	0.08	0	0	0	0	0.26	0	0	0	0	0.1
Nov	322	0	0	0.74	0	0	0.06	0.25	0	0	0	0	0	0.02	0.42	0	0	0	0
Nov	323	0	0.04	0.1	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0.03
Nov	324	0.23	0.06	0.09	0	0	0	0.18	0	0	0	0	0	0.07	0	0	0	0	0.08
Nov	325	0.07	0	0	0	0	0	0	0.2	0	0.08	0	0.16	0.09	0	0.04	0.1	0.02	0
Nov	326	0	0.05	0	0	0	0	0	0	0	0.06	0	0.04	0	0	0	0	0	0
Nov	327	0	0.11	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.3	0	0.01
Nov	328	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0.08	0	0
Nov	329	0	0	0	0	0	0	0.24	0	0	0	0.15	0	0	0	0.06	0	0	0.05
Nov	330	0	0	0.26	0.06	0	0	0	0	0.03	0	0.2	0	0.09	0	0	0	0.09	0
Nov	331	0.41	0	0.22	0.04	0	0	0.11	0	0	0	0.03	0	0	0	0.08	0	0.02	0
Nov	332	0	0	0.1	0	0	0	0.23	0	0	0	0	0.1	0.03	0	0	0.41	0	0
Nov	333	0	0.21	0	0	0	0	0	0	0	0.06	0.02	0	0	0	0	0.1	0	0
Nov	334	0	0	0	0	0	0.01	0.02	0	0	0	0.08	0	0	0.11	0	0	0	0.02
Dec	335	0.28	0	0	0	0	0	0	0	0	0.08	0.19	0	0	0	0.01	0	0	0
Dec	336	0	0	0	0.07	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	337	0.16	0	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0.19	0
Dec	338	0.07	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
Dec	339	0	0.16	0	0.04	0	0	0	0	0.18	0	0	0	0	0.02	0	0	0.15	0
Dec	340	0	0	0	0.03	0	0.03	0	0	0	0	0	0.3	0	0	0	0	0	0
Dec	341	0	0	0	0.03	0	0.18	0	0	0.09	0	0.23	0	0	0.02	0.08	0.02	0.07	0
Dec	342	0	0	0	0.12	0	0.15	0	0.55	0.05	0	0	0	0	0	0	0.27	0	0
Dec	343	0	0.12	0	0.2	0	0	0	0	0.28	0.06	0	0	0	0	0	0.03	0	0
Dec	344	0.14	0	0	0	0	0	0.18	0	0	0.17	0	0	0	0	0	0	0	0
Dec	345	0.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	346	0	0	0.07	0.02	0	0	0	0.06	0.18	0	0.14	0	0	0	0	0.06	0	0.11
Dec	347	0.82	0	0	0	0	0	0	0.56	0.14	0	0	0.04	0	0.1	0	0	0	0
Dec	348	0.08	0	0.05	0	0	0	0	0.01	0.04	0	0	0	0	0.07	0	0.09	0.13	0.01
Dec	349	0.06	0	0.14	0.03	0	0.04	0	0	0.09	0	0	0.04	0	0	0	0	0.03	0
Dec	350	0.59	0	0	0	0	0	0.02	0	0	0	0	0	0.37	0.04	0	0	0	0.01

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
Dec	351	0.12	0	0	0.05	0	0	0.07	0	0	0	0	0	0	0	0	0	0	0.03
Dec	352	0	0	0	0.07	0	0.01	0.08	0.2	0	0	0	0	0	0	0	0.05	0	0
Dec	353	0.07	0.05	0	0	0.03	0	0	0.07	0	0	0	0.11	0.25	0	0	0	0	0
Dec	354	0.05	0	0.28	0.07	0	0	0	0.37	0.3	0	0	0	0.04	0	0	0	0.03	0.01
Dec	355	0	0	0.4	0	0	0	0	0	0	0.42	0	0	0.13	0	0	0	0.05	0
Dec	356	0	0.03	0.06	0.05	0	0	0.12	0	0	0.18	0	0.1	0	0	0	0.03	0	0
Dec	357	0	0.02	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0.02	0
Dec	358	0	0.02	0.1	0	0.04	0	0.01	0	0.2	0	0	0.03	0.05	0	0	0.05	0.25	0
Dec	359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.19	0
Dec	360	0.08	0	0.2	0.03	0	0	0.03	0	0	0	0	0.03	0	0	0.04	0	0.25	0
Dec	361	0.15	0	0	0	0	0	0	0.13	0	0	0.14	0.08	0	0	0.04	0	0	0
Dec	362	0.75	0.1	0	0	0	0.08	0	0	0.08	0	0	0	0	0	0	0.03	0	0.04
Dec	363	0	0	0.04	0	0	0.02	0.36	0	0.04	0	0	0	0	0	0.09	0	0	0
Dec	364	0	0	0	0	0	0	0.05	0	0.49	0.1	0	0	0.11	0.83	0.15	0	0	0
Dec	365	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0.03	0.02	0	0
29 Feb	366				0				0				0.1				0.19		

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Jan	1	0	0	0.01	0	0	0	0	0	0	0	0.02	0	0	0	0.03	0.04	0	0
Jan	2	0	0.07	0	0.08	0	0	0	0	0	0	0.02	0	0	0	0	0.11	0.03	0
Jan	3	0.02	0	0.05	0	0	0	0	0	0	0.05	0	0	0	0.02	0.03	0.07	0.11	0.03
Jan	4	0	0	0.17	0	0.03	0	0	0.6	0	0	0.18	0	0.07	0	0	0	0	0.16
Jan	5	0	0.03	0	0	0	0	0	0.02	0	0.07	0.06	0	0	0	0.01	0	0	0
Jan	6	0	0	0.05	0.05	0	0.23	0.01	0.4	0	0	0.04	0.24	0	0	0	0.02	0.08	0
Jan	7	0.05	0.04	0.03	0	0.02	0.14	0	0.05	0	0	0.07	0.03	0	0.07	0	0	0.1	0.08
Jan	8	0	0	0	0	0	0.14	0	0	0	0	0.02	0.04	0	0	0	0	0	0
Jan	9	0	0	0.08	0	0	0	0	0	0	0	0	0.01	0	0.04	0	0.02	0.02	0
Jan	10	0	0	0	0	0	0.17	0.05	0	0	0	0	0.13	0.15	0	0	0	0	0
Jan	11	0	0	0.1	0	0.15	0	0	0	0	0	0	0.14	0.04	0.09	0	0	0	0
Jan	12	0.15	0	0.03	0	0.03	0.17	0.08	0.18	0	0.04	0	0	0.04	0	0	0	0	0
Jan	13	0.01	0.09	0.09	0.08	0	0	0.08	0	0	0	0	0.06	0.01	0	0	0	0	0
Jan	14	0.01	0.06	0.02	0.1	0	0	0	0	0	0.05	0	0	0.57	0.03	0	0	0.3	0
Jan	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0.17	0
Jan	16	0	0	0.03	0.05	0	0	0.03	0	0	0.08	0	0.18	0.07	0	0.09	0	0.26	0
Jan	17	0.08	0	0	0.02	0.03	0	0	0	0	0.12	0.02	0.01	0.01	0.09	0.01	0	0	0
Jan	18	0.02	0.16	0	0	0.15	0	0.02	0	0	0.02	0	0	0.03	0.01	0	0	0	0
Jan	19	0	0.01	0.06	0.03	0.15	0	0.15	0	0.01	0.06	0.01	0	0.01	0	0	0	0	0
Jan	20	0.15	0	0.01	0.09	0	0	0	0	0.08	0.04	0.03	0	0	0	0	0	0	0
Jan	21	0.03	0	0	0.02	0	0	0	0	0	0.01	0.01	0	0.11	0	0.01	0	0	0
Jan	22	0	0	0.02	0	0	0.03	0	0	0	0.1	0	0	0	0	0.01	0	0	0
Jan	23	0	0	0.09	0.03	0	0	0	0	0	0.06	0	0.1	0	0.02	0.04	0	0	0
Jan	24	0	0.03	0	0.02	0	0	0	0.07	0	0.12	0.03	0.16	0	0.01	0	0	0	0
Jan	25	0	0	0	0.02	0	0	0	0	0	0.02	0	0.07	0.13	0	0	0	0	0.22
Jan	26	0	0	0	0	0	0	0	0	0	0	0	0.34	0	0	0	0.05	0	0
Jan	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0	0	1.68
Jan	28	0	0	0	0	0	0.15	0	0	0	0	0	0	0	0	0	0	0	0.36
Jan	29	0.06	0	0	0	0	0	0.06	0	0	0	0	0.03	0	0	0	0.04	0	0.07
Jan	30	0	0.05	0	0.1	0	0	0	0	0	0.02	0.01	0.01	0	0	0	0.03	0.02	0.07
Jan	31	0	0.04	0	0	0	0	0	0	0	0	0	0	0.06	0	0	0.12	0	0
Feb	32	0	0	0	0	0	0	0.02	0	0	0	0	0	0.35	0.04	0	0	0	0
Feb	33	0	0	0	0	0	0	0.08	0	0	0.11	0	0	0	0	0	0	0	0
Feb	34	0	0	0	0	0	0	0.13	0	0	0.08	0	0	0	0.01	0	0	0.1	0
Feb	35	0	0	0	0	0	0	0.26	0	0	0.03	0	0	0	0	0	0.01	0	0
Feb	36	0.02	0	0.21	0	0	0	0	0	0	0	0.01	0.01	0	0.14	0	0.05	0.01	0.16
Feb	37	0	0	0.05	0	0.02	0	0.19	0	0	0	0	0	0	0	0	0.02	0	0
Feb	38	0	0	0	0.02	0	0	0	0	0.12	0.07	0.13	0	0.01	0.23	0	0	0	0
Feb	39	0.02	0	0	0	0	0	0	0	0	0.01	0	0	0	0.04	0	0	0	0
Feb	40	0	0	0.03	0	0	0	0	0	0	0	0	0	0.03	0	0	0.11	0.12	0.03
Feb	41	0	0	0.05	0	0	0	0	0.02	0	0	0	0	0.01	0	0	0	0.05	0.14
Feb	42	0	0	0.02	0.02	0	0.13	0.02	0	0	0.04	0	0	0	0.22	0	0	0.12	0.02
Feb	43	0.01	0	0.03	0	0.05	0	0.13	0	0	0.01	0	0	0	0.18	0.02	0	0	0.04
Feb	44	0.05	0	0.04	0	0	0	0.11	0	0	0.01	0.14	0	0.07	0	0.23	0.09	0	0.15
Feb	45	0	0	0.02	0.05	0	0.02	0	0	0.05	0	0	0	0	0	0	0.01	0	0.1
Feb	46	0	0.07	0.01	0	0	0	0	0	0	0.03	0.17	0.08	0	0.01	0	0.03	0	0.06
Feb	47	0	0.18	0.05	0	0	0.02	0	0	0	0.09	0	0.09	0.16	0.07	0	0.16	0	0
Feb	48	0	0.18	0.06	0	0.09	0	0	0	0	0.04	0	0	0	0	0	0.04	0	0.25
Feb	49	0	0.03	0.05	0	0	0	0	0.1	0	0	0.02	0	0	0	0	0.07	0	0
Feb	50	0.07	0.01	0	0	0	0	0.1	0	0	0	0	0	0.07	0	0	0.03	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Feb	51	0	0	0.02	0	0	0	0	0.03	0	0	0.04	0	0	0.02	0.01	0	0.01	0
Feb	52	0.01	0	0.07	0	0.26	0	0	0.2	0.26	0.01	0	0	0.04	0.09	0	0	0	0
Feb	53	0	0.05	0	0.02	0	0	0	0	0.06	0	0.09	0.15	0	0	0	0	0	0
Feb	54	0	0	0	0	0	0	0	0	0	0	0.02	0	0.01	0.03	0	0.06	0.32	0
Feb	55	0.12	0	0.06	0.16	0	0	0	0.03	0.19	0.01	0	0.05	0.03	0.02	0.01	0	0	0
Feb	56	0	0	0.02	0.05	0	0	0	0.04	0	0	0.01	0	0.04	0	0.04	0	0.02	0
Feb	57	0	0	0.12	0	0.06	0	0	0	0	0	0	0	0.11	0	0	0.02	0.01	0
Feb	58	0.04	0	0.05	0	0	0	0	0	0	0	0	0	0.14	0	0	0	0	0.1
Feb	59	0.07	0	0.19	0.15	0.01	0	0	0	0	0	0	0	0	0	0	0	0.13	0
Mar	60	0.01	0.03	0.02	0.02	0.03	0	0	0.02	0	0	0	0	0	0	0	0	0.17	0
Mar	61	0	0	0.11	0.02	0	0	0	0	0	0.04	0	0	0	0.01	0.03	0	0.02	0
Mar	62	0	0	0.19	0	0	0	0	0.28	0	0	0.06	0	0	0	0.01	0	0	0
Mar	63	0	0	0.03	0	0.05	0.08	0.88	0	0.75	0	0	0.01	0.08	0.02	0	0.08	0.03	0
Mar	64	0.03	0	0	0	0.27	0.03	0.34	0	0.2	0.01	0	0.04	0.05	0	0	0	0.11	0
Mar	65	0.05	0	0.07	0.7	0.05	0.02	0	0.19	0	0	0	0	0	0.02	0.04	0.16	0	0
Mar	66	0.01	0	0	0.15	0.19	0.09	0	0.02	0	0	0	0	0	0.37	0	0.05	0	0
Mar	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0	0.08
Mar	68	0.22	0	0	0.02	0	0.01	0.05	0.07	0	0	0	0	0	0	0.37	0	0.36	0
Mar	69	0.02	0	0	0	0	0	0	0	0.07	0	0	0	0	0.26	0.12	0.04	0	0.02
Mar	70	0.03	0	0	0	0	0	0	0	0	0.15	0.04	0	0	0	0.16	0	0	0
Mar	71	0	0	0.71	0	0	0	0	0	0	0.07	0.03	0	0	0.14	0.06	0	0	0.19
Mar	72	0	0.18	0.45	0.15	0	0	0.15	0.06	0	0	0.05	0	0	0.12	0.01	0	0	0.01
Mar	73	0	0.02	0.6	0	0	0	0	0	0	0.19	0	0.02	0.07	0.02	0	0.13	0	0.16
Mar	74	0.04	0	0.21	0	0	0	0	0.06	0.09	0	0.02	0.23	0.02	0	0	0.15	0.52	0.1
Mar	75	0	0.12	0	0.01	0	0	0	0.14	0.02	0.12	0	0	0.09	0	0.11	0	0.14	0.07
Mar	76	0	0.02	0	0	0.02	0	0	0.04	0	0.02	0.05	0	0	0	0	0	0	0.02
Mar	77	0.01	0.02	0	0	0	0.02	0.15	0	0.02	0	0	0.05	0	0.18	0	0.02	0.06	0.46
Mar	78	0.01	0	0	0	0.17	0.13	0.1	0	0	0.03	0	0	0	0	0	0.16	0.02	0.16
Mar	79	0	0	0	0.02	0.01	0.02	0	0	0.09	0	0	0	0	0.13	0	0.13	0	0
Mar	80	0	0	0	0	0.01	0.1	0.02	0.17	0.04	0	0.06	0	0	0.03	0.05	0	0	0.06
Mar	81	0.18	0	0.21	0.1	0.12	0	0.1	0.17	0	0	0	0	0	0.25	0.02	0	0	0.02
Mar	82	0.11	0	0.05	0.02	0.4	0.26	0.1	0.01	0	0	0.06	0	0	0	0	0	0	0
Mar	83	0.05	0	0.02	0.3	0.04	0	0.03	0	0	0.21	0.65	0	0	0	0.06	0	0	0
Mar	84	0.09	0	0	0.1	0	0	0	0	0	0.11	0.02	0.35	0	0	0.09	0.06	0	0.3
Mar	85	0	0.35	0	0.19	0.18	0.17	0	0	0.04	0.12	0	0	0.04	0	0	0	0	0
Mar	86	0	0.17	0	0.1	0.09	0.09	0.16	0	0	0	0	0	0.11	0	0.11	0.06	0	0
Mar	87	0	0.11	0	0	0	0.03	0	0.06	0	0	0	0	0	0	0	0	0	0.07
Mar	88	0	0.06	0	0	0	0	0	0.07	0.05	0	0	0.07	0	0.33	0	0.09	0	0.08
Mar	89	0	0.04	0	0.02	0	0.04	0.01	0	0.12	0.27	0	0.03	0	0	0	0	0	0
Mar	90	0.42	0	0.16	0.02	0	0.03	0	0.09	0.1	0.07	0	0.03	0.08	0	0	0	0	0.3
Apr	91	0.02	0	0	0	0.32	0.02	0.06	0	0.13	0.1	0	0.02	0.13	0	0	0	0	0.01
Apr	92	0	0	0	0	0.35	0	0	0.02	0.02	0.06	0	0	0.26	0	0.14	0.24	0	0.2
Apr	93	0.23	0	0	0	0.21	0	0	0.46	0	0.02	0.1	0	0	0.21	0	0	0	0
Apr	94	0.04	0	0	0	0	0	0.13	0.45	0.23	0	0	0	0	0.16	0	0.03	0	0
Apr	95	0	0	0.03	0	0	0.54	0.57	0.14	0	0.11	0	0.18	0.43	0.03	0	0	0	0
Apr	96	0	0.18	0.29	0	0	0	0	0	0.1	0.1	0	0.81	0.19	0	0.48	0	0	0
Apr	97	0	0.27	0.22	0	0	0	0	0	0	0.11	0	0	0.05	0	0.04	0	0	0
Apr	98	0	0.12	0	0	0	0	0.06	0	0	0.08	0	0	0.03	0.12	0	0	0	0.02
Apr	99	0.44	0.1	0.07	0	0	0	0.25	0.01	0.07	0	0	0	0	0	0	0	1.09	0.03
Apr	100	0.25	0	0.51	0	0	0.24	0.05	0	0.69	0.35	0	0	0.21	0.07	0	0	1.25	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Apr	101	0.14	0.1	0	0.02	0	0	0	0	0.04	0	0	0.11	0.26	0.07	0	0	0.18	0
Apr	102	0.53	0.25	0	0	0	0	0.06	0	0	0	0.15	0	0	0.27	0	0.02	0	0
Apr	103	0.46	0	0.09	0	0	0	0	0	0	0	0	0	0	0	1.01	0.11	0.1	0
Apr	104	0.61	0.37	0.08	0.12	0	0	0	0.3	0	0	0.19	0	0	0	2.8	0	0	0
Apr	105	0.57	0	0.03	0	0	0	0	0	0	0	0	0.97	0	0	0.02	0	0	0
Apr	106	0.01	0.1	0	0.08	0	0	0	0	0	0	0.06	0.21	0.59	0.05	0.31	0	0	0.31
Apr	107	0	0	0	0	0	0.14	0	0	0	0	0	0.14	1.03	0.64	0.13	0	0	0
Apr	108	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0.09	0	0.4	0	0
Apr	109	0.08	0.07	0	0.24	0	1.01	0.07	0	0	0	0	0.18	0.02	0	0.03	0.47	0	0
Apr	110	0.23	0.1	0	0	0.15	0	2.02	0	0	0	0	0	0.08	0.09	0.11	0	0	0
Apr	111	0	0.01	0	0	0.01	0	0.52	0	0	0	0	0	0	0	0.04	0	0	0
Apr	112	0	0	0.02	0.02	0.17	0	0.05	0	0	0	0.04	0	0	0.37	0.08	0	0.02	0.09
Apr	113	0.04	0	0.25	0	0	0	0	0	0.02	0	0	0.32	0	0.77	0	0.36	0	0.29
Apr	114	0	0	1.77	0	0	2.2	0	0	0.54	0	0	0	0.02	0	0	0.49	0	0.16
Apr	115	0	0	0.02	0.26	0	2.24	0	0	0.05	0	0	0	0.3	0	0	0.54	0	0
Apr	116	0	0	0	0.01	0	0.28	0.05	0	0	0.03	0	0.08	0	0	0.02	0.05	0.03	0
Apr	117	0	0	0	0.02	0	0.16	0.3	0	0	0	0	0	0	0	0.07	0.13	0.05	0
Apr	118	0	0	0	0	0	0	0	0	0.05	0.09	0.02	0	0	0.02	0.03	0.01	0	0
Apr	119	0	0	0	0.17	0	0.16	0.01	0	0.01	0	0.05	0	0	1.75	0.22	0.07	0.02	0
Apr	120	0	0	0	0.02	0.04	0.21	0.19	0	0	0.09	0.1	0	0	0.16	0.01	0.62	0.13	0
May	121	0	0	0.32	0	0.18	0.06	0.3	0	0.21	1.6	0.04	0.48	0.08	0.02	0.36	1.19	0	0.79
May	122	0	0	0	0	0	0	0	0	0	0.03	0.26	0.1	0.11	0.03	0	0	0	0.13
May	123	0	0.18	0.29	0.03	0	0	0.03	0.27	0	0	0.15	0.57	0	0	0.06	0.06	0	0.18
May	124	0.13	0	0.24	0.18	0.34	0.16	0	0.05	0	0	0	0.08	0	0	0	0.1	0	0.48
May	125	0	0	0.11	0.06	0	0	0	0	0	0	0	0	0	0	0.15	0.7	0.33	0.05
May	126	0.67	0	0.04	0.48	0	0.02	0.01	0	0.05	0	0	0.42	0	0	0.08	0.07	0	0
May	127	0.21	0	0.18	0.08	0	1.12	0.15	0.01	0.39	0	0.26	0	0.07	0	0	0	0	0
May	128	1.07	0	0.08	0	0.47	0.01	0.15	0	0	0	0.05	0.02	0.18	0.08	0	0	0.27	0.04
May	129	0.55	0	0	0.21	0	0	0.29	0	0	0	0.01	0	0	0	0	0.04	0	0
May	130	0.12	0	0	0.05	0.01	0.02	0.13	0	0	0	0	0.12	0	0	0	0.02	0	0
May	131	0	0	0	0.3	0	0	0.04	0	0.03	0	0	0.18	0	0	0.02	0.15	0.24	0.03
May	132	0.09	0	0	0.48	0	0.09	0.38	0	0	0	0	0.13	0.15	0	0	1.11	0	0
May	133	0.02	0	0	0.2	0	0.35	0.05	0	0.28	0	0	0.17	0	0.12	0	1.67	0	0
May	134	0	0.33	0	0	0	0	0	0	0.05	0	0	0	0	0.98	0	0	0	0
May	135	0	0.62	0.1	0	0	0	0	0	0.16	0	0	0	0	0.02	0	0	0	0.21
May	136	0	0.26	0	0	0	0.38	0	0	0	0	0	0	0	0	0	0.64	0	0
May	137	0	0.02	0	0	0	0.08	0	0	0	0	0	0.09	0	0	0	0.79	0.02	0.07
May	138	0.15	0.01	0	0	0	0	0	0	0.02	0	0	0.04	0	0.02	0	0	0	0.01
May	139	0	0.68	0	0	0.15	0	0.18	0	0.55	0.05	0	0.14	0	0.04	0.41	0.03	0.21	0.03
May	140	0.05	0.5	0	0	0	0	0	0	0.81	0	0.24	0.57	0	0	0	0	0	0
May	141	0.42	0.25	0	0	0	0.14	0.3	0.05	0.04	0	0.26	0.17	0	0.04	0	0.06	0	0.02
May	142	0.03	0	0	0	0	0	0.14	0	0.32	0.04	0	0	0	0	0	0	0	0
May	143	0	0	0	0	0	0	5.05	0	0	0.02	0	0.05	0	0	0	0	0.26	0
May	144	0.03	0	0	0	0	1.09	0	0	0	0.03	0.1	0.08	0.46	0	0	0	0.08	0.03
May	145	0.05	0	0.12	0	0	0	0	0	0	0	0	0.22	0.06	0	0	0	0	0.76
May	146	0	0	2.19	0	0	0.53	0	0	0	0	0	0.01	0	0	0	0	0	0.02
May	147	0.03	0	0.06	0	0.79	0.43	0.23	0	0	0	0	0	0	0	0.06	0	0	0
May	148	0	0	0	0	0.04	0.03	0	0	0.01	0	0	0	0	0	0	0.04	0	0
May	149	0.31	0.08	0.93	0	0	0	0	0	0.68	0	0	0.36	0	0	0.02	0.02	0.12	0.17
May	150	0	0	0	0	0	0	0	0	0.03	0	2.22	0.06	0	0.45	0.35	0.13	0.3	0.05

