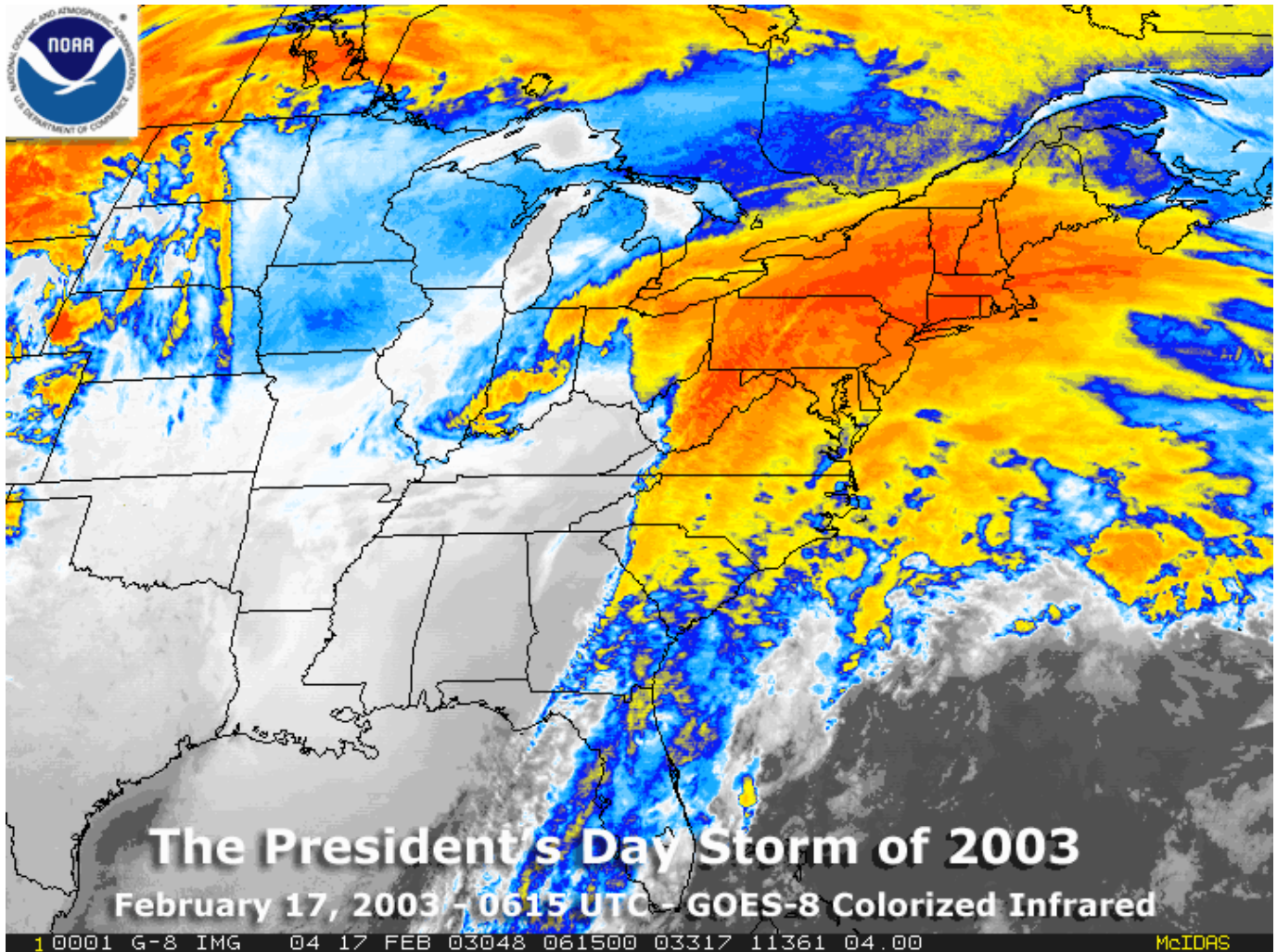


# Assateague Island National Seashore

## Meteorological Monitoring Program

### 2003 Weather Data Report



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## **Abstract**

Assateague Island National Seashore (ASIS) continued the operation of three weather data collection stations in Maryland during 2003 as part of its long-term meteorological monitoring program. The Remote Automatic Weather Station (RAWS) continued to be utilized as the Seashore's primary source of weather data. Two additional limited collection stations were maintained as sources of back-up data at ASIS Headquarters and the Assateague Island State Park Headquarters. All data were retrieved on a monthly basis, processed into summary reports, and submitted to the National Weather Service (NWS), the Maryland Department of the Environment (MDE), the Maryland State Climatologist and the Worcester County Environmental Programs. This annual report presents a graphical compilation of RAWS data and documents significant weather events in the 2003 monitoring year at ASIS.

## **Introduction**

Barrier island ecosystems such as that encompassed by Assateague Island National Seashore are continually influenced by meteorological events. Weather drives basic physical processes which shape the coastal environment, and extreme events, such as hurricanes and nor'easters, can dramatically modify the geomorphology and character of the island. Weather phenomena also exert a powerful force over the composition, distribution, and dynamics of the island's diverse biotic communities. In order to document ambient weather conditions and weather-related phenomena, ASIS implemented a formal monitoring program in 1988. This program is intended to provide information that will assist in management decision-making and better understanding the Assateague environment. The primary objectives of the ASIS Weather Monitoring Program are to:

1. develop a long term record of climatological conditions on Assateague Island;
2. document meteorological conditions during extreme weather events; and,
3. develop meteorological data to support other local/regional monitoring programs.

In 2003, meteorological data were collected at three specific locations within, and just outside, the boundaries of ASIS (Fig. 1). The primary data were collected at the Remote Automatic Weather Station (RAWS). Two limited-capability data collection stations were maintained as sources of backup data to RAWS at ASIS Headquarters and at the Assateague State Park Headquarters (adjacent to the ASIS housing area on the mainland). Data collection and monitoring parameters vary at each station and are described in the following section.

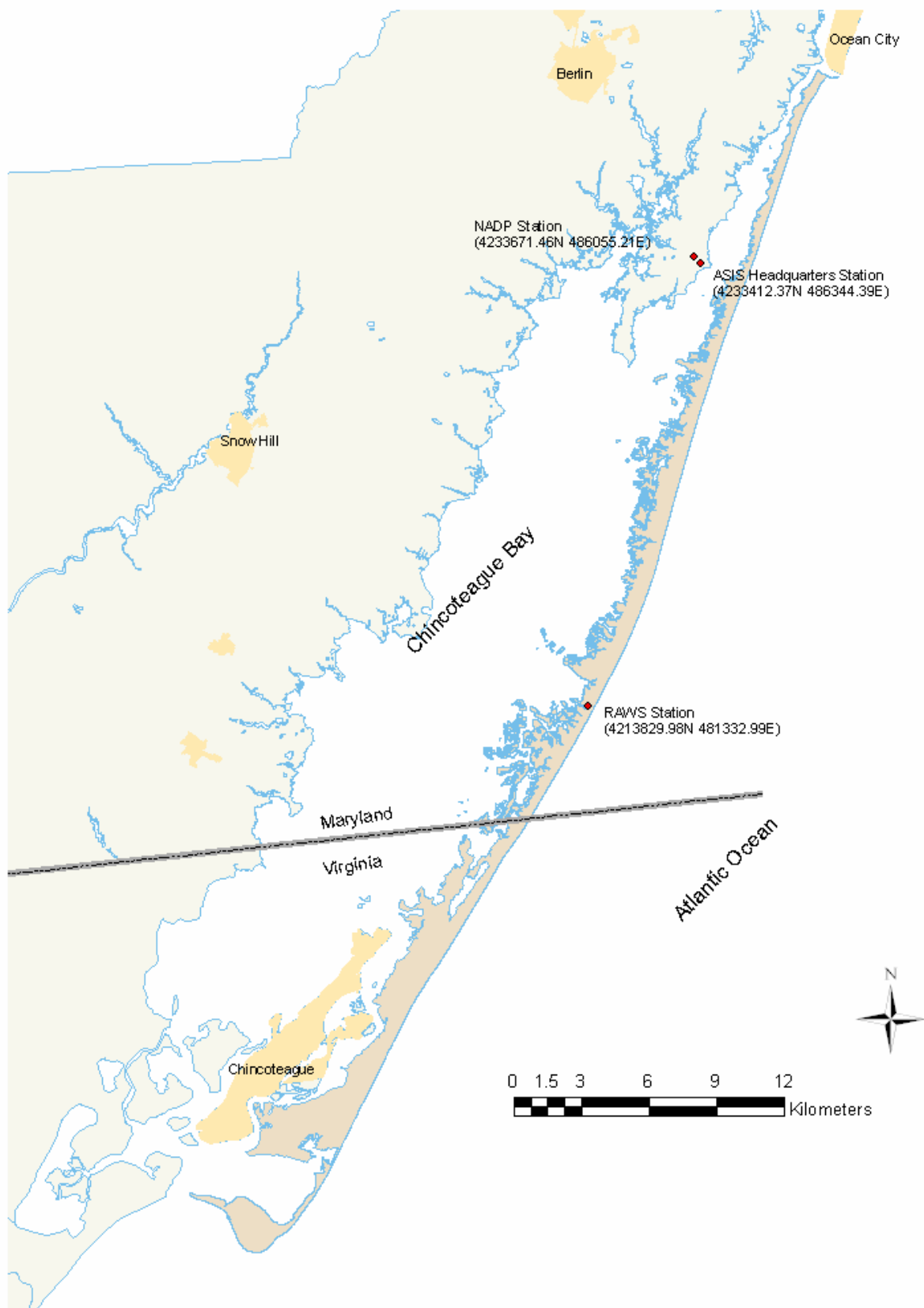


Figure 1. ASIS weather data collection stations

## Monitoring Equipment and Methodologies

### RAWS

Established on Assateague in late 1991, the RAWS is a Handar, Inc. instrument consisting of a standardized data collection platform configured to Bureau of Land Management – National Interagency Fire Center (BLM–NIFC) specifications for fire weather data collection. The current data collection platform continuously samples and records data for eight meteorological parameters at intervals ranging from 1 second to 1 hour (data collection hours run from 40 minutes past). RAWS data are converted from Greenwich Mean Time (GMT) into a standard of **GMT - 6** hours – or, effectively, Eastern Standard Time less one hour – year-round. Complete datasets are transmitted to NIFC every 3 hours starting at 01:40 GMT. Table 1 displays the current configurations of the fifteen measurements (or, “channels”) collected by the ASIS RAWS; the *Results and Discussion* section describes data issues related to RAWS configuration.

RAWS data are retrieved over the internet from the Weather Information Management System (WIMS) monthly. These data are then processed and reported to the National Weather Service (NWS) and the Maryland State Climatologist (University of Maryland, College Park, MD) in a standard NOAA monthly report (see Fig. 2). Processed data are saved in a Microsoft Access database under the RAWS subdirectory on the author’s PC hard drive, while a monthly-updated copy of this database is provided in the ASIS Electronic Library. A BLM-NIFC website, <http://www.nifc.blm.gov/nsdu/weather>, provides RAWS data for the previous 90 days, thereby serving as a backup data source to monthly downloads. This site is currently available to all Resource Management Personnel. Routine maintenance, which includes visual inspection of the station on a monthly basis (at the data downloads), and the biannual replacement of all sensors, was performed in 2003. Replacement sensors are supplied by the BLM–NIFC Remote Sensing Support Group Depot Facility, and installed by ASIS personnel.

### *North Beach Ranger Station*

The North Beach Ranger Station weather station was abandoned as a data collection point for Resource management use. The system was unreliable and inaccurate.

### *ASIS Headquarters*

Rainfall is monitored at the ASIS Headquarters (HQ) station with a manual, “All-Weather” funnel-and-tube gauge. Rainfall amounts are measured daily at 4:00 PM to the nearest 100th of an inch and recorded on an annual precipitation log maintained in the Resource Management Office. Snowfall is also recorded at this station, and the values are appended to the RAWS database (RAWS does not measure snow), and subsequently listed on the NOAA report. ASIS HQ data are reported to the Maryland Department of the Environment and to the Worcester County Environmental Program for use in evaluating the need for closures within regional shellfish harvest areas. At the end of the year, the original copy of the precipitation record is stored in the ASIS Resource Management data files under RIN 13.02.103, and a digital copy is produced and stored on the author’s PC hard drive.

### *Assateague State Park/Woodcock Field*

In operation since September 2000, a Belfort Universal Recording Rain Gauge is checked weekly within NADP (National Atmospheric Deposition Program) precipitation sample collections. This system provides useful backup data to the HQ gauge as it is situated only one-quarter of a mile further west on State land. An additional benefit of this type of rain gauge is its dual recording function: accumulation is coordinated with the time and duration of the precipitation event on paper charts. Currently, hard copies of the weekly gauge charts are retained for two years per NADP instructions. Precipitation totals (sans event records) and atmospheric deposition data are available on the NADP website <http://nadp.sws.uiuc.edu> (NOTE: there is a 5-6 month lag in data availability).

| <b>Parameter</b>             | <b>Units</b> | <b>Period of Primary Data Collection</b> | <b>Interval of Primary Data Collection</b> | <b>Total # of Primary Data Collected</b> | <b>Primary Data Processing Function</b> |
|------------------------------|--------------|------------------------------------------|--------------------------------------------|------------------------------------------|-----------------------------------------|
| <b>Rainfall</b>              | inches       | 1 hour                                   | when bucket tips                           | variable                                 | sums value of tips then logs            |
| <b>Avg. Air Temp.</b>        | degrees (F)  | 1 hour                                   | 1 hour                                     | 1                                        | logs current value                      |
| <b>Max. Air Temp.</b>        | degrees (F)  | 24 hours                                 | 5 minutes                                  | 288                                      | takes maximum then logs                 |
| <b>Min. Air Temp.</b>        | degrees (F)  | 24 hours                                 | 5 minutes                                  | 288                                      | takes minimum then logs                 |
| <b>Avg. Wind Speed</b>       | miles/hour   | last 10 minutes of each hour             | 1 second                                   | 600                                      | averages then logs                      |
| <b>Avg. Wind Direct.</b>     | degrees      | last 10 minutes of each hour             | 1 second                                   | 600                                      | averages then logs                      |
| <b>Max. Wind Gust</b>        | miles/hour   | 1 hour                                   | 1 second                                   | 3600                                     | takes maximum then logs                 |
| <b>Max. Gust Direct.</b>     | degrees      | 1 hour                                   | 1 second                                   | 3600                                     | selects match to maximum then logs      |
| <b>Barometric Pressure</b>   | inches of Hg | 1 hour                                   | 1 hour                                     | 1                                        | logs current value                      |
| <b>Relative Humidity</b>     | percent      | last 10 minutes of each hour             | 1 second                                   | 600                                      | averages then logs                      |
| <b>Max Relative Humidity</b> | percent      | 24 hours                                 | 5 minutes                                  | 288                                      | takes maximum then logs                 |
| <b>Min Relative Humidity</b> | percent      | 24 hours                                 | 5 minutes                                  | 288                                      | takes minimum then logs                 |
| <b>Fuel Temp.</b>            | degrees (F)  | 1 hour                                   | 1 hour                                     | 1                                        | logs current value                      |
| <b>Fuel Moisture</b>         | percent      | 1 hour                                   | 1 hour                                     | 1                                        | logs current value                      |
| <b>Battery Voltage</b>       | volts        | 1 hour                                   | 1 hour                                     | 1                                        | logs current value                      |

Table 1. Hourly measures collected by ASIS RAWs.

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**RECORD OF CLIMATOLOGICAL OBSERVATIONS - submitted to NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION****Month: December Year: 2003**

(In lieu of form B-91)

STATION: Remote Automatic Weather Station, Assateague Island National Seashore, Worcester County, Maryland

STATION NUMBER 180335-1

STATION LOCATION: 4213829.98 N 481332.99 E (UTM Zone 18, NAD-83)

Data are daily summaries of hourly values,  
midnight to midnight, Eastern Standard Time.For more information contact: Natural Resources Management  
Assateague Island National Seashore  
7206 National Seashore Lane  
Berlin, MD 21811 (410) 641-1443

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| Date       | Air Temp<br>24-hour<br>maximum<br>[F] | Air Temp<br>24-hour<br>minimum<br>[F] | Air Temp<br>24-hour<br>average<br>[F] | Rain<br>24-hour<br>increase<br>[inches] | Wind Speed<br>24-hour<br>average<br>[mph] | Wind Speed<br>24-hour<br>maximum<br>[mph] | Snow<br>24-hour<br>increase<br>[inches] |
|------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|
| 12/1/2003  | 50                                    | 37                                    | 49                                    | 0.00                                    | 8.0                                       | 30                                        |                                         |
| 12/2/2003  | 60                                    | 39                                    | 39                                    | 0.00                                    | 9.7                                       | 27                                        |                                         |
| 12/3/2003  | 46                                    | 32                                    | 32                                    | 0.00                                    | 6.0                                       | 19                                        |                                         |
| 12/4/2003  | 39                                    | 28                                    | 37                                    | 0.02                                    | 3.7                                       | 17                                        |                                         |
| 12/5/2003  | 45                                    | 26                                    | 47                                    | 1.81                                    | 22.1                                      | 45                                        |                                         |
| 12/6/2003  | 49                                    | 43                                    | 34                                    | 0.09                                    | 11.0                                      | 27                                        |                                         |
| 12/7/2003  | 48                                    | 31                                    | 32                                    | 0.01                                    | 10.6                                      | 31                                        |                                         |
| 12/8/2003  | 36                                    | 29                                    | 34                                    | 0.00                                    | 4.6                                       | 18                                        |                                         |
| 12/9/2003  | 43                                    | 25                                    | 38                                    | 0.00                                    | 2.6                                       | 10                                        |                                         |
| 12/10/2003 | 48                                    | 25                                    | 50                                    | 0.17                                    | 11.6                                      | 29                                        |                                         |
| 12/11/2003 | 55                                    | 43                                    | 50                                    | 1.41                                    | 18.3                                      | 41                                        |                                         |
| 12/12/2003 | 58                                    | 40                                    | 39                                    | 0.00                                    | 6.2                                       | 30                                        |                                         |
| 12/13/2003 | 49                                    | 33                                    | 35                                    | 0.00                                    | 7.7                                       | 25                                        |                                         |
| 12/14/2003 | 43                                    | 32                                    | 46                                    | 1.38                                    | 20.3                                      | 44                                        |                                         |
| 12/15/2003 | 54                                    | 37                                    | 40                                    | 0.01                                    | 13.5                                      | 35                                        |                                         |
| 12/16/2003 | 46                                    | 32                                    | 41                                    | 0.00                                    | 5.1                                       | 17                                        |                                         |
| 12/17/2003 | 51                                    | 27                                    | 46                                    | 0.81                                    | 12.2                                      | 38                                        |                                         |
| 12/18/2003 | 55                                    | 34                                    | 36                                    | 0.00                                    | 10.0                                      | 28                                        |                                         |
| 12/19/2003 | 43                                    | 30                                    | 34                                    | 0.00                                    | 6.1                                       | 19                                        |                                         |
| 12/20/2003 | 41                                    | 32                                    | 35                                    | 0.00                                    | 6.5                                       | 19                                        |                                         |
| 12/21/2003 | 42                                    | 32                                    | 36                                    | 0.00                                    | 8.5                                       | 20                                        |                                         |
| 12/22/2003 | 45                                    | 29                                    | 43                                    | 0.00                                    | 7.5                                       | 20                                        |                                         |
| 12/23/2003 | 53                                    | 37                                    | 48                                    | 0.00                                    | 8.5                                       | 22                                        |                                         |
| 12/24/2003 | 55                                    | 42                                    | 49                                    | 1.68                                    | 9.0                                       | 29                                        |                                         |
| 12/25/2003 | 53                                    | 41                                    | 40                                    | 0.01                                    | 8.3                                       | 24                                        |                                         |
| 12/26/2003 | 45                                    | 34                                    | 38                                    | 0.00                                    | 10.3                                      | 28                                        |                                         |
| 12/27/2003 | 45                                    | 32                                    | 40                                    | 0.00                                    | 5.7                                       | 20                                        |                                         |
| 12/28/2003 | 51                                    | 34                                    | 40                                    | 0.00                                    | 3.1                                       | 11                                        |                                         |
| 12/29/2003 | 53                                    | 32                                    | 43                                    | 0.00                                    | 5.5                                       | 16                                        |                                         |
| 12/30/2003 | 53                                    | 32                                    | 49                                    | 0.00                                    | 8.0                                       | 28                                        |                                         |
| 12/31/2003 | 60                                    | 37                                    | 42                                    | 0.00                                    | 5.3                                       | 21                                        |                                         |
| Summary:   | 60                                    | 25                                    | 41                                    | 7.40                                    | 8.9                                       | 45                                        |                                         |

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Figure 2. Sample NOAA/NWS Report

## Results and Discussion

### Storm Activity

ASIS experienced two significant storms during 2003, a change from 2002 during which there were no significant storms. During 2003, there were 16 named storms in the Atlantic basin, far more than the 1944-1996 average of 9.8 storms per year. However, this level of activity is consistent with the number of tropical systems since the mid 1990s (1995-2002 average: 13.3; NOAA 2003b). Seven storms were classified as hurricanes and three were considered 'major' hurricanes (3 or higher on the Saffir-Simpson scale).

2003 was the longest Atlantic storm season since 1952. Tropical Storm Ana is the first recorded Atlantic storm in April, forming about 6 weeks before beginning of hurricane season on April 21<sup>st</sup>. Two named storms formed during December, after the traditional end of the hurricane season (November 30). This is the first year since 1887 in which two named storms formed during December.

Six storms impacted the coast of the US during 2003. The largest impact, and the storm that affected ASIS most, was Hurricane Isabel, which reached category 5 strength in the Atlantic and made landfall as a category two hurricane in North Carolina in September (Fig. 3). Isabel was the first hurricane to make landfall along the US East Coast since 1999 and the first hurricane to reach category 5 strength since Hurricane Mitch in 1998. Isabel developed into a tropical storm near the Cape Verde Island on September 6<sup>th</sup> and strengthened to hurricane strength on the 7<sup>th</sup> as it moved west-northwestward. Conditions were favorable for Isabel's development, with warm sea surface temperatures, low shear, and an impressive outflow pattern. Isabel became a category 5 hurricane on September 11<sup>th</sup> but weakened slightly on the 13<sup>th</sup>. The storm came ashore along North Carolina's Outer Banks as a minimal category 2 storm (Fig. 4). Hurricane force winds and a storm surge of up to 7-10 feet led to coastal flooding and damage. Isabel also brought heavy rainfall to interior Virginia and the mid-Atlantic, which already had very wet soils, and led to downed trees and power lines (NOAA 2003b). It is estimated that 16 people died resulting from Hurricane Isabel (NOAA 2004a).

Several factors contributed to the active hurricane season in 2003. El Nino conditions in the Pacific, which contributed to decreasing storm activity in 1997 and 2002, were absent. Conditions associated with a multi-decadal period of enhanced activity that began in 1995 continued. At least three major hurricanes have formed every year since 1995, excluding 1997 and 2002.

Another major storm event during occurred February 15-17, 2003 which brought record snowfall to many areas on the East Coast (NOAA 2003a). Known as the President's Day storm, it brought over 3 inches of precipitation to ASIS, much of it during a 6 hour period on the 16<sup>th</sup>. This includes 6 inches of snowfall recorded at ASIS headquarters.

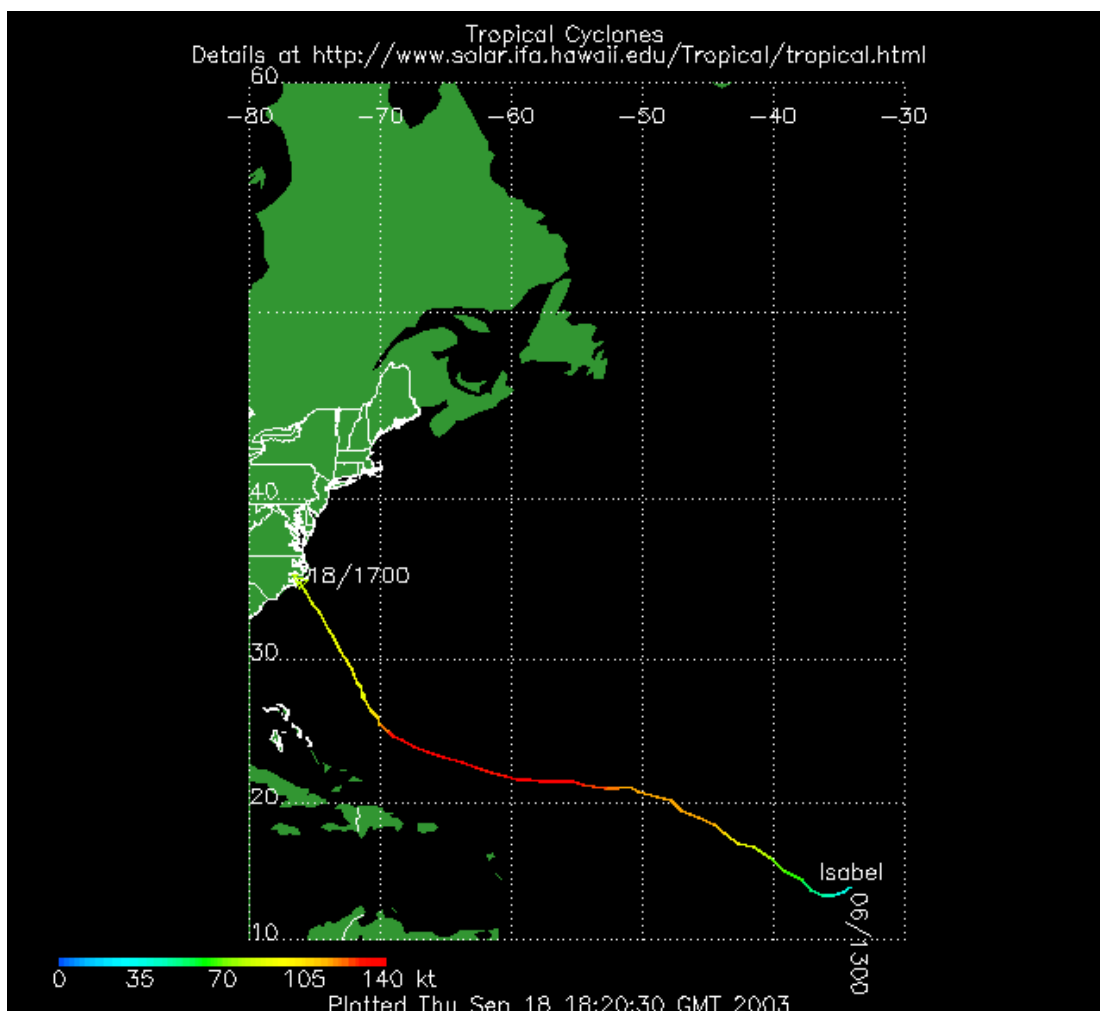


Figure 3. Track of Hurricane Isabel September 6 to September 18, 2003.

