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## **Effects of Heavy-Duty Diesel Vehicle Idling Emissions on Ambient Air Quality at a Truck Travel Center and Air Quality Benefits Associated with Advanced Truck Stop Electrification Technology**

Guenet Tilahun Indale  
*University of Tennessee - Knoxville*

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To the Graduate Council:

I am submitting herewith a dissertation written by Guenet Tilahun Indale entitled "Effects of Heavy-Duty Diesel Vehicle Idling Emissions on Ambient Air Quality at a Truck Travel Center and Air Quality Benefits Associated with Advanced Truck Stop Electrification Technology." I have examined the final electronic copy of this dissertation for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, with a major in Civil Engineering.

Terry L. Miller, Major Professor

We have read this dissertation and recommend its acceptance:

Wayne T. Davis, Joshua S. Fu, Ramon V. Leon

Accepted for the Council:

Carolyn R. Hodges

Vice Provost and Dean of the Graduate School

(Original signatures are on file with official student records.)

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Wayne T. Davis

Joshua S. Fu

Ramon V. Leon

Accepted for the Council:

Anne Mayhew

Vice Chancellor and

Dean of Graduate Studies

(Original signatures are on file with official student records.)

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Ambient Air Quality at a Truck Travel Center and Air Quality  
Benefits Associated with Advanced Truck Stop Electrification  
Technology**

**A Dissertation Presented for the Doctor of Philosophy Degree**

**University of Tennessee, Knoxville**

**Guenet Tilahun Indale**

**May 2005**



## **Dedication**

I dedicated this dissertation to my family for their love, support and continuous encouragements.

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I would like to express my sincere gratitude to my major professor Dr. Terry L. Miller for his patience, steadfast guidance and help throughout the course of my doctoral study. He has been a kind and understanding friend and a very good guide during my study period. Dr. Terry Miller has been a great help during the data collection and data analysis work of this research as well as in writing this dissertation report. I appreciate the valuable critical comments and time spent on my dissertation by each of the committee members, Dr. Wayne T. Davis, Dr. Joshua S. Fu and Dr. Ramon V. Leon.

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## Abstract

United States Department of Transportation (DOT) requires truck drivers to rest for 10 hours after every 14 hours of driving. During this time and while waiting for loading and unloading of their trucks, truck drivers idle their engine to provide heat or air conditioning for the cab and sleeping compartment, keep the engine warm during cold climate, and provide electrical power for their onboard appliances. At large truck stops, 200 or more trucks may be idling at the same time. At these truck stops idling emissions can significantly contribute to the concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> pollutants in the ambient air in the vicinity of the truck stop.

In this study monitoring of ambient air at the Petro truck travel center located at I40/I75 and Watt Road interchange was performed between mid December 2003 and August 2004. Concentrations of PM<sub>2.5</sub> and NO<sub>x</sub> were measured continuously at two locations. Computer modeling was also performed using EPA's ISCST3 model to predict ambient concentrations of PM<sub>2.5</sub> and NO<sub>x</sub> at the truck stop. Ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> were found to be higher at nighttime and early morning hours compared to daytime. The number of trucks idling at the truck travel center was also found to have similar trend as that of ambient concentrations of considered pollutants. Average ambient concentrations of 276 ppb and 213 ppb of NO<sub>x</sub> and 35 µg/m<sup>3</sup> and 29 µg/m<sup>3</sup> of PM<sub>2.5</sub> were monitored at the two selected locations over the course of this research. The monitored concentrations of PM<sub>2.5</sub>, and NO<sub>x</sub> were then compared to the predicted values in an effort to verify and calibrate the model. The ISCST3 model was used to predict annual average and maximum 24-hour average NO<sub>x</sub> and PM<sub>2.5</sub> and concentrations in the Watt Road area and three hot-spots corresponding to the three truck travel centers at the area were observed. If sufficient number of IdleAire electrification units were provided to accommodate all trucks (that would otherwise idle), the ambient concentrations (not considering background concentrations) would be lower by 70% and 48% at the two monitoring locations as predicted by ISCST3 model.

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# 1 INTRODUCTION

## 1.1 Background

The United States Department of Transportation (DOT) requires truck drivers to rest for 10 hours after every 14 hours of driving. During this time and while waiting for loading and unloading of their trucks, many truck drivers idle their engines to provide heat or air conditioning for the cab and sleeping compartment, keep the engine warm during cold weather, and provide electrical power for their onboard appliances.

Truck idling affects the environment and energy consumption. Trucks consume up to one gallon of fuel for every hour of idling. Air pollution emissions from truck engines include carbon dioxide (CO<sub>2</sub>), particulate matter (PM), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), hydrocarbons (HC) and various toxics. These emissions contribute to the concentration of these compounds in the ambient air.

Exposure to high concentrations of diesel truck emissions can contribute to premature mortality, bronchitis, hospital admissions, respiratory symptoms, asthma attacks and other illnesses. Truck idling can also increase engine maintenance cost and noise pollution. In recent years there has been an increased interest in reducing idling emissions and fuel consumption of idling trucks. Regulators are pursuing a variety of strategies to curtail idling. Truck electrification technology as developed by IdleAire, Inc. offers a means to eliminate engine idling by providing an alternative source of electricity, heating and air conditioning to trucks. It was the purpose of this research to evaluate the effectiveness of this technology in reducing emissions and improving air quality at the Petro truck stop where 114 IdleAire units were installed.

The Watt Road interchange crosses over I-40/I-75 interstate and is associated with three large travel centers, namely Petro, TA and Flying J. The three travel centers have approximately 700 overnight parking spaces that are primarily occupied by heavy heavy-duty diesel vehicles (HHDDV, > 33,000 lbs GVW) (Yoon 2002). Truck drivers use these

travel centers to refuel, stop for meals or park their trucks to rest. The Petro travel center, the largest of the three travel centers and equipped with IdleAire electrification unit was chosen for this study.

## **1.2 IdleAire Facilities**

IdleAire is a privately owned corporation formed in June 2000. Corporate headquarters and a research and development center are located in Knoxville, Tennessee. The company provides stand-alone electrification units that meet the need of truck drivers without modifying trucks. IdleAire's travel center electrification technology provides parking spaces with shore power and an external, individual, thermostatically controlled, high capacity heating and air conditioning unit. The units are connected to trucks via a window mounted service module that provides local telephone, television and internet access and 110-volt outlets for appliances. IdleAire units help to eliminate extended diesel engine idling and provides a resting environment that has no fume, vibration or noise to truck drivers with added benefits of connections to television, telephone, internet and appliances. IdleAire units are also intended to reduce noise and exhaust emissions to nearby neighborhoods. Figure 1.1 shows IdleAire electrification units installed at Petro truck travel center.

As shown in Figure 1.1, structures are built above truck parking spaces and electrification systems are suspended on these structures above each parking space. A hose comes down from the system and attaches to the truck window. On the face of the hose opening is a computer touch screen for conducting financial transaction, choosing various services as well as outlets to plug in appliances, air supply, telephone and computer. Figure 1.2 shows the computer touch screen of IdleAire electrification units. In December 2003 when monitoring of the air quality began at the Petro truck stop there were only 60 IdleAire units in the area. The number of IdleAire units was increased to 114 in February 2004.



**Figure 1.1** IdleAire Electrification Units at Petro Truck Travel Center



**Figure 1.2** IdleAire Electrification Unit Computer Touch Screen and Air Supply

### 1.3 Objective

In response to the health concern about diesel particulates, there has been a recent surge of interest in curtailing idling emissions. To determine the effectiveness of idling reduction policies, incentives and bans, it is necessary to estimate the effect of emissions on ambient air quality and the possible improvement in air quality that can be achieved by reducing idling at the truck stop.

The objectives of this research were to:

- Identify and study all modes of traffic activities that are associated with emissions of  $PM_{2.5}$  and  $NO_x$  in and around the truck travel center. This includes determining the number of vehicles in the travel center and identifying their relevant activities (parking, idling, traveling...) in an effort to study how each of these activities affect emissions from trucks.
- Determine the number of vehicles idling versus vehicles parked and number of trucks moving around inside the travel center in order to determine the extent of truck idling which occurs at the truck stop.
- Install two ambient monitors inside Petro truck stop to measure concentrations of  $PM_{2.5}$ ,  $NO_x$  and CO in the ambient air at two different locations of Petro truck stop.
- Perform computer model of the area to predict the concentration of  $PM_{2.5}$  and  $NO_x$  and compare monitored to predicted values.
- Estimate the reduction of  $PM_{2.5}$  and  $NO_x$  emissions and ambient concentrations that can be achieved using IdleAire technology.



## 2 LITERATURE REVIEW

### 2.1 General Description of PM<sub>2.5</sub>, NO<sub>x</sub> and CO Air Pollutants

Nitrogen oxides (NO<sub>x</sub>), particulate matter less than 2.5 microns (PM<sub>2.5</sub>) and carbon monoxide (CO) are three of the six criteria pollutants.

A nitrogen oxide, or NO<sub>x</sub>, is the generic term for a group of highly reactive gases, all of which contain nitrogen and oxygen in varying amounts. Many of the nitrogen oxides are colorless and odorless. However, one common pollutant, nitrogen dioxide (NO<sub>2</sub>) along with particles in the air can often be seen as a reddish-brown layer over many urban areas. Nitrogen oxides form when fuel is burned at high temperatures, as in a combustion process. The primary sources of NO<sub>x</sub> are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuels, contributing 49%, 27%, and 19% respectively. (US EPA, September 1998). NO<sub>x</sub> is one of the main ingredients involved in the formation of ground-level ozone, which can trigger serious respiratory problems. It reacts to form nitrate particles, acid aerosols, as well as NO<sub>2</sub>, which also cause respiratory problems. NO<sub>x</sub> contributes to the formation of acid rain, to nutrient overload that deteriorates water quality and formation of atmospheric particles that cause visibility impairment. It also reacts to form toxic chemicals and contributes to global warming. Nitrogen oxide (NO) and nitrogen dioxide (NO<sub>2</sub>) are collectively known as NO<sub>x</sub>. NO<sub>2</sub> can irritate the lung and lower resistance to respiratory infections; nitrogen oxides are also an important precursor to ozone and to acidic deposition and may affect both terrestrial and aquatic ecosystems.

PM<sub>2.5</sub> refers to particles less than or equal to 2.5 microns in aerodynamic diameter.

Particulate matters come from a variety of sources such as cars, trucks, buses, factories, construction sites, tilled fields, unpaved roads, stone crushing, and burning of wood.

There is evidence to show that exposure to high concentrations of airborne PM<sub>2.5</sub> particles

may pose a significant human health risk.  $PM_{2.5}$  contains a large fraction of particulate matters that is formed in the atmosphere (secondary PM). Fine particles ( $PM_{2.5}$ ) are of health concern because they easily reach the deepest recesses of the lung.  $PM_{2.5}$  is a complex mixture of pollutants, which is defined largely by the sampling method and not by chemical criteria. The fraction of PM material that is formed in the atmosphere (secondary PM) is significant in  $PM_{2.5}$ . Secondary inorganic PM consists primarily of sulfate and nitrate compounds. Sulfate is formed from the oxidation of sulfur dioxide ( $SO_2$ ), whereas nitrate is formed from the oxidation of nitrogen oxides ( $NO_x$ ). These chemical transformations take place over several hours time and do not significantly contribute to ambient concentrations in the micro scale vicinity of truck emissions where dispersion may occur within minutes or less.

Carbon monoxide is a colorless, odorless, poisonous gas formed when carbon in fuels is not burned completely. It is a byproduct of highway vehicle exhaust, which contributes about 60 percent of all CO emissions nationwide (EPA). In cities, automobile exhaust can cause as much as 95 percent of all CO emissions. These emissions can result in high concentrations of CO, particularly in local areas with heavy traffic congestion. Other sources of CO emissions include industrial processes and fuel combustion in sources such as boilers and incinerators. Carbon monoxide enters the bloodstream and reduces oxygen delivery to the body's organs and tissues. The health threat from exposure to CO is most serious for those who suffer from cardiovascular disease. Exposure to elevated CO levels is associated with visual impairment, reduced work capacity, reduced manual dexterity, poor learning ability, and difficulty in performing complex tasks. CO emissions from idling diesel trucks are generally lower than from idling automobiles because diesel engines run with an excess of air needed for complete combustion, resulting in more effective oxidation of carbon to  $CO_2$ .

In July 1997, EPA promulgated NAAQS for atmospheric PM that include annual and 24-hours average standards of  $15 \mu g/m^3$  and  $65 \mu g/m^3$  respectively for  $PM_{2.5}$  (Christian et. al. 1999). The 24-hours standard of  $65 \mu g/m^3$  is measured by the 98th percentile of the

24-hours concentration, each year averaged over three years. NO<sub>2</sub> has an annual average standard value of 100 µg/m<sup>3</sup> or 53 parts per billion (US EPA). EPA's health-based national air quality standard for CO is 35 ppm (parts per million) (40 µg/m<sup>3</sup>) of 1-hour average concentration and 9 ppm (10µg/m<sup>3</sup>) measured as an annual second-maximum 8-hour average concentration. (US. EPA)

## **2.2 HHDDV Trucks**

The trucking industry is an indispensable part of the North American economy and it is growing. In the U.S. alone, trucks transport 87.5% of all goods; 1.3 million of those trucks are “long haul” trucks with sleeper cabs and are powered by diesel engines. According to the EPA’s MOBILE6 model user’s guide, Heavy Duty Diesel Vehicles (HDDV) are those diesel vehicles with a maximum loaded weight of greater than 8,500 lbs GVWR (Gross vehicle weight rating means the value specified by the manufacturer as the maximum design loaded weight of a single vehicle.). HDDV8A are those diesel vehicles with a maximum loaded weight of between 33,000 lbs and 60,000 lbs GVWR. HDDV8B are those diesel vehicles that include large tractor-trailers (i.e. 18 wheelers) that have a GVWR exceeding 60,000 lbs. Most states limit the GVW of trucks to 80,000lbs. Even heavier weights are allowed in some states. Particulate matter (PM), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO) and total hydroxides (HC) are the regulated pollutants in heavy-duty diesel vehicles. Heavy duty diesel trucks produce a relatively high amount of nitrogen oxides (NO<sub>x</sub>) and particulate matter (PM) compared to light duty gasoline vehicles while light duty gasoline vehicles produce more carbon monoxide (CO) than heavy duty diesel vehicles.

On-road motor vehicles are the largest source of NO<sub>x</sub> in the United States. NO<sub>x</sub> interacts with hydrocarbon in the presence of sunlight to form tropospheric ozone, one of the most serious and persistent air quality problems. Some researchers (California Air Resources Board) estimated that heavy-duty vehicles account for 30% of on-road vehicle emission

of NO<sub>x</sub> and 65% of particulate matter (PM) even if these vehicles account for only 2% of the on-road vehicles. EPA estimates that heavy-duty diesel vehicles account for 27% of on-road vehicles NO<sub>x</sub> emission and more than 60% of on-road PM emissions. Another study estimates that heavy-duty vehicles are responsible for half of on-road NO<sub>x</sub> emissions and greater than 75% of motor vehicle exhaust emissions of particulate matter. (Yanowitz et. al. 2000). A state wide NO<sub>x</sub> emission inventory of Tennessee done by the University of Tennessee showed that HDDV accounts for 57 % of on-road NO<sub>x</sub> emissions (University of Tennessee, April 2003). Despite the dominance of motor vehicles among NO<sub>x</sub> sources, considerable uncertainty persists in the understanding of this emission source, and a better quantification and control of on-road NO<sub>x</sub> emissions are needed. (Jimenez et. al. 1999).

In 1999 sales of HDDV8 class vehicle (more than 14969 kg (33,000lb) gross weight) exceeded 250,000 units in the United States (Clark et al. 2002). Emission from heavy-duty diesel vehicles is now getting increasing attention because heavy-duty vehicles are acknowledged as significant contributors to the atmospheric inventory of particulate matter (PM) and NO<sub>x</sub>. Activity of this class of vehicles is expected to increase over the next decade.

### **2.3 Factors Affecting Heavy-Duty Diesel Vehicle Emissions**

The fuel injection process is one of the most important factors in pollution formation in diesel engines. Fuel is injected at high velocity into the cylinder and the liquid is atomized into small drops, which vaporize and mix with air under pressure and burn. Fuel distribution is non-uniform and is responsible for the generation of unwanted emissions. When the air to fuel ratio is low, carbeneous soot is formed at the center of the fuel spray; as the soot cools, organic compounds derived from the fuel and the lubricating oil absorb into the surface or may form an organic aerosol by homogeneous nucleation. NO<sub>x</sub> is formed where air to fuel ratio is nearly stoichiometric and high

temperature is generated. Retardation of injection timing relative to the optimum timing for fuel economy can decrease NO<sub>x</sub> emission. The greater the efficiency of the combustion the greater NO<sub>x</sub> formation if other factors are constant. Engine PM emissions are also affected by the sulfur content, addition of oxygenate, aromatic content and cetane number of the fuel. Oxygenates can lower PM and may increase NO<sub>x</sub> while lowering aromatic content or increasing cetane number can lower emission of both NO<sub>x</sub> and PM. The inverse correlation between PM and NO<sub>x</sub> emissions is a main barrier to the simultaneous lowering of diesel emissions of PM and NO<sub>x</sub>.

Standards for exhaust emissions of PM and NO<sub>x</sub> have been set in units of mass emitted per unit work. Engine manufacturers are required to comply with those standards by testing at least one engine of a given engine model on an engine dynamometer using the Federal Test Procedure (FTP). The FTP requires the engine to be run in transient mode over a range of speeds and loads while emissions are measured using specified procedures. The test consists at least one cold start and one hot start run conducted at ambient temperature and the results are weighted at a ratio of one cold start to six hot start emissions to get a composite emission value. The results are reported in g/bhp-h or g/kW-h (Yanowitz et. al. 2000).

Partial pressure of oxygen is low at high altitudes (elevations over 1,219 meters (4,000 feet)) and this leads to less efficient combustion of fuel and higher emissions of PM. Diesel engines produced since the late 1970s are turbocharged (the inlet air to the engine is compressed at higher engine speed) and this makes the effect of lower oxygen partial pressure more significant at lower speed and idling. Tests showed increased emissions of HC, CO, CO<sub>2</sub> and PM with altitude while no significant change in NO<sub>x</sub> emission with altitude was observed. An increase in humidity has an increasing effect on NO<sub>x</sub> emission due to the decrease in oxygen content of the intake air.

The effect of vehicle class on emissions is also significant. Vehicle speed, weight and inclination of the road determine the amount of power required by the vehicle. As the

required power increases the amount of fuel burned to produce power will also increase causing the rate of emission to increase. The heavier the truck, the higher the emissions. Typical fuel economies for a pickup truck and tractor-trailer truck are 13.1 L/100km (18 miles/gal) and 33.6 L/100km (7 miles /gal) respectively. (Clark et al. 2002). The fuel economy here differs by a factor of 2.5 while the corresponding weight differs by a factor of 5. This shows that fuel consumption is not directly related to weight but it increases as vehicle weight increases. Heavier vehicles require higher energy use than light or unloaded vehicles employing the same engine (if all other factors are the same). Idling fuel consumption is lower than other modes and is estimated to be 838 million to 2 billion gallons annually in United States (Brodrick et al. 2002). This accounts for 11% of all diesel fuel used by Class 8 trucks.

Vehicle age is another factor that affects emissions from vehicles. It is known that as a vehicle accumulates mileage and ages the engine will slowly wear and produce higher emission. Newer vehicles have lower NO emission than older vehicles, but high NO emitters can be found in every vehicle age (Jimenez et. al. 1999). The vehicle age has a significant effect on emissions when pertaining to the particular technology in a particular model year. Acceleration of a vehicle is another factor that affects the amount of emission. Under maximum acceleration a heavy duty vehicle uses the maximum power available from the engine, and thus produces the maximum amount of exhaust gases, typically high rates of PM and NO<sub>x</sub>. A vehicle, which decelerates and accelerates more often, will produce higher distance-specific emissions provided that all other factors are held constant.

## **2.4 Emissions From Idling Trucks**

HDDV8 trucks may be single-unit trucks or combination trucks (single-unit trucks with a trailer or tractor-trucks with single, double, or triple trailers). Seventy percent of these trucks are operated within 200 miles from the home base, and 83% are operated within

500 mi from home base. More than 458,000 combination trucks travel more than 500 miles from home base each day and most of these trucks are equipped with sleeper compartments and are likely to idle overnight during stopovers on long trips. (Stodolsky et. al. 2000). The United States Department of Transportation (DOT) requires truck drivers to rest for at least 10 hours for every 14 hours of driving. During that time, truck drivers live in their cabs, because motels are too expensive and their trucks and loads are too valuable to be left unattended. In addition some trucks have refrigerated trailers that are cooled by an independent, diesel-driven cooling unit. In each instance, truck drivers idle their trucks to power the sleeper compartment heaters and air conditioners and to power accessories (televisions, refrigerators, computers, tools, and fleet operations system), to avoid start up problems in cold weather, to maintain air system pressure, and as a general practice in many delivery operations. Truck drivers also idle their trucks while waiting to load or unload. This extended idling consumes fuel, creates air and noise pollution, shortens engine life and vibrates the cab of the truck causing unpleasant impacts on the driver, the truck owner, the travel center or terminal, and neighborhoods.

Nearly 1,500 public rest areas are scattered throughout the contiguous 48 states and the District of Columbia, offering some 25,000-truck parking spaces for the nearly 480,000 long-distance trucks (including those that do not need to park over-night on the road). Private truck stops provide approximately 184,000 additional parking spaces, and many truck drivers use these, with new construction projected to increase that number to 213,000 by the end of 1999 (TRI 1996 by Stodolsky et. al. 2000).

Little data is available about the amount of truck idling. Idling time differs by trip duration, season, geographic location, and truck operation and this makes it difficult to quantify hours of idling for trucks. A typical intercity tractor-trailer idles an estimated 1,830 hr/yr when parked overnight at truck stops. One study estimated 6 hr/day idling time as a base line case and a range of 3.3 to 16.5 hr/day depending on the season and the operation, idling time being higher in winter (Stodolsky et. al. 2000). Some fleet reported vehicle idling up to 10 hr/day, or greater than 50% of the total engine run time (Brodrick

et. al. 2002). A significant amount of fuel is consumed during idling. EPA's standard "rule of thumb" is that for every hour of idling the engine consumes one gallon of diesel fuel. After comprehensive testing EPA determined that the average fuel consumption at idles is 0.82 gallons per hour. (EPA October 2002). Trucks that travels more than 500miles/day consume about 838 million to 2 billion gallons annually in United States during idling. (Brodrick et al. 2002).

During idling the engine is only 3-11% efficient while it is 30% efficient in highway operation. (Brodrick et al. 2002). Emissions during idling differ greatly as a function of engine model year, engine speed and accessory load condition. Fuel consumption during idling is also affected by the engine model year, accessory loading and engine speed. Older engines are more likely to have higher emissions because of deterioration, poor maintenance and tampering and accessory loading.

A study by McCormick on 24 heavy-duty diesel vehicles, which ranges from 1989 to 1999 model years, averages 85 g/hr NO<sub>x</sub>, 71.0g/hr CO and 1.8 g/hr of PM idling emissions. All tests were conducted while the trucks were idling under standard, factory specified idling speed and use of accessories was not mentioned. The effect of altitude on emissions was not reported.

In another study an EPA emission-measuring trailer was used to measure NO<sub>x</sub>, HC, CO and CO<sub>2</sub> under a variety of accessory loading and speed combinations. The truck tested was a 1999 Freightliner Century Class truck with a 450-hp engine. The following five idling test modes and two tests with a vehicle cruising at 55 mph with and without air conditioning were conducted.

1. At standard idle (600 rpm) after cruising at 55 mph for 10 min
2. At standard idle after running a 10-min transient cycle
3. At standard idle with the air conditioner in use after running a 10 min transient cycle



4. At high idle (1050 rpm) with the air conditioner running after 10-min transient cycle
5. At high idle with the air conditioner running for 5-hr.

Table 2.1 shows the result of NO<sub>x</sub> emission tests from a study by Brodrick and colleagues. As is shown in the table increases in engine speed and accessory loading have a significant effect on emissions. Comparison of mode 2 and mode 4 indicates that increasing of engine speed from 600 to 1050 rpm and turning on the air conditioning results in an increase of NO<sub>x</sub> emissions by about 2.5 times and CO by about 5.5 times. The research result also showed that NO<sub>x</sub> emissions increase by 58% with the addition of air conditioning for the same engine speed. The results in general show that NO<sub>x</sub>, HC, CO and CO<sub>2</sub> emissions increase with an increase in engine speed and accessory load.

Emissions while idling are not steady and simple averaging could be misleading. The length of time over which idling is measured may affect NO<sub>x</sub> emission rates. Vehicle operation prior to idling can also affect NO<sub>x</sub> emission rates. It was found out in this test that idling emissions crept up and continued to creep up throughout the idling test indicating that the length of idling time over which emissions are measured could affect NO<sub>x</sub> emission rates. A test on 5-hr. overnight idling with air conditioning running and the engine speed at 1050 rpm has a distinctive pattern. The overall emission in the later case is higher than the emission at 600 rpm with no accessories. This pattern is most likely caused by the air compressor periodically loading the engine. Emissions in lower speed transient modes, which are typical of city driving at 600 rpm without accessories, immediately following the transient mode were 75 g/hr but this emission level suddenly jumped to 120 to 140 g/hr. The reason for the jump is not clear. (Brodrick et al 2002).

**Table 2.1** NO<sub>x</sub> and CO emission factors and fuel economy obtained from emission tests by Brodrick and colleagues. (Brodrick et. al. September 2002)

Mode	NO <sub>x</sub>		CO		Fuel
	Emissions		Emissions		Economy
	g/hr	g/gal	g/hr	g/gal	gal/hr
Mode 1. Idling after Cruising	103	292	14.6	41	0.36
Mode 2. Idling after Transient Cycle	105	267	15.9	40	0.39
Mode 3. Idling at 600 rpm with A/C	166	335	15.3	31	0.49
Mode 4. Idling at 1050 rpm with A/C	254	287	86	98	0.88
Mode 5. Long Idling at 1050 rpm with A/C	225	242	189.7	204	0.93
Mode 6. Cruising at 55 mph, no A/C	713	120	65.1	11	5.9
Mode 7. Cruise at 55 mph, with A/C	777	116	57.4	9	6.6

A number of cities have ordinances that prohibit idling for extended periods, and there have been a number of campaigns to voluntarily limit idling (McCormick 2000). As is shown in Table 2.1, idling emissions from the 1999 truck tested ranged between 14.6 and 189.7 g/hr of CO and 103 to 254 g/hr of NO<sub>x</sub> depending on accessory loading and engine speed. The average emission factors of CO and NO<sub>x</sub> in the study were 64 g/hr and 171 g/hr respectively.

Another study on particulate matter emissions from idling trucks conducted in May 2002 by Storey and colleagues showed that there is a wide range of PM emission rates, from less than 1g/hr to over 20g/hr, with the newest trucks in the 1-5g/hr range. For this study five trucks and two auxiliary devices were tested. Table 2.2 shows the truck ID, engine year, make and model of the five trucks used for this emission test. Each truck was tested at three environmental chamber temperature settings: -18 °C, 18 °C and 32 °C. The environmental chamber was unable to maintain -18 °C but never went above -10 °C.

**Table 2.2** Truck ID, Engine Year, Make and Model used for the emission test (Storey et. al. 2003)

<b>ID</b>	<b>Truck Year and Model</b>	<b>Engine or Device Model</b>
A	1999 Volvo	DDC Series 60
B	1992 Ford	Caterpillar 3406
C	1998 Freightliner	Cummins N14
D	2001 Freightliner	DDC Series 60
E	1997 International	Caterpillar 3406

At 18 °C setting no accessory loads were used except those needed for engine system operation. At -18 °C chamber setting the cabin heater was set to maintain 21 °C cabin temperature and at 32 °C the truck air conditioning system was operational to keep cabin temperature at 21 °C. The test matrix in this experiment also included a low-speed of 600 rpm and a high-speed of 1200-rpm idle condition for each truck (Storey et.al. May 2002). For this test standard bench of gas analyzers were used for quantifying concentrations of CO, HC, NO<sub>x</sub>, CO<sub>2</sub> and O<sub>2</sub> in the raw (undiluted) exhaust and a micro-dilution tunnel was used to dilute the exhaust for PM measurement. PM was measured using two ways; a TEOM provided time resolved measurement and a 47 mm filter holder was used to measure an integrated sample over the last 90 minutes of the test. Fuel consumption was calculated using the carbon emission rates and the estimated exhaust flow rate. Table 2.3 shows NO<sub>x</sub>, CO and PM emission rates and fuel consumptions obtained as a result of this study (Storey et.al. May 2002).

It was found out from the test that increasing engine speed always increases fuel consumption and emissions. Truckers often set their engine at a higher speed while idling and this increases fuel consumption and emissions. Table 2.3 also shows that engines produce higher PM emissions under cold temperatures than under warm temperatures. The test also shows that the average emission rate of NO<sub>x</sub> increases with temperature and average CO emission rate decreases with temperature. This is due to the high level of unburned fuel that is typical at cold idle conditions.

**Table 2.3** Results of emission factors test by Storey and Colleagues. (Storey et. al. 2003)

Mode	Chamber Temp.	NOx Emissions	CO Emissions	PM Emissions	Fuel Consumption
	°C	g/hr	g/hr	g/hr	gal/hr
2001 Freightliner at 600 rpm	-18	134	85.9	2.25	0.642
2001 Freightliner at 1200 rpm	-18	221	214	8.21	1.16
1999 Volvo truck at 600 rpm	-18	60.2	194	4.59	0.668
1999 Volvo truck at 1200 rpm	-18	195	295	4.79	1.21
1998 Freightliner at 625 rpm	-18	88.6	62.4	3.21	0.731
1998 Freightliner at 1200 rpm	-18	286	102	5.6	1.365
1997 International at 700 rpm	-18	137	95.5	1.43	0.739
1997 International at 1100 rpm	-18	208	133	3.35	1.154
1992 Ford at 600 rpm	-18	82.8	52.8	1.91	0.592
1992 Ford at 1200 rpm	-18	66.6	102	6.89	1.135
2001 Freightliner at 600 rpm	32	102	27.8	0.854	0.573
2001 Freightliner at 1200 rpm	32	189	97	3.31	1.406
1999 Volvo truck at 600 rpm	32	114	24.7	0.827	0.599
1999 Volvo truck at 1200 rpm	32	353	104.6	5.06	1.492
1998 Freightliner at 625 rpm	32	157	22.6	1.62	0.748
1998 Freightliner at 1200 rpm	32	239	62.6	2.95	1.808
1997 International at 700 rpm	32	176	22.2	1.16	0.811
1997 International at 1100 rpm	32	265	53.3	1.44	1.454
1992 Ford at 600 rpm	32	51.5	68.9	2.26	0.871
1992 Ford at 1200 rpm	32	85.2	119	20.6	1.491
2001 Freightliner at 600 rpm	18	78.6	29.8	0.849	0.486
2001 Freightliner at 1200 rpm	18	149	82.9	2.48	1.133
1999 Volvo truck at 600 rpm	18	89.2	25.3	1.12	0.452
1999 Volvo truck at 1200 rpm	18	219	66.5	3.9	0.877
1998 Freightliner at 625 rpm	18	148	17.1	1.26	0.564
1998 Freightliner at 800 rpm	18	158	32.3	2.31	1.205
1998 Freightliner at 1000 rpm	18	155	44.4	3.73	0.981
1998 Freightliner at 1200 rpm	18	197	62.0	2.54	1.359
1997 International at 700 rpm	18	155	22.3	0.827	0.632
1997 International at 1100 rpm	18	233	52.3	2.20	1.146
1992 Ford at 600 rpm	18	71.3	20.6	1.61	0.563
1992 Ford at 1200 rpm	18	64.8	87.2	20.39	1.175

Under warm temperatures NO<sub>x</sub> emissions increase as PM emissions decrease (a typical NO<sub>x</sub>/PM tradeoff). (Storey et. al. 2003) The above table also shows that NO<sub>x</sub> emissions range between 51.5 and 353 g/hr, CO emissions between 17.1 and 295 g/hr, PM emissions between 0.827 and 20.39 g/hr and fuel consumption between 0.5-1.8 gallons/hr. The average emission values of NO<sub>x</sub>, CO and PM are 164 g/hr, 83 g/hr and 4.18 g/hr respectively.

EPA's Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity released in January 2004 states that long duration idling emission accounts for only 3.4 percent of the total emissions for HDDV8 trucks for criteria pollutants or precursors in MOBILE6.

The guidance also gives average emission factors for NO<sub>x</sub> and PM. NO<sub>x</sub> emission factors for trucks engaged in long duration idling vary due to factors such as engine manufacturer, age of vehicle, engine speed and ambient temperature which influences the use of auxiliary units. The guidance states that emission control measures such as catalytic converters, which are intended to reduce emissions from diesel trucks, may likely be less effective in reducing emissions from long duration idling. The average idling emission factor of NO<sub>x</sub> for years 2002-2030 is 135 g/hr. An average idling emission factor of 3.68g/hr for years 2006 and earlier is given for PM<sub>2.5</sub> and the same emission factor is given for PM<sub>10</sub> since almost all diesel PM is sub-micron in size.

The literature review concerning idling emission factor values of NO<sub>x</sub>, PM and CO showed that various studies have different values of idling emission factors of the above pollutants. Averaging all average emission factors from different studies (McCormick and colleagues, Storey and colleagues, Brodrick and colleagues and EPA's guidance for quantifying long term idling emissions) gives average NO<sub>x</sub>, CO and PM emission factors of 139 g/hr, 73 g/hr and 3.22 g/hr respectively. Emission factor values of 139 g/hr for NO<sub>x</sub> and 3.22 g/hr for PM are close to the value given by EPA's guidance for quantifying long term idling. For computer modeling values given by EPA's guidance

for quantifying long term idling (135 g/hr for NO<sub>x</sub> and 3.68 g/hr for PM) were used as idling emission factors of NO<sub>x</sub> and PM. CO idling emission factor value 73 g/hr (average value from different studies) was used as an idling emission factor value of CO.

## 2.5 ISCST3 Model

The Industrial Source Complex (ISC) Short Term model is an EPA approved dispersion model that provides options to model emissions from a wide range of sources that might be present at a typical industrial source complex. The basis of the model is the straight-line, steady-state Gaussian plume equation, which is used with some modifications to model simple point source emissions from stacks, emissions from stacks that experience the effects of aerodynamic downwash due to nearby buildings, isolated vents, multiple vents, storage piles, conveyor belts, and the like.