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
May	151	0.24	0.13	0	0.05	0	0.62	0	0.09	0.45	0.67	0.41	0.53	0.12	0.74	0.33	0.24	0	0.09
June	152	1.22	0.17	0.02	0.55	0.01	0.63	0	0	0.73	0	0.02	0.28	0.27	0	0.65	0	0.18	0
June	153	0	0	1.02	0	0	0.26	0.71	0.26	0.01	0.58	0	0	0.23	0	0	0.54	0.02	0
June	154	0.05	0.04	0	0.22	0	0	0	0.1	0.11	0.22	0	0	0	0	0	0	0.11	0.06
June	155	0.17	0.16	0	0	0.44	0	0	0.33	0	0	0.68	0	0	0.95	0	1.02	0.07	0.97
June	156	0.04	0.13	0.02	0.28	0.04	0	0	0	0	0.01	1.6	0	0	0.69	0.63	0	0.03	0.4
June	157	0.15	0.13	0.05	0	0	0	0	0.14	0.18	0.1	0.13	0.12	0	0	1.02	0	0.9	0.33
June	158	0	0.02	0.05	0	0	0	0	0.26	0	0	0	0	0	0	0.26	0	0.19	0
June	159	0	0	0	0.05	0	0.34	0	0	0	0	0	0	0	0	0.58	0	0.63	0.55
June	160	0.01	0.07	0	0.73	0	0.73	0	0.01	0	0	0	0	0.2	0	0.22	0.02	0.22	0.35
June	161	0	0.06	0	0.04	0.34	0.12	0	0	0.88	0.31	0	0.13	0.46	0.05	3.13	0	0.29	0
June	162	0.29	0	0.13	0	0.04	0.12	0.3	0	0.02	0	0	0	0.34	0	1.58	0	0.31	0.04
June	163	0.33	0.21	0.35	0	0.07	0.05	0	0.01	0	0	0.33	0	0.02	0	0	0	0.01	0.01
June	164	0	2.35	0.01	0	0.07	0.26	0	0.11	0	0	0.3	0	0	0	0.01	0	0.21	0.01
June	165	0	0.03	0	0	0	0.19	0	0.04	0.02	0	0.24	0	0	0	0	0.22	0	0
June	166	0.09	0.12	0	0	0	0	0.33	0	0	0	0.57	0.02	0.1	0	0.49	0	0.75	0
June	167	0.11	0.24	0	0	0	0	0	0.55	0.14	0	0	0	0.64	0	0	0.03	0.09	0.05
June	168	0.19	0	0	0	0	0.53	0	0.92	0.39	0.11	0	0	0.01	0.1	0	0	0.05	0.15
June	169	0.09	0	0	0.02	0	0.06	0	0	0.3	0	0.43	0	0.2	0	0	0	0	0.85
June	170	0	0.17	0	0	0	0	0	0.02	0	0	0	0.18	0	0	0	0.13	0	0.01
June	171	0.33	0.11	0	0.22	0	0.27	0.12	0.13	0.17	0	0	0	0	0	0	0.09	0	0
June	172	0.18	0	0	0	0	0	0	0	0.03	0	0	0	0.28	0.71	0	0.26	0	0
June	173	0.19	0.1	0	0.01	0.02	0	0.05	0	0	0.09	0	0	0.27	0	0	0	0	0
June	174	0	0.08	0.3	0.25	0	0	0	0	0	0	0	0.06	0	0	0	0	0	0.22
June	175	0	0.75	0	0.02	0	0	0.64	0	0.14	0	0	0.06	0	0.99	0	0	0	0
June	176	0	0.33	0	0.3	0	0.08	0	0.69	0.09	0	0.44	0.39	0	0	0	0.1	0.47	0
June	177	0	0.24	0.15	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0.03	0
June	178	0	0.32	0	0	0	0.43	0	0	0	0	0	0	0.01	0	0	1.51	0.55	0
June	179	0.19	0.8	0	0	0.02	0.05	0	0	0	0	0	0.31	0.29	0	0.01	0.08	0	0.57
June	180	0.06	0	0	0.02	0.03	0	0	0.32	0	0	0	1.36	0.33	0	0	0.31	0	0.04
June	181	0.19	0	0.13	0	0.01	0.07	0	0.08	0.01	0	0	0	0	0	0	0	0	0
July	182	0	0.01	0	0	0	0	0.41	0.15	0	0	0.07	0	0	0	0.4	0	0	0
July	183	0	0	0.16	0	0	0	0	0	0	0	0	0	0.02	0	1.37	0	0	0
July	184	0.19	0	0.07	0	0.69	0	0	0	1.06	0	0.1	0	0	0.03	0.05	0	0	0
July	185	0	0.17	0.35	0	0.07	0.03	0	0	0.26	0	0	0.06	0	0	0.01	0	0.24	0.05
July	186	0	0.09	0.15	0	0	0.5	0	0.11	0	0	0	0.01	0	0.23	0.02	0	0.04	0
July	187	0	0	0.11	0	0	0	0.4	0.1	0	0	0	0.39	0	0	0	0	0	0
July	188	0.14	0	0.3	0	0	0	0	0	0	0	0.09	0.19	0.22	0	0	0	0	0
July	189	0	1.62	0.44	0.2	0	0	0	0	0.08	0.22	0	0	0	0	0	0	0	0
July	190	0	0	0	0	0	0	0	0.02	0	0	0.01	0	0	0	0.04	0.53	0	0
July	191	0	0	0	0	0	0	0	0	0	0.03	0.92	0	0	0	0	0	0	0
July	192	0	0.03	0	0	0	0	0	0	0	0	0.28	0	0	0	0	0	0	2.41
July	193	0.05	0	0.02	0.71	0	0	0.15	0	0	0	0.4	0	0	0	0.01	0	0	0.03
July	194	0	0	0.33	0.32	0	0.08	0	0	0	0.05	1.4	0	0.04	0	0	0	0.06	0
July	195	0	0	1.46	0	0	0.01	0	0	0	0	0.17	0	0.05	0	0	0	0	0
July	196	0.31	0	0	0	0	0	0.29	0	0	0	0.72	0.11	0	0	0	0.07	0	0
July	197	0.08	0	0	0	0	0	0.28	0	0	0	0	0.01	0.07	0.01	0	0	0.42	0
July	198	0	0	0.14	0	0	0	0	0	0.02	0.02	0.86	0.32	0.05	0	0	0	0	0
July	199	0	0.6	0.38	0	0	0	0	0	0.05	0.03	0.41	0	0	0	0	0.04	0	0
July	200	0	0.03	0.04	0.02	0.15	0	0.05	0	0	0	0	0.18	0.04	0.19	0	0.05	0	0

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		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
July	201	0	0.18	0.09	0	0	0	0	0	0	0	0	0	0	0.14	0.03	0	0	0
July	202	0.5	0	0	0	0	0.06	0	0	0.74	0	0	0	0	0.07	0	0	0	0
July	203	0.23	0	0.4	0	0	0.05	0	0.21	0	0	0	0	0	0	0	0	0	0.24
July	204	0.59	0	0	0.12	0	0	0	0	0	0	0	0	0	0.27	0	0	0.43	0.03
July	205	0	0	0	0	0	0.21	0	0	0.37	0	0.07	0	0	0	0.03	0	0	0
July	206	0	0	0	0	0	0.35	0.01	0.03	0.1	0	0	0	0	0	0	0.17	0	0
July	207	0	0	0.01	0	0	0	0	0.11	0	0.06	0	1.09	0	0.01	0.03	0.19	0	0
July	208	0	0	0	0	0	0	0	0	0	0.32	0	0.15	0.01	0.09	0.52	0.01	0	0.05
July	209	0.37	0.12	0	0	0.22	0.03	0	0	0	0	0	0	0	0	0	0	0	0.04
July	210	0	0	0	0	0.1	0.06	0.15	0	0	0.09	0	0	0	0	0	0	0	0
July	211	0.19	0.25	0	0	0.01	0.39	0	0	0	0.05	0	0	0	0	0	0	0	0
July	212	0.02	0	0	0	0.52	0	0.04	0	0.76	0	0	0	0.24	0.11	0	0	0	0.07
Aug	213	0.21	0.01	0.06	0	0.16	0.82	0.12	0.11	0.19	0.13	0	0	0.02	0	0	0	0	0
Aug	214	0.25	0.58	0	0	0	0	0	0	0.14	0.15	0	0.01	0.08	0	0	0	0	0
Aug	215	0.01	0	0	0	0	0	0	0	0	0.08	0.4	0.05	0.02	0	0	0.18	0.05	0
Aug	216	0	0	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0.47	0	0.06
Aug	217	0	0	0.03	0	0	0	0	0.03	0	0.03	0	0	0.27	0	0	0.01	0	0.15
Aug	218	0	0.16	1.29	0.22	0.08	0	0	0.19	0	0	0	0	0	0	0	0	0	0.06
Aug	219	0.09	0	0	0	0	0	0	0.08	0	0	0	0	0.55	0	0.01	0	0	0
Aug	220	0.25	0	0.01	0	0.12	0	0.03	0	0	0	0	0.08	0	0.08	0.02	0	0	0
Aug	221	0	0	0.03	0	0.07	0	0	0	0	0	0.02	0.04	0.08	0	0	0.04	0	0
Aug	222	0	0	0.05	0	0	0	0	0.05	0	0	0	0	0.45	0.03	0	0	0	0
Aug	223	0	0	0	0	0	0.04	0	0.04	0	0	0.17	0	0.03	0	0	0	0	0
Aug	224	0.12	0	0	0.31	0	0.18	0	0	0	0	0	0	0	0	0	0.07	0	0
Aug	225	0	0	0	0	0	0.28	0	0	0	0	0	0	0	0	0	0.4	0	0
Aug	226	0.3	0	0	0	0	0	0	0	0	0.14	0	0.02	0	0	0	0	0	0
Aug	227	0.03	0	0	0.31	0.73	0	0.03	0	0	0.04	0	0.05	0	0	0	0	0	0
Aug	228	0.34	0.23	0	0.31	0.31	0.53	0	0.43	0.32	0	0	0.01	0	0.11	0.12	0	0.02	0.05
Aug	229	0.05	0.04	0	0.12	0.06	0.35	0	0	0.01	0	0	0	0	0	0	0	0	0.01
Aug	230	0.14	0	0	0	0	0	0	0	0	0	0	0	0.38	0.71	0	0	0	0
Aug	231	0	0	0.01	0	0	0	0	0	0.09	0	0	0.14	0.81	0.07	0	0	0.18	0
Aug	232	0	0	0	0	0.77	0	1.23	0	0	0	0	0	0.07	0	0.01	0	0	0
Aug	233	0.06	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0.13	0	0	0.09
Aug	234	0.57	0	0	0	0	0	0.65	0.09	0	0.03	0	0	0	0	0.01	0	0	0
Aug	235	0	0	0	0	0	0	0.39	0.02	0	0	0	0	0	0.01	0	0	0	0
Aug	236	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0	0	0.01
Aug	237	0.04	0	0.11	0	0.18	0	0	0	0.02	0	0	0.21	0	0	0.02	0	0	0
Aug	238	0	0.44	0.23	0	0.08	0	0.01	0	0	0	0	0	0	0.75	0.18	0	0.44	0
Aug	239	0	0.07	0.02	0	0.01	0	0.41	0	0	0	0	0	0	0.58	0	0	0	0
Aug	240	0	0.02	0	0.09	0	0	0.31	0	0	0.03	0	0	0	0.03	0.34	0	0	0
Aug	241	0	0.37	0	0	0	0	0	0	0	0	0.66	0	0.32	0	0	0.16	0	0
Aug	242	0.02	0.19	0	0	0	0	0	0	0	0	0	0.03	0	0	0	0.01	0	0.11
Aug	243	0	0	0	0	0.3	0.01	0	0	0.03	0	0	0	0	0	0	0	0.03	0.16
Sept	244	0	0	0	0	0.02	0	0	0.02	0.37	0	0	0.05	0	0	0	0.02	0.03	0
Sept	245	0	0	0	0	0.02	0	0	0.02	0	0	0	0.02	0	0	0	0	0	0
Sept	246	0	0	0.06	0.11	0	0	0	0	0.13	0	0.16	0	0	0	0.05	0	0.17	0
Sept	247	0	0	0.1	0.37	0	0.15	0	0	0	0	0.35	0	0	0	0.56	0	0	0
Sept	248	0.05	0	0	0	0	0	0	0	0	0.04	0.13	0	0	0	0	0	0.02	0
Sept	249	0	0	0.28	0.12	0	0	0	0	0	0	0.29	0.62	0	0	0	0	0	0
Sept	250	0	0	0.02	0	0	0	0	0	0	0	0	0.08	0.11	0	0.71	0	0.09	0

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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Sept	251	0	0	0	0.05	0.01	0	0.1	0	0	0	0	1.44	0	0.03	0.42	0	0	0
Sept	252	0.06	0.01	0	0	0	0	0.3	0.42	0	0	0.22	0	0	0	0	0	0	0
Sept	253	0	0	0	0	0	0	0	0	0	0	0	0	0	0.28	0	0	0	0
Sept	254	0	0	0	0	0	0.23	0.01	0	0	0	0.03	0	0	0	0	0.87	0	0.24
Sept	255	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sept	256	0	0	0.02	0	0	0	0	0	0	0	0	0.8	0	0	0	0.04	0	0
Sept	257	0	0.07	0	0	0	0	0	0.07	0	0	0	0	0.02	0	0	0	0	0
Sept	258	0.03	1.92	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0.06	0	0
Sept	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0.59	0	0	0	0
Sept	260	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0.19	0	0.01	0	0
Sept	261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25	0	0
Sept	262	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0
Sept	263	0	0	0	0	0	0	0	0.35	0	0	0.03	0	0	0	0	0	0	0
Sept	264	0	0.32	0	0	0.09	0	0	0	0	0	0	0	0	0	0.21	0.12	0	0
Sept	265	0	0.05	0	0	0.01	0	0	0	0	0	0	0	0	0.12	0.02	0	0.01	0
Sept	266	0	0	0.23	0	0	0	0	0	0	0	0.01	0	0.01	0.1	0.11	0.27	0	0
Sept	267	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0.34	0.09	0	0.02
Sept	268	0.24	0	1	0.42	0.23	0	0.17	0.16	0	0	0	0	0.49	0.09	0	0.34	0	0
Sept	269	0.12	0	0.46	0	0	0	0	0	0	0.05	0	0	0	0.01	0	0	0	0
Sept	270	0	0	0.06	0	0	0.14	0	0	0.02	1.15	0	0	0	0	0.23	0.1	0	0
Sept	271	0	0	0.05	0	0	0	0	0	0	0	0.04	0	0.35	0	0	0	0	0.09
Sept	272	1.46	0	0.14	0	0	0	0	0.03	0	0	0	0	0.04	0.19	0	0	0	0.01
Sept	273	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0.33	0	0	0	0
Oct	274	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01
Oct	275	0.88	0.04	0	1.8	0	0	0	0	0	0	0	0	0.01	0.06	0.52	0	0	0.59
Oct	276	0	0	0	0.5	0	0	0	0.15	0	0	0	0	0.1	0.05	0	0.01	0	0
Oct	277	0	0	0.04	0.1	0	0.4	0	0	0	0	0	0	0.4	0.29	0	0.06	0	0
Oct	278	0.1	0	0	0	0	0.26	0	0	0	0	0	0	0.09	0.19	0.02	0	0	0
Oct	279	0.17	0	0	0	0.04	0	0	0	0	0.16	0	0	0	0	0.02	0	0	0
Oct	280	0	0	0	0	0.48	0	0	0	0	0	0	0.07	0	0	0	0	0	0
Oct	281	0	0	0	0	0.05	0.01	0	0	0	0	0.02	0	0	0	0	0	0	0
Oct	282	0	0	0.31	0	0	0.25	0	0	0.13	0	0	0	0.22	0	0	0	0	0
Oct	283	0	0	0.01	0	0	0.32	0.05	0	0	0	0	0	0	0	0	0	0	0
Oct	284	0.18	0	0.05	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	285	0.02	0.05	0	0.38	0.11	0	0	0	0	0	0	0	0	0	0	0	0.88	0
Oct	286	0	0.04	0	0	0	0	0	0	0	0	0.01	0	0	0	0.02	0.11	0	0
Oct	287	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	0.03	0
Oct	288	0	0	0	0	0	0	0.05	0	0	0	0	0	0	0.09	0	0	0	0
Oct	289	0	0.15	0	0	0	0	0	0.71	0	0	0	0.02	0.07	0	0	0	0	0
Oct	290	0	0	0	0	0	0	0.19	0	0	0	0	0.04	0	0	0	0.01	0	0
Oct	291	0	0	0	0	0	0	0	0	0	0	0.06	0.05	0	0	0.03	0	0	0.03
Oct	292	0	0.12	0	0	0	0.03	0.19	0	0	0	0	0	0	0	0	0	0	0.55
Oct	293	0	0	0	0.1	0	1.69	0	1.11	0	0	0.03	0	0	0	0	0	0.02	0
Oct	294	0	0	0	0	0.69	0	0	0	0.09	0.54	0.05	0	0	0	0	0	0	0
Oct	295	0	0.34	0.68	0	0.03	0	0	0	0.1	0.15	0	0	0	0	0.31	1.24	0	0
Oct	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.18	0	0
Oct	297	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0.04	0	0
Oct	298	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0
Oct	299	0	0	0	0	0	0	0	0	0	0.31	0	0	0.05	0	0.1	0	0	0
Oct	300	0	0	0	0.05	0.11	0.13	0	0	0	0.02	0	0	0.1	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Oct	301	0	0	0.07	0.01	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0
Oct	302	0.04	0	0.24	0	0.06	0.03	0	0	0	0.02	0	0	0	0	0.5	0	0	0
Oct	303	0.25	0	0.05	0	0	0	0	0	0.01	0	0	0	0.3	0	0.04	0	0.43	0
Oct	304	0	0	0.2	0	0	0.16	0	0	0.15	0	0	0	0	0.09	0	0	0.37	0
Nov	305	0.02	0.21	0	0	0	0	0.03	0	0	0	0.03	0	0	0.08	0	0.37	0.14	0
Nov	306	0	0.23	0.03	0	0	0	0	0.29	0.03	0	0	0.01	0	0	0	0	0	0.08
Nov	307	0	0	0.04	0	0	0	0	0	0.01	0.3	0	0	0	0	0	0	0	0.27
Nov	308	0.26	0	0	0	0	0	0.06	0	0	0	0	0.26	0	0	0.4	0.14	0.02	0
Nov	309	0.32	0	0	0	0	0	0	0	0.05	0	0	0.01	0	0.33	0.03	0.01	0.08	0
Nov	310	0	0	0	0	0	0	0.06	0	0	0.12	0	0	0	0.08	0.04	0	0.81	0
Nov	311	0	0.13	0	0	0	0	0	0	0	0.16	0	0.11	0.08	0	0	0	0.32	0
Nov	312	0	0.04	0	0	0	0.01	0.03	0	0	0.01	0	0	0	0	0	0	0	0.35
Nov	313	0	0	0	0	0.15	0	0	0	0.05	0	0	0	0	0	0	0.12	0.13	0.54
Nov	314	0	0	0	0	0.18	0	0	0	0.03	0	0	0	0	0	0.01	0	0	0
Nov	315	0.02	0	0.4	0	0	0	0	0	0	0	0	0.03	0	0.02	0	0	0	0
Nov	316	0	0	0.01	0	0	0.03	0	0	0	0	0	0.03	0	0	0	0	0	0
Nov	317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0
Nov	318	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.39
Nov	319	0	0.37	0	0.03	0	0.1	0	0	0	0	0	0	0	0	0	0	0	1.91
Nov	320	0.05	0.15	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0.32
Nov	321	0.13	0.1	0	0.03	0	0	0	0	0	0	0.12	0.04	0	0	0	0	0	0
Nov	322	0.05	0.06	0.05	0.29	0	0.16	0	0	0	0	0.03	0	0	0	0	0	0	0
Nov	323	0	0.1	0.05	0.36	0	0.14	0	0	0	0.06	0	0	0	0	0.02	0	0	0
Nov	324	0	0.02	0.05	0	0.04	0	0	0	0	0	0	0	0	0.03	0.09	0.03	0	0
Nov	325	0	0	0.1	0	0.09	0.12	0	0	0.09	0	0.02	0.28	0	0	0	0	0	0
Nov	326	0.15	0	0.11	0	0.06	0	0.08	0	0	0	0.04	0	0	0	0.14	0	0	0
Nov	327	0	0	0.12	0.05	0.04	0	0.35	0	0	0.02	0	0.01	0	0	0	0	0	0
Nov	328	0	0	0	0.01	0.18	0	0	0.21	0	0.11	0	0.1	0	0	0	0	0	0
Nov	329	0	0	0	0.02	0	0	0	0.11	0	0	0	0.18	0	0	0	0.45	0.15	0
Nov	330	0	0	0	0	0	0	0	0.23	0	0	0.23	0	0	0.01	0	0	0	0
Nov	331	0	0	0.05	0	0	0	0	0	0.07	0	0.03	0	0	0	0	0	0	0
Nov	332	0.04	0	0.46	0	0	0	0	0	0.14	0	0.04	0	0	0.01	0	0.04	0.01	0
Nov	333	0	0.02	0.11	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0
Nov	334	0	0	0.43	0	0	0	0	0	0	0	0.1	0	0	0	0	0.07	0	0
Dec	335	0.06	0	0.19	0	0	0	0	0	0	0	0	0	0.09	0.25	0	0.09	0	0
Dec	336	0.07	0	0	0	0	0	0	0.02	0	0	0	0	0.07	0	0	0	0.02	0
Dec	337	0.5	0.1	0	0	0	0	0	0.02	0	0.06	0	0.03	0	0.23	0	0	0	0
Dec	338	0	0.02	0	0	0	0.19	0	0.02	0	0.02	0	0.31	0	0	0.25	0	0	0
Dec	339	0	0	0	0	0.03	0	0.05	0.01	0	0	0	0	0	0	0	0	0	0
Dec	340	0.06	0	0.1	0	0.02	0.07	0	0.14	0	0	0.23	0.04	0	0	0	0	0	0
Dec	341	0.02	0	0.04	0	0	0.14	0.12	0	0	0	0.17	0.07	0	0	0.09	0	0.03	0
Dec	342	0	0	0.06	0	0	0.02	0	0	0	0.01	0.03	0	0	0	0	0	0	0
Dec	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0.12
Dec	344	0.03	0	0	0	0	0.03	0.13	0	0	0	0	0.16	0	0	0	0.02	0	0.08
Dec	345	0	0	0	0	0	0.02	0	0	0.04	0	0	0	0	0	0	0.19	0	0.08
Dec	346	0	0	0	0.02	0	0	0	0	0	0	0.36	0	0	0.09	0	0.1	0	0
Dec	347	0.01	0	0	0	0	0.08	0	0	0.26	0	0.3	0	0	0.03	0	0	0	0
Dec	348	0.03	0	0	0.39	0	0.01	0	0	0.45	0	0	0	0	0.01	0	0	0.19	0
Dec	349	0	0	0	0.1	0	0.04	0.09	0.05	0	0	0	0	0	0	0	0.48	0	0
Dec	350	0.23	0.01	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
Dec	351	0.05	0	0.1	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	352	0	0	0	0.05	0	0	0	0	0	0	0.07	0	0.06	0	0	0	0	0.23
Dec	353	0	0.14	0	0.02	0	0	0	0.01	0.03	0.01	0.2	0	0	0	0	0	0	0
Dec	354	0	0	0	0.3	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0
Dec	355	0	0	0.04	0.1	0	0	0	0.06	0	0	0.02	0	0.02	0	0	0	0	0.2
Dec	356	0	0	0	0	0	0	0	0.08	0.11	0	0.01	0.05	0	0	0.11	0	0	0
Dec	357	0	0	0.02	0	0	0	0.08	0	0.04	0	0.02	0.04	0.15	0	0	0	0	0.15
Dec	358	0	0	0.02	0	0	0	0.04	0	0.06	0	0.04	0.03	0	0	0	0	0	0.02
Dec	359	0	0	0	0	0	0.23	0.04	0.03	0	0	0	0.09	0	0	0.18	0	0	0
Dec	360	0	0	0	0	0	0	0	0	0.01	0	0	0.06	0.09	0	0.04	0.07	0.7	0.01
Dec	361	0	0	0	0	0	0	0.06	0	0.03	0	0	0	0	0	0.02	0	0	0
Dec	362	0	0	0	0	0	0.02	0	0	0.01	0	0	0	0	0	0	0	0	0
Dec	363	0.07	0.08	0	0	0	0.02	0	0	0	0	0	0	0.18	0.22	0	0.12	0	0
Dec	364	0.02	0.08	0	0	0.25	0	0	0	0	0.13	0	0.07	0.04	0	0.09	0	0	0
Dec	365	0	0	0	0	0.1	0	0	0.03	0	0	0.02	0	0.06	0	0.06	0	0	0.21
29 Feb	366		0.1				0				0				0				0.09