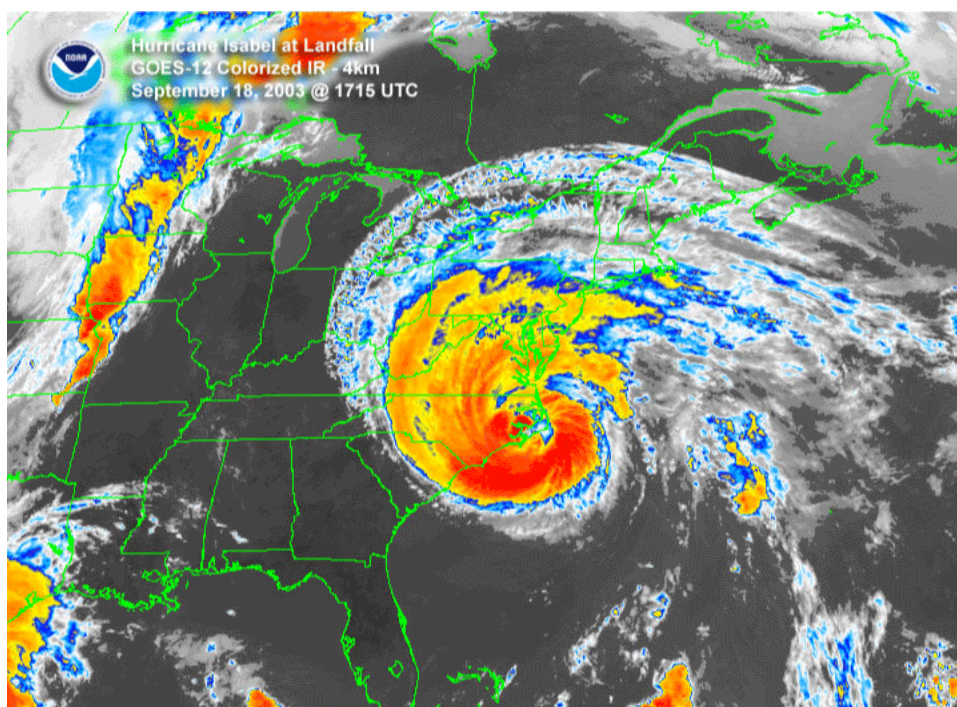


Figure 4. Hurricane Isabel makes landfall on September 18, 2003.

### Precipitation and Drought

The overall Maryland average precipitation for 2003 was 62.78 inches, which makes 2003 the wettest year on record in Maryland (NOAA 2004b). Virginia also had its wettest year on record, breaking previous annual totals by November (NOAA 2004c). Precipitation records date to 1895. ASIS RAWS received 58.04 inches of precipitation during 2003 (Fig. 5). This is well above the 1992-2002 average of 41.14 inches of precipitation per year. The second wettest year on record for Maryland was 1996, which is also the second wettest year recorded at ASIS RAWS. Hydrologic indicators were “Normal” during 2003 after dropping from “Emergency” status during much of 2002. Drought emergency conditions were lifted statewide on March 20, 2003 (MDE 2003), after Level 2 restrictions were lifted in Worcester County in November 2002:

On March 20, 2003, Governor Robert L. Ehrlich lifted the drought emergency for Baltimore City due to substantial precipitation that has restored the City's reservoir storage to near-normal levels. Mandatory water use restrictions are no longer in effect for any region of Maryland. Precipitation, ground water levels, and streamflows in all regions are above normal at this time. Maryland citizens are encouraged to remember that water is a very precious resource and must be used wisely. Citizens throughout the state should continue to conserve water in their everyday activities, by repairing leaks, installing low-flow fixtures and appliances, and adopting smart water use habits.

ASIS precipitation was below average only during January and November, though November precipitation totals were very close to average (Fig. 6). The Eastern United States received above average precipitation while the Western US received either normal or below normal levels of precipitation (NOAA 2004c). Along with Maryland and Virginia, North Carolina also recorded its wettest year.

### Temperatures

NOAA (NOAA 2004c), determined that 2003 is the 20th warmest year on record for the US. The last five 5-year periods were the warmest 5-year periods on record for the United States as was the past decade. The Eastern United States was generally cool while the western half of the country experienced generally warm temperatures. The 2003 average temperature at ASIS RAWS was 55.9° F, 0.5° F below the 11 year (1992-2002) average temperature of 56.4° F.

### RAWS Notes

Sensors were replaced in May and December of 2003. Due to a programming error, the daily maximum and minimum air temperature values during January 1-7 are each taken from a dataset of 24 hourly one-time readings (at hh:39) and *not* from the standard set of 288 readings (recorded every 5 minutes for 24 hours). On May 27<sup>th</sup> no maximum temperature was recorded by RAWS. On September 20<sup>th</sup> no maximum or minimum temperatures were recorded by RAWS.

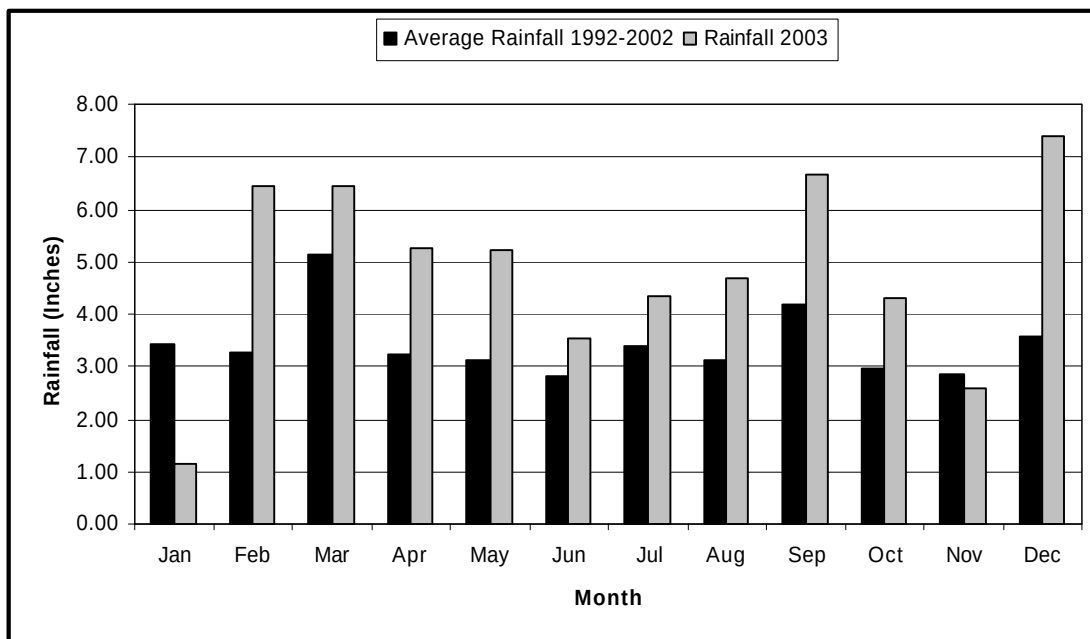


Figure 5. ASIS RAWS monthly rainfall for 2003 compared to average rainfall for the period 1992-2002.

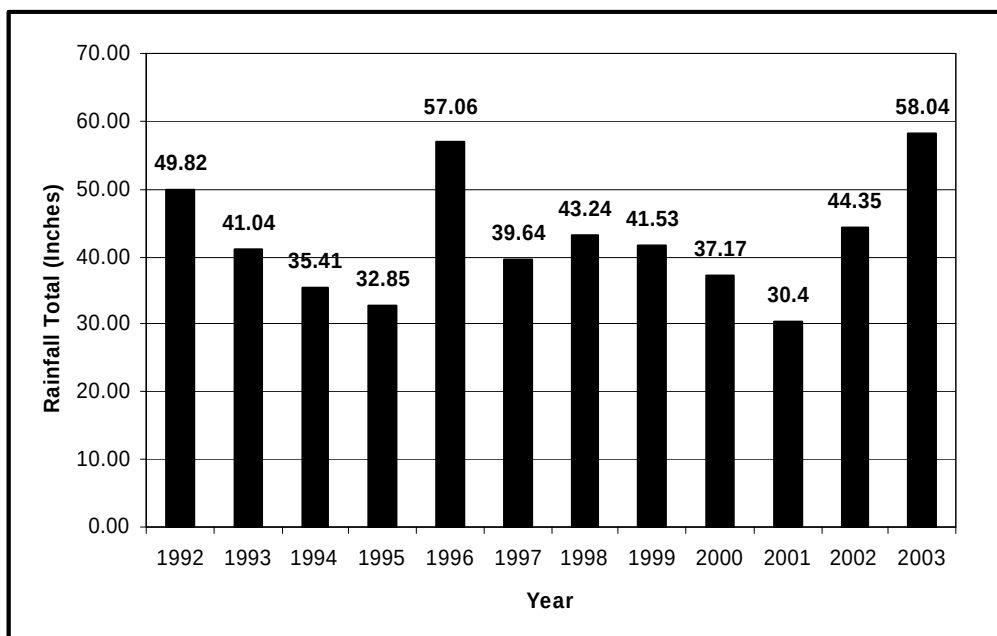


Figure 6. ASIS RAWS annual rainfall for 1992-2003.

## Works Cited

Maryland Department of the Environment (MDE). 2003. Drought Information website. *Maryland drought info*. March 20, 2003

< <http://www.mde.state.md.us/water/drought/index.asp> >

NOAA, United States Department of Commerce. 2003a. National Climatic Data Center (NCDC) website. *Climate of 2002/2003 North American Snow Season*. June 6, 2003

< <http://www.ncdc.noaa.gov/oa/climate/research/snow02.html#feb> >

NOAA, United States Department of Commerce. 2003b. National Climatic Data Center (NCDC) website. *Climate of 2003 Atlantic Hurricane Season*. December 12, 2003

< <http://lwf.ncdc.noaa.gov/oa/climate/research/hurricanes03.html> >

NOAA, United States Department of Commerce. 2004a. National Hurricane Center website. *2003 Atlantic Hurricane Season Summary*. January 23, 2004.

< [http://www.nhc.noaa.gov/2003atlan\\_summary.shtml](http://www.nhc.noaa.gov/2003atlan_summary.shtml) >

NOAA, United States Department of Commerce. 2004b. National Climatic Data Center (NCDC) website. *Climate at a glance: Annual precipitation Maryland*. April 6, 2003

< <http://climvis.ncdc.noaa.gov/cgi-bin/cag3/hr-display3.plfeb> >

NOAA, United States Department of Commerce. 2004c. National Climatic Data Center (NCDC) website. *Climate of 2003 Annual Review*. January 15, 2004

< <http://lwf.ncdc.noaa.gov/oa/climate/research/2003/ann/ann03.html> >

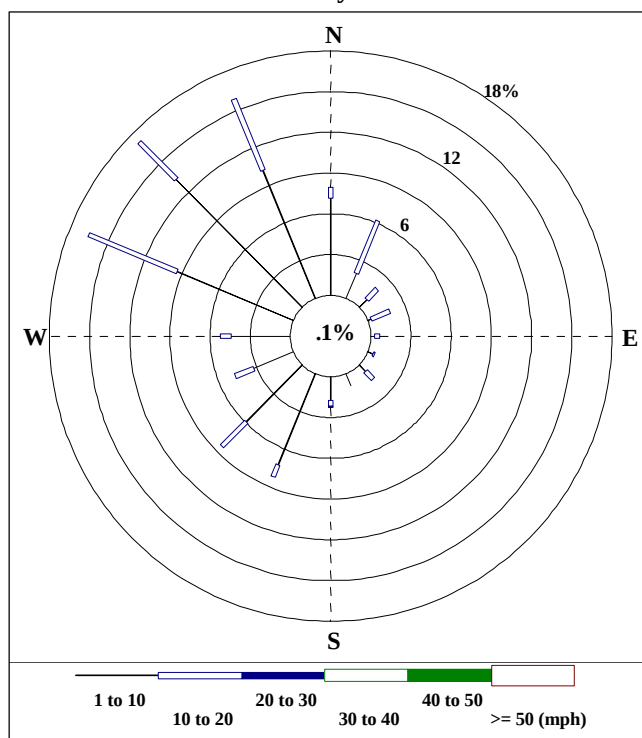
# Appendix A

## 2003 Graphics

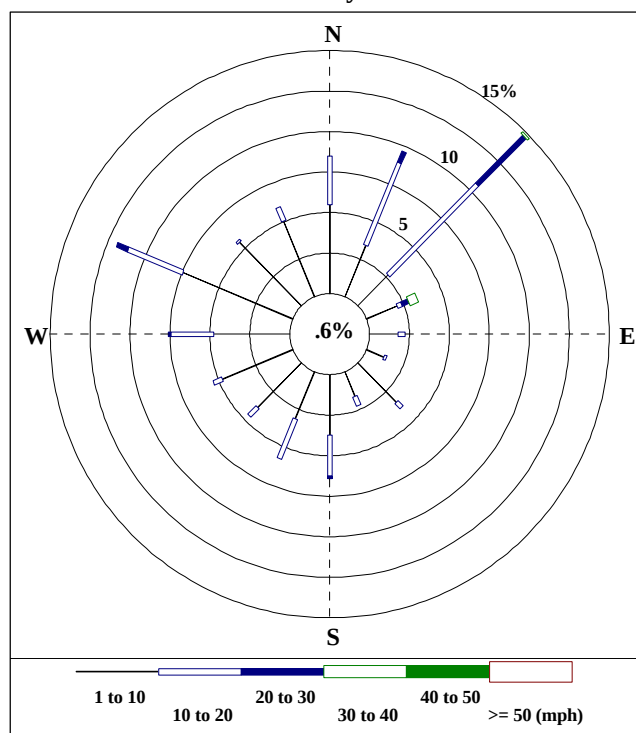
The monthly compilations of graphical data presented on the following pages are daily summaries of the RAWS hourly data for each parameter recorded by ASIS RAWS. When the RAWS sensors were disconnected for servicing, data from ASIS Headquarters station were substituted for missing RAWS data.

# Assateague Island National Seashore Windroses Average Wind Speed (MPH) and Direction, Compiled Hourly

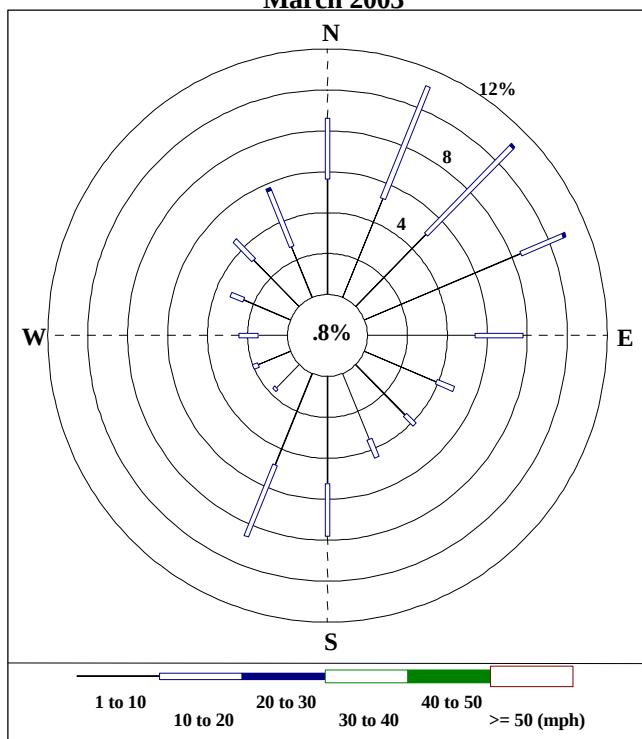
January 2003



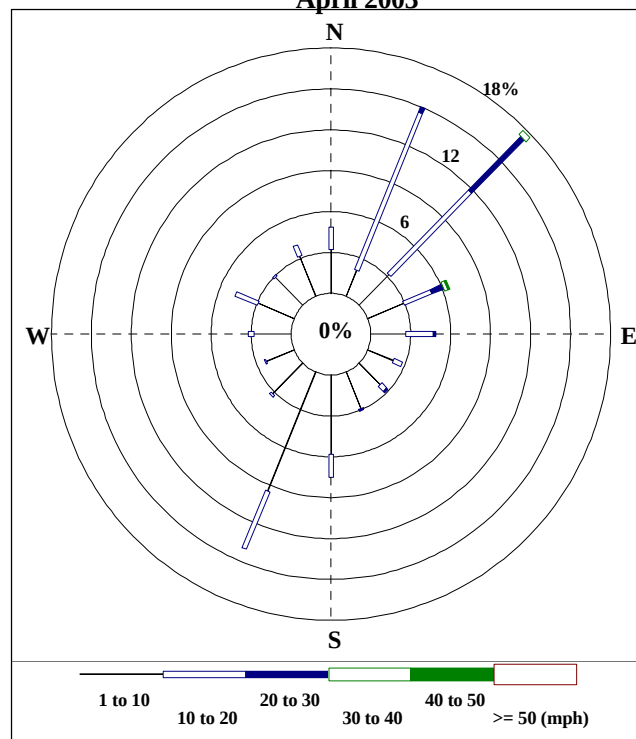
February 2003



March 2003



April 2003

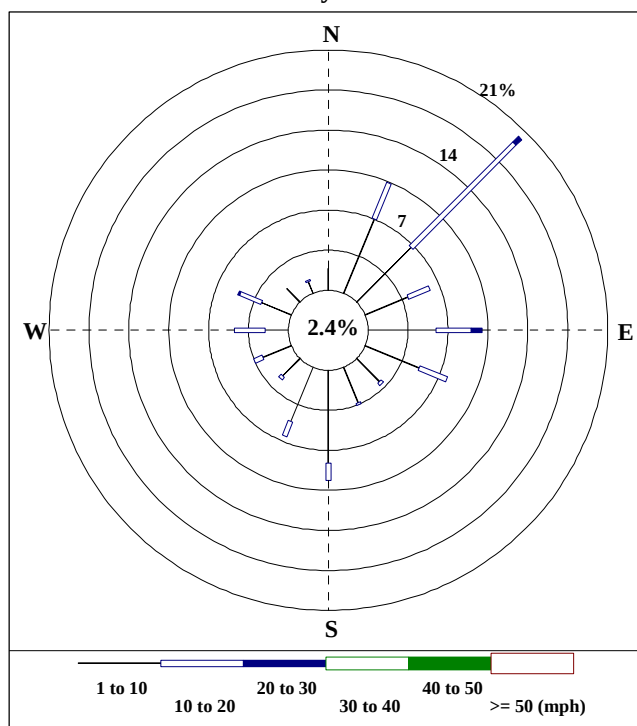


The length of each bar segment illustrates the percentage of time the wind blew at that speed and from the direction as indicated by bar width and orientation. The percentage of calm time is displayed in the center of the windrose.

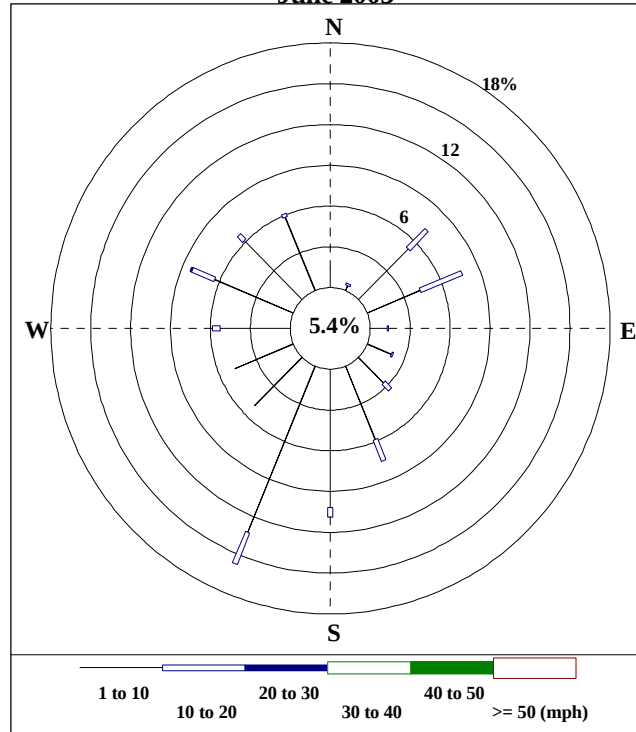
# Assateague Island National Seashore Windroses

## Average Wind Speed (MPH) and Direction, Compiled Hourly

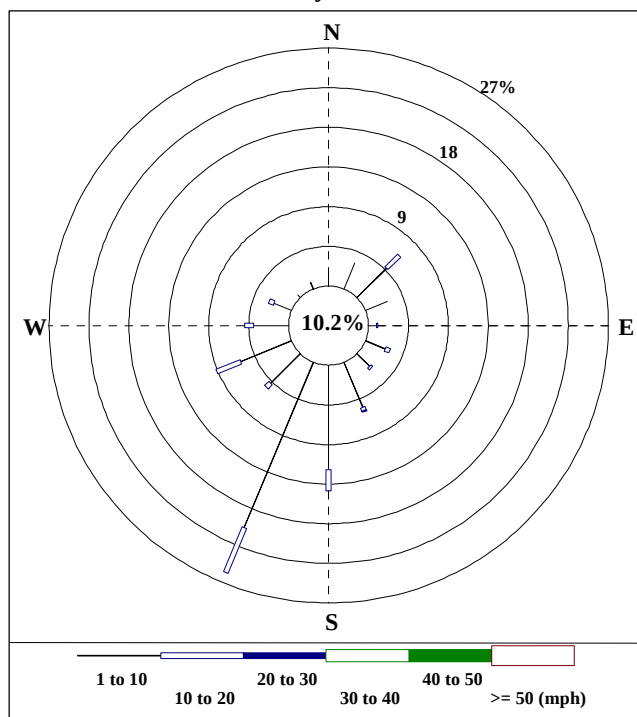
May 2003



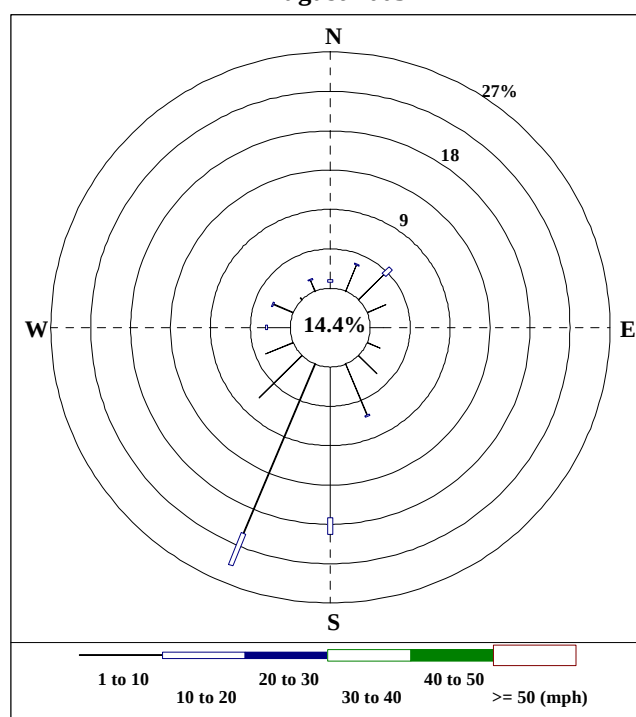
June 2003



July 2003

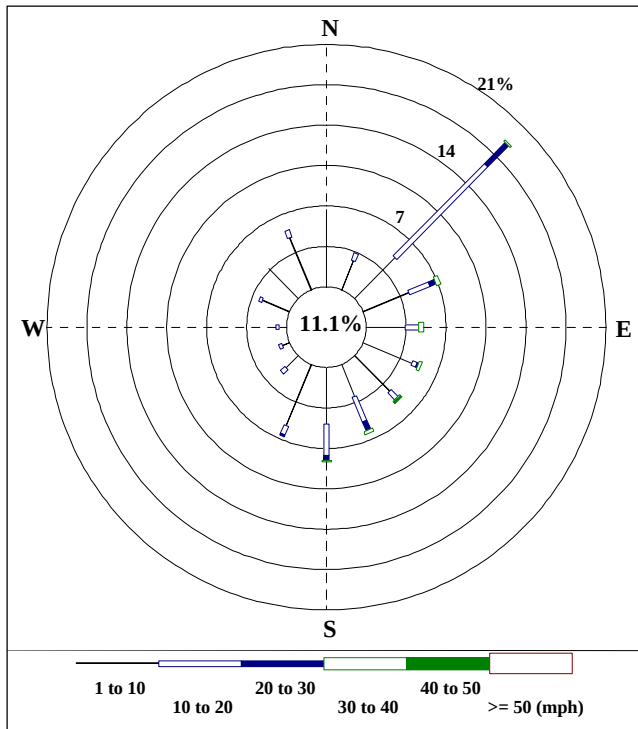


August 2003

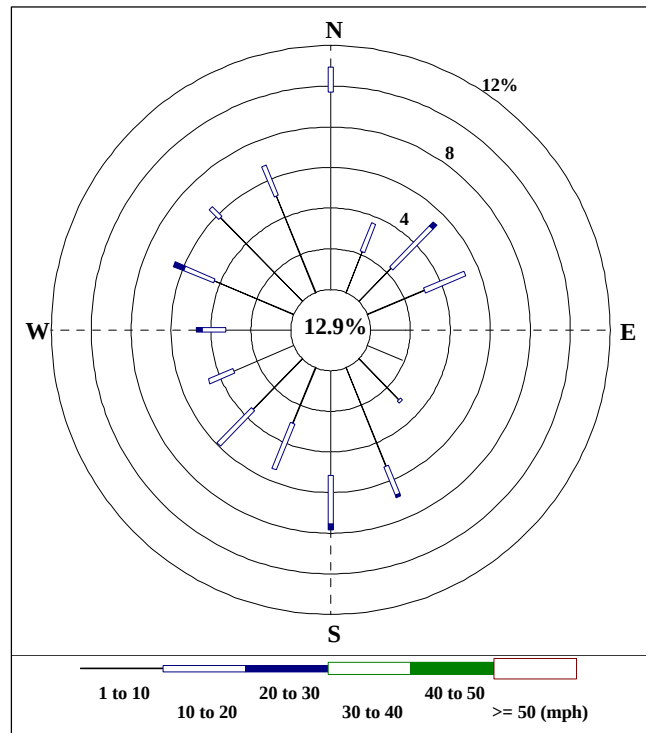


The length of each bar segment illustrates the percentage of time the wind blew at that speed and from the direction as indicated by bar width and orientation. The percentage of calm time is displayed in the center of the windrose.

