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Custom Weather Forensics Solutions

Wind Observations near
123 Main St.
Pahokee, FL 33476

For the period 12:00 AM EST February 24, 2010 to
10:00 PM EST February 26, 2010

by

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Claim #: 123456
Insured: Johnson

Date Prepared: April 7, 2010



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Network (FAWN) records of weather data. Weather experts at WDT have carefully examined the information presented here to ensure the most accurate depiction precipitation based upon the available data.

Introduction

Weather Decision Technologies, Inc. (WDT) has been requested by Mr. Smith of Generic Insurance Company to assess the wind observations near 123 Main Street, Pahokee, FL 33476 for the time period of 12:00 AM EST February 24, 2010 to 12:00 AM EST February 26, 2010. This report describes the source of the weather data used in this investigation and the results from WDT's interrogation and analysis of these available weather data.

Data

The weather data used in this investigation were obtained from the Florida Automated Weather Network (FAWN). The Belle Glade station data for the time period were retrieved from the FAWN. The Belle Glade wind speed data is in miles per hour and the wind direction data is in degrees. The average wind speed, average wind direction, and maximum wind speed over the previous 15 minute time period are reported every 15 minutes.

The Belle Glade FAWN station is located approximately 11 miles south-southeast of the address. A map of the address of interest and the Belle Glade FAWN station can be seen in Figure 1.

Summary/Conclusions

The observations from the Belle Glade FAWN station were carefully examined for the time period of interest. The average 15-minute wind speed data have been retrieved and examined (Fig. 2). At Belle Glade, a maximum average speed of 20.9 mph was observed at 5:00 AM on February 25, 2010. The maximum wind gust data have also been retrieved and are shown in Figure 3. The maximum wind gust speed was 30.1 mph at 9:45 AM on February 25, 2010. The wind direction is shown in Figure 4. At Belle Glade, the wind direction was primarily from the east for the morning of February 24, 2010, then gradually shifted from east to south to west to primarily from the northwest and north-northwest until 6:15 PM on February 25, 2010. A few abrupt wind shifts occurred between 6:00 PM and 8:00 PM on February 24, 2010, when the wind shifted from north-northwest to west, and back to northwest. After 6:15 PM, the winds shifted from the north-northwest to west, then briefly back to the northwest, before shifting again toward the west for the rest of the time period.