For a steady-state Gaussian plume, the hourly concentration *C* at downwind distance *x* (meters) and crosswind distance *y* (meters) is given by:

$$C = \frac{QKVD}{2\Pi U_s \sigma_y \sigma_z} \exp\left[-0.5\left[\frac{y}{\sigma_y}\right]^2\right]$$

Where:

*Q* = pollutant emission rate (mass per unit time)

*K* = a scaling coefficient to convert calculated concentrations to desired units (default value of 1 x 10<sup>6</sup> for *Q* in g/s and concentration in µg/m<sup>3</sup>)

*V* = vertical term

*D* = decay term

$\sigma_y, \sigma_z$  = standard deviation of lateral and vertical concentration distribution (m)

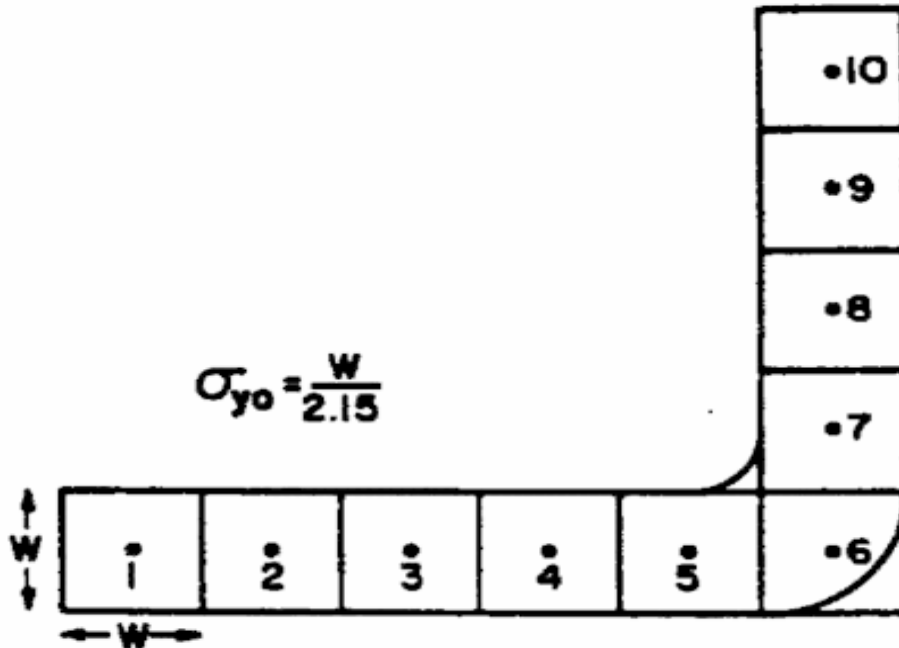
*U<sub>s</sub>* = mean wind speed (m/s) at release height

Dispersion models typically incorporate a plume rise module which calculates the height to which pollutants rise due to momentum and buoyancy, and a dispersion module which estimates how they spread as a function of wind speed and atmospheric stability.

Pollutants are generally assumed to be carried on average in a straight line with the prevailing winds. They are also assumed to disperse at a rate which is greatest for sunny daytime conditions and least for stable nighttime conditions. The dispersion rate may be enhanced by factors such as wind shear, surface roughness and plume buoyancy. Models may or may not incorporate factors such as building wakes and terrain effects. Emission sources are categorized into four basic types of sources, i.e., point sources, volume sources, area sources, and open pit sources (EPA, 1995).

The ISC model uses dispersion coefficients and predicts concentrations around point, area, volume or open pit sources using emission rates and meteorological conditions as model input. The ISC volume source model is used to simulate the effects of line sources. The north-south and east-west dimensions of each volume source used in the model must be the same. Figure 2.1 illustrates representations of a curved line source by multiple volume sources. Emissions from a line source or narrow volume source represented by multiple volume sources are divided equally among the individual sources unless there is a known spatial variation in emissions (EPA, 1995). In the case of a long and narrow line source, it may not be practical to divide the source into  $N$  volume sources, where  $N$  is given by the length of the line source divided by its width. An approximate representation of the line source can be obtained by placing a smaller number of volume sources at equal intervals along the line source, as shown in Figure 2.1.

There are two basic types of inputs that are needed to run the ISC models. They are the input run stream file, and the meteorological data file. The run stream setup file contains the selected modeling options, as well as source location and parameter data, receptor locations, meteorological data file specifications, and output options. The ISC models offer various options for file formats of the meteorological data.



**Figure 2.1** Representation of a line source by multiple volume sources (EPA1995).

Source emission rates can be treated as constant throughout the modeling period, or may be varied by month, season, hour-of-day, or other optional periods of variation. These variable emission rate factors may be specified for a single source or for a group of sources.

## 2.6 Air Quality Model Performance Evaluation

Air quality models are used to predict the fate of pollutants upon their release into the atmosphere. They account for the dilution effects of wind speed and turbulent diffusion. Since model results often influence decisions that have public-health and economic consequences model should be evaluated with observational data before their prediction can be used. There can be three components of the evaluation of air quality models: scientific, statistical, and operational. In a scientific evaluation, the model algorithms, physics, assumptions, and codes are examined in detail for their accuracy, efficiency, and

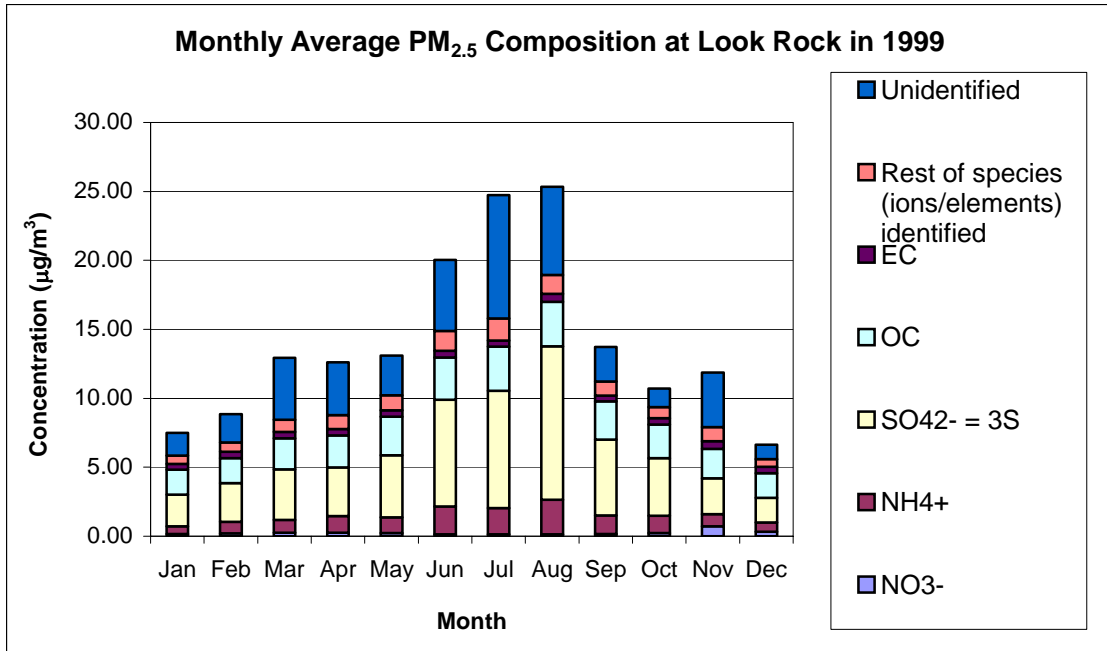


sensitivity. This required in-depth knowledge of the model. For statistical evaluation model predictions are examined to see how well they match observations. The operational evaluation component mainly considers issues related to the user-friendliness of the model (Chang et.al. 2003).

For statistical evaluation model predictions are directly compared to observations which could lead to misleading results. Air quality models usually predict ensemble means but observations represent single realizations from an infinite ensemble of causes under the same conditions and there are uncertainties in model prediction and observations. Visual inspection of a scatter plot which shows a plot of paired observations and predictions can reveal the magnitude of model's over or under-predictions. In order to evaluate the performance of a model statistical performance measures including the Fractional Bias (FB), normalized mean square error (NMSE), fraction of prediction within a factor of two (Fa2), geometric mean bias (MG) and geometric mean variance(VG) can be used. In general, a perfect model would have values of Fa2, MG, VG and R equal to 1.0; and NMSE and FB equal to 0.0.

## **2.7 Regional Background PM<sub>2.5</sub> Concentration**

PM<sub>2.5</sub> concentrations measured at Look Rock, Tennessee were used as a regional background PM<sub>2.5</sub>. To illustrate how PM<sub>2.5</sub> varies by month of the year and by chemical content monthly average PM<sub>2.5</sub> concentrations data from Look Rock are shown in Figure 2.2. As can be seen in the figure the average monthly PM<sub>2.5</sub> concentration in 1999 increased in June, July and August. Monthly average PM<sub>2.5</sub> concentrations varied between 6.5 µg/m<sup>3</sup> in December to 25 µg/m<sup>3</sup> in July and August. Organic carbon and elemental carbon portions of PM<sub>2.5</sub> accounted for 15% to 34% of total PM<sub>2.5</sub> at Look Rock. For the data in the study, the PM<sub>2.5</sub> data from Look Rock for 2004 were used as regional background.



**Figure 2.2** Monthly Average PM<sub>2.5</sub> Concentration at Look Rock 1999 (Doraiswamy 2004)

## 2.8 Truck Electrification Technologies at Truck Stops

EPA's Guidance (EPA420-B-04-001) defines long duration idling as the operation of the truck's propulsion engine when not engaged in gear for a period greater than 15 consecutive minutes, except when associated with routine stoppages due to traffic movement or congestion. Idle reduction technologies are used to reduce emissions of criteria pollutants, toxic air pollutants, and CO<sub>2</sub>, reduce fuel consumption, decrease maintenance costs, reduce noise pollution, give longer engine life which results in cost saving to truck owners and decreases dependency on oil imports.

Truck Electrification is idle reduction technology which involves modification of the truck travel center parking space to provide cab heating, cooling, plugs for on-board appliances and other needs. Use of truck travel center electrification can reduce emissions and save 100 percent of the diesel fuel that could be spend in idling. Truck

stop electrification technology can be a stand-alone system or it can include on-board and off-board systems.

Stand-alone truck stop electrification refers to an independent system that supplies truck driver's needs without modification of their trucks. For this system a structure is typically built above truck parking spaces and HVAC (heating, ventilation, air conditioning) systems are suspended on this structure above each parking space. A hose comes down from the HVAC system and attaches to the truck window or portal near the sleeper compartment. On the face of the hose's opening is a computer touch screen for conducting financial transactions as well as outlets to plug in appliances, telephones and computers. The system is owned by private company (IdleAire) and the company charges an hourly fee.

Another technology, "on-board truck stop electrification" (also known as "shore-power") provides only electricity and requires that the truck comes equipped with three essential components:

- 1) An inverter to convert 120 volts to operate on-board appliances and a charger to re-charge the truck's battery if an electric outlet is not available.
- 2) An electrical HVAC system to provide heat and air which is powered by electricity and
- 3) Hardware to plug into the electrical outlet.

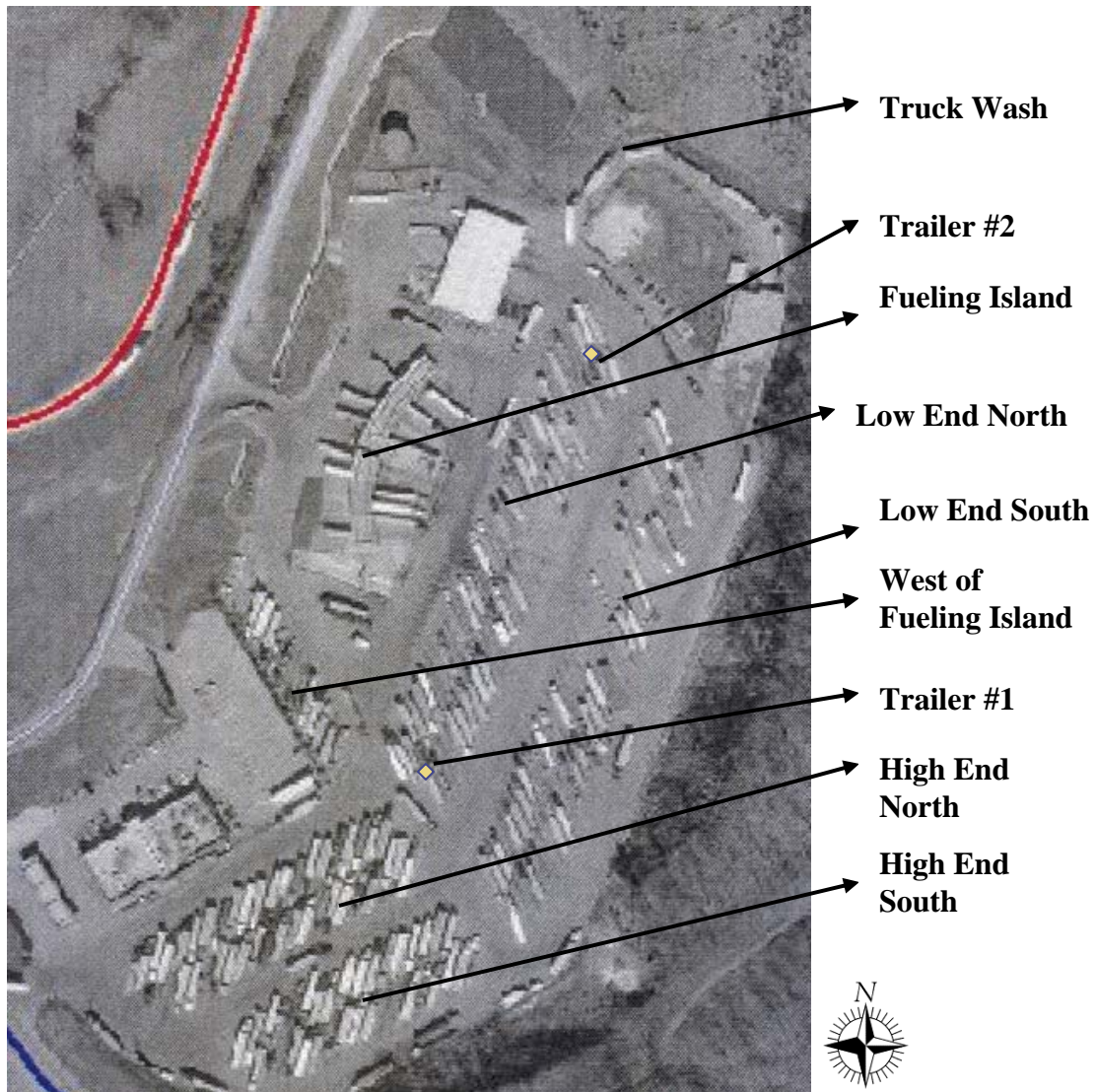
On-board truck stop electrification requires an electric outlet for the truck to plug into. The truck stop operator regulates its use and charge. If no electrical outlet is available, the truck can use battery power to operate the electrical HVAC.

### **3 METHODOLOGY**

The overall methodology of the research involved gathering of data needed for computer modeling of ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub>, monitoring ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> and comparing modeling results to measured concentrations at the truck travel center. Comparison of predicted and modeled ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> was used to modify the model so that it can be used to predict air quality near other truck travel centers. With this model the effect of installing truck electrification can be evaluated. For the computer model number of idling trucks and other highway sources at different hours of the day was determined and ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> were measured to compare predicted and measured concentration values. The following detailed approach was taken to fulfill the tasks of the research:

#### **3.1 Truck Counting**

Regular visits to the Petro truck travel center were made to identify and characterize different activities that contribute to the emission of NO<sub>x</sub> and PM<sub>2.5</sub>. Parking with engine off, idling, filling fuel tanks, using the truck wash facility and moving around inside the travel center were identified as major activities of trucks at the Petro truck travel center. Effort was made to visit the site at different hours of a day and different days of the week so that representative observations could be made. For identification purpose different sections of the Petro truck travel center were given different names as shown in Figure 3.1. Visual observations and direct count of trucks idling, parking, filling up with fuel, using the truck wash and traveling in the travel center at a specific time was done to characterize the different activities and patterns of those activities of truck drivers in the travel center. This was done to estimate hourly emissions in each of the different sections of the Petro truck travel center for computer modeling.



Trailer #1 and Trailer #2 Sampling Sites     ◆

**Figure 3.1** Aerial Photo of Petro Truck Stop with the Assigned Names of Different Sections of The Truck Stop and Locations of Sampling Trailers.

During the site visits the number of trucks engaged in different activities in the different sections were counted using a truck count sheet. Counts made included the total number of trucks and number of trucks idling in different sections. During day time trucks with their engine running were identified as idling by listening to their engine. At night time idling trucks were identified by listening to the engine of the truck and trucks parked with their parking light on were also identified as idling. Counts were also made of the number of trucks using IdleAire electrification facilities. IdleAire units were installed in all 60 parking spaces in the “Low End North” area, in 30 of the spaces in “Low End South” area and in 24 of the spaces in the “High End South” area as shown in Figure 3.1. A total of 114 spaces were equipped with IdleAire units, but only 110 units were available for use by trucks. Two units were used to provide electrical power for the air monitoring trailers, one was dedicated for use as a “demonstration unit” and one parking site was occupied by a storage container which prevented its use by a truck. Trucks parking in IdleAire equipped spaces were not required to use the equipment. As a result, many trucks were parked in these spaces with engines idling. The truck counting sheet used for this study is shown in Figure 3.2.

### **3.2 Monitoring of NO<sub>x</sub>, PM<sub>2.5</sub> and CO Concentrations**

Ambient monitors were installed at two locations inside the Petro travel center to continuously measure ambient concentration of NO<sub>x</sub>, PM<sub>2.5</sub>, and CO. The ambient air quality of the truck stop was monitored between December 2003 and August 2004. Continuous measurements of PM<sub>2.5</sub>, NO<sub>x</sub> were made at the two monitoring trailers while CO was measured only at one of the trailers (trailer #2). Two E-BAM beta gage instruments for PM<sub>2.5</sub>, two Chemiluminescence NO<sub>x</sub> analyzers and one Non-Dispersive Infrared (NDIR) CO analyzer were used to monitor PM<sub>2.5</sub>, NO<sub>x</sub> and CO respectively. Air samples were drawn from sampling probes on the trailer roofs at a height of 4 meters above the ground.

## Truck Counts at Petro (Watt Road) Truck Stop

*Day & Date* \_\_\_\_\_ *Time* \_\_\_\_\_ *Observer* \_\_\_\_\_

Hooked Up to Idle-Aired System _____ (Low End North)	Idling _____
Not Hooked Up w/I 60 unit area _____ (Low End North)	Idling _____
Trucks East of A/M #2 _____	Idling _____
Near Restaurant Spaces _____ (High End North)	Idling _____
High End South _____	Idling _____
Low End South _____	Idling _____
Perimeter (Oversize Area) _____	Idling _____
Fueling Islands _____	Idling _____
West of Fueling Islands _____	Idling _____
Truck Wash _____	Idling _____
Total of Trucks On-Site $\Sigma$ _____	Idling _____
Trucks Parked @ I-40 On-Ramps _____	Idling _____

Miscellaneous Notes:

**Figure 3.2** Truck Count Sheet



Figure 3.3 shows a truck and one of the monitoring trailers connected to IdleAire electrification units at Petro travel center. As is shown in the figure the trucks that are using IdleAire electrification units are connected to the IdleAire units through their window. The monitoring trailers also received power for running air quality monitoring equipment, air conditioning and heaters from an IdleAire unit connected to them. Sampling inlets to the E-BAM and NO<sub>x</sub> and CO analyzers at one of the monitoring trailers are shown in Figure 3.4 . The inlet to each E-BAM PM analyzer was situated on the roof of the trailer. The sampled air to the NO<sub>x</sub> and CO analyzers was pulled into the trailers through the inlet tube using a small fan. The settings of the E-BAM analyzer, NO<sub>x</sub> analyzer, and flow calibrator inside the trailer are shown in Figure 3.5 and Figure 3.6 respectively.



**Figure 3.3** A Truck and One of the Monitoring Trailers Connected to IdleAire Electrification Units





**Figure 3.4** Inlets for Sampled Air to the PM<sub>2.5</sub>, NO<sub>x</sub> and CO Analyzers



**Figure 3.5** E-BAM PM<sub>2.5</sub> Analyzer Inside Monitoring Trailer



**Figure 3.6** NO<sub>x</sub> Analyzer and Mass Flow Calibrator Inside Monitoring Trailer

Teledyne-Advanced Pollution Instrumentation M200E NO<sub>x</sub> analyzers were used to monitor ambient NO<sub>x</sub> concentrations. The M200E NO<sub>x</sub> analyzer is a microprocessor-controlled instrument that determines the concentration of nitric oxide (NO), total nitrogen oxides (the sum of NO and NO<sub>2</sub>) and nitrogen dioxide (NO<sub>2</sub>) in a sample gas drawn through the instrument. The analyzer requires that sample and calibration gases are supplied at ambient atmospheric pressure in order to establish a constant gas flow through the reaction cell where the sample gas is exposed to ozone, initiating a chemical reaction that gives off light (chemiluminescence). The instrument measures the amount of chemiluminescence to determine the amount of NO in the sample gas. A catalytic reactive converter converts any NO<sub>2</sub> in the sample gas to NO, which is then reported as NO<sub>x</sub>. NO<sub>2</sub> is calculated as a difference between NO<sub>x</sub> and NO. The principal of the M200E measurement method is the detection of chemiluminescence, which occurs when nitrogen oxide (NO) reacts with ozone (O<sub>3</sub>).

Two Met One Instrument E-BAM were used to measure PM<sub>2.5</sub>. The E-BAM is a portable and continuously reporting beta attenuation monitor (BAM). It is an automated filter-based PM<sub>2.5</sub> monitor and has the same operation principal as manual filter-based samplers. The measurement of the mass concentration of dust particles is made using a principle of beta attenuation. The Beta Attenuation Monitor consists of a size-selective inlet, a filter tape, a beta radiation source, and a beta radiation detector. Particles smaller than the cut-diameter of the size selective inlet (2.5 micrometer in this case) are collected at a single point on a length of filter paper. A small C<sup>14</sup> source emits a constant 60 microcuries of low to medium energy electrons known as beta particles, which are detected by an ultra sensitive scintillation detector and counter positioned near the source. Filter tape on which particles are collected and placed between the source and detector thereby causing attenuation of the measured signal. The degree of attenuation of the beta signal is used to determine the mass concentration of particulate matter on the filter tape. The difference in the transmission of beta radiation through the filter tape before and after a particulate sample has been collected is measured and is used to determine the mass of collected particulate matter. A vacuum pump pulls 16.7 l/min of air through the filter

tape. The measured mass is divided by the sampled volume of air to calculate the concentration of PM<sub>2.5</sub> particulates in the sampled air. The E-BAM is configured to monitor PM<sub>2.5</sub> by adding a BX-807 Sharp Cut Cyclone (SCC) that removes particles that are larger than 2.5 microns. Continuous monitoring is achieved by an automatic mechanism that advances the filter tape between sampling events.

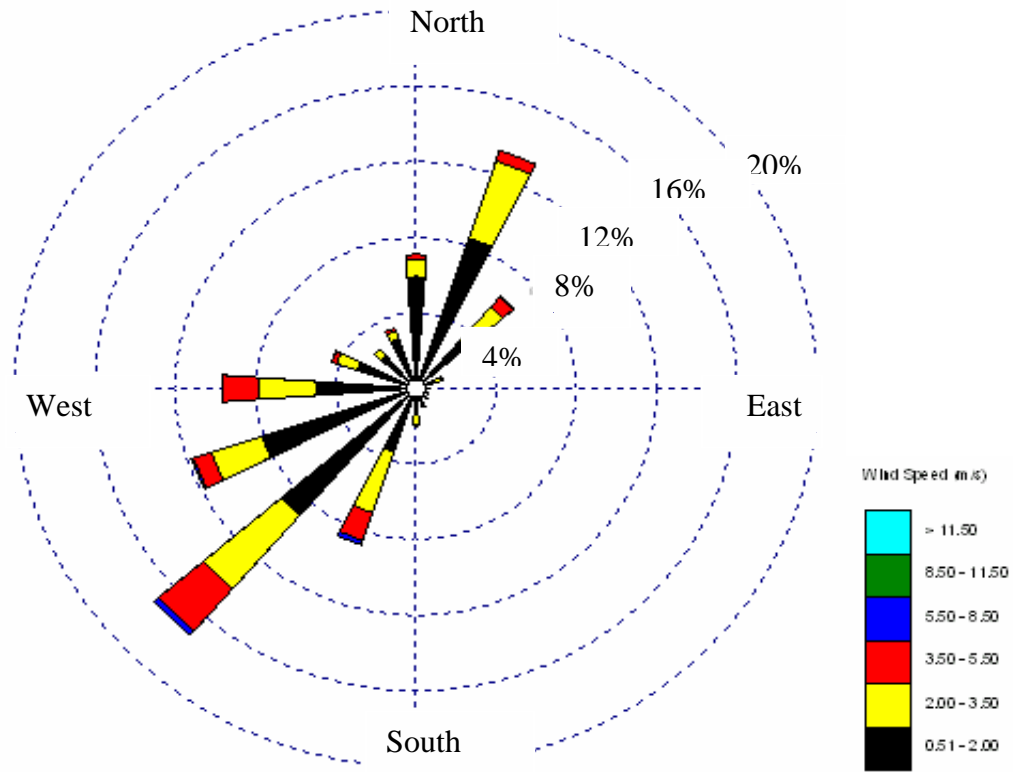
A gas filter correlation CO analyzer was used to monitor ambient CO concentrations in the study area at trailer #2. The carbon monoxide analyzer is a Non-Dispersive Infrared (NDIR) analyzer. It is a photometric device that operates on the principle that CO absorbs light at specific wavelengths and will decrease the intensity of the light beam in proportion to its concentration. Carbon Monoxide absorbs infrared radiation (IR) at wavelengths near 4.7 microns and the presence and amount of CO can be determined by the amount of absorption of IR. The carbon monoxide analyzer uses gas filter correlation technology to measure low concentrations of CO. This instrument utilizes a broadband infrared radiation source located behind a rotating gas filter correlation wheel. The correlation wheel has two gas filled "cells." One contains CO which removes all of the IR energy in the CO absorption wavelengths thereby creating a reference beam. The other cell contains nitrogen which allows the CO absorption spectral bands to be measured with the sample gas. Both IR beams pass sequentially through the multiple path measurement cells where the energy is absorbed by the sample gas. The difference in IR energy sensed by the solid-state detector during measurement and reference cycles is proportional to the CO present in the measurement cell.

The concentration of NO<sub>x</sub>, PM<sub>2.5</sub> and CO in the ambient air was measured to determine the quality of ambient air at the truck stop and to determine the precision of the computer model in predicting air pollution level of the area. Two monitoring stations at the two ends of the Low End North section of Petro truck travel center were used to continuously measure ambient NO<sub>x</sub> and PM<sub>2.5</sub> 1-hour average concentrations. One hour average CO concentrations were measured at one of the two monitoring trailers (trailer #2).

Two sites were selected and trailers were installed inside the Petro travel center site on December 12, 2003 at the selected locations (sampling sites are shown in Figure 2.1). It was decided that the trailers would get power from IdleAire units and by December 12, 2003 IdleAire units were functional only on the Low End North section of the travel center. For this reason the trailers were installed at the two ends of the Low End North section of the travel center. E-BAM PM<sub>2.5</sub> monitors were installed for continuous monitoring of PM<sub>2.5</sub> concentration on December 12, 2003. The E-BAM in trailer #2 started collecting 1-hour average PM<sub>2.5</sub> concentrations on December 12, 2003 while the one in trailer #1 started collecting 1-hour average PM<sub>2.5</sub> concentrations on December 19, 2003. NO<sub>x</sub> analyzers were also installed on December 18, 2003 in the two trailers to collect continuous 1-hour average concentrations of NO, NO<sub>2</sub> and total NO<sub>x</sub> in the ambient air of the Petro travel center. NDIR CO analyzer was installed and started collecting continuous 1-hour average ambient CO concentrations on February 27, 2004. Wind speed and direction were measured at a 10-meter tower located at the I40/I75 and Watt Road interchange. A wind rose prepared from the meteorological data collected between September 1, 2003 and August 31, 2004 and illustrates the distribution of wind direction at the study area. As can be seen from the wind rose in Figure 3.7, the wind blew from NNE and SW directions most of the time. Those two directions are close to the alignment of the two trailers. Meteorological data collected for the duration of this study at the Watt Road met station is shown in Appendix A-2.

### **3.3 Quality Assurance**

The NO<sub>x</sub> analyzers were calibrated using 0 ppb NO/NO<sub>x</sub>, 547 ppb of NO and 504 ppb of NO<sub>2</sub> gases before they were taken to the site. To perform calibration a 202 ppm of NO gas was diluted to lower concentrations using Teledyne Instruments M700 mass flow calibrator. Higher concentration of NO gas (202 ppm) was mixed with a zero air using a mass flow calibrator to generate calibration gases with lower concentrations that are close to the ambient concentrations.



**Figure 3.7** Wind Rose at Watt Road Meteorological Tower September 2003 to August 2004

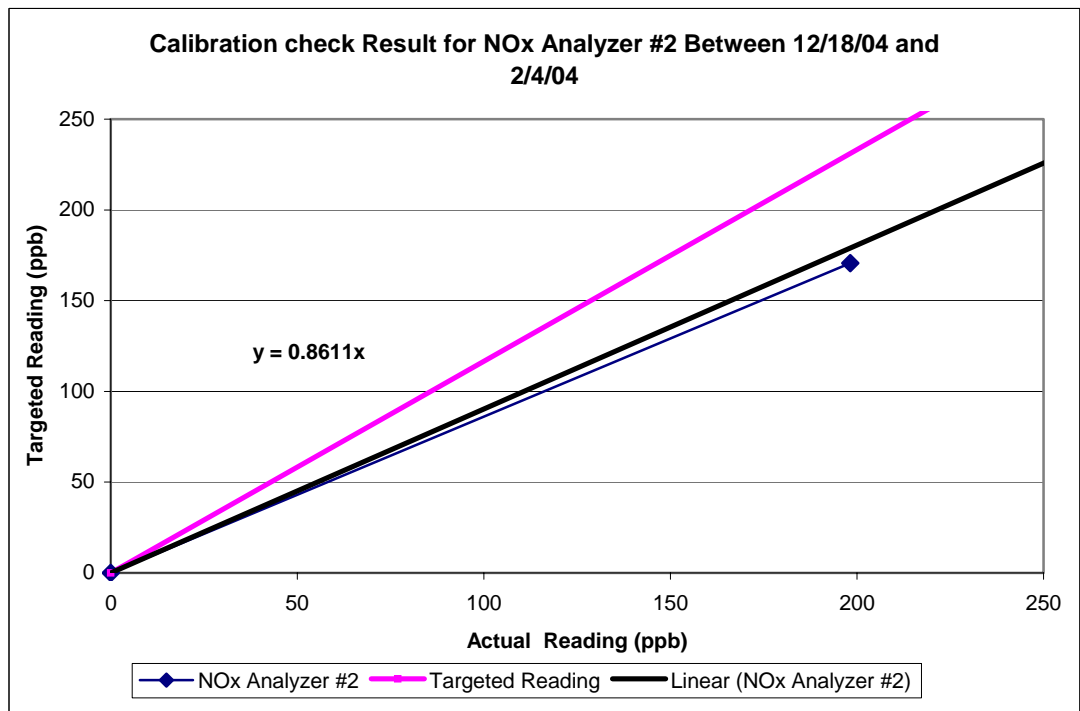
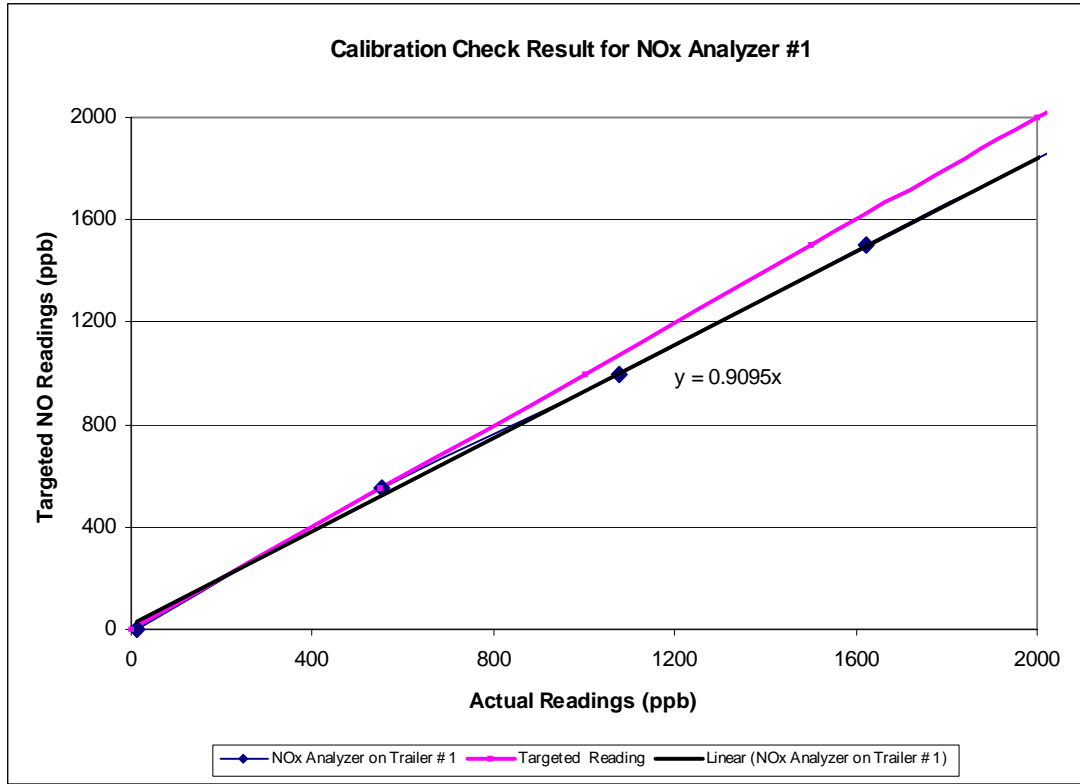


NO<sub>2</sub> permeation tube (2000 ng/min at 50 °C) was diluted to 208 ppb of NO<sub>2</sub> using a dilution calibrator and zero air from a zero air generator. This permeation tube was used for calibration checks for a portion of the study duration. Calibration curves for both NO<sub>x</sub> air quality monitoring instruments were made using zero air, 500 ppb NO, 1000 ppb NO, 1500 ppb NO and 2000 ppb NO gases ,zero air and 550 ppb of NO gas and zero air and 208 ppb of NO<sub>2</sub> gas from permeation tube. One calibration curve was used for the entire project time for NO<sub>x</sub> analyzer #1 while five different calibration curves were used for NO<sub>x</sub> analyzer #2 since the response of this instrument drifted somewhat during the course of the project. The calibration curves are shown below in Figure 3.8. The calibration curves were used to adjust raw measured concentrations to final corrected values.

Frequent visits to the site were made (typically 2-3 times / week) and calibration checks were made during each visit using zero air and 208 ppb NO<sub>2</sub>. This task was performed using an NO<sub>2</sub> permeation tube (2000 ng/min at 50 °C) that was diluted to 208 ppb of NO<sub>2</sub> using a dilution calibrator and zero air from a zero air generator. Starting on June 18, 2004 calibration checks on NO<sub>x</sub> ambient air quality monitoring instruments were done by diluting 202 ppm NO bottle gas to 550 ppb of NO using a dilution calibrator.