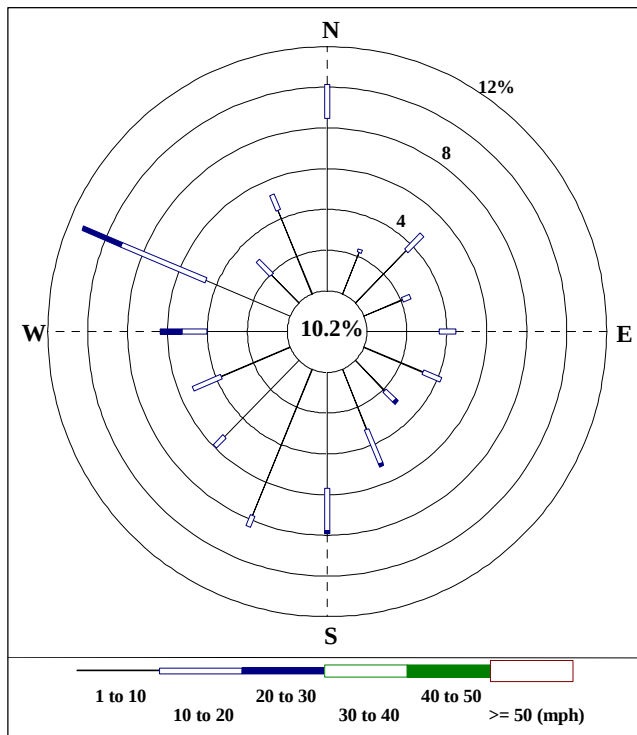
# Assateague Island National Seashore Windroses Average Wind Speed (MPH) and Direction, Compiled Hourly September 2003



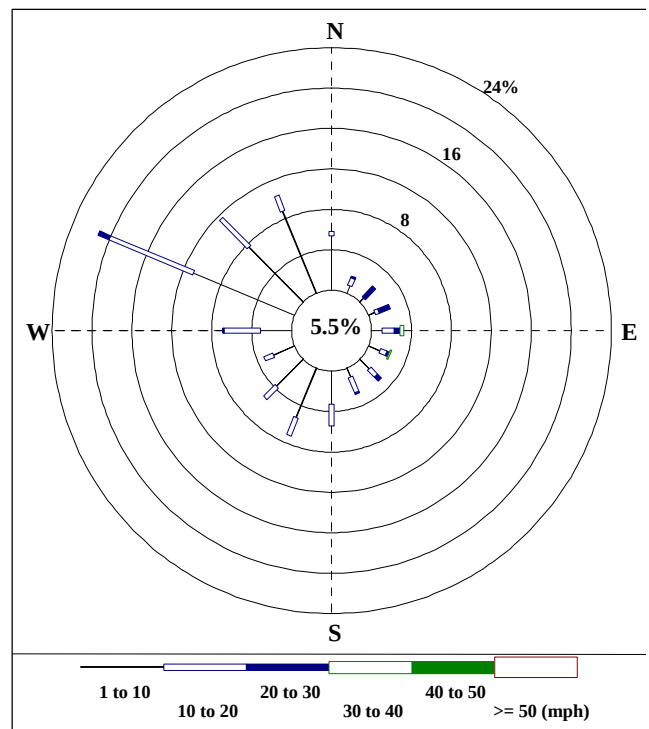
October 2003



November 2003

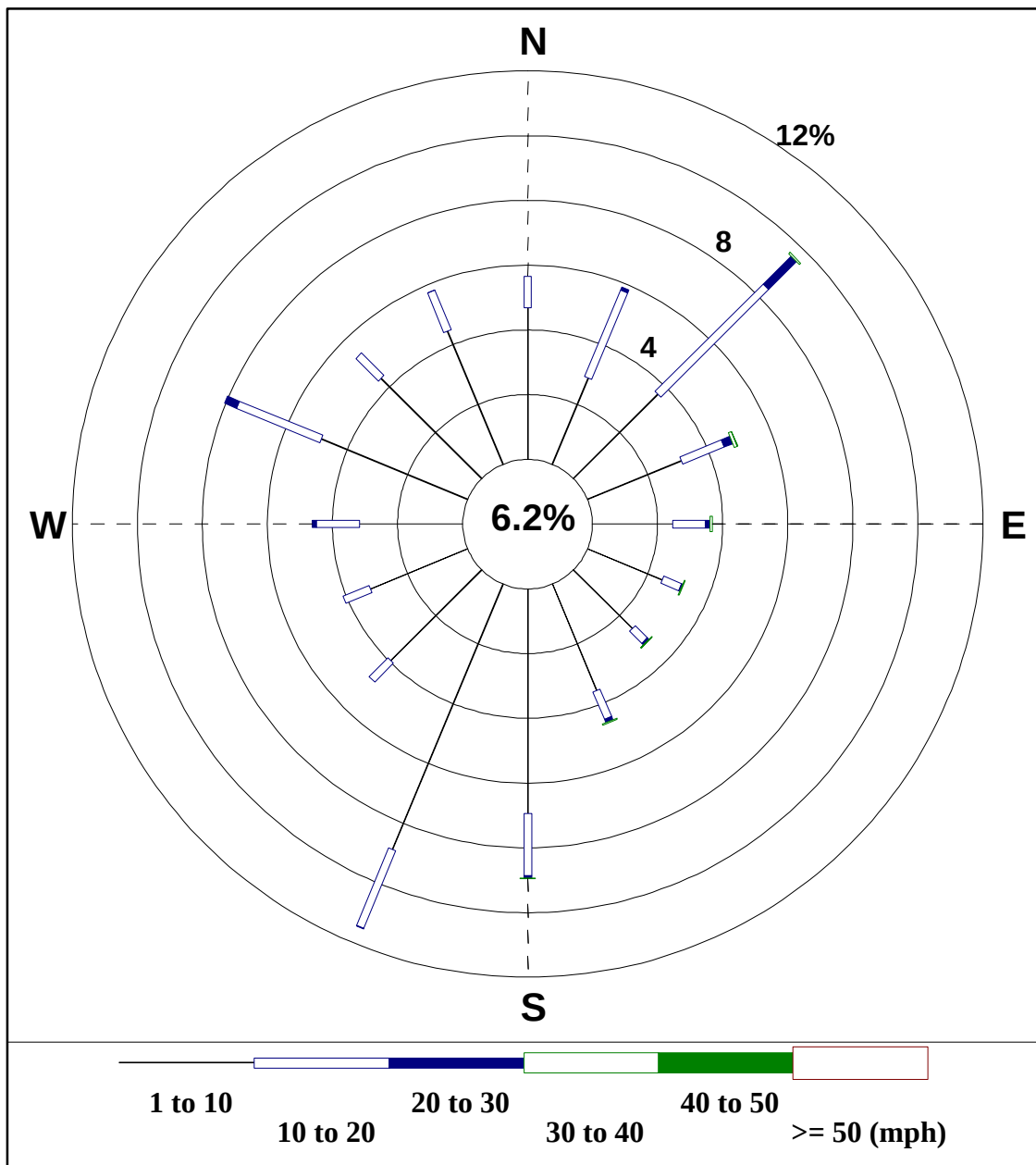


December 2003



The length of each bar segment illustrates the percentage of time the wind blew at that speed and from the direction as indicated by bar width and orientation. The percentage of calm time is displayed in the center of the windrose.

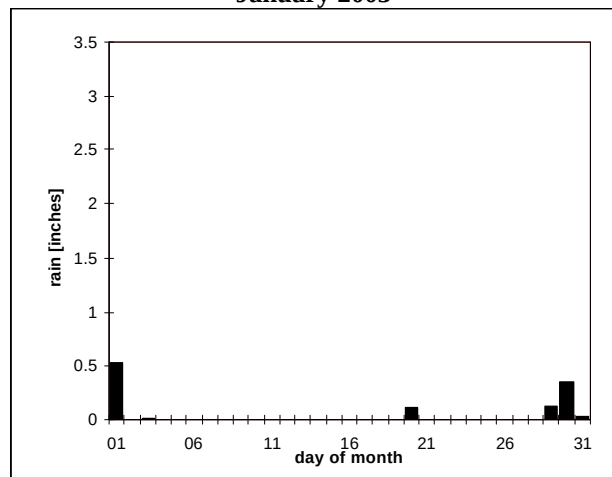
Assateague Island National Seashore Windroses  
Average Wind Speed (MPH) and Direction, Compiled Hourly  
**January 1, 2003 through December 31, 2003**



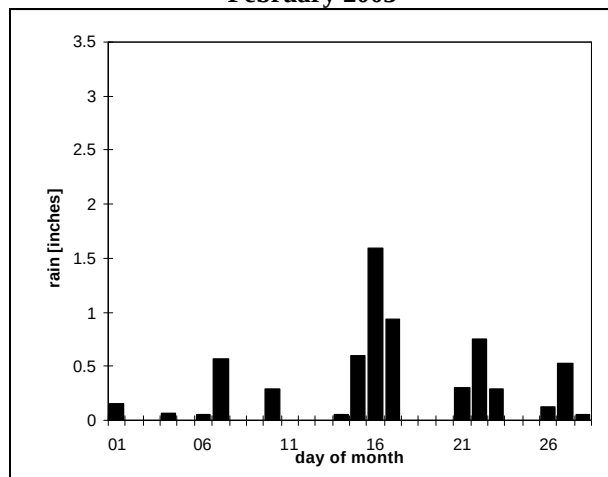
# Assateague Island National Seashore — 2003

## Daily Rainfall [Inches]

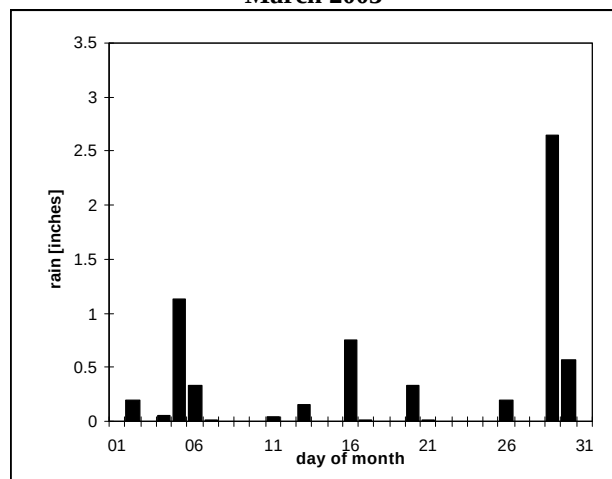
January 2003



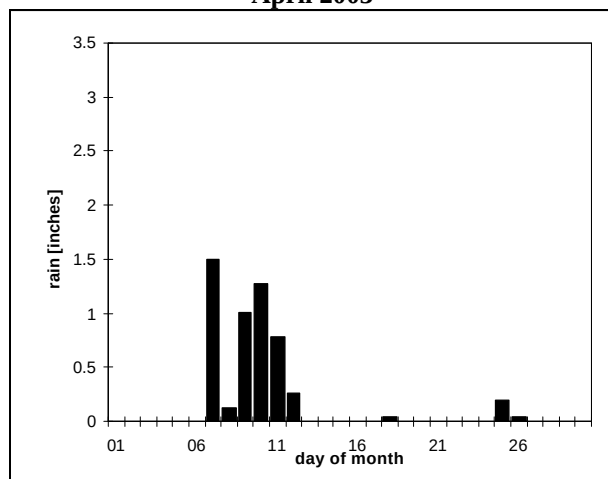
February 2003



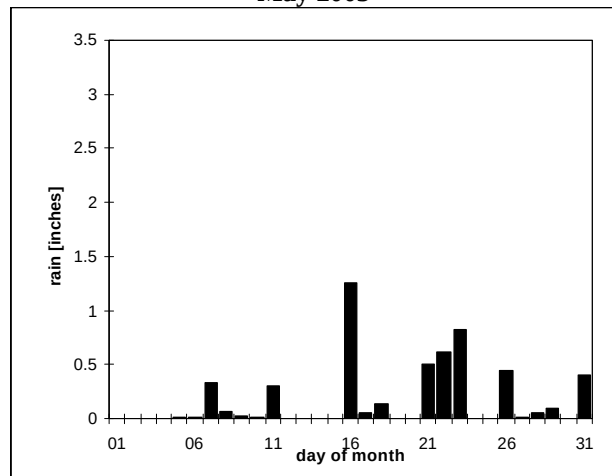
March 2003



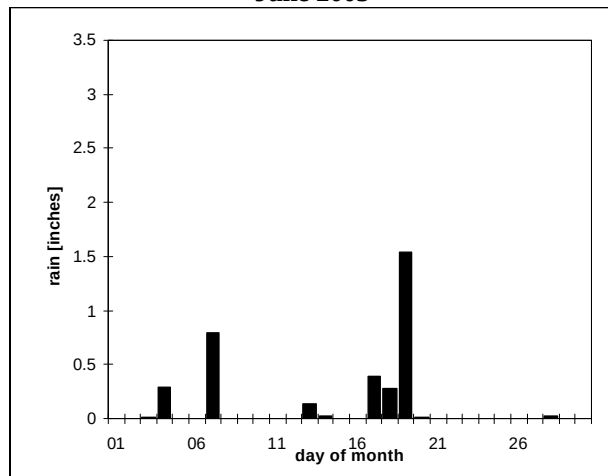
April 2003



May 2003



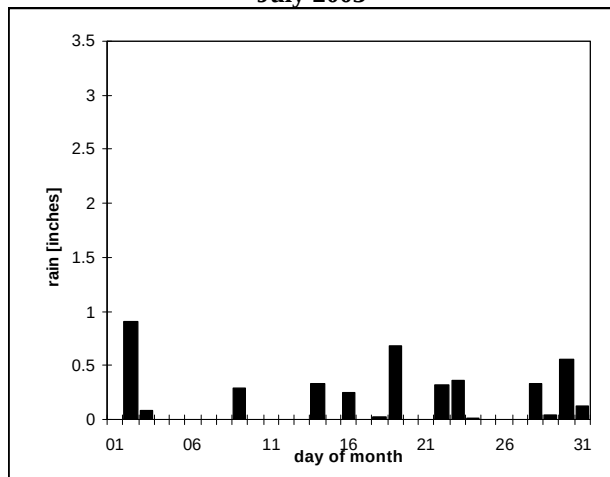
June 2003



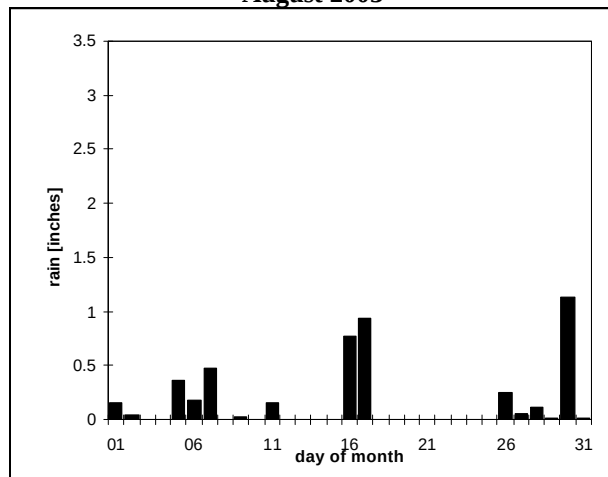
# Assateague Island National Seashore — 2003

## Daily Rainfall [Inches]

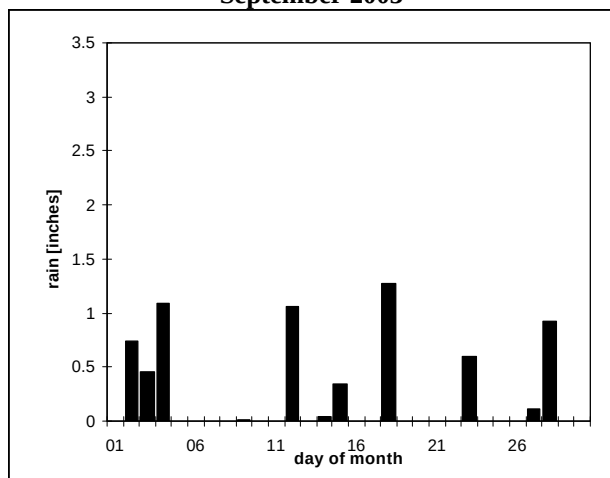
July 2003



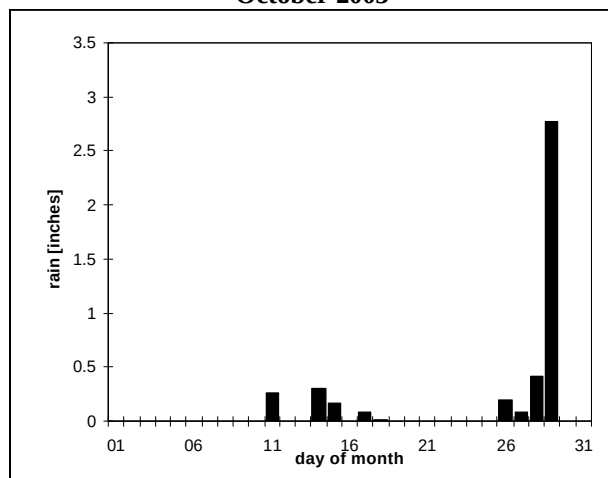
August 2003



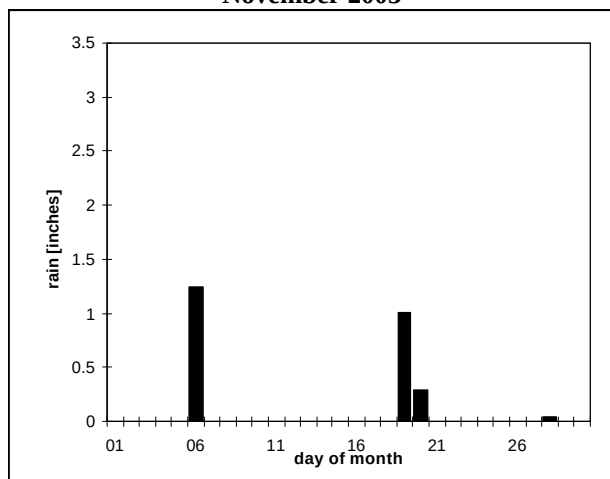
September 2003



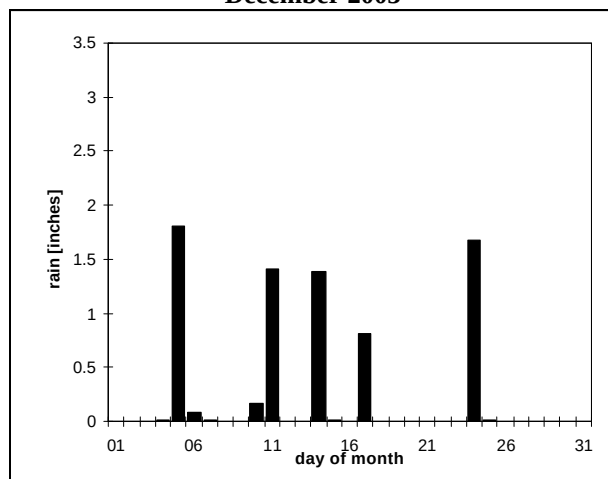
October 2003



November 2003

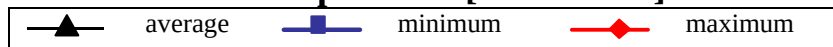


December 2003

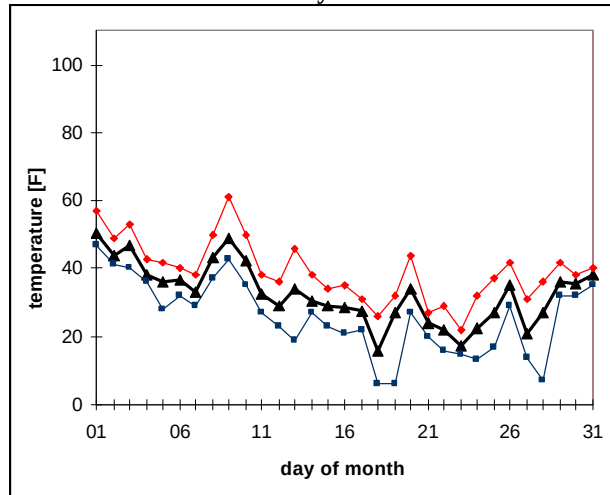


# Assateague Island National Seashore — 2003

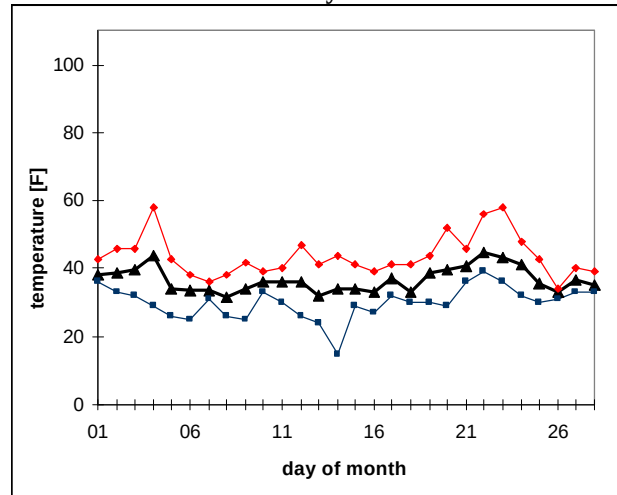
## Air Temperature [Fahrenheit]



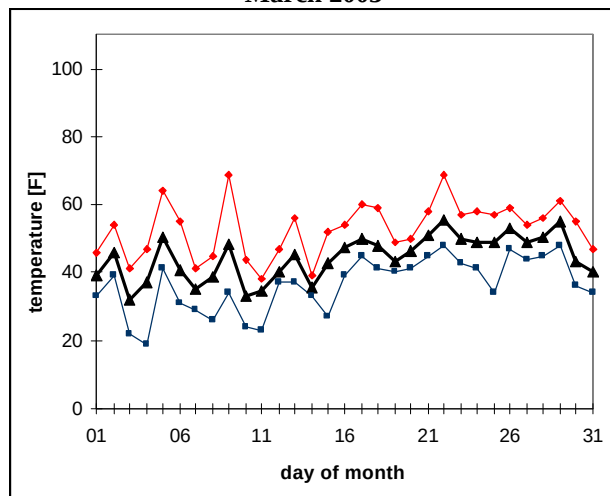
January 2003



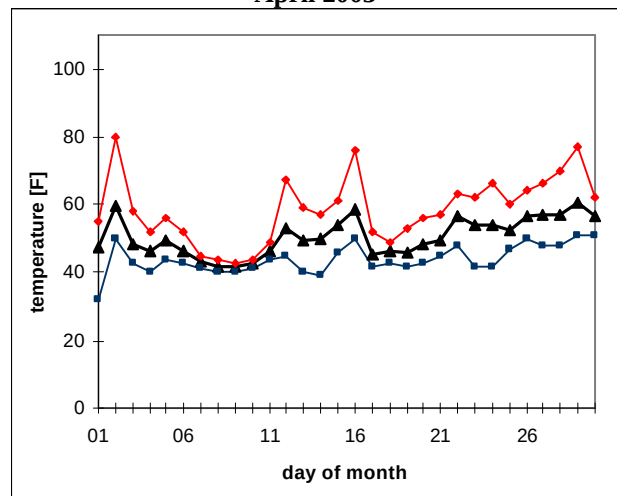
February 2003



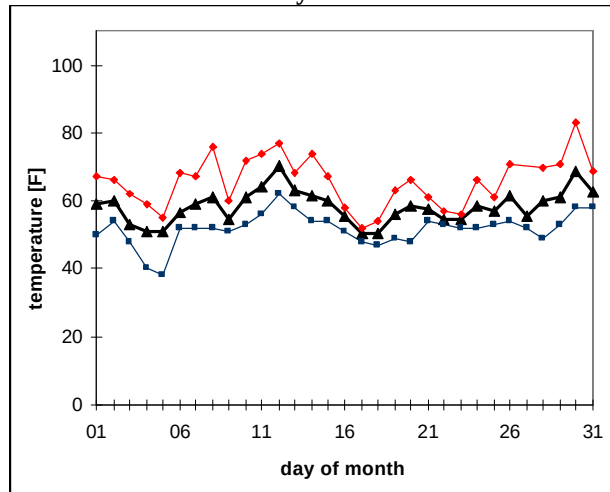
March 2003



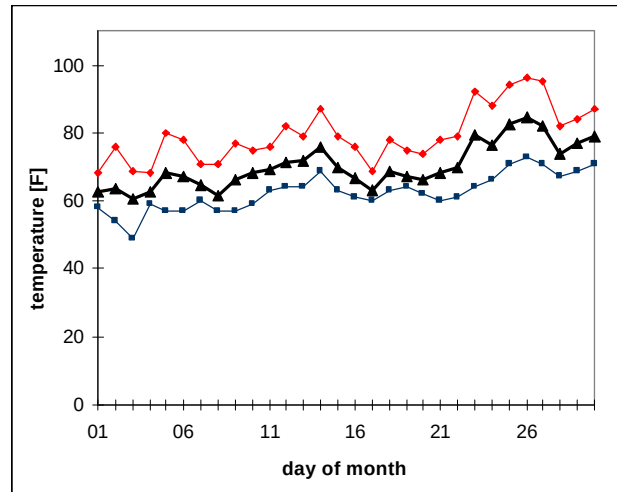
April 2003



May 2003

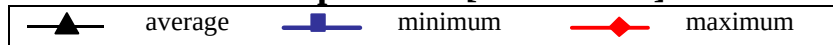


June 2003

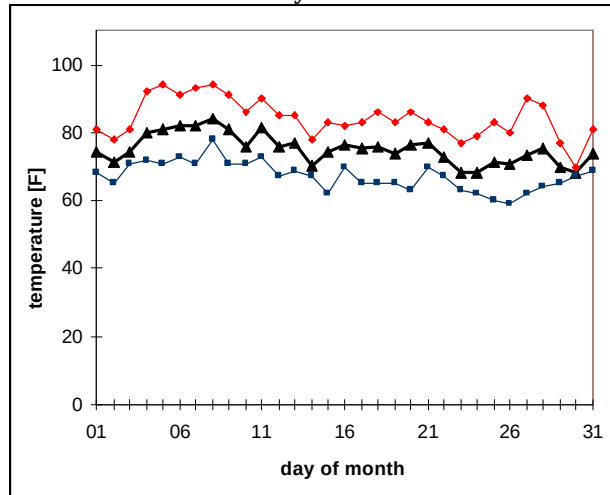


# Assateague Island National Seashore — 2003

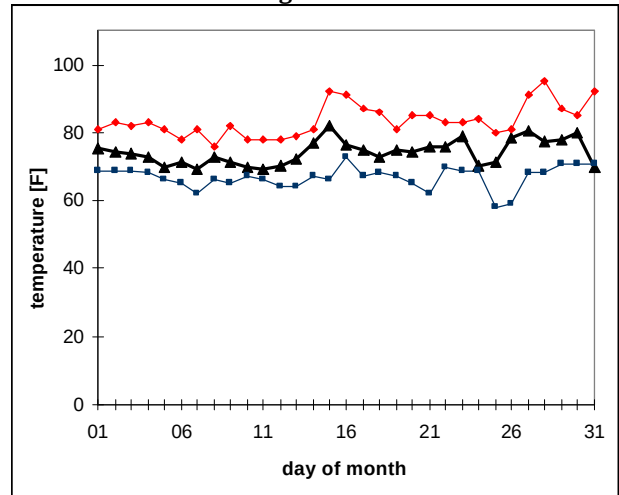
## Air Temperature [Fahrenheit]