Figures

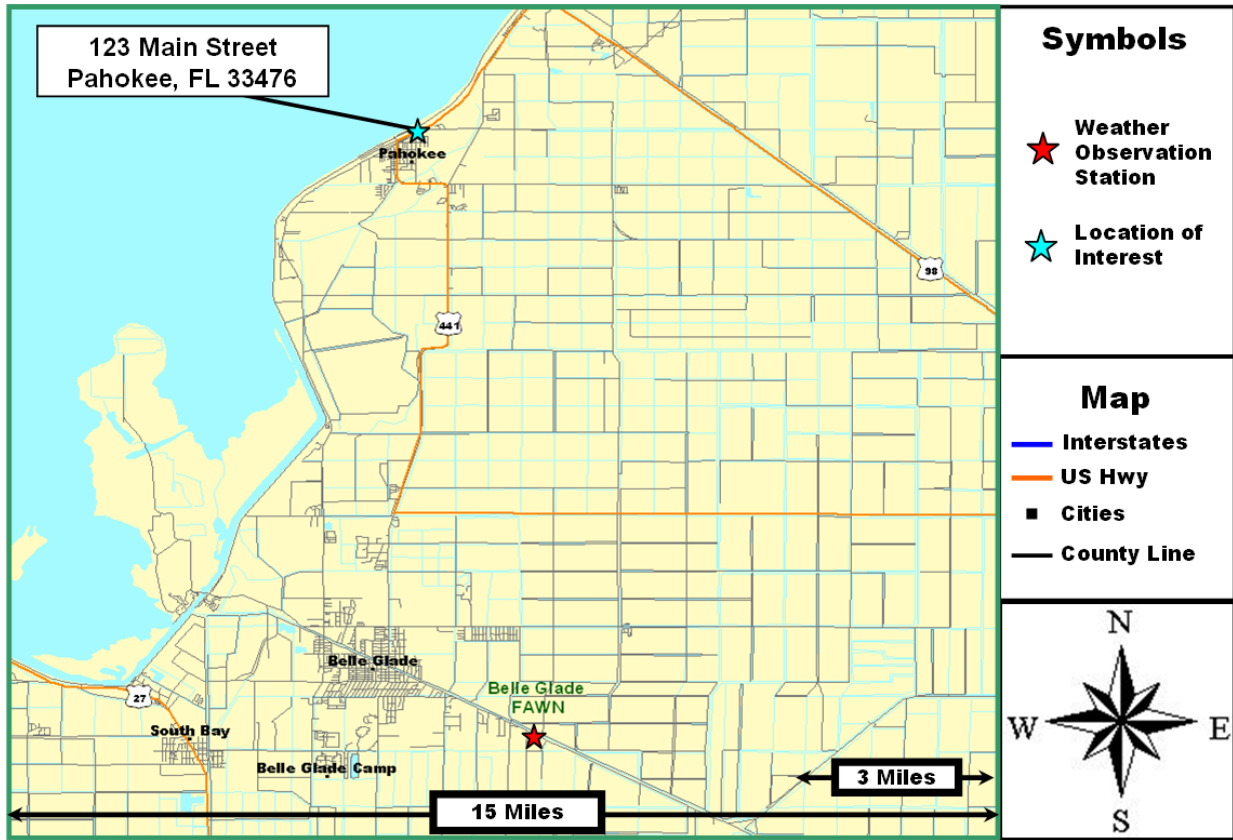


Figure 1. 15x15 mile map of 123 Main Street, Pahokee, FL 33476 and the Belle Glade FAWN station.