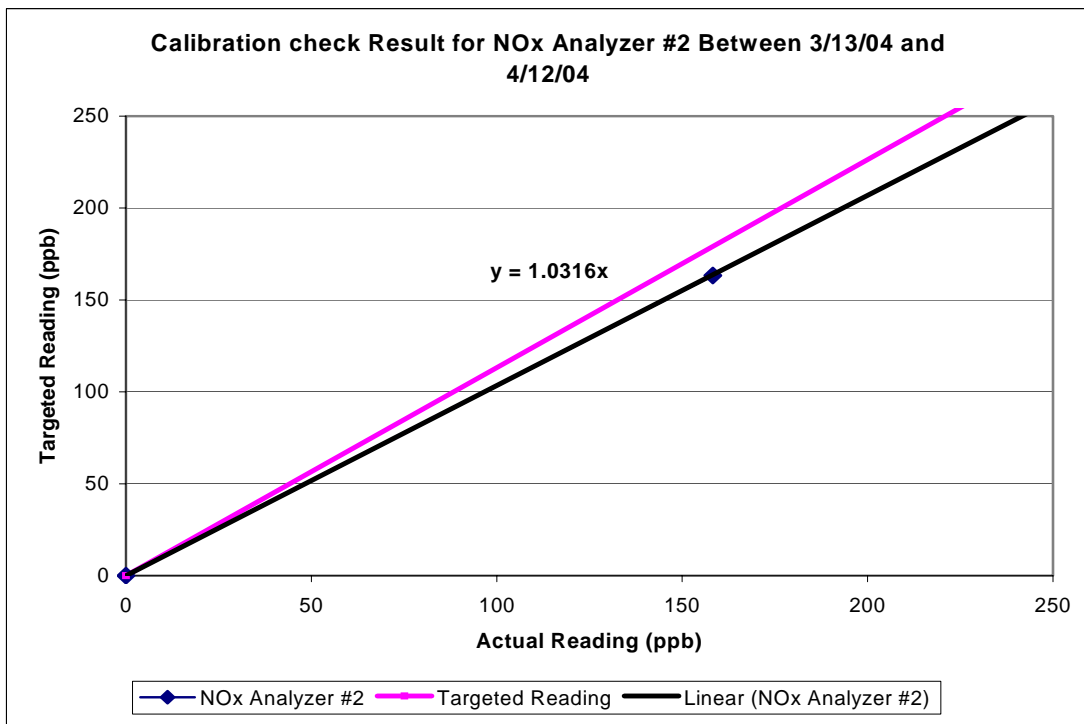
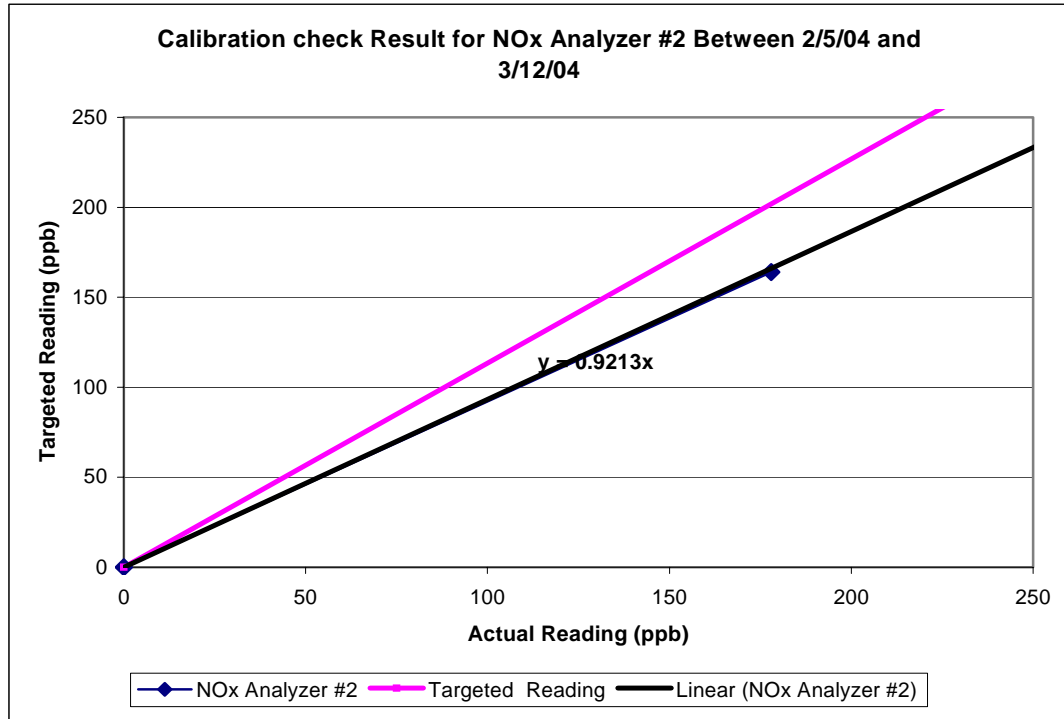
The E-BAM PM<sub>2.5</sub> analyzer membrane check was also performed using the provided span and zero membranes and the test always passed in both E-BAM instruments. The CO analyzer was checked using 50 ppm and 100 ppm CO gases before it was taken to the site and read 52 ppm and 108 ppm of CO. Calibration checks were done 2-3 times / week in the field using a 50-ppm CO span gas. Zero air from a zero air bottle was routinely used to check zero readings of NO<sub>x</sub> and CO analyzers.

All data downloaded from the NO<sub>x</sub> and CO analyzers were adjusted using calibration curves before the data were analyzed.

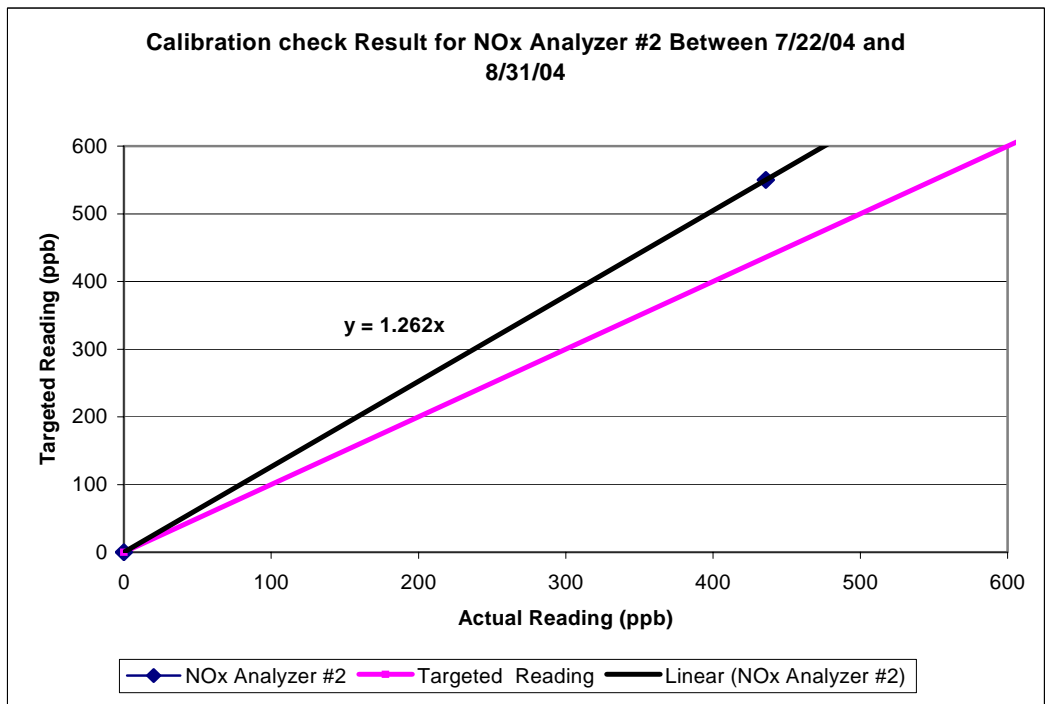
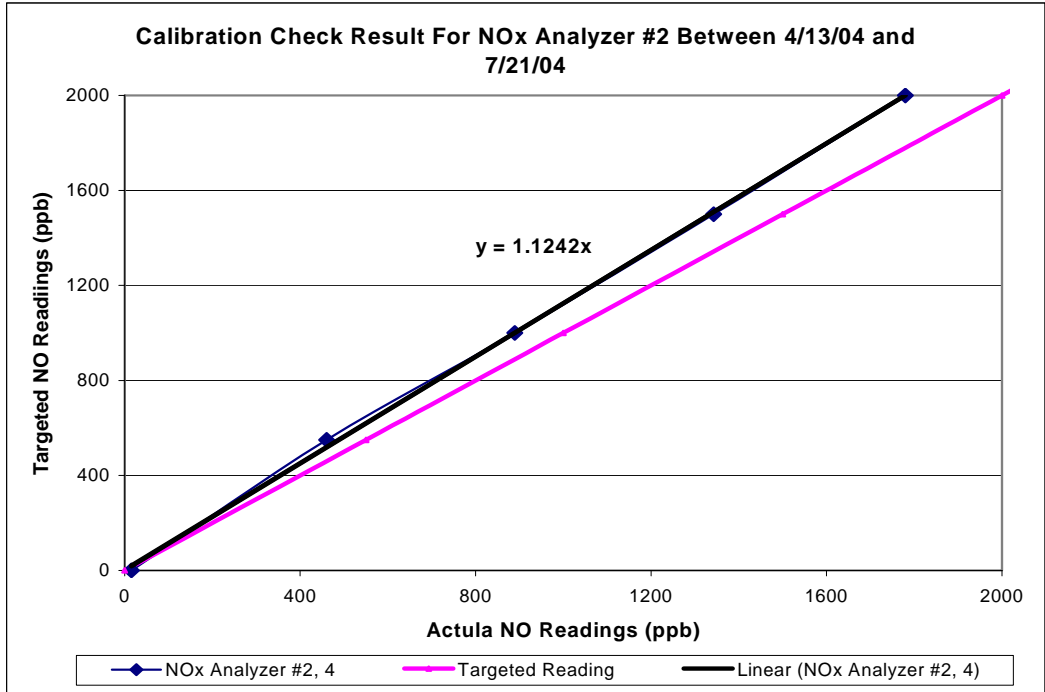


**Figure 3.8** Calibration Check Results for NOx Analyzers at Trailer #1 and Trailer #2





**Figure 3.8** Continued



**Figure 3.8** Continued

### 3.4 Modeling

Line source models such as CALINE are air dispersion models for predicting air quality impacts of pollutants near roadways at the micro-scale. Such models estimate total air pollutant concentrations based on the Gaussian diffusion equation and employ a mixing zone concept to characterize pollutant dispersion over the roadway. On the other hand, the ISCST3 model uses dispersion coefficients in the horizontal and vertical directions and predicts concentrations around point, area, volume or open pit sources using emission rates and meteorological conditions as model input. The ISCST3 EPA approved model was used to predict ambient PM<sub>2.5</sub> and NO<sub>x</sub> concentrations at the sampling sites. The predicted values were then compared to actual measured concentrations. The volume source option was used to simulate emission from idling trucks and other highway sources. The source information includes source location and source emission rate while temperature, wind speed, wind direction, mixing heights and stability classes are included in meteorological information. The ISC Short Term model accepts hourly meteorological data records to define the conditions for plume rise, transport, diffusion, and deposition. The model estimates the concentration for each source and receptor combination for each hour of input meteorology, and calculates user-selected short-term averages.

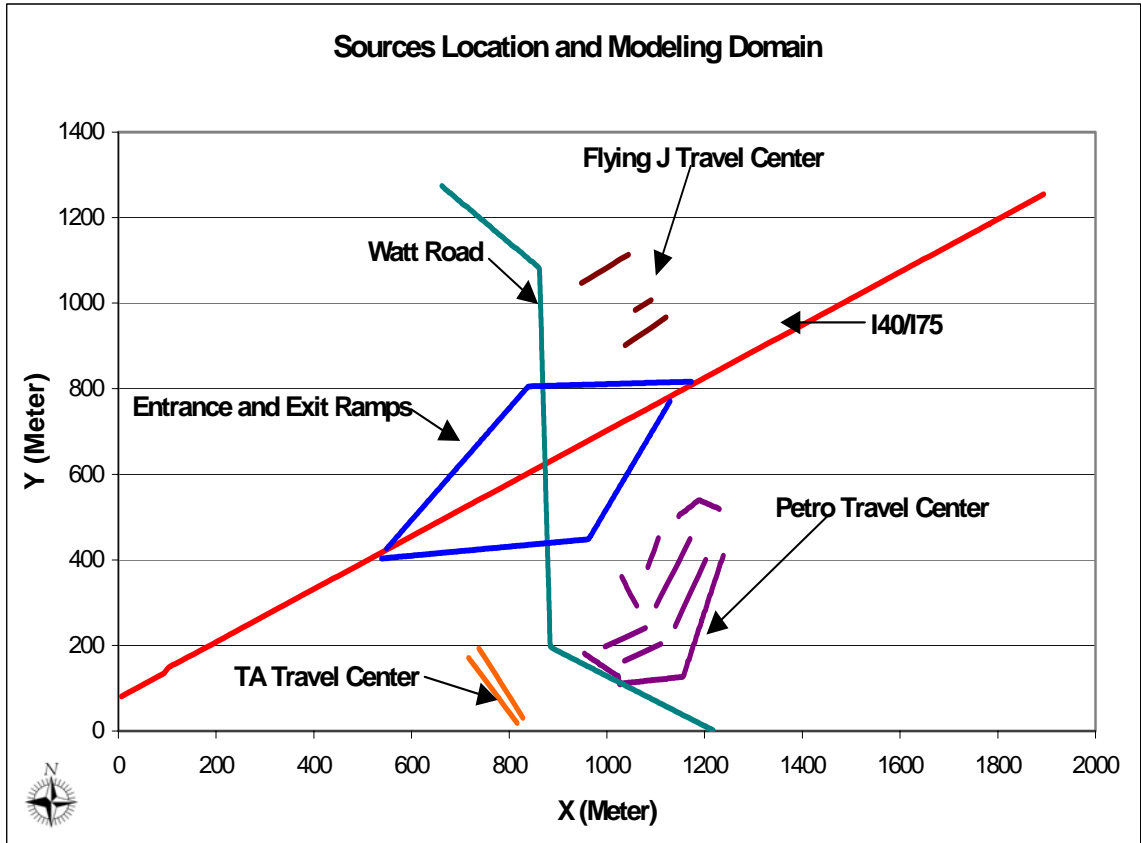
The meteorological file developed from the met data collected at Watt Road Station was used to run the model. The meteorological station measures wind speed, wind direction, ambient temperature, rainfall, barometric pressure, standard deviation of wind direction and solar radiation. Wind speed, wind direction ambient temperature and standard deviation of wind direction were used for developing a meteorological file needed for running the dispersion computer model. Standard deviation of wind direction and wind speed from the met station were used to estimate atmospheric stability class as needed by a dispersion model using a Sigma Theta ( $\sigma_A$ ) method following EPA's "Meteorological Monitoring Guidance for Regulatory Modeling Applications". This method is a turbulence-based method which uses the standard deviation of wind direction in combination with the scalar mean wind speed and time of the day (day or night) to

determine stability classes.(EPA, 2000). Appendix A-4 and A-5 show tables used for the prediction of stability classes using the Sigma Theta ( $\sigma_A$ ) method.

Computer modeling was performed using EPA’s ISCST3 model to determine annual average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations around the Watt Road area. Figure 3.9 shows the location of sources and the modeling domain. As is shown on the figure the modeled area includes the Flying J, Travel America and Petro truck stops, part of I-40/I-75 interstate, part of Watt Road and the entrance and exit ramps of the interstate at Watt Road. All emission sources were modeled as volume sources. MOBILE6.2 emission factors were used for traffic on the interstate, ramps and Watt road. These emission factors from MOBILE6.2 have units of gm/vehicle mile. Since those line sources were modeled as volume sources in ISCST3 the emission factor units were converted to g/hr by multiplying MOBILE6.2 emission factors by the traffic volume in vehicles/hour, and the length of each volume source in miles. For idling trucks inside the truck stop areas emission factors of 135g/hr of NO<sub>x</sub> and 3.68g/hr of PM<sub>2.5</sub> from EPA “Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity” released in January 2004 were used (EPA, 2004). Table 3.1 shows the emission factors and ADT values used to calculate emission rates from sources considered in the model at different sections of the Watt Road area. An example ISCST3 input file for the prediction of ambient NO<sub>x</sub> concentration is shown in Appendix A-6.

**Table 3.1** Speed, Emission Factor and ADT Values Used for Modeling Watt Road Area

	<b>Speed</b>	<b>ADT</b>	<b>NO<sub>x</sub> Emission Factors</b>	<b>PM<sub>2.5</sub> Emission Factors</b>
<b>I-40</b>	65 mi/hr	83000	6.86 g/mi	0.112 g/mi
<b>Watt Road</b>	40 mi/hr	17000	5.22 g/mi	0.15 g/mi
<b>Entrance Ramps</b>	40 mi/hr	6000	7.95 g/mi	0.206 g/mi
<b>Exit Ramps</b>	40 mi/hr	6000	7.95 g/mi	0.206 g/mi
<b>Travel Centers</b>	Idling		135 g/hr	3.68 g/hr

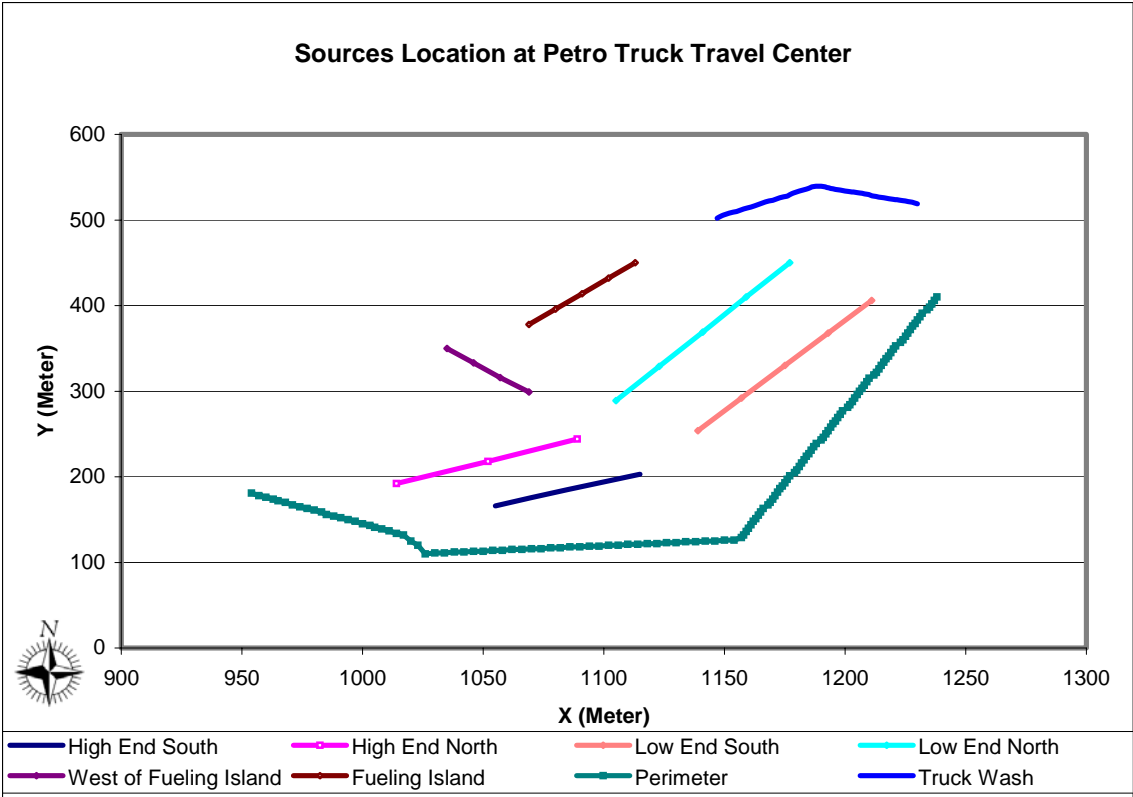


**Figure 3.9** Location of Emission sources and Modeling Domain

Estimation of initial lateral ( $\sigma_{y0}$ ) and vertical ( $\sigma_{z0}$ ) dimensions was also done using the ISCST3 user's guide. Initial lateral and vertical dimensions were set to be equal to  $W/2.15$  and  $h_e / 2.15$  respectively where  $W$  is the length of the side of the volume source and  $h_e$  is the effective emission height (EPA 1995). Emission sources on I40/I75 interstate, Watt Road and entrance and exit ramps were modeled as 29 meters X 29 meters, 11 meters X 11 meters, and 6 meters X 6 meters volume sources, respectively.

Three different dimensions of volume sources were used for different sections of the Petro travel center: Volume sources are arranged along the center line of the line sources. 47 meters X 47 meters was used for the High End North, High End South, Low End North and Low End South parking areas based on the distance of two trucks parked facing each other plus the space between them; the Fueling Island and West of Fueling Island sections were modeled as 20 meters X 20 meters volume sources (representing the length of a single truck). Volume sources at the Truck Wash and at the Perimeter were modeled as 4 meters X 4 meters volume sources (the width of a single truck). Figure 3.10 shows the detailed location of volume sources considered in the model at Petro truck travel center. Volume source heights of 4 meters were assigned for all volume sources based on the height of the exhaust stack of most trucks. Emission sources at the Low End South, Low End North sections, Fueling Island and West of Fueling Island were each represented by five volume sources and emission sources at the High End North and High End South sections were each represented by three volume sources. Sources at the Truck Wash were modeled as 27 volume sources and those at the Perimeter were modeled as 133 volume sources.

Prediction of achievable reductions in ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> were made by running the model for a "no-long term idling" case. This case represents a condition where enough IdleAire electrifications units are available to accommodate all idling trucks inside the truck stop.



**Figure 3.10** Location of Emission Sources at Petro Truck Travel Center

All emission sources considered in the computer modeling are line sources and were treated as volume sources as suggested by ISC user's guide.

The following computer runs were performed.

- Detailed runs of Petro truck travel center to determine 1-hour and 24-hours average concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> inside the travel center at the two monitoring stations for the duration of this study. This was done to determine the accuracy of the model by comparing monitored and predicted values. Comparison was done using a scatter plot diagram and statistical performance tests. Monitored and modeled 24-hour average NO<sub>x</sub> concentrations at the two monitoring sites were directly compared while monitored PM<sub>2.5</sub> concentrations were adjusted for background PM<sub>2.5</sub> concentration.
- Runs to determine annual average and maximum 24-hour average concentrations of NO<sub>x</sub>, and PM<sub>2.5</sub> around the Watt Road.
- A single run to determine the achievable emission reduction from IdleAire electrification technology.

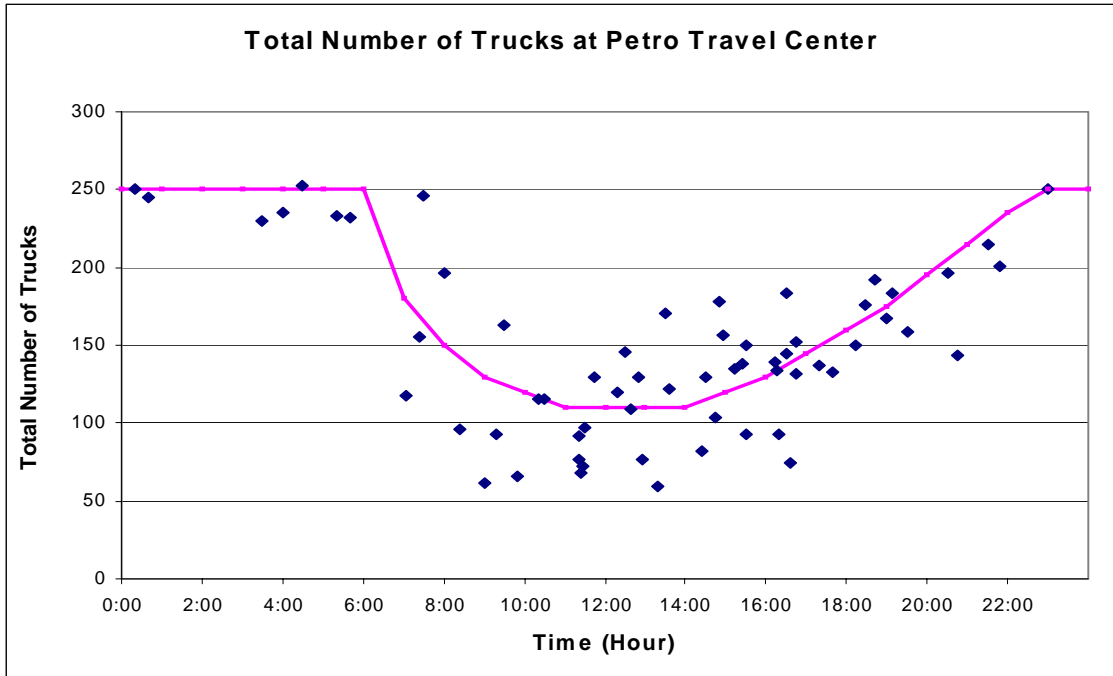


## 4 RESULTS AND DISCUSSIONS

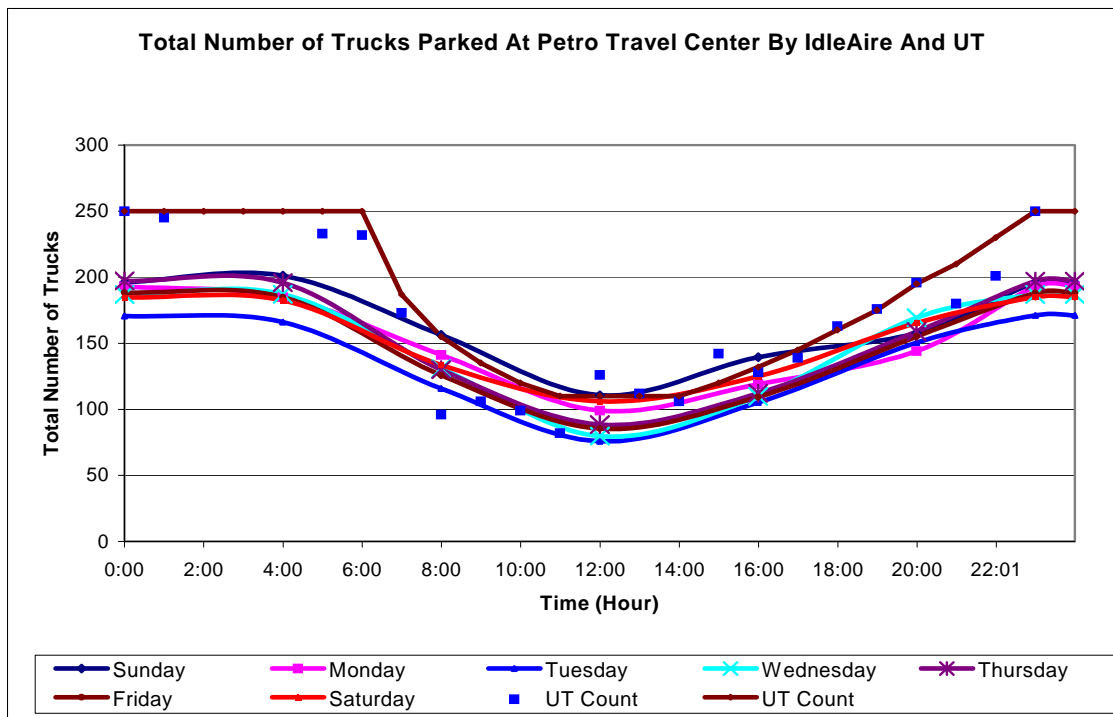
### 4.1 Truck Counts

Visual time observations and direct counts were utilized to identify and characterize the major activities at the travel center. All relevant activities that are associated with emissions in and around the truck travel center were identified. Parking with engine off, parking while idling, parking with engine off and using IdleAire facility, filling up at the fueling station, using the truck wash facility, and moving around the travel center looking for a parking space or while leaving were identified as major modes of activities at the truck travel center. Truck counts were performed at different hours of the day and on different days of the week to determine the trend of total and idling truck numbers inside Petro truck travel center. Results of total number of trucks inside Petro truck at different hours of the day are shown in Figure 4.1. A curve shown in Figure 4.1 represents average trend of total number of trucks at the travel center. This curve was drawn by visually fitting a line between points that represent results of total number of trucks from a truck count.

Truck counts were also done by IdleAire during the study period of this research. Total numbers of trucks parked within a 216 space area (i.e. not the entire area) were counted daily at 12a.m., 4 a.m., 8 a.m., 12 p.m., 4 p.m. and 8 p.m. by IdleAire employees. A summary of truck counts result by IdleAire between December 2003 and August 2004 is shown in Figure 4.2. The figure also shows the average truck count by time of the day performed by the University of Tennessee. As stated above, IdleAire truck counts were performed daily every 4 hours and the result is summarized by day of the week and hour of the day while the truck count by the University of Tennessee was done at randomly selected days and hours and the result is summarized only by hour of the day. For the truck count done by the University of Tennessee, effort was made to cover all days of the week and hours of the day to have representative truck count result.



**Figure 4.1** Total Number of Trucks at Petro Travel Center at Different Hours of The Day

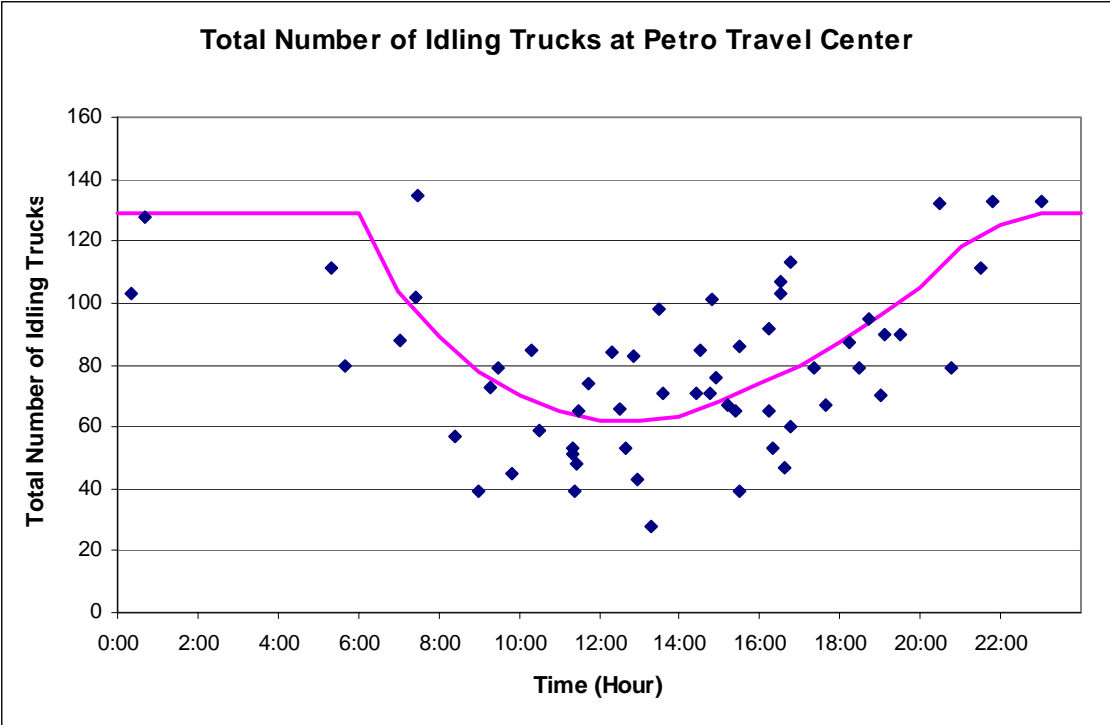


**Figure 4.2** Total Number of Trucks at Petro Travel Center Counted by IdleAire and UT

The total number of trucks counted by the University of Tennessee shown in Figure 4.2 represents the average number of idling trucks everywhere on the Petro site at each hour combining all available data. A visual fit curve was drawn between points of total number of truck counts at Petro travel center by the University of Tennessee to show trend of number of trucks at the travel center versus time of the day. Curves of total number of trucks by IdleAire were made by joining points representing average total number of trucks for the duration of this study.

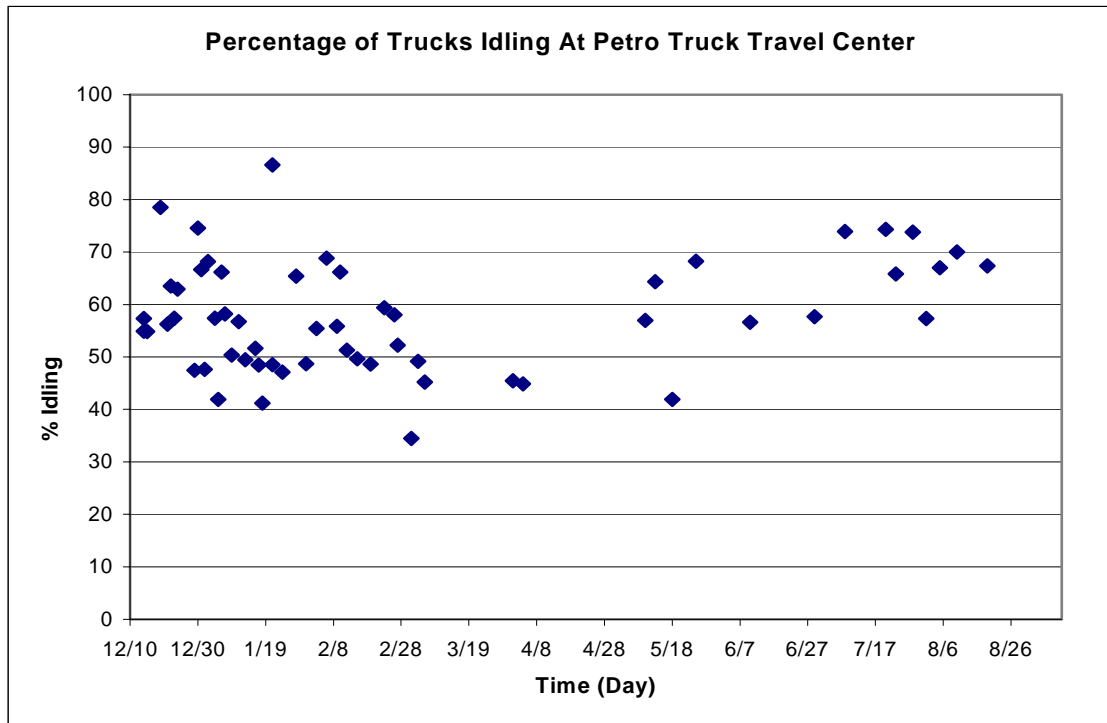
Both truck counts, done by IdleAire and University of Tennessee, show similar trends of the total number of trucks at Petro truck travel center. As can be seen in the figure, the number of trucks is higher at night and early morning compared to daytime. The number of trucks starts to increase late in the afternoon and reaches near the maximum capacity of the travel center around mid-night and remains full until the early morning hours (around 6 a.m.) when trucks begin to leave the travel center. IdleAire counts show a relatively higher number of trucks on Sundays compared to other days of the week. This could be because many truck drivers start driving late on Sunday afternoon for Monday morning delivery or pick-up. Truck counts done by IdleAire did not include the number of trucks using the fueling island, trucks using the truck wash facility and trucks parked at the perimeter and west of the fueling island section thereby making the average total number of truck count values by the University of Tennessee to be higher than that of IdleAire.

Figure 4.3 shows the number of idling trucks at the Petro travel center versus time of the day. The number of idling trucks starts to increase in the afternoon, reaches a peak near midnight and remains to be high until early morning. The figure also shows a visually fit curve showing an average trend line of the number of idling trucks at the Petro travel center in a day. The number of idling trucks shows a similar trend to that of the total number of trucks parked (i.e. higher at night and early morning compared to day-time). This trend varies little by day of the week.