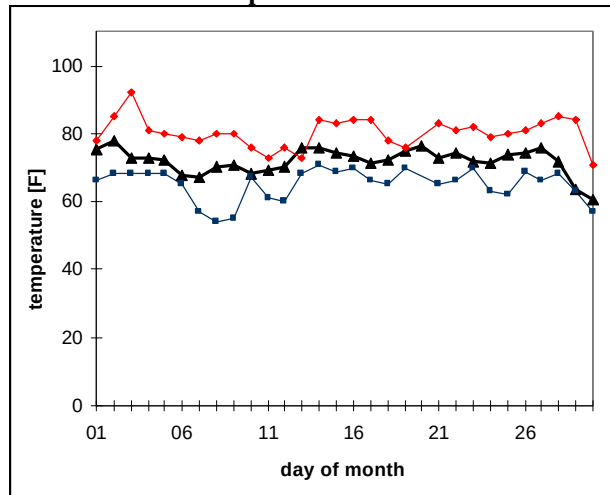
July 2003



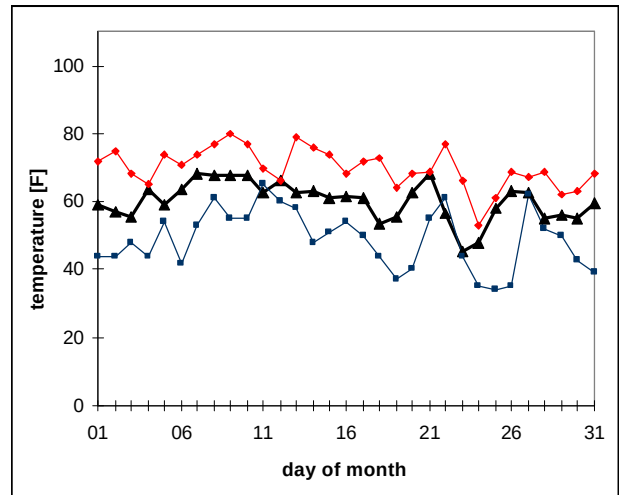
August 2003



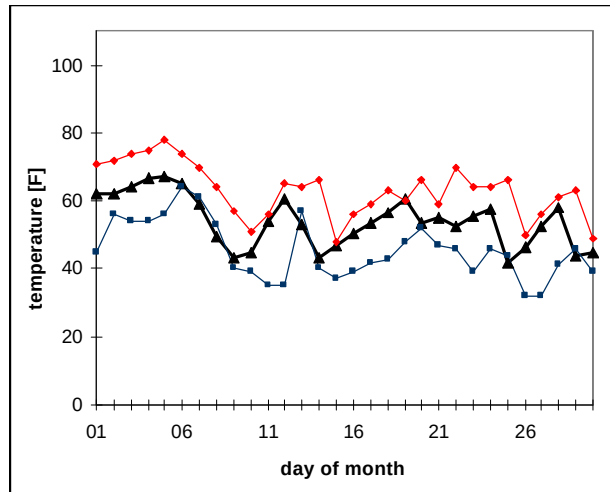
September 2003



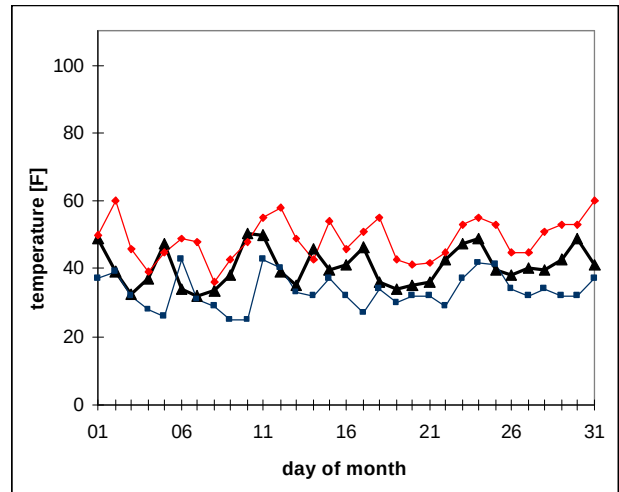
October 2003



November 2003

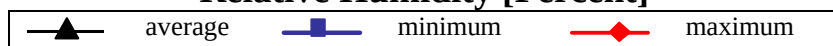


December 2003

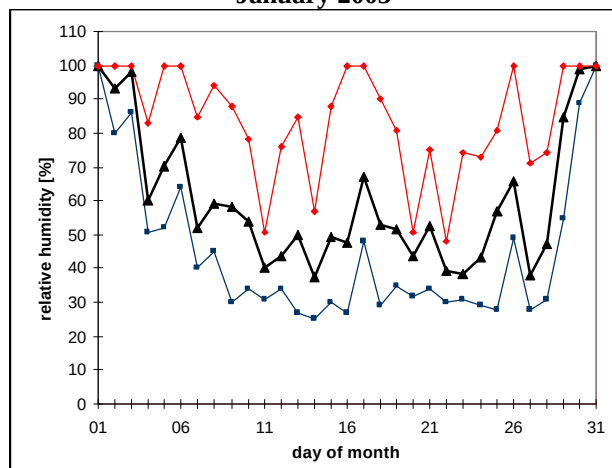


# Assateague Island National Seashore — 2003

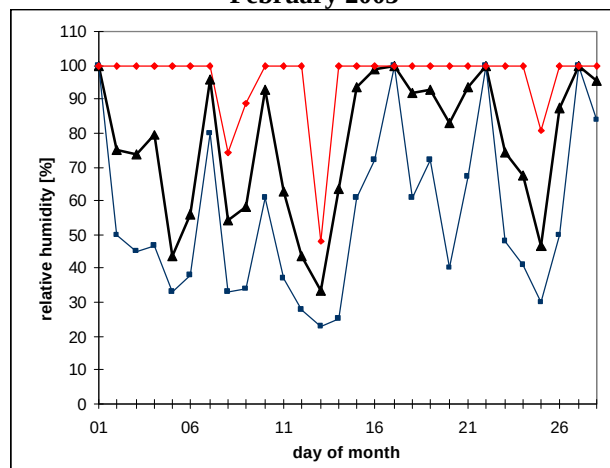
## Relative Humidity [Percent]



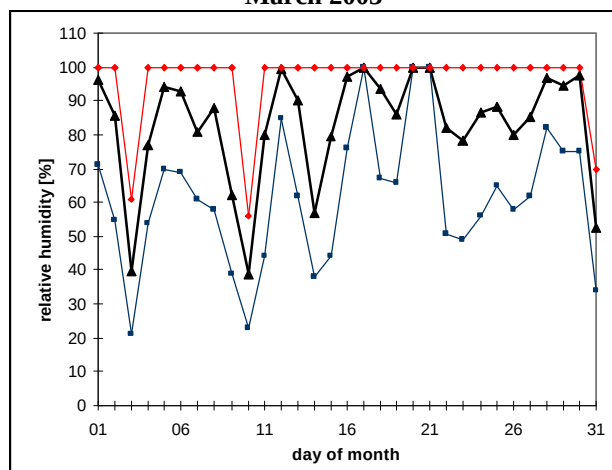
January 2003



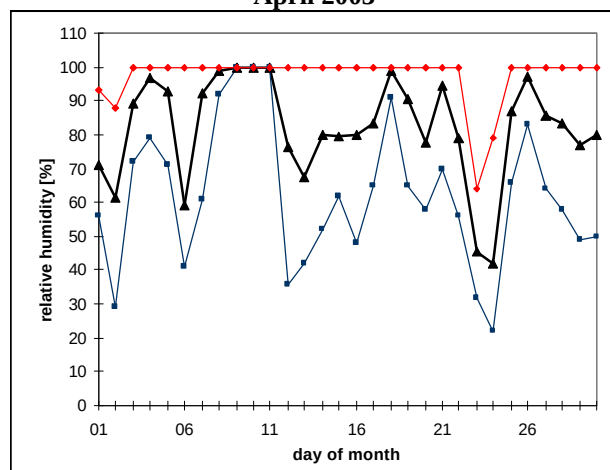
February 2003



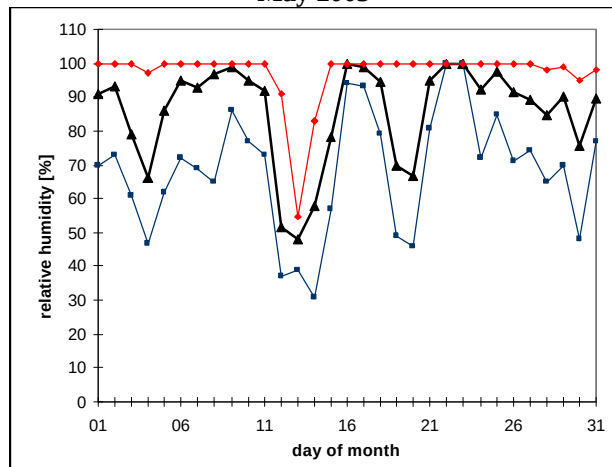
March 2003



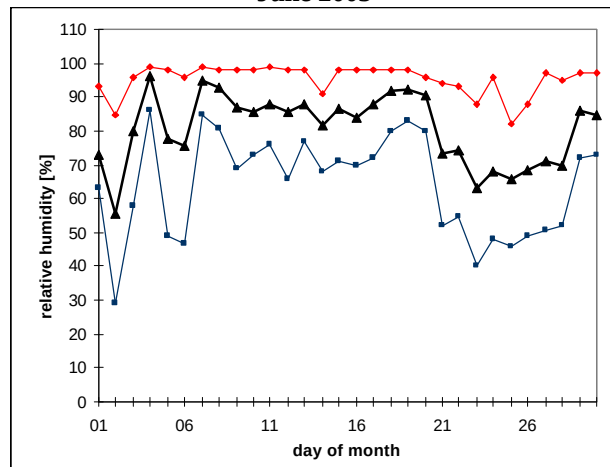
April 2003



May 2003

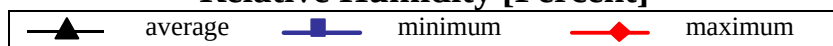


June 2003

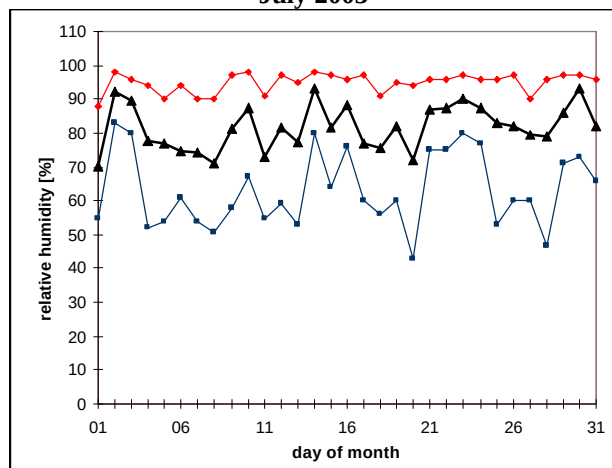


# Assateague Island National Seashore — 2003

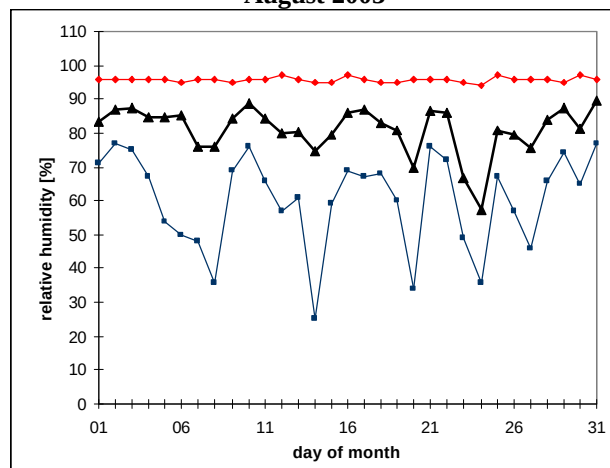
## Relative Humidity [Percent]



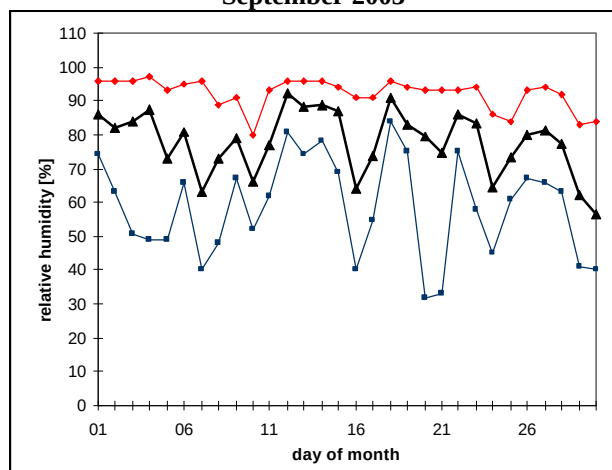
July 2003



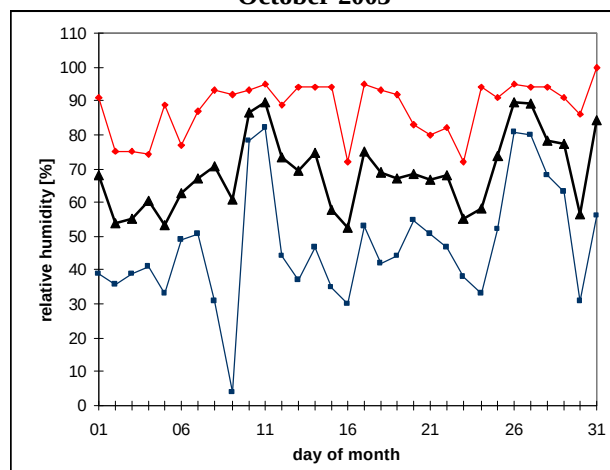
August 2003



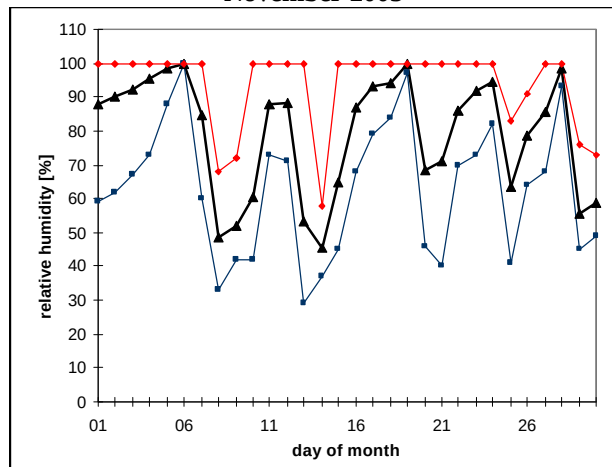
September 2003



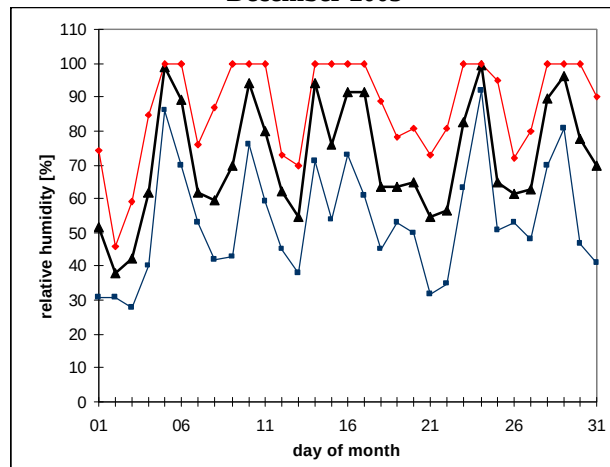
October 2003



November 2003

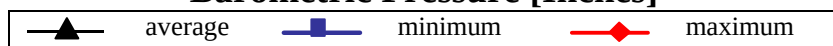


December 2003

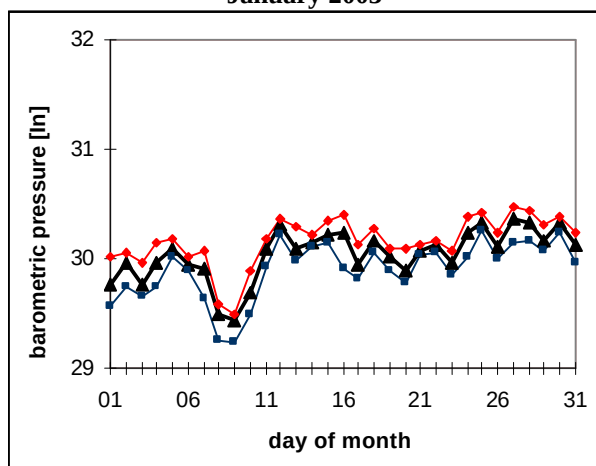


## Assateague Island National Seashore — 2003

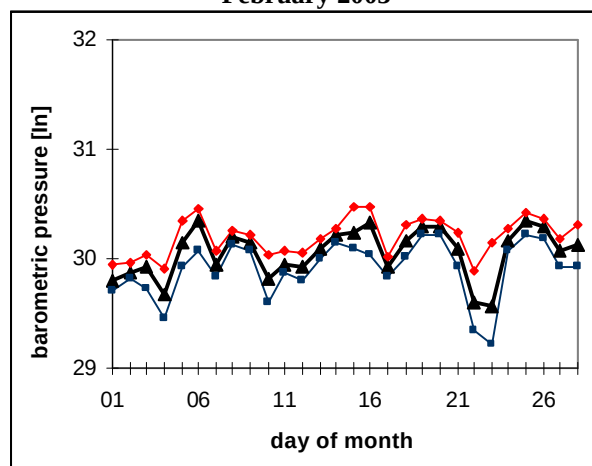
### Barometric Pressure [Inches]



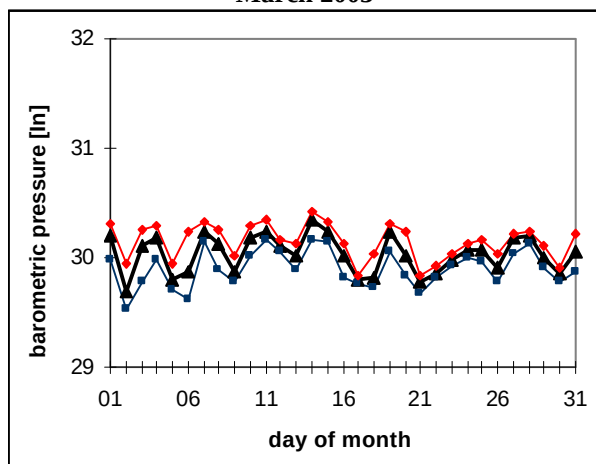
January 2003



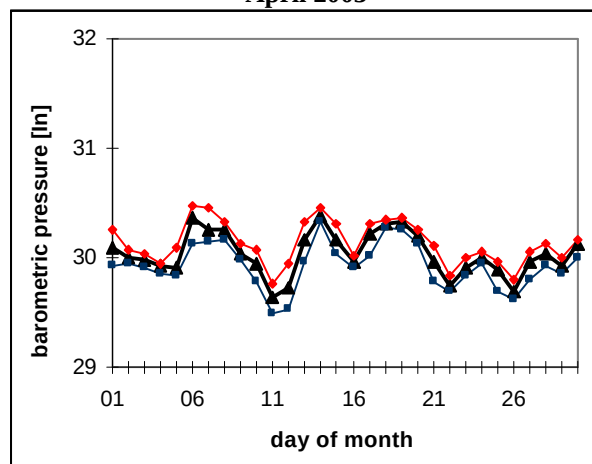
February 2003



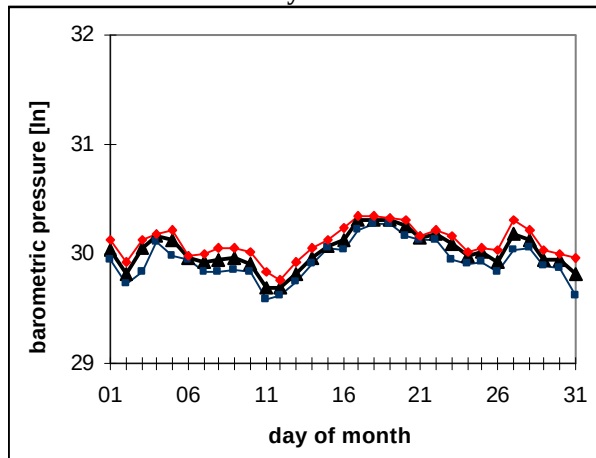
March 2003



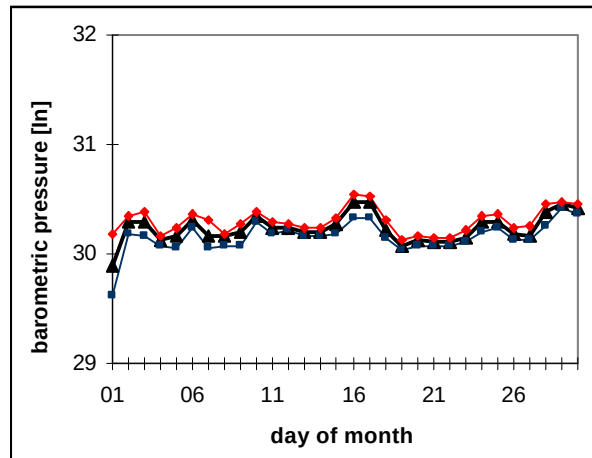
April 2003



May 2003

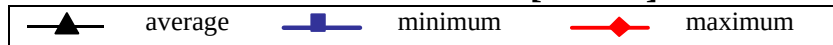


June 2003

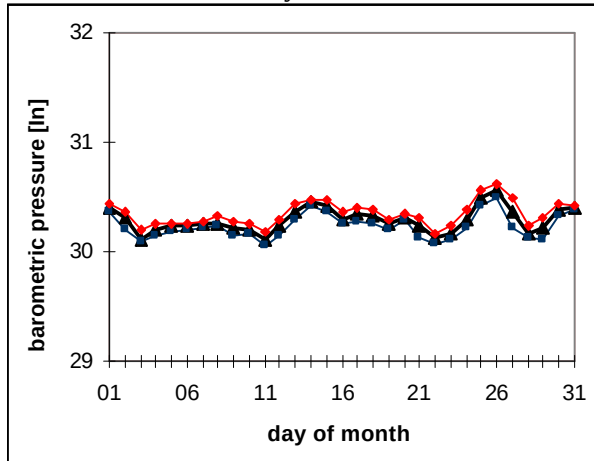


## Assateague Island National Seashore — 2003

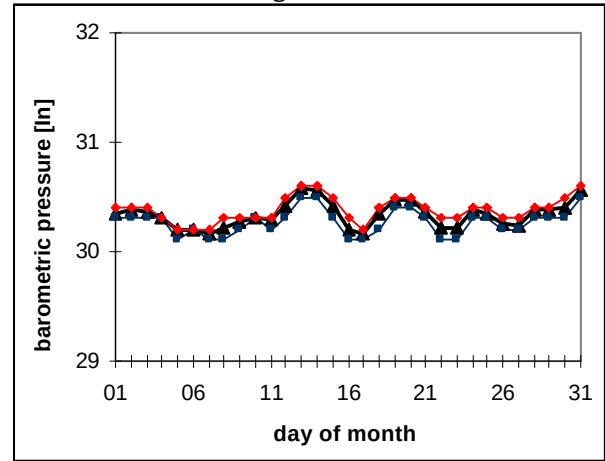
### Barometric Pressure [Inches]



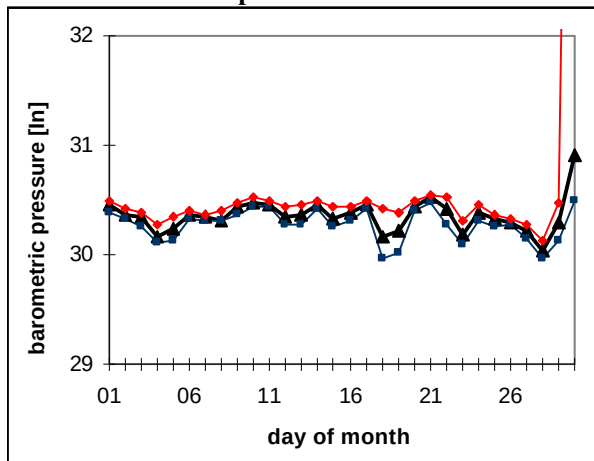
July 2003



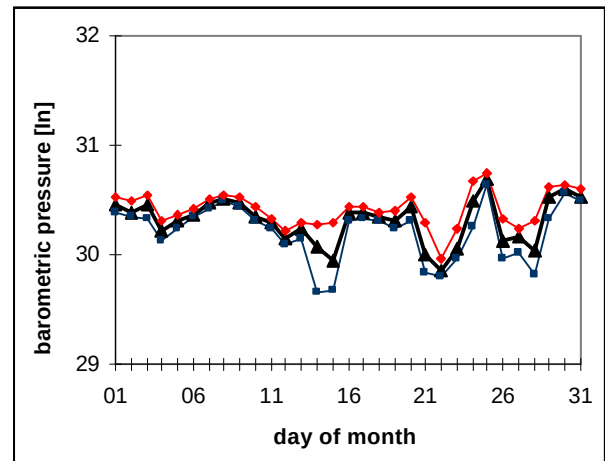
August 2003



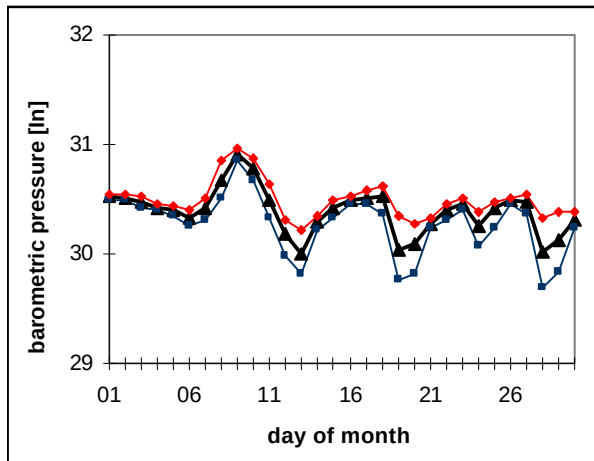
September 2003



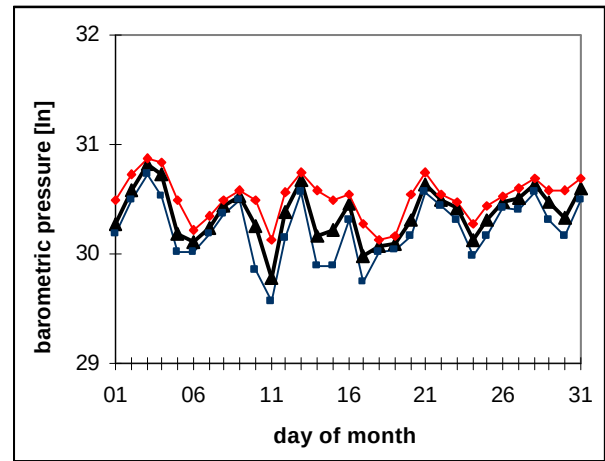
October 2003



November 2003



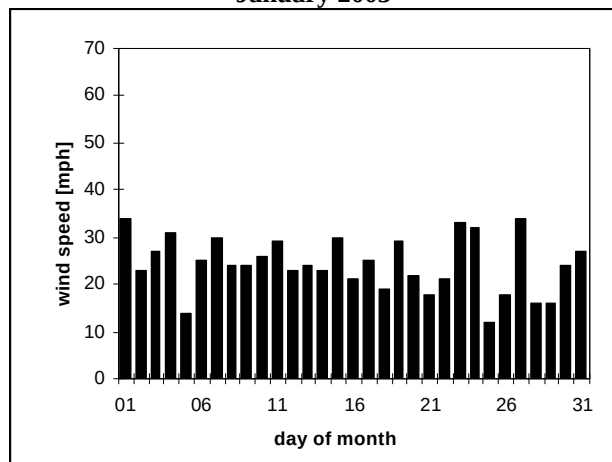
December 2003



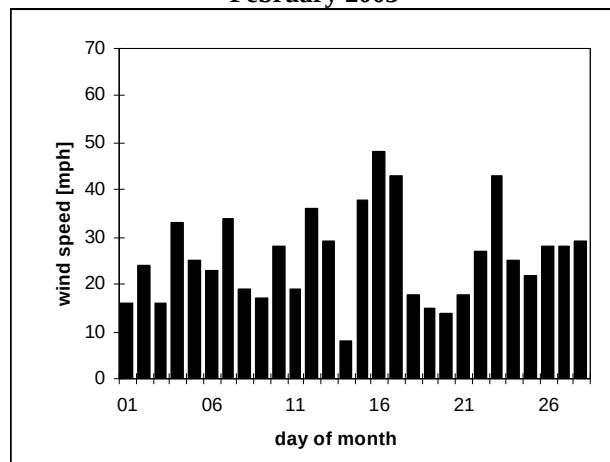
# Assateague Island National Seashore — 2003