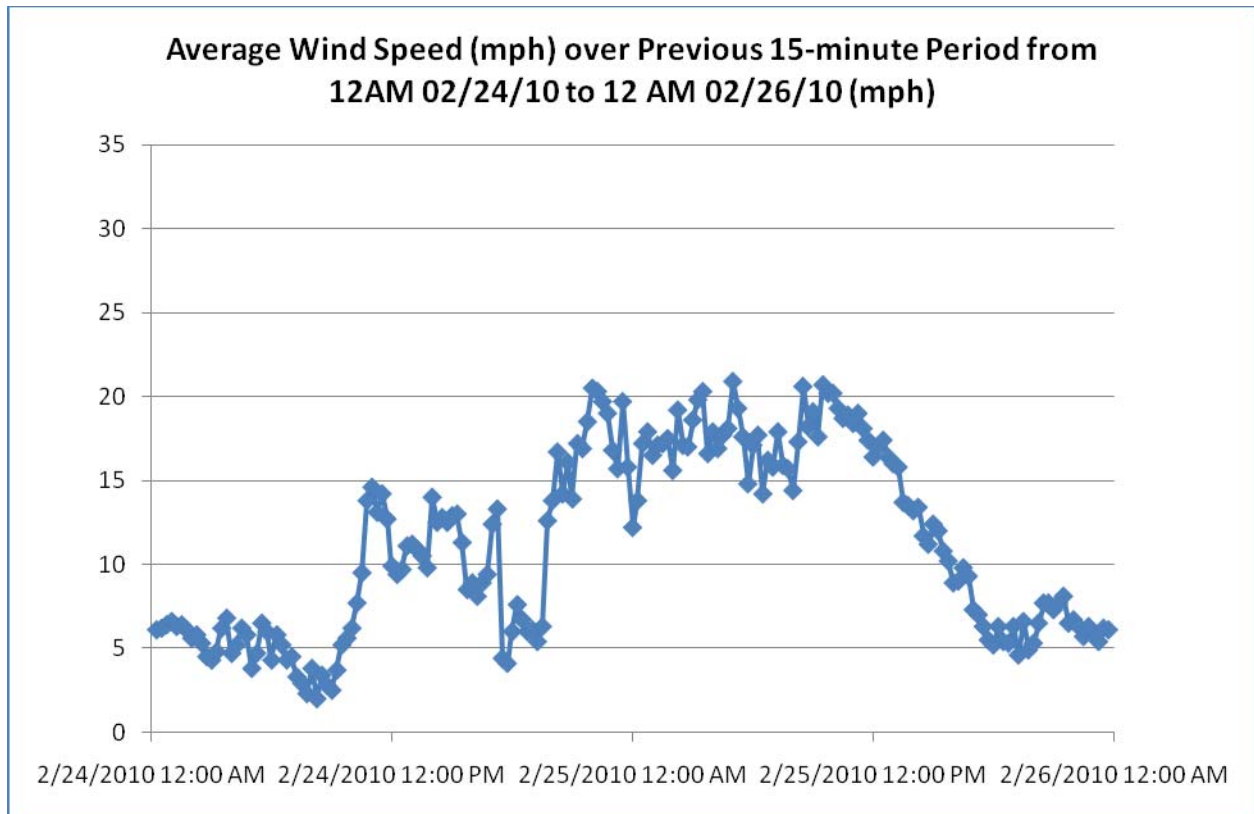


Figure 2. Average Wind Speed (mph) as recorded by the Belle Glade FAWN station from 12:00 AM EST February 24, 2010 to 12:00 AM EST February 25, 2010.

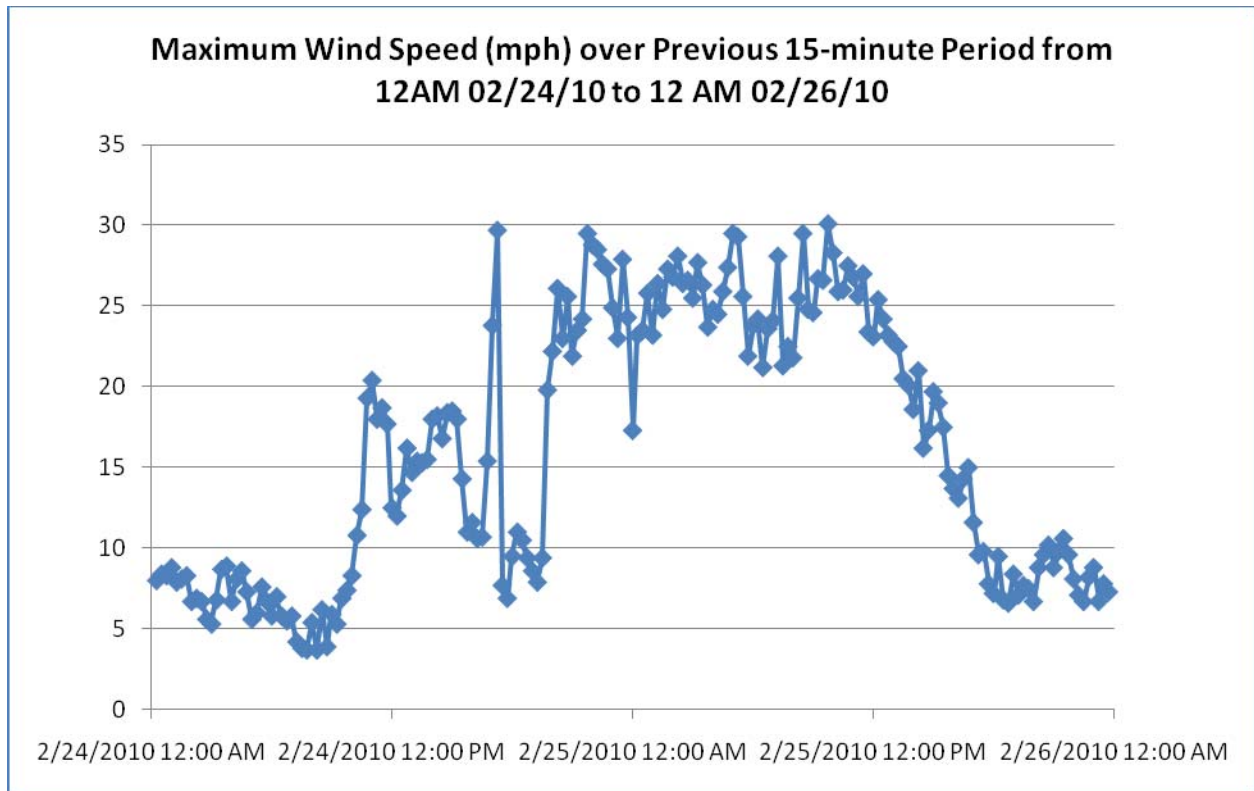


Figure 3. Maximum Wind Speed (mph) as recorded by the Belle Glade FAWN station from 12:00 AM EST February 24, 2010 to 12:00 AM EST February 25, 2010.