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Jan	1	0.04	0	0.03	na	0	0	0	0	0.06	0	0	0.04	0	0	0.25	0.24	0.07	0
Jan	2	0.04	0	0	0	0.03	0.05	0.02	0	0	0	0	0	0	0	0.01	0.07	0.01	0
Jan	3	0.16	0	0	na	0.43	0.08	0.07	0	0.23	0	0	0	0.09	0	0	0	0	0
Jan	4	0	0	0	0	1.58	0	0	0	0.35	0	0	0	0.09	0	0	0.1	0	0.12
Jan	5	0	0	0	0.03	0.54	0	0	0	0.14	0	0	0	0	0	0	0	0	0.03
Jan	6	0	0	0	0	0	0	0.03	0	0.02	0	0	0	0	0	0	0	0	0.5
Jan	7	0	0	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0.17
Jan	8	0.4	0	0	0.09	0.05	0	0	0	0	0.07	0.19	0	0.05	0	0	0	0	0.58
Jan	9	0	0	0	0	0.05	0.06	0	0	0	0	0	0	0	0	0	0	0	0.08
Jan	10	0	0	0	0	0.03	0	0	0	0.06	0	0	0	0	0	0	0	0	0
Jan	11	0	0.02	0.01	0	0	0	0	0	0	0.02	0.01	0	0	0	0	0	0	0
Jan	12	0	0	0	0.15	0	0	0	0	0	0	0.03	0	0	0	0	0	0	0
Jan	13	0	0	0	0.02	0	0	0	0	0	0	0	0	0.08	0	0	0	0	0.21
Jan	14	0.14	0.02	0	0	0	0	0.06	0.03	0.25	0	0	0.29	0	0.12	0.04	0	0.06	0.06
Jan	15	0	0	0.03	0.05	0.8	0.01	0	0	0.09	0	0	0	0.04	0	0.04	0	0	0
Jan	16	0	0	0	0.06	0.38	0	0	0	0	0	0	0	0.1	0	0	0.14	0	0
Jan	17	0.02	0	0	0	0.03	0.02	0	0	0.1	0	0.01	0	0.3	0	0.24	0.03	0	0
Jan	18	0	0	0	0.25	0.2	0	0	0	0.05	0	0	0	0	0	0.45	0.02	0.06	0.08
Jan	19	0.2	0	0.18	0	0	0.04	0.02	0	0.06	0	0	0	0	0	0.08	0	0	0
Jan	20	0.07	0	0.11	0	0.12	0	0	0	0	0	0.07	0	0	0	0.02	0	0	0.09
Jan	21	0	0	0	0.01	0	0	0	0.12	0.36	0	0.29	0	0	0	0	0.01	0	0.17
Jan	22	0	0	0	0.54	0.09	0	0.13	0.08	0.09	0	0.11	0	0	0.07	0	0	0	0
Jan	23	0	0.26	0	0.31	0.05	0.18	0	0	0	0	0.4	0	0	0.09	0.08	0.05	0	0
Jan	24	0	0	0	0	0	0.04	0.03	0	0.03	0.05	0.1	0.3	0.03	0	0	0	0	0
Jan	25	0	0.47	0	0.03	0	0	0	0	0	0.22	0.01	0	0	0.24	0.22	0.04	0.03	0
Jan	26	0	0	0.24	0	0	0	0	0	0	0	0.16	0.07	0	0	0	0	0.01	0
Jan	27	0.02	0	0.05	0	0.03	0	0.05	0.03	0.03	0	0.59	0	0	0	0	0	0	0
Jan	28	0.04	0	0.08	0	0.05	0.02	0.07	0	0	0	0.06	0	0.09	0	0	0	0	0
Jan	29	0.09	0	0.14	0	0.02	0	0	0	0	0.06	0	0	0	0.07	0	0	0	0
Jan	30	0	0.09	0	0	0.05	0	0	0	0	0	0	0	0	0.21	0.05	0	0	0
Jan	31	0	0	0.14	0	0.25	0	0.01	0	0	0	0	0	0	0.03	0	0	0	0
Feb	32	0	0.02	0	0	0.05	0	0	0	0	0	0	0	0	0.07	0	0.01	0.31	0
Feb	33	0	0	0	0	0	0	0	0.01	0	0	0.04	0	0	0	0	0	0	0
Feb	34	0.03	0	0.28	0	0	0	0	0	0	0	0.16	0	0	0	0.48	0	0.1	0
Feb	35	0	0	0	0.01	0	0	0	0	0.02	0	0.03	0	0	0	0.27	0	0.01	0.09
Feb	36	0	0	0	0	0	0	0	0.28	0.15	0.01	0	0	0	0	0.07	0	0.01	0.1
Feb	37	0.17	0	0.26	0	0	0	0.15	0	0	0	0.1	0	0	0	0	0.18	0	0
Feb	38	0	0.01	0	0	0.1	0	0	0	0.1	0	0.02	0	0	0.07	0	0	0	0
Feb	39	0	0.16	0	0	0.18	0	0	0	0.09	0	0	0	0	0	0	0.13	0	0
Feb	40	0.23	0	0	0	0.06	0.01	0	0	0.49	0	0.31	0	0	0	0.14	0.23	0	0
Feb	41	0	0.02	0.12	0.13	0	0	0	0	0.1	0	0.04	0	0	0	0.08	0	0	0
Feb	42	0.01	0	0	0	0	0	0	0	0	0.08	0	0.04	0.02	0.09	0	0	0	0
Feb	43	0	0	0	0	0.04	0.01	0	0	0.01	0	0	0	0	0	0	0	0.04	0
Feb	44	0	0	0	0	0	0	0	0.17	0.09	0	0	0.28	0	0.01	0.2	0	0.29	0.53
Feb	45	0	0	0	0.01	0	0	0	0.15	0.08	0	0	0.05	0	0.05	0.46	0.08	0	0
Feb	46	0.36	0	0	0	0.08	0	0	0	0.11	0	0	0	0.02	0	0	0	0	0.02
Feb	47	0.01	0	0	0	0	0	0	0	0.07	0	0	0.02	0	0.06	0	0.6	0	0.01
Feb	48	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0.2	0.31	0	0.12
Feb	49	0	0	0.08	0	0	0	0	0.03	0.13	0	0.52	0	0	0	0.09	0.04	0.12	0
Feb	50	0.09	0	0.03	0.07	0	0	0	0.01	0.55	0.01	0.07	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Feb	51	0	0	0	0.03	0	0	0	0.02	0.01	0.01	0	0	0	0	0	0.01	0	0
Feb	52	0.04	0	0	0	0	0.14	0	0	0	0.05	0.05	0	0.11	0	0	0.07	0	0.04
Feb	53	0.01	0	0.19	0	0	0.02	0	0.01	0	0.18	0.01	0	0	0	0	0.09	0.15	0.07
Feb	54	0	0	0.1	0.53	0.2	0.14	0	0	0	0	0	0	0	0	0	0	0.11	0.08
Feb	55	0	0	0	0.1	0	0	0	0	0	0.18	0	0.11	0	0	0	0	0	0
Feb	56	0.11	0.79	0.01	0	0	0.09	0	0	0	0.16	0	0	0.07	0	0	0	0	0
Feb	57	0	0.23	0	0	0	0	0	0	0.02	0.95	0.03	0	0	0.79	0.07	0	0	0.06
Feb	58	0	0.01	0	0.09	0	0	0.19	0	0.26	0.09	0	0.01	0.02	0.55	0.01	0.03	0	0.01
Feb	59	0	0	0.02	0.01	0	0	0.05	0.14	0.06	0	0	0	0.03	0.37	0.01	0	0	0
Mar	60	0	0	0	0.02	0	0	0	0.03	0.4	0.08	0	0	0	0.02	0	0	0	0
Mar	61	0	0	0	0	0	0	0.25	0	na	0.03	0	0.02	0	0	0.21	0	0.24	0
Mar	62	0	0	0.18	0	0	0	0.03	0	0	0	0.13	0.26	0	0.04	0.05	0.03	0.09	0.12
Mar	63	0.03	0.21	0	0	0	0	0	0	0.16	0	0.01	0	0	0.04	0.12	0.01	0.09	0
Mar	64	0.08	0	0	0	0	0	0	0	0.07	0	0	0	0.12	0	0.03	0	0.04	0
Mar	65	0	0.03	0.02	0.1	0	0	0	0	0.04	0	0	0.08	0.07	0	0	0	0	0
Mar	66	0	0.66	0	0	0	0.26	0	0	0	0	0.07	0.16	0	0	0	0	0	0
Mar	67	0	0	0	0.08	0.01	0	0	0	0	0	0	0	0.08	0	0	0	0	0
Mar	68	0	0.12	0	0.04	0.11	0.12	0	0	0	0	0	0.13	0	0.05	0.24	0.01	0	0
Mar	69	0	0	0	0.03	0.05	0.19	0	0	0	0.01	0.1	0.06	0	0.06	0.19	0	0	0.03
Mar	70	0	0	0	0	0	0.14	0	0	0.02	0.28	0.28	0.51	0.26	0	0.05	0.29	0.09	0.28
Mar	71	0	0	0	0	0	0	0	0	0	1.04	0	0.06	0	0	0	0	0.02	0.2
Mar	72	0	0	0.13	0	0.05	0	0	0.26	0	0.06	0	0	0.04	0	0.14	0	0	0
Mar	73	0	0	0.06	0	0.19	0	0.08	0.19	0.2	0	0.07	0.03	0.11	0	0.14	0	0	0
Mar	74	0.01	0.22	0	0	0	0	0.01	0.04	0	0	0.19	0.03	0	0	0.02	0.03	0	0
Mar	75	0.78	0.58	0.33	0.02	0.14	0	0	0	0	0	0	0	0	0	0.01	0	0	0
Mar	76	0	0.05	0	0	0.18	0	0.07	0	0	0	0.12	0	0	0.03	0	0.51	0	0
Mar	77	0	0	0	0	0	0.32	0.01	0	0.07	0.89	0	0.04	0.36	0.01	0	0.21	0	0
Mar	78	0	0	0.08	0	0	0	0	0	0	0.2	0.02	0	0	0	0	0.23	0	0
Mar	79	0	0	0	0	0	0.7	0.04	0.28	0	0	0.31	0	0	0	0.44	0	0	0
Mar	80	0	1.1	0	0	0.02	0	0	0.16	0	0.08	0	0	0	0	0	0	0	0.13
Mar	81	0	0	0	0.06	0	0	0.12	0.02	0	0.02	0.23	0	0.69	0	0	0	0	0
Mar	82	0.24	0	0.17	0	0	0.27	0.4	0.06	0	0	0.01	0	0.27	0	0	0	0	0
Mar	83	0	0	0.09	0	0.31	0	0	0.07	0	0.1	0.08	0	0	0	0.13	0	0	0.09
Mar	84	0.65	0.24	0.16	0	0	0	0	0.38	0	0.21	0.09	0	0	0.03	0.03	0	0	0
Mar	85	0.45	0	0.05	0	0	0.89	0	0.11	0	0	0.09	0	0.1	0.23	0	0	0.03	0
Mar	86	0.11	0	0	0.05	0	1.26	0.34	0	0	0.07	0	0	0.02	0	0	0	0	0
Mar	87	0.1	0	0	0	0	0.39	0	0	0	0.2	0	0.43	0.07	0	0	0	0	0.27
Mar	88	0.13	0	0	0	0	0	0	0	0	0.01	0	0.45	0	0	0	0	0.01	0.08
Mar	89	0	0	0.01	0	0	0	0	0	0	0	0	0.04	0	0	0.07	0.47	0	0.12
Mar	90	0	0	0.17	0.14	0	0.07	0	0	0	0	0.26	0	0	0.07	0.02	0	0	0.06
Apr	91	0.5	0	0.1	0	0	0	0	0.15	0.15	0.01	0	0	0	0.97	0	0.38	0	0.05
Apr	92	0.3	0	0.16	0	0	0.11	0	0.08	0.21	0	0	0	0.02	0	0.4	0.34	0	0
Apr	93	0.01	1.13	0	0	0	0.06	0	0	0	0	0.15	0.53	0.38	0	0.03	0.08	0	0
Apr	94	0.01	0	0.56	0	0	0.12	0	0.18	0	0	2.7	0.35	0.57	0.06	0	0	0.58	0
Apr	95	0	0	0.15	0.28	0	0	0.18	0.02	0.03	0	1.48	0	0.01	1.44	0	0	0.04	0.16
Apr	96	0	0	0.04	0	0	0	0.01	0	0.38	0.01	0.01	0.55	0.44	0.66	0	0	0.03	0.25
Apr	97	0	0	0	0.06	0	0	0	0	0.17	0.01	0	0.25	0	0	0	0	0	1.16
Apr	98	0	0	0	0.02	0	0	0	0	0.07	0	0	0.12	0.07	0	0.14	0	0	0.06
Apr	99	0	0.03	0	0	0.75	na	0	0.03	0.16	0.12	0	0	0	0	0.04	0	0	0
Apr	100	0.26	0.98	0	0	0.23	0.73	0.08	0	0.01	0	0	0	0.29	0.08	0.2	0	0.26	0.1

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Apr	101	0.11	0	0.17	0.02	0	0	0.05	0	0	0	0.78	0	0.02	0.05	0.24	0	0.42	0.37
Apr	102	0.07	0	0.07	0.21	0	0	0	0	0	0	0.8	0.06	0	0.05	0	0.1	0	0
Apr	103	0.17	0	0	0	0.76	0	0	0	0	0	0	0.01	0	0	0	0	0	0
Apr	104	0	0.09	0	0	0.05	0	0.05	0	0.57	0	0	0	0	0	0	0	0.63	0
Apr	105	0	0	0.2	0	0	0	0.01	0	0.05	0.79	0.05	0	0	0	0.2	0	0	0
Apr	106	0.09	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0.31	0.13	0	0
Apr	107	0.01	0	0	0	0	0	0	0.13	0.05	0	0	0	0.22	0	0.03	0.92	0	0
Apr	108	0	0	0.03	0	0	0.05	0.14	0	0.04	0.23	0	0	0	0	0	0.07	0	0
Apr	109	0	0.35	0	0.11	0	0	0	0	0	0.03	0.1	0	0.03	0.03	0.51	0	0	0
Apr	110	0	0	0	0.92	0	0	0.08	0	0	0.06	0	0	0.03	0.16	0.16	0	0.27	0
Apr	111	0	0	0.32	0.02	0.14	0	0.1	0	0	0	0	0	0	0.36	0	0	0	0
Apr	112	0	0.03	0.47	0	0.09	0	0	0	0	0	0	0	0.08	0.19	0	0	0.04	0
Apr	113	0	0	0.07	0	0	0.03	0	0	0	0	0.14	0.1	0.35	0.74	0.01	0	0.12	0
Apr	114	0.06	0	0	0.27	0	0.22	0.1	0	0.56	0	0	0.08	0	0	0.03	0	0.31	0
Apr	115	0	0	0	0	0	0.12	0.01	0	0.13	0	0.02	0.14	0.02	0.09	0.01	0.09	0	0
Apr	116	0	0	0	0	0	0.03	0.09	0	0	0	0	0.02	0.1	0	0	0	0.1	0.45
Apr	117	0	0	0	0.85	0	0	0.19	0	0	0	0.14	0.02	0.15	0.5	0.03	0.1	0	0.24
Apr	118	0	0	0	0	0	0.24	0	0	0	0	0	0.05	0	0.14	0	0	0	0.07
Apr	119	0	0	0.04	0	0.02	0.51	0	0	0.69	0.03	0	0.19	0	0	0	0.54	0	0.02
Apr	120	0	0.38	0.17	0	0.97	0	0.16	0	0.69	0	0	0	0	0	0	0.43	0.03	0
May	121	0	2	0	0.08	0.06	0	0	0.01	0.5	0.16	0	0	0	0	0	0.04	0.07	0
May	122	0	4.05	0	0.24	0	0.04	0.18	0	0.73	0.29	0	0	0	0	0	0	0	0
May	123	0	0	0	0.28	0	0.06	0	0	0.42	0	0.55	0	0	0	0	0	0.11	0
May	124	0	0	0	0.01	0	0.19	0	0	0.19	0	0	0.83	0.05	0	0.23	0	0.09	0
May	125	0	0	0.2	0	1.03	0.2	0	0	0	0	0	0	0	0	0	0	0	0
May	126	0	0.08	0	0.21	0.2	0	0	0	0	0.08	0	0	0	0	0.07	0.46	0	0.1
May	127	0	0	0	0	0	0.59	0	0	0	0.09	0	0.01	0	0.05	0	0.03	0	0
May	128	0	0	0	0	0	0.25	0.01	0.26	0	0	0	0	0.06	0	0	0	0	0
May	129	0.12	0.24	0	0.01	0	0	0.46	0.07	0	0	0.13	0	0.06	0	0	0	0	0
May	130	0	0.23	0	0.4	0	0	0.11	0.51	0.06	0	0	0	0.01	0	0.27	0	0	0
May	131	0	0	0	0.04	0	0	0	0	0.18	0	0	0.03	0	0	0.01	0	0	0
May	132	0	0	0.02	0	0	0	0	0	0.12	0	0	0	0.16	0	0	0	0	0
May	133	0.07	0	0	0	0	0	0.18	0	0.14	0	0	0.49	0.23	0	0	0	0	0
May	134	0.01	0	0.01	0	0	0	0	0	0	0.35	0	0.65	1.39	0	0	0	0	0.26
May	135	0.01	0	0	0	0.01	0.23	0	0.18	0	0.01	0.01	0	0.67	0	0	0	0.02	1.17
May	136	0	0.63	0	0	0.24	0.07	0.07	0.9	0.24	0.13	0.1	0	0.2	0	0	0	0.21	0.88
May	137	0	0.06	0.01	0	0	0	0	0	0	0.05	1.1	0	0.24	0	0	0	0.03	0.63
May	138	0.49	0.18	0	0	0	0	0.18	0.29	0	0	0	0	0	0	0	0	0.07	2.01
May	139	0	0.21	0.51	0.08	0	0.09	0.06	0.03	0	0	0	0	0	0	0.1	0.05	0.03	0.8
May	140	1.68	0.22	0.01	0	0.04	0.01	0.65	0.21	0.37	0	0	0	0.39	0	0.79	0	0	0.02
May	141	0.17	0	0.06	0	0.61	0	0	0.01	0.4	0.02	0.09	0	0.58	0	0	0	0	1.05
May	142	0	0.25	0	0	0.19	0	0	1.61	0.05	na	0.13	0.25	0.3	0	0	0	0	2.88
May	143	0	0.9	0	0	0.25	0	0.11	4.53	0	1.72	0.03	0.02	0.08	0.21	0	0	0	0.79
May	144	0	1.1	0	0	0	0.22	0	0.46	0	0	0	0	0.22	0	0	0	0	0
May	145	0.09	0	0.06	0.02	0	0.14	0.02	0	0	0	0.25	0	1.27	0.2	0	0.45	0	0.99
May	146	0	0	0	0.03	0	0	0	0	0	0	0.33	0	0	0	0	0.1	0	0.65
May	147	0.21	0.08	0	0	0	0	0	0	0	0.32	0.16	0	0	0.02	0.2	0	0	0
May	148	0.56	0	0	0.15	0	0.04	0	0.04	0	0.24	0.82	0.47	0.12	0	0	0	0	0.37
May	149	0	0.38	0	0.02	0.18	0.14	0	0	0.88	0.26	0	1.71	0	0	0.23	0.21	0	0.66
May	150	0.08	1.96	0	0	0	0.04	0	0.04	0	0	0	0.28	0	0.5	0.74	0	0	0.25

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Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
May	151	0.17	2.74	0.12	0	0.22	0	0.54	0.21	0	0.88	0	0.05	0	0.68	0.31	0	0	0.01
June	152	0.87	0.04	0.31	0	0	0	1.08	0	0	0	0.19	0	0	0.07	0.03	0	0.03	0.09
June	153	0	0.06	0	0	0.87	0.08	0.32	0	0	0.88	0.65	0	0	0.1	0	0	0	0.53
June	154	0.04	0	0	0	0.01	0	0	0	0	0.21	0.44	0	0	0.26	0.08	0	0	0
June	155	0	0	0.71	0.07	0	0	0	0	0	0	0.1	0	0.06	0	0	0	0	0.05
June	156	0.01	0	0	0	0	0	0.4	0	0.14	0	0.35	0.17	0	0	0	0	0	0.01
June	157	0.29	0	0	1.19	0	0	0	0	0.12	0.59	0	0.3	0	0	0	0.06	0	0.49
June	158	0.12	0	0	0	0	0.01	0.05	0	0	0.07	0	0.2	0.4	0	0	0	0	0.09
June	159	0.19	0	0	0	0	0.49	0	0.05	0	0	0.21	0	0	0.3	0	0	0.05	0.08
June	160	0.18	0	0.02	0	0	0	0	0	0.21	0	2.8	0	0.14	0.14	0	0.15	0.14	0
June	161	0.72	0	1.14	0	0	0	0.1	0	0	0.07	0.62	0	0.18	0.16	0	0.26	0.06	0
June	162	0.12	0.88	0	0	0	0	0.31	0	0	0	0.11	0.02	0.3	0.09	0	0	0.7	0.81
June	163	0.14	1.06	0	0.02	0	0	0.15	0	0.02	0.02	0	0	0.31	0.21	0	0.59	0	0.69
June	164	1.55	0	0	0.37	0.6	0	0.28	0	0.14	0	0	0	0.34	0.66	0	0.49	0.39	0.09
June	165	0.18	0	0	0.05	0	0	0.07	0	0.05	0.07	0	0	0.01	0.42	0	0	0.61	1.45
June	166	0	0	0.07	0.84	0	0.25	0	0	1.24	0.13	0	0.59	0	0.12	0	0.02	0	0.46
June	167	0	0	0	0.01	0	0	0	0	0	0	0	0	0.68	0	0.98	0.4	0	1.35
June	168	0.47	0.44	0.3	0.04	0	0	0.53	0	0	0.04	0.19	0.36	0.36	0	0.2	0.4	0	0.02
June	169	0.04	2.06	0.02	1.08	0.08	0.45	0.1	0	0	0	0.02	0	0	0.17	0.03	0.03	0	0
June	170	0.59	0.29	0	0.1	0.02	0	0.3	0	1.09	0	0	0.38	0	0	0	0	0.11	0
June	171	0	0	1.66	0	0.11	0	0.03	0	0.6	1.09	0	0	0	0.86	0	0.16	0	0.62
June	172	0	0	0.99	0	0	0	0.11	0.01	0	0.21	0.03	0	1.02	0.03	0.02	0.14	0	0.16
June	173	0	0	2.97	0.41	0	0.12	0.18	0	0	0	0	0.05	0.62	0.02	0.21	0	0	0.03
June	174	0	0	0.16	0.74	0.02	0	0.24	0	0	0	0	0	0.09	0.17	0.02	0	0	0.57
June	175	0.95	0	0.31	0	0	0.21	0	0	0	0	0	0	0	0	0.13	0	0	0.45
June	176	0	0.21	0	0.62	0	0	0.02	0.19	0	0	0	0	0	0	0.11	0	0	0
June	177	0.08	0	0	0.09	0	0	0	0.3	0	0.03	0	0.5	0.02	0	0.56	0	0	0
June	178	0.31	0.23	0.07	0	0	0	0	0.45	0.11	0	0.26	0.04	0.14	0	0.02	0	0	0
June	179	0	0	0	0.03	0	0	0	0.03	0.12	0	0.13	0	0	0	0.18	0	0	0
June	180	0	0	0.41	0	0	0	0	0	0	0	0	0	0	0	0.55	0.11	0	0
June	181	0.01	0.11	0.01	0.02	0	0	0.04	0	0	0	0	0	0	0	0.83	0.13	0	0.53
July	182	0	0	0	0	0	0	0.02	0	0	0	0	0	0.26	0	0	0.54	0.08	0.31
July	183	0	0	0	0	0	0.83	0.03	0	0	0.18	0	0.08	0	2.97	0	0	0	0
July	184	0	0.03	0	0	0	0	0.25	0	0	0	0.02	0.01	0.02	0.04	0.01	0	0	0.1
July	185	0	0	0	0.03	0.03	0	0	0	0	0.03	0	0.28	0	2	0	0	0	0.52
July	186	0	0.25	0.9	0	0.32	0	0	0	0	0	0.02	0	0	0.1	0	0	0.67	0
July	187	0	0	0.34	0	0	0	0	0	0	0	0.19	0	0	0.03	0	0	0	0
July	188	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0.05	0	0	0	0.03
July	189	0	0	0	0	0	0	0	0.03	0	0	0	0.67	0	0	0.11	0.13	0	0
July	190	0	0	0	0	0	0	0.11	0	0	0	0	0	0	0.02	0	0.25	0.08	0.05
July	191	0	0	0	0.15	0.03	0	0.81	0	0	0	0.13	0	0	0.73	0	0	0.27	0.1
July	192	0.03	0	0	0.07	0	0.16	0.4	0	0	0	0.23	0	0	0.03	0	0	0.09	0
July	193	0.72	0	0	0.43	0	0.03	0.2	0.18	0	0	0	0	0	0	0	0.43	0.08	0.15
July	194	0	0.05	0	0.59	0.02	0	0	1.45	0	0	0	0	0	0.13	0	0.08	0	0.11
July	195	0	0.14	0	0	0.21	0	0	1.81	0	0	0	0	1.48	0.01	0	0	0	0.14
July	196	0	0	0	1.08	0	0	0	0	0	0	0	0.07	0.03	0.11	0.39	0	0	0
July	197	0	0.33	0	0.07	0	0.78	0.03	0	0.55	1.54	0	0	0	0	0	0	0	0.02
July	198	0	0	0	0	0.04	0	0	0	0	0	0	0.23	0	0	0	0	0.1	0
July	199	0	0.12	0	0	0	0.01	0	0	0	0	0	0.07	0.83	0.4	0	0.39	0	0
July	200	0.01	0	0	0	0.02	0	0	0	0.04	0.09	0	0	0.04	0.38	0	0	0.26	0.8