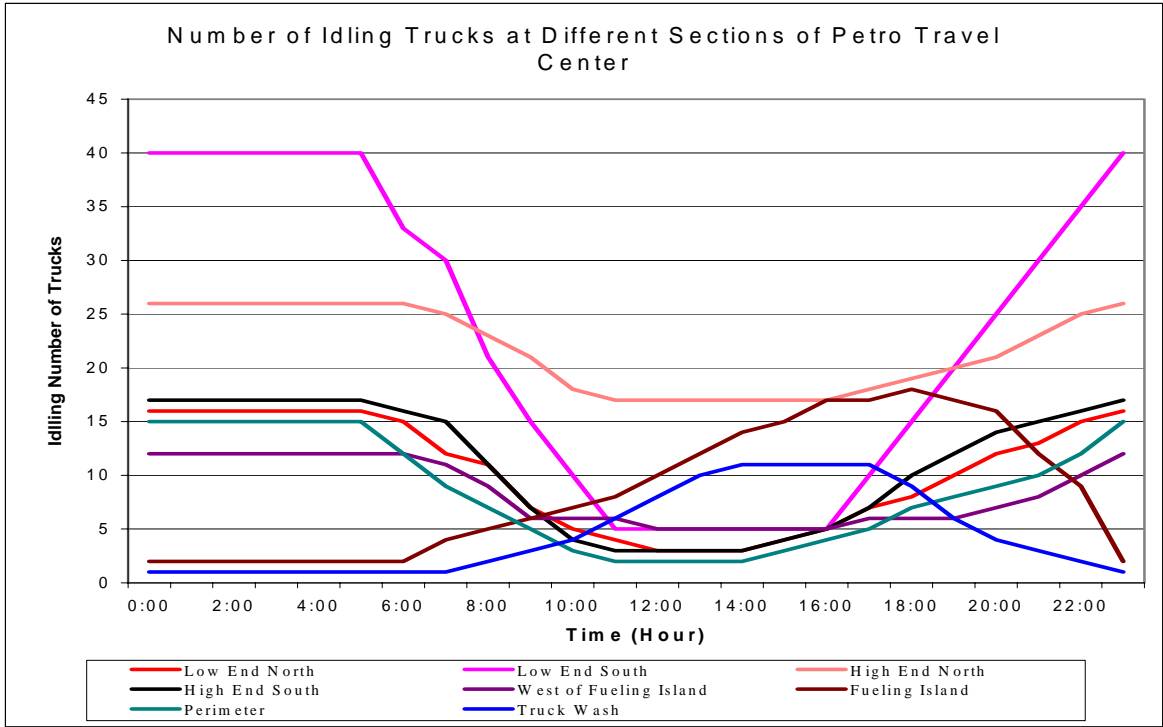


**Figure 4.3** Total Number of Idling Trucks at Petro Travel Center at Different Hours of The Day

Comparing the number of idling trucks at a particular hour to the total number of trucks at the travel center it can be seen that on average 50 to 60 percent of trucks were idling. The remaining 40 to 50 percent of trucks either turned their engine off or connected to IdleAire units. Results of traffic counts show that on average the number of trucks idling at the Petro truck travel center is higher at nighttime compared to daytime. An effort was also made to see if there was a trend in the percentage of idling trucks at the truck travel center with season. As can be seen in Figure 4.4, there is no clear trend in the percentage of idling trucks with season, although the highest percentage of idling trucks (> 70%) was observed during the coldest weather in December and January and during the hottest weather in July and August. Trends in the number of idling trucks at each section of the truck stop shown in Figure 4.5 were used for estimating hourly emissions at different section of the travel center for simulating emissions in each area for computer modeling. Appendix A-1 shows summary table of truck count (total and idling number of trucks) at Petro travel center performed for this study.



**Figure 4.4** Percentage of Idling Trucks at Petro Truck Travel Center



**Figure 4.5** Number of Idling Trucks at Different Sections of Petro Truck Travel Center

Also calculated from the truck count data were the average occupancy rate of available parking spaces and the use rate of IdleAire equipment. The average occupancy rate over the eight-months study ranged from 65 to 68 percent for IdleAire and UT data, respectively. Slightly higher occupancy rates were observed for the IdleAire equipped spaces during the summer months of June, July and August. During this period the average occupancy rate of IdleAire equipped spaces was 64% based on 475 counts every 4-hours by IdleAire employees. However not all trucks parked in IdleAire equipped spaces actually connected to and used the IdleAire equipment. The average use rate of IdleAire equipment measured by UT was 43 percent with a standard deviation of  $\pm 17$  percent. Use rate was calculated as the percentage of trucks using the equipment compared to all trucks parked in the 110 IdleAire equipped spaces. Of the trucks parked in IdleAire equipped spaces, an average of 43 percent connected to and used the equipment while 32 percent idled their engines, and 25 percent parked without idling and not connected to the IdleAire units.

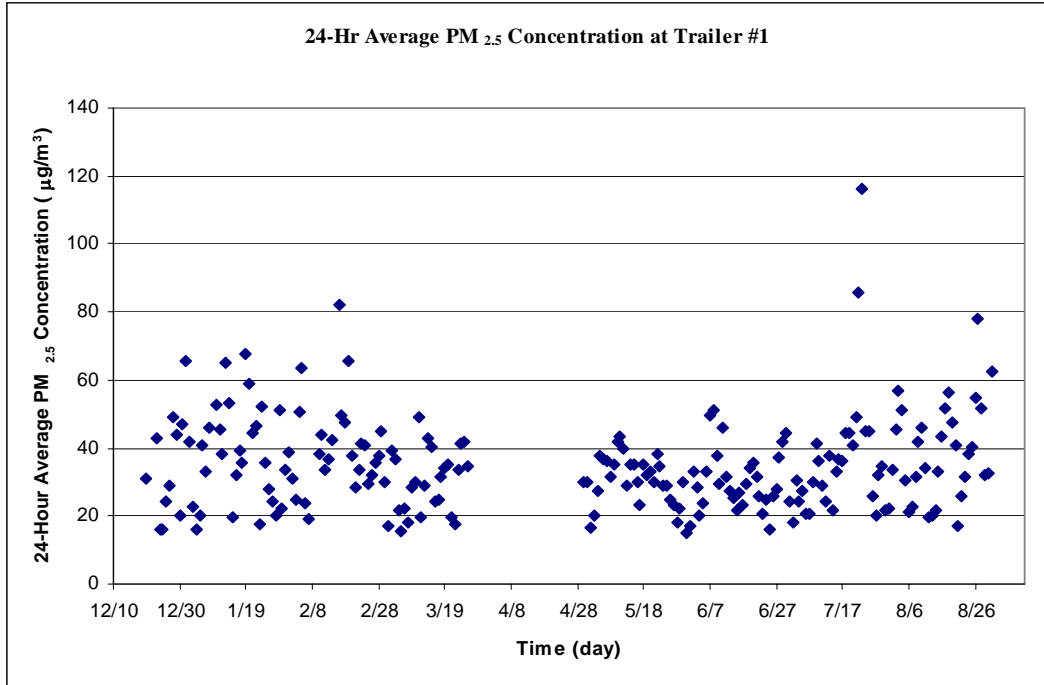
## 4.2 Analysis of Monitored Ambient Concentrations

### 4.2.1 24-Hour Average Values

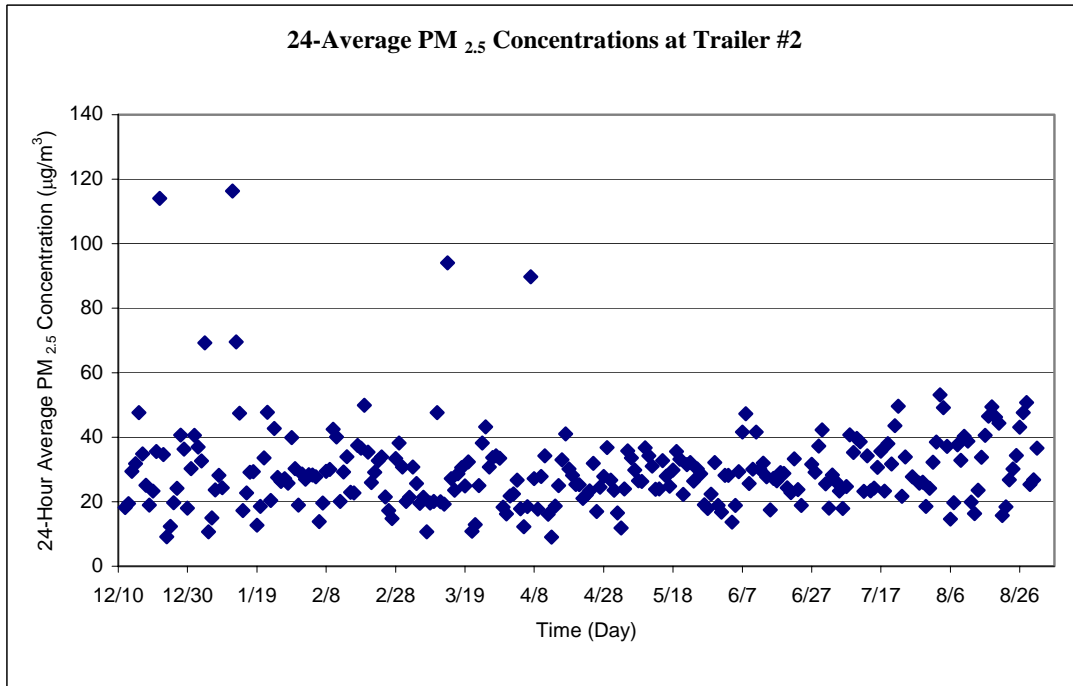
#### PM<sub>2.5</sub>

Scatter plots of 24-hour average measured 1-hour average PM<sub>2.5</sub> concentrations at trailer #1 and trailer #2 are shown in Figure 4.6 and Figure 4.7. The 24-hour average values were calculated for days that have 18 hours or more of hourly average PM<sub>2.5</sub> concentration records. Between March 27 and April 27 the E-BAM PM<sub>2.5</sub> analyzer at trailer #1 was not functioning due to a problem with its barometric pressure sensor and no data was collected during that period at trailer #1 until the instrument was repaired.

As can be seen in the figures the 24-hour average PM<sub>2.5</sub> concentration values were greater than the annual average NAAQS of 15 µg/m<sup>3</sup> at trailer #1 throughout the entire study period while at trailer #2 the 24-hour average values were greater than the standard on 95 % of the monitored days. On the other hand there are only a few days that exceeded the 24-hour average NAAQS of 65 µg/m<sup>3</sup> at both monitoring trailers. The highest 24 hour average value at trailer #1 was 116 µg/m<sup>3</sup> followed by 86 µg/m<sup>3</sup> and 82 µg/m<sup>3</sup>. At trailer #2 the 24-hour average NAAQS was exceeded 6 times, the highest concentrations being 116 µg/m<sup>3</sup>, 114 µg/m<sup>3</sup> and 94 µg/m<sup>3</sup>. The lowest 24-hour average PM<sub>2.5</sub> concentrations observed were 15 µg/m<sup>3</sup> at trailer #1 and 9 µg/m<sup>3</sup> at trailer #2. The 24-hour average NAAQS was exceeded only 3.7% of the time at trailer #1 and 2.3 % of the time at trailer #2. The figures also show that most of the 24-hour average readings are between 20 and 40 µg/m<sup>3</sup> at both trailers, which is half to two-thirds of the 24-hour average NAAQS.



**Figure 4.6** 24-Hour Average of Monitored PM<sub>2.5</sub> Concentration at Trailer #1

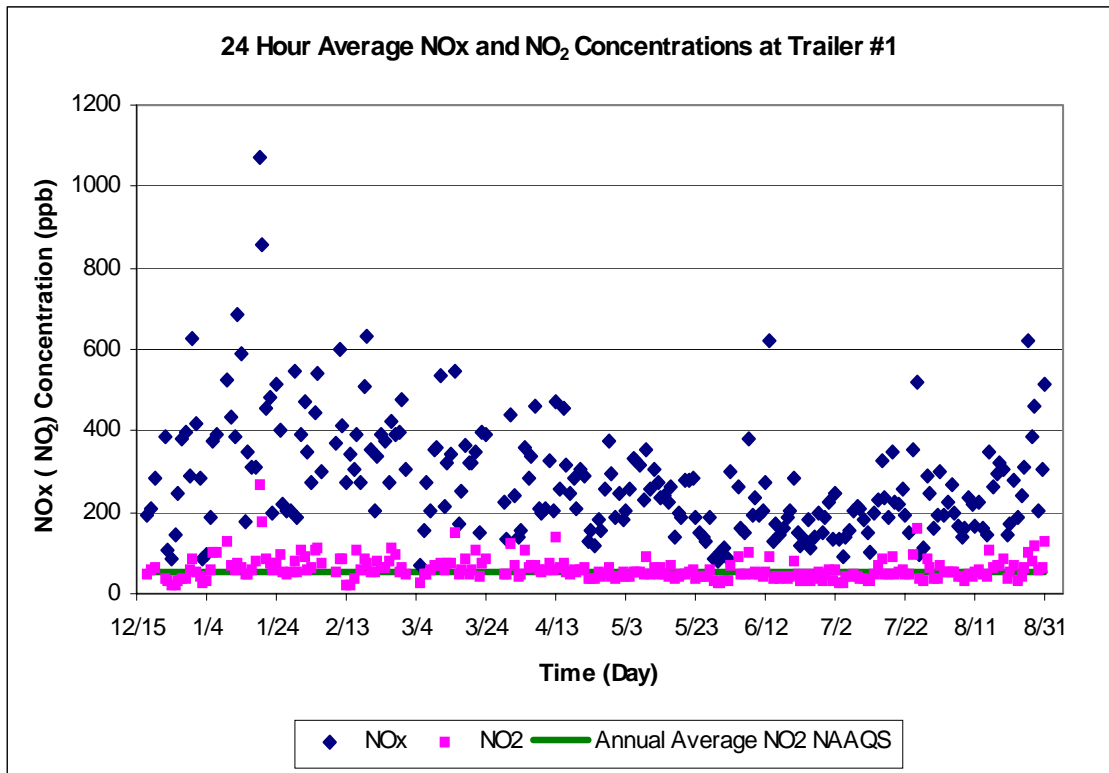


**Figure 4.7** 24-Hour Average of Monitored PM<sub>2.5</sub> Concentration at Trailer #2

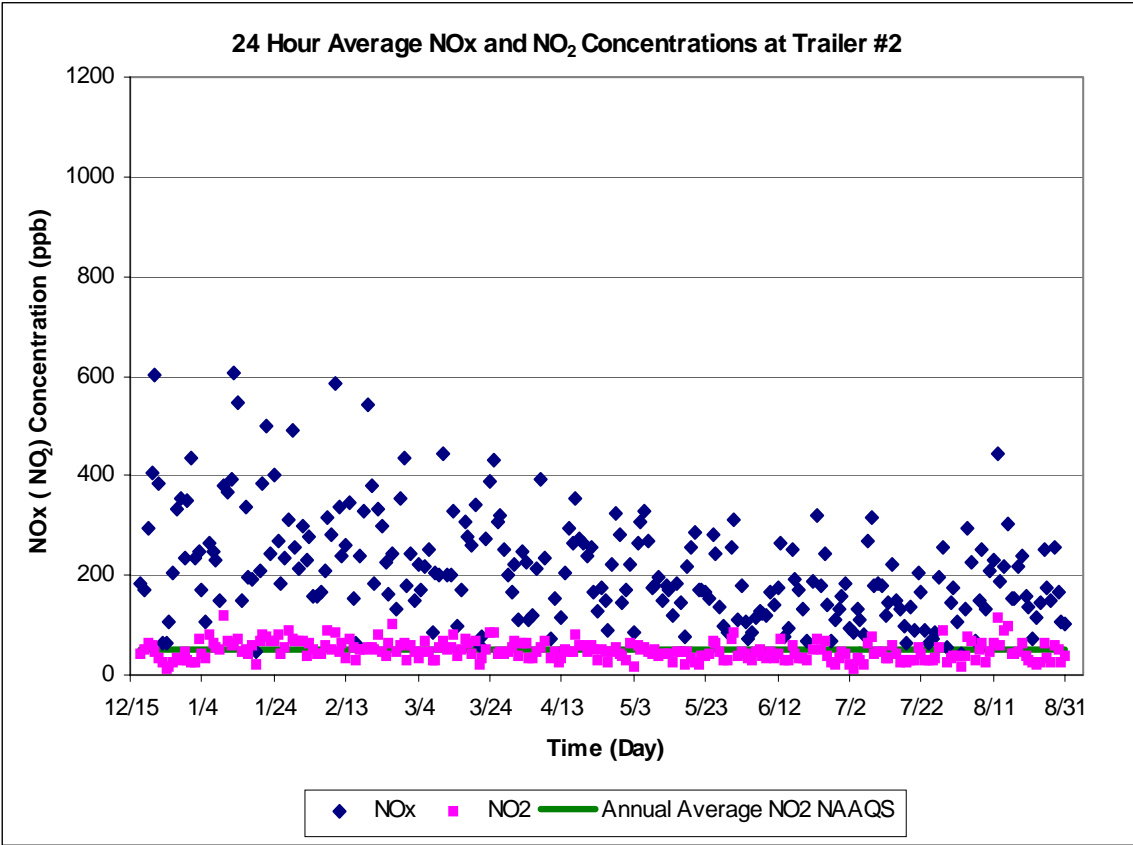


## NO<sub>x</sub>

The 24-hour average NO<sub>x</sub> and NO<sub>2</sub> concentrations were calculated and plotted from hourly average values monitored between December 2003 and August 2004 at the two monitoring trailers. Figure 4.8 and Figure 4.9 show the scatter plot of 24-hour average NO<sub>x</sub> and NO<sub>2</sub> concentrations at trailer #1 and trailer #2 together with the annual average National Ambient Air Quality Standard (NAAQS) for NO<sub>2</sub>. At both trailers the 24-hour average NO<sub>x</sub> concentrations show a decreasing trend from December 2003 to August 2004. The lowest 24-hour average NO<sub>x</sub> concentrations during the study period were 68 ppb at trailer #1 and 42 ppb at trailer #2.



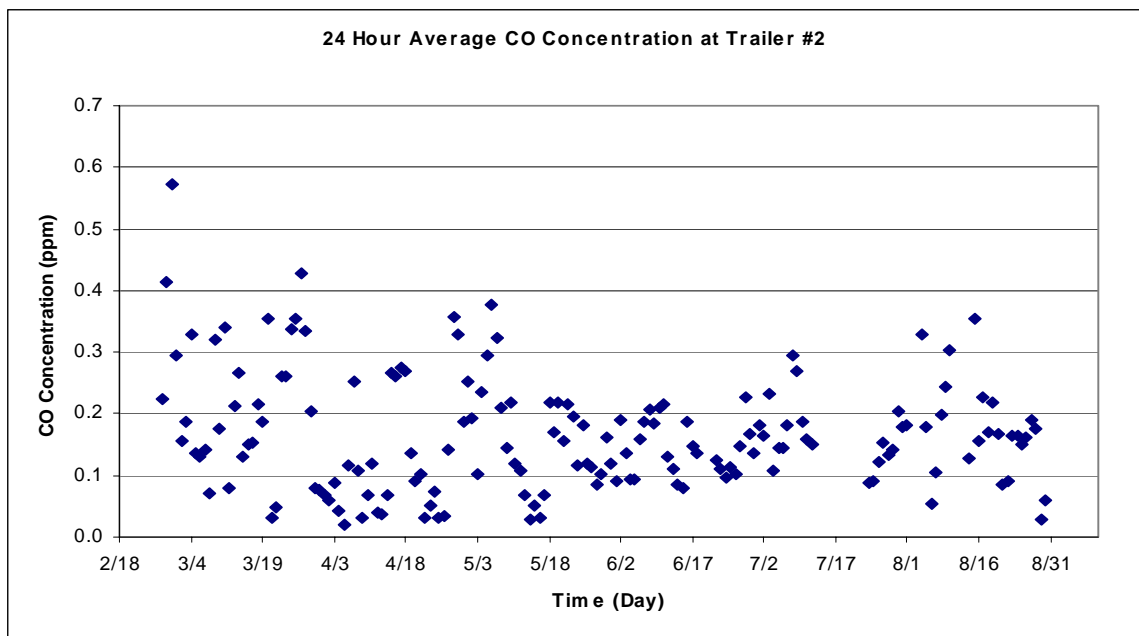
**Figure 4.8** 24-Hour Average of NO<sub>x</sub> and NO<sub>2</sub> Concentration Monitored at Trailer #1



**Figure 4.9** 24-Hour Average of NO<sub>x</sub> and NO<sub>2</sub> Concentration Monitored at Trailer #2

## CO

A scatter plot of 24-hour average CO concentrations at trailer #2 inside Petro truck stop is shown in Figure 4.10. Higher concentrations were observed between February and April compared to later months. The plot shows that the measured concentrations were much lower with the highest 24-hour average concentration value of 0.57 ppm. This is because of lower CO emission from heavy-duty-diesel-trucks compared to that of gasoline vehicles. Heavy-duty diesel trucks burn fuel with excess air which reduces the amount of CO in the exhaust. The maximum observed 1-hour average CO concentration during the study period was 1.92 ppm which is much lower than the 1-hour average NAAQS of 35ppm. On average ambient NO<sub>x</sub> concentrations at trailer #1 were higher than ambient NO<sub>x</sub> concentrations at trailer #2 by a factor of 1.66. This indicates that the expected highest one hour CO concentrations at the site may be higher than 1.92 (on average CO concentrations at trailer #1 may be expected to be 1.66 times the concentrations at trailer #2). As was expected at the beginning of this study, CO concentrations at the truck travel center did not exceed the EPA's NAAQS since the travel center is mostly used by heavy-duty diesel vehicles which have low CO emissions.

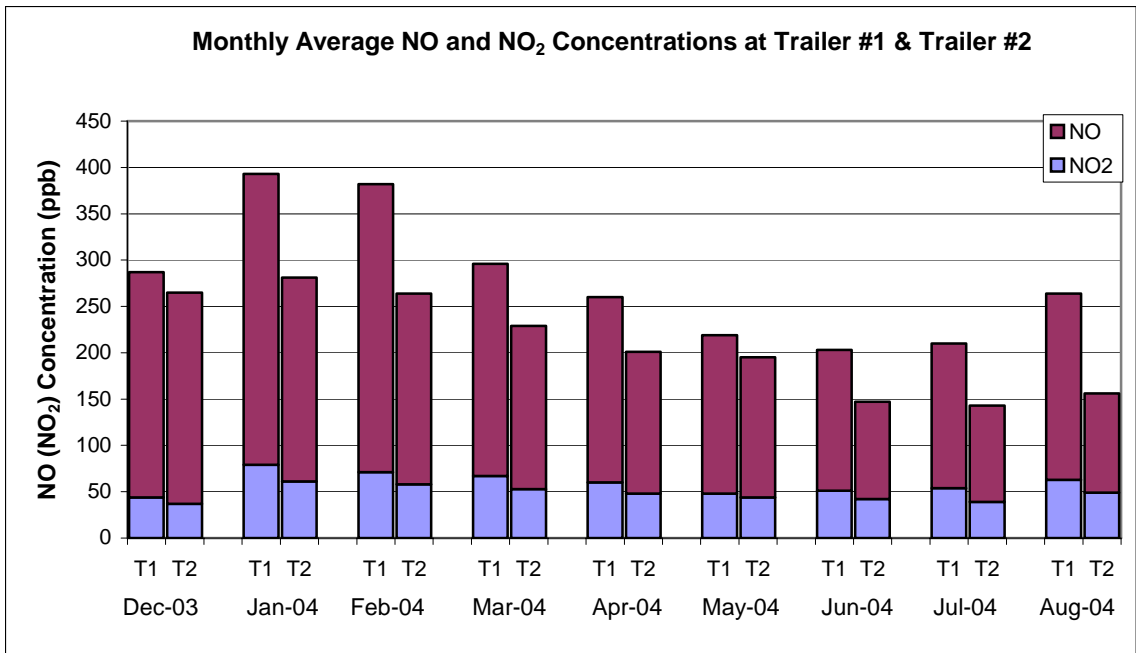


**Figure 4.10** 24-Hour Average of CO Concentration Monitored at Trailer #2

## 4.2.2 Monthly Means

### NO<sub>x</sub>

Monthly average NO<sub>x</sub> concentrations at both trailers are shown on a bar chart in Figure 4.11. The blue part of the stack chart shows the portion of NO<sub>x</sub> that is NO<sub>2</sub> while the red part shows the portion of NO<sub>x</sub> that is NO. The graph shows a decreasing trend in NO<sub>x</sub> concentration between January and June and average monthly NO<sub>x</sub> concentration showed an increasing trend in July and August. The highest monthly average NO<sub>x</sub> concentration of 393 ppb was observed at trailer #1 and 291 ppb at trailer #2 (both observed in January). As can be seen in the figure the portion of NO<sub>x</sub> that is NO<sub>2</sub> ranged from 15% in December to 26% in July at trailer #1 and it ranged from 13% in December to 29% in June at trailer #2. Reaction between ozone and NO results in the formation of NO<sub>2</sub> and this could be a reason for increasing the proportion of NO<sub>x</sub> that is NO<sub>2</sub> in summer. On average NO<sub>2</sub> accounted for a 22% of NO<sub>x</sub> at trailer #1 and 23% at trailer #2 during the study period.

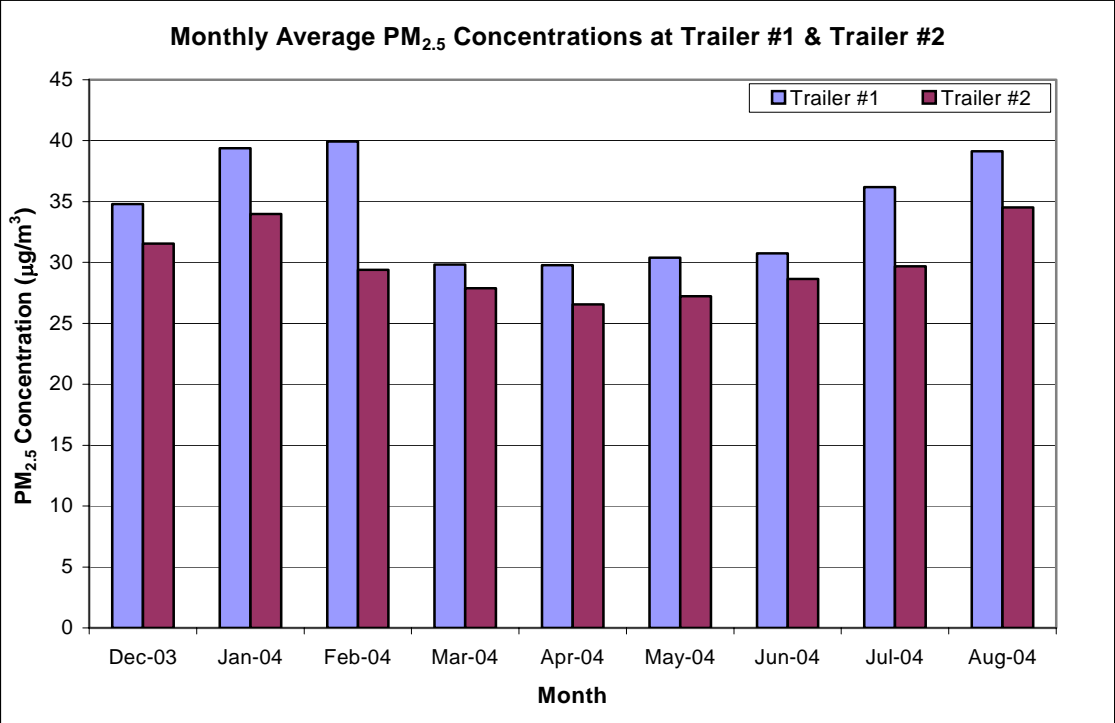


**Figure 4.11** Monthly Average of Monitored NO and NO<sub>2</sub> Concentration at Trailer #1 and Trailer #2

## PM<sub>2.5</sub>

Monthly average PM<sub>2.5</sub> concentrations observed at the two monitoring sites showed that concentrations at trailer #1 were consistently higher than concentrations at trailer #2. As can be observed in Figure 4.12 all monthly average values are higher than the annual average NAAQS value of 15 µg/m<sup>3</sup>. The average PM<sub>2.5</sub> concentrations between December 2003 and August 2004 at trailer #1 was 35 µg/m<sup>3</sup>, more than twice the annual NAAQS. At trailer #2 it was 30 µg/m<sup>3</sup>, twice the NAAQS. Monthly mean PM<sub>2.5</sub> concentrations showed a trend of being higher in winter (mostly in January and February) followed by decreased monthly mean values from March to June. In July and August concentrations increased again at both sites.

PM<sub>2.5</sub> concentrations measured at Look Rock showed that ambient concentrations are higher during summer time and lower during winter. During summer there is an increase in the formation of secondary PM<sub>2.5</sub>, thereby increasing the total PM<sub>2.5</sub> concentrations measured at Look Rock. Ambient PM<sub>2.5</sub> concentration measured at Look Rock are highly affected by the formation of secondary PM<sub>2.5</sub> while at the study site the concentration of PM<sub>2.5</sub> is highly affected by truck activities taking places at the travel centers. Idling of trucks increase relatively during the hot summer months and cold winter months resulting in the increase of PM<sub>2.5</sub> concentrations in summer and winter months and lower concentrations during the months of March, April, May and June when idling was relatively low. During the study period the monthly average value of PM<sub>2.5</sub> reached a high of 40 µg/m<sup>3</sup> in February at trailer #1 and 35 µg/m<sup>3</sup> at trailer #2 in August. Not all PM<sub>2.5</sub> concentrations measured at the Petro site are due to emissions from idling trucks. PM<sub>2.5</sub> concentrations averaged 13 µg/m<sup>3</sup> at the Look Rock regional background site during the same period. The emissions from idling trucks increase ambient concentration above background values. This is addressed in more detail in section 4.3 of this report.



**Figure 4.12** Monthly Average PM<sub>2.5</sub> Concentration at Trailer #1 and Trailer #2

## CO

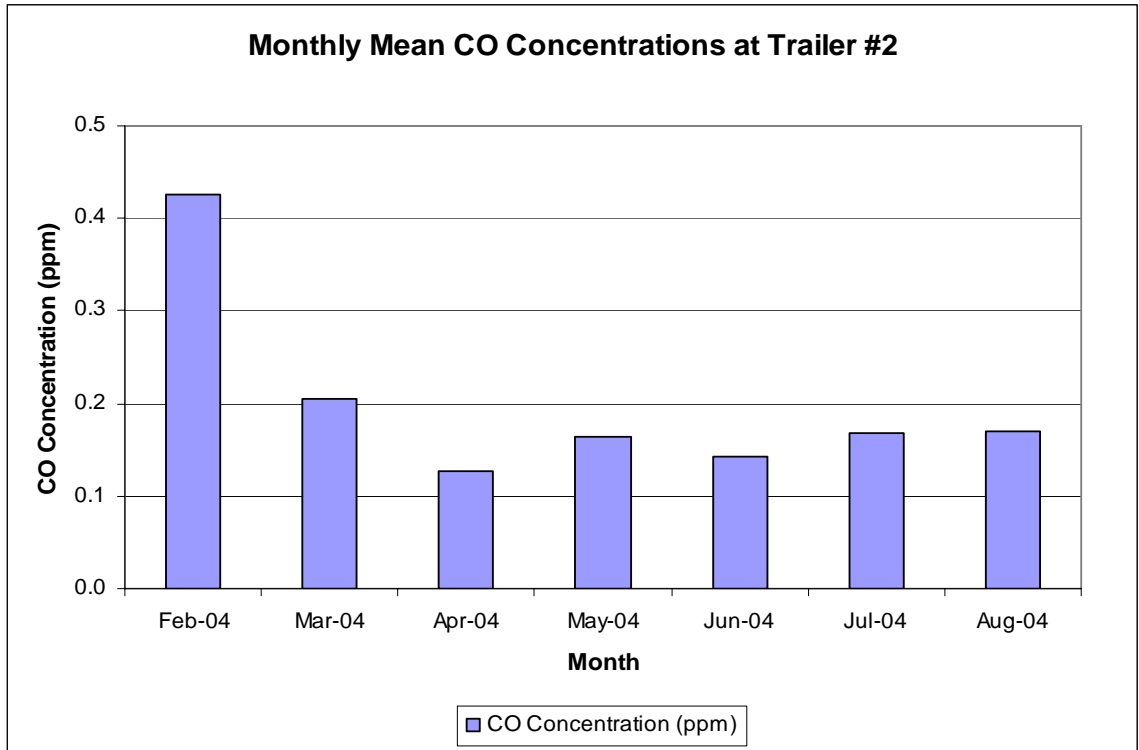
A bar chart plot of monthly average CO ambient concentrations monitored at trailer #2 is shown in Figure 4.13. The highest monthly average CO concentration was observed in February while the lowest concentration was observed in March. The monthly average CO concentration in February was about 0.43 ppm while in the remaining months the monthly concentration was less than half of the average monthly value in February.

### 4.2.3 Hourly Means by Time of Day

## NO<sub>x</sub>

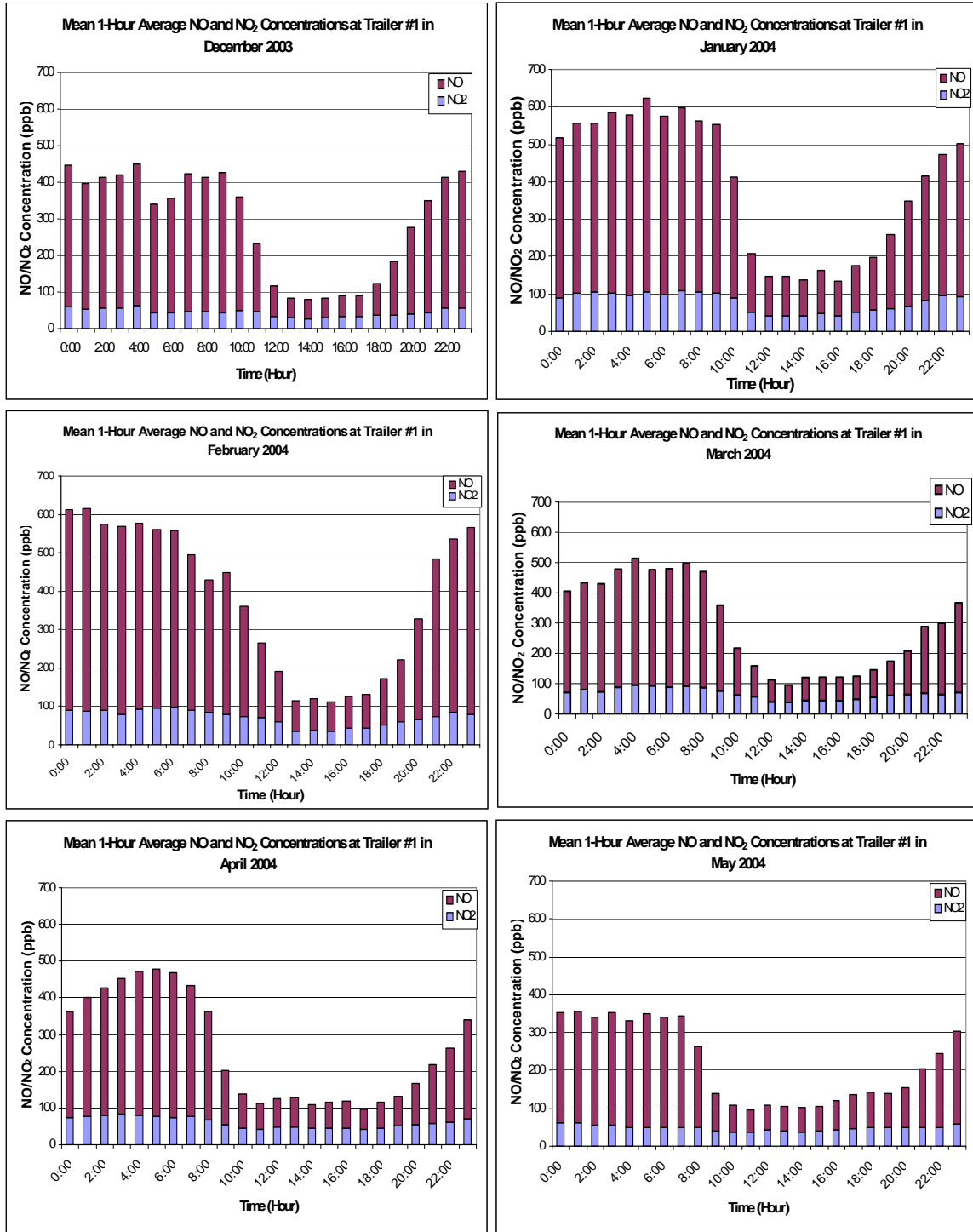
Figure 4.14 and Figure 4.15 show stack bar chart graphs of mean 1-hour average NO<sub>x</sub> concentrations measured by hour-of-day at trailer #1 and trailer #2 by particular month. The part of the chart that is shown in periwinkle color represents the portion of NO<sub>x</sub> that is NO<sub>2</sub> and the plum part represents the NO portion of the total NO<sub>x</sub>. As can be seen on the bar charts mean 1-hour average concentrations of NO<sub>x</sub> in the ambient air vary with a consistent trend with time.