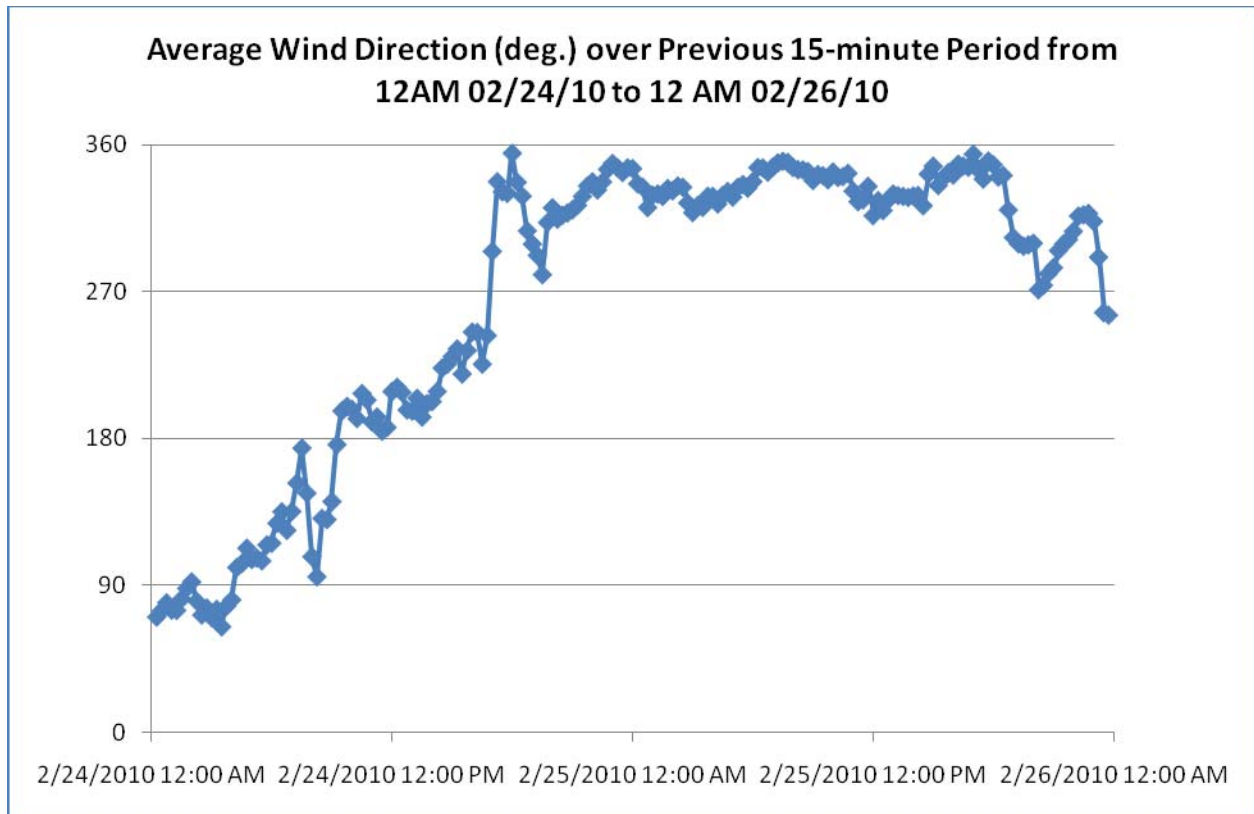


Figure 4. Average Wind Direction (degrees) as recorded by the Belle Glade FAWN station from 12:00 AM EST February 24, 2010 to 12:00 AM EST February 25, 2010.

Appendix 1. Reported wind observations at the Belle Glade FAWN station from 12:00 AM EST February 24, 2010 to 12:00 AM EST February 26, 2010. Wind speed is in miles per hour (mph). The average 15-minute wind direction is relative to true north (e.g. 0 degrees = north, 180 degrees = south, 135 degrees = southeast, 225 degrees = southwest) and denotes the direction from which the wind is blowing.