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
July	201	0.32	0	0.35	0	0.03	0	0	0	0.04	0.06	0	0	0.23	0	0	0	0	0
July	202	0	0	0	0	0	0.07	0.07	0	0	0	0	0	0.04	0	0	0	0	0
July	203	0	0	1.61	0	0	0	0.26	0	0	0.03	0	0	0	0	0	0	0	0
July	204	0	0.08	0	0	0	0	0	0	0	0	0.91	0	0	0	0	0	0	0
July	205	0	0	0	0	0	0.38	0	0	0.65	0	0	0	0.18	0.17	0	0	0	0
July	206	0	0	0	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0
July	207	0.94	0	0	0	0	0	0.08	0	0.02	0	0.24	0.03	0	0	0	0	0	0.48
July	208	0	0	0	0	0.02	0	0	0	0.39	0	0	0	0	0	0.06	0	0.06	0.52
July	209	0	0.01	0	0	0	0	0	0	0	0.03	0.02	0	0.37	0	0	0	0	0.2
July	210	0.02	0	0	0	0.05	0	0	0	0	0	0	0.03	0.05	0.52	0	0	0	0
July	211	0	0	0	0	0	0	0	0	0	0	0	0	0	1.09	0	0	0.27	0
July	212	0	0	0	0	0	0	0	0	0	0	0	0.34	0	0	0	0	0	0.32
Aug	213	0	0	0.12	0	0	0	0.03	0	0.03	0	0	0	0	0	0	0	0.26	0
Aug	214	0	0	0	0	0	0	0	0	0.86	0	0.02	0.01	0	0	0	0	0	0.16
Aug	215	0.12	0	0	0.08	0	0	0	0.01	0.69	0	0	0.09	0.18	0	0	0	0	0
Aug	216	0.05	0	0	0	0	0.21	0	0	0.03	0	0	0.01	0	0	0	0	0	0
Aug	217	0.04	0	0	0	0	0	0.1	0	0	0.03	0	0	0	0.36	0	0	0	0
Aug	218	0	0	0	0.68	0	0	0	0	0	1.09	0.02	0	0	0	0	0	0	0
Aug	219	0.1	0	0.01	0	0	0	0	0.08	0	0	0.05	0.27	0	0	0.01	0.59	0	0
Aug	220	0	0	0	0.01	0	0	0.02	0.03	0	0.3	0.07	0	0.28	0.37	0	0.02	0	0
Aug	221	0.58	0	0	0.1	0	0.01	0	0	0	0	0	0.09	0	0	0	0.73	0.12	0
Aug	222	0	0	0.63	0.03	0	0.02	0	0	0	0	0.57	0.02	0	0	0	0	0.11	0.37
Aug	223	0	0	0.06	0	0	0.29	0	0.18	0.26	0	0	0	0	0	0	0	0	0
Aug	224	0	0.02	0	0.65	0	1.43	0.91	0.13	0	0.92	0	0	0	0	0.01	0	0	0
Aug	225	0.18	0.03	0	0.28	0	0.19	0	0	0	0	0	0.15	0.09	0	0	0	0	0
Aug	226	0.01	0.11	0	0.18	0.02	0	1.52	0.42	0	0.33	0.49	0	0	0.02	0	0	0	0.07
Aug	227	0	0	0	0.03	0.42	0	0.06	0	0.48	0	0	0	0.09	0	0	0	0	0
Aug	228	0	0	0	0	0.1	0	0	0.04	0	0.06	0.01	0.03	0	0.01	0	0	0	0
Aug	229	0	0	0	0	0.03	0.41	0	0	0	0	0	1.33	0.16	0	0	0.69	0.05	0
Aug	230	0	0	0	0	0.15	0	0	0	0	0	0	0.02	0	0	0	0.36	0	0
Aug	231	0	0	0	0	0.02	0	0.56	0.05	0	0	0.14	0.44	0	0	0	0.01	0	0
Aug	232	0.09	0	0	0	0	0	0.03	0	0	0	0	0.19	0	0.58	0	0	0	0
Aug	233	0.16	0	0	0	0	0	0	0	0	0	0.04	0.04	0	0	0	0	0.03	0
Aug	234	0	0	0	0	0	0	0	0	0.32	0	0	0	0.32	0	0	0	0	0
Aug	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.38
Aug	236	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0
Aug	237	0	0	0	0	0	0.09	0	0.18	0	0	0	0	0	0	0	0	0	0
Aug	238	0	0.14	0	0	0	0.29	0	0.01	0	0	0	0	0.02	0	0	0	0	0
Aug	239	0	0.12	0.01	0	0	0	0	0	0	0	0	0.3	0.1	0	0	0	0	0
Aug	240	0	0.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	241	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0.06	0	0	0	0
Aug	242	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0.1	0.2	0	0	0.52
Aug	243	0.04	0	0	0	0	0	1.32	0	0	0	0	0.18	0	0	0	0	0	0
Sept	244	0	0	0	0	0	0	0.25	0	0.08	0	0	0.49	0.37	0	0	0	0	0
Sept	245	0	0	0	0	0	0	0.21	0	0.12	0	0	0	0	0	0	0	0.09	0
Sept	246	0	0	0.21	0	0.24	0	0.45	0	0.12	0.12	0	0	0	0	0	0	0	0.02
Sept	247	0	0	0	0	0.24	0	0.38	0	0	0	0	0	0	0	0	0	0	0.02
Sept	248	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0.01	0	0	0.23	0
Sept	249	0	0	0	0	0.02	0	0	0	0	0.16	0	0.35	0	0	0	0	0	0
Sept	250	0.66	0.88	0	0.36	0	0	0.18	0	0	0	0	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Sept	251	0	1.42	0	0.3	0	0	0	0	0	0	0	0	0.01	0	0	0.04	0	0.05
Sept	252	0	0.1	0	0.04	0	0.72	0	0	0	0	0	0	0	0	0	0.22	0	0.06
Sept	253	0	0.01	0.14	0	0	0.33	0	0	0	0	0.12	0	0	0	0	0	0.22	0
Sept	254	0	0	0.38	0	0	0.14	0.13	0	0	0	0	0	0	0	0	0	0	0
Sept	255	1.71	0	0	0	0.24	0.03	0.01	0	0	0	0	0	0.08	0	0	0	0.43	0
Sept	256	0	0	0	0	0	0.01	0	0.01	0	0.04	0	0.13	0	0	0	0	0.12	0
Sept	257	0	0	0.03	0	0	0	0.06	0.06	0	0	0	0.43	0	0	0	0	0	0
Sept	258	0	0	0	0	0	0.57	0	0	0	0	0	0	0	0	0	0.02	0	0
Sept	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	0	0	0
Sept	260	0.55	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.17	0	0	0
Sept	261	0.45	1.45	0	0	0	0	0	0	0	0	0	0	0.3	0	0.11	0.1	0	0
Sept	262	0.08	0	0	0	0	0.08	0	0	0	0	0	0	0.1	0	0	0	0.18	0
Sept	263	0	0	0	0.08	0	1.63	0.17	0.02	0	0	1.65	0	0	0	0	0	0	0
Sept	264	0	0	0	0.11	0	0.27	0.1	0.01	0	0	0.01	0	0.49	0	0.03	0	0.19	0
Sept	265	0	0.65	0	0	0	0	0	0	0	0	0.52	0	0	0	0	0	0	0.21
Sept	266	0.32	0.1	0	0	0	0	0.29	0	0	0	0	0	0	0	0	0.5	0.76	0.02
Sept	267	0	0	0	0	0	0	0	0	0	0	0.35	0	0	0.03	0.06	0	0.05	0
Sept	268	0	0	0	0	0	0	0	0	0	0	0.25	0	0	0	0.87	0	0	0
Sept	269	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0	0	0.16	0
Sept	270	0.2	0	0.05	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0.15	0
Sept	271	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0
Sept	272	0	0	0.04	0	0	0.35	0	0	0	0.06	0.14	0	0	0	0.15	0	0.34	0.02
Sept	273	0	0	0	0	0.33	0.03	0	0	0	0.01	0	0.37	0	0	0	0	0.03	2.83
Oct	274	0	0	0	0	0	0.34	0	0	0	0	0	0	0	0.01	0	0	0	0.69
Oct	275	0	0	0	0	0	0.33	0.04	0	0	0	0	0	0	0	0	0	0	0
Oct	276	0	0	0.04	0.11	0.03	0	0.08	0	0	0	0	0	0	0	0	0	0	0
Oct	277	0	0.38	0	0	0	0	1.19	0	0	0	0	0	0	0	0	0	0	0
Oct	278	0	0.75	0	0	0	0	0.4	0	0	0.03	0	0	0.03	0	0	0	0	0
Oct	279	0	0	0	0.09	0	0.05	0	0	0	0	0.68	0	0	0	0	0	0	1.21
Oct	280	0	0.59	0	0.06	0.54	0	0	0	0	0	0	0	0.11	0	0.14	0	0.07	0.15
Oct	281	0	0	0	0	0.28	0	0	0	0	0	0	0	0	0	0	0	0.25	0
Oct	282	0	0	0	0	0	0	0	0	0	0.02	0	0	0	0.16	0	0	0	0
Oct	283	0	0.5	0	0	0.01	0	0	0	0	0	0	0	0	0	0.34	0	0	0
Oct	284	0	0.2	0.56	0	0	0	0	0	0	0.09	0.05	0	0	0	0	0	0	0
Oct	285	0	0.08	0.04	0	0	0	0.05	0	0	0.03	0	0	0	0	0	0	0	0
Oct	286	0	0.23	0	0	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0
Oct	287	0	0	0	0	0	0	0	0.09	0	0.01	0	0.13	0.08	0	0	0	0	0
Oct	288	0	0.04	0.29	0	0	0	0	0.09	0	0	0	0	0.41	0	0	0	0	0.09
Oct	289	0	0	0	0.06	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0
Oct	290	0	0.01	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0
Oct	291	0.05	0	0	0	0.04	0	0.1	0	0	0.01	0	0	0	0	0	0	0.03	0
Oct	292	0	0	0	0	0.22	0	0	0	0	0	0	0	0.05	0	0	0	0	0
Oct	293	0.01	0	0	0	0.26	0	na	0	0	0	0.09	0	0.09	0.09	0	0	0	0
Oct	294	0	0	0	0	0.03	0	0.05	0	0	0	0	0	0	1.75	0	0	0	0
Oct	295	0	0	0.17	0	0	0	0	0	0.18	0	0	0	0	0	0	0	0	0.12
Oct	296	0	0	0.22	0	0.03	0	0	0	0	0	0.37	0	0.14	0	0.21	0	0	0
Oct	297	0	0	0	0	0.01	0	0	0	0	0.11	0	0	0.08	0	0	0	0	0
Oct	298	0.53	0.02	0.17	0	0	0	0	0	0.09	0.71	0	0.55	0	0	0.22	0	0	0
Oct	299	0	0.01	0	0	0	0	0	0	0.04	0.52	0	0	0	0	0.14	0	0	0
Oct	300	0	0.06	0	0	0	0	0	0	0	0	0.41	0	0	0	0	0	0	0

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		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Oct	301	0	0	0	0	0	0	0	0	0	0.19	0	0	0.02	0	0	0	0.42	0
Oct	302	0	0.18	0	0	0	0	0	0	0	0.02	0.06	0	0	0	0.07	0	0.7	0
Oct	303	0	0.06	0.06	0.81	0	0	0.08	0	0	0.16	0	0.11	0	0	0	0.42	0	0
Oct	304	0	0	0	0.02	0	0	0.05	0	0	0	0.04	0	0	0	0	0.41	0	0
Nov	305	0.2	0	0	0	0	0.12	0.08	0	0	0.01	0	0	0.15	0	0	0	0	0
Nov	306	0.03	0.15	0	0	0	0.42	0	0	0	0	0	0.1	0.2	0	0	0.02	0.61	0.21
Nov	307	0	0	0.01	0	0	0	0.31	0	0	0	0	1.34	0.12	0	0	0	0	0
Nov	308	0	0	0.01	0	0	0	0.1	0	0	0	0	1.92	0	0.18	0.88	0.18	0.13	0
Nov	309	0	0	0.37	1.19	0	0	0.22	0	0	0	0.19	0	0	0.04	0.14	0.2	0	0
Nov	310	0	0	0	0.97	0	0	0.05	0	0.11	0	0	0	0	0	0	0	0	0.13
Nov	311	0.02	0	0.05	0	0	0.19	0	0	0.42	0	0	0.05	0.1	0.09	0	0	0	0
Nov	312	0.03	0.14	0	0.05	0	0.16	0	0	0	0	0	0.35	0.16	0.13	0	0.1	0	0
Nov	313	0	0.06	0	0	0	0.05	0	0	0	0	0.02	0	0	0	0	0.2	0	0
Nov	314	0	0	0	0.19	0	0	0	0	0	0	0.46	0	0	0	0.39	0.01	0	0
Nov	315	0	0	0.1	0.46	0	0.1	0	0	0	0	0.37	0	0	0.07	0.07	0	0.01	0
Nov	316	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.03	0
Nov	317	0	0	0	0.12	0.02	0	0.02	0	0	0	0	0	0	0	0.06	0	0	0
Nov	318	0	0	0.02	0	0.18	0	0	0	0	0	0.01	0	0.01	0.35	0	0	0	0
Nov	319	0	0	0.09	0	0	0.01	0.04	0	0	0	0	1.87	0.78	0	0.03	0	0.35	0
Nov	320	0.03	0	0	0	0	0	0.2	0	0	0	0	0.03	0	0.7	0.05	0.05	0	0
Nov	321	0.01	0	0.11	0.11	0	0	0	0.53	0	0.15	0	0.02	0.04	0.25	0	0	0	0.05
Nov	322	0	0	0.04	0.34	0	0	0	0.16	0.23	0	0	0	0	0.06	0	0	0	0
Nov	323	0	0	0.28	0.14	0	0.02	0	0	0.23	0	0	0	0.01	0	0	0	0	0
Nov	324	0.03	0	0.33	0	0	0	0	0	0	0	0	0	0.22	0	0	0	0	0.12
Nov	325	0.03	0.01	0.15	0	0	0	0.13	0	0	0	0	0	0.05	0	0	0	0.02	0.22
Nov	326	0.01	0	0	0.03	0	0	0	0.12	0	0	0.08	0.26	0	0	0.27	0	0	0
Nov	327	0	0	0.22	0	0.24	0	0.08	0	0.04	0	0	0.15	0	0.04	0.74	0	0	0.32
Nov	328	0	0.08	0	0.47	0.05	0	0	0	0.03	0	0	0	0	0	0.03	0	0	0
Nov	329	0	0	0.07	0	0	0	0	0.01	0	0	0	0	0	0.03	0.24	0	0	0
Nov	330	0.03	0	0.01	0	0	0	0	0.02	0	0.06	0	0	0	0	0.22	0	0	0
Nov	331	0	0	0	0	0	0	0	0.01	0	0.22	0.14	0	0	0	0.23	0	0	0
Nov	332	0	0	0	0.11	0.15	0	0	0	0.16	0.36	0	0	0.01	0	0	0.07	0	0
Nov	333	0	0	0	0	0	0	0	0	0.03	0.01	0	0.21	0.53	0	0	0.25	0	0
Nov	334	0	0.01	0	0	0.07	0	0	0	0	0.24	0	0	0	0	0	0	0	0
Dec	335	0.22	0	0	0	0	0.03	0	0	0.17	0	0.01	0	0	0	0	0	0	0
Dec	336	0	0	0.03	0.07	0	0.03	0	0	0	0	0.03	0	0.04	0	0	0	0	0
Dec	337	0	0	0	0	0	0	0	0	0	0	0.28	0	0	0.36	0	0	0.2	0.09
Dec	338	0	0	0.03	0	0	0.05	0.06	0.12	0	0	0.14	0	0	0.28	0.22	0	0	0
Dec	339	0	0	0	0	0	0	0	0	0.06	0.01	0	0	0	0	0.03	0.61	0.05	0
Dec	340	0	0	0	0.04	0	0	0.76	0	0	0	0	0.04	0.07	0	0	0.6	0.1	0.02
Dec	341	0.22	0	0.05	0	0	0	0.65	0	0	0	0.05	0.22	0.23	0	0	0	0	0.01
Dec	342	0.08	0	0.01	0	0	0.08	0	0	0	0.2	0.09	0	0	0.14	0	0	0.19	0.3
Dec	343	0.02	0	0	0.05	0	0	0	0.12	0	0	0	0	0	0	0	0	0.03	0
Dec	344	0	0	0	0	0	0	0.37	0.12	0.01	0	0.25	0	0.08	0	0	0	0	0.13
Dec	345	0	0	0.04	0.06	0.43	0	0.27	0	0	0	0	0	0	0.39	0	0	0	0
Dec	346	0	0.1	0.02	0	0	0	0.6	0.02	0.12	0	0	0.2	0	0	0.02	0	0	0
Dec	347	0.05	0.12	0	0	0.03	0	0	0	0.2	0.06	0.15	0	0	0.11	0	0	0	0
Dec	348	0.06	0	0	0	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0
Dec	349	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	350	0.04	0.2	0.01	0.05	0	0	0.06	0	0	0.68	0	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Dec	351	0.02	0	0	0	0	0	0.04	0	0	0.14	0.07	0.1	0	0	0	0	0	0
Dec	352	0.03	0	0	0	0	0	0	0	0	0.01	0.03	0	0.02	0	0	0	0.17	0
Dec	353	0.01	0.05	0	0	0	0	0.02	0.01	0	0	0	0	0.04	0	0	0.05	0	0
Dec	354	0	0.12	0	0	0.11	0.02	0	0	0.12	0	0	0	0	0	0	0.35	0	0.15
Dec	355	0	0	0	0.11	0.11	0	0	0	0.3	0	0	0	0	0	0	0.16	0.21	0
Dec	356	0	0	0	0	0.03	0	0.26	0.15	0	0	0	0	0.07	0.05	0	0.12	0.13	0.47
Dec	357	0	0	0	0	0.22	0	0	0	0	0	0	0.15	0	0	0	0.07	0	0
Dec	358	0	0	0	0	0.08	0	0	0	0	0	0.01	0.08	0	0	0	0.13	0	0
Dec	359	0	0	0	0.06	0.07	0.05	0	0	0	0	0	0	0	0	0	0	0.13	0
Dec	360	0	0	0	0	0.07	0.03	0	0	0.05	0.04	0	0	0	0	0.3	0.17	0	0.05
Dec	361	0	0.08	0	0	0.01	0	0	0	0.04	0	0	0	0.16	0	0.76	0	0.07	0.03
Dec	362	0	0.1	0	0	0	0	0	0	0	0	0.64	0	0	0	0.01	0	0	0
Dec	363	0.2	0	0	0	0	0.09	0.12	0	0.09	0	0	0.1	0	0	0.19	0.02	0.26	0
Dec	364	0.14	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.02	0	0.38	0
Dec	365	0	0	0	0.13	0	0.02	0.12	0	0	0	0	0	0	0	0	0.21	0	0
29 Feb	366				0				0				0				0		