Concentrations were high at night and remained high until the early morning hours (8 or 9 o'clock). NO<sub>x</sub> concentrations started to decrease at late morning hours and kept on decreasing until late afternoon. Ambient NO<sub>x</sub> concentrations reached minimum values around mid-day and remained low until concentrations increased again during the early evening hours. NO<sub>x</sub> ambient concentration has a trend similar to that of a trend of number of idling trucks at the Petro truck travel center. There are more idling trucks during the night than at mid-day. Truck emission rate is one factor that accounts for the change in NO<sub>x</sub> ambient concentrations together with other meteorological factors.



**Figure 4.13** Monthly Average CO Concentration at Trailer #2





**Figure 4.14** Trends of Mean 1-Hour average NO and NO<sub>2</sub> by Hour of the Day For Different Months at Trailer #1

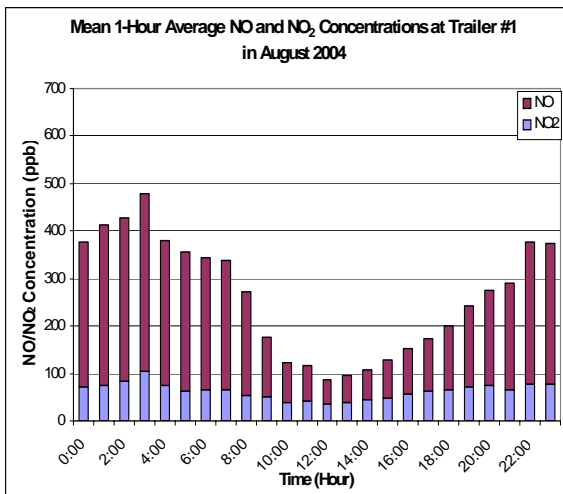
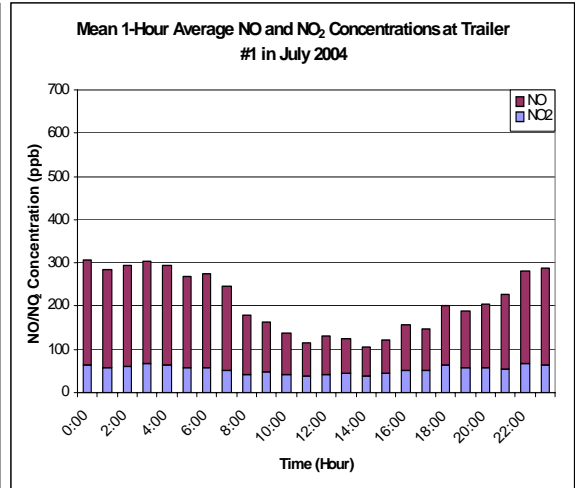
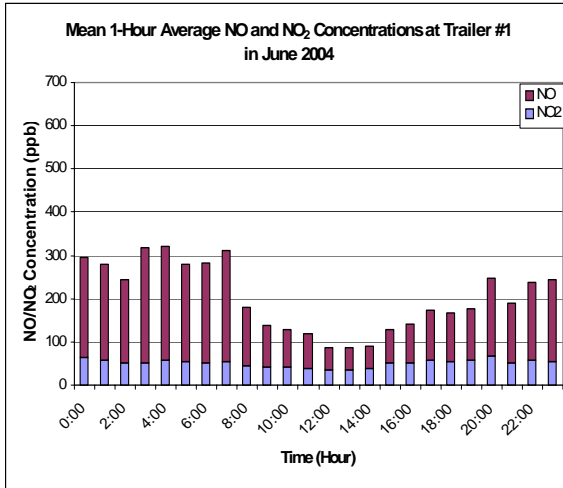
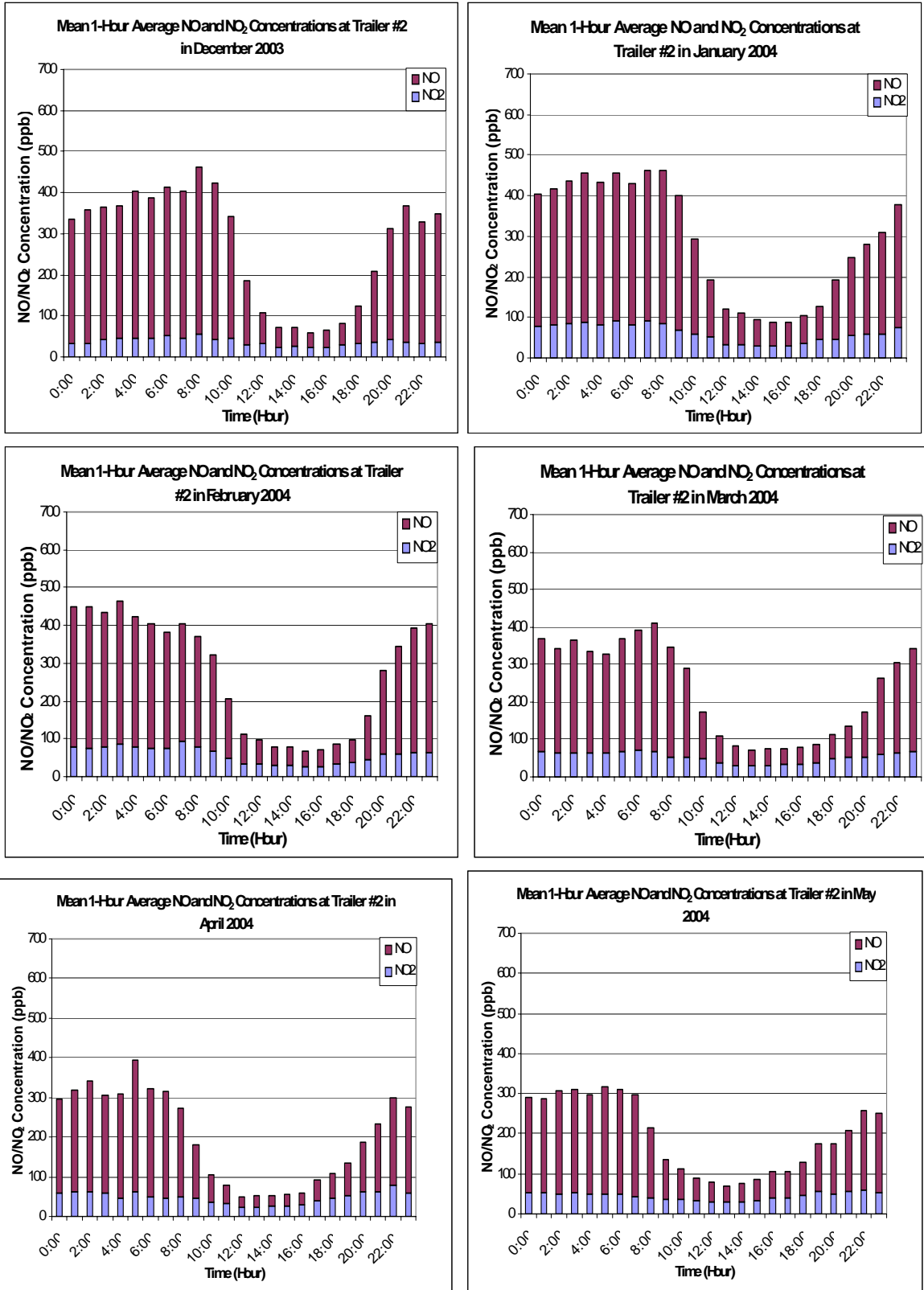


Figure 4.14 Continued



**Figure 4.15** Trends of Mean 1-Hour average NO and NO<sub>2</sub> by Hour of the Day For Different Months at Trailer #2

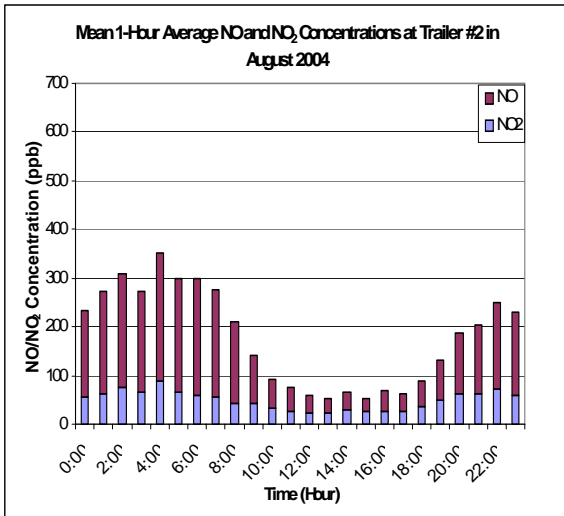
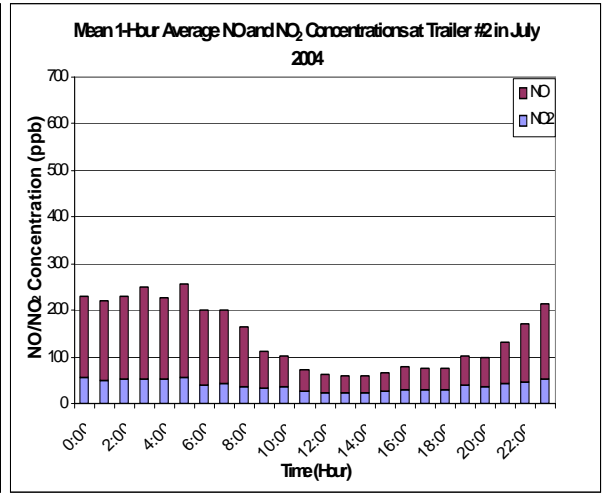
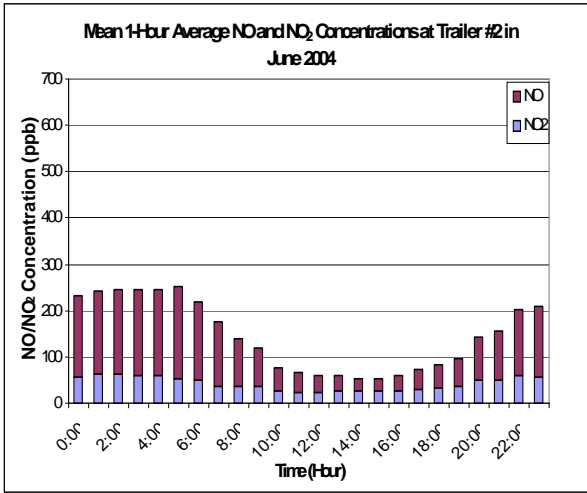


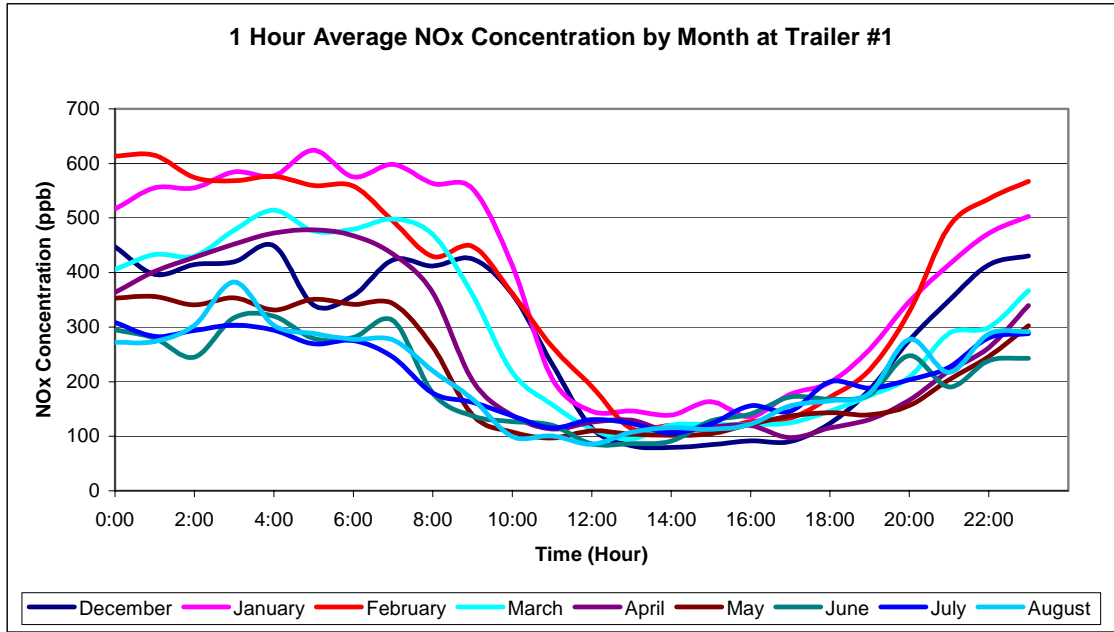
Figure 4.15 Continued

Measured ambient NO<sub>x</sub> concentrations also reveal that on average NO<sub>2</sub> accounted for 22 % of NO<sub>x</sub> at trailer #1 and 23 % of NO<sub>x</sub> at trailer #2. Comparing winter and summer measured data showed that the proportion of NO<sub>2</sub> is higher in summer than in winter. As an example NO<sub>2</sub> accounts on average to 20% and 21 % of NO<sub>x</sub> in January at trailer #1 and trailer #2 respectively and the proportion increased to 26% and 27 % in July at the two trailers. This change in proportion of NO<sub>2</sub> to NO<sub>x</sub> is likely due to the increased concentration of ozone in the ambient air during summer season. Ozone reacts with NO and results in the conversion of some NO to NO<sub>2</sub> resulting in higher NO<sub>2</sub> concentration.

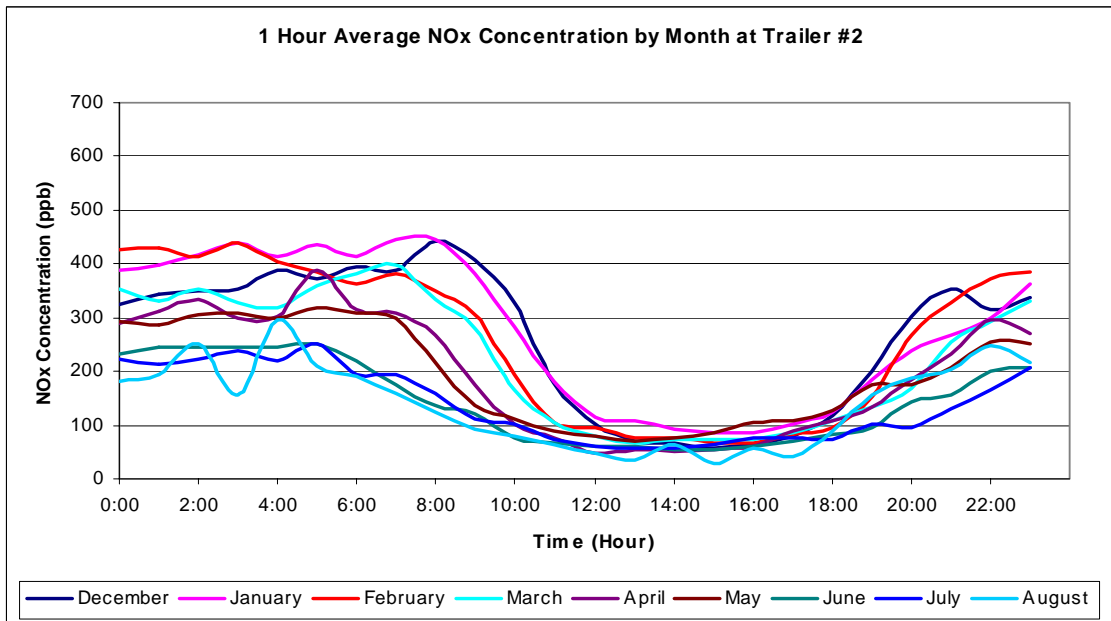
Figure 4.16 and Figure 4.17 show the mean 1-hour average trend of NO<sub>x</sub> concentrations at trailer #1 and trailer #2 for all months combined in one graph. Ambient concentrations of mean 1-hour average NO<sub>x</sub> concentration follows similar trend for all months covered by this study period at both trailers. Concentrations were high at night and early morning hours, and then decreased during late morning and afternoon hours. Mean 1-hour average NO<sub>x</sub> concentrations remained to be relatively lower until early evening hours, and then started to increase around 6 p.m. As can be seen in the figures ambient NO<sub>x</sub> concentrations reach maximum values between mid-night and 4 a.m. and minimum values around 12 noon.

### **PM<sub>2.5</sub>**

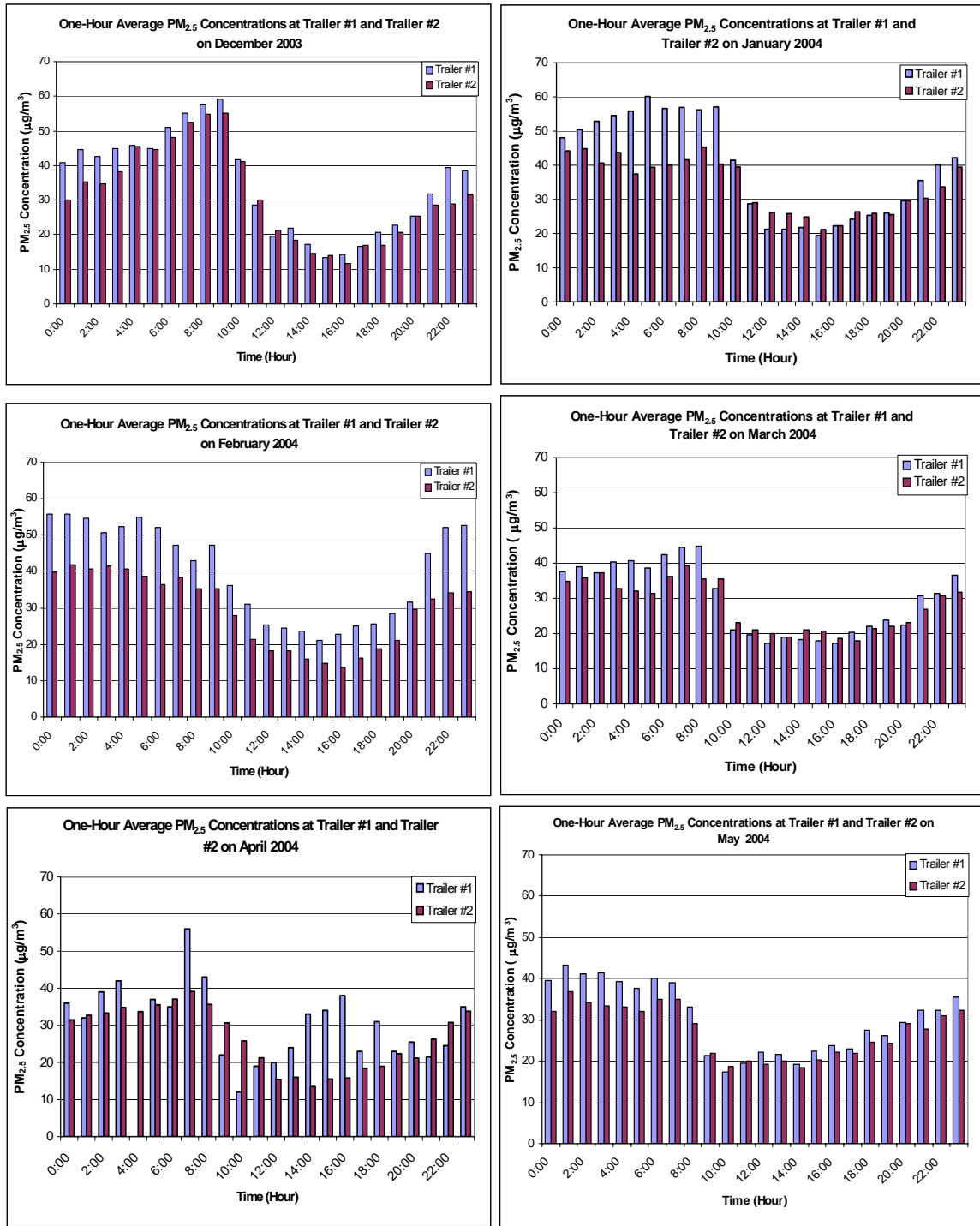
Figure 4.18 shows bar charts of mean 1-hour average PM<sub>2.5</sub> concentrations at trailer #1 and trailer #2 by hour-of-day for each month. As seen in the figure, the mean 1-hour average ambient PM<sub>2.5</sub> concentrations follow a similar trend as that of mean 1-hour average ambient NO<sub>x</sub> concentrations. Here again concentrations are in generally higher at night and lower during daytime. Figure 4.19 and Figure 4.20 also show the trend of mean 1-hour average ambient PM<sub>2.5</sub> concentrations for all months combined at trailer #1 and trailer #2. As shown in the graphs, ambient PM<sub>2.5</sub> concentrations follow similar trends at both sites.



**Figure 4.16** Mean 1-Hour Average NOx Concentrations by Hour-Of-Day at Trailer #1 for Different Months



**Figure 4.17** Mean 1-Hour Average NOx Concentrations by Hour-Of -Day at Trailer #2 for Different Months



**Figure 4.18** Mean 1-Hour Average PM<sub>2.5</sub> Concentrations by Hour-of-Day at Trailer #1 and Trailer #2 for Different Months

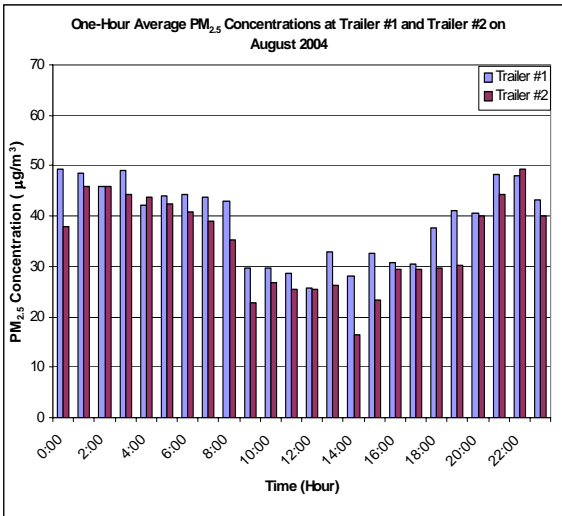
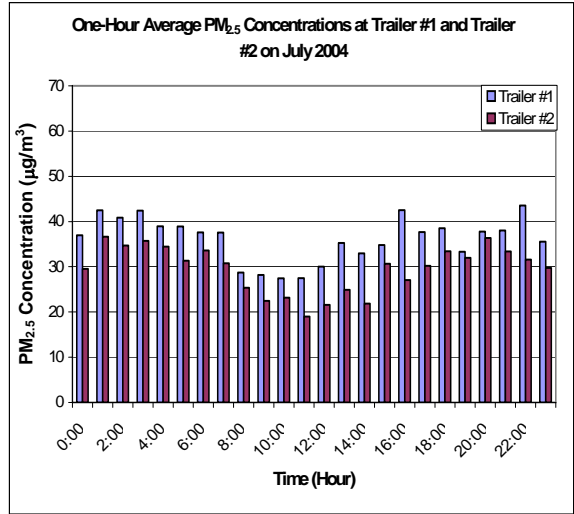
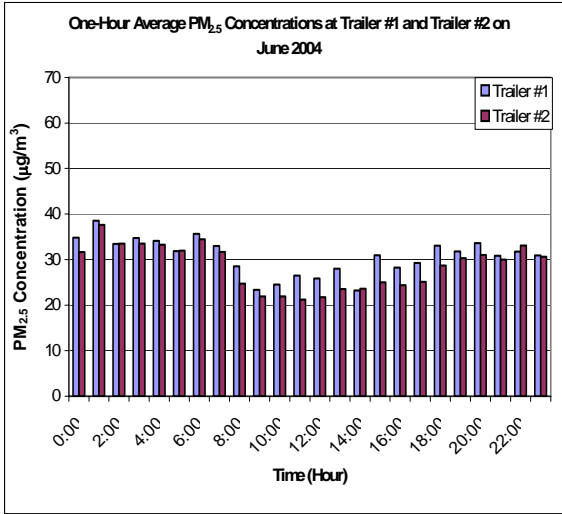
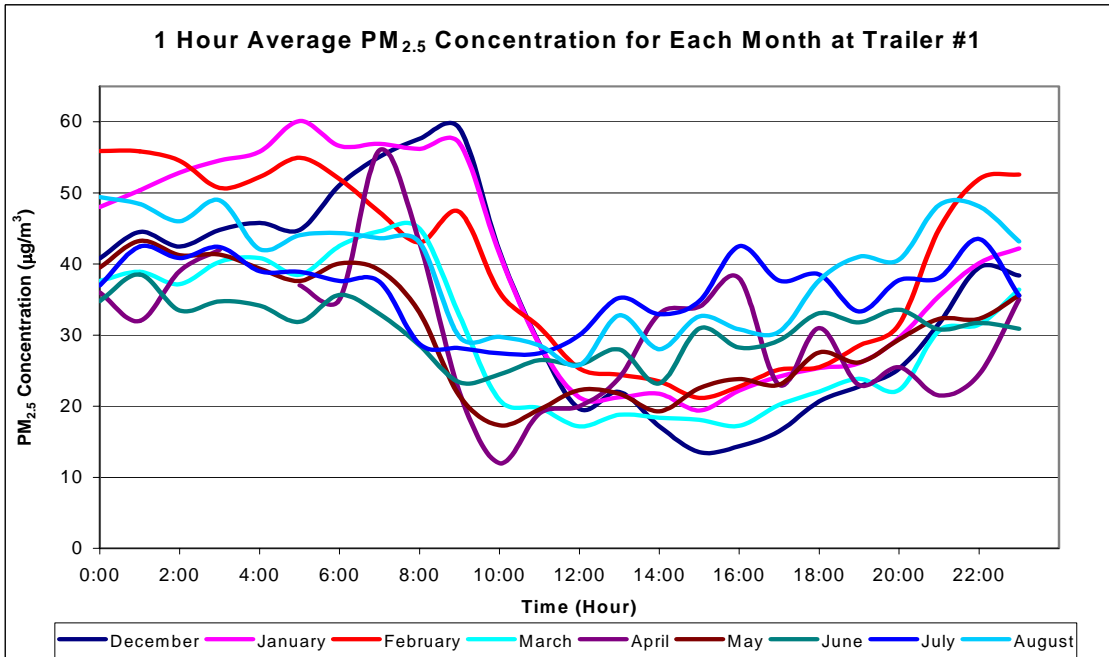
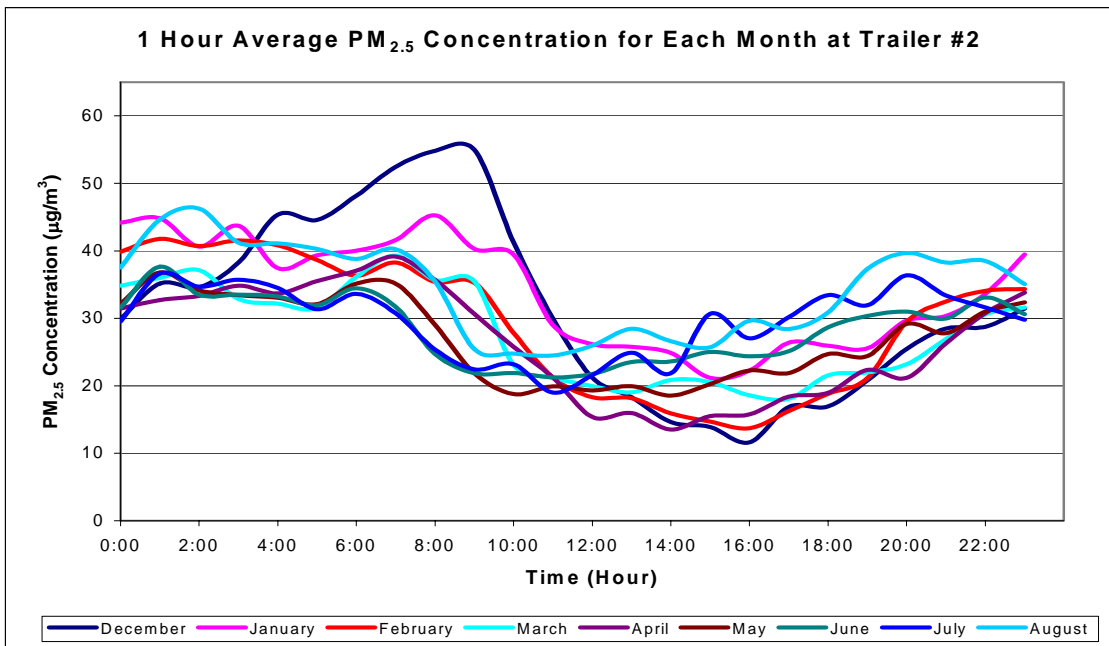


Figure 4.18 Continued





**Figure 4.19** Mean 1-Hour Average PM<sub>2.5</sub> Concentrations by Hour-of-Day at Trailer #1 for Different Months



**Figure 4.20** Mean 1-Hour Average PM<sub>2.5</sub> Concentrations by Hour-of-Day at Trailer #2 for Different Months

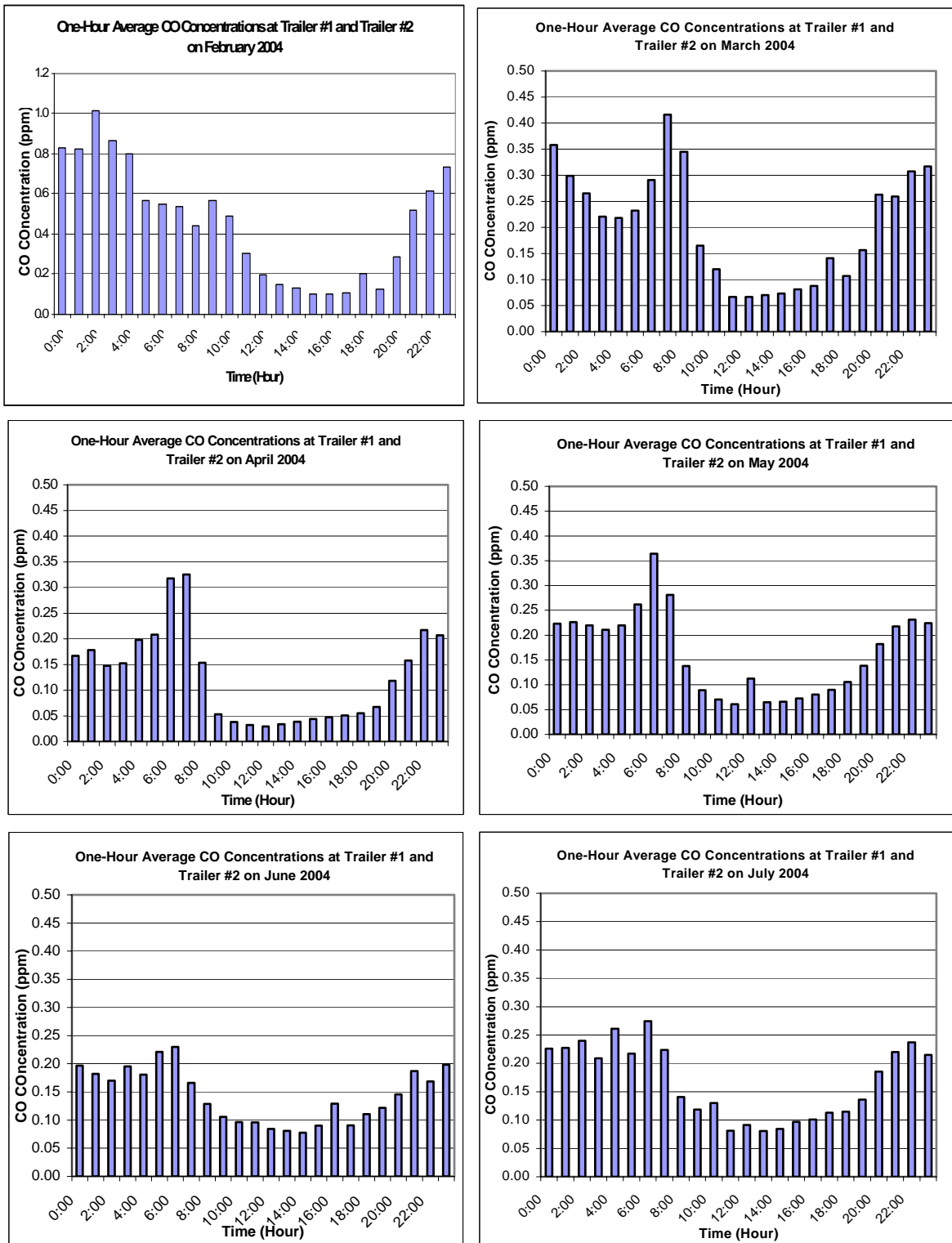
## CO

Graphs of mean 1-hour average CO ambient concentration values for each month are shown in Figure 4.21. As can be seen on the graphs, ambient CO concentrations are high during nighttime compared to daytime. With the exception of February, peak hourly averaged values occurred around 7 am and 8 a.m. This may be because many trucks leave the truck travel center during those hours with higher cold start emissions or it may be due to CO emissions from cars on I-40 during morning peak hour traffic.