Observation Date/Time	Ave. Wind Speed over 15 mins. (mph)	Max. Wind Speed (mph)	Ave. Wind Direction over 15 mins. (deg)
2/24/2010 12:15 AM	6.1	8.0	70.4
2/24/2010 12:30 AM	6.2	8.4	74.4
2/24/2010 12:45 AM	6.4	8.3	79.2
2/24/2010 01:00 AM	6.6	8.8	74.7
2/24/2010 01:15 AM	6.3	7.9	74.5
2/24/2010 01:30 AM	6.4	8.1	81.6
2/24/2010 01:45 AM	6.1	8.3	88.0
2/24/2010 02:00 AM	5.6	6.7	92.0
2/24/2010 02:15 AM	5.8	6.9	80.2
2/24/2010 02:30 AM	5.3	6.7	71.7
2/24/2010 02:45 AM	4.5	5.6	76.0
2/24/2010 03:00 AM	4.3	5.3	70.1
2/24/2010 03:15 AM	4.8	6.8	75.1
2/24/2010 03:30 AM	6.2	8.7	64.4
2/24/2010 03:45 AM	6.8	8.9	77.1
2/24/2010 04:00 AM	4.7	6.7	80.9
2/24/2010 04:15 AM	5.2	8.1	100.8
2/24/2010 04:30 AM	6.2	8.6	103.3
2/24/2010 04:45 AM	5.8	7.3	112.7
2/24/2010 05:00 AM	3.8	5.6	105.7
2/24/2010 05:15 AM	4.7	6.0	106.6
2/24/2010 05:30 AM	6.5	7.6	104.9
2/24/2010 05:45 AM	6.0	6.7	114.7
2/24/2010 06:00 AM	4.3	5.8	115.7
2/24/2010 06:15 AM	5.8	7.0	127.9
2/24/2010 06:30 AM	5.2	5.8	135.0
2/24/2010 06:45 AM	4.3	5.5	123.6
2/24/2010 07:00 AM	4.5	5.8	135.2
2/24/2010 07:15 AM	3.3	4.2	152.6
2/24/2010 07:30 AM	2.9	3.8	174.1
2/24/2010 07:45 AM	2.3	3.7	146.4

2/24/2010 08:00 AM	3.8	5.4	107.5
2/24/2010 08:15 AM	2.0	3.7	95.2
2/24/2010 08:30 AM	3.4	6.2	130.9
2/24/2010 08:45 AM	2.8	3.9	130.2
2/24/2010 09:00 AM	2.5	5.9	141.3
2/24/2010 09:15 AM	3.7	5.3	176.2
2/24/2010 09:30 AM	5.2	6.9	196.9
2/24/2010 09:45 AM	5.6	7.4	199.7
2/24/2010 10:00 AM	6.2	8.3	197.9
2/24/2010 10:15 AM	7.7	10.8	192.2
2/24/2010 10:30 AM	9.5	12.4	207.6
2/24/2010 10:45 AM	13.8	19.3	203.6
2/24/2010 11:00 AM	14.6	20.4	190.1
2/24/2010 11:15 AM	13.1	18.0	193.2
2/24/2010 11:30 AM	14.2	18.7	184.4
2/24/2010 11:45 AM	12.7	17.7	186.8
2/24/2010 12:00 PM	9.9	12.5	208.8
2/24/2010 12:15 PM	9.4	12.0	211.4
2/24/2010 12:30 PM	9.7	13.6	208.2
2/24/2010 12:45 PM	11.1	16.2	197.5
2/24/2010 01:00 PM	11.2	14.7	196.8
2/24/2010 01:15 PM	10.9	15.4	204.6
2/24/2010 01:30 PM	10.5	15.3	193.1
2/24/2010 01:45 PM	9.8	15.5	201.4
2/24/2010 02:00 PM	14.0	18.0	202.6
2/24/2010 02:15 PM	12.5	18.2	208.8
2/24/2010 02:30 PM	12.8	16.8	223.2
2/24/2010 02:45 PM	12.5	18.4	225.5
2/24/2010 03:00 PM	12.9	18.5	230.3
2/24/2010 03:15 PM	13.0	18.0	235.0
2/24/2010 03:30 PM	11.3	14.3	219.6
2/24/2010 03:45 PM	8.5	11.0	234.0
2/24/2010 04:00 PM	8.9	11.6	245.3
2/24/2010 04:15 PM	8.1	10.6	245.0
2/24/2010 04:30 PM	8.9	10.7	225.6
2/24/2010 04:45 PM	9.4	15.4	243.2
2/24/2010 05:00 PM	12.4	23.8	294.8
2/24/2010 05:15 PM	13.3	29.7	337.6