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Jan	1	0	0	0	0.02	0.13	0.06	0	0.72	0.09	0	0	0	0	0.31	0.01	0	0.08	0
Jan	2	0	0.17	0	0	0.18	0.06	0.07	0.15	0.01	0.17	0.07	0.04	0.13	0.13	0.01	0	0.01	0.13
Jan	3	0	0	0	0	0	0.01	0.01	0.08	0	0.04	0	0	0	0	0	0	0	0
Jan	4	0.18	0	0	0	0	0.01	0.06	0	0.06	0	0.04	0	0	0	0.14	0	0	0
Jan	5	0	0.18	0	0	0	0.16	0.21	0	0.1	0.06	0	0.01	0.04	0	0.03	0	0	0
Jan	6	0	0	0	0.08	0.23	0.05	0.22	0	0.03	0	0	0	0	0.08	0.13	0	0	0.15
Jan	7	0	0.51	0	0	0.02	0	0	0	0.05	0	0.02	0	0.32	0.04	0.03	0.09	0	0
Jan	8	0	0	0.02	0	0	0.03	0.3	0	0.25	0.07	0	0.04	0.02	0	0.03	0	0	0.02
Jan	9	0.2	0	0	0	0	0	0	0	0.12	0	0	0	0.39	0	0.05	0.09	0	0
Jan	10	0.22	0.05	0	0	0	0	0	0	0	0.25	0	0	0.01	0.21	0.03	0	0.04	0.15
Jan	11	0.1	0.1	0	0	0	0	0	0	0	0	0	0.02	0.09	0	0.01	0	0	0.16
Jan	12	0	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0	0.39	0
Jan	13	0.03	0	0.05	0	0.05	0	0	0	0	0.02	0	0	0.01	0	0	0.01	0.01	0
Jan	14	0.18	0	0.24	0	0.07	0	0	0	0	0	0	0	0.11	0	0.19	0	0.02	0
Jan	15	0.17	0	0.74	0.06	0.01	0	0	0	0	0.02	0	0	0.23	0.44	0.1	0	0.09	0
Jan	16	0.02	0	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan	17	0.07	0	0	0	0.04	0	0	0.03	0.03	0	0	0	0.01	0	0.38	0	0	0
Jan	18	0.06	0	0	0	0	0	0	0.13	0.05	0.06	0	0.1	0.45	0.14	0	0.03	0	0.06
Jan	19	0.02	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0.17	0	0	0.07
Jan	20	0.59	0	0	0.06	0	0	0	0.05	0.2	0	0	0	0.09	0	0	0	0.05	0
Jan	21	0.1	0	0	0	0	0	0	0.02	0.1	0.13	0	0.38	0.02	0	0	0	0	0.06
Jan	22	0.4	0	0.17	0	0	0.01	0	0.01	0.11	0	0.03	0	0	0	0	0	0.16	0
Jan	23	0	0.2	0.1	0.03	0	0	0.02	0	0	0.05	0	0	0	0	0	0.08	0	0
Jan	24	0	0.11	0	0.01	0.02	0	0	0	0	0.13	0	0	0.05	0	0	0	0	0.09
Jan	25	0.09	0.06	0.04	0	0.04	0.02	0	0.2	0.09	0	0	0	0	0.02	0.05	0.17	0.09	0.12
Jan	26	0.04	0.16	0.08	0	0	0.1	0	0.01	0.14	0.01	0.07	0.02	0.16	0	0.45	0	0	0.03
Jan	27	0	0	0.24	0	0	0	0.01	0	0	0.25	0.24	0	0.07	0	0.36	0	0	0
Jan	28	0.02	0	0	0.06	0	0	0	0.41	0	0	0	0	0.19	0	0.04	0.04	0	0
Jan	29	0.06	0	0.4	0	0	0	0	0.06	0	0.01	0	0	0.02	0	0.09	0	0.06	0.03
Jan	30	0.03	0.02	0.11	0	0.33	0	0	0	0.55	0	0	0	0	0.18	0	0	0	0.02
Jan	31	0	0	0.52	0	0	0	0.01	0	0.3	0	0	0.04	0.02	0	0	0	0	0
Feb	32	0.13	0	0	0	0.14	0	0.03	0.08	0	0.11	0	0	0	0	0	0.08	0	0
Feb	33	0	0.02	0	0.03	0	0	0.01	0.04	0	0.01	0	0.03	0	0	0	0	0	0.04
Feb	34	0	0	0	0	0.04	0	0	0.03	0.12	0.05	0	0.2	0	0.11	0	0	0	0
Feb	35	0	0	0	0	0.05	0	0	0.19	0	0.03	0	0	0	0.11	0	0	0	0.08
Feb	36	0	0.02	0	0	0.22	0	0	0	0.27	0	0	0.35	0.03	0.28	0	0	0	0
Feb	37	0	0.37	0	0	0.19	0	0	0	0.03	0	0.1	0	0	0	0	0	0.18	0
Feb	38	0	0.25	0.17	0	0.62	0	0.33	0.04	0	0.05	0	0.41	0.05	0	0	0.2	0.13	0.02
Feb	39	0	0.44	0	0.16	0	0	0	0	0.33	0.18	0	0.16	0.2	0	0	0.01	0.23	0
Feb	40	0.36	0.26	0.14	0.47	0.02	0	0	0	0	0.07	0	0	0	0	0	0.05	0	0
Feb	41	0.29	0.21	0.11	0.04	0.07	0	0	0	0.03	0	0	0	0.1	0.45	0	0	0	0.02
Feb	42	0	0.1	0.02	0.05	0.02	0.14	0	0	0.55	0	0	0	0	0	0	0.12	0	0
Feb	43	0	0.28	0.33	0.17	0	0.12	0	0	0	0	0.11	0	0	0	0.1	0.19	0	0.01
Feb	44	0	0	0.07	0	0	0	0	0	0.01	0.03	0.25	0	0	0.27	0.09	0.15	0	0.17
Feb	45	0	0.17	0.2	0.03	0.21	0	0	0	0	0.01	0	0	0	0	0.33	0.04	0.05	0.19
Feb	46	0	0	0	0.03	0.15	0	0	0.04	0	0	0	0.02	0.04	0	0.08	0	0.17	0.03
Feb	47	0.07	0.06	0	0.03	0	0.03	0	0	0.12	0.24	0	0	0	0.23	0	0.01	0	0
Feb	48	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0	0	0
Feb	49	0	0	0	0.14	0.04	0	0	0.66	0.06	0	0.02	0	0	0.02	0.13	0.01	0	0
Feb	50	0	0.79	0	0.01	0	0.03	0	0.11	0.09	0	0.25	0	0	0	0	0.15	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Feb	51	0.29	0.28	0.33	0	0.05	0.18	0.09	0.16	0.21	0	0.05	0.18	0	0	0	0.21	0	0
Feb	52	0.11	0.08	0	0	0.1	0.02	0.06	0	0.09	0.09	0	0	1.04	0	0	0	0	0.01
Feb	53	0.39	0.39	0.07	0	0.02	0.07	0	0	0	0	0	0	0	0	0.29	0	0.35	0
Feb	54	0.8	0	0	0	0.06	0	0	0	0	0	0	0.09	0	0	0.75	0	0.02	0
Feb	55	0.33	0.14	0	0	0	0.04	0	0	0	0.02	0	0	0	0	0.5	0.22	0	0
Feb	56	0.73	0.06	0	0	0	0	0	0	0.07	0.01	0	0	0.01	0	0.04	0	0	0
Feb	57	0.02	0.01	0	0	0.03	0	0.17	0	0.63	0	0	0	0	0	0.03	0	0	0
Feb	58	0.67	0.31	0	0	0	0.28	0.1	0.11	0.05	0	0	0	0	0	0.23	0	0	0
Feb	59	0.12	0	0.52	0	0	0.01	0	0.01	0	0	0	0	0	0.01	0.16	0.16	0	0
Mar	60	0	0.06	0	0	0	0	0	0	0.05	0	0	0	0.1	0.06	0	0	0	0.04
Mar	61	0.19	0	0	0.15	0.04	0	0.09	0	0.03	0.03	0	0	0	0.21	0.08	0.01	0	0
Mar	62	0.02	0.01	0.34	1.17	0.07	0	0	0	0	0	0.01	0.05	0.02	0.35	0.24	0	0	0
Mar	63	0.01	0	0.04	0.2	0.07	0	0	0	0.06	0.09	0	0	0	0	0.27	0	0	0.06
Mar	64	0	0	0	0	0.05	0	0	0	0.16	0	0.21	0	0.12	0.03	0.06	0.05	0	0.34
Mar	65	0.41	0.25	0	0	0.67	0	0	0	0.17	0	0.06	0.11	0.25	0	0	0.08	0.06	0.01
Mar	66	0.1	0.5	0	0	0.08	0	0.07	0	0	0.08	0	0.08	0.02	0	0	0	0	0
Mar	67	0.01	0	0	0.01	0	0	0.03	0.02	0	0.28	0	0	0.02	0	0	0	0.21	0
Mar	68	0.01	0	0.34	0	0	0.02	0.08	0.72	0	0	0	0	0.02	0	0	0	0.19	0
Mar	69	0	0	0.11	0	0	0	0.02	0.02	0	0	0	0	0.05	0	0.37	0.05	0	0.08
Mar	70	0.13	0.01	0	0.01	0	0.07	0	0	0.03	0	0	0	0.17	0.03	0.82	0	0	0.16
Mar	71	0.14	0	0.05	0	0	0.03	0.15	0	0	0	0	0	0	0.07	0	0	0	0
Mar	72	0	0	0.01	0	0	0	0.14	0.03	0.07	0.19	0.13	0.1	0	0.17	0	0.08	0.05	0.3
Mar	73	0	0	0.02	0	0.19	0	0	0	0.35	0	5.65	0.12	0	0	0	0.02	0	0
Mar	74	0	0.01	0	0	0	0.05	0	0	0	0.02	0.05	0	0	0.07	0	0.08	0	0
Mar	75	1.78	0.01	0.03	0	0	0	0	0	0	0	0	0	0	0.02	0	0.03	0	0
Mar	76	0	0.32	0.33	0.39	0	0	0	0.15	0.6	0	0	0	0	0	0	0	0	0.14
Mar	77	0	0	0.04	0	0	0	0	0.22	0.5	0.02	0.03	0.2	0	0	0.09	0	0	0
Mar	78	0	0	0.02	0	0	0.14	0.22	0.32	0.15	0	0.05	0.18	0	0	0.03	0	0.01	0
Mar	79	0	0.25	0.02	0	0	0.24	0	0	0	0	0	0.12	0	0.06	0.33	0	0	0
Mar	80	0	0.09	0	0	0	0.09	0	0.09	0.35	0	0	0	0	0.2	0	0	0	0
Mar	81	0	0	0.21	1.42	0	0.07	0	0	0.05	0	0.35	0.44	0	0.11	0	0	0.12	0
Mar	82	0	0	0.01	0	0	0.01	0.06	0	0.08	0	0.14	0.03	0.56	0	0	0.11	0.18	0
Mar	83	0	0.52	0.02	0	0	0	0.49	0.33	0	0	0.9	0	0.19	0	0	0	0.02	0
Mar	84	0.17	0	0	0	0	0	0.03	0.5	0.01	0.66	0.01	0	0	0	0	0.09	0.1	0
Mar	85	0	0	0	0	0	0.1	0.16	0.24	0	0	0	0	0.05	0.02	0	0	0	0.1
Mar	86	0	0.13	0	0	0	0	0	0.15	0.13	0.08	0	0	0.99	0	0	0	0	0.03
Mar	87	0	0.02	0.03	0	0	0	0.14	0.02	0.2	0.07	0	0	0.59	0	0.66	0	0	0
Mar	88	0.05	0.09	0	0	0	0	0.01	0.1	0	0	0	0	0.17	0.04	2.32	0	0	0.2
Mar	89	0	0.01	0	0	0.01	0	0	0	0	0.08	0	0	0	0	1.98	0	0	0
Mar	90	0	0	0	0	0	0	0	0.06	0.23	0.03	0	0.02	0.07	0	0	0	0.12	0
Apr	91	0	0	0	0	0	0	0.02	0	0.08	0.09	0.01	0	0.04	0	0	0	0.03	0
Apr	92	0.12	0	0	0.27	0	0	0	0.02	0.01	0	0.08	0.01	0.05	0	0	0	0.25	0.07
Apr	93	0.4	0.13	0	1.9	0	0.03	0	0	0.08	0.1	0.25	0.05	0	0.07	0	0.05	0.03	0.14
Apr	94	0	0.25	0	0.58	0	0.59	0	0	0.06	0.09	0	0	0	0.02	1.03	0	0.06	0.36
Apr	95	0	0	0.14	0.12	0.01	0	0	0	0.17	0	0	0	0	0	0.25	0	0.13	0
Apr	96	0	0.31	0	0	0.01	0	0	0	0	0	0.22	0	0	0	0	0	0	0
Apr	97	0	0.44	0	0.35	0	0.02	0.01	0	0	0.18	0.65	0.73	0.18	0.38	0	0	0	0.03
Apr	98	0	0.22	0	0	0.02	0.45	1.77	0	0.01	0	0.21	0	0.44	0.47	0	0	0	0.03
Apr	99	0.09	0	0.01	0	0	0.18	0	0	0	0.04	0.27	0	0	0	0	0.17	0	0
Apr	100	0.92	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Apr	101	0	0	1.26	0.27	0	0	0.04	0.58	0	0	0	1.63	0.04	0.05	0	0.4	0.51	0.61
Apr	102	0	0	0.68	0	0	0	0	1.76	0	0	0	0.5	0	0	1.07	0	0.71	0.4
Apr	103	0	0.55	0	0	0.67	0	0	0.74	0	0.51	0	0.8	0	0	0	0	0.02	0
Apr	104	0	0	0.06	0	1.5	0.03	0.45	0	0	0.21	0	0.1	0	0	0	0	0	0
Apr	105	0	0	0.64	0	0	0	0.05	0.36	0	0.16	0.16	0.07	0	0.29	0	0	0	0
Apr	106	0	0	0	0.4	0.49	0	0.24	0	0	0	0	0	0.02	0	0.03	0	0	0.05
Apr	107	0	0	0.17	0.35	0	0.03	0	0	0.11	0	0	0	0.23	1.94	0	0.12	0	0.23
Apr	108	0.33	0	0	0.52	0	0	0	0.75	0.07	0.01	0	0	0.19	0.6	0.15	2.58	0	0
Apr	109	0.27	0.18	0	0.54	0	0	0	0.26	0.5	0.08	1.35	0.01	0.06	0	0.35	0.29	0.08	0
Apr	110	0.11	0.24	0.07	0	0.27	0	0.05	0.57	0.59	0.32	1.06	0.32	0.13	0.07	0	0	0	0
Apr	111	0.19	0.25	0	0	0.1	0	0	0.01	0.27	0.01	0.7	0.27	0.26	0	0	0	0	0
Apr	112	0.45	0.28	0	0	0	0.21	0	0	0.02	0	0	0	0	0	0	0.24	0	0
Apr	113	0	0	0.03	0	0.03	0.61	0	0	0.09	0.16	0	0	0	0	0	0	0	0
Apr	114	0	0	0.05	0	0.16	0	0	0	0.07	0	0.47	0	0.16	0.02	0	0	0	0
Apr	115	0	0	0	0	0.11	0	0.74	0	0.35	0	0.03	0	0	0.13	0	0	0	0
Apr	116	0	0.06	0.47	0	0.02	0	1	0	0.58	0	0.15	0.11	0	0	0	0	0	0
Apr	117	0.81	0	0.08	0.4	0	0.19	1.11	0	0.11	1.49	0	0	0.16	0.08	0	0	0	0.23
Apr	118	0.93	0.02	0	0	0	0.05	0	0.28	0	0.37	0.15	0	1.76	0.7	0	0.72	0.02	0
Apr	119	2.19	0	0	0.04	0	0	0	0.04	0.06	0	0.52	0	1.16	0.01	0	1.22	0	0
Apr	120	0	0	0	0	1.92	0	0	0	0	0	0.41	0	0.38	0	0	0.15	0	0
May	121	0	0	0	0	0.56	0	0	0	0	0	0.27	0	0	0	0.17	0.23	0.01	0
May	122	0.03	0.07	0.03	0	0.17	0	0	0	0	1.92	0	0.36	0	0	0	0	0	0
May	123	0	0.54	0.01	0	0.09	0	0.02	0	0	0.52	0	0.04	0	0	0	0.35	0	0
May	124	0	0	0	0	0.01	0	0.9	0	0.27	0	0	0	0	0	0.05	0.83	0	0
May	125	0.03	0	0.04	0	0	0	0	0	0	0	0	0	0.08	0	0.02	0.28	0	0.2
May	126	0	0.12	0	0	0	0	0	0	0	0	0.13	0	0.32	0.09	0.09	0.06	0	0
May	127	0	0.98	0	0	0.19	0	0	0.05	0	0	0.01	0	0	0	0	1.22	0	0
May	128	0	0	1.07	0.16	0.02	0.1	0	0.81	0	0	0	0.22	0.29	0	0	1.84	0.06	0
May	129	0.16	0.21	3.09	0	0	0.31	0	0.2	0	0	0.36	0.11	0.12	0	0	0	0.53	0
May	130	0	0.29	0	0	0.08	0	0	0.05	1.59	0.05	0	0.04	0.18	0	0	0	0	0.58
May	131	0	0.07	0	0.7	0.05	0.02	0	0.34	0	0.68	0.05	0	0.17	0.37	0	0	0.15	0.32
May	132	0.21	2.09	0	0.06	0.16	0	0	0.03	0	0.33	0	0	0	0.12	0	0.1	0.06	0
May	133	0	0	0.01	0	0	0	0	0	0	0.22	0	0.13	0	0.2	0	0	0	0.06
May	134	0	0	5.08	0	0.02	0	0	1.19	0	0.25	0	0.05	0	0	0	0	0	0.02
May	135	0.21	0	1.85	0.07	0.33	0.04	0.19	0.02	0	0	0	0	0	0	0.26	0	0	0.03
May	136	0.42	0.32	0	0	0.13	0.31	0.22	0	0.24	0	0	0	0	0.53	0	0	0	0
May	137	0	0	0	0	0	0.06	0.05	0	0	0	0	0.26	0	0	0	0.09	0.3	0
May	138	0.05	0	0	0	0	0.22	0	0	0.03	0	0	0	0	0	0.22	0.94	0.04	0
May	139	0.01	0	0	0	0	0.03	0.16	0	0.04	0.1	0	0	0	0	0.26	0.02	0.05	0
May	140	0	0	0.29	0	0	0	0	0	0	0.03	0	0	0.35	0	0	0.02	0	0.15
May	141	0	0	0	0	0	0	0.16	0.01	0	0.45	0.06	0	0.08	0	0.03	0	0	0
May	142	0	0	0	0	0	0	0	0.12	0.32	0	0	0	0.52	0.42	0	0	0	0
May	143	0	0	0.5	0	0	0.6	0	0	2	0.09	0.05	0	0.16	0.04	0	0	0	0
May	144	0.04	0	1.22	0	0	0.03	0	0.27	0.01	0.05	0.1	0	0	0.4	0	0	0	0
May	145	0	0	1.06	0	0	0.1	0.15	0	0	0.01	0.09	0.06	0.06	0.02	0	0	0	0
May	146	1.04	0.08	0.34	0	0.68	0	0	0	0	0	1.08	0	0	0.02	0	0	0	0.17
May	147	0	0.13	0.08	0	0	0.24	0	0.21	0	0.51	2.06	0	0	0.33	0	0	0	0
May	148	0	0.02	0	0	0	0.46	0	0.12	0.12	0.22	0.23	0.06	0.03	0	0	0.07	0.54	0
May	149	0	0.1	0.05	0	0	0	0	0	0.19	0.93	0.05	0.05	0	0	0	0.04	0.05	0
May	150	0	0.22	0	0	0.02	0	0	0.24	0.41	0.47	0	0.45	0	0.23	0.32	0.56	0.25	0.17

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
May	151	0.01	0.12	0.12	0	0.15	0.07	0.51	1.59	0.29	0	0	0.07	0.3	0.02	0	0.01	0.16	0.57
June	152	0	0.27	0.32	0	0.05	0.08	0.16	0	0	0	0	0	0	0.31	0	0.2	0.05	0.79
June	153	0.4	0.12	0.04	0	0	0	0	0	0.06	0	0.77	0	0	0	0.06	0	0	0.2
June	154	0.42	0	0	0	0	0	0	0	0.1	0.02	0	0	0	0.08	0	0	0	0
June	155	0	0	0.17	0.04	0.01	0	0	0	0.34	0.01	0	0	0.04	0.03	0	0	0	0
June	156	0.42	0.06	0	0.04	0	0.13	0	0	0	0	0.01	0.6	0	0	0	0	0	0
June	157	0.39	0.19	0	0.04	0.17	0.08	0	0	0.01	0	0	0	0	0	0	0	0.06	0
June	158	0.12	0	0.22	0	0.11	0.23	0.16	0	0.1	0.33	0	0.24	0.22	0.74	0	0.03	0.6	0.31
June	159	0.01	0.02	0	0	0	0.46	0	0.02	0.11	0	0	0	0.13	0.07	0.16	0	0.02	0.2
June	160	0	2.27	0	0	0.58	0.04	0	0	0.32	0.03	0	0.32	0.84	0	0	0	0.07	0.02
June	161	0.06	3.28	0.09	0.2	0.12	1.2	0.74	0	0.25	0.17	0	0.05	0.06	0.12	0.19	0	0	0
June	162	0.72	0	0.03	0.09	0.58	0.02	0.03	0.52	0	1.65	0	0	0.01	0	0	0.24	0	0
June	163	0	0	0.3	0	0.43	0.01	0	3.9	0.39	0	0	0	0	0.03	0.6	0	0	0
June	164	0	0.01	0	0	0.36	0	0.53	0.06	0.08	0.15	0	0	0.01	0	0.12	0	0	0
June	165	0.15	0.15	0	0	0.85	0	0	0	0	0	0.39	0	0.29	0.12	0.17	0	0	0
June	166	2.34	0.5	0.27	0.07	2.01	0.15	0	0	0	0.02	0.01	0	0.12	5.58	0	0	0	1.07
June	167	0.03	0	0.05	0	0	0.24	0	0	0	0.02	0.04	0	0.21	2.97	0.37	0.12	0.85	0.12
June	168	0	0.03	1.2	0	0	0.02	0	0.12	0	0.73	0	0	0.51	0.03	0.43	0.67	1.06	0.01
June	169	0.06	0	0.5	0	0.05	0	0	0.09	0.63	0.5	0.63	0.06	0.33	1.54	0	0	0	0
June	170	0	0.27	0	0	0	0.36	0	0.11	0.03	0.34	0.46	0	0.52	0	0	0	0.08	0.23
June	171	0.08	0	0	0.04	0.01	0	0.01	0	0	1.36	0.12	0	0	0	0	0	0.22	0.04
June	172	0.17	0	0	0.09	0	0	0.18	0	0.19	0	0.09	0.09	0.04	0	0	0	0	0.16
June	173	0.02	0.67	0	0.43	0.13	0.32	0.42	0	0	0.46	0	0.01	0	0	0	0	0.02	0.2
June	174	0.03	1.88	0.85	0.04	0.53	0	0.36	0	0	0	0	0.02	0	0.07	0	0.07	0	0
June	175	0	0.05	0	0.05	0.2	0.36	0.65	0	0	0	0	0	0	0.43	0.13	0.02	0.11	0
June	176	0	0	0.02	0	0.08	0.86	0.02	0.03	0.5	0.01	0	0	0	0.02	0	0.38	0	0
June	177	0	0	0	0	0	1.08	0.5	0	0	0.83	0.09	0	1.21	0	0.19	0.02	0	0
June	178	0	0	0	0	0	0	0.06	0	0	0	0	0	0	0.05	0	0	0.17	0
June	179	0	0	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	180	0	0.33	0	0	0	0	0	0	0.03	0	0	0	0.02	0	0	0.05	0	0
June	181	0	0.13	0.03	0	0	0	0	0	0.21	0	0.21	0	0	0	0.02	0.27	0	0
July	182	0	0.06	0	0.39	0	0.1	0	0	0	0	0.09	0	0	0	0	0.27	0	0.1
July	183	0	0.1	0.01	0.11	0	0.02	0	0	0	0	0	0.78	0	0	0	0	0	0.07
July	184	0	0.21	0	0	0	0	0	0	0	0.83	0	0.57	0	0.19	0	0	0	0
July	185	1	0.01	0	0	0.26	0	0	0	0.07	0	0.15	0	0	0.01	0	0	0.15	0
July	186	0	0	0.14	0.01	0	0	0	0	0	0.01	0	0	0.03	0	0.32	0	0.03	0
July	187	0.4	0	0.04	0	0	0.22	0.08	0	0	0	0	0.38	0.45	0	0.02	1.21	0.53	0
July	188	0	0	0	0.04	0	0	0.21	0.13	0	0	0	0.07	0	0	0	0.2	0	0
July	189	0	0	0	0.13	0	0	0	0.1	0	0.02	0	0.18	0	0.05	0	0.3	0	0
July	190	0.45	0	0.73	0	0	0	0	0.53	0	0.05	0.01	0.83	0	0	0.11	0.17	0.2	0
July	191	0.03	0	0	0.03	0	0.17	0	0	0	0	0	0	0.02	0	0	0	0	0
July	192	0	0.21	0	0.01	0	0.21	0	0.03	0	0	0	0	0	0	0.01	0	0	0
July	193	0	0.21	0.87	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0
July	194	0	0	0.05	0.05	0	0.52	0	0	0	0.02	0	0	0	0	0	0	0.45	0.18
July	195	0.28	0	0	0.01	0	0	0	0.01	0	0	0	0	0	0.11	0.79	0	0.42	0.02
July	196	0.17	0	0	0	0.14	0	0	0	0	0.1	0	0	0	0.07	0.06	0	0	0.03
July	197	0	0	0	0	0.17	0.08	0.37	0	0	0	0	0	0	0.01	0	0.2	0.88	0
July	198	0.05	0	0.04	0	0	0	0.43	0	0	0	0	0.4	0	0	0	0.3	0	0
July	199	0	0	0	0	0	0.28	0	0	0	0.16	0	0.23	0	0	0	0	0	0
July	200	0	0	0.04	0	0.03	0	0.02	0	0	0	0.3	0.15	0	0	0	0.01	0	0.07