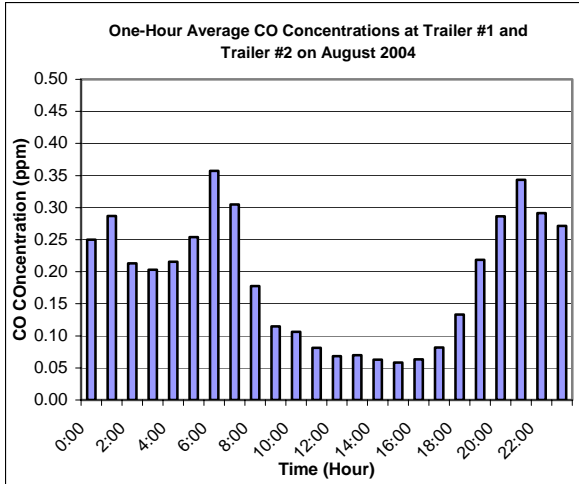
Figure 4.22 shows the mean 1-hour average CO concentrations at trailer #2 for all months on one graph. It clearly shows that mean 1-hour average concentrations in the month of February were higher than the remaining months. This could be because of higher emissions during cold weather in February. In addition the graph shows that the monitored mean 1-hour average ambient concentration of CO followed a trend of being higher at night and lower during daytime. Ambient concentrations reached minimum values around 9 a.m. and remained low until about 6 p.m.

Measured 1-hour average NO<sub>x</sub> PM<sub>2.5</sub> and CO ambient concentrations at trailer #1 and trailer #2 are shown in Appendix A-2.

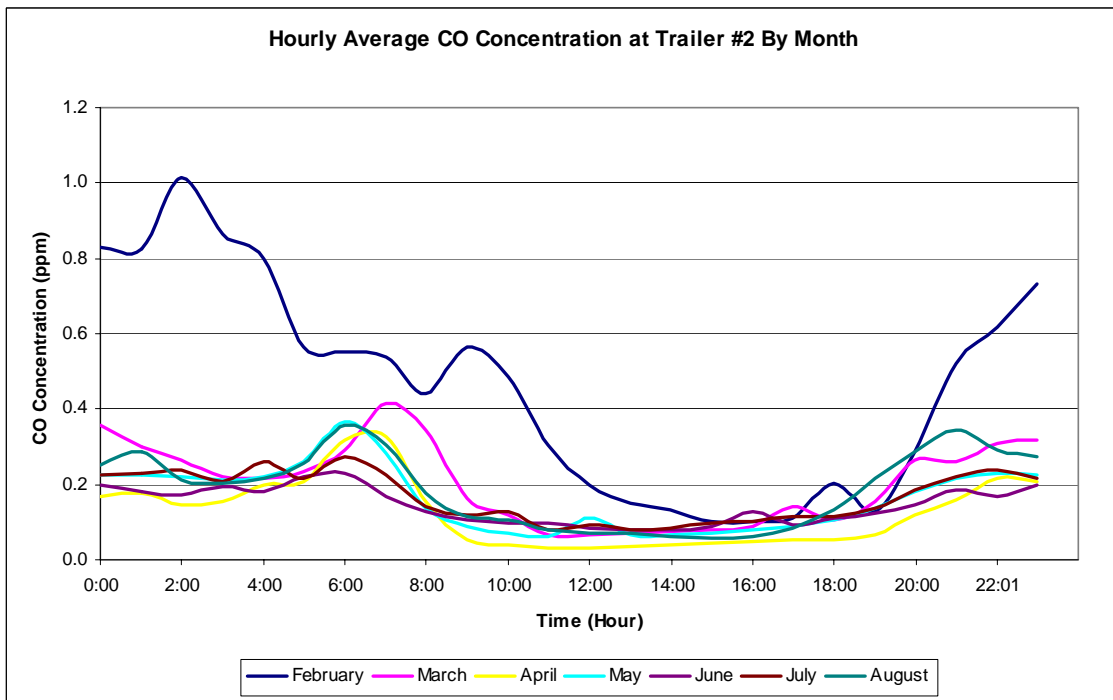
On some days when wind blew from the direction of trailer #2 towards trailer #1 for a number of hours, measured ambient concentrations of pollutants at trailer #2 were significantly lower than ambient pollutant concentrations measured at trailer #1. This is because ambient pollutant concentrations measured at trailer #2 during those hours are background pollutant concentrations with some influence from idling emissions from the truck wash area. Difference in measured ambient concentrations between trailer #1 and trailer #2 were due to trucks idling between trailer #1 and trailer #2 and possible idling trucks at the fueling island.



**Figure 4.21** Trends of Mean 1-Hour Average CO Concentrations by Hour-of-Day at Trailer #2 for Different Months



**Figure 4.21** Continued



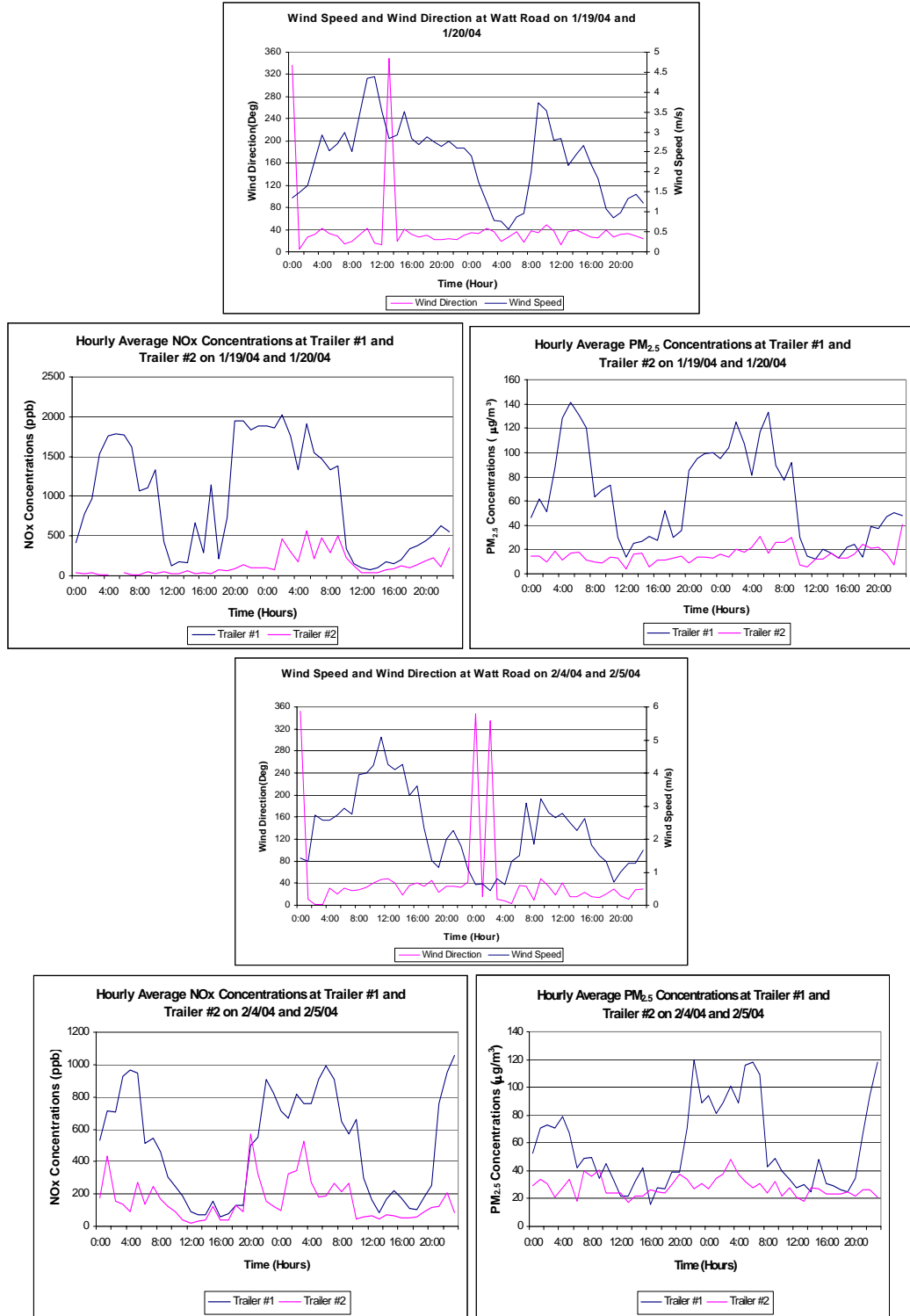
**Figure 4.22** Mean 1-Hour Average CO Concentrations by Hour-of-Day at Trailer #2 for Different Months

Days when the wind was blowing continuously for a number of hours from the direction of trailer #2 towards trailer #1 were selected and a comparison was done between measured ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> during those hours. Figure 4.23 shows plots of wind speed and wind direction and NO<sub>x</sub> and PM<sub>2.5</sub> concentrations measured at trailer #1 and trailer #2 on selected days when the wind was blowing from the direction of trailer #2 towards trailer #1. As is shown in the figure, measured concentrations of NO<sub>x</sub> at trailer #1 were significantly higher than measured concentrations at trailer #2. Similarly measured PM<sub>2.5</sub> concentrations at trailer #1 were significantly higher at trailer #1 compared to trailer #2. The difference in PM<sub>2.5</sub> concentrations at the two trailers was not as significant as measured concentrations of NO<sub>x</sub> for selected days in June, July and August. This was because of higher background PM<sub>2.5</sub> concentrations during summer months due to secondary PM<sub>2.5</sub>. As ambient background PM<sub>2.5</sub> concentration increases the fraction of measured PM<sub>2.5</sub> from idling trucks at trailer #1 decreases making measured PM<sub>2.5</sub> concentrations at the two trailers closer.

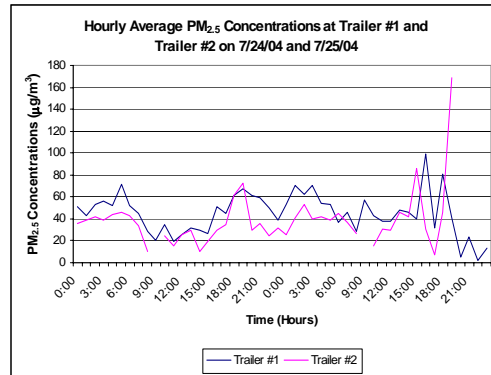
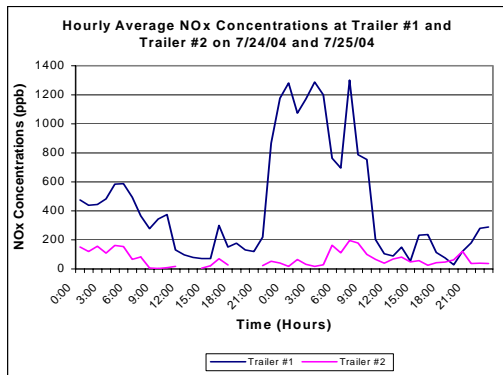
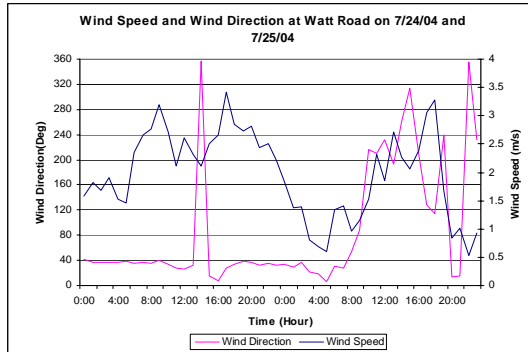
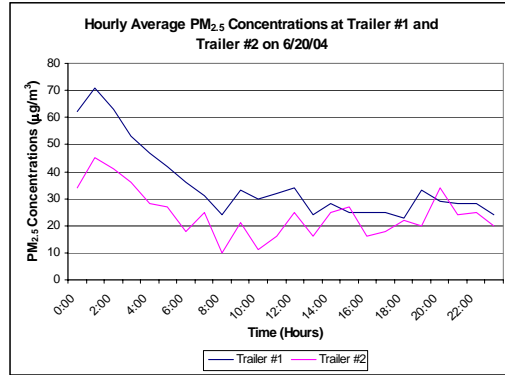
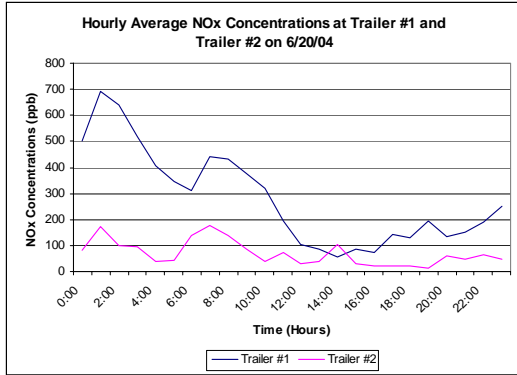
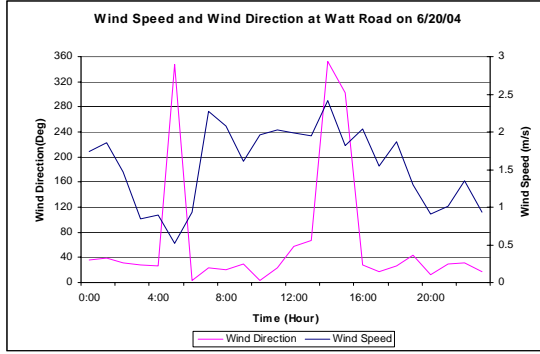
### **4.3 PM<sub>2.5</sub> Measured Near the Interstate**

Hourly PM<sub>2.5</sub> concentrations were measured at the I40/I75 and Watt Road interchange since March 2004 using a TEOM. The TEOM was located at the meteorological monitoring site north west of Petro truck travel center (Watt Road Site). It was closer to the I40/I75 interstate than the travel center. Comparison was made between the monitored PM<sub>2.5</sub> concentrations at the Petro truck travel center measured using E-BAM and PM<sub>2.5</sub> concentration measured at I40/I75 and Watt Road site using a TEOM.

Figure 4.24 shows the cumulative frequency distribution of 24-hour average PM<sub>2.5</sub> concentrations from the two E-BAMs at the Petro travel center and the TEOM at the Watt Road site. The highest 24-hour average PM<sub>2.5</sub> concentration measured by the TEOM was higher than the highest value measured at trailer #2.



**Figure 4.23** Wind Speed, Wind Direction and Measured NO<sub>x</sub> and PM<sub>2.5</sub> Concentrations at monitoring trailers for Selected Days



**Figure 4.23 Continued**

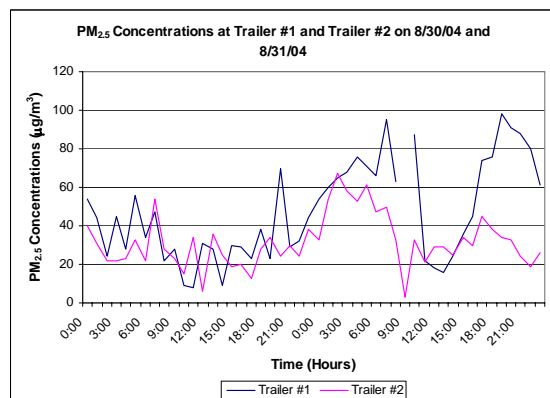
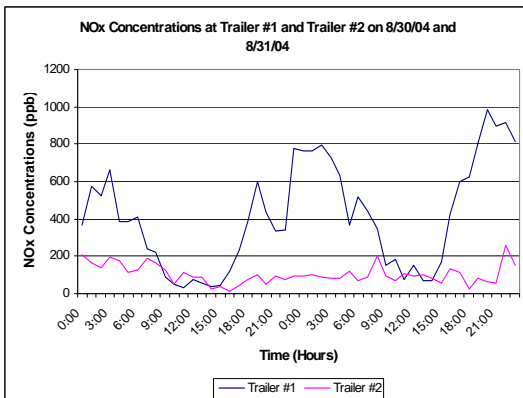
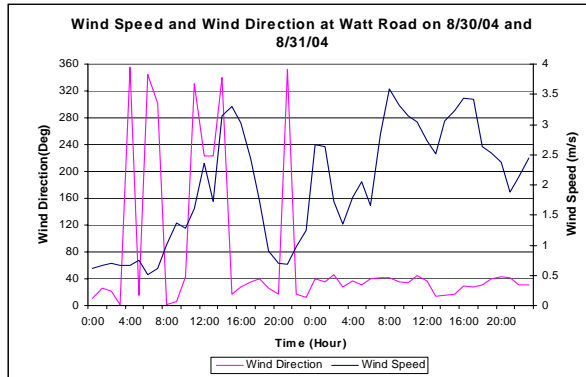
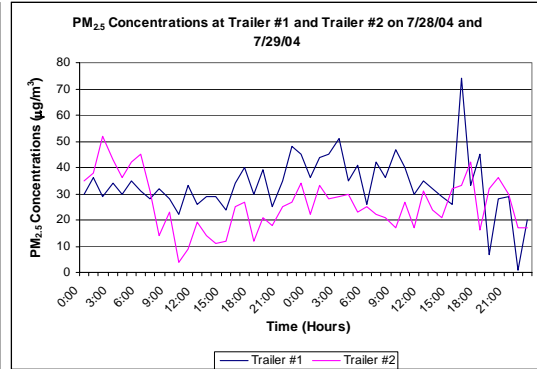
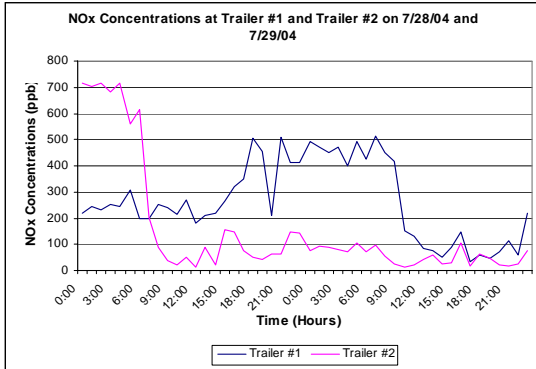
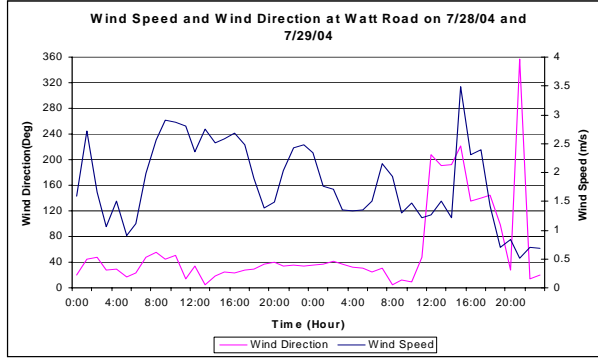
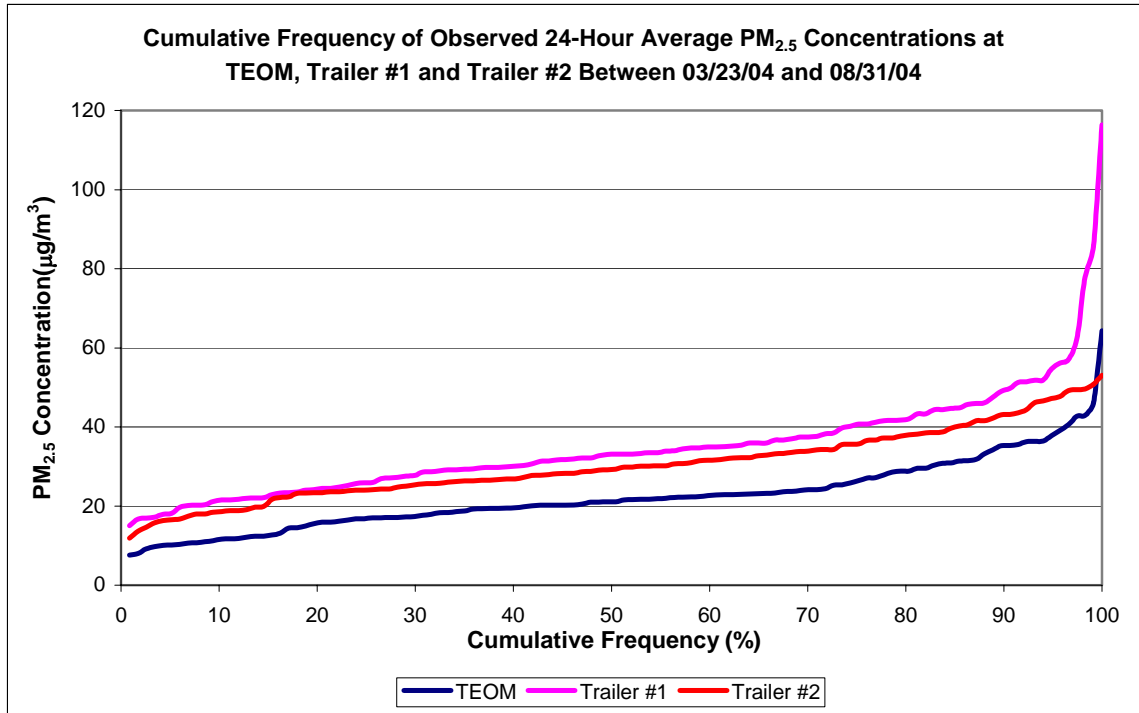


Figure 4.23 Continued





**Figure 4.24** Cumulative Frequency of 24-Hour Average PM<sub>2.5</sub> Concentrations at the Two Monitoring Trailers and at the Watt Road Site

As can be seen in the figure with the exception of one day, the  $PM_{2.5}$  concentrations at both monitoring sites inside the travel centers were higher than the concentrations recorded with the TEOM at Watt Road site. This indicates that ambient concentrations of  $PM_{2.5}$  were higher at the truck travel center than anywhere in the area. Since the TEOM was located closer to the interstate than the travel center it gets more ambient  $PM_{2.5}$  contribution from emissions on the interstate. The 50 percent cumulative frequency corresponds to the 24-hour average  $PM_{2.5}$  concentration of  $21 \mu\text{g}/\text{m}^3$  at the Watt Road site versus  $29 \mu\text{g}/\text{m}^3$  and  $33 \mu\text{g}/\text{m}^3$  at trailer #2 and trailer #1, respectively. This shows that the concentrations of  $PM_{2.5}$  at the truck travel center were greater than concentrations at the Watt Road site by an average value of  $10 \mu\text{g}/\text{m}^3$ . Despite its closeness to the interstate,  $PM_{2.5}$  concentrations at the Watt Road site were lower than  $PM_{2.5}$  concentrations at the truck travel center. This shows that idling emissions from trucks have a significant contribution to ambient  $PM_{2.5}$  concentration.

The Oak Ridge National Laboratory conducted sampling in the study area over a two-week period in February, and in late July-early August 2004. The study was conducted to measure the elemental and organic carbon content of particulate matter sampled at two locations. The sampling was conducted at two sites, one located inside the Petro truck travel center (at trailer #1) and the other located at the meteorological monitoring site at I-40 and Watt Road, northwest of the Petro travel center. There was a TEOM measuring total  $PM_{2.5}$  at the I-40 and Watt Road sampling site.

Two dichotomus samplers were used to collect PM samples twice a day for the determination of elemental and organic carbon contents. Ambient total  $PM_{2.5}$  concentration was not measured during this study by ORNL. The results are shown in Table 4.1, Table 4.2 and Table 4.3. Total  $PM_{2.5}$  measurements shown in the tables were measured using an E-BAM inside trailer #1 at the travel center and using a TEOM at I-40 and Watt Road site.

**Table 4.1** Measured Organic Carbon, Elemental Carbon, Total Carbon (ORNL) and Total PM<sub>2.5</sub> Concentrations besides Trailer #1 between 2/12/04 and 2/24/04

<b>Time</b>	<b>OC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>EC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>E-BAM Total PM<sub>2.5</sub>(<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC/TPM</b>	<b>OC/TC</b>	<b>EC/TC</b>
2/12/04 7:00 PM	27.6	4.7	32.3	42.6	75.9%	85.5%	14.5%
2/13/04 7:00 PM	30.6	5.0	35.6	47.3	75.3%	86.0%	14.0%
2/14/04 7:00 AM	21.1	2.3	23.4	36.2	64.6%	90.2%	9.8%
2/14/04 7:00 PM	26.0	5.1	31.1			83.6%	16.4%
2/15/04 7:00 AM	20.0	2.4	22.4			89.3%	10.7%
2/15/04 7:00 PM	16.4	2.5	18.9	35.1	54.0%	86.7%	13.3%
2/16/04 7:00 AM	14.3	1.7	16.0	85.2	18.8%	89.6%	10.4%
2/16/04 7:00 PM	16.1	1.8	17.9	92.5	19.3%	90.0%	10.0%
2/17/04 7:00 AM	8.0	1.0	9.0	38.6	23.3%	88.8%	11.2%
2/17/04 7:00 PM	30.6	4.1	34.8	54.6	63.7%	88.1%	11.9%
2/18/04 7:00 AM	17.0	1.7	18.7	33.0	56.8%	90.7%	9.3%
2/18/04 7:00 PM	61.4	7.5	69.0	80.9	85.2%	89.1%	10.9%
2/19/04 7:00 AM	28.4	3.6	32.0	57.5	55.6%	88.8%	11.2%
2/19/04 7:00 PM	11.8	1.0	12.8	67.1	19.0%	92.4%	7.6%
2/20/04 7:00 AM	44.1	11.3	55.4	19.1	290.5%	79.6%	20.4%
2/20/04 7:00 PM	15.5	1.7	17.2	29.7	57.9%	90.2%	9.8%
2/21/04 7:00 AM	15.3	1.3	16.6	23.3	71.4%	92.0%	8.0%
2/21/04 7:00 PM	16.4	2.8	19.2	39.3	48.8%	85.4%	14.6%
2/22/04 7:00 AM	25.9	3.2	29.1	25.8	112.9%	89.1%	10.9%
2/22/04 7:00 PM	18.1	2.3	20.4	49.4	41.4%	88.7%	11.3%
2/23/04 7:00 AM	35.1	5.7	40.8	31.9	127.9%	86.0%	14.0%
2/24/04 7:00 AM	19.5	5.2	24.7	35.6	69.5%	79.0%	21.0%
<b>Average</b>	<b>23.6</b>	<b>3.5</b>	<b>27.1</b>	<b>46.2</b>	<b>58.7%</b>	<b>87.0%</b>	<b>13.0%</b>

**Table 4.2** Measured Organic Carbon, Elemental Carbon, Total Carbon (ORNL) and Total PM<sub>2.5</sub> Concentrations besides Trailer #1 between 7/26/04 and 8/6/04

<b>Time</b>	<b>OC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>EC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>E-BAM Total PM<sub>2.5</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC/TPM</b>	<b>OC/TC</b>	<b>EC/TC</b>
7/26/04 7:00 PM	11.3	1.0	12.3	22.0	55.8%	92.1%	7.9%
7/27/04 7:00 AM	9.7	0.9	10.6	19.7	53.7%	91.6%	8.4%
7/28/04 7:00 AM	18.3	1.3	19.6	29.6	66.1%	93.3%	6.7%
7/28/04 7:00 PM	18.0	1.3	19.3	39.2	49.2%	93.2%	6.8%
7/29/04 7:00 AM	12.9	1.1	14.0	39.1	35.8%	92.4%	7.6%
7/29/04 7:00 PM	13.7	1.1	14.8	26.3	56.4%	92.7%	7.3%
7/30/04 10:00 AM	12.6	1.2	13.7	26.6	51.6%	91.5%	8.5%
7/30/04 7:00 PM	11.5	1.0	12.5	14.1	88.7%	92.1%	7.9%
7/31/04 7:00 AM	12.9	1.1	13.9	19.8	70.3%	92.4%	7.6%
7/31/04 7:00 PM	17.2	1.3	18.5	30.9	59.7%	93.1%	6.9%
8/1/04 7:00 AM	13.9	1.1	15.0	27.1	55.5%	92.6%	7.4%
8/1/04 7:00 PM	35.8	2.2	38.0	63.0	60.3%	94.2%	5.8%
8/2/04 7:00 AM	16.2	1.2	17.5	33.3	52.5%	93.1%	6.9%
8/2/04 7:00 PM	22.6	1.5	24.2	51.8	46.6%	93.7%	6.3%
8/3/04 7:00 AM	15.9	1.2	17.1	50.3	34.0%	93.0%	7.0%
8/3/04 7:00 PM	16.8	1.2	18.0	68.8	26.2%	93.1%	6.9%
8/4/04 7:00 AM	18.2	1.3	19.6	44.1	44.4%	93.3%	6.7%
8/4/04 7:00 PM	19.7	1.4	21.1	39.1	54.1%	93.4%	6.6%
8/5/04 7:00 AM	15.1	1.2	16.3	27.0	60.4%	92.8%	7.2%
8/5/04 7:00 PM	14.2	1.1	15.3	31.9	47.9%	92.8%	7.2%
8/6/04 7:00 AM	9.7	0.9	10.5	14.3	73.6%	91.6%	8.4%
<b>Average</b>	<b>16.0</b>	<b>1.2</b>	<b>17.2</b>	<b>34.2</b>	<b>50.4%</b>	<b>93.0%</b>	<b>7.0%</b>

**Table 4.3** Measured Organic Carbon, Elemental Carbon, Total Carbon (ORNL) and Total PM<sub>2.5</sub> Concentrations At the Side of Watt Road between 7/26/04 and 8/6/04

<b>Time</b>	<b>OC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>EC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TEOM Total PM<sub>2.5</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>TC/TPM</b>	<b>OC/TC</b>	<b>EC/TC</b>
7/26/04 7:00 PM	5.4	0.5	5.9	13.9	42.5%	91.2%	8.8%
7/27/04 7:00 AM	5.9	0.5	6.5	20.2	32.0%	91.6%	8.4%
7/27/04 7:00 PM	6.7	0.6	7.3	20.2	36.2%	91.9%	8.1%
7/28/04 7:00 AM	7.0	0.6	7.6	21.5	35.3%	92.2%	7.8%
7/28/04 7:00 PM	9.1	0.7	9.8	26.1	37.4%	92.8%	7.2%
7/29/04 7:00 AM	8.3	0.7	8.9	21.6	41.3%	92.6%	7.4%
7/29/04 7:00 PM	7.8	0.6	8.5	14.4	58.6%	92.4%	7.6%
7/30/04 7:00 AM	5.9	0.5	6.4	9.5	67.8%	91.5%	8.5%
7/30/04 7:00 PM	4.8	0.5	5.3	12.7	42.1%	90.8%	9.2%
7/31/04 7:00 PM	9.2	0.7	9.9	16.2	61.1%	92.9%	7.1%
8/1/04 7:00 AM	7.7	0.6	8.3	24.0	34.6%	92.3%	7.7%
8/1/04 7:00 PM	9.4	0.7	10.2	25.9	39.2%	92.9%	7.1%
8/2/04 7:00 AM	7.9	0.6	8.5	32.7	26.0%	92.5%	7.5%
8/2/04 7:00 PM	10.2	0.8	10.9	44.1	24.8%	93.1%	6.9%
8/3/04 7:00 AM	9.1	0.7	9.8	43.1	22.8%	92.8%	7.2%
8/3/04 7:00 PM	11.9	0.8	12.8	36.7	34.9%	93.4%	6.6%
8/4/04 7:00 AM	12.0	0.9	12.8	31.2	41.1%	93.2%	6.8%
8/4/04 7:00 PM	11.2	0.8	12.0	22.7	53.0%	93.4%	6.6%
<b>Average</b>	<b>8.3</b>	<b>0.7</b>	<b>9.0</b>	<b>24.3</b>	<b>37.0%</b>	<b>92.6%</b>	<b>7.4%</b>

As is shown in Table 4.1 during the wintertime sampling period, average total carbon and total PM<sub>2.5</sub> concentrations in the ambient air were 27.2 µg/m<sup>3</sup> and 46.2 µg/m<sup>3</sup> respectively inside the travel center. Total carbon accounted for about 59 percent of the total PM<sub>2.5</sub> inside the travel center. Organic and elemental carbon accounted for 87 percent and 13 percent of the total carbon during the same sampling time. Table 4.2 and Table 4.3 show results of summer time measurements. During the summer time sampling period the average total PM<sub>2.5</sub> concentrations were 34.2 µg/m<sup>3</sup> and 24.3 µg/m<sup>3</sup> at the travel center and at the Watt Road site, respectively. Average total carbon concentrations were 17.2µg/m<sup>3</sup> at the travel center and 9.0 µg/m<sup>3</sup> at the Watt Road site. Total carbon accounted for 50.4 percent of total PM<sub>2.5</sub> at the travel center and 37 percent at the Watt Road site. Total carbon accounted for an average of 23 percent of total PM<sub>2.5</sub> at the Look Rock in 1999 (Doraiswamy 2004). This shows that the total carbon portion of PM<sub>2.5</sub> is higher at the study area compared to Look Rock. This could be because of higher truck idling emissions (which are largely carbon) at the study area compared to Look Rock. During the summer sampling period, average organic carbon and elemental carbon accounted for 93 and 7 percent of the total carbon. As the tables show, ambient total PM<sub>2.5</sub> and ambient total carbon concentrations were higher in winter compared to summertime. Comparison of measured concentrations at the travel center with concentrations measured at the Watt Road site shows that both total PM<sub>2.5</sub> and total carbon concentrations were higher at the travel center than near the interstate. This indicated that idling of trucks had a significant contribution to the ambient PM<sub>2.5</sub> concentrations measured at the travel center.

Comparisons were also made between ratios of monthly average pollutants concentration in the ambient air and the respective ratios of idling emission factors for truck exhaust. The results are shown in Table 4.4 . Idling emission factors of 135 g/hr of NO<sub>x</sub>, 3.68 g/hr of PM<sub>2.5</sub> (EPA, 2004) and 75 g/hr of CO were used to calculate the ratios.

**Table 4.4** Ratios of Emission Factors and Measured Values for Monthly Means

Months	Trailer #1		Trailer #2			Measured Ratios			Emission Ratios	
	NOx	PM <sub>2.5</sub>	NOx	PM <sub>2.5</sub>	CO	Trailer #1	Trailer #2			
	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppb)	NOx:PM <sub>2.5</sub>	NOx:PM <sub>2.5</sub>	NOx:CO	NOx:PM <sub>2.5</sub>	NOx:CO
<b>Dec-03</b>	540	34.8	495	31.5		15.5 : 1	15.7 : 1		36.7 : 1	1.8 : 1
<b>Jan-04</b>	737	39.4	524	34.0		18.7 : 1	15.4 : 1		36.7 : 1	1.8 : 1
<b>Feb-04</b>	717	39.9	489	29.4	0.4	18.0 : 1	16.6 : 1	0.6 : 1	36.7 : 1	1.8 : 1
<b>Mar-04</b>	556	29.8	427	27.9	0.2	18.7 : 1	15.3 : 1	1.1 : 1	36.7 : 1	1.8 : 1
<b>Apr-04</b>	489	29.8	376	26.6	0.1	16.4 : 1	14.1 : 1	1.6 : 1	36.7 : 1	1.8 : 1
<b>May-04</b>	411	30.4	367	27.2	0.2	13.5 : 1	13.5 : 1	1.2 : 1	36.7 : 1	1.8 : 1
<b>Jun-04</b>	381	30.7	277	28.6	0.1	12.4 : 1	9.7 : 1	1.0 : 1	36.7 : 1	1.8 : 1
<b>Jul-04</b>	395	36.2	266	29.7	0.2	10.9 : 1	9.0 : 1	0.9 : 1	36.7 : 1	1.8 : 1
<b>Aug-04</b>	401	37.9	276	35.0	0.2	10.6 : 1	7.9 : 1	0.9 : 1	36.7 : 1	1.8 : 1
<b>Average</b>	<b>514</b>	<b>34</b>	<b>389</b>	<b>30</b>	<b>0.20</b>	<b>15.1 : 1</b>	<b>13.0 : 1</b>	<b>1.0 : 1</b>	<b>36.7 : 1</b>	<b>1.8 : 1</b>

As is shown in the table, the idling emission factor for NOx is about two times the idling emission factor of CO; while the average measured ambient concentration of NOx was equal to the ambient concentration of CO. The idling emission factor for NOx is about 37 times the idling emission factor for PM<sub>2.5</sub>, while the average measured ambient concentration of NOx was only about 8 times the ambient concentration of PM<sub>2.5</sub>. This indicates that measured PM<sub>2.5</sub> concentrations were much higher than expected had all emissions been only from idling trucks. Apparently background PM<sub>2.5</sub> concentrations in the area account for a significant portion of total PM<sub>2.5</sub> monitored at the Petro truck travel center. For this reason monitored PM<sub>2.5</sub> values were adjusted for background concentration before comparisons were made between cumulative frequencies of monitored and predicted values. The adjustment was done by subtracting the regional 24-hour average PM<sub>2.5</sub> concentrations monitored at Look Rock and local PM<sub>2.5</sub> concentrations measured using a TEOM located at the I-40 / Watt Road interchange from the total 24-hour average PM<sub>2.5</sub> concentrations measured at the two monitoring stations inside the Petro truck travel center. New ratios of adjusted measured concentrations were calculated and are shown in Table 4.5 and Table 4.6.