2/24/2010 05:30 PM	4.4	7.7	331.3
2/24/2010 05:45 PM	4.1	6.9	330.4
2/24/2010 06:00 PM	6.0	9.5	355.0
2/24/2010 06:15 PM	7.6	11.0	337.2
2/24/2010 06:30 PM	6.7	10.5	328.7
2/24/2010 06:45 PM	6.0	9.4	307.4
2/24/2010 07:00 PM	6.1	8.6	299.3
2/24/2010 07:15 PM	5.4	7.9	292.4
2/24/2010 07:30 PM	6.3	9.4	280.5
2/24/2010 07:45 PM	12.6	19.8	312.5
2/24/2010 08:00 PM	13.8	22.2	321.6
2/24/2010 08:15 PM	16.7	26.1	314.6
2/24/2010 08:30 PM	14.2	23.0	317.0
2/24/2010 08:45 PM	16.1	25.6	318.4
2/24/2010 09:00 PM	13.9	21.9	320.3
2/24/2010 09:15 PM	17.2	23.5	323.0
2/24/2010 09:30 PM	16.9	24.2	328.6
2/24/2010 09:45 PM	18.5	29.5	334.9
2/24/2010 10:00 PM	20.5	28.8	337.5
2/24/2010 10:15 PM	20.3	28.5	332.5
2/24/2010 10:30 PM	19.7	27.6	337.4
2/24/2010 10:45 PM	19.0	27.3	345.1
2/24/2010 11:00 PM	16.8	24.9	348.8
2/24/2010 11:15 PM	15.7	23.0	346.1
2/24/2010 11:30 PM	19.7	27.9	343.2
2/24/2010 11:45 PM	15.8	24.3	346.1
2/25/2010 12:00 AM	12.2	17.3	345.6
2/25/2010 12:15 AM	13.8	23.2	336.3
2/25/2010 12:30 AM	17.2	23.5	334.3
2/25/2010 12:45 AM	17.9	25.8	321.7
2/25/2010 01:00 AM	16.5	23.2	329.3
2/25/2010 01:15 AM	17.1	26.4	330.0
2/25/2010 01:30 AM	17.2	24.8	328.6
2/25/2010 01:45 AM	17.5	27.3	333.4
2/25/2010 02:00 AM	15.6	26.8	332.0
2/25/2010 02:15 AM	19.2	28.1	334.9
2/25/2010 02:30 AM	17.1	26.4	334.2
2/25/2010 02:45 AM	17.0	26.6	324.5

2/25/2010 03:00 AM	18.6	25.5	318.6
2/25/2010 03:15 AM	19.8	27.7	323.0
2/25/2010 03:30 AM	20.3	26.3	321.8
2/25/2010 03:45 AM	16.6	23.7	328.6
2/25/2010 04:00 AM	17.9	24.8	328.5
2/25/2010 04:15 AM	16.9	24.5	323.9
2/25/2010 04:30 AM	17.7	25.9	329.2
2/25/2010 04:45 AM	18.1	27.4	331.5
2/25/2010 05:00 AM	20.9	29.5	328.1
2/25/2010 05:15 AM	19.3	29.3	334.1
2/25/2010 05:30 AM	17.6	25.6	335.9
2/25/2010 05:45 AM	14.8	21.9	333.6
2/25/2010 06:00 AM	17.1	23.8	337.6
2/25/2010 06:15 AM	17.7	24.2	346.2
2/25/2010 06:30 AM	14.2	21.2	346.0
2/25/2010 06:45 AM	16.2	23.6	343.4
2/25/2010 07:00 AM	15.8	24.1	346.6
2/25/2010 07:15 AM	17.9	28.1	349.1
2/25/2010 07:30 AM	15.9	21.3	350.1
2/25/2010 07:45 AM	15.7	22.5	349.4
2/25/2010 08:00 AM	14.4	21.8	346.3
2/25/2010 08:15 AM	17.3	25.5	344.9
2/25/2010 08:30 AM	20.6	29.5	344.8
2/25/2010 08:45 AM	18.2	24.8	343.8
2/25/2010 09:00 AM	19.1	24.6	338.3
2/25/2010 09:15 AM	17.6	26.7	342.0
2/25/2010 09:30 AM	20.7	26.6	341.3
2/25/2010 09:45 AM	20.2	30.1	338.7
2/25/2010 10:00 AM	20.2	28.3	343.5
2/25/2010 10:15 AM	19.3	25.9	340.1
2/25/2010 10:30 AM	18.7	26.0	340.7
2/25/2010 10:45 AM	18.9	27.5	342.7
2/25/2010 11:00 AM	18.4	26.8	331.8
2/25/2010 11:15 AM	19.0	25.6	325.3
2/25/2010 11:30 AM	18.1	27.0	326.4
2/25/2010 11:45 AM	17.4	23.4	334.7
2/25/2010 12:00 PM	16.4	23.1	316.7
2/25/2010 12:15 PM	17.0	25.4	326.0