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
July	201	0	0	0	0	0.06	0	1.14	0	0	0	0.68	0	0	0.02	0.03	0	0.4	0.05
July	202	0	0	0	0.2	0	0	0.05	0	0	0.04	0.04	0.01	0.16	0.5	0.01	1.59	0	0.05
July	203	0	0	0	0.14	0	0	0	0	0	0	0.47	0	0	0.08	0	0.01	0	0
July	204	0	0	0.21	0.02	0	0	0.09	0.97	0	0.35	0.15	0	0.1	0	0	0	0.03	0
July	205	0	0	0	0	0.39	0	0.02	0	0	0	0.04	0.03	0.02	0	0.04	0	0	0.01
July	206	0.16	0	0	0.05	0.01	1.28	0	0	0.42	0.26	0	0	0	0	0.07	0	0.62	0
July	207	0.12	0	0	0	0.1	0.4	0	0	0	0.03	0	0	0	0	0.02	0	0.16	0.73
July	208	0.42	0	0.06	0	0.09	0.12	0	0	0	0.09	0	0	0	0	0.27	0	0	0.08
July	209	0	0	0	0.68	0	0	0	0.01	0.25	0.46	0	0	0	0	0	0	0	0
July	210	0	0	0.07	0	0	0.66	0	0	0	0.02	0	0	0.04	0	0	0.09	0.3	0
July	211	0.2	0.09	0.08	0	0	0	0	0	0	0	0	0	0	0.51	0	0.14	0	0
July	212	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0.01	0	0.25	0	0
Aug	213	0	0	0	0	0	0	0.07	0.01	0	0.08	0	0.27	0.17	0.01	0	0.01	0.04	0
Aug	214	0	0	0	0	0.16	0	0	0	0	0.21	0	0	0	0.18	0	0.23	0	0
Aug	215	0	0	0	0	0	0	0	0	0	1.03	0	0	0	0.01	0	0	0	0.05
Aug	216	0	0	0.68	0	0	0	0	0	0	0.01	0.02	0	0.03	0	0.05	0	0	0
Aug	217	0	0	0.29	0	0	0	0	1.6	0	0	0	0	0	0	0.12	0	0	0
Aug	218	0	0	0.22	0.03	0	0.01	0	0.09	0	0.04	0	0	0	0.09	0.02	0	0	0
Aug	219	0	0	0.2	0	0.03	0	0	0.86	0	0	0.41	0.02	0	0	0	0	0.74	0
Aug	220	0	0	0	0.4	0.01	0	0	0	0	0	0	0.32	0	0	0.35	0	1.44	0
Aug	221	0	0.02	0	0	0	0.09	0	0	0	0	0	0.01	0	0	0.53	0	0.1	0.42
Aug	222	0	0	0	0	0.02	1.53	0	0	0	0	0	1.78	0	0	0.36	0	0	0.08
Aug	223	0.08	0	0	1.01	0	0.42	0	0	0	0	0	0.07	0	0.06	0	0	0	0.06
Aug	224	0.06	0	0	1.21	0	0	0.17	0	0	0	0.13	0	0	0.02	0	0	0	0
Aug	225	0	0	0	0	0	0	0	0	0.12	0	0	0.55	0	0.03	0	0	0.38	0
Aug	226	0	0.1	0.05	0	0.03	0.02	0	0	0	0	0	0.03	0.27	0.05	0.05	0.87	0.11	0.09
Aug	227	0	0	0	0	0	0	0	0	0	0	0	0	0.28	0	0.12	0.55	0	0.52
Aug	228	0	0.05	0	0	0	0.53	0	0	0	0	0	0	0	0	0	0	0.02	0.21
Aug	229	0	0	0	0	0	0	0	0	0	0.47	0	0	0	0.02	0	0	0.27	0.17
Aug	230	0	0	0.15	0	0	0	0	0	0.69	0.05	0.08	0	0.04	0	0	0.03	0	0
Aug	231	0	0	0	0.47	0	0.13	0.03	0	0	0.01	0	0	0	0	0	0	0.25	0
Aug	232	0	0	0.16	0.73	0	0	0	0	0	0.6	0.02	0	0	0	0	0	0	0
Aug	233	0	0.05	0.07	0.18	0	0	0	0	0.05	0.33	0	0	0	0	0	0	0	0.75
Aug	234	0.03	4.04	0	0.03	0	0	0	0	0	0.35	0.12	0	0	0	0	0	0.23	0
Aug	235	0	2.19	0.09	0	0	0	0	0	0	0	0.11	0	0	0	0.03	0	0	0
Aug	236	0	0	0.01	0	0	0.64	0	0	0	0	0	0	0	0	0	0	0	0
Aug	237	0	0.19	0	0	0	0.16	0	0	0	0	0	0	0	0.12	0	0	0.39	0
Aug	238	0	0	0.28	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
Aug	239	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	1.04	0.62	0	0.02
Aug	240	0	0.2	0.02	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0.04	0
Aug	241	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0.03	0	0
Aug	242	0.2	0.89	0.07	0	0.07	0.13	0	0	0.09	0	0	0	0	0	0.02	0	0	0
Aug	243	0	0.04	0.02	0.1	0	0	0.52	0	0	0	0	0	0	0.02	0	0	0	0.35
Sept	244	0.97	0	0	0	0	0	0	0	0	0.1	0	0.75	0	0	0.17	0	0	0.02
Sept	245	0.25	0	0	0	0	0	0	0.33	0	0.02	0.75	0.02	0	0	0.26	0	0	0.5
Sept	246	0.03	0	0	0	0.02	0.07	0	0.31	0	0	0.27	0	0	0	0	0	0	0
Sept	247	0	0	0	0	0	0.75	0	0	0.98	0	0	0	0	0	0	0	0	0
Sept	248	0	0	0	0	0	0.22	0	0	3.39	0	0	0	0	0	0	0	0	0
Sept	249	0	0	0.16	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0
Sept	250	0	0	0.03	0.14	0	0	0	0.26	0	0.01	0	0	0	0	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Sept	251	0	0	0	0	0	0.22	0	0	0	0.07	0.09	0	0	0.21	0	0	0	0
Sept	252	0.01	0	0	0	0	0	0	0.13	0	0	0	0	0	0.05	0	0	0	0
Sept	253	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.01	0
Sept	254	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0.19	0	0
Sept	255	0	0	0	0	0.11	0	0	0.08	0	0.17	0	0.28	0	0	0.01	0.01	0.4	0
Sept	256	0	0	0.25	2.32	0.95	0	0	0.16	0	0	0	0	0	0	0	0	0	0.28
Sept	257	0.03	0	0	0	1.1	0	0	0.01	0	0	0.04	0	0	0	0	0	0	0
Sept	258	0	0	0.15	0	1.9	0	0	0	0.02	0	0.36	0	0	0.4	0	0	0	0
Sept	259	0	0.02	0.84	0.55	0.26	0.16	0	0	0	0	0.12	0	0	0.3	0	0	0	0
Sept	260	0.02	0	0	0.06	0.05	1.53	0.06	0	0.07	0	0	0	0.02	0	0	0.02	0	0.22
Sept	261	0.06	0	0.1	0	0.39	0	0	0	0	0	0	0	0.14	0	0	0.09	0	0
Sept	262	0.05	0	0	0	0.01	0	0	0	0	0	0	0	0.02	0	0	0	0	0
Sept	263	0	0.49	0.03	0	0	0	0	0	0.23	0	0.02	0	0	0.03	0	0	0	0.09
Sept	264	0.33	0	0.03	0	0	0	0	0	0.37	0	0.31	0	0	0.01	0.02	0	0	0
Sept	265	0.12	0	0.68	0	0	0.02	0.09	0	0	0	0	0	0	0	0	0	0	0
Sept	266	0	0.11	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0
Sept	267	0	0	0	0	0	0	0	0.47	0	0	0.05	0	0	0	0	0	0	0
Sept	268	0	0	0	0	0	0	0.06	0.19	0	0	0	0	0	0.01	0	0	0	0.05
Sept	269	0	0	0	0.75	0	0	0	0	0	0.03	0.16	0	0	0.02	0	0	0	0.02
Sept	270	0	0.12	0	0	0	0	0	0	0	0	0	0	0.09	0.29	0	0	0	0
Sept	271	0	0	0.04	0	0	0	0	0	0.32	0	0	0	0	0	0	0	0	0
Sept	272	0	0	0.81	0.06	0	0	0	0	0	0.03	0	0	0.05	0	0	0.04	0	0
Sept	273	0	0	0	0.13	0	0	0	0	0	0.02	0	0	0	0	0.06	0	0	0
Oct	274	0	0	0	0	0	0	0.33	0	0.28	0	0	0	0	0	1.02	0	0.09	0
Oct	275	0	0.09	0	0	0.15	0	0.02	0	1.98	0	0	0	0	0	0.13	0.03	0.09	0
Oct	276	0	0	0	0.7	0	0.13	0.02	0	0.06	0	0.05	0	0	0	0	0	0.03	0
Oct	277	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0.18	0	0	0	0
Oct	278	0	0	0	0	0	0	0	0	0	0	0	0.15	0	0.12	0	0	0	0
Oct	279	0	0	0	0	0.32	0	0.1	0	0	0.92	0	0.05	0	0	0	0	0	0
Oct	280	0	0	0	0	0	0	0	0.34	0	0	0	0	0	0.18	0.65	0	0	0
Oct	281	0	0	0	0	0	0	0	0	0	0	0	0	0.09	0.05	0.04	0	0.1	0
Oct	282	0	0	0	0	0	0	0.15	0	0	0	1	0	0.04	0	0	0	0.39	0
Oct	283	0	0	0	0	0	0	0	0.1	0	0	0.35	0	0	0	0.27	0	0	0
Oct	284	0	0	0	0	0	0	0.15	0	0	0	0.05	0	0	0	0	0	0	0
Oct	285	0	0	0	0	0.02	0	0.7	0	0	0	0	0	0	0	0	0.18	0.35	0
Oct	286	0.02	0	0	0.52	0	0	0.11	0.22	0	0	0	0	0	0	0	0	0.28	0
Oct	287	0	0	0	0.58	0.01	0	0	0.02	0	0	0	0	0.08	0	0	0	0	0
Oct	288	0	0	0	0	0.04	0	0.03	0	0.39	0.15	0	0	0	0	0	0	0	0
Oct	289	0	0	0	0	0	0	0.01	0	0.08	0	0	0	0.12	0	0	0	0.09	1.08
Oct	290	0	0	0	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0	0.44
Oct	291	0	0.08	0	0.05	0	0	0	0	0.44	0	0	0	0	0	0	0.3	0.07	0.8
Oct	292	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0	0	0.12
Oct	293	0.15	0	0	0	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0
Oct	294	0	0	0	0.17	0	0	0	0	0	0	0	0	0	0	0.05	0	0.18	0
Oct	295	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0	0.1	0	0
Oct	296	0	0	0	0	0.02	0	0	0	0	0	0	0	0.53	0	0	0	0	0
Oct	297	0	0	0	0	0.01	0	0	0	0	0	0.57	0	0.51	0.05	0	0	0	0.04
Oct	298	0	0	0	0	0	0	0	0.08	0	0	0	0	0	0	0	0.32	0	0
Oct	299	0	0	0	0	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	300	0	0	0	0	0	0.2	0	0.21	0.34	0	0	0	0.1	0.03	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Oct	301	0	0	0	0	0.51	0	0	0.65	0.62	0.05	0	0	0	0	0	0	0	0.1
Oct	302	0	0	0	0	0	0	0.01	0.16	0.18	0	0	0	0	0	0	0	0.27	0
Oct	303	0.4	0	0	0	0	0	0	0.64	0	0.13	0	0.33	0	0	0.21	0	0	0
Oct	304	0.52	0	0	0.04	0	0	0	0	0	0.32	0.02	0.92	0	0	0	0	0.03	0
Nov	305	0	0.4	0	0	0.23	0	0.39	0	0	0	0.53	0.05	0	0	0	0	0.01	0
Nov	306	0	0.04	0	0	0.35	0	0.26	1.02	0	0	0.04	0	0	0	0	0	0	0
Nov	307	0	0	0	0	0.03	0	0	0.51	0	0	0.26	0	0	0	0	0	0	0
Nov	308	0	0.09	0	0	0	0	0	0	0	0	0.05	0	0	0	0	0	0.01	0
Nov	309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	310	0	0	0	0	0	0.16	0	0	0.04	0	0	0	0	0	0	0	0	0
Nov	311	0.15	0	0	0	0	0.02	0	0.01	0	0.3	0	0	0	0	0	0	0	0
Nov	312	0	0	0	0.22	0	0.05	0	0.69	0	0	0	0	0	0	0.62	0	0	0
Nov	313	0	0	0	0.08	0	0	0	0	0	0	0	0	0.27	0	0	0.13	0.02	0.1
Nov	314	0	0	0	0	0	0.33	0	0.23	0	0	0	0	0	0	0	0.82	0.05	0
Nov	315	0.15	0	0.03	0.06	0	0.25	0.18	0.05	0	0	0	0.4	0.09	0.01	0	0.1	0.2	0
Nov	316	0	0	0.15	0	0	0	0.17	0.09	0	0	0	0	0	0.02	0	0	0	0
Nov	317	0	0.03	0	0	0	0	0.15	0.75	0	0.05	0	0.66	0	0	0	0.01	0	0.09
Nov	318	0	0.01	0	0	0	0.01	0	0.09	0.16	0.02	0	0	0	0	0	0	0	0.55
Nov	319	0	0.27	0	0	0	0.04	0	0	0	0	0	0	0	0	0.12	0	0	0
Nov	320	0	0.01	0.03	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0.04
Nov	321	0	0	0	0	0	0.01	0.24	0	0.14	0.01	0	0	0	0.06	0	0	0	0.03
Nov	322	0	0	0	0	0	0.16	0	0	0.11	0	0	0	0	0	0	0.02	0	0
Nov	323	0	0.01	0	0	0	0	0	0	0.04	0	0.07	0	0.12	0	0.75	0	0	0
Nov	324	0	0.29	0	0	0	0.13	0	0	0.02	0	0	0	0	0.14	0.54	0.01	0.08	0
Nov	325	0	0.56	0	0	0.04	0	0	0.2	0	0	0	0	0	0	0	0	0.26	0
Nov	326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov	327	0	0	0	0	0	0	0	0	0.04	0	0	0.14	0.28	0.07	0	0	0	0.06
Nov	328	0	0	0.06	0	0.01	0	0	0	0	0	0	0.01	0.06	0	0	0	0.35	0.03
Nov	329	0	0	0.02	0	0.07	0.02	0	0	0	0	0	0	0.48	0	0	0	0.15	0
Nov	330	0	0.07	0	0.3	0.09	0.14	0	0.1	0.5	0.04	0	0.16	0.06	0.08	0	0.18	0	0
Nov	331	0	0.02	0.03	0	0	0.14	0	0.2	0.2	0.1	0	0	0.06	1.02	0	0.2	0.2	0
Nov	332	0	0.03	0.02	0	0	0	0	0	0.08	0.1	0	0.07	0	0.02	0	0.07	0.18	0
Nov	333	0	0	0	0	0	0	0	0	0.05	0	0	0.01	0.02	0.07	0	0	0	0.04
Nov	334	0	0.05	0	0	0	0	0	0	0.07	0	0	0	0	0.16	0.16	0	0	0
Dec	335	0	0	0	0.11	0	0	0	0.4	0	0	0	0	0.1	0.42	0	0.09	0	0.29
Dec	336	0	0.04	0	0.15	0	0.25	0	0	0	0	0	0	0.1	0.29	0.04	0.06	0	0.54
Dec	337	0	0.11	0	0	0	0.1	0	0.02	0	0.02	0.02	0	0	0	0.13	0	0	0
Dec	338	0	0.04	0	0	0	0	0	0	0	0.07	0.17	0	0	0	0.11	0.14	0	0
Dec	339	0	0.04	0	0	0	0.18	0.27	0	0	0.27	0.19	0	0.01	0	0.01	0.2	0.32	0
Dec	340	0.05	0	0	0	0.22	0	0.05	0	0	0.01	0	0.02	0	0.19	0	0	0.17	0
Dec	341	1.05	0	0	0	0	0	0.2	0	0.22	0	0	0	0	0	0.31	0	0.01	0
Dec	342	0.15	0	0	0	0.12	0	0.06	0	0.04	0.14	0	0	0.18	0.24	0.04	0	0	0.01
Dec	343	0.05	0	0	0.12	0.03	0	0	0	0	0	0	0	0	0	0	0.04	0	0
Dec	344	0.15	0	0	0	0.03	0	0.01	0.32	0.18	0	0	0	0	0.14	0	0.04	0.05	0.1
Dec	345	0	0	0.37	0	0.15	0	0	0	0	0	0	0	0.2	0	0	0	0.06	0
Dec	346	0.33	0.1	0	0	0.05	0	0	0.1	0	0	0.8	0.25	0	0	0	0.04	0	0
Dec	347	0	0	0	0	0	0.28	0	0	0	0	0.07	0	0.09	0	0	0	0	0
Dec	348	0	0.2	0.02	0	0	0.06	0	0	0	0	0	0.17	0.1	0	0	0	0	0
Dec	349	0	0.29	0	0	0	0	0	0	0.08	0	0	0.18	0.23	0	0	0.05	0.01	0
Dec	350	0	0.32	0.02	0	0	0	0	0	0.02	0	0	0.17	0.01	0	0.11	0	0.05	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
Dec	351	0.12	0.04	0	0	0.18	0	0	0	0	0	0.09	0	0	0	0	0	0	0
Dec	352	0	0	0	0	0.01	0.21	0	0.25	0	0	0.35	0.01	0	0	0.1	0	0	0
Dec	353	0	0	0	0	0.01	0.09	0	0	0.02	0	0	0.51	0	0	0.07	0.19	0	0.08
Dec	354	0.01	0	0	0	0.09	0.02	0.06	0	0.02	0.01	0	0.12	0	0.02	0.01	0.01	0	0
Dec	355	0	0	0	0	0.06	0.06	0	0	0	0.1	0	0.07	0	0	0	0.13	0	0
Dec	356	0	0.12	0	0.13	0	0	0.53	0	0	0	0	0.25	0	0	0	0	0	0
Dec	357	0	0	0	0	0	0.05	0.06	0	0	0	0.05	0	0	0	0	0.17	0	0
Dec	358	0	0.15	0	0	0.14	0	0.06	0.05	0	0.22	0.01	0	0	0	0.15	0.16	0	0.48
Dec	359	0	0.11	0	0	0.02	0	0	0	0	0.01	0.12	0	0.01	0.08	0	0.1	0	0.13
Dec	360	0	0.24	0.02	0	0.25	0.25	0.03	0	0.05	0.04	0.2	0	0	0.05	0.08	0.01	0	0
Dec	361	0	0	0	0	0	0.01	0	0	0	0	0	0	0.54	0	0	0	0	0
Dec	362	0	0	0	0.01	0.21	0	0.1	0	0	0	0.02	0	0.06	0.13	0	0	0	0
Dec	363	0.03	0	0	0	0.12	0	0	0	0	0	0.01	0	0	0.2	0	0	0	0.06
Dec	364	0	0.07	0.03	0	0.08	0	0.65	0.02	0	0.35	0	0	0	0.18	0.07	0.01	0	0
Dec	365	0	0	0	0.33	0.02	0.01	0.96	0.1	0	0.32	0.03	0	0.63	0.17	0.14	0	0	0
29 Feb	366		0				0				0.18				0.1				0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Jan	1	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0.1	0	0.54	0	0
Jan	2	0	0	0	0	0.02	0.3	0	0	0.03	0	0	0	0	0.18	0.07	0.03	0	0
Jan	3	0	0	0.12	0.15	0	0.19	0	0	0.1	0.02	0	0	0.14	0.04	0.01	0.94	0	0
Jan	4	0	0	0	0.02	0	0.18	0	0	0	0	0	0	0	0	0	0.13	0.99	0
Jan	5	0	0.03	0	0	0	0	0	0	0	0	0	0	0.02	0.24	0	0.02	0	0
Jan	6	0.14	0.11	0.04	0.03	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0
Jan	7	0	0	0.06	0	0	0.14	0	0	0	0	0	0.05	0	0.07	0	0	0	0
Jan	8	0	0.07	0	0	0.01	0	0	0.03	0	0	0	0.03	0.13	0.08	0	0	0	0.01
Jan	9	0	0.13	0.71	0.02	0.06	0	0	0	0.07	0.09	0	0	0.18	0	0	0	0.41	0.01
Jan	10	0	0.11	0.09	0	0.03	0.01	0	0.01	0.02	0	0	0	0	0	0	0	0.01	0
Jan	11	0	0.02	0.32	0.08	0	0	0	0.09	0	0	0	0	0	0	0	0	0	0.02
Jan	12	0	0.01	0	0.1	0	0	0	0.14	0	0	0	0.05	0.08	0.01	0.17	0	0	0.14
Jan	13	0	0.11	0	0.02	0	0	0	0	0	0	0	0.14	0	0.38	0	0	0	0.03
Jan	14	0	0.03	0	0.01	0	0	0.12	0	0.02	0	0	0.38	0	0.56	0	0	0	0.01
Jan	15	0.05	0.35	0	0	0.23	0	0.01	0	0	0	0	0.03	0	0.02	0	0	0.22	0.21
Jan	16	0	0	0	0.24	0.28	0	0	0.09	0	0.02	0.13	0.06	0	0.25	0.02	0	0.02	0
Jan	17	0	0.02	0	0.03	0	0.02	0	0	0	0.07	0	0	0	0.24	0.14	0.24	0	0
Jan	18	0	0	0	0	0.01	0	0.01	0	0	0	0	0.04	0	0.06	0	0.01	0	0
Jan	19	0	0	0	0.01	0.07	0	0.09	0	0.07	0	0.3	0	0	0.15	0	0.02	0	0
Jan	20	0	0	0	0	0.01	0	0.03	0	0	0	0.16	0	0	0	0.23	0.04	0	0.12
Jan	21	0	0	0	0	0	0.53	0.38	0.12	0	0	0	0	0.11	0	0	0	0	0.03
Jan	22	0	0.15	0	0	0	0	0	0	0	0	0.1	0	0.08	0	0	0.1	0	0.01
Jan	23	0	0	0.03	0	0	0	0	0.29	0	0.01	0.39	0.06	0.45	0	0	0	0.01	0.12
Jan	24	0	0.08	0.02	0	0.01	0.1	0	0.22	0.02	0.38	0.02	0.02	0	0	0	0.04	0.08	0.02
Jan	25	0.45	0	0	0	0.01	0.02	0.01	0.07	0	0	0	0.11	0	0	0	0.18	0	0
Jan	26	0	0	0	0.05	0	0	0	0	0	0.13	0	0	0	0	0	0	0	0
Jan	27	0	0	0	0	0	0	0.04	0	0	0.1	0.02	0	0	0	0.05	0	0.09	0
Jan	28	0	0	0.14	0	0	0	0	0	0	0	0.32	0	0.01	0	0.1	0.03	0	0.04
Jan	29	0	0	0.05	0.15	0.23	0	0.42	0	0	0.01	0.02	0	0	0.68	0	0.05	0	0
Jan	30	0	0.06	0	0	0.03	0	0	0.05	0	0.01	0	0	0	0.22	0	0	0	0
Jan	31	0.03	0	0	0	0	0.14	0	0.21	0.03	0	0	0	0	0.1	0	0	0	0.03
Feb	32	0.14	0.06	0	0	0	0	0	0.03	0.21	0	0	0	0	0.33	0	0.06	0.05	0
Feb	33	0	0	0.05	0.01	0	0	0	0	0.16	0	0	0	0.12	0.33	0.59	0	0	0
Feb	34	0	0.08	0.01	0.4	0	0	0	0	0	0	0	0	0.25	0	0.03	0	1.27	0
Feb	35	0	0	0	0	0	0.06	0.24	0.06	0	0	0	0	0	0	0	0	0	0
Feb	36	0	0	0	0	0	0.47	0	0.07	0.05	0	0	0	0	0	0	0	0	0
Feb	37	0	0	0	0	0.06	0.33	0	0	0.12	0	0	0	0	0	0	0	0	0
Feb	38	0.07	0.01	0	0	0	0.08	0	0.06	0.07	0.13	0	0	0	0.09	0	0.03	0	0
Feb	39	0.06	0	0	0	0	0	0	0.06	0.01	0.05	0	0	0	0.13	0	0	0	0
Feb	40	0.05	0	0	0	0	0	0	0.03	0	0.09	0	0.02	0	0	0	0	0	0
Feb	41	0.09	0	0	0	0	0	0	0	0	0.01	0	0	0.24	0	0.19	0.08	0	0
Feb	42	0	0	0	0.04	0	0	0	0.04	0	0	0	0	0.2	0.01	0.01	0	0.05	0
Feb	43	0	0	0	0	0	0	0	0.06	0	0.1	0	0	0.04	0	0	0	0	0
Feb	44	0	0	0	0	0	0.01	0	0	0.05	0.47	0.09	0	0.02	0	0.04	0	0	0
Feb	45	0	0	0.17	0	0	0.01	0.4	0.22	0.03	0.03	0.45	0.22	0.11	0	0.11	0	0.14	0
Feb	46	0	0	0	0.15	0	0.02	0.33	0.02	0	0.09	0	0	0.11	0	0	0.16	0.28	0
Feb	47	0	0	0	0	0	0	0	0.23	0	0.02	0	0	0	0	0	0	0	0.14
Feb	48	0	0	0	0.02	0	0	0	0	0.02	0	0.63	0	0	0	0	0	0	0.17
Feb	49	0	0	0	0.07	0	0.05	0	0	0	0	0.72	0.15	0	0	0	0	0	0.21
Feb	50	0	0	0.1	0	0	0.06	0	0.01	0	0	0	0	0	0.12	0	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Feb	51	0	0	0	0	0	0	0	0.65	0.02	0	0	0	0	0.02	0	0.04	0.01	0
Feb	52	0.06	0	0	0	0.05	0.05	0.01	0	0.03	0	0	0	0.06	0.01	0	0	0.06	0
Feb	53	0	0	0	0.03	0.06	0.16	0	0.27	0.09	0	0	0	0	0.01	0	0.1	0.2	0
Feb	54	0	0.54	0	0.03	0.05	0.12	0	0.06	0	0	0.11	0.65	0	0	0	0.22	0	0.01
Feb	55	0	0.04	0	0	0	0	0.07	0	0	0	0.25	0	0.02	0.14	0	0	0	0.02
Feb	56	0	0	0	0	0.15	0	0.05	0	0	0	0.38	0	0.02	0.01	0	0.02	0	1.21
Feb	57	0	0	0	0.16	0.08	0.07	0.28	0	0.11	0	0.01	0.02	0	0	0.01	0.06	0.02	1.25
Feb	58	0	0	0	0.34	0	0	0.25	0	0.1	0	0	0	0	0	0.28	0.1	0	0.8
Feb	59	0	0	0	0	0	0	0.05	0	0.06	0	0	0	0	0.12	0.03	0	0.1	0.12
Mar	60	0	0	0	0	0.11	0	0	0	0.16	0	0.1	0	0	0	0	0.46	0	0.71
Mar	61	0	0.04	0	0.15	0.07	0	0	0	0.02	0	0	0	0	0	0	0.62	0	0.03
Mar	62	0	0.12	0	0	0.83	0	0	0.06	0.38	0	0	0	0.34	0	0.11	0.06	0.33	0
Mar	63	0	0.04	0	0.1	0.23	0	0	0	0.01	0	0	0	0	0	0.21	0.1	0	0.2
Mar	64	0	0	0.9	0.33	0	0.16	0	0.18	0	0	0.09	0.08	0.02	0.01	0.06	0.42	0.01	0.03
Mar	65	0	0.03	0.21	0.12	0	0	0	0	0	0.37	0.04	0.32	0	0.13	0	0.1	0	0.09
Mar	66	0	0.1	0.23	0.3	0	0	0	0	0	0.03	0	0.04	0	0.02	0	0.03	0	0.13
Mar	67	0	0.13	0	0.22	0	0	0.18	0.21	0	0	0	0	0	0	0	0	0	0
Mar	68	0	0	0	0	0	0.13	0.05	0.12	0	0	0	0.7	0.05	0	0	0	0.06	0
Mar	69	0	0.05	0	0.23	0	0	0	0	0	0	0	0.11	0.05	0	0	0	0	0.03
Mar	70	0	0	0	0	0.32	0	0	1.23	0	0	0	0	0.11	0	0	0	0	0
Mar	71	0	0.13	0	0.04	0.01	0	0	2.67	0	0	0.82	0.13	0.14	0.09	0.39	0.01	0	0
Mar	72	0	0	0	0	0	0	0	0.68	0.01	0	0	0.33	0	0	0.31	0.7	0.17	0
Mar	73	0	0	0	0	0	0	0	0	1.03	0.21	0	0	0	0	0	0.01	0.05	0
Mar	74	0	0.01	0	0	0	0.01	0	0	0	0.04	0	0	0	0	0	0	0	0
Mar	75	0	0.02	0.02	0.03	0	0.07	0.07	0	0.02	0.37	0	0	0.14	0	0.03	0.22	0	0
Mar	76	0	0.09	0.03	0	0	0.02	0.07	0.03	0.32	0.17	0	0	0	0.04	0.22	0.12	0	0.01
Mar	77	0	0	0.09	0.05	0	0.61	0.07	0.03	0	0.06	0	0.37	0	0	0	0.54	0.15	0.07
Mar	78	0	0.31	0.16	0.08	0	0.07	0	0	0	0	0	0.21	0.12	0.07	0.02	0	0	0
Mar	79	0	0.45	0.11	0	0	0.03	0.6	0	0.11	0	0	0.05	0	0.05	0.01	0	0	0
Mar	80	0	0	0.01	0	0	0	1.57	0	0	0.14	0.5	0.02	0.22	0	0	0.04	0	0
Mar	81	0	0	0	0	0.2	0	0.02	0	0	0.32	0.23	0.02	0	0.05	0.13	0	0	0
Mar	82	0.05	0	0	0	0.01	0	0.02	0	0	0.17	0.08	0	0	0.24	0	0.02	0	0.02
Mar	83	0	0.16	0.09	0	0	0	0.29	0	0	0.09	0	0	0	0.02	0	0.53	0.21	0
Mar	84	0	0	0.37	0	0	0.02	0.34	0	0	0	0	0	0	0	0	0.02	0	0
Mar	85	0	0	0.56	0.03	0.02	0	0	0.08	0	0	0	0	0	0.19	0.06	0	0	0
Mar	86	0	0	0.03	0	0	0	0.84	0	0.07	0	0	0	0	0.76	0.29	0	0.39	0
Mar	87	0	0	0.2	0.4	0.05	0	0.03	0	0	0	0	0	0.03	0.44	0.38	0	0.43	0.32
Mar	88	0	0	0	0.68	0.04	0	0.01	0	0.01	0	0	0	0.18	0.37	0.01	0	0.22	0.29
Mar	89	0	0.8	0.1	0	0	0	0.22	0	0	0	0	0	0.27	0	0	0	0	0.57
Mar	90	0.13	0	0	0	0.67	0	0	0.17	0	0	0	0	0.12	0	0	0	0	0
Apr	91	0	0	0.34	0	0	0	0.09	0	0.09	0	0	0	0	0	0	0	0	0
Apr	92	0	0.24	0	0	0	0.06	0.1	0	0.19	0	0	0	0	0.04	0	0	0	0
Apr	93	0.32	0	0	0.8	0.21	1.74	0	0	0.25	0	0	0.01	0	0	0	0.01	0	0
Apr	94	0.1	0	0.67	0.34	0.45	0.67	0	0	0.27	0	0	0	0	0.8	0.07	0	0.22	0.02
Apr	95	0	0.05	0.09	0	0	0.22	0	0.05	0.02	0.11	0	0	0	0	0	0	2.23	0.18
Apr	96	0	0	0.01	0	0.07	0	0	0.06	0.37	0	0	0	0.5	0	0.11	0	0.77	0.05
Apr	97	0	0.23	0	0	0	0	0	0	0.03	0	0.1	0	1.05	0.02	0.01	0.03	0.02	0.05
Apr	98	0	0.29	0	0	0	0	0	0	0.15	0	0.19	0	0	0.15	0	0	0	0.02
Apr	99	0	0	0	0	0	0	0.14	0	0.52	0.12	0.56	0	0	0	0.13	0	0.06	0.02
Apr	100	0	0	0.03	0	0	0.05	0	0	0	0.3	0	0	0.51	0	0.22	0	0.18	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Apr	101	0	0	0.38	0	0	0.01	0	0	0	0	0.59	0.01	0	0	0.41	0.84	0.08	0
Apr	102	0	0.25	0.33	0.34	0.3	0	0.31	0	0	0	0.62	0.36	0.12	0	0	0.3	0	0.32
Apr	103	0	0	0.62	0.24	0	0.33	0	0	0	0.17	0.03	0.01	0.18	0	0	0.46	0	0
Apr	104	0	0	0	0	0	0.12	0	0	0	0.04	0	0	0.06	0.23	0.08	0.05	0	0
Apr	105	0	0	0.12	0	0	0	0	0	0	0	0	0	0	0.21	0.52	0	0.08	0.2
Apr	106	0	0.23	0.03	0	0	0	0	0	0.21	0.12	0	0	0.01	0	0.09	0	0	0
Apr	107	0	0	0	0	0	0.82	0	0	0.12	0	0	0.03	0	0	0.15	0.01	0	0.18
Apr	108	0	0	0	0	0	1.65	0	0	0.1	0	0.04	0	0.02	0	0.46	0.22	0	0.03
Apr	109	0	0.23	0	0	0.02	0	0	0	0	0	0.34	0.31	0.21	0	0	0.01	0.02	0.1
Apr	110	0	0.67	0	0	0.37	0.13	0.46	0.03	0	0	0	2.31	0.05	0	0.36	0	0.02	0
Apr	111	0	0	0	0	0	0	0	0.01	0	0	0	0.9	0	0	0.24	0.08	0.47	0
Apr	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0	0.05	0.27	0
Apr	113	0	0	0	0	0.06	0	0	0.04	0	0	0	0	0.46	0	0.22	0	0	0
Apr	114	0	0	0	0	0.02	0.26	0	0	0.03	0.47	0	0.21	0	0.04	0	0.04	0	0
Apr	115	0.2	0.07	0.01	0.13	0	0.32	0	0.04	0.06	0.25	0	0.15	0.22	0.59	0.21	0.08	0	0
Apr	116	0	0.05	0	1.14	0.07	0.34	0	0.4	0.65	0.09	0.5	0	0	2.11	0.13	0.05	0.2	0
Apr	117	0	0	0	2.47	0	0.16	0	0.37	1.39	1	0.56	0	0.02	0.11	0	0	0	0
Apr	118	0	0	0.06	1.13	0	0.01	0	0	0.95	0	0.11	0	0	0.05	0.2	0.15	0.2	0
Apr	119	0	0.11	0.28	0	0	0.01	0	0	0.3	0.59	0.09	0.01	0	0	0.14	0	0.16	0
Apr	120	0	0	0.06	0	0	0	0	0	0.28	0.04	0.18	0	0.81	0	0.38	0.23	0.01	0
May	121	0	0	0.31	0.03	0	0	0.01	0	0	0	0	0	0	0	0.42	0.02	0.72	0.06
May	122	0.3	0	0	0	0	0	0.22	0.15	0	0	0	0.19	0	0.21	0.02	0.34	1.16	0
May	123	0.2	0	0	0	0	0	0.32	0.82	0.4	0.04	0.3	0	0	0.07	0	0.09	0	0
May	124	0.74	0	0	0	0.07	0	0	0	0.3	0.57	0	0	0	0	0	0.02	0	0
May	125	0	0.01	0.02	0.09	0	0.22	0	0	0.59	0.01	0	0	0.29	0	0	0	0.03	0
May	126	0	0	1.49	0.1	0	0	0	0	0	0	0	0	1.04	0.15	0.26	0	0	0
May	127	0	0	0.93	0.03	0	0.24	0	0.07	0	0.25	0.04	0	0.04	0	0	0	0.02	0
May	128	0	0	0	0.33	0	0.41	0	0.2	0.16	0.34	0	0	1.26	0	4.06	0.16	0	0.05
May	129	0.28	0.95	0	0.04	0	0.75	0	2.15	0	0.04	0	0	0.14	0	2.59	0.81	0	0.26
May	130	0	0.51	0.13	0	0	0	0	0	0	0	0	0.16	0	0	0	0	0	0.09
May	131	0	0	0.58	0	0.41	0	0	0	0	0	0	0.68	0	0	0	0	0	0.13
May	132	0.17	0.01	0	0	0	0	0	0	0.07	0.01	0.4	0	0	0	0.31	0.05	0	0.17
May	133	0.23	0.54	0	0	0	0	0	0	0.7	0.4	0	0	0	0.36	0.86	0.03	0	0
May	134	0	2.37	0	0	0	0.04	0	0	0.05	0.2	0	0	0	0	0.07	0.02	0	0
May	135	0	3.33	0	0	0	0	0	0	0	0	1.15	0	0.11	0	0	0.01	0	0
May	136	0.26	0.97	0	0	0	0	0	0	0.08	0	0.55	0	0	0.02	0.09	0	0	0
May	137	0.59	0.09	0	0	0	0	0.6	0	0.08	0	0.35	0.04	0.09	0	0	0	0	0
May	138	0.21	0.01	0	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0.22	0
May	139	0	0.09	0.48	0	0.1	0	0.01	0.1	0	0.05	0	0	0	0	0	0.04	0	0
May	140	0	3.21	0.02	0	0	0	1.26	0.08	0	0.35	0.19	0	0	0.77	0	0	0	0.24
May	141	0	0.06	0.04	0	0	0	0.14	0.01	0	0	0	0	0	0	0.11	0	0	0.53
May	142	0.39	0	0	0.46	1.1	0.1	0	0	0	0.01	0.9	0.27	1	0	0.09	0.32	0	0.02
May	143	2.39	0	0	0	0	0.37	0.5	0	0	0.48	0.5	0.61	0.03	0	0	0.5	0	0.18
May	144	0	0.01	0	0	0	0.15	0	0	0.01	0.3	0	0	0	0.24	0.05	0.3	0	0
May	145	0	0.05	0	0.01	0	0.05	0.31	0.06	0.01	0.08	0	0	0	0	0.04	0.2	1.22	0.04
May	146	0.12	0	0.01	0.23	0.71	0	0.07	0.02	0.02	0	0.01	0.02	0.03	0	0.07	1	0.83	0
May	147	0.02	0	0	0	0	0	0.15	0	0	0.29	0.38	0	0	0	1.11	1.85	0.13	0
May	148	0.01	0.05	0	0.96	0	0	0.01	0	0	0	0.51	0	0.04	0	0.42	0.05	0	0
May	149	0.02	0	0	0	0	0	0.63	0	0.02	0.04	0.07	0	0.4	0	0	0	0	0
May	150	0	0	0.01	0	0.25	0	0.17	0	0.46	0.02	0.04	0	0.03	0	0.16	0.07	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
May	151	0.43	0	0	0	0.01	0	0	0	0.14	0.04	0	0.48	0	0	0	0.24	0	0
June	152	0.19	0.15	0	0	0	0	0.05	0.31	0	0.01	0.31	0.29	0.02	0.02	0	0	0.17	0
June	153	0.1	0.09	0	0.71	0.06	0	0	0	0.12	0	0	0.18	0.21	0.04	0.05	0	0.34	0
June	154	0.52	0.07	0.09	0	0.2	0	0	0	0.01	0	0.36	0	0.13	0	0.32	0	0.03	0.94
June	155	0.01	0.01	0	0.02	0	1.31	0	0	0	0	0.13	0.01	0	0.02	0	0	0	0.35
June	156	0	0.01	0	0.3	0	0	0	0	0	0	0.79	0.02	0.03	0.07	0.02	0.06	0	0.12
June	157	0	0.09	0	0	0.01	0.14	0	0	0	0.37	0.05	0.26	0.02	0.01	0	0.54	0	0.03
June	158	0.2	0	0.04	0.07	0	0	0.17	0	0	0.09	0.04	0.04	1.5	0	0.06	0	0	0.42
June	159	0	0.1	0.07	0.07	0	0.21	0.02	0	0	0.05	0.01	0.1	2.27	0.21	0.39	0	0	0.5
June	160	0.61	0	0.08	0.1	0	1.12	0.18	0	0	0	0.03	0	0.01	0	1	0	0	0.02
June	161	0	0.11	0	1.62	0.5	1	0.02	0	0	0	0	0	0	0	0.09	0	0	0
June	162	0	0.11	0	0.43	0.11	0	0	0	0.06	0.07	0	0	0	0	0	0	0.15	0.47
June	163	0.1	0	0.07	0.11	0	0	0	0	0.53	0	0	0.25	0	0	0	0.19	0.05	0.01
June	164	0.19	0.21	0.12	0	0	0	0	0.13	0.13	0	0	0.15	0	0	0.02	0	0.04	0.11
June	165	0.2	0.57	0	0	0.01	0.12	0	0.94	0.24	0.24	0.5	0.05	0	0	0	0	0	0.61
June	166	0.04	0.5	0	1.21	0	0	0	0.1	0	0	0	0.34	0	0	0	0.08	0.08	0.01
June	167	0.02	0.13	0.25	0.34	0	0	0	0	0	0.15	0	0.45	1.36	0.51	0	0.15	0	0.04
June	168	0.05	0.9	0.13	0.05	0	0	0	0.13	0.53	0.01	0	0.1	0.67	0	0	0.01	0.11	0.93
June	169	0	0.04	0.06	0.42	0	0	0	0.04	0	0	0.1	0.33	0.65	0	0	0.01	0	4.08
June	170	0	0	0	0.22	0	0	0.45	0	0	0.11	0	0	0.09	0	0	0.47	0.02	0.47
June	171	0.09	0	0	0.08	0	0	0	0	0	0.06	0.01	0.06	0	0	0	0	0.39	0.01
June	172	0.04	0	0.1	0	0.72	0.11	0.07	0	0.2	0.38	0.01	0	0	0.01	0.15	0	0	0
June	173	0	0.09	0	0.02	0	0	0.04	0	0.14	0.01	0	0.33	0.15	0.29	1.52	0	0.07	0
June	174	0	0.03	0	0	0	0	0	0	0.29	0	0	0	0	0	0.13	0.44	0.02	0.5
June	175	0	0	0	0.01	0	0	0	0.59	0.88	0	0	0.01	0	0	0.06	0	0.21	0.23
June	176	0	0	0	0	0.04	0	0	0	0.03	0	0	0.13	0.03	0	0	0	0	0.1
June	177	0	0.1	0	0	0.5	0	0	0	0	0	0.04	0	0	0	0	0	0	0
June	178	0	0	0	0	0.24	0.02	0	0	0	0	0	0.04	0.13	0	0	0	0	0
June	179	0	0	0	0	0	0.05	0	0.16	0	0	0.15	0	0.2	0	0.3	0	0	0
June	180	0	0	0.05	0	0	0.03	0.03	0.25	0	0	0	0.06	0.07	0	0.02	0	0.22	0
June	181	0	0.02	0.28	0	0.05	0.87	0	0.16	0	0	0.09	0.14	0.09	0	0	0	0	0
July	182	0	0	0	0	0	0	0	0.11	0	0	0	0.06	0	0	0.11	0	0.22	0.03
July	183	0.27	0.11	0	0.11	0	0	0	0	0	0	0	0.01	0.1	0	0.01	0	0.02	0
July	184	0	0	0	0	0	0	0.05	0	0.02	0	0	0.03	0	0	0.01	0	0	0.15
July	185	0	0	0.27	0.16	0	0.06	0.04	0	0	0	0	0	0.04	0.09	0.01	0.02	0	0
July	186	0	0.12	0	0	0	0	0.1	0	0	0	0	0	0.04	0	0.22	0	0	0
July	187	0	0	0	0	0	0	0.01	0.02	0	0	0.08	0.18	0	1.58	0	0.49	0	0.04
July	188	0	0	0	0	0	0.05	0.17	0	0	0	0.04	0	1.17	0.24	0.5	0	0.4	0
July	189	0	0	0	0	0	0	0.04	0.01	0	0	0	0.03	0.04	0.01	0.11	0	0.02	0.17
July	190	0	0.35	0	0.38	0	0.25	0.02	0.14	0	0	0.69	0.02	0.05	0	0	0	0	0.1
July	191	0	0.05	0	0.04	0	0.04	0.03	0	0	0.03	0.41	0.09	0.04	0.01	0.23	0	0	0.43
July	192	0.25	0	0	0.05	0	0.47	0.29	0.07	0.12	0.13	0	0.02	0.12	0	0	0.13	0.03	0
July	193	0.31	0	0	0.42	0	0	0.02	0.05	0	0	0	0.03	0.45	0.21	0	0	1.99	0.27
July	194	0.57	0.05	0	0	0	0	0	0.01	0.12	0	0	0.58	0.16	0.51	0.07	0.05	0.04	0
July	195	0	0	0	0	0.08	0	0	0	1.43	0.1	0	0.2	0.09	0	0.46	0.48	0	0
July	196	0.2	0	0	0.67	0	0	0	0	0.21	0.02	0	0	0	0.52	1.49	0	0	0.11
July	197	0.1	0.03	0	0.07	0.02	0	0	0	0.29	0.02	0.12	0.07	0.12	0	0.67	0	0	0
July	198	0.02	0	0.58	0	0.03	0	0	0	0.02	0.11	0.08	0	0.12	0	0	0	0	0
July	199	0.24	0.12	0	0	0	0.05	0.08	0	0.02	0	0	0	0.1	0	0	0.01	0	0
July	200	0	0	0	0	0.04	0.04	0	0	0	0	0	0	0	0.01	0.05	0	0.79	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
July	201	0	0	0.03	0.02	0.13	0	0	0.5	0	1.09	0	0.01	0	0	0	0	0.56	0
July	202	0	0	0	0	0	0.3	0	0	0	1.27	0	0	2.11	0	0.53	0.04	0.8	0.01
July	203	0.26	0.02	0	0	0	0.08	0	0	0	0	0	0.2	0.02	0	0.53	0	0	0
July	204	0.01	0.97	0.02	0.38	0	0	0	0	0	0	0	0.06	0.17	0	0	0	0.08	0.77
July	205	0	0.1	0.02	0.05	0.01	0.08	0.01	0	0	0	0.06	0	0.2	0	0	0	2.02	0
July	206	1.67	0.9	0	0.03	0.22	0.93	0	0	0	0	0	0.08	0.01	0.07	0.4	0	0	0.15
July	207	0.02	0.49	0	0	0	0.2	0	0	0	0	0.13	0.07	0.15	0	0	0.62	0	0
July	208	0.48	0	0	0	0.03	0.02	0.14	0	0	0	0.02	0.18	0	0	0	0	0.08	0
July	209	0	0	0	0	0.08	0	0.04	0	0.7	0	0	0	0	0	0	0.13	0.22	0.06
July	210	0	0	0.61	0	0	0	0	0	0	0.01	0	0	0	0	0.01	0	0.21	0.98
July	211	0	0	0.11	0	0.1	0	0	0	0.05	0	0	0.25	0	0	0	0.02	0	0.1
July	212	0	0	0	0	0	na	0.03	0	0	0	0	0	0.36	0	0.13	0	0.81	0
Aug	213	0.2	0.02	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	1.47
Aug	214	0	0	0	0	0	0	0	0.03	0	0.07	0	0	0	0.06	0	0.07	0	0.05
Aug	215	0	0	0	0.63	0	0	0.29	0.43	0	0.02	0	0	0	0	0	0	0	1.27
Aug	216	0.05	0.01	1.75	0.14	0	0	0.6	0.39	0	0	0	0	0	0	0.03	0	0	0.96
Aug	217	0	0	0.62	0	0	0	0	0.12	0	0.11	0	0	0	0	0	0	0.37	0
Aug	218	0.03	0	0	0.37	0.02	0	0.17	0	0	0	0.15	0	0.01	0	0	0	0	0
Aug	219	0	0.09	0	0.03	0	0	1.23	0	0	0	0.08	0	0.5	0	0	0	0	0
Aug	220	0.32	0	0	0	0	0	0.11	0	0	0	0	0	0	0	0	0	0	0
Aug	221	0	0.76	0	0	0.11	0	0	0.12	0.01	0	0	0	0	0.01	0	0.41	0	0
Aug	222	0	0.04	0.01	0	0	0	0	0	0	0	0.03	0	0	0	0	0.43	0	0.01
Aug	223	0	0	0	0	0	0	0	0	0	0.22	0	0	0	0	0.06	0	0	0.18
Aug	224	0	0	0	0	0.03	0.13	0.05	0	0	0.02	0	0	0.13	0	0.12	0	0.01	0
Aug	225	0	0	0	0	0.02	0.17	0	0.2	0	0	0	0	0.2	0	0	0	0.45	0
Aug	226	0	0.11	0	0	0	0	0.39	0	0	0	0.03	0	0.2	0	0	0	0	0
Aug	227	0	0	0	0	0	0	0	0	0	0	0.24	0	0.13	0	0	1.6	0	0
Aug	228	0	0	0.72	0	0	0	0.33	0	0.44	0	0	0	0	0	0	0.06	0.07	0.15
Aug	229	0.04	0.04	0.44	0.27	0	0	0	0	0.29	0	0	0.14	0	0.02	0	0	0.05	0
Aug	230	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0.03	0	0.01	0.28
Aug	231	0	0.07	0.72	0	0	0	0	0	0.05	0	0	0	0	0	0	0.18	0.09	0
Aug	232	0	0	0	0.02	0	0.06	0	0	0.37	0	0	0	0.99	0	0	0	0	1.15
Aug	233	0.2	0.02	0.1	0.01	0	0.01	0	0	0	0.01	0	0	0	0	0	0	0	0.02
Aug	234	0	0.05	0.47	0.11	0	0.02	0.37	0	0	0	0.04	0.25	0	0	0	0	0	0.02
Aug	235	0	0	0	0	0	0	0	0.19	0	0	0.05	0	0	0	0	0	0	0
Aug	236	0	0.13	0	0	0	0.03	0	0	0.03	0	0	0.69	0	0	0	0	0.02	0
Aug	237	0	0	0	0	0	0	0.25	0	0.07	0	0	0.08	0	0	0	0	0.14	0
Aug	238	0	0	0	0	0	0.11	0.52	0	0	0	0	0	0	0	0.52	0	0.7	0
Aug	239	0	0	0	0	0	0	0.18	0	0	0	0	0.11	0.04	0	0	0	0.09	0
Aug	240	0	0.12	0	0	0	0	0	0	0.32	0	0	0	0	0	0.03	0	0	0
Aug	241	0.36	0.16	0	0	0.11	0	0	0	0	0	0	0	0	0.07	0	1.23	0	0
Aug	242	0.03	0	0	0	0	0.01	0	0	0	0	0	0	0.17	0.12	0	0.06	0	0
Aug	243	0.01	0.89	0	0	0	0	0	0	0.05	0	0	0	0	0.33	0	0	0	0
Sept	244	0	0	0	0	0	0.21	0	0	0	0	0	0	0	0	0	0	0.01	0
Sept	245	0	0	0	0	0	0.32	0	0	0	0	0	0.39	0.06	0	0	0.24	0	0
Sept	246	0.04	0	0	0	0.2	0.12	0	0	0	0	0	0	0	0	0	0	0	0
Sept	247	0	0	0.2	0	0	0.02	0.44	0	0	0	0	0	0	0	0	0	0	0
Sept	248	0.57	0.22	0	0	0	0.47	0.19	0	0	0.18	0	0	0.63	0	0.11	0.01	0	0
Sept	249	0.62	0	0	0	0	0.42	0	0	0	0.28	0	0.02	0	0	0.04	0.65	0	0
Sept	250	0	0	0	0	0	0	0.27	0	0.01	0	0.1	0.04	0	0	0.15	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Sept	251	0	0	0.02	0.03	0.02	0	0	0	0.25	0	0.04	0.42	0	0	0	0	0.01	0
Sept	252	0	0	0.01	0	0	0	0.03	0	0.11	0	0	0	0	0	0	0	0	0
Sept	253	0	0.1	0.09	0	0	0.91	0	0	0.28	0.01	0	0	0	0	0	0	0	0
Sept	254	0	0.25	0.01	0.12	0	0.05	0.3	0	0	0	0	0	0	0	0.01	0	0.01	0
Sept	255	0	0	0	0	0.22	0	0	0.1	0	0	0.14	0	0.02	0	0.09	0	0	0.05
Sept	256	0	0.23	0.01	0	0	0.02	0	0.19	0	0	0	0	0.13	0.01	0	0	0	1.7
Sept	257	0	0.83	0	0.01	0	0.05	0	0	0	0	0.08	0	0	0.06	0	0.02	0	0.04
Sept	258	0	0.02	0.02	0.44	0	0.01	0	0	0	0	0.07	0	0	0.46	0.02	0.25	0	0
Sept	259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0
Sept	260	0	0	0	0	0	0.01	0.14	0	0	0.44	0.08	0	0.11	0	0	0.05	0	0
Sept	261	0	0	0	0	0	0.02	0	0	0	0.02	0	0	0.08	0.01	0.02	0.72	0	0
Sept	262	0	0	0.31	0	0.27	0.46	0	0.02	0	0.1	0	0	0.46	0.01	0.61	0.07	0.14	0.02
Sept	263	0	0	0.01	0	0	0	0	0.36	0.96	0.21	0	0	0	0	0.4	0.02	0	0.26
Sept	264	0	0	0	0	0	0.15	0	0	0.59	0	0	0	0	0.35	0.17	0	0	0.49
Sept	265	0	0	0.14	0	0.36	0	0	0	0	0	0.06	0.01	0	0	0	0.01	0.39	0
Sept	266	0	0	0	0	0.2	0	0	0	0	0	0.04	0	0	0	0.01	0	0.09	0
Sept	267	0	0	0	0.08	0.19	0.01	0	0	0	0	0	0	0	0	0.27	0	0	0
Sept	268	0	0	0	0.1	0.68	1.12	0	0	0	0	0	0	0	0	0	0.76	0	0.01
Sept	269	0.16	0	0	0	0	0	0	0	0	0	0	0.1	0.02	0	0	0.05	0	0
Sept	270	0	0.24	0	0	0.18	0.01	0	0	0	0.01	0	0	0	0	0	0	0.01	0
Sept	271	0	0.48	0	0.19	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Sept	272	0	0.09	0	0	0.04	0	0	1.87	0	0	0	0	0	0	0	0	0	0
Sept	273	0.12	0.17	0	0	0.05	0	0	0.25	0	0	0	0	0	0	0.01	0	0	0
Oct	274	0	0.47	0.25	0	0	0.07	0	0	0.22	0	0	0	0.05	0.1	0	0	0	0
Oct	275	0	0	0.16	0	0.03	0.9	0	0	0.04	0	0	0	0	0.03	0	0	0	0.49
Oct	276	0	0	0.48	0	0.26	0.41	0	0	0	0	0.19	0	0	0.14	0	0	0.01	0.02
Oct	277	0	0	0	0	0.01	0	0	0	0	0	0.31	0	0	0.35	1.46	0	0	1.44
Oct	278	0.34	0.05	0	0	0	0.2	0	0	0.03	0	0.06	0	0	0	1.68	0	0	3.34
Oct	279	0	0.12	0	0.32	0	0	0	0	0	0.22	0	0	0	5.14	0.07	0	0	0.36
Oct	280	0	0	0	0	0	0	0	0	0.02	0.02	0	0.19	0.02	1.31	0	0	0	0
Oct	281	0.06	1.33	0.03	0	0.08	0	0	0	0	0	0	0.57	0.36	0	0	0	0.54	0
Oct	282	0	3.51	0	0	0.03	0.11	0.39	0	0	0	0	0	0	0	0	0	0.01	0
Oct	283	0	1.3	0.02	0	0	0.31	0.01	0	0	0	0	0.12	0	0	0	0	0	0
Oct	284	0	0	0.32	0	0.1	0.17	0	0	0	0.18	0	0	0	0	0	0	0.03	0.24
Oct	285	0.12	0	0.08	0	0.01	0.01	0	0	0	0	0	0	0.01	0	0	0	0.39	0
Oct	286	0	0	0	0	0.11	0	0	0	0	0.07	0	0	0.05	0	0	0	0.16	0
Oct	287	0.18	0	0.16	0	0	0	0	0	0	0.01	0.02	0	0.83	0	0	0	0	0
Oct	288	0	0	0.06	0	0	0	0	0	0.1	0	0	0.01	0.1	0.24	0	0	0	0
Oct	289	0	0	0	0	0	0	0.13	0.07	0	0	0	0.19	0.47	0.85	0	0.57	0	0.66
Oct	290	0	0	0	0.1	0	0	0	0.07	0	0.55	0.01	0	0	0.39	0	0.65	0	1.99
Oct	291	0	0	0	0	0	0	0.42	1.08	0	0	0.16	0	0.04	0.59	0.1	0	0	0.01
Oct	292	0	0	0.43	0.41	0	0	0.12	0	0	0.09	0	0	0	0	0.43	0.11	0	0
Oct	293	0.23	0	0	0	0	0.03	0	0.01	0	0	0	0	0.12	0	0	0.73	0.02	0
Oct	294	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	0	0
Oct	295	0.05	0	0	0	0.21	0.45	0	0	0	0	0	0	0	0.12	1.95	0	0	0
Oct	296	0	0	0	0	0.1	0.24	0	0	0	0.18	0	0	0	0	0.46	0	0	0
Oct	297	0.25	0	0.09	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0.34	0
Oct	298	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0.06	0
Oct	299	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0.07	3.43	0	0
Oct	300	0	0	0	0	0	0	0	0	0.23	0	0	0	0	0	0.27	0	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Oct	301	0	0.15	0	0.02	0	0	0	0.22	0.82	0	0.9	0	0.16	0.04	0	0	0	0.13
Oct	302	0	0.74	0	0	0	0	0	0	0.89	0	0.16	0	0.17	0	0.26	0.01	0	0.56
Oct	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14	0	0	0.03
Oct	304	0	0	0	0	0	0	0	0	0.04	0	0	0	0	0	0.05	0	0.19	0
Nov	305	0	0	0	0.05	0	0	0	0	0.23	0	0.08	0.16	0	0	0.26	0	0.06	0
Nov	306	0	0.17	0	0	0.04	0	0.01	0	0	0.43	0.04	0.05	0	0.36	0.01	0	0	0
Nov	307	0	0.1	0	0	0	0	0.26	0	0.02	0	0	0.65	0	0.2	0	0	0	0.23
Nov	308	0	0	0	0	0	0	0	0.04	0.09	0	0	0.78	0.5	0	0	0	0.62	0.11
Nov	309	0	0	0	0	0	0	0	0	0.42	0.28	0.26	0.48	0.23	0	0	0.25	0.17	0
Nov	310	0	0	0	0	0	0.57	0	0	0	0.19	0.25	0	0	0	0.01	0	0	0.14
Nov	311	0	0	0.08	0	0	0.8	0	0.01	0.07	0	0	0.05	0.01	0	0.29	0.42	0	0.08
Nov	312	0	0	0.34	0	0.18	0.11	0	0.35	0	0	0	0	0.05	0.27	0	0.04	0.07	0
Nov	313	0	0.01	0	0.12	0.05	0.02	0	0	0	0	0.08	0.07	0	0	0.25	0.02	0.14	0.26
Nov	314	0	0	0	0.88	0.17	0.06	0	0.16	0.01	0	0	0.06	0	0	0.11	0	0	0.09
Nov	315	0	0.18	0	0	0.03	0.09	0	0	0	0	0	0.01	0	0	0	0	0	0
Nov	316	0	0.15	0.6	0	0	0.17	0	0.16	0	0	0	0	0	0	0	0	0	0
Nov	317	0	0.11	0.02	0	0.53	0	0	0.04	0	0	0	0.12	0.01	0.35	0	0	0.57	0
Nov	318	0	0.02	0	0	0	0	0.17	0.01	0.06	0	0.24	0.03	0.12	0	0.07	0	0.52	0.02
Nov	319	0.08	0	0	0	0	0	0.37	0.08	0.3	0	0	0	0	0	0	0.01	0	0
Nov	320	0	0	0	0	0	0	0	0.17	0.06	0	0	0	0	0	0	0.16	0	0
Nov	321	0	0	0	0	0	0.05	0	0	0.16	0	0	0	0	0.33	0	0.02	0	0
Nov	322	0.35	0	0	0	0.23	0	0.01	0	0	0	0.01	0	0.25	0.46	0	0	0	0
Nov	323	0.15	0	0	0	0.04	0.27	0	0.12	0	0	0	0	0	0	0	0	0	0.02
Nov	324	0	0.27	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0
Nov	325	0	0	0.1	0	0.08	0	0	0	0	0.08	0.15	0	0	0.25	0	0	0.01	0
Nov	326	0	0	0.23	0	0	0	0	0	0.03	0	0.3	0	0	0	0	0.01	0.17	0.04
Nov	327	0.11	0	0.01	0	0	0	0.01	0	0	0	0.27	0	0.14	0	0	0.13	0	0
Nov	328	0.01	0	0.02	0	0.02	0	0	0	0.06	0	0	0.54	0	0	0	0	0	0
Nov	329	0.15	0	0.01	0	0.07	0	0	0.1	0	0	0	0.1	0.25	0	0	0.01	0.18	0
Nov	330	0	0	0.69	0	0	0	0	0	0.2	0	0	0	1.22	0.03	0.67	0.02	0	0
Nov	331	0	0	0	0.73	0	0	0	0.3	0.9	0	0.09	0	0.03	0.09	0.07	0	0	0
Nov	332	0	0	0.12	0	0	0	0	0	0	0	0.2	0	0	0.04	0	0	0	0
Nov	333	0	0	0.08	0	0	0	0	0.05	0	0	0.59	0.01	0	0	0.02	0.26	0	0
Nov	334	0.08	0	0	0	0.21	0.01	0	0.15	0	0.05	0.15	0.14	0	0	0	0.01	0	0
Dec	335	0.08	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec	336	0.05	0.3	0	0.55	0	0	0.03	0	0	0	0.07	0.08	0.14	0	0.07	0.6	0.01	0
Dec	337	0	0	0	0.09	0	0	0	0	0	0	0.1	0.02	0.3	0	0	0	0	0
Dec	338	0	0	0.42	0	0.1	0	0	0	0	0	0.01	0.35	0	0	0.09	0	0.02	0
Dec	339	0	0	0.1	0	0	0	0	0	0.25	0	0	0.01	0.72	0.04	0	0.01	0	0
Dec	340	0	0.22	0	0.02	0	0.01	0	0	0.29	0	0	0	0	0	0	0	0	0
Dec	341	0	0.08	0.08	0	0	0.02	0.03	0	0.15	0	0.01	0	0	0	0	0	0	0
Dec	342	0	0.01	0	0	0	0	0.04	0.11	0	0	0	0	0	0	0.09	0	0	0
Dec	343	0	0	0	0	0.01	0.07	0	0	0.17	0	0.02	0	0	0	0	0	0	0
Dec	344	0	0	0	0	0.05	0	0.23	0.02	0.2	0	0	0	0	0	0	0	0.32	0
Dec	345	0	0	0.02	0	0	0.01	0.01	0.09	0.03	0	0	0	0	0	0	0.18	0	0
Dec	346	0	0	0.08	0.02	0.12	0	0.05	0.09	0.44	0.11	0	0	0	0	0	0	0	0
Dec	347	0.06	0	0.03	0	0	0	0.23	0.03	0.49	0	0.01	0.3	0.01	0	0.11	0	0	0
Dec	348	0.02	0.1	0	0	0	0	0	0.05	0.3	0.47	0	0.44	0	0.14	0	0.9	0	0
Dec	349	0	0	0.01	0.01	0	0	0	0.4	0.01	0.16	0	0	0	0	0	0	0	0
Dec	350	0.16	0	0	0	0.19	0	0	0.07	0.11	0	0	0.14	0.23	0	0	0.16	0	0