## Maximum Wind Gust [MPH]

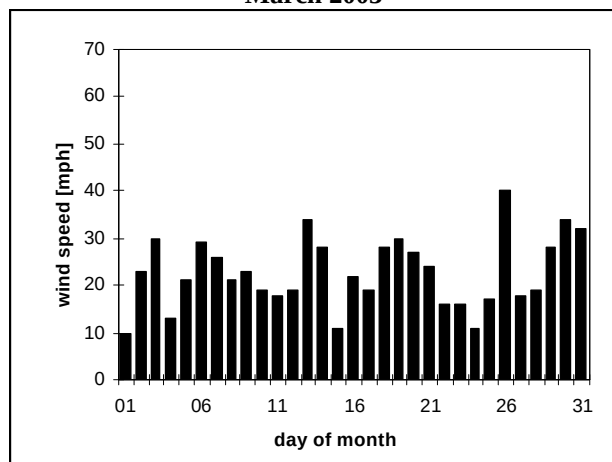
January 2003



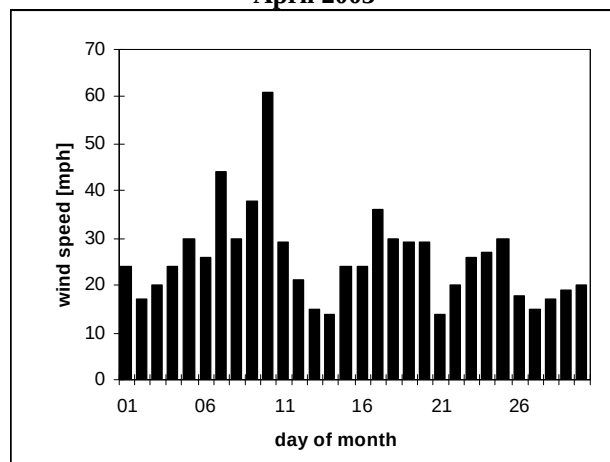
February 2003



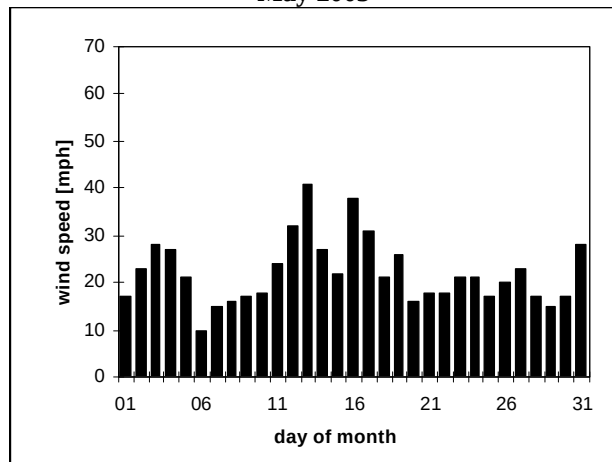
March 2003



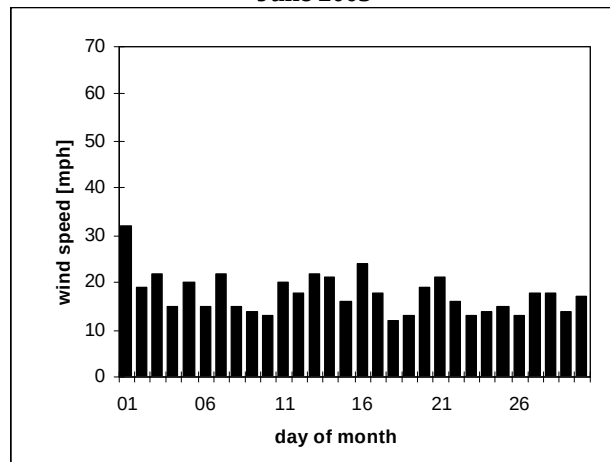
April 2003



May 2003



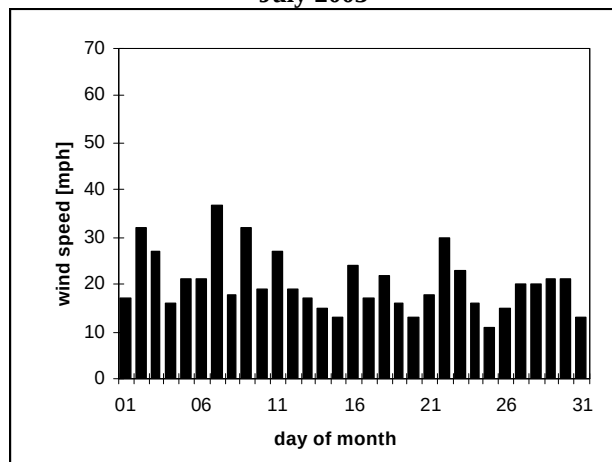
June 2003



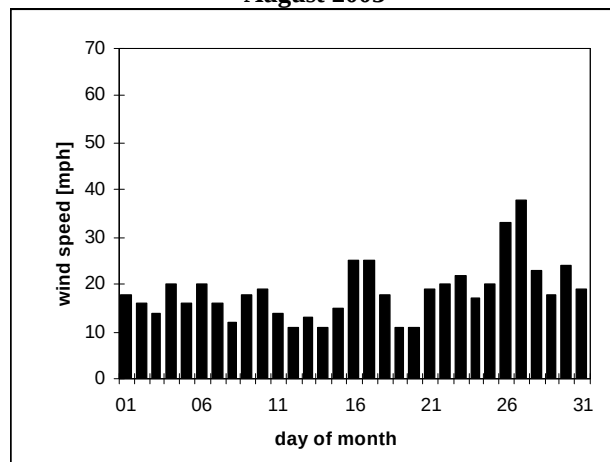
# Assateague Island National Seashore — 2003

## Maximum Wind Gust [MPH]

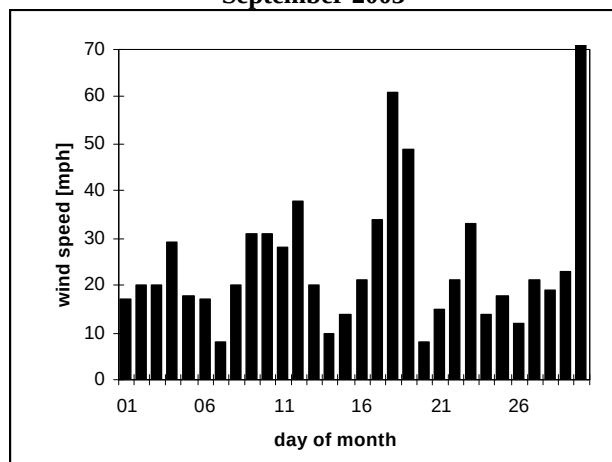
July 2003



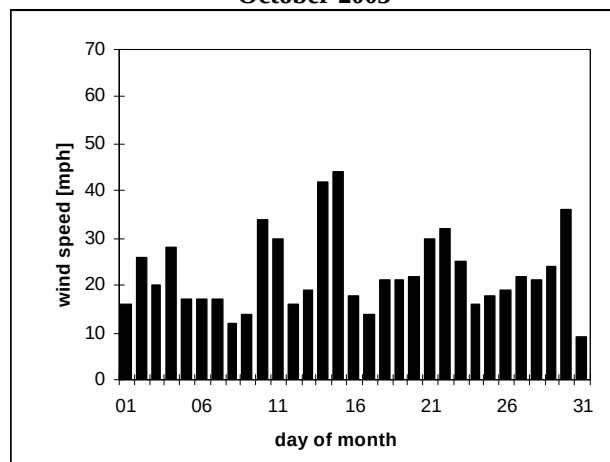
August 2003



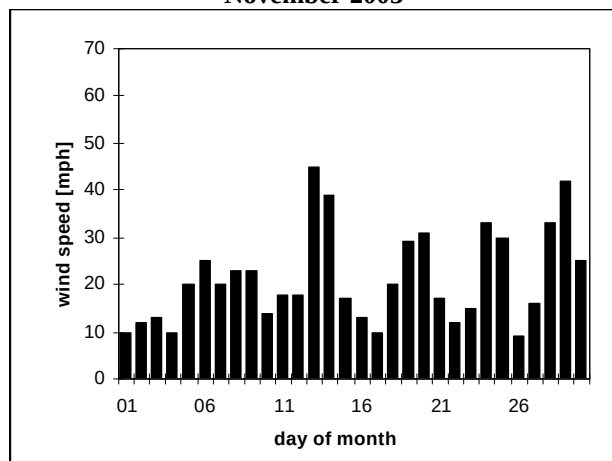
September 2003



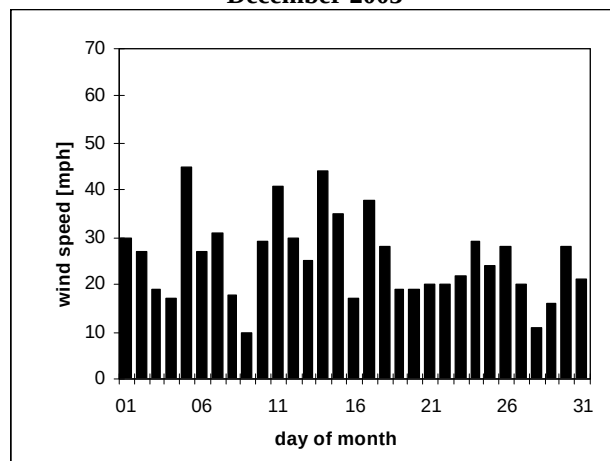
October 2003



November 2003



December 2003



## Appendix B

### Daily Summaries of RAWs Data by Month

## January 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |     | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|-----|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min | Avg                       | Max |
| 1/1/2003  | 0.53                 | 0.53                 | 51                             | 47  | 57  | 10.2                | 34  | 100                            | 100 | 100 | 29.76                           | 29.56 | 30.02 | 26.0                     | 26  | 51.5                      | 57  |
| 1/2/2003  | 0.00                 | 0.53                 | 44                             | 41  | 49  | 10.0                | 23  | 93                             | 80  | 100 | 29.97                           | 29.74 | 30.06 | 26.9                     | 26  | 44.1                      | 47  |
| 1/3/2003  | 0.02                 | 0.55                 | 47                             | 40  | 53  | 10.0                | 27  | 98                             | 86  | 100 | 29.76                           | 29.66 | 29.96 | 26.3                     | 26  | 48.0                      | 56  |
| 1/4/2003  | 0.00                 | 0.55                 | 38                             | 36  | 43  | 10.6                | 31  | 60                             | 51  | 83  | 29.96                           | 29.74 | 30.14 | 18.7                     | 13  | 38.3                      | 50  |
| 1/5/2003  | 0.00                 | 0.55                 | 36                             | 28  | 42  | 3.0                 | 14  | 70                             | 52  | 100 | 30.10                           | 30.01 | 30.19 | 16.6                     | 14  | 35.0                      | 44  |
| 1/6/2003  | 0.00                 | 0.55                 | 37                             | 32  | 40  | 4.7                 | 25  | 78                             | 64  | 100 | 29.94                           | 29.90 | 30.01 | 19.7                     | 16  | 37.0                      | 43  |
| 1/7/2003  | 0.00                 | 0.55                 | 33                             | 29  | 38  | 11.2                | 30  | 52                             | 40  | 85  | 29.91                           | 29.63 | 30.07 | 13.8                     | 11  | 35.0                      | 43  |
| 1/8/2003  | 0.00                 | 0.55                 | 43                             | 37  | 50  | 8.3                 | 24  | 59                             | 45  | 94  | 29.49                           | 29.25 | 29.59 | 13.7                     | 11  | 42.6                      | 57  |
| 1/9/2003  | 0.00                 | 0.55                 | 49                             | 43  | 61  | 7.7                 | 24  | 58                             | 30  | 88  | 29.43                           | 29.24 | 29.50 | 13.7                     | 9   | 49.1                      | 69  |
| 1/10/2003 | 0.00                 | 0.55                 | 42                             | 35  | 50  | 5.8                 | 26  | 54                             | 34  | 78  | 29.70                           | 29.50 | 29.90 | 14.3                     | 9   | 40.8                      | 61  |
| 1/11/2003 | 0.00                 | 0.55                 | 32                             | 27  | 38  | 8.5                 | 29  | 40                             | 31  | 51  | 30.08                           | 29.93 | 30.19 | 10.0                     | 8   | 32.3                      | 49  |
| 1/12/2003 | 0.00                 | 0.55                 | 29                             | 23  | 36  | 7.3                 | 23  | 44                             | 34  | 76  | 30.31                           | 30.22 | 30.36 | 9.6                      | 8   | 29.5                      | 47  |
| 1/13/2003 | 0.00                 | 0.55                 | 34                             | 19  | 46  | 7.0                 | 24  | 50                             | 27  | 85  | 30.10                           | 29.98 | 30.29 | 10.3                     | 7   | 32.5                      | 56  |
| 1/14/2003 | 0.00                 | 0.55                 | 31                             | 27  | 38  | 6.3                 | 23  | 38                             | 25  | 57  | 30.15                           | 30.11 | 30.21 | 8.8                      | 7   | 32.9                      | 49  |
| 1/15/2003 | 0.00                 | 0.55                 | 29                             | 23  | 34  | 7.4                 | 30  | 50                             | 30  | 88  | 30.22                           | 30.15 | 30.35 | 10.3                     | 9   | 30.3                      | 45  |
| 1/16/2003 | 0.00                 | 0.55                 | 28                             | 21  | 35  | 6.0                 | 21  | 48                             | 27  | 100 | 30.23                           | 29.91 | 30.40 | 9.5                      | 8   | 30.0                      | 41  |
| 1/17/2003 | 0.00                 | 0.55                 | 27                             | 22  | 31  | 7.6                 | 25  | 67                             | 48  | 100 | 29.95                           | 29.81 | 30.13 | 13.5                     | 11  | 28.7                      | 44  |
| 1/18/2003 | 0.00                 | 0.55                 | 16                             | 6   | 26  | 5.2                 | 19  | 53                             | 29  | 90  | 30.17                           | 30.06 | 30.27 | 10.0                     | 7   | 15.2                      | 40  |
| 1/19/2003 | 0.00                 | 0.55                 | 27                             | 6   | 32  | 8.8                 | 29  | 52                             | 35  | 81  | 30.01                           | 29.90 | 30.09 | 11.6                     | 9   | 26.4                      | 45  |
| 1/20/2003 | 0.11                 | 0.66                 | 34                             | 27  | 44  | 8.8                 | 22  | 44                             | 32  | 51  | 29.90                           | 29.79 | 30.09 | 10.9                     | 9   | 34.5                      | 52  |
| 1/21/2003 | 0.00                 | 0.66                 | 24                             | 20  | 27  | 5.2                 | 18  | 53                             | 34  | 75  | 30.08                           | 30.03 | 30.13 | 11.0                     | 9   | 24.5                      | 29  |
| 1/22/2003 | 0.00                 | 0.66                 | 22                             | 16  | 29  | 7.4                 | 21  | 39                             | 30  | 48  | 30.12                           | 30.06 | 30.17 | 10.0                     | 8   | 24.3                      | 43  |
| 1/23/2003 | 0.00                 | 0.66                 | 17                             | 15  | 22  | 11.2                | 33  | 38                             | 31  | 74  | 29.96                           | 29.85 | 30.07 | 8.7                      | 8   | 18.6                      | 29  |
| 1/24/2003 | 0.00                 | 0.66                 | 22                             | 13  | 32  | 7.8                 | 32  | 43                             | 29  | 73  | 30.24                           | 30.02 | 30.38 | 8.9                      | 7   | 23.6                      | 44  |
| 1/25/2003 | 0.00                 | 0.66                 | 27                             | 17  | 37  | 4.2                 | 12  | 57                             | 28  | 81  | 30.34                           | 30.25 | 30.41 | 10.0                     | 8   | 25.4                      | 50  |
| 1/26/2003 | 0.00                 | 0.66                 | 35                             | 29  | 42  | 6.4                 | 18  | 66                             | 49  | 100 | 30.11                           | 30.00 | 30.23 | 13.6                     | 10  | 35.2                      | 49  |
| 1/27/2003 | 0.00                 | 0.66                 | 21                             | 14  | 31  | 9.9                 | 34  | 38                             | 28  | 71  | 30.37                           | 30.14 | 30.48 | 10.0                     | 8   | 22.7                      | 36  |
| 1/28/2003 | 0.00                 | 0.66                 | 27                             | 7   | 36  | 5.5                 | 16  | 47                             | 31  | 74  | 30.32                           | 30.17 | 30.44 | 9.5                      | 8   | 28.5                      | 45  |
| 1/29/2003 | 0.12                 | 0.78                 | 36                             | 32  | 42  | 4.6                 | 16  | 85                             | 55  | 100 | 30.17                           | 30.08 | 30.30 | 18.7                     | 12  | 37.9                      | 45  |
| 1/30/2003 | 0.35                 | 1.13                 | 36                             | 32  | 38  | 10.7                | 24  | 99                             | 89  | 100 | 30.32                           | 30.23 | 30.39 | 26.0                     | 25  | 36.3                      | 38  |
| 1/31/2003 | 0.03                 | 1.16                 | 38                             | 35  | 40  | 10.9                | 27  | 100                            | 100 | 100 | 30.13                           | 29.97 | 30.23 | 26.9                     | 26  | 39.3                      | 43  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM | Avg<br>FT    | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|-----------|--------------|-----------|
| <b>1.16</b>   | <b>1.16</b>    | <b>33</b>   | <b>6</b>    | <b>61</b>   | <b>7.7</b>  | <b>34</b>   | <b>60</b> | <b>25</b> | <b>100</b> | <b>30.04</b> | <b>29.24</b> | <b>30.48</b> | <b>14.43</b> | <b>7</b>  | <b>33.22</b> | <b>69</b> |

## February 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |     | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|-----|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min | Avg                       | Max |
| 2/1/2003  | 0.16                 | 1.32                 | 38                             | 36  | 43  | 5.5                 | 16  | 100                            | 100 | 100 | 29.80                           | 29.71 | 29.94 | 27.0                     | 27  | 39.3                      | 43  |
| 2/2/2003  | 0.00                 | 1.32                 | 39                             | 33  | 46  | 9.4                 | 24  | 75                             | 50  | 100 | 29.88                           | 29.81 | 29.97 | 24.1                     | 19  | 39.0                      | 54  |
| 2/3/2003  | 0.00                 | 1.32                 | 40                             | 32  | 46  | 4.4                 | 16  | 74                             | 45  | 100 | 29.92                           | 29.72 | 30.03 | 17.4                     | 11  | 41.9                      | 59  |
| 2/4/2003  | 0.07                 | 1.39                 | 44                             | 29  | 58  | 10.3                | 33  | 80                             | 47  | 100 | 29.67                           | 29.46 | 29.91 | 21.4                     | 15  | 42.5                      | 61  |
| 2/5/2003  | 0.00                 | 1.39                 | 34                             | 26  | 43  | 5.9                 | 25  | 44                             | 33  | 100 | 30.15                           | 29.92 | 30.35 | 14.0                     | 10  | 33.5                      | 54  |
| 2/6/2003  | 0.06                 | 1.45                 | 33                             | 25  | 38  | 7.5                 | 23  | 56                             | 38  | 100 | 30.34                           | 30.08 | 30.46 | 13.0                     | 10  | 34.8                      | 49  |
| 2/7/2003  | 0.58                 | 2.03                 | 34                             | 31  | 36  | 10.1                | 34  | 96                             | 80  | 100 | 29.94                           | 29.83 | 30.08 | 26.5                     | 24  | 34.0                      | 37  |
| 2/8/2003  | 0.00                 | 2.03                 | 31                             | 26  | 38  | 6.3                 | 19  | 55                             | 33  | 74  | 30.20                           | 30.12 | 30.26 | 20.9                     | 14  | 32.6                      | 50  |
| 2/9/2003  | 0.00                 | 2.03                 | 34                             | 25  | 42  | 5.5                 | 17  | 58                             | 34  | 89  | 30.15                           | 30.08 | 30.21 | 15.5                     | 11  | 35.1                      | 57  |
| 2/10/2003 | 0.29                 | 2.32                 | 36                             | 33  | 39  | 7.4                 | 28  | 93                             | 61  | 100 | 29.81                           | 29.60 | 30.04 | 23.4                     | 16  | 35.8                      | 41  |
| 2/11/2003 | 0.00                 | 2.32                 | 36                             | 30  | 40  | 7.9                 | 19  | 63                             | 37  | 100 | 29.95                           | 29.88 | 30.07 | 23.9                     | 19  | 36.5                      | 50  |
| 2/12/2003 | 0.00                 | 2.32                 | 36                             | 26  | 47  | 8.7                 | 36  | 44                             | 28  | 100 | 29.93                           | 29.80 | 30.06 | 15.2                     | 10  | 36.6                      | 59  |
| 2/13/2003 | 0.00                 | 2.32                 | 32                             | 24  | 41  | 7.4                 | 29  | 33                             | 23  | 48  | 30.09                           | 30.00 | 30.18 | 10.5                     | 9   | 32.2                      | 50  |
| 2/14/2003 | 0.06                 | 2.38                 | 34                             | 15  | 44  | 2.8                 | 8   | 64                             | 25  | 100 | 30.22                           | 30.15 | 30.28 | 12.4                     | 9   | 34.3                      | 57  |
| 2/15/2003 | 0.60                 | 2.98                 | 34                             | 29  | 41  | 15.2                | 38  | 94                             | 61  | 100 | 30.24                           | 30.09 | 30.47 | 26.6                     | 25  | 34.8                      | 42  |
| 2/16/2003 | 1.60                 | 4.58                 | 33                             | 27  | 39  | 26.7                | 48  | 99                             | 72  | 100 | 30.33                           | 30.04 | 30.47 | 26.7                     | 26  | 33.2                      | 38  |
| 2/17/2003 | 0.94                 | 5.52                 | 37                             | 32  | 41  | 15.1                | 43  | 100                            | 100 | 100 | 29.93                           | 29.84 | 30.01 | 27.0                     | 27  | 37.6                      | 42  |
| 2/18/2003 | 0.00                 | 5.52                 | 33                             | 30  | 41  | 6.5                 | 18  | 92                             | 61  | 100 | 30.16                           | 30.01 | 30.30 | 27.0                     | 27  | 33.3                      | 44  |
| 2/19/2003 | 0.00                 | 5.52                 | 39                             | 30  | 44  | 5.4                 | 15  | 93                             | 72  | 100 | 30.29                           | 30.22 | 30.37 | 23.4                     | 17  | 40.6                      | 53  |
| 2/20/2003 | 0.00                 | 5.52                 | 40                             | 29  | 52  | 3.2                 | 14  | 83                             | 40  | 100 | 30.29                           | 30.22 | 30.35 | 18.2                     | 12  | 42.3                      | 65  |
| 2/21/2003 | 0.31                 | 5.83                 | 41                             | 36  | 46  | 5.2                 | 18  | 93                             | 67  | 100 | 30.10                           | 29.92 | 30.23 | 21.4                     | 14  | 42.8                      | 52  |
| 2/22/2003 | 0.75                 | 6.58                 | 45                             | 39  | 56  | 9.6                 | 27  | 100                            | 100 | 100 | 29.60                           | 29.34 | 29.89 | 26.8                     | 26  | 46.0                      | 56  |
| 2/23/2003 | 0.30                 | 6.88                 | 44                             | 36  | 58  | 15.3                | 43  | 74                             | 48  | 100 | 29.57                           | 29.21 | 30.15 | 24.4                     | 17  | 43.2                      | 54  |
| 2/24/2003 | 0.00                 | 6.88                 | 41                             | 32  | 48  | 7.3                 | 25  | 68                             | 41  | 100 | 30.17                           | 30.07 | 30.27 | 16.0                     | 12  | 41.8                      | 59  |
| 2/25/2003 | 0.00                 | 6.88                 | 36                             | 30  | 43  | 9.2                 | 22  | 47                             | 30  | 81  | 30.35                           | 30.22 | 30.41 | 13.4                     | 10  | 39.0                      | 56  |
| 2/26/2003 | 0.13                 | 7.01                 | 33                             | 31  | 34  | 16.1                | 28  | 87                             | 50  | 100 | 30.28                           | 30.18 | 30.36 | 18.1                     | 12  | 34.1                      | 36  |
| 2/27/2003 | 0.53                 | 7.54                 | 37                             | 33  | 40  | 14.2                | 28  | 100                            | 100 | 100 | 30.08                           | 29.93 | 30.18 | 27.0                     | 26  | 37.6                      | 41  |
| 2/28/2003 | 0.05                 | 7.59                 | 35                             | 33  | 39  | 9.7                 | 29  | 95                             | 84  | 100 | 30.13                           | 29.93 | 30.30 | 26.8                     | 25  | 36.5                      | 42  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM | Avg<br>FT    | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|-----------|--------------|-----------|
| <b>6.43</b>   | <b>7.59</b>    | <b>37</b>   | <b>15</b>   | <b>58</b>   | <b>9.2</b>  | <b>48</b>   | <b>77</b> | <b>23</b> | <b>100</b> | <b>30.05</b> | <b>29.21</b> | <b>30.47</b> | <b>20.99</b> | <b>9</b>  | <b>37.53</b> | <b>65</b> |