2/25/2010 12:30 PM	17.4	24.2	319.8
2/25/2010 12:45 PM	16.4	23.2	326.3
2/25/2010 01:00 PM	16.0	22.8	330.0
2/25/2010 01:15 PM	15.8	22.5	329.0
2/25/2010 01:30 PM	13.7	20.5	328.5
2/25/2010 01:45 PM	13.5	20.1	327.9
2/25/2010 02:00 PM	13.2	18.6	328.8
2/25/2010 02:15 PM	13.4	21.0	329.1
2/25/2010 02:30 PM	11.7	16.2	322.8
2/25/2010 02:45 PM	11.2	17.3	342.2
2/25/2010 03:00 PM	12.4	19.7	347.1
2/25/2010 03:15 PM	12.0	19.0	335.2
2/25/2010 03:30 PM	10.8	17.5	339.7
2/25/2010 03:45 PM	10.2	14.5	343.2
2/25/2010 04:00 PM	8.9	13.7	341.6
2/25/2010 04:15 PM	9.0	13.1	348.3
2/25/2010 04:30 PM	9.8	14.3	347.2
2/25/2010 04:45 PM	9.3	15.0	346.4
2/25/2010 05:00 PM	7.3	11.6	354.5
2/25/2010 05:15 PM	7.0	9.6	344.8
2/25/2010 05:30 PM	6.3	9.8	339.2
2/25/2010 05:45 PM	5.5	7.8	350.3
2/25/2010 06:00 PM	5.2	7.2	347.9
2/25/2010 06:15 PM	6.3	9.5	340.4
2/25/2010 06:30 PM	5.4	6.8	341.4
2/25/2010 06:45 PM	5.3	6.6	320.2
2/25/2010 07:00 PM	6.3	8.4	303.3
2/25/2010 07:15 PM	4.6	7.1	299.5
2/25/2010 07:30 PM	6.6	7.7	298.0
2/25/2010 07:45 PM	4.9	7.5	298.8
2/25/2010 08:00 PM	5.3	6.7	299.8
2/25/2010 08:15 PM	6.5	8.8	271.2
2/25/2010 08:30 PM	7.7	9.6	274.0
2/25/2010 08:45 PM	7.7	10.2	281.2
2/25/2010 09:00 PM	7.3	8.8	284.8
2/25/2010 09:15 PM	7.7	9.8	295.3
2/25/2010 09:30 PM	8.1	10.6	299.2
2/25/2010 09:45 PM	6.5	9.6	302.1

2/25/2010 10:00 PM	6.7	8.1	307.1
2/25/2010 10:15 PM	6.3	7.1	316.5
2/25/2010 10:30 PM	5.7	6.7	317.2
2/25/2010 10:45 PM	6.3	8.2	318.1
2/25/2010 11:00 PM	5.9	8.8	313.2
2/25/2010 11:15 PM	5.4	6.7	291.2
2/25/2010 11:30 PM	6.2	7.8	257.2
2/25/2010 11:45 PM	6.1	7.3	255.7

I certify that the information presented herein is true and accurate to the best of my information and knowledge, and all opinions are held by me to be true and accurate within a reasonable degree of meteorological certainty. I further certify that the estimations, interpolations or assumptions that were made were done so with expert accuracy by a professional meteorologist. Finally, WDT reserves the right to amend or otherwise modify any portion of this report upon further discovery of meteorological data.