		Appendix D. Daily Precipitation (in.) for Lead, SD																	
		sd483404		(1909-1999)															
		Source - SDSU Climate Center (Bender, 2000b)										na = not available							
Day of																			
Month	Yr	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Dec	351	0.05	0	0.02	0.02	0.51	0	0	0	0.04	0	0	0.11	0.7	0	0.01	0.57	0	0
Dec	352	0	0.15	0	0.11	0.35	0	0	0	0	0.07	0	0	0	0	0	0.09	0	0.15
Dec	353	0	0	0.02	0	0.75	0	0.04	0	0	0.07	0	0.01	0.32	0.1	0	0.04	0.18	0.09
Dec	354	0.02	0	0.08	0	0.22	0	0	0	0.2	0.07	0.01	0	0.03	0	0	0	0	0.06
Dec	355	0	0	0	0	0	0	0	0	0.05	0.04	0	0	0.17	0	0.17	0.31	0	0
Dec	356	0	0	0	0.07	0	0	0	0	0	0	0	0	0.15	0	0	0.12	0	0
Dec	357	0	0	0	0	0.12	0	0.26	0.11	0	0.05	0	0	0.57	0	0	0.12	0	0
Dec	358	0	0.36	0	0.22	0.53	0	0	0.01	0.42	0.05	0	0.16	0.31	0	0	0.02	0.02	0
Dec	359	0.07	0.01	0	0.06	0.1	0	0	0	0	0.16	0	0.08	0.02	0	0	0.14	0	0.1
Dec	360	0.1	0	0.01	0	0	0	0	0.01	0	0	0	0.05	0	0	0	0	0	0
Dec	361	0.06	0.15	0.04	0	0.12	0	0	0.07	0	0	0	0	0.1	0	0	0	0.08	0
Dec	362	0	0.05	0.04	0	0	0	0.05	0.11	0	0.03	0	0	0	0	0	0	0.34	0.15
Dec	363	0	0.2	0	0	0	0	0	0	0.01	0.02	0	0.06	0.02	0	0	0	0.22	0.07
Dec	364	0.01	0.07	0	0	0	0	0.09	0	0.02	0	0	0	0.01	0.03	0	0	0.56	0.23
Dec	365	0.05	0.04	0.01	0	0	0.01	0.01	0	0.12	0	na	0	0.1	0.05	0.35	0	0	0
29 Feb	366				0.09				0				0.04				0		