## March 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |     | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|-----|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min | Avg                       | Max |
| 3/1/2003  | 0.00                 | 7.59                 | 39                             | 33  | 46  | 4.2                 | 10  | 97                             | 71  | 100 | 30.20                           | 29.99 | 30.30 | 21.8                     | 15  | 41.8                      | 59  |
| 3/2/2003  | 0.20                 | 7.79                 | 46                             | 39  | 54  | 7.1                 | 23  | 86                             | 55  | 100 | 29.69                           | 29.52 | 29.94 | 25.6                     | 21  | 46.1                      | 57  |
| 3/3/2003  | 0.00                 | 7.79                 | 32                             | 22  | 41  | 8.3                 | 30  | 40                             | 21  | 61  | 30.11                           | 29.79 | 30.25 | 13.7                     | 10  | 34.8                      | 51  |
| 3/4/2003  | 0.05                 | 7.84                 | 37                             | 19  | 47  | 5.4                 | 13  | 77                             | 54  | 100 | 30.18                           | 29.99 | 30.29 | 14.8                     | 10  | 40.0                      | 61  |
| 3/5/2003  | 1.14                 | 8.98                 | 51                             | 41  | 64  | 5.5                 | 21  | 94                             | 70  | 100 | 29.80                           | 29.71 | 29.94 | 24.7                     | 19  | 52.3                      | 71  |
| 3/6/2003  | 0.33                 | 9.31                 | 41                             | 31  | 55  | 9.3                 | 29  | 93                             | 69  | 100 | 29.86                           | 29.61 | 30.23 | 26.7                     | 26  | 41.3                      | 56  |
| 3/7/2003  | 0.01                 | 9.32                 | 35                             | 29  | 41  | 10.3                | 26  | 81                             | 61  | 100 | 30.23                           | 30.15 | 30.33 | 24.3                     | 16  | 36.5                      | 48  |
| 3/8/2003  | 0.00                 | 9.32                 | 39                             | 26  | 45  | 6.7                 | 21  | 88                             | 58  | 100 | 30.14                           | 29.90 | 30.25 | 21.0                     | 13  | 42.3                      | 61  |
| 3/9/2003  | 0.00                 | 9.32                 | 49                             | 34  | 69  | 8.5                 | 23  | 62                             | 39  | 100 | 29.86                           | 29.78 | 30.01 | 16.9                     | 11  | 51.2                      | 83  |
| 3/10/2003 | 0.00                 | 9.32                 | 33                             | 24  | 44  | 6.2                 | 19  | 39                             | 23  | 56  | 30.18                           | 30.02 | 30.29 | 10.5                     | 8   | 34.3                      | 58  |
| 3/11/2003 | 0.04                 | 9.36                 | 35                             | 23  | 38  | 7.0                 | 18  | 80                             | 44  | 100 | 30.24                           | 30.16 | 30.34 | 18.1                     | 12  | 34.4                      | 42  |
| 3/12/2003 | 0.00                 | 9.36                 | 40                             | 37  | 47  | 6.3                 | 19  | 99                             | 85  | 100 | 30.12                           | 30.06 | 30.17 | 24.8                     | 17  | 43.0                      | 57  |
| 3/13/2003 | 0.15                 | 9.51                 | 45                             | 37  | 56  | 8.5                 | 34  | 90                             | 62  | 100 | 30.01                           | 29.89 | 30.13 | 19.6                     | 11  | 50.1                      | 73  |
| 3/14/2003 | 0.00                 | 9.51                 | 36                             | 33  | 39  | 11.0                | 28  | 57                             | 38  | 100 | 30.34                           | 30.16 | 30.41 | 16.8                     | 11  | 39.3                      | 56  |
| 3/15/2003 | 0.00                 | 9.51                 | 43                             | 27  | 52  | 3.5                 | 11  | 80                             | 44  | 100 | 30.24                           | 30.15 | 30.32 | 13.8                     | 10  | 45.4                      | 71  |
| 3/16/2003 | 0.76                 | 10.27                | 47                             | 39  | 54  | 7.5                 | 22  | 97                             | 76  | 100 | 30.01                           | 29.81 | 30.13 | 21.6                     | 13  | 48.0                      | 66  |
| 3/17/2003 | 0.01                 | 10.28                | 50                             | 45  | 60  | 6.0                 | 19  | 100                            | 100 | 100 | 29.80                           | 29.77 | 29.83 | 26.0                     | 26  | 52.0                      | 63  |
| 3/18/2003 | 0.00                 | 10.28                | 48                             | 41  | 59  | 9.0                 | 28  | 94                             | 67  | 100 | 29.83                           | 29.72 | 30.03 | 23.3                     | 16  | 50.8                      | 65  |
| 3/19/2003 | 0.00                 | 10.28                | 43                             | 40  | 49  | 16.2                | 30  | 86                             | 66  | 100 | 30.23                           | 30.05 | 30.31 | 19.9                     | 13  | 46.1                      | 61  |
| 3/20/2003 | 0.34                 | 10.62                | 46                             | 41  | 50  | 12.5                | 27  | 100                            | 100 | 100 | 30.02                           | 29.84 | 30.23 | 24.7                     | 21  | 47.4                      | 50  |
| 3/21/2003 | 0.01                 | 10.63                | 51                             | 45  | 58  | 7.2                 | 24  | 100                            | 100 | 100 | 29.78                           | 29.68 | 29.84 | 26.1                     | 26  | 52.1                      | 61  |
| 3/22/2003 | 0.00                 | 10.63                | 55                             | 48  | 69  | 5.2                 | 16  | 82                             | 51  | 100 | 29.86                           | 29.81 | 29.93 | 21.5                     | 14  | 57.4                      | 79  |
| 3/23/2003 | 0.00                 | 10.63                | 50                             | 43  | 57  | 4.4                 | 16  | 78                             | 49  | 100 | 29.99                           | 29.93 | 30.04 | 16.5                     | 11  | 52.2                      | 74  |
| 3/24/2003 | 0.00                 | 10.63                | 49                             | 41  | 58  | 4.3                 | 11  | 87                             | 56  | 100 | 30.07                           | 30.00 | 30.13 | 18.0                     | 11  | 51.3                      | 76  |
| 3/25/2003 | 0.00                 | 10.63                | 49                             | 34  | 57  | 6.0                 | 17  | 88                             | 65  | 100 | 30.07                           | 29.97 | 30.17 | 18.1                     | 11  | 51.2                      | 75  |
| 3/26/2003 | 0.19                 | 10.82                | 53                             | 47  | 59  | 10.4                | 40  | 80                             | 58  | 100 | 29.91                           | 29.79 | 30.03 | 17.6                     | 10  | 57.3                      | 74  |
| 3/27/2003 | 0.00                 | 10.82                | 49                             | 44  | 54  | 6.6                 | 18  | 85                             | 62  | 100 | 30.17                           | 30.03 | 30.22 | 21.8                     | 13  | 52.2                      | 72  |
| 3/28/2003 | 0.00                 | 10.82                | 50                             | 45  | 56  | 10.4                | 19  | 97                             | 82  | 100 | 30.19                           | 30.13 | 30.24 | 21.8                     | 14  | 52.7                      | 69  |
| 3/29/2003 | 2.64                 | 13.46                | 55                             | 48  | 61  | 9.8                 | 28  | 95                             | 75  | 100 | 30.00                           | 29.91 | 30.10 | 21.5                     | 11  | 59.8                      | 78  |
| 3/30/2003 | 0.58                 | 14.04                | 43                             | 36  | 55  | 12.3                | 34  | 98                             | 75  | 100 | 29.86                           | 29.79 | 29.91 | 26.7                     | 26  | 43.1                      | 54  |
| 3/31/2003 | 0.00                 | 14.04                | 40                             | 34  | 47  | 11.3                | 32  | 53                             | 34  | 70  | 30.06                           | 29.87 | 30.21 | 20.8                     | 12  | 41.7                      | 56  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM | Avg<br>FT    | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|-----------|--------------|-----------|
| <b>6.45</b>   | <b>14.04</b>   | <b>44</b>   | <b>19</b>   | <b>69</b>   | <b>8.0</b>  | <b>40</b>   | <b>83</b> | <b>21</b> | <b>100</b> | <b>30.03</b> | <b>29.52</b> | <b>30.41</b> | <b>20.61</b> | <b>8</b>  | <b>46.71</b> | <b>83</b> |

## April 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |     | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|-----|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min | Avg                       | Max |
| 4/1/2003  | 0.00                 | 14.04                | 47                             | 32  | 55  | 9.2                 | 24  | 71                             | 56  | 93  | 30.08                           | 29.93 | 30.25 | 16.7                     | 12  | 48.9                      | 66  |
| 4/2/2003  | 0.00                 | 14.04                | 60                             | 50  | 80  | 8.3                 | 17  | 62                             | 29  | 88  | 30.00                           | 29.94 | 30.08 | 13.9                     | 9   | 63.4                      | 95  |
| 4/3/2003  | 0.00                 | 14.04                | 48                             | 43  | 58  | 9.3                 | 20  | 89                             | 72  | 100 | 29.98                           | 29.91 | 30.04 | 17.5                     | 11  | 51.9                      | 64  |
| 4/4/2003  | 0.00                 | 14.04                | 46                             | 40  | 52  | 10.5                | 24  | 97                             | 79  | 100 | 29.92                           | 29.85 | 29.94 | 21.2                     | 13  | 49.6                      | 61  |
| 4/5/2003  | 0.00                 | 14.04                | 49                             | 44  | 56  | 5.6                 | 30  | 93                             | 71  | 100 | 29.91                           | 29.83 | 30.09 | 19.4                     | 12  | 53.4                      | 69  |
| 4/6/2003  | 0.00                 | 14.04                | 47                             | 43  | 52  | 11.0                | 26  | 59                             | 41  | 100 | 30.36                           | 30.12 | 30.48 | 13.9                     | 9   | 50.7                      | 68  |
| 4/7/2003  | 1.50                 | 15.54                | 44                             | 41  | 45  | 22.0                | 44  | 92                             | 61  | 100 | 30.26                           | 30.15 | 30.45 | 23.5                     | 13  | 43.6                      | 45  |
| 4/8/2003  | 0.13                 | 15.67                | 42                             | 40  | 44  | 14.7                | 30  | 99                             | 92  | 100 | 30.25                           | 30.16 | 30.32 | 27.0                     | 27  | 42.5                      | 46  |
| 4/9/2003  | 1.01                 | 16.68                | 42                             | 40  | 43  | 17.0                | 38  | 100                            | 100 | 100 | 30.04                           | 29.98 | 30.13 | 27.0                     | 27  | 42.2                      | 45  |
| 4/10/2003 | 1.27                 | 17.95                | 43                             | 41  | 44  | 25.9                | 61  | 100                            | 100 | 100 | 29.95                           | 29.78 | 30.08 | 27.0                     | 27  | 43.1                      | 45  |
| 4/11/2003 | 0.79                 | 18.74                | 46                             | 44  | 49  | 11.3                | 29  | 100                            | 100 | 100 | 29.64                           | 29.50 | 29.77 | 26.5                     | 26  | 47.5                      | 52  |
| 4/12/2003 | 0.26                 | 19.00                | 53                             | 45  | 67  | 5.3                 | 21  | 77                             | 36  | 100 | 29.73                           | 29.52 | 29.94 | 24.2                     | 17  | 51.5                      | 72  |
| 4/13/2003 | 0.00                 | 19.00                | 49                             | 40  | 59  | 6.0                 | 15  | 68                             | 42  | 100 | 30.16                           | 29.97 | 30.32 | 17.5                     | 12  | 52.1                      | 74  |
| 4/14/2003 | 0.00                 | 19.00                | 50                             | 39  | 57  | 5.8                 | 14  | 80                             | 52  | 100 | 30.38                           | 30.32 | 30.45 | 18.5                     | 12  | 52.7                      | 75  |
| 4/15/2003 | 0.00                 | 19.00                | 54                             | 46  | 61  | 10.8                | 24  | 79                             | 62  | 100 | 30.17                           | 30.03 | 30.30 | 17.5                     | 11  | 58.5                      | 77  |
| 4/16/2003 | 0.00                 | 19.00                | 59                             | 50  | 76  | 8.5                 | 24  | 80                             | 48  | 100 | 29.97                           | 29.91 | 30.02 | 16.8                     | 10  | 63.5                      | 89  |
| 4/17/2003 | 0.00                 | 19.00                | 45                             | 42  | 52  | 20.8                | 36  | 84                             | 65  | 100 | 30.21                           | 30.01 | 30.30 | 18.5                     | 13  | 46.8                      | 52  |
| 4/18/2003 | 0.04                 | 19.04                | 46                             | 43  | 49  | 15.2                | 30  | 99                             | 91  | 100 | 30.32                           | 30.27 | 30.35 | 25.7                     | 21  | 47.8                      | 54  |
| 4/19/2003 | 0.00                 | 19.04                | 46                             | 42  | 53  | 12.7                | 29  | 91                             | 65  | 100 | 30.33                           | 30.26 | 30.37 | 21.3                     | 13  | 49.4                      | 66  |
| 4/20/2003 | 0.00                 | 19.04                | 49                             | 43  | 56  | 11.4                | 29  | 78                             | 58  | 100 | 30.21                           | 30.13 | 30.26 | 16.7                     | 11  | 52.4                      | 70  |
| 4/21/2003 | 0.00                 | 19.04                | 49                             | 45  | 57  | 4.8                 | 14  | 94                             | 70  | 100 | 29.96                           | 29.78 | 30.11 | 18.8                     | 11  | 54.4                      | 73  |
| 4/22/2003 | 0.00                 | 19.04                | 57                             | 48  | 63  | 5.1                 | 20  | 79                             | 56  | 100 | 29.75                           | 29.70 | 29.83 | 17.2                     | 10  | 60.7                      | 81  |
| 4/23/2003 | 0.00                 | 19.04                | 54                             | 42  | 62  | 9.3                 | 26  | 46                             | 32  | 64  | 29.91                           | 29.84 | 30.00 | 10.5                     | 8   | 57.3                      | 75  |
| 4/24/2003 | 0.00                 | 19.04                | 54                             | 42  | 66  | 7.7                 | 27  | 42                             | 22  | 79  | 30.00                           | 29.95 | 30.05 | 9.0                      | 6   | 57.2                      | 82  |
| 4/25/2003 | 0.20                 | 19.24                | 52                             | 47  | 60  | 10.1                | 30  | 87                             | 66  | 100 | 29.89                           | 29.69 | 29.97 | 17.3                     | 10  | 54.8                      | 72  |
| 4/26/2003 | 0.04                 | 19.28                | 57                             | 50  | 64  | 5.9                 | 18  | 97                             | 83  | 100 | 29.70                           | 29.62 | 29.80 | 25.8                     | 24  | 58.2                      | 66  |
| 4/27/2003 | 0.00                 | 19.28                | 57                             | 48  | 66  | 5.1                 | 15  | 86                             | 64  | 100 | 29.97                           | 29.80 | 30.06 | 20.7                     | 12  | 60.7                      | 86  |
| 4/28/2003 | 0.00                 | 19.28                | 57                             | 48  | 70  | 7.2                 | 17  | 83                             | 58  | 100 | 30.04                           | 29.93 | 30.13 | 18.5                     | 11  | 62.4                      | 85  |
| 4/29/2003 | 0.00                 | 19.28                | 61                             | 51  | 77  | 5.7                 | 19  | 77                             | 49  | 100 | 29.93                           | 29.86 | 30.00 | 15.5                     | 9   | 63.7                      | 91  |
| 4/30/2003 | 0.00                 | 19.28                | 57                             | 51  | 62  | 7.2                 | 20  | 80                             | 50  | 100 | 30.12                           | 30.00 | 30.17 | 15.6                     | 9   | 61.3                      | 81  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP   | Max<br>BP    | Avg<br>FM    | Min<br>FM | Avg<br>FT   | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|-------------|--------------|--------------|-----------|-------------|-----------|
| <b>5.24</b>   | <b>19.28</b>   | <b>51</b>   | <b>32</b>   | <b>80</b>   | <b>10.3</b> | <b>61</b>   | <b>82</b> | <b>22</b> | <b>100</b> | <b>30.04</b> | <b>29.5</b> | <b>30.48</b> | <b>19.30</b> | <b>6</b>  | <b>53.4</b> | <b>95</b> |

## May 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 5/1/2003  | 0.00                 | 19.28                | 59                             | 50  | 67  | 7.2                 | 17  | 91                             | 70  | 100 | 30.05                           | 29.94 | 30.13 | 17.6                     | 10   | 64.6                      | 84  |
| 5/2/2003  | 0.00                 | 19.28                | 60                             | 54  | 66  | 3.9                 | 23  | 93                             | 73  | 100 | 29.81                           | 29.72 | 29.92 | 20.2                     | 13   | 63.4                      | 73  |
| 5/3/2003  | 0.00                 | 19.28                | 53                             | 48  | 62  | 11.7                | 28  | 79                             | 61  | 100 | 30.05                           | 29.84 | 30.13 | 17.8                     | 11   | 55.2                      | 71  |
| 5/4/2003  | 0.00                 | 19.28                | 51                             | 40  | 59  | 9.8                 | 27  | 66                             | 47  | 97  | 30.17                           | 30.11 | 30.19 | 14.0                     | 9    | 52.6                      | 74  |
| 5/5/2003  | 0.02                 | 19.30                | 51                             | 38  | 55  | 7.7                 | 21  | 86                             | 62  | 100 | 30.13                           | 29.98 | 30.22 | 18.4                     | 12   | 51.5                      | 63  |
| 5/6/2003  | 0.02                 | 19.32                | 57                             | 52  | 68  | 3.5                 | 10  | 95                             | 72  | 100 | 29.97                           | 29.94 | 29.99 | 22.6                     | 14   | 60.0                      | 78  |
| 5/7/2003  | 0.33                 | 19.65                | 59                             | 52  | 67  | 4.9                 | 15  | 93                             | 69  | 100 | 29.93                           | 29.83 | 30.00 | 19.9                     | 11   | 64.9                      | 84  |
| 5/8/2003  | 0.07                 | 19.72                | 61                             | 52  | 76  | 6.1                 | 16  | 97                             | 65  | 100 | 29.95                           | 29.84 | 30.06 | 25.6                     | 25   | 63.5                      | 81  |
| 5/9/2003  | 0.03                 | 19.75                | 54                             | 51  | 60  | 6.4                 | 17  | 99                             | 86  | 100 | 29.97                           | 29.85 | 30.05 | 25.8                     | 25   | 56.8                      | 67  |
| 5/10/2003 | 0.02                 | 19.77                | 61                             | 53  | 72  | 4.5                 | 18  | 95                             | 77  | 100 | 29.91                           | 29.83 | 30.01 | 24.2                     | 19   | 63.6                      | 78  |
| 5/11/2003 | 0.31                 | 20.08                | 64                             | 56  | 74  | 8.5                 | 24  | 92                             | 73  | 100 | 29.69                           | 29.58 | 29.83 | 23.5                     | 18   | 67.4                      | 80  |
| 5/12/2003 | 0.00                 | 20.08                | 70                             | 62  | 77  | 11.1                | 32  | 52                             | 37  | 91  | 29.69                           | 29.61 | 29.76 | 14.3                     | 9    | 72.9                      | 92  |
| 5/13/2003 | 0.00                 | 20.08                | 63                             | 58  | 68  | 11.7                | 41  | 48                             | 39  | 55  | 29.82                           | 29.75 | 29.92 | 10.6                     | 9    | 64.5                      | 75  |
| 5/14/2003 | 0.00                 | 20.08                | 62                             | 54  | 74  | 9.0                 | 27  | 58                             | 31  | 83  | 29.97                           | 29.91 | 30.05 | 11.1                     | 8    | 66.0                      | 90  |
| 5/15/2003 | 0.00                 | 20.08                | 60                             | 54  | 67  | 11.7                | 22  | 78                             | 57  | 100 | 30.08                           | 30.05 | 30.12 | 14.8                     | 8    | 65.9                      | 87  |
| 5/16/2003 | 1.26                 | 21.34                | 55                             | 51  | 58  | 17.4                | 38  | 100                            | 94  | 100 | 30.14                           | 30.03 | 30.23 | 25.8                     | 24   | 55.4                      | 58  |
| 5/17/2003 | 0.05                 | 21.39                | 50                             | 48  | 52  | 16.4                | 31  | 99                             | 93  | 100 | 30.31                           | 30.21 | 30.34 | 26.0                     | 26   | 50.9                      | 55  |
| 5/18/2003 | 0.14                 | 21.53                | 50                             | 47  | 54  | 10.7                | 21  | 95                             | 79  | 100 | 30.30                           | 30.27 | 30.35 | 26.0                     | 26   | 51.0                      | 57  |
| 5/19/2003 | 0.00                 | 21.53                | 56                             | 49  | 63  | 10.3                | 26  | 70                             | 49  | 100 | 30.30                           | 30.27 | 30.33 | 18.8                     | 11   | 60.1                      | 80  |
| 5/20/2003 | 0.00                 | 21.53                | 59                             | 48  | 66  | 6.0                 | 16  | 67                             | 46  | 100 | 30.25                           | 30.17 | 30.31 | 15.6                     | 10   | 63.4                      | 88  |
| 5/21/2003 | 0.51                 | 22.04                | 58                             | 54  | 61  | 6.8                 | 18  | 95                             | 81  | 100 | 30.14                           | 30.12 | 30.16 | 22.4                     | 15   | 59.6                      | 69  |
| 5/22/2003 | 0.62                 | 22.66                | 55                             | 53  | 57  | 6.6                 | 18  | 100                            | 100 | 100 | 30.18                           | 30.13 | 30.22 | 26.0                     | 26   | 55.3                      | 59  |
| 5/23/2003 | 0.82                 | 23.48                | 54                             | 52  | 56  | 10.4                | 21  | 100                            | 100 | 100 | 30.10                           | 29.94 | 30.17 | 26.0                     | 26   | 55.2                      | 58  |
| 5/24/2003 | 0.00                 | 23.48                | 59                             | 52  | 66  | 9.0                 | 21  | 92                             | 72  | 100 | 29.97                           | 29.91 | 30.02 | 24.5                     | 19   | 62.1                      | 80  |
| 5/25/2003 | 0.00                 | 23.48                | 57                             | 53  | 61  | 7.8                 | 17  | 97                             | 85  | 100 | 30.02                           | 29.93 | 30.06 | 23.0                     | 15   | 61.0                      | 72  |
| 5/26/2003 | 0.45                 | 23.93                | 61                             | 54  | 71  | 6.8                 | 20  | 92                             | 71  | 100 | 29.92                           | 29.84 | 30.04 | 25.1                     | 22   | 63.1                      | 79  |
| 5/27/2003 | 0.01                 | 23.94                | 55                             | 52  |     | 6.0                 | 23  | 89                             | 74  | 100 | 30.18                           | 30.03 | 30.30 | 20.7                     | 7.3  | 57.1                      | 74  |
| 5/28/2003 | 0.05                 | 23.99                | 60                             | 49  | 70  | 4.5                 | 17  | 85                             | 65  | 98  | 30.13                           | 30.06 | 30.21 | 22.1                     | 15   | 61.1                      | 83  |
| 5/29/2003 | 0.10                 | 24.09                | 61                             | 53  | 71  | 2.6                 | 15  | 90                             | 70  | 99  | 29.95                           | 29.89 | 30.04 | 31.9                     | 15   | 62.8                      | 86  |
| 5/30/2003 | 0.00                 | 24.09                | 69                             | 58  | 83  | 4.6                 | 17  | 75                             | 48  | 95  | 29.94                           | 29.88 | 30.00 | 23.0                     | 11.4 | 72.9                      | 100 |
| 5/31/2003 | 0.41                 | 24.50                | 63                             | 58  | 69  | 9.5                 | 28  | 90                             | 77  | 98  | 29.81                           | 29.61 | 29.96 | 27.7                     | 15   | 65.3                      | 82  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM  | Avg<br>FT    | Max<br>FT  |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|------------|--------------|------------|
| <b>5.22</b>   | <b>24.5</b>    | <b>58</b>   | <b>38</b>   | <b>83</b>   | <b>8.2</b>  | <b>41</b>   | <b>86</b> | <b>31</b> | <b>100</b> | <b>30.03</b> | <b>29.58</b> | <b>30.35</b> | <b>21.46</b> | <b>7.3</b> | <b>60.95</b> | <b>100</b> |

## June 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |     | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|-----|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min | Avg                       | Max |
| 6/1/2003  | 0.00                 | 24.50                | 63                             | 58  | 68  | 11.5                | 32  | 73                             | 63  | 93  | 29.90                           | 29.62 | 30.18 | 23.5                     | 15  | 63.4                      | 75  |
| 6/2/2003  | 0.00                 | 24.50                | 64                             | 54  | 76  | 5.3                 | 19  | 55                             | 29  | 85  | 30.29                           | 30.18 | 30.35 | 12.4                     | 8.7 | 67.3                      | 94  |
| 6/3/2003  | 0.01                 | 24.51                | 61                             | 49  | 69  | 8.2                 | 22  | 80                             | 58  | 96  | 30.29                           | 30.17 | 30.38 | 16.9                     | 12  | 63.3                      | 87  |
| 6/4/2003  | 0.29                 | 24.80                | 63                             | 59  | 68  | 4.2                 | 15  | 96                             | 86  | 99  | 30.12                           | 30.07 | 30.16 | 40.5                     | 24  | 63.9                      | 73  |
| 6/5/2003  | 0.00                 | 24.80                | 68                             | 57  | 80  | 5.1                 | 20  | 78                             | 49  | 98  | 30.16                           | 30.06 | 30.23 | 24.7                     | 12  | 72.0                      | 95  |
| 6/6/2003  | 0.00                 | 24.80                | 67                             | 57  | 78  | 5.0                 | 15  | 76                             | 47  | 96  | 30.31                           | 30.23 | 30.36 | 16.8                     | 11  | 71.9                      | 95  |
| 6/7/2003  | 0.80                 | 25.60                | 65                             | 60  | 71  | 8.6                 | 22  | 95                             | 85  | 99  | 30.16                           | 30.06 | 30.30 | 45.2                     | 16  | 65.0                      | 70  |
| 6/8/2003  | 0.00                 | 25.60                | 62                             | 57  | 71  | 6.4                 | 15  | 93                             | 81  | 98  | 30.16                           | 30.08 | 30.19 | 34.6                     | 19  | 65.1                      | 80  |
| 6/9/2003  | 0.00                 | 25.60                | 66                             | 57  | 77  | 4.3                 | 14  | 87                             | 69  | 98  | 30.20                           | 30.08 | 30.28 | 20.3                     | 13  | 71.2                      | 96  |
| 6/10/2003 | 0.00                 | 25.60                | 68                             | 59  | 75  | 4.3                 | 13  | 86                             | 73  | 98  | 30.35                           | 30.29 | 30.39 | 19.8                     | 12  | 73.5                      | 96  |
| 6/11/2003 | 0.00                 | 25.60                | 70                             | 63  | 76  | 7.2                 | 20  | 88                             | 76  | 99  | 30.24                           | 30.19 | 30.29 | 16.8                     | 13  | 74.8                      | 92  |
| 6/12/2003 | 0.00                 | 25.60                | 71                             | 64  | 82  | 6.5                 | 18  | 86                             | 66  | 98  | 30.24                           | 30.21 | 30.28 | 16.1                     | 12  | 78.2                      | 97  |
| 6/13/2003 | 0.14                 | 25.74                | 72                             | 64  | 79  | 7.5                 | 22  | 88                             | 77  | 98  | 30.20                           | 30.16 | 30.23 | 21.2                     | 13  | 77.2                      | 96  |
| 6/14/2003 | 0.03                 | 25.77                | 76                             | 69  | 87  | 7.3                 | 21  | 82                             | 68  | 91  | 30.20                           | 30.16 | 30.24 | 18.2                     | 11  | 81.1                      | 104 |
| 6/15/2003 | 0.00                 | 25.77                | 70                             | 63  | 79  | 3.5                 | 16  | 87                             | 71  | 98  | 30.28                           | 30.19 | 30.33 | 18.3                     | 13  | 73.2                      | 92  |
| 6/16/2003 | 0.00                 | 25.77                | 67                             | 61  | 76  | 11.0                | 24  | 84                             | 70  | 98  | 30.47                           | 30.33 | 30.55 | 16.7                     | 13  | 71.0                      | 93  |
| 6/17/2003 | 0.39                 | 26.16                | 63                             | 60  | 69  | 10.8                | 18  | 88                             | 72  | 98  | 30.47                           | 30.33 | 30.53 | 26.3                     | 14  | 65.5                      | 81  |
| 6/18/2003 | 0.28                 | 26.44                | 69                             | 63  | 78  | 3.7                 | 12  | 92                             | 80  | 98  | 30.22                           | 30.14 | 30.31 | 35.0                     | 16  | 71.1                      | 93  |
| 6/19/2003 | 1.54                 | 27.98                | 67                             | 64  | 75  | 3.2                 | 13  | 92                             | 83  | 98  | 30.08                           | 30.04 | 30.12 | 40.8                     | 24  | 69.0                      | 83  |
| 6/20/2003 | 0.02                 | 28.00                | 66                             | 62  | 74  | 6.5                 | 19  | 91                             | 80  | 96  | 30.12                           | 30.08 | 30.16 | 23.8                     | 16  | 69.0                      | 84  |
| 6/21/2003 | 0.00                 | 28.00                | 68                             | 60  | 78  | 6.5                 | 21  | 73                             | 52  | 94  | 30.11                           | 30.07 | 30.14 | 17.0                     | 11  | 72.7                      | 97  |
| 6/22/2003 | 0.00                 | 28.00                | 70                             | 61  | 79  | 4.5                 | 16  | 74                             | 55  | 93  | 30.12                           | 30.08 | 30.14 | 13.6                     | 10  | 73.8                      | 95  |
| 6/23/2003 | 0.00                 | 28.00                | 79                             | 64  | 92  | 4.4                 | 13  | 63                             | 40  | 88  | 30.15                           | 30.11 | 30.21 | 11.5                     | 8   | 84.4                      | 111 |
| 6/24/2003 | 0.00                 | 28.00                | 76                             | 66  | 88  | 4.5                 | 14  | 68                             | 48  | 96  | 30.30                           | 30.20 | 30.34 | 10.8                     | 8   | 81.3                      | 104 |
| 6/25/2003 | 0.00                 | 28.00                | 82                             | 71  | 94  | 3.9                 | 15  | 66                             | 46  | 82  | 30.30                           | 30.24 | 30.36 | 11.3                     | 8   | 87.3                      | 112 |
| 6/26/2003 | 0.00                 | 28.00                | 85                             | 73  | 96  | 4.1                 | 13  | 68                             | 49  | 88  | 30.18                           | 30.12 | 30.24 | 11.7                     | 8   | 89.4                      | 115 |
| 6/27/2003 | 0.00                 | 28.00                | 82                             | 71  | 95  | 4.9                 | 18  | 71                             | 51  | 97  | 30.17                           | 30.12 | 30.26 | 11.7                     | 9   | 87.7                      | 114 |
| 6/28/2003 | 0.03                 | 28.03                | 74                             | 67  | 82  | 6.7                 | 18  | 70                             | 52  | 95  | 30.38                           | 30.26 | 30.45 | 13.9                     | 8   | 79.2                      | 103 |
| 6/29/2003 | 0.00                 | 28.03                | 77                             | 69  | 84  | 5.0                 | 14  | 86                             | 72  | 97  | 30.45                           | 30.42 | 30.48 | 18.1                     | 11  | 82.6                      | 102 |
| 6/30/2003 | 0.00                 | 28.03                | 79                             | 71  | 87  | 5.5                 | 17  | 85                             | 73  | 97  | 30.41                           | 30.37 | 30.45 | 18.5                     | 11  | 84.1                      | 105 |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM | Avg<br>FT    | Max<br>FT  |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|-----------|--------------|------------|
| <b>3.53</b>   | <b>28.03</b>   | <b>70</b>   | <b>49</b>   | <b>96</b>   | <b>6.0</b>  | <b>32</b>   | <b>81</b> | <b>29</b> | <b>99</b> | <b>30.23</b> | <b>29.62</b> | <b>30.55</b> | <b>20.86</b> | <b>8</b>  | <b>74.31</b> | <b>115</b> |