**Table 4.5** Ratios of Measured (PM<sub>2.5</sub> Corrected With TEOM Data from Watt Road Site) Versus Emission Factors for Monthly Means

Months	Trailer #1		Trailer #2			Measured Ratios		
	NOx	PM <sub>2.5</sub>	NOx	PM <sub>2.5</sub>	CO	Trailer #1	Trailer #2	
	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppb)	NOx: PM <sub>2.5</sub>	NOx: PM <sub>2.5</sub>	NOx:CO
<b>Mar-04</b>	556	10.1	427	8.2	0.2	55.0 : 1	52.1 : 1	1.1 : 1
<b>Apr-04</b>	489	10.6	376	7.4	0.1	46.1 : 1	50.8 : 1	1.6 : 1
<b>May-04</b>	411	11.7	367	8.5	0.2	35.1 : 1	43.2 : 1	1.2 : 1
<b>Jun-04</b>	381	5.2	277	3.1	0.1	73.3 : 1	89.4 : 1	1.0 : 1
<b>Jul-04</b>	395	14.6	266	8.1	0.2	27.1 : 1	32.8 : 1	0.9 : 1
<b>Aug-04</b>	401	9.7	276	6.8	0.2	41.3 : 1	40.6 : 1	0.9 : 1
<b>Average</b>	<b>439</b>	<b>10</b>	<b>332</b>	<b>7</b>	<b>0.17</b>	<b>43.9 : 1</b>	<b>47.4 : 1</b>	<b>1.2 : 1</b>

**Table 4.6** Ratios of Measured (PM<sub>2.5</sub> Corrected with Look Rock Data) Versus Emission Factor for Monthly Means

Months	Trailer #1		Trailer #2			Measured Ratios		
	NOx	PM <sub>2.5</sub>	NOx	PM <sub>2.5</sub>	CO	Trailer #1	Trailer #2	
	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(ppb)	NOx: PM <sub>2.5</sub>	NOx: PM <sub>2.5</sub>	NOx:CO
<b>Dec-03</b>	540	28.4	495	25.1		19.0 : 1	19.7 : 1	
<b>Jan-04</b>	737	31.2	524	25.8		23.6 : 1	20.3 : 1	
<b>Feb-04</b>	717	30.7	489	20.2	0.4	23.4 : 1	24.2 : 1	0.6 : 1
<b>Mar-04</b>	556	19.3	427	17.4	0.2	28.8 : 1	24.5 : 1	1.1 : 1
<b>Apr-04</b>	489	17.7	376	14.5	0.1	27.6 : 1	25.9 : 1	1.6 : 1
<b>May-04</b>	411	15.0	367	11.8	0.2	27.4 : 1	31.1 : 1	1.2 : 1
<b>Jun-04</b>	381	11.7	277	9.6	0.1	32.6 : 1	28.9 : 1	1.0 : 1
<b>Jul-04</b>	395	17.9	266	11.4	0.2	22.1 : 1	23.3 : 1	0.9 : 1
<b>Aug-04</b>	401	14.9	276	12	0.2	26.9 : 1	23.0 : 1	0.9 : 1
<b>Average</b>	<b>514</b>	<b>21</b>	<b>389</b>	<b>16</b>	<b>0.20</b>	<b>24.5 : 1</b>	<b>24.3 : 1</b>	<b>1.0 : 1</b>



The average concentration of PM<sub>2.5</sub> measured at the TEOM site was higher than the average concentration measured at Look Rock. As a result, the NO<sub>x</sub> to adjusted PM<sub>2.5</sub> values ranged from 24.5 to 24.3 when adjusted for Look Rock data and 43.9 to 47.4 when adjusted for the local TEOM measurements. The theoretical ratio based on truck idling emission factors is 36.7 which falls between those two results. This suggests that the Look Rock adjustment may be too low while the TEOM adjustment is too high. To be conservative, the Look Rock PM<sub>2.5</sub> values were used to “adjust” for background PM<sub>2.5</sub> for use in the modeling analysis. The average monthly PM<sub>2.5</sub> concentrations measured at I-40 / Watt Road interchange and Look Rock are shown in Table 4.7. The TEOM at I-40/Watt Road interchange started collecting ambient PM<sub>2.5</sub> concentrations in March 2004 so monthly average values are available only for a portion of the study period. Coefficients of correlation were calculated between PM<sub>2.5</sub> concentrations readings at trailer #1 and TEOM, trailer #2 and TEOM and trailer #1 and trailer#2. Correlation coefficient, R-values of 0.52 between trailer#1 and TEOM, 0.67 between trailer #2 and TEOM and 0.64 between trailer#1 and trailer #2 were obtained. These values show that there is some level of linear relationship between trailer #1 and TEOM, trailer#2 and TEOM and trailer #1 and trailer#2.

## **4.4 Modeling Results**

### **4.4.1 Evaluation of Model Performance**

Dispersion of pollution is a process by which pollutants are mixed or diluted and transported in the atmosphere. Model performance was done using direct comparison of model prediction with observations. Uncertainties in observation and model prediction arise from different sources. Uncertainty in observation could be due to random turbulence in the atmosphere and instrument errors, while uncertainties in model prediction could be due to input data and model physical performance.

**Table 4.7** Monthly Average PM<sub>2.5</sub> Concentrations at Look Rock and I-40 / Watt Road Interchange

Months	Monthly Average Measured PM <sub>2.5</sub>	
	Look Rock	TEOM
	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
<b>Dec-03</b>	6.4	
<b>Jan-04</b>	8.2	
<b>Feb-04</b>	9.2	
<b>Mar-04</b>	10.5	19.7
<b>Apr-04</b>	12.1	19.2
<b>May-04</b>	15.4	18.7
<b>Jun-04</b>	19.0	25.5
<b>Jul-04</b>	18.3	21.6
<b>Aug-04</b>	23.0	28.2
<b>Average</b>	<b>13.3</b>	<b>21.8</b>

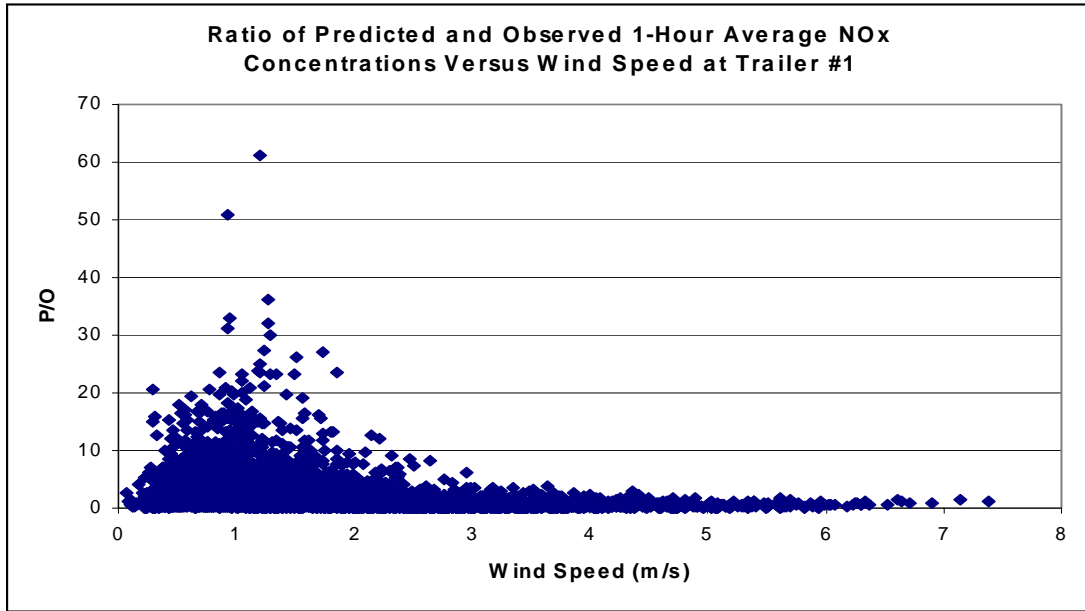
There are a number of uncertainties in the model input data including uncertainties in wind speed, wind direction and number of idling trucks at a particular day and time. Measurement of ambient pollutant concentrations can be influenced by a truck idling right next to the monitoring trailers, an instrument not functioning properly at a particular time and other factors.

The performance of the ISCST3 model in the prediction of NO<sub>x</sub> and PM<sub>2.5</sub> concentrations at the Watt Road area was determined by comparing predicted and monitored values of NO<sub>x</sub> and PM<sub>2.5</sub> concentrations at the two monitoring trailers installed inside the travel center. The ISC model was run to predict 1-hour average NO<sub>x</sub> concentrations at the two trailers. The predicted values were then compared to measured values by determining the ratios of predicted to measured values. The calculated ratio was then analyzed to see any trend in the over-prediction and/or under-prediction of the model. The ratio of predicted over measured concentrations at the two trailers were evaluated against wind speed, wind direction and time of the day. Plots of ratios of predicted over measured concentrations

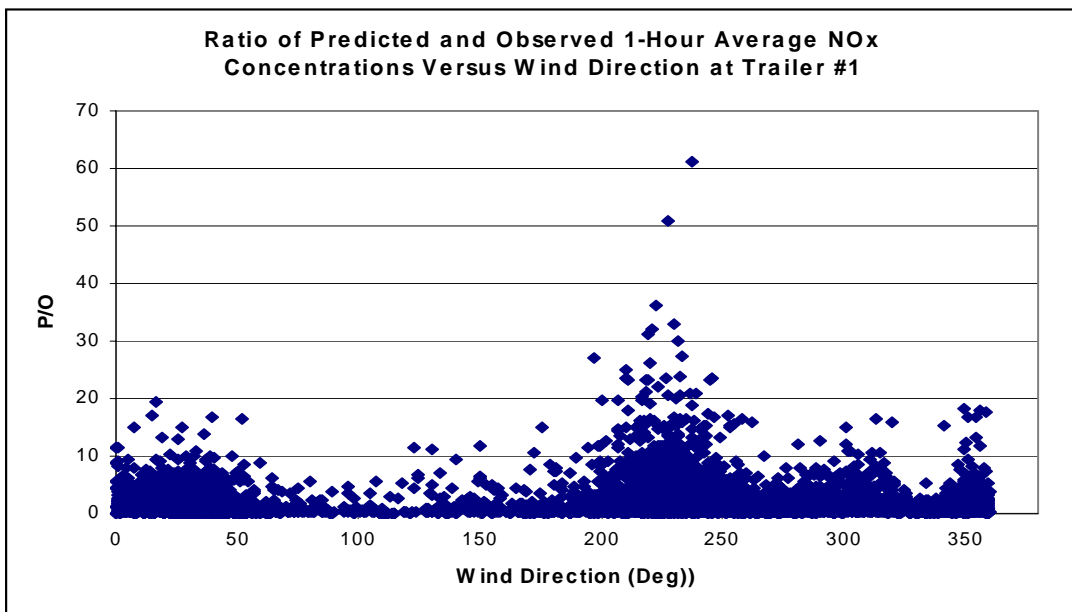
versus wind speed are shown in Figure 4.25 and Figure 4.28. The plots show that the model over-predicted 1-hour average NO<sub>x</sub> concentrations at lower wind speed values at both trailers.

Most of the time those larger over-predictions occur when wind blows from Southwest and Northeast directions as shown in Figure 4.26 and Figure 4.29. Plots of ratios of predicted over measured 1-hour NO<sub>x</sub> concentrations versus time of the day are shown in Figure 4.27 and Figure 4.30. The results indicate that the model over-predicts NO<sub>x</sub> concentrations more between late evening and early morning hours compared to day times. Figure 4.31 shows the trend of wind speed by hour of the day. It can be seen that wind speed was higher during daytime compared to night and early morning hours. Based on Figure 4.25 - Figure 4.31 it can be concluded that the model did not predict 1-hour average NO<sub>x</sub> concentrations well for hours with low wind speed values. There are close to 6000 hours of wind speeds, wind directions and P/O values in Figure 4.25 to Figure 4.31. Figure 4.32 shows average hourly wind speed by time of the day. As is shown in the figure average hourly wind speeds are relatively higher during day time compared to early morning and night times.

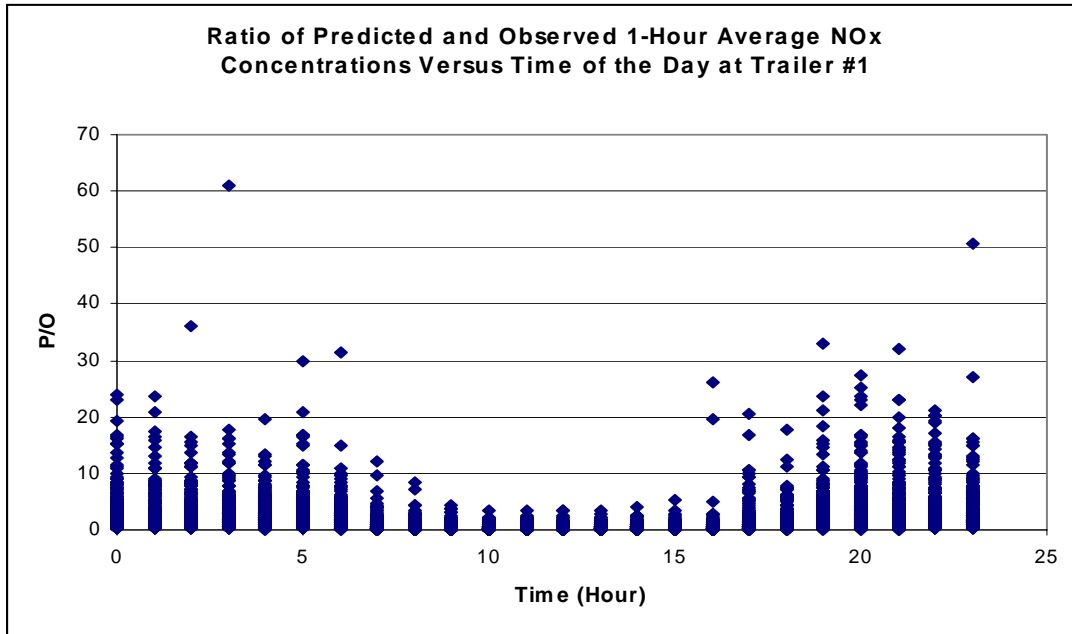
The performance of the ISCST3 model was evaluated by using a direct comparison of observed and predicted 24-hour average NO<sub>x</sub> concentrations. Scatter plot diagrams of measured and predicted 24-hour average NO<sub>x</sub> concentrations at trailer #1 and trailer #2 are shown in Figure 4.33 and Figure 4.34. Visual inspection of the scatter plots reveals that the model over-predicts most of the 24-hour NO<sub>x</sub> concentrations at both trailers. The pink line on the scatter plot diagrams is a 45-degree line. This line represents an ideal match of modeled and measured values. As can be seen on the figures most of the points lie above the 45 degree line showing that the model over-predicted the 24-hour average NO<sub>x</sub> concentrations at the two monitoring trailers.



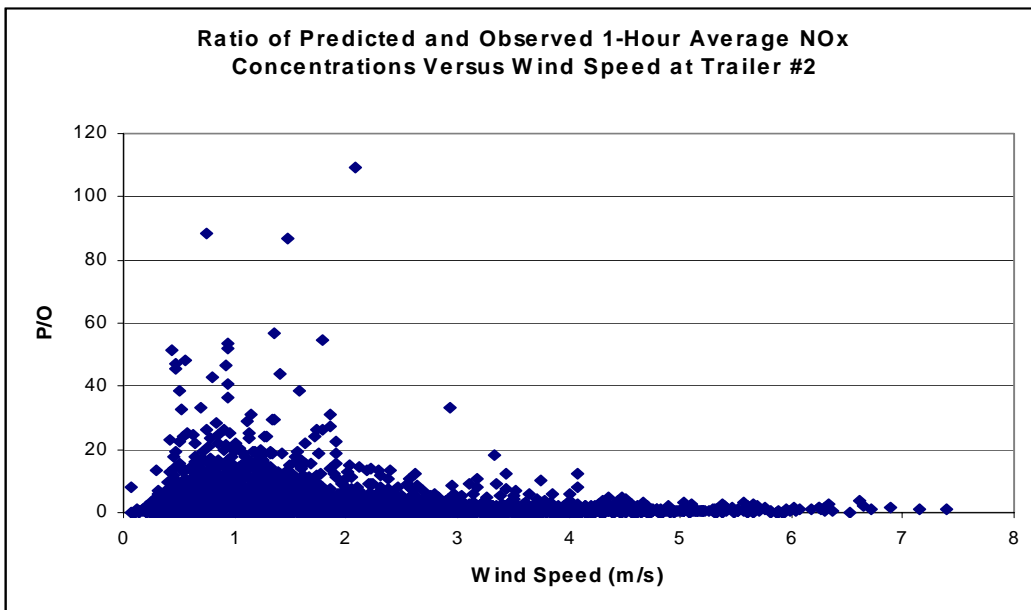
**Figure 4.25** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Wind Speed at Trailer #1



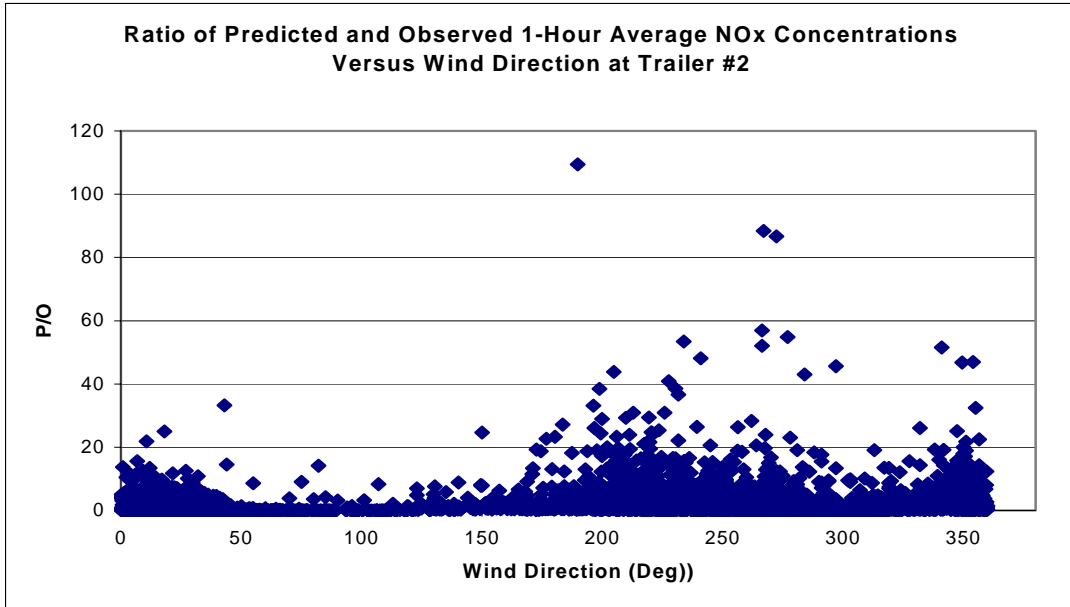
**Figure 4.26** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Wind Direction at Trailer #1



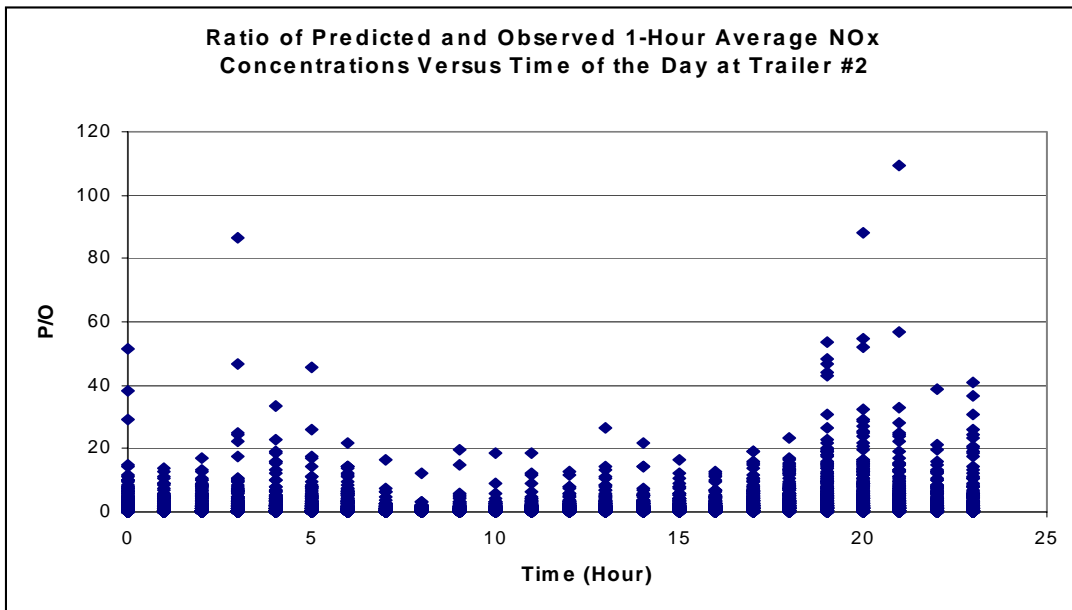
**Figure 4.27** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Time of The Day at Trailer #1



**Figure 4.28** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Wind Speed at Trailer #2



**Figure 4.29** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Wind Direction at Trailer #2



**Figure 4.30** Ratio of Predicted and Observed 1-Hour Average NO<sub>x</sub> Concentrations Versus Time of The Day at Trailer #2

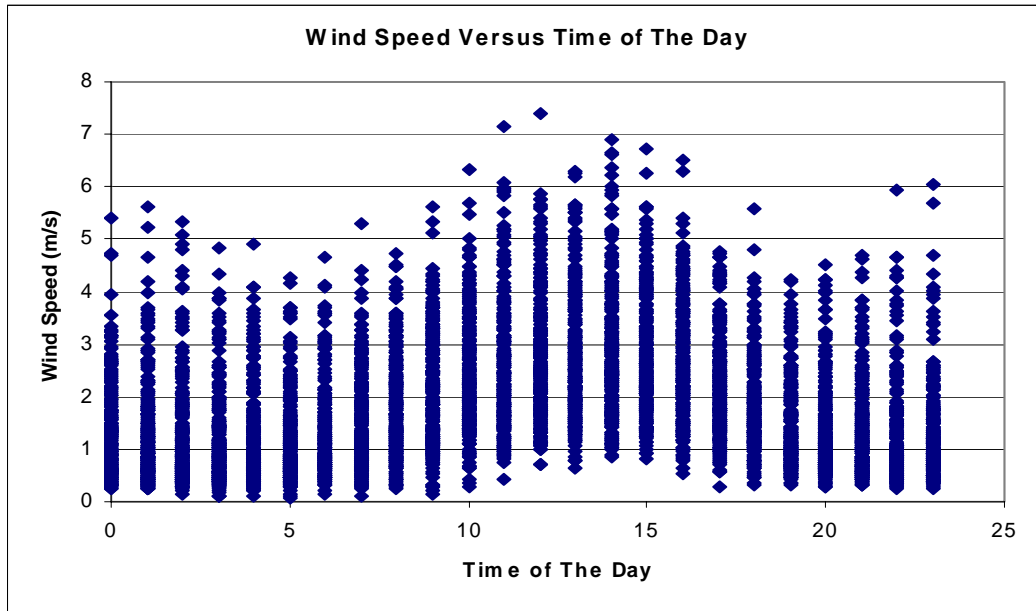


Figure 4.31 Wind Speed Over Time-Of-The-Day

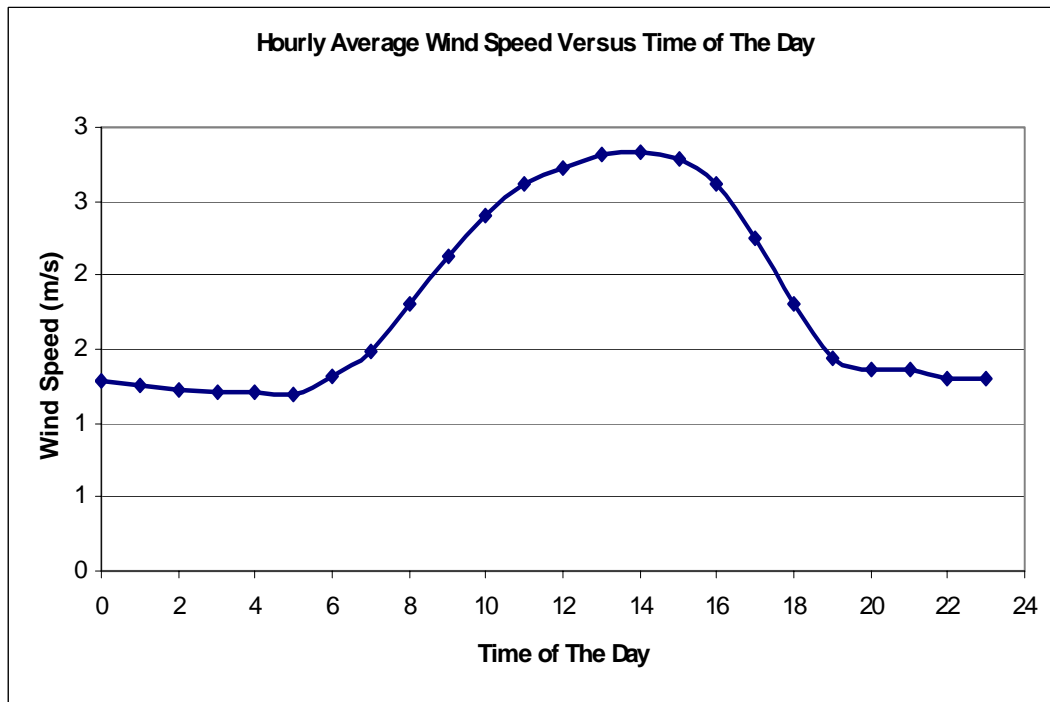
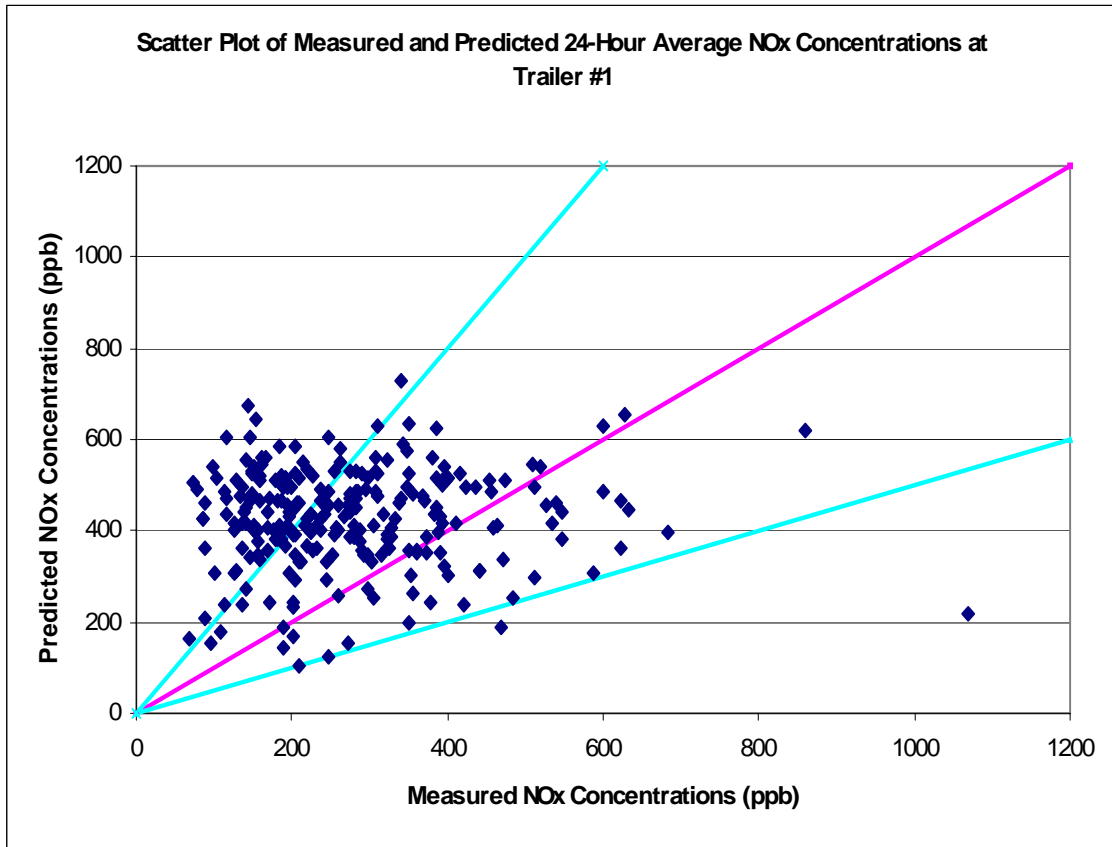
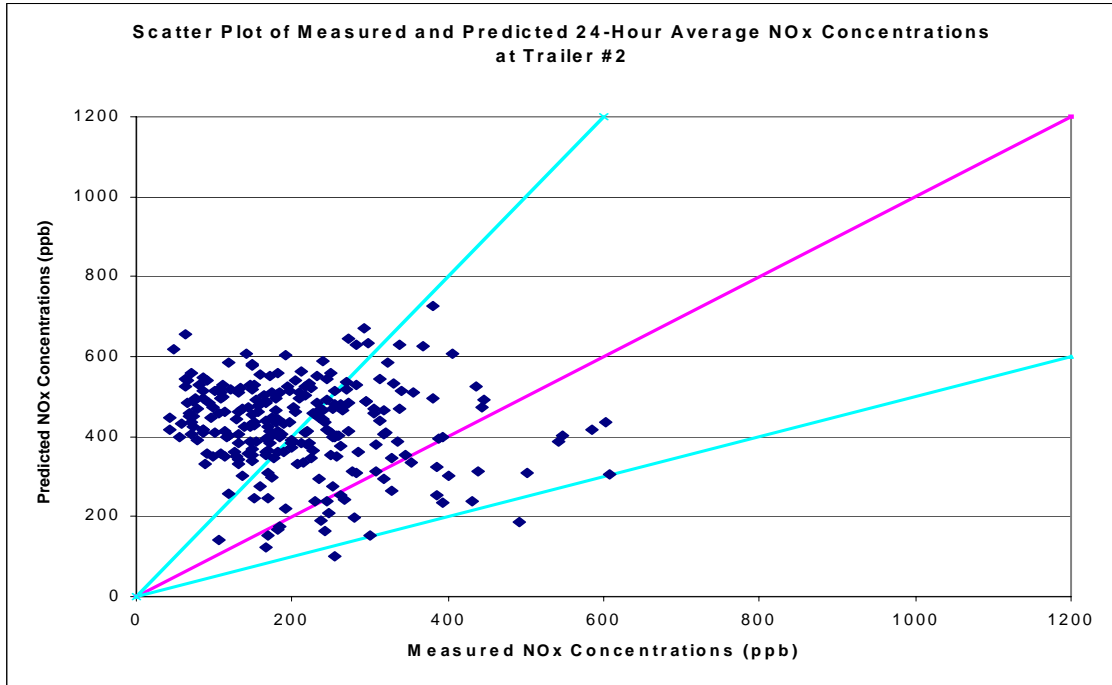


Figure 4.32 Hourly Average Wind Speed Versus Time of The Day



**Figure 4.33** Scatter Plot of Measured and Predicted 24-Hour Average NOx Concentrations at Trailer #1





**Figure 4.34** Scatter Plot of Measured and Predicted 24-Hour Average NOx Concentrations at Trailer #2

The turquoise lines represent factor of two lines indicating that points within the two turquoise lines represent predictions within a factor of two (i.e.  $0.5 \leq P/O \leq 2$  where P is predicted concentration and O is observed concentration). It can clearly be observed that at both trailers P/O is greater than 2 for a large number of points.

Furthermore, the performance of the computer model was evaluated by using the statistical procedures that are used to quantify several performance measures to evaluate the air quality model. Normalized mean square error (NMSE), fractional bias (FB), factor of two (Fa2), geometric mean bias (MG) and geometric mean variance (VG) were used to quantitatively measure the difference between observed and predicted values. Coefficient of correlation (R) was also calculated as a test of the linear relationship between measured and predicted concentrations.