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Jan	1	0.12														
Jan	2	0.12														
Jan	3	0.06														
Jan	4	0.13														
Jan	5	0.36														
Jan	6	0.27														
Jan	7	0.05														
Jan	8	0.06														
Jan	9	0.14														
Jan	10	0.08														
Jan	11	0														
Jan	12	0														
Jan	13	0														
Jan	14	0														
Jan	15	0.18														
Jan	16	0														
Jan	17	0														
Jan	18	0														
Jan	19	0														
Jan	20	0														
Jan	21	0														
Jan	22	0														
Jan	23	0														
Jan	24	0.13														
Jan	25	0														
Jan	26	0.04														
Jan	27	0.01														
Jan	28	0														
Jan	29	0														
Jan	30	0														
Jan	31	0														
Feb	32	0														
Feb	33	0														
Feb	34	0.02														
Feb	35	0														
Feb	36	0														
Feb	37	0														
Feb	38	0														
Feb	39	0														
Feb	40	0														
Feb	41	0.25														
Feb	42	0														
Feb	43	0														
Feb	44	0														
Feb	45	0														
Feb	46	0.24														
Feb	47	0.01														
Feb	48	0.02														
Feb	49	0.11														
Feb	50	0														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Feb	51	0.19														
Feb	52	0														
Feb	53	0.04														
Feb	54	0														
Feb	55	0														
Feb	56	0														
Feb	57	0.05														
Feb	58	0.17														
Feb	59	0														
Mar	60	0.1														
Mar	61	0.12														
Mar	62	0														
Mar	63	0														
Mar	64	0.37														
Mar	65	0														
Mar	66	0														
Mar	67	0														
Mar	68	0														
Mar	69	0.37														
Mar	70	0														
Mar	71	0.07														
Mar	72	0														
Mar	73	0														
Mar	74	0														
Mar	75	0														
Mar	76	0.02														
Mar	77	0														
Mar	78	0														
Mar	79	0														
Mar	80	0														
Mar	81	0.01														
Mar	82	0														
Mar	83	0														
Mar	84	0														
Mar	85	0														
Mar	86	0.36														
Mar	87	0.16														
Mar	88	0														
Mar	89	0														
Mar	90	0														
Apr	91	1.01														
Apr	92	0.29														
Apr	93	0.39														
Apr	94	0														
Apr	95	0.07														
Apr	96	0														
Apr	97	0														
Apr	98	0.02														
Apr	99	0														
Apr	100	1.02														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Apr	101	0.19														
Apr	102	0														
Apr	103	0														
Apr	104	0.3														
Apr	105	0.04														
Apr	106	0														
Apr	107	0														
Apr	108	0														
Apr	109	0														
Apr	110	0														
Apr	111	0.59														
Apr	112	0.4														
Apr	113	0														
Apr	114	0														
Apr	115	0.1														
Apr	116	0.03														
Apr	117	0														
Apr	118	0														
Apr	119	0														
Apr	120	0														
May	121	0														
May	122	0														
May	123	0														
May	124	0.46														
May	125	0.06														
May	126	0														
May	127	0														
May	128	0														
May	129	0.06														
May	130	0.39														
May	131	0														
May	132	0														
May	133	0.19														
May	134	0.34														
May	135	0.01														
May	136	0.13														
May	137	0														
May	138	0														
May	139	0														
May	140	0														
May	141	0.11														
May	142	0.22														
May	143	0														
May	144	0														
May	145	0														
May	146	1.73														
May	147	0														
May	148	0														
May	149	0														
May	150	0.01														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
May	151	0.08														
June	152	0.02														
June	153	0.02														
June	154	0.8														
June	155	0														
June	156	0.17														
June	157	1.38														
June	158	0														
June	159	0.53														
June	160	0.2														
June	161	1.44														
June	162	0.24														
June	163	0.77														
June	164	0.06														
June	165	0.64														
June	166	0.16														
June	167	0														
June	168	0														
June	169	0.01														
June	170	0														
June	171	0														
June	172	0														
June	173	0														
June	174	0														
June	175	0														
June	176	0														
June	177	0														
June	178	0														
June	179	0.93														
June	180	0														
June	181	0.11														
July	182	0.01														
July	183	0														
July	184	0														
July	185	0.01														
July	186	0.03														
July	187	0														
July	188	0														
July	189	0														
July	190	0														
July	191	0														
July	192	0														
July	193	0														
July	194	0														
July	195	0														
July	196	0														
July	197	0.09														
July	198	0.56														
July	199	0.29														
July	200	0														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
July	201	0.03														
July	202	0														
July	203	0														
July	204	0														
July	205	0														
July	206	0														
July	207	0														
July	208	0														
July	209	0														
July	210	0														
July	211	0.06														
July	212	0.71														
Aug	213	0.07														
Aug	214	0														
Aug	215	0														
Aug	216	0														
Aug	217	0.09														
Aug	218	0.94														
Aug	219	0.4														
Aug	220	0														
Aug	221	0														
Aug	222	0														
Aug	223	0.14														
Aug	224	0.61														
Aug	225	0.05														
Aug	226	0.02														
Aug	227	0														
Aug	228	0														
Aug	229	0														
Aug	230	0														
Aug	231	0														
Aug	232	0														
Aug	233	0.03														
Aug	234	0														
Aug	235	0														
Aug	236	0														
Aug	237	0														
Aug	238	0														
Aug	239	0.04														
Aug	240	0.83														
Aug	241	0.14														
Aug	242	0														
Aug	243	0														
Sept	244	0														
Sept	245	0.03														
Sept	246	0.44														
Sept	247	0.21														
Sept	248	0														
Sept	249	0														
Sept	250	0														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Sept	251	0														
Sept	252	0														
Sept	253	0														
Sept	254	0.07														
Sept	255	0.02														
Sept	256	0														
Sept	257	0														
Sept	258	0														
Sept	259	0														
Sept	260	0														
Sept	261	0														
Sept	262	0.11														
Sept	263	0														
Sept	264	0														
Sept	265	0														
Sept	266	0														
Sept	267	0														
Sept	268	0														
Sept	269	0.23														
Sept	270	0														
Sept	271	0														
Sept	272	0														
Sept	273	0														
Oct	274	0.05														
Oct	275	0.07														
Oct	276	0.02														
Oct	277	0														
Oct	278	0														
Oct	279	0														
Oct	280	0														
Oct	281	0														
Oct	282	0														
Oct	283	0														
Oct	284	0														
Oct	285	0														
Oct	286	0														
Oct	287	0														
Oct	288	0.04														
Oct	289	0														
Oct	290	0														
Oct	291	0.14														
Oct	292	0.09														
Oct	293	0														
Oct	294	0														
Oct	295	0														
Oct	296	0														
Oct	297	0														
Oct	298	0														
Oct	299	0														
Oct	300	0														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Oct	301	0														
Oct	302	0														
Oct	303	0														
Oct	304	0														
Nov	305	0														
Nov	306	0														
Nov	307	0														
Nov	308	0														
Nov	309	0														
Nov	310	0														
Nov	311	0														
Nov	312	0														
Nov	313	0														
Nov	314	0														
Nov	315	0														
Nov	316	0														
Nov	317	0														
Nov	318	0														
Nov	319	0														
Nov	320	0														
Nov	321	0														
Nov	322	1.22														
Nov	323	0.12														
Nov	324	0														
Nov	325	0.05														
Nov	326	0														
Nov	327	0														
Nov	328	0														
Nov	329	0														
Nov	330	0.36														
Nov	331	0														
Nov	332	0														
Nov	333	0														
Nov	334	0														
Dec	335	0														
Dec	336	0														
Dec	337	0.21														
Dec	338	0														
Dec	339	0														
Dec	340	0														
Dec	341	0.02														
Dec	342	0														
Dec	343	0														
Dec	344	0														
Dec	345	0														
Dec	346	0														
Dec	347	0.01														
Dec	348	0.2														
Dec	349	0.15														
Dec	350	0														

		Appendix D. Daily Precipitation (in.) for Lead, SD														
		sd483404		(1909-1999)												
		Source - SDSU Climate Center (Bender, 2000b)										na = not available				
Day of																
Month	Yr	1999														
Dec	351	0.05														
Dec	352	0														
Dec	353	0.28														
Dec	354	0.04														
Dec	355	0.47														
Dec	356	0.38														
Dec	357	0.04														
Dec	358	0														
Dec	359	0														
Dec	360	0														
Dec	361	0														
Dec	362	0														
Dec	363	0														
Dec	364	0														
Dec	365	0														
29 Feb	366															