## July 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 7/1/2003  | 0.00                 | 28.03                | 74                             | 68  | 81  | 6.2                 | 17  | 70                             | 55  | 88  | 30.40                           | 30.36 | 30.43 | 13.0                     | 9.8  | 77.9                      | 95  |
| 7/2/2003  | 0.91                 | 28.94                | 72                             | 65  | 78  | 8.5                 | 32  | 92                             | 83  | 98  | 30.30                           | 30.20 | 30.37 | 29.9                     | 14.8 | 72.2                      | 85  |
| 7/3/2003  | 0.08                 | 29.02                | 74                             | 71  | 81  | 8.1                 | 27  | 90                             | 80  | 96  | 30.12                           | 30.09 | 30.20 | 30.3                     | 14.5 | 77.7                      | 95  |
| 7/4/2003  | 0.00                 | 29.02                | 80                             | 72  | 92  | 6.8                 | 16  | 78                             | 52  | 94  | 30.20                           | 30.14 | 30.25 | 15.9                     | 9    | 85.3                      | 109 |
| 7/5/2003  | 0.00                 | 29.02                | 81                             | 71  | 94  | 8.0                 | 21  | 77                             | 54  | 90  | 30.23                           | 30.19 | 30.26 | 13.2                     | 8.9  | 87.2                      | 109 |
| 7/6/2003  | 0.00                 | 29.02                | 82                             | 73  | 91  | 7.6                 | 21  | 75                             | 61  | 94  | 30.23                           | 30.20 | 30.26 | 11.9                     | 8.2  | 89.0                      | 110 |
| 7/7/2003  | 0.00                 | 29.02                | 82                             | 71  | 93  | 7.4                 | 37  | 74                             | 54  | 90  | 30.25                           | 30.22 | 30.27 | 12.0                     | 8.1  | 88.2                      | 114 |
| 7/8/2003  | 0.00                 | 29.02                | 84                             | 78  | 94  | 6.5                 | 18  | 71                             | 51  | 90  | 30.26                           | 30.23 | 30.32 | 11.8                     | 8.1  | 89.3                      | 112 |
| 7/9/2003  | 0.30                 | 29.32                | 81                             | 71  | 91  | 5.8                 | 32  | 81                             | 58  | 97  | 30.22                           | 30.15 | 30.27 | 20.4                     | 8.9  | 87.7                      | 113 |
| 7/10/2003 | 0.00                 | 29.32                | 76                             | 71  | 86  | 5.6                 | 19  | 88                             | 67  | 98  | 30.20                           | 30.16 | 30.25 | 23.1                     | 12.5 | 80.6                      | 107 |
| 7/11/2003 | 0.00                 | 29.32                | 81                             | 73  | 90  | 10.7                | 27  | 73                             | 55  | 91  | 30.10                           | 30.06 | 30.18 | 13.6                     | 9.1  | 86.9                      | 108 |
| 7/12/2003 | 0.00                 | 29.32                | 76                             | 67  | 85  | 6.9                 | 19  | 82                             | 59  | 97  | 30.24                           | 30.15 | 30.29 | 13.3                     | 8.9  | 82.6                      | 105 |
| 7/13/2003 | 0.00                 | 29.32                | 77                             | 69  | 85  | 3.9                 | 17  | 77                             | 53  | 95  | 30.36                           | 30.29 | 30.43 | 15.7                     | 8.8  | 83.2                      | 105 |
| 7/14/2003 | 0.34                 | 29.66                | 70                             | 67  | 78  | 3.3                 | 15  | 93                             | 80  | 98  | 30.45                           | 30.41 | 30.48 | 31.9                     | 17.5 | 72.1                      | 91  |
| 7/15/2003 | 0.00                 | 29.66                | 74                             | 62  | 83  | 4.3                 | 13  | 82                             | 64  | 97  | 30.42                           | 30.36 | 30.47 | 17.4                     | 9.9  | 80.8                      | 105 |
| 7/16/2003 | 0.25                 | 29.91                | 76                             | 70  | 82  | 7.0                 | 24  | 88                             | 76  | 96  | 30.30                           | 30.25 | 30.36 | 24.3                     | 11   | 80.6                      | 102 |
| 7/17/2003 | 0.00                 | 29.91                | 75                             | 65  | 83  | 4.0                 | 17  | 77                             | 60  | 97  | 30.35                           | 30.28 | 30.40 | 16.8                     | 9.1  | 80.7                      | 105 |
| 7/18/2003 | 0.03                 | 29.94                | 76                             | 65  | 86  | 5.4                 | 22  | 76                             | 56  | 91  | 30.33                           | 30.25 | 30.38 | 18.7                     | 8.9  | 81.5                      | 106 |
| 7/19/2003 | 0.68                 | 30.62                | 74                             | 65  | 83  | 2.3                 | 16  | 82                             | 60  | 95  | 30.26                           | 30.20 | 30.29 | 21.9                     | 13.8 | 74.7                      | 101 |
| 7/20/2003 | 0.00                 | 30.62                | 76                             | 63  | 86  | 3.7                 | 13  | 72                             | 43  | 94  | 30.32                           | 30.29 | 30.35 | 19.7                     | 10.1 | 80.3                      | 104 |
| 7/21/2003 | 0.00                 | 30.62                | 77                             | 70  | 83  | 9.0                 | 18  | 87                             | 75  | 96  | 30.23                           | 30.13 | 30.31 | 15.7                     | 10   | 82.8                      | 104 |
| 7/22/2003 | 0.32                 | 30.94                | 73                             | 67  | 81  | 9.4                 | 30  | 88                             | 75  | 96  | 30.12                           | 30.08 | 30.16 | 24.0                     | 10.5 | 77.5                      | 100 |
| 7/23/2003 | 0.37                 | 31.31                | 68                             | 63  | 77  | 7.0                 | 23  | 90                             | 80  | 97  | 30.17                           | 30.10 | 30.23 | 34.6                     | 15.9 | 70.8                      | 89  |
| 7/24/2003 | 0.01                 | 31.32                | 68                             | 62  | 79  | 5.5                 | 16  | 87                             | 77  | 96  | 30.29                           | 30.22 | 30.39 | 24.0                     | 13.3 | 72.9                      | 93  |
| 7/25/2003 | 0.00                 | 31.32                | 71                             | 60  | 83  | 2.7                 | 11  | 83                             | 53  | 96  | 30.50                           | 30.42 | 30.56 | 16.6                     | 11.6 | 75.3                      | 101 |
| 7/26/2003 | 0.00                 | 31.32                | 71                             | 59  | 80  | 4.8                 | 15  | 82                             | 60  | 97  | 30.56                           | 30.49 | 30.61 | 17.9                     | 10.1 | 77.9                      | 102 |
| 7/27/2003 | 0.00                 | 31.32                | 73                             | 62  | 90  | 6.8                 | 20  | 80                             | 60  | 90  | 30.36                           | 30.21 | 30.49 | 16.0                     | 11.1 | 77.7                      | 106 |
| 7/28/2003 | 0.34                 | 31.66                | 75                             | 64  | 88  | 5.8                 | 20  | 79                             | 47  | 96  | 30.16                           | 30.12 | 30.23 | 20.4                     | 9.2  | 81.0                      | 104 |
| 7/29/2003 | 0.04                 | 31.70                | 70                             | 65  | 77  | 6.4                 | 21  | 86                             | 71  | 97  | 30.22                           | 30.11 | 30.31 | 25.2                     | 14.1 | 73.0                      | 89  |
| 7/30/2003 | 0.56                 | 32.26                | 68                             | 67  | 70  | 7.4                 | 21  | 93                             | 73  | 97  | 30.38                           | 30.33 | 30.43 | 52.7                     | 43.7 | 68.4                      | 70  |
| 7/31/2003 | 0.13                 | 32.39                | 74                             | 69  | 81  | 3.8                 | 13  | 82                             | 66  | 96  | 30.39                           | 30.38 | 30.41 | 32.5                     | 14.2 | 77.7                      | 98  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM  | Avg<br>FT    | Max<br>FT  |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|--------------|--------------|--------------|--------------|------------|--------------|------------|
| <b>4.36</b>   | <b>32.39</b>   | <b>75</b>   | <b>59</b>   | <b>94</b>   | <b>6.1</b>  | <b>37</b>   | <b>82</b> | <b>43</b> | <b>98</b> | <b>30.29</b> | <b>30.06</b> | <b>30.61</b> | <b>21.12</b> | <b>8.1</b> | <b>79.79</b> | <b>114</b> |

## August 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 8/1/2003  | 0.15                 | 32.41                | 75                             | 69  | 81  | 5.9                 | 18  | 84                             | 71  | 96  | 30.35                           | 30.30 | 30.40 | 26.4                     | 10.9 | 81.9                      | 103 |
| 8/2/2003  | 0.04                 | 32.45                | 75                             | 69  | 83  | 6.7                 | 16  | 87                             | 77  | 96  | 30.38                           | 30.30 | 30.40 | 27.5                     | 10.6 | 81.3                      | 105 |
| 8/3/2003  | 0.00                 | 32.45                | 74                             | 69  | 82  | 5.5                 | 14  | 88                             | 75  | 96  | 30.37                           | 30.30 | 30.40 | 21.7                     | 10.5 | 80.2                      | 103 |
| 8/4/2003  | 0.00                 | 32.45                | 73                             | 68  | 83  | 6.5                 | 20  | 85                             | 67  | 96  | 30.30                           | 30.30 | 30.30 | 16.9                     | 9.5  | 79.3                      | 103 |
| 8/5/2003  | 0.36                 | 32.81                | 70                             | 66  | 81  | 4.3                 | 16  | 85                             | 54  | 96  | 30.19                           | 30.10 | 30.20 | 22.5                     | 14.8 | 73.0                      | 93  |
| 8/6/2003  | 0.18                 | 32.99                | 71                             | 65  | 78  | 3.1                 | 20  | 85                             | 50  | 95  | 30.20                           | 30.20 | 30.20 | 26.0                     | 12.3 | 76.2                      | 99  |
| 8/7/2003  | 0.48                 | 33.47                | 69                             | 62  | 81  | 4.6                 | 16  | 76                             | 48  | 96  | 30.17                           | 30.10 | 30.20 | 33.2                     | 18.9 | 70.3                      | 78  |
| 8/8/2003  | 0.00                 | 33.47                | 73                             | 66  | 76  | 2.4                 | 12  | 76                             | 36  | 96  | 30.21                           | 30.10 | 30.30 | 24.2                     | 11.7 | 78.2                      | 103 |
| 8/9/2003  | 0.03                 | 33.50                | 71                             | 65  | 82  | 5.2                 | 18  | 85                             | 69  | 95  | 30.28                           | 30.20 | 30.30 | 24.1                     | 15.3 | 73.8                      | 87  |
| 8/10/2003 | 0.00                 | 33.50                | 70                             | 67  | 78  | 6.5                 | 19  | 89                             | 76  | 96  | 30.30                           | 30.30 | 30.30 | 18.2                     | 12.1 | 74.3                      | 97  |
| 8/11/2003 | 0.15                 | 33.65                | 69                             | 66  | 78  | 3.3                 | 14  | 84                             | 66  | 96  | 30.28                           | 30.20 | 30.30 | 21.3                     | 14.3 | 72.9                      | 94  |
| 8/12/2003 | 0.00                 | 33.65                | 70                             | 64  | 78  | 3.4                 | 11  | 80                             | 57  | 97  | 30.41                           | 30.30 | 30.50 | 17.8                     | 11.4 | 75.8                      | 97  |
| 8/13/2003 | 0.00                 | 33.65                | 73                             | 64  | 79  | 2.9                 | 13  | 80                             | 61  | 96  | 30.58                           | 30.50 | 30.60 | 16.5                     | 11.3 | 78.2                      | 97  |
| 8/14/2003 | 0.00                 | 33.65                | 77                             | 67  | 81  | 1.9                 | 11  | 75                             | 25  | 95  | 30.56                           | 30.50 | 30.60 | 15.2                     | 9.3  | 81.5                      | 107 |
| 8/15/2003 | 0.00                 | 33.65                | 82                             | 66  | 92  | 2.9                 | 15  | 79                             | 59  | 95  | 30.43                           | 30.30 | 30.50 | 14.0                     | 8.2  | 86.8                      | 111 |
| 8/16/2003 | 0.77                 | 34.42                | 76                             | 73  | 91  | 5.3                 | 25  | 86                             | 69  | 97  | 30.20                           | 30.10 | 30.30 | 23.9                     | 11.9 | 78.9                      | 105 |
| 8/17/2003 | 0.94                 | 35.36                | 75                             | 67  | 87  | 3.1                 | 25  | 87                             | 67  | 96  | 30.16                           | 30.10 | 30.20 | 30.4                     | 12.8 | 78.3                      | 101 |
| 8/18/2003 | 0.00                 | 35.36                | 73                             | 68  | 86  | 5.4                 | 18  | 83                             | 68  | 95  | 30.34                           | 30.20 | 30.40 | 16.6                     | 9.8  | 77.9                      | 102 |
| 8/19/2003 | 0.00                 | 35.36                | 75                             | 67  | 81  | 2.7                 | 11  | 81                             | 60  | 95  | 30.48                           | 30.40 | 30.50 | 15.1                     | 8.4  | 79.7                      | 108 |
| 8/20/2003 | 0.00                 | 35.36                | 74                             | 65  | 85  | 3.1                 | 11  | 70                             | 34  | 96  | 30.48                           | 30.40 | 30.50 | 14.2                     | 8.5  | 79.7                      | 106 |
| 8/21/2003 | 0.00                 | 35.36                | 76                             | 62  | 85  | 5.3                 | 19  | 87                             | 76  | 96  | 30.36                           | 30.30 | 30.40 | 18.2                     | 9.4  | 82.2                      | 104 |
| 8/22/2003 | 0.00                 | 35.36                | 76                             | 70  | 83  | 6.6                 | 20  | 86                             | 72  | 96  | 30.22                           | 30.10 | 30.30 | 17.6                     | 9.8  | 81.4                      | 101 |
| 8/23/2003 | 0.00                 | 35.36                | 79                             | 69  | 83  | 5.7                 | 22  | 67                             | 49  | 95  | 30.22                           | 30.10 | 30.30 | 12.1                     | 7.3  | 84.8                      | 108 |
| 8/24/2003 | 0.00                 | 35.36                | 70                             | 69  | 84  | 5.5                 | 17  | 57                             | 36  | 94  | 30.38                           | 30.30 | 30.40 | 8.9                      | 5.5  | 74.9                      | 102 |
| 8/25/2003 | 0.00                 | 35.36                | 71                             | 58  | 80  | 6.9                 | 20  | 81                             | 67  | 97  | 30.35                           | 30.30 | 30.40 | 13.2                     | 8.2  | 76.5                      | 100 |
| 8/26/2003 | 0.25                 | 35.61                | 78                             | 59  | 81  | 4.3                 | 33  | 79                             | 57  | 96  | 30.26                           | 30.20 | 30.30 | 24.1                     | 8.9  | 83.3                      | 106 |
| 8/27/2003 | 0.06                 | 35.67                | 81                             | 68  | 91  | 5.2                 | 38  | 75                             | 46  | 96  | 30.24                           | 30.20 | 30.30 | 27.7                     | 8.4  | 85.0                      | 115 |
| 8/28/2003 | 0.11                 | 35.78                | 77                             | 68  | 95  | 4.5                 | 23  | 84                             | 66  | 96  | 30.38                           | 30.30 | 30.40 | 21.9                     | 10.1 | 81.8                      | 103 |
| 8/29/2003 | 0.02                 | 35.80                | 78                             | 71  | 87  | 6.6                 | 18  | 87                             | 74  | 95  | 30.39                           | 30.30 | 30.40 | 19.3                     | 10.6 | 82.1                      | 102 |
| 8/30/2003 | 1.13                 | 36.93                | 80                             | 71  | 85  | 7.4                 | 24  | 81                             | 65  | 97  | 30.40                           | 30.30 | 30.50 | 20.0                     | 8.4  | 86.0                      | 111 |
| 8/31/2003 | 0.02                 | 36.95                | 70                             | 71  | 92  | 6.8                 | 19  | 90                             | 77  | 96  | 30.57                           | 30.50 | 30.60 | 31.9                     | 16.4 | 71.7                      | 88  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH | Avg<br>BP    | Min<br>BP   | Max<br>BP   | Avg<br>FM    | Min<br>FM  | Avg<br>FT    | Max<br>FT  |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|--------------|-------------|-------------|--------------|------------|--------------|------------|
| <b>4.69</b>   | <b>36.95</b>   | <b>74</b>   | <b>58</b>   | <b>95</b>   | <b>4.8</b>  | <b>38</b>   | <b>81</b> | <b>25</b> | <b>97</b> | <b>30.34</b> | <b>30.1</b> | <b>30.6</b> | <b>20.67</b> | <b>5.5</b> | <b>78.97</b> | <b>115</b> |

## September 2003

|           | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|-----------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date      | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 9/1/2003  | 0.00                 | 36.95                | 75                             | 66  | 78  | 5.2                 | 17  | 86                             | 74  | 96  | 30.45                           | 30.39 | 30.50 | 17.3                     | 10   | 81.0                      | 100 |
| 9/2/2003  | 0.74                 | 37.69                | 78                             | 68  | 85  | 6.7                 | 20  | 82                             | 63  | 96  | 30.37                           | 30.32 | 30.41 | 23.2                     | 8.7  | 83.0                      | 108 |
| 9/3/2003  | 0.46                 | 38.15                | 73                             | 68  | 92  | 3.0                 | 20  | 84                             | 51  | 96  | 30.34                           | 30.26 | 30.38 | 45.3                     | 15.6 | 76.3                      | 101 |
| 9/4/2003  | 1.09                 | 39.24                | 73                             | 68  | 81  | 5.8                 | 29  | 87                             | 49  | 97  | 30.17                           | 30.10 | 30.27 | 45.2                     | 16.3 | 75.1                      | 99  |
| 9/5/2003  | 0.00                 | 39.24                | 73                             | 68  | 80  | 7.0                 | 18  | 73                             | 49  | 93  | 30.24                           | 30.13 | 30.34 | 29.0                     | 11.8 | 76.4                      | 98  |
| 9/6/2003  | 0.00                 | 39.24                | 68                             | 65  | 79  | 5.3                 | 17  | 81                             | 66  | 95  | 30.37                           | 30.33 | 30.40 | 13.8                     | 10   | 71.2                      | 97  |
| 9/7/2003  | 0.00                 | 39.24                | 67                             | 57  | 78  | 1.9                 | 8   | 63                             | 40  | 96  | 30.34                           | 30.30 | 30.37 | 14.1                     | 7.6  | 71.7                      | 106 |
| 9/8/2003  | 0.00                 | 39.24                | 70                             | 54  | 80  | 6.9                 | 20  | 73                             | 48  | 89  | 30.32                           | 30.30 | 30.40 | 13.5                     | 8    | 75.1                      | 103 |
| 9/9/2003  | 0.02                 | 39.26                | 71                             | 55  | 80  | 14.8                | 31  | 79                             | 67  | 91  | 30.43                           | 30.36 | 30.48 | 16.4                     | 11.3 | 73.4                      | 88  |
| 9/10/2003 | 0.00                 | 39.26                | 68                             | 67  | 76  | 13.7                | 31  | 66                             | 52  | 80  | 30.48                           | 30.44 | 30.52 | 11.3                     | 8.2  | 71.9                      | 89  |
| 9/11/2003 | 0.00                 | 39.26                | 69                             | 61  | 73  | 11.3                | 28  | 77                             | 62  | 93  | 30.46                           | 30.43 | 30.49 | 13.2                     | 8.9  | 73.0                      | 92  |
| 9/12/2003 | 1.06                 | 40.32                | 70                             | 60  | 76  | 18.1                | 38  | 92                             | 81  | 96  | 30.35                           | 30.28 | 30.44 | 46.8                     | 13.9 | 70.4                      | 72  |
| 9/13/2003 | 0.00                 | 40.32                | 76                             | 68  | 73  | 6.6                 | 20  | 88                             | 74  | 96  | 30.36                           | 30.27 | 30.45 | 31.0                     | 13.7 | 79.5                      | 99  |
| 9/14/2003 | 0.04                 | 40.36                | 76                             | 71  | 84  | 2.0                 | 10  | 89                             | 78  | 96  | 30.46                           | 30.42 | 30.50 | 21.0                     | 11.5 | 80.5                      | 100 |
| 9/15/2003 | 0.35                 | 40.71                | 74                             | 69  | 83  | 3.4                 | 14  | 87                             | 69  | 94  | 30.33                           | 30.26 | 30.43 | 25.3                     | 13.8 | 76.0                      | 97  |
| 9/16/2003 | 0.00                 | 40.71                | 73                             | 70  | 84  | 6.5                 | 21  | 64                             | 40  | 91  | 30.38                           | 30.30 | 30.43 | 17.0                     | 8.4  | 76.5                      | 101 |
| 9/17/2003 | 0.00                 | 40.71                | 71                             | 66  | 84  | 14.8                | 34  | 74                             | 55  | 91  | 30.45                           | 30.42 | 30.49 | 12.3                     | 8.7  | 73.8                      | 91  |
| 9/18/2003 | 1.28                 | 41.99                | 72                             | 65  | 78  | 29.3                | 61  | 91                             | 84  | 96  | 30.16                           | 29.96 | 30.41 | 41.4                     | 15.6 | 71.9                      | 74  |
| 9/19/2003 | 0.00                 | 41.99                | 75                             | 70  | 76  | 16.4                | 49  | 83                             | 75  | 94  | 30.23                           | 30.01 | 30.39 | 26.6                     | 13.4 | 77.6                      | 92  |
| 9/20/2003 | 0.00                 | 41.99                | 76                             |     |     | 2.5                 | 8   | 80                             | 32  | 93  | 30.44                           | 30.40 | 30.50 | 20.8                     | 11   | 82.8                      | 101 |
| 9/21/2003 | 0.00                 | 41.99                | 73                             | 65  | 83  | 6.3                 | 15  | 75                             | 33  | 93  | 30.52                           | 30.48 | 30.55 | 24.5                     | 12.1 | 75.6                      | 96  |
| 9/22/2003 | 0.00                 | 41.99                | 75                             | 66  | 81  | 9.8                 | 21  | 86                             | 75  | 93  | 30.43                           | 30.28 | 30.52 | 24.5                     | 12.9 | 77.7                      | 96  |
| 9/23/2003 | 0.60                 | 42.59                | 72                             | 70  | 82  | 9.3                 | 33  | 83                             | 58  | 94  | 30.19                           | 30.09 | 30.30 | 28.6                     | 15.2 | 71.9                      | 86  |
| 9/24/2003 | 0.00                 | 42.59                | 71                             | 63  | 79  | 5.6                 | 14  | 65                             | 45  | 86  | 30.39                           | 30.31 | 30.45 | 14.1                     | 8.3  | 75.2                      | 99  |
| 9/25/2003 | 0.00                 | 42.59                | 74                             | 62  | 80  | 8.5                 | 18  | 73                             | 61  | 84  | 30.32                           | 30.26 | 30.36 | 13.4                     | 9.2  | 77.3                      | 97  |
| 9/26/2003 | 0.00                 | 42.59                | 74                             | 69  | 81  | 5.7                 | 12  | 80                             | 67  | 93  | 30.30                           | 30.28 | 30.33 | 15.7                     | 9.8  | 77.6                      | 100 |
| 9/27/2003 | 0.11                 | 42.70                | 76                             | 66  | 83  | 8.8                 | 21  | 82                             | 66  | 94  | 30.21                           | 30.14 | 30.28 | 23.9                     | 10.8 | 79.7                      | 103 |
| 9/28/2003 | 0.92                 | 43.62                | 72                             | 68  | 85  | 3.4                 | 19  | 78                             | 63  | 92  | 30.04                           | 29.97 | 30.12 | 33.1                     | 14.7 | 74.1                      | 100 |
| 9/29/2003 | 0.00                 | 43.62                | 64                             | 63  | 84  | 6.8                 | 23  | 62                             | 41  | 83  | 30.28                           | 30.12 | 30.48 | 12.8                     | 9.2  | 66.8                      | 88  |
| 9/30/2003 | 0.00                 | 43.62                | 61                             | 57  | 71  | 4.3                 | 349 | 57                             | 40  | 84  | 30.91                           | 30.49 | 40.00 | 36.5                     | 7.4  | 47.4                      | 91  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH | Avg<br>BP    | Min<br>BP    | Max<br>BP | Avg<br>FM    | Min<br>FM  | Avg<br>FT    | Max<br>FT  |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|--------------|--------------|-----------|--------------|------------|--------------|------------|
| <b>6.67</b>   | <b>43.62</b>   | <b>72</b>   | <b>54</b>   | <b>92</b>   | <b>8.3</b>  | <b>349</b>  | <b>78</b> | <b>32</b> | <b>97</b> | <b>30.36</b> | <b>29.96</b> | <b>40</b> | <b>23.71</b> | <b>7.4</b> | <b>74.68</b> | <b>108</b> |