The following equations were used for statistical performance determination.

$$NMSE = \frac{\overline{(C_o - C_p)^2}}{C_o C_p}$$

$$FB = \frac{(\overline{C_o} - \overline{C_p})}{0.5(\overline{C_o} + \overline{C_p})}$$

$$Fa2 = \text{Fraction of data that satisfy; } 0.5 \leq \frac{C_p}{C_o} \leq 2.0$$

$$MG = \exp(\overline{\ln C_o} - \overline{\ln C_p})$$

$$VG = \exp\left[\overline{(\ln C_o - \ln C_p)^2}\right]$$

Coefficient of correlation was also calculated as a test of the linear relationship between predicted and measured concentrations.

$$R = \frac{(\overline{C_o} - \overline{C_o})(\overline{C_p} - \overline{C_p})}{\sigma_{C_p} \sigma_{C_o}}$$

Where  $C_p$ : Model Prediction,  
 $C_o$ : Observation,  
 $\bar{C}$ : Average over the dataset, and  
 $\sigma_c$ : Standard Deviation over the data set

A study by Kumar and colleagues reported that the performance of a model can be deemed acceptable if,

$$NMSE \leq .5$$

$$-0.5 \leq FB \leq 0.5$$

$$Fa2 \geq 0.8$$

$$0.75 \leq MG \leq 1.25 \text{ and}$$

$$0.75 \leq VG \leq 1.25 \quad (\text{Kumar et. al. 1999}).$$

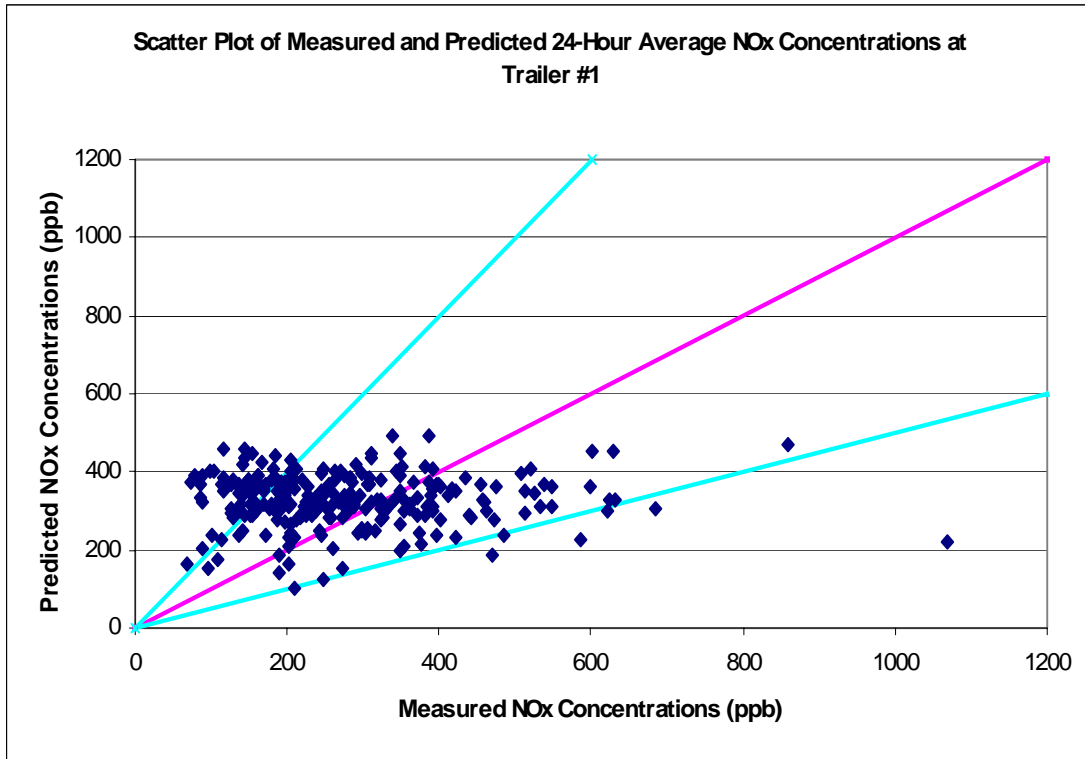
Table 4.8 summarizes statistical performance measures derived from measured and observed 24-hour average NO<sub>x</sub> concentrations at trailer #1 and trailer #2. As can be seen in the table the model satisfies NMSE, FB and MG statistical tests at both trailers and VG test at trailer #2. VG was not satisfactory at trailer #1. The model has 63% of the predictions within the factor of two at trailer #1 and 67% of predictions within the factor of two at trailer #2.

**Table 4.8** Summary of Model Statistical Performance Measure Results in The Prediction of 24-Hour average NO<sub>x</sub> Concentrations

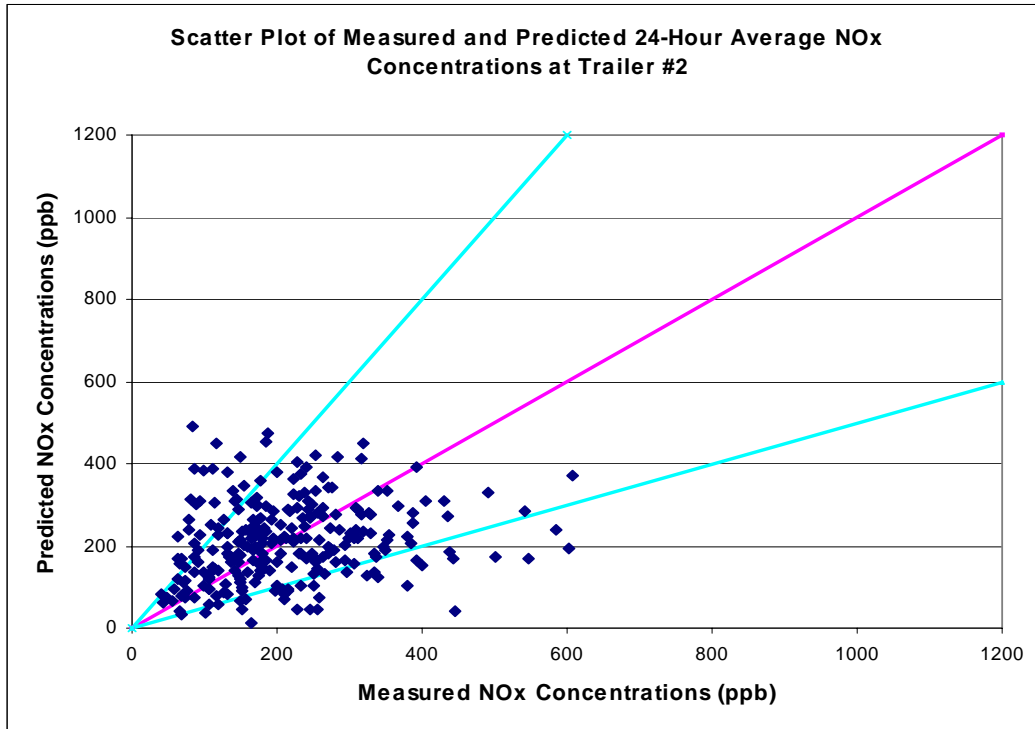
	<b>NMSE</b>	<b>FB</b>	<b>Fa2</b>	<b>MG</b>	<b>VG</b>
<b>Trailer #1</b>	0.19	-0.43	0.63	0.60	1.30
<b>Trailer #2</b>	0.05	-0.23	0.67	0.80	1.05

Negative FB indicates that the model is over-predicting at both trailers. Coefficient of correlation at trailer #1 and trailer #2 were 0.05 and 0.23 and coefficient of determination ( $R^2$ ) at trailer #1 and trailer #2 were 0.003 and 0.02 respectively showing small linear relationship between predicted and measured concentrations when using all the available data.

Referring to plots of ratios of predicted and observed values versus wind speed it can be noted that the model prediction was poor at low wind speed values. The ISCST3 model does not allow the stack height wind speed value to be less than 1.0m/s. The model changes wind speed values less than 1m/s to 1m/s. The model largely over predicted ambient NO<sub>x</sub> concentrations at lower wind speeds as shown in Figure 4.25. There is also increased turbulence inside the travel center due to trucks moving around inside the travel center compared to the area near the meteorological tower (the meteorological tower is located far from any activities that could cause turbulence) resulting in different wind speeds and directions at the travel center compared to the meteorological tower. In an attempt to improve model performance lower limit of acceptable wind speed by the ISCST3 model in the prediction of ambient concentrations of pollutants was made to be 1.5 m/s. New ISCST3 model runs were made increasing the lower limit of acceptable wind speed to 1.5m/s (the model had a poor performance for wind speed less than 1.5m/s). Performance of the model was then tested using the scatter plot diagrams and statistical performance measures. Twenty eight percent of the measured wind speeds during the course of this study were less than 1m/s and forty seven percent of measured wind speeds were less than 1.5 m/s. Figure 4.35 and Figure 4.36 show scatter plots of observed and predicted (with lowest wind speed limit of 1.5m/s) 24-hour NO<sub>x</sub> concentrations at trailer #1 and trailer #2, respectively. As seen in the scatter plots, the performance of the model with the prediction of 24-hour average NO<sub>x</sub> concentrations improved at both trailers compared to the previous prediction. There are still days that the model under-predicted and over-predicted the 24-hour average concentrations at both trailers.



**Figure 4.35** Scatter Plot of Measured and Predicted 24-Hour Average NO<sub>x</sub> Concentrations at Trailer #1 Setting the Wind Speed less than 1.5m/s to 1.5m/s.



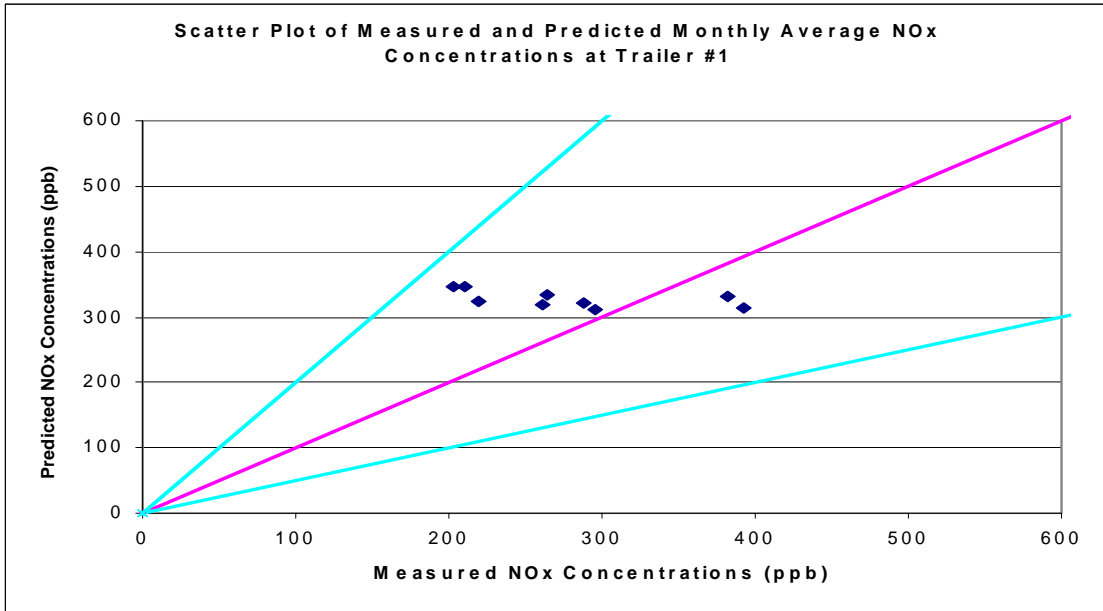
**Figure 4.36** Scatter Plot of Measured and Predicted 24-Hour Average NOx Concentrations at Trailer #2 Setting the Wind Speed less than 1.5m/s to 1.5m/s.

Statistical performance tests were then performed to evaluate the performance of the model. Table 4.9 summarizes the results of the statistical performance tests. As seen on the table the model satisfies NMSE, FB, Fa2, MG and VG statistical tests. Negative FB value at trailer #1 indicates that the model under-predicted at trailer #1 and the model over-predicted at trailer #2 since trailer #2 has a positive FB value. Coefficient of correlation values of 0.02 and 0.22 and coefficient of determination ( $R^2$ ) values of 0.0003 and 0.05 were obtained for trailer #1 and trailer #2, respectively.

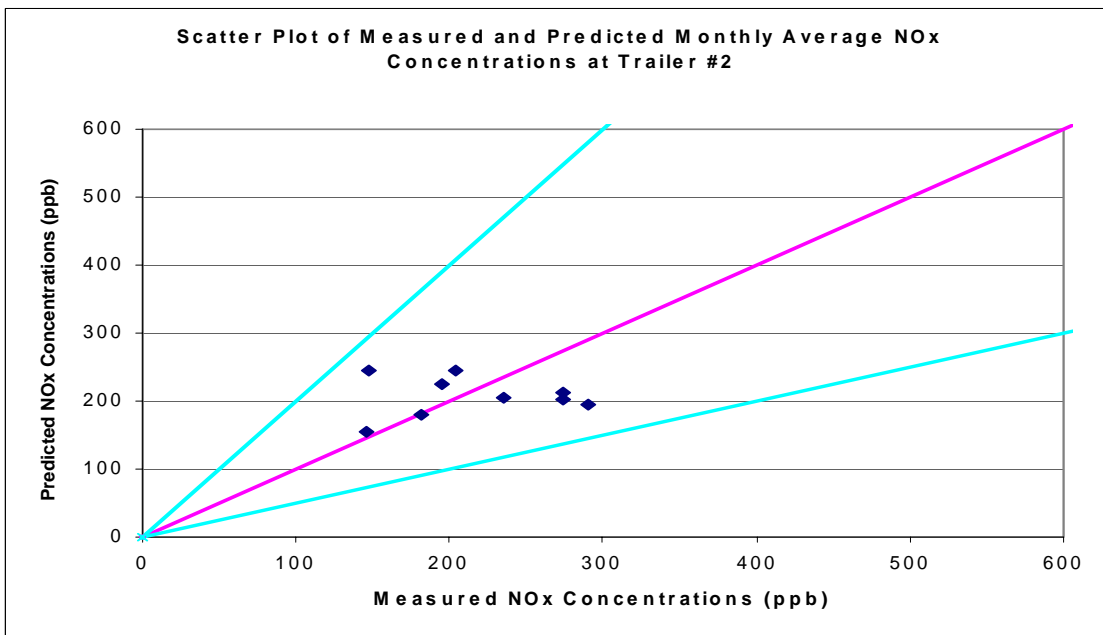
Further, the performance of the modified model on prediction of monthly average NOx concentration at the two monitoring trailers was evaluated. Monthly concentrations of NOx over the period of this study were also predicted. Two scatter plots of monthly NOx concentration corresponding to the two trailers are shown in Figure 4.37 and Figure 4.38. As seen in the scatter plots the performance of the model in predicting NOx concentration was considerably improved as the averaging time increases. All predicted monthly average NOx concentrations are within the factor of two of measured monthly average values. Statistical performance test results of model monthly average prediction is shown in Table 4.10. The model in the prediction of monthly average NOx concentrations satisfied all statistical performance tests.

**Table 4.9** Summary of Adjusted Model Statistical Performance Measure Results on Prediction of 24-Hour Average NOx Concentrations at Trailer #1 and Trailer #2.

	<b>NMSE</b>	<b>FB</b>	<b>Fa2</b>	<b>MG</b>	<b>VG</b>
<b>Trailer #1</b>	0.029	-0.17	0.8	0.77	1.07
<b>Trailer #2</b>	2.75E-05	5.2E-03	0.8	1.01	1.0



**Figure 4.37** Scatter Plot of Measured and Predicted Monthly Average NOx Concentrations at Trailer #1 Setting the Wind Speed less than 1.5m/s to 1.5m/s.



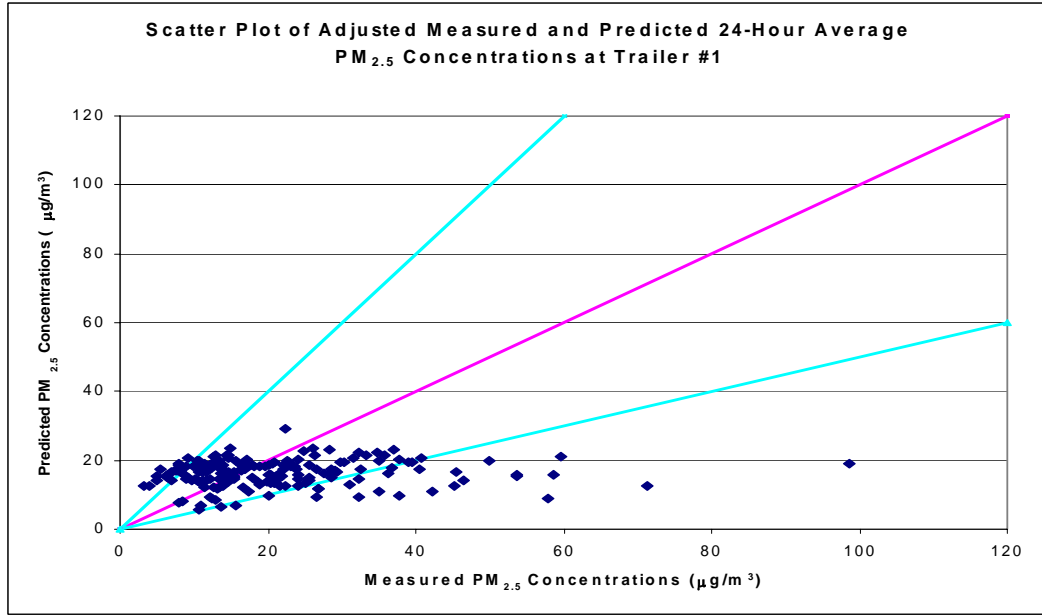
**Figure 4.38** Scatter Plot of Measured and Predicted Monthly Average NOx Concentrations at Trailer #1 Setting the Wind Speed less than 1.5m/s to 1.5m/s.



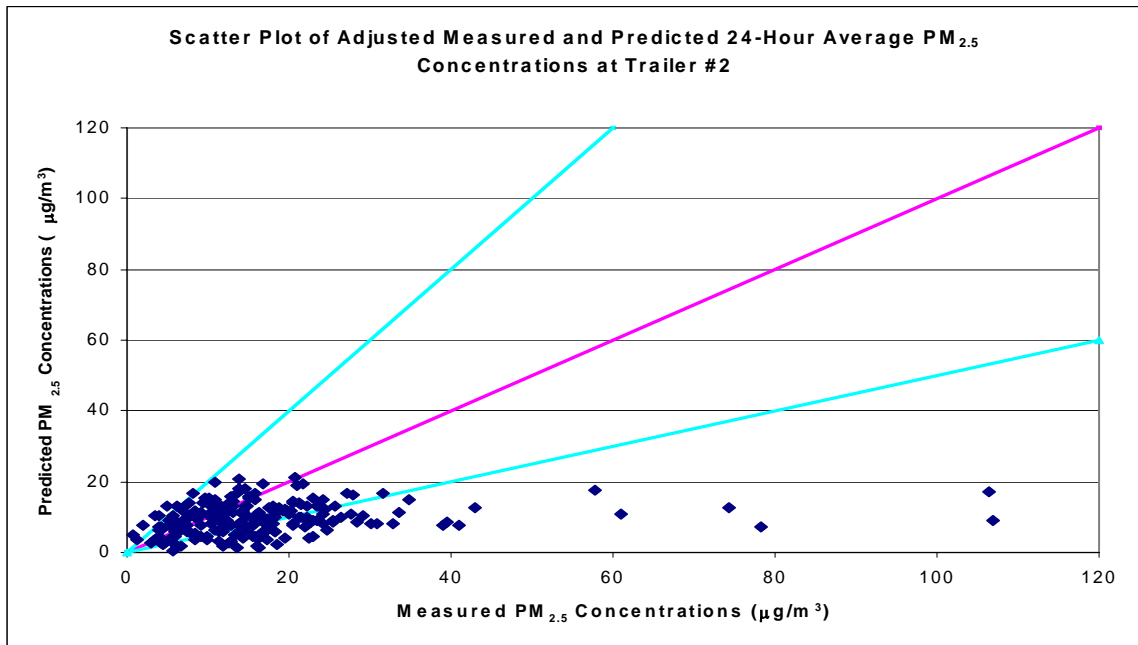
**Table 4.10** Summary of Model Statistical Performance Measure Results in The Prediction of Monthly Average NO<sub>x</sub> Concentrations

	<b>NMSE</b>	<b>FB</b>	<b>Fa2</b>	<b>MG</b>	<b>VG</b>
<b>Trailer #1</b>	0.03	-0.16	1.0	0.83	1.01
<b>Trailer #2</b>	1.9E-03	0.04	1.0	1.02	1.0

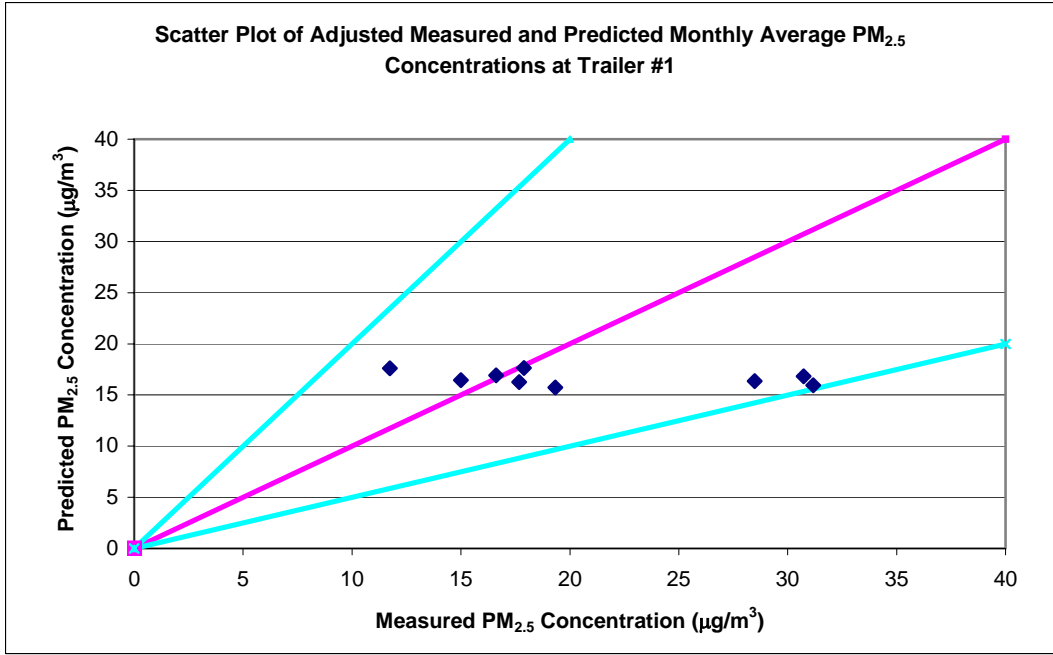
The 24-hour average and monthly average PM<sub>2.5</sub> concentrations were also predicted at the two trailers and compared to measured values to evaluate performance of the model. Measured PM<sub>2.5</sub> concentrations were adjusted to take into account the background portion of PM<sub>2.5</sub> before comparison was made with the predicted value. PM<sub>2.5</sub> concentrations measured at Look Rock were used as an adjustment to measured values. Figure 4.39 and Figure 4.40 show scatter plot diagrams of 24-hour average PM<sub>2.5</sub> concentrations at trailer#1 and trailer #2, respectively. Scatter plots of monthly average measured and predicted PM<sub>2.5</sub> concentrations are shown in Figure 4.41 and Figure 4.42. As shown in the scatter plot diagrams the model under-predicted 24-hour concentration on a number of days at the two trailers. The under-prediction is more obvious at trailer #2 compared to trailer #1. Since a significant amount of measured PM<sub>2.5</sub> concentration accounts for background concentration it cannot be concluded that the under prediction of the model is necessarily due to the performance of the model. There could be some other sources of PM<sub>2.5</sub> that were not considered in the model or the PM<sub>2.5</sub> concentration measured at Look Rock could be less than the actual background concentration at the study area. There could also be trucks that have high emission rate of PM<sub>2.5</sub> idling next to the monitoring trailers resulting in high concentrations measured at the trailers. In the case of monthly average PM<sub>2.5</sub> concentration predictions, the model again performs better as the averaging time increases. All predictions at trailer #1 were within a factor of two of observed concentrations (after adjusting measured concentration for background concentrations), whereas at trailer #2, 70% of the predicted concentrations were within a factor of two of corrected observed concentration.



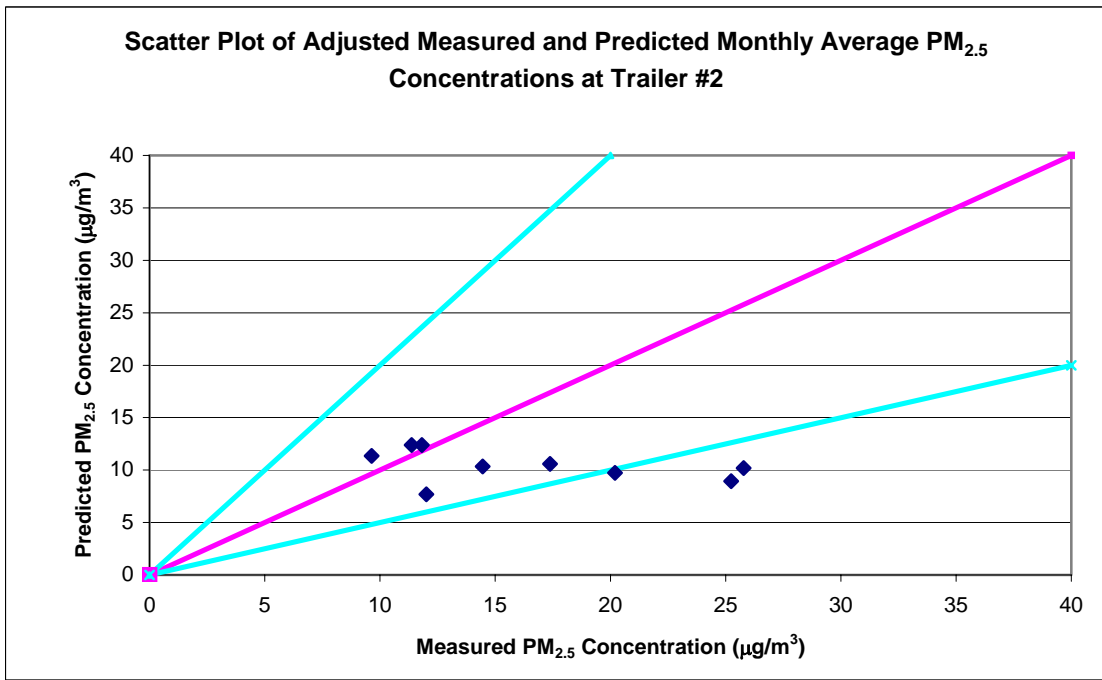
**Figure 4.39** Scatter Plot of Measured and Predicted 24-Hour Average PM<sub>2.5</sub> Concentrations at Trailer #1



**Figure 4.40** Scatter Plot of Measured and Predicted 24-Hour Average PM<sub>2.5</sub> Concentrations at Trailer #2



**Figure 4.41** Scatter Plot of Measured and Predicted Monthly Average PM<sub>2.5</sub> Concentrations at Trailer #1



**Figure 4.42** Scatter Plot of Measured and Predicted Monthly Average PM<sub>2.5</sub> Concentrations at Trailer #2

Statistical performance tests were also done on the 24-hour average and monthly average PM<sub>2.5</sub> predictions and the results are presented in Table 4.11 and Table 4.12. The tables show that predictions at trailer #1 satisfied all statistical tests while predictions at trailer#2 did not satisfy Fa2 and MG tests.

#### 4.4.2 Predicted Concentrations

Annual average and maximum 24-hour average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations were determined using the ISCST3 computer model. Emissions from vehicles on the I40/I75 interstate, entrance and exit ramps, Watt road and trucks at the three travel centers (Petro, Travel America and Flying J) were considered as sources of emissions for the computer modeling. The meteorological file required by the computer model was developed using data from a meteorological tower located at the Watt Road and I-40 interchange. The model run was made by increasing the lower limit of acceptable wind speed to 1.5m/s. The results of the computer modeling performed using EPA’s ISCST3 model are shown on the isopleth maps below.

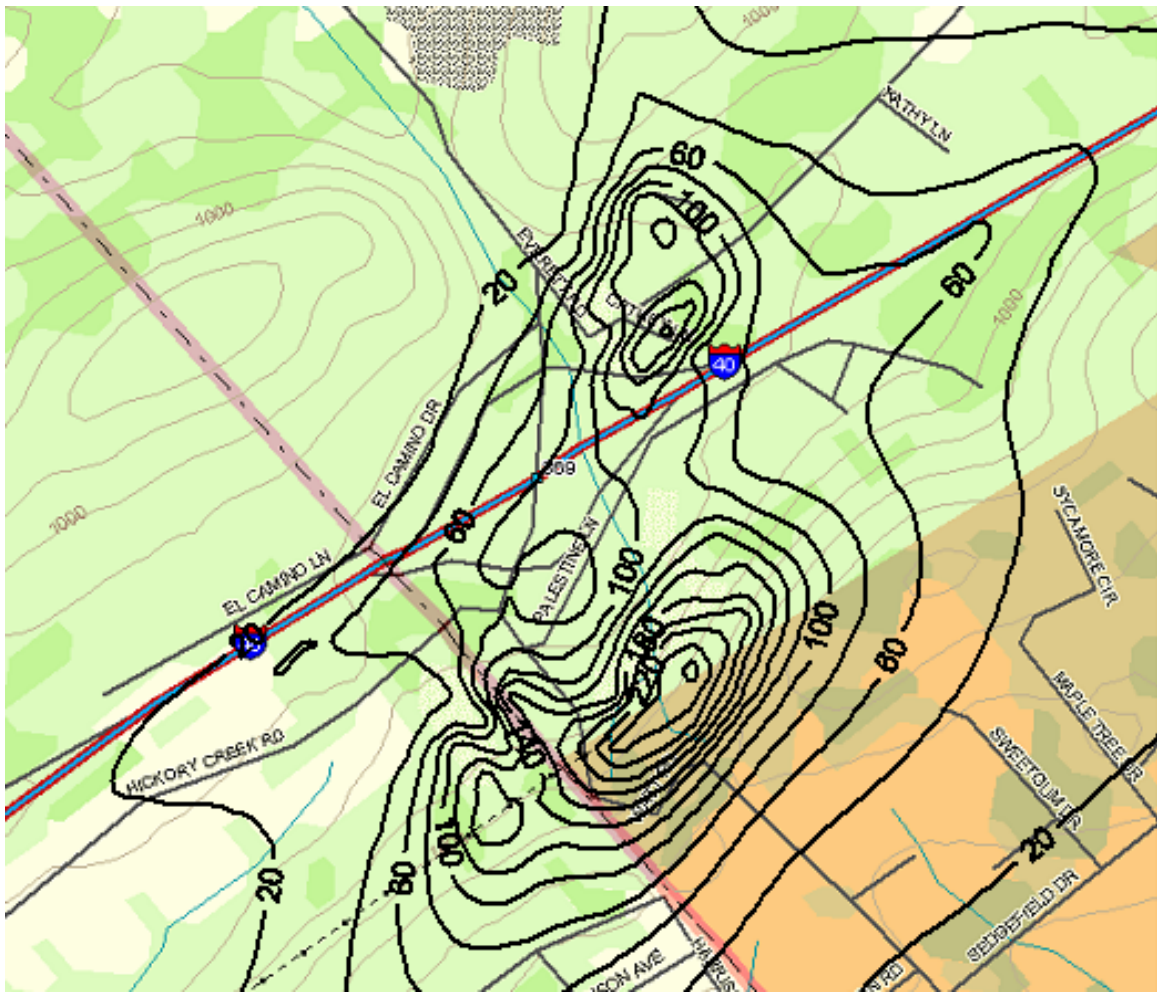
Figure 4.43 and Figure 4.44 show the annual average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations at ground level in the Watt Road area. As can be seen on the annual average NO<sub>x</sub> and PM<sub>2.5</sub> plots there are three hot-spots corresponding to the three travel centers at the Watt Road area. The annual average concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> at these three travel centers are much higher than the concentrations anywhere in the modeled area.

**Table 4.11** Summary of Model Statistical Performance Measure Results in The Prediction of 1-Hour Average PM<sub>2.5</sub> Concentrations

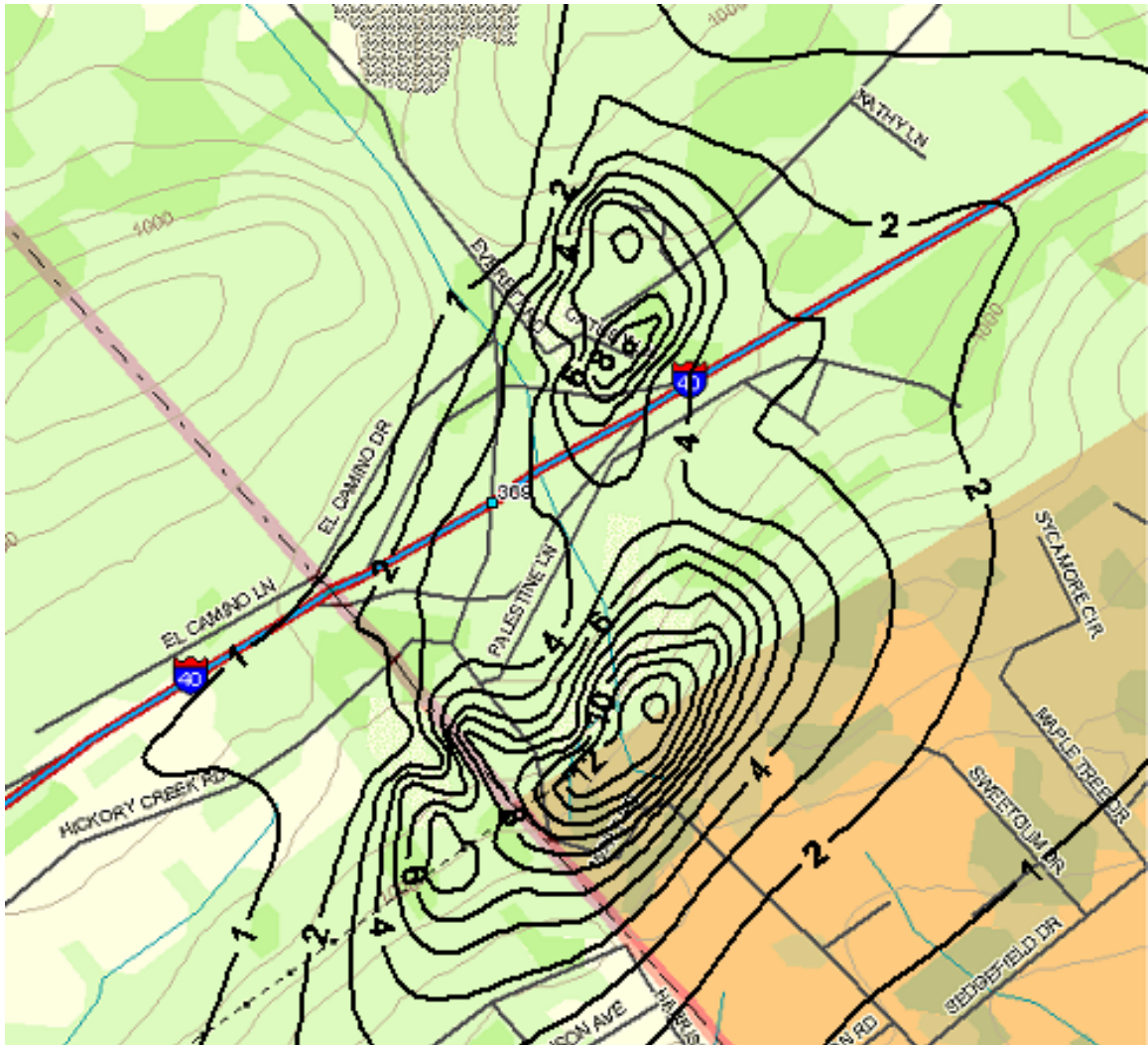
	<b>NMSE</b>	<b>FB</b>	<b>Fa2</b>	<b>MG</b>	<b>VG</b>
<b>Trailer #1</b>	0.05	-0.07	0.8	1.07	1.01
<b>Trailer #2</b>	0.22	0.45	0.7	1.45	1.15

**Table 4.12** Summary of Model Statistical Performance Measure Results in The Prediction of Monthly Average PM<sub>2.5</sub> Concentrations

	NMSE	FB	Fa2	MG	VG
<b>Trailer #1</b>	0.05	0.22	1.0	1.2	1.03
<b>Trailer #2</b>	0.21	0.45	0.78	1.51	1.18



**Figure 4.43** Isopleth Map of Annual Average NO<sub>x</sub> Concentrations at Watt Road Area (ppb). (Each contour interval equals 20 ppb)