## October 2003

|            | Rainfall    |                | Air Temperature |     |     | Wind speed |     | Relative Humidity |     |     | Barometric Pressure |       |       | Fuel Moist. |      | Fuel Temp.  |     |
|------------|-------------|----------------|-----------------|-----|-----|------------|-----|-------------------|-----|-----|---------------------|-------|-------|-------------|------|-------------|-----|
|            | Inches]     |                | [Degrees F]     |     |     | [MPH]      |     | [Percent]         |     |     | Inches]             |       |       | [Percent]   |      | [Degrees F] |     |
| Date       | Daily Total | Total for year | Avg             | Min | Max | Avg        | Max | Avg               | Min | Max | Avg                 | Min   | Max   | Avg         | Min  | Avg         | Max |
| 10/1/2003  | 0.00        | 43.62          | 59              | 44  | 72  | 2.8        | 16  | 68                | 39  | 91  | 30.45               | 30.39 | 30.52 | 12.9        | 8.5  | 61.8        | 92  |
| 10/2/2003  | 0.00        | 43.62          | 57              | 44  | 75  | 7.4        | 26  | 54                | 36  | 75  | 30.39               | 30.35 | 30.49 | 10.1        | 7.9  | 59.5        | 81  |
| 10/3/2003  | 0.00        | 43.62          | 55              | 48  | 68  | 6.9        | 20  | 55                | 39  | 75  | 30.46               | 30.33 | 30.54 | 9.0         | 6.9  | 59.0        | 84  |
| 10/4/2003  | 0.00        | 43.62          | 64              | 44  | 65  | 8.8        | 28  | 60                | 41  | 74  | 30.21               | 30.12 | 30.31 | 10.1        | 7.9  | 65.3        | 87  |
| 10/5/2003  | 0.00        | 43.62          | 59              | 54  | 74  | 3.3        | 17  | 54                | 33  | 89  | 30.30               | 30.24 | 30.36 | 9.8         | 7    | 60.7        | 86  |
| 10/6/2003  | 0.00        | 43.62          | 64              | 42  | 71  | 7.0        | 17  | 63                | 49  | 77  | 30.37               | 30.34 | 30.42 | 10.3        | 8    | 65.3        | 92  |
| 10/7/2003  | 0.00        | 43.62          | 68              | 53  | 74  | 7.8        | 17  | 67                | 51  | 87  | 30.47               | 30.41 | 30.51 | 11.0        | 7.4  | 71.5        | 93  |
| 10/8/2003  | 0.00        | 43.62          | 68              | 61  | 77  | 2.5        | 12  | 71                | 31  | 93  | 30.51               | 30.49 | 30.55 | 15.9        | 9.6  | 68.2        | 96  |
| 10/9/2003  | 0.00        | 43.62          | 68              | 55  | 80  | 5.5        | 14  | 61                | 4   | 92  | 30.48               | 30.43 | 30.52 | 18.5        | 11.6 | 68.8        | 92  |
| 10/10/2003 | 0.00        | 43.62          | 68              | 55  | 77  | 15.3       | 34  | 87                | 78  | 93  | 30.35               | 30.31 | 30.43 | 20.0        | 16.2 | 68.0        | 73  |
| 10/11/2003 | 0.26        | 43.88          | 62              | 65  | 70  | 10.5       | 30  | 90                | 82  | 95  | 30.28               | 30.23 | 30.32 | 46.3        | 16.9 | 62.2        | 66  |
| 10/12/2003 | 0.00        | 43.88          | 66              | 60  | 66  | 6.0        | 16  | 73                | 44  | 89  | 30.14               | 30.09 | 30.21 | 20.8        | 11.8 | 68.5        | 91  |
| 10/13/2003 | 0.00        | 43.88          | 63              | 58  | 79  | 4.3        | 19  | 69                | 37  | 94  | 30.24               | 30.15 | 30.29 | 13.6        | 8.8  | 64.0        | 90  |
| 10/14/2003 | 0.31        | 44.19          | 63              | 48  | 76  | 9.4        | 42  | 75                | 47  | 94  | 30.08               | 29.66 | 30.28 | 25.6        | 11.9 | 62.5        | 86  |
| 10/15/2003 | 0.17        | 44.36          | 61              | 51  | 74  | 13.9       | 44  | 58                | 35  | 94  | 29.94               | 29.67 | 30.29 | 26.7        | 11.6 | 61.7        | 78  |
| 10/16/2003 | 0.00        | 44.36          | 61              | 54  | 68  | 6.9        | 18  | 53                | 30  | 72  | 30.39               | 30.30 | 30.43 | 10.6        | 7.7  | 62.5        | 85  |
| 10/17/2003 | 0.09        | 44.45          | 61              | 50  | 72  | 3.2        | 14  | 75                | 53  | 95  | 30.39               | 30.33 | 30.44 | 16.4        | 8.9  | 62.9        | 86  |
| 10/18/2003 | 0.01        | 44.46          | 53              | 44  | 73  | 5.9        | 21  | 69                | 42  | 93  | 30.34               | 30.30 | 30.39 | 20.5        | 12.1 | 53.5        | 77  |
| 10/19/2003 | 0.00        | 44.46          | 56              | 37  | 64  | 5.2        | 21  | 67                | 44  | 92  | 30.31               | 30.24 | 30.40 | 14.5        | 10.4 | 54.0        | 79  |
| 10/20/2003 | 0.00        | 44.46          | 63              | 40  | 68  | 8.1        | 22  | 68                | 55  | 83  | 30.45               | 30.31 | 30.53 | 12.3        | 9.1  | 64.8        | 87  |
| 10/21/2003 | 0.00        | 44.46          | 68              | 55  | 69  | 10.7       | 30  | 67                | 51  | 80  | 30.00               | 29.83 | 30.29 | 12.3        | 9.3  | 69.4        | 87  |
| 10/22/2003 | 0.00        | 44.46          | 56              | 61  | 77  | 7.1        | 32  | 68                | 47  | 82  | 29.85               | 29.80 | 29.96 | 13.0        | 9.5  | 58.3        | 79  |
| 10/23/2003 | 0.00        | 44.46          | 45              | 44  | 66  | 7.4        | 25  | 55                | 38  | 72  | 30.05               | 29.96 | 30.23 | 11.3        | 9.3  | 46.4        | 62  |
| 10/24/2003 | 0.00        | 44.46          | 48              | 35  | 53  | 2.8        | 16  | 58                | 33  | 94  | 30.49               | 30.25 | 30.67 | 10.6        | 7.7  | 48.2        | 76  |
| 10/25/2003 | 0.00        | 44.46          | 58              | 34  | 61  | 6.8        | 18  | 74                | 52  | 91  | 30.70               | 30.64 | 30.74 | 13.0        | 9.5  | 58.5        | 83  |
| 10/26/2003 | 0.20        | 44.66          | 63              | 35  | 69  | 8.3        | 19  | 90                | 81  | 95  | 30.13               | 29.97 | 30.33 | 39.4        | 15.2 | 63.7        | 69  |
| 10/27/2003 | 0.08        | 44.74          | 63              | 62  | 67  | 8.6        | 22  | 89                | 80  | 94  | 30.17               | 30.02 | 30.24 | 44.1        | 23.3 | 62.0        | 70  |
| 10/28/2003 | 0.42        | 45.16          | 55              | 52  | 69  | 7.4        | 21  | 78                | 68  | 94  | 30.03               | 29.81 | 30.30 | 30.0        | 16.7 | 55.5        | 62  |
| 10/29/2003 | 2.77        | 47.94          | 56              | 50  | 62  | 5.4        | 24  | 77                | 63  | 91  | 30.53               | 30.32 | 30.62 | 38.1        | 19.9 | 56.2        | 71  |
| 10/30/2003 | 0.00        | 48.54          | 55              | 43  | 63  | 2.7        | 36  | 57                | 31  | 86  | 30.60               | 30.56 | 30.64 | 16.4        | 7.6  | 54.3        | 81  |
| 10/31/2003 | 0.00        | 47.94          | 59              | 39  | 68  | 3.2        | 9   | 85                | 56  | 100 | 30.53               | 30.49 | 30.60 | 14.6        | 11.1 | 58.4        | 84  |

### Monthly summary:

| Total rain  | Annual rain  | Avg temp  | Min temp  | Max temp  | Avg wind   | Max wind  | Avg RH    | Min RH   | Max RH     | Avg BP       | Min BP       | Max BP       | Avg FM       | Min FM     | Avg FT       | Max FT    |
|-------------|--------------|-----------|-----------|-----------|------------|-----------|-----------|----------|------------|--------------|--------------|--------------|--------------|------------|--------------|-----------|
| <b>4.31</b> | <b>48.54</b> | <b>60</b> | <b>34</b> | <b>80</b> | <b>6.8</b> | <b>44</b> | <b>69</b> | <b>4</b> | <b>100</b> | <b>30.31</b> | <b>29.66</b> | <b>30.74</b> | <b>18.64</b> | <b>6.9</b> | <b>61.15</b> | <b>96</b> |

## November 2003

|            | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|------------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date       | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 11/1/2003  | 0.00                 | 47.94                | 62                             | 45  | 71  | 3.6                 | 10  | 88                             | 59  | 100 | 30.52                           | 30.49 | 30.55 | 21.3                     | 14.3 | 61.9                      | 84  |
| 11/2/2003  | 0.00                 | 47.94                | 62                             | 56  | 72  | 1.9                 | 12  | 90                             | 62  | 100 | 30.51                           | 30.49 | 30.55 | 18.0                     | 14.4 | 60.8                      | 84  |
| 11/3/2003  | 0.00                 | 47.94                | 64                             | 54  | 74  | 3.9                 | 13  | 92                             | 67  | 100 | 30.47                           | 30.42 | 30.52 | 19.5                     | 14.4 | 63.3                      | 87  |
| 11/4/2003  | 0.00                 | 47.94                | 67                             | 54  | 75  | 2.4                 | 10  | 96                             | 73  | 100 | 30.42                           | 30.40 | 30.45 | 30.1                     | 16.4 | 67.7                      | 89  |
| 11/5/2003  | 0.00                 | 47.94                | 67                             | 56  | 78  | 6.3                 | 20  | 98                             | 88  | 100 | 30.39                           | 30.35 | 30.44 | 23.1                     | 16.8 | 69.1                      | 85  |
| 11/6/2003  | 1.24                 | 49.18                | 65                             | 64  | 74  | 5.6                 | 25  | 100                            | 100 | 100 | 30.33                           | 30.25 | 30.40 | 52.4                     | 24   | 65.5                      | 70  |
| 11/7/2003  | 0.00                 | 49.18                | 59                             | 61  | 70  | 5.4                 | 20  | 85                             | 60  | 100 | 30.42                           | 30.30 | 30.51 | 38.7                     | 19.2 | 58.5                      | 65  |
| 11/8/2003  | 0.00                 | 49.18                | 50                             | 53  | 64  | 8.7                 | 23  | 48                             | 33  | 68  | 30.68                           | 30.51 | 30.86 | 15.6                     | 13.9 | 50.1                      | 66  |
| 11/9/2003  | 0.00                 | 49.18                | 43                             | 40  | 57  | 8.1                 | 23  | 52                             | 42  | 72  | 30.91                           | 30.86 | 30.97 | 14.3                     | 13.9 | 43.1                      | 61  |
| 11/10/2003 | 0.00                 | 49.18                | 45                             | 39  | 51  | 4.2                 | 14  | 61                             | 42  | 100 | 30.77                           | 30.67 | 30.87 | 14.0                     | 12.7 | 43.4                      | 69  |
| 11/11/2003 | 0.00                 | 49.18                | 54                             | 35  | 56  | 6.4                 | 18  | 88                             | 73  | 100 | 30.49                           | 30.33 | 30.64 | 15.8                     | 14.6 | 54.1                      | 72  |
| 11/12/2003 | 0.00                 | 49.18                | 60                             | 35  | 65  | 4.7                 | 18  | 88                             | 71  | 100 | 30.17                           | 29.98 | 30.30 | 17.6                     | 15.3 | 59.6                      | 67  |
| 11/13/2003 | 0.00                 | 49.18                | 53                             | 57  | 64  | 18.5                | 45  | 53                             | 29  | 100 | 30.01                           | 29.82 | 30.22 | 17.9                     | 14.4 | 52.9                      | 63  |
| 11/14/2003 | 0.00                 | 49.18                | 43                             | 40  | 66  | 13.0                | 39  | 46                             | 37  | 58  | 30.30                           | 30.22 | 30.34 | 13.8                     | 13.1 | 43.6                      | 55  |
| 11/15/2003 | 0.00                 | 49.18                | 47                             | 37  | 48  | 5.3                 | 17  | 65                             | 45  | 100 | 30.41                           | 30.32 | 30.49 | 14.0                     | 12.9 | 45.8                      | 63  |
| 11/16/2003 | 0.00                 | 49.18                | 50                             | 39  | 56  | 2.9                 | 13  | 87                             | 68  | 100 | 30.49                           | 30.46 | 30.53 | 17.0                     | 14.7 | 50.2                      | 65  |
| 11/17/2003 | 0.00                 | 49.18                | 54                             | 42  | 59  | 2.7                 | 10  | 93                             | 79  | 100 | 30.50                           | 30.45 | 30.58 | 18.8                     | 15.6 | 52.9                      | 73  |
| 11/18/2003 | 0.00                 | 49.18                | 57                             | 43  | 63  | 9.7                 | 20  | 94                             | 84  | 100 | 30.53                           | 30.36 | 30.61 | 19.9                     | 16.8 | 56.4                      | 67  |
| 11/19/2003 | 1.01                 | 50.19                | 61                             | 48  | 60  | 11.8                | 29  | 100                            | 97  | 100 | 30.04                           | 29.76 | 30.34 | 43.8                     | 25   | 61.4                      | 71  |
| 11/20/2003 | 0.29                 | 50.48                | 53                             | 52  | 66  | 9.3                 | 31  | 68                             | 46  | 100 | 30.09                           | 29.82 | 30.27 | 33.2                     | 17.2 | 53.3                      | 65  |
| 11/21/2003 | 0.00                 | 50.48                | 55                             | 47  | 59  | 5.0                 | 17  | 71                             | 40  | 100 | 30.28                           | 30.23 | 30.32 | 16.2                     | 14.4 | 52.4                      | 79  |
| 11/22/2003 | 0.00                 | 50.48                | 52                             | 46  | 70  | 3.1                 | 12  | 86                             | 70  | 100 | 30.39                           | 30.31 | 30.46 | 16.4                     | 14.7 | 49.4                      | 76  |
| 11/23/2003 | 0.00                 | 50.48                | 55                             | 39  | 64  | 7.1                 | 15  | 92                             | 73  | 100 | 30.46                           | 30.40 | 30.51 | 20.2                     | 15.6 | 55.3                      | 76  |
| 11/24/2003 | 0.00                 | 50.48                | 58                             | 46  | 64  | 9.1                 | 33  | 94                             | 82  | 100 | 30.25                           | 30.08 | 30.39 | 25.8                     | 17.4 | 58.5                      | 75  |
| 11/25/2003 | 0.00                 | 50.48                | 42                             | 44  | 66  | 6.7                 | 30  | 64                             | 41  | 83  | 30.42                           | 30.23 | 30.48 | 16.2                     | 14.9 | 41.0                      | 58  |
| 11/26/2003 | 0.00                 | 50.48                | 47                             | 32  | 50  | 1.5                 | 9   | 79                             | 64  | 91  | 30.48                           | 30.45 | 30.51 | 16.1                     | 14.9 | 45.4                      | 65  |
| 11/27/2003 | 0.00                 | 50.48                | 52                             | 32  | 56  | 4.0                 | 16  | 86                             | 68  | 100 | 30.48                           | 30.36 | 30.54 | 16.2                     | 15   | 52.0                      | 70  |
| 11/28/2003 | 0.04                 | 50.52                | 58                             | 41  | 61  | 11.2                | 33  | 99                             | 93  | 100 | 30.02                           | 29.69 | 30.33 | 24.3                     | 17.3 | 59.1                      | 70  |
| 11/29/2003 | 0.00                 | 50.52                | 44                             | 46  | 63  | 18.0                | 42  | 56                             | 45  | 76  | 30.12                           | 29.83 | 30.38 | 23.6                     | 16.4 | 43.6                      | 52  |
| 11/30/2003 | 0.00                 | 50.52                | 45                             | 39  | 49  | 8.1                 | 25  | 59                             | 49  | 73  | 30.31                           | 30.24 | 30.38 | 16.0                     | 15.2 | 43.5                      | 55  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH  | Avg<br>BP    | Min<br>BP    | Max<br>BP    | Avg<br>FM    | Min<br>FM   | Avg<br>FT    | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|-------------|--------------|-----------|
| <b>2.58</b>   | <b>50.52</b>   | <b>54</b>   | <b>32</b>   | <b>78</b>   | <b>6.9</b>  | <b>45</b>   | <b>79</b> | <b>29</b> | <b>100</b> | <b>30.39</b> | <b>29.69</b> | <b>30.97</b> | <b>21.66</b> | <b>12.7</b> | <b>53.79</b> | <b>89</b> |

## December 2003

|            | Rainfall<br>[Inches] |                      | Air Temperature<br>[Degrees F] |     |     | Wind speed<br>[MPH] |     | Relative Humidity<br>[Percent] |     |     | Barometric Pressure<br>[Inches] |       |       | Fuel Moist.<br>[Percent] |      | Fuel Temp.<br>[Degrees F] |     |
|------------|----------------------|----------------------|--------------------------------|-----|-----|---------------------|-----|--------------------------------|-----|-----|---------------------------------|-------|-------|--------------------------|------|---------------------------|-----|
| Date       | Daily<br>Total       | Total<br>for<br>year | Avg                            | Min | Max | Avg                 | Max | Avg                            | Min | Max | Avg                             | Min   | Max   | Avg                      | Min  | Avg                       | Max |
| 12/1/2003  | 0.00                 | 50.52                | 49                             | 37  | 50  | 8.0                 | 30  | 52                             | 31  | 74  | 30.28                           | 30.18 | 30.49 | 14.7                     | 13.8 | 47.9                      | 69  |
| 12/2/2003  | 0.00                 | 50.52                | 39                             | 39  | 60  | 9.7                 | 27  | 38                             | 31  | 46  | 30.58                           | 30.49 | 30.73 | 13.6                     | 12.9 | 38.6                      | 52  |
| 12/3/2003  | 0.00                 | 50.52                | 32                             | 32  | 46  | 6.0                 | 19  | 42                             | 28  | 59  | 30.82                           | 30.73 | 30.88 | 13.1                     | 12.2 | 30.9                      | 48  |
| 12/4/2003  | 0.02                 | 50.54                | 37                             | 28  | 39  | 3.7                 | 17  | 62                             | 40  | 85  | 30.72                           | 30.52 | 30.84 | 15.4                     | 13.3 | 35.1                      | 49  |
| 12/5/2003  | 1.81                 | 52.35                | 47                             | 26  | 45  | 22.1                | 45  | 99                             | 86  | 100 | 30.18                           | 30.01 | 30.49 | 55.0                     | 55   | 46.5                      | 50  |
| 12/6/2003  | 0.09                 | 52.44                | 34                             | 43  | 49  | 11.0                | 27  | 89                             | 70  | 100 | 30.10                           | 30.01 | 30.21 | 45.3                     | 23.9 | 33.7                      | 48  |
| 12/7/2003  | 0.01                 | 52.45                | 32                             | 31  | 48  | 10.6                | 31  | 62                             | 53  | 76  | 30.24                           | 30.18 | 30.35 | 20.4                     | 18.3 | 32.0                      | 40  |
| 12/8/2003  | 0.00                 | 52.45                | 34                             | 29  | 36  | 4.6                 | 18  | 60                             | 42  | 87  | 30.44                           | 30.36 | 30.50 | 16.9                     | 15.9 | 33.4                      | 51  |
| 12/9/2003  | 0.00                 | 52.45                | 38                             | 25  | 43  | 2.6                 | 10  | 70                             | 43  | 100 | 30.53                           | 30.50 | 30.58 | 16.2                     | 15.2 | 36.6                      | 56  |
| 12/10/2003 | 0.17                 | 52.62                | 50                             | 25  | 48  | 11.6                | 29  | 94                             | 76  | 100 | 30.25                           | 29.85 | 30.49 | 29.5                     | 16.2 | 49.7                      | 63  |
| 12/11/2003 | 1.41                 | 54.03                | 50                             | 43  | 55  | 18.3                | 41  | 80                             | 59  | 100 | 29.79                           | 29.57 | 30.12 | 38.9                     | 19.6 | 49.4                      | 56  |
| 12/12/2003 | 0.00                 | 54.03                | 39                             | 40  | 58  | 6.2                 | 30  | 62                             | 45  | 73  | 30.38                           | 30.15 | 30.56 | 17.2                     | 15.8 | 38.6                      | 55  |
| 12/13/2003 | 0.00                 | 54.03                | 35                             | 33  | 49  | 7.7                 | 25  | 55                             | 38  | 70  | 30.67                           | 30.56 | 30.75 | 15.4                     | 14.9 | 36.0                      | 50  |
| 12/14/2003 | 1.38                 | 55.41                | 46                             | 32  | 43  | 20.3                | 44  | 94                             | 71  | 100 | 30.17                           | 29.89 | 30.59 | 43.8                     | 15.6 | 45.5                      | 53  |
| 12/15/2003 | 0.01                 | 55.42                | 40                             | 37  | 54  | 13.5                | 35  | 76                             | 54  | 100 | 30.22                           | 29.90 | 30.49 | 31.5                     | 18.9 | 38.8                      | 50  |
| 12/16/2003 | 0.00                 | 55.42                | 41                             | 32  | 46  | 5.1                 | 17  | 92                             | 73  | 100 | 30.46                           | 30.31 | 30.55 | 19.5                     | 18.4 | 38.9                      | 55  |
| 12/17/2003 | 0.81                 | 56.23                | 46                             | 27  | 51  | 12.2                | 38  | 91                             | 61  | 100 | 29.98                           | 29.74 | 30.27 | 39.3                     | 20.4 | 45.6                      | 54  |
| 12/18/2003 | 0.00                 | 56.23                | 36                             | 34  | 55  | 10.0                | 28  | 64                             | 45  | 89  | 30.07                           | 30.01 | 30.12 | 21.0                     | 17.3 | 36.3                      | 50  |
| 12/19/2003 | 0.00                 | 56.23                | 34                             | 30  | 43  | 6.1                 | 19  | 64                             | 53  | 78  | 30.09                           | 30.04 | 30.17 | 16.6                     | 15.9 | 34.4                      | 43  |
| 12/20/2003 | 0.00                 | 56.23                | 35                             | 32  | 41  | 6.5                 | 19  | 65                             | 50  | 81  | 30.31                           | 30.16 | 30.55 | 15.8                     | 15.2 | 35.6                      | 51  |
| 12/21/2003 | 0.00                 | 56.23                | 36                             | 32  | 42  | 8.5                 | 20  | 55                             | 32  | 73  | 30.63                           | 30.56 | 30.74 | 14.9                     | 14.4 | 36.4                      | 52  |
| 12/22/2003 | 0.00                 | 56.23                | 43                             | 29  | 45  | 7.5                 | 20  | 56                             | 35  | 81  | 30.49                           | 30.44 | 30.54 | 14.3                     | 13.4 | 42.0                      | 61  |
| 12/23/2003 | 0.00                 | 56.23                | 48                             | 37  | 53  | 8.5                 | 22  | 83                             | 63  | 100 | 30.41                           | 30.30 | 30.48 | 15.1                     | 14   | 48.6                      | 62  |
| 12/24/2003 | 1.68                 | 57.91                | 49                             | 42  | 55  | 9.0                 | 29  | 99                             | 92  | 100 | 30.12                           | 29.99 | 30.27 | 51.6                     | 16.9 | 48.7                      | 53  |
| 12/25/2003 | 0.01                 | 57.92                | 40                             | 41  | 53  | 8.3                 | 24  | 65                             | 51  | 95  | 30.30                           | 30.17 | 30.44 | 27.6                     | 17.9 | 38.5                      | 51  |
| 12/26/2003 | 0.00                 | 57.92                | 38                             | 34  | 45  | 10.3                | 28  | 61                             | 53  | 72  | 30.46                           | 30.42 | 30.53 | 16.6                     | 15.5 | 38.0                      | 49  |
| 12/27/2003 | 0.00                 | 57.92                | 40                             | 32  | 45  | 5.7                 | 20  | 63                             | 48  | 80  | 30.51                           | 30.40 | 30.60 | 15.1                     | 14.3 | 39.8                      | 58  |
| 12/28/2003 | 0.00                 | 57.92                | 40                             | 34  | 51  | 3.1                 | 11  | 90                             | 70  | 100 | 30.63                           | 30.57 | 30.69 | 16.5                     | 15   | 39.2                      | 62  |
| 12/29/2003 | 0.00                 | 57.92                | 43                             | 32  | 53  | 5.5                 | 16  | 96                             | 81  | 100 | 30.47                           | 30.31 | 30.58 | 19.4                     | 16.5 | 41.0                      | 62  |
| 12/30/2003 | 0.00                 | 57.92                | 49                             | 32  | 53  | 8.0                 | 28  | 78                             | 47  | 100 | 30.33                           | 30.16 | 30.59 | 24.5                     | 16.4 | 48.0                      | 66  |
| 12/31/2003 | 0.00                 | 0.00                 | 42                             | 37  | 60  | 5.3                 | 21  | 70                             | 41  | 90  | 30.60                           | 30.50 | 30.70 | 16.0                     | 14.9 | 41.0                      | 62  |

### Monthly summary:

| Total<br>rain | Annual<br>rain | Avg<br>temp | Min<br>temp | Max<br>temp | Avg<br>wind | Max<br>wind | Avg<br>RH | Min<br>RH | Max<br>RH | Avg<br>BP | Min<br>BP | Max<br>BP | Avg<br>FM | Min<br>FM | Avg<br>FT | Max<br>FT |
|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 7.4           | 57.92          | 41          | 25          | 60          | 8.9         | 45          | 72        | 28        | 100       | 30.36     | 29.57     | 30.88     | 23.57     | 12.2      | 40.15     | 69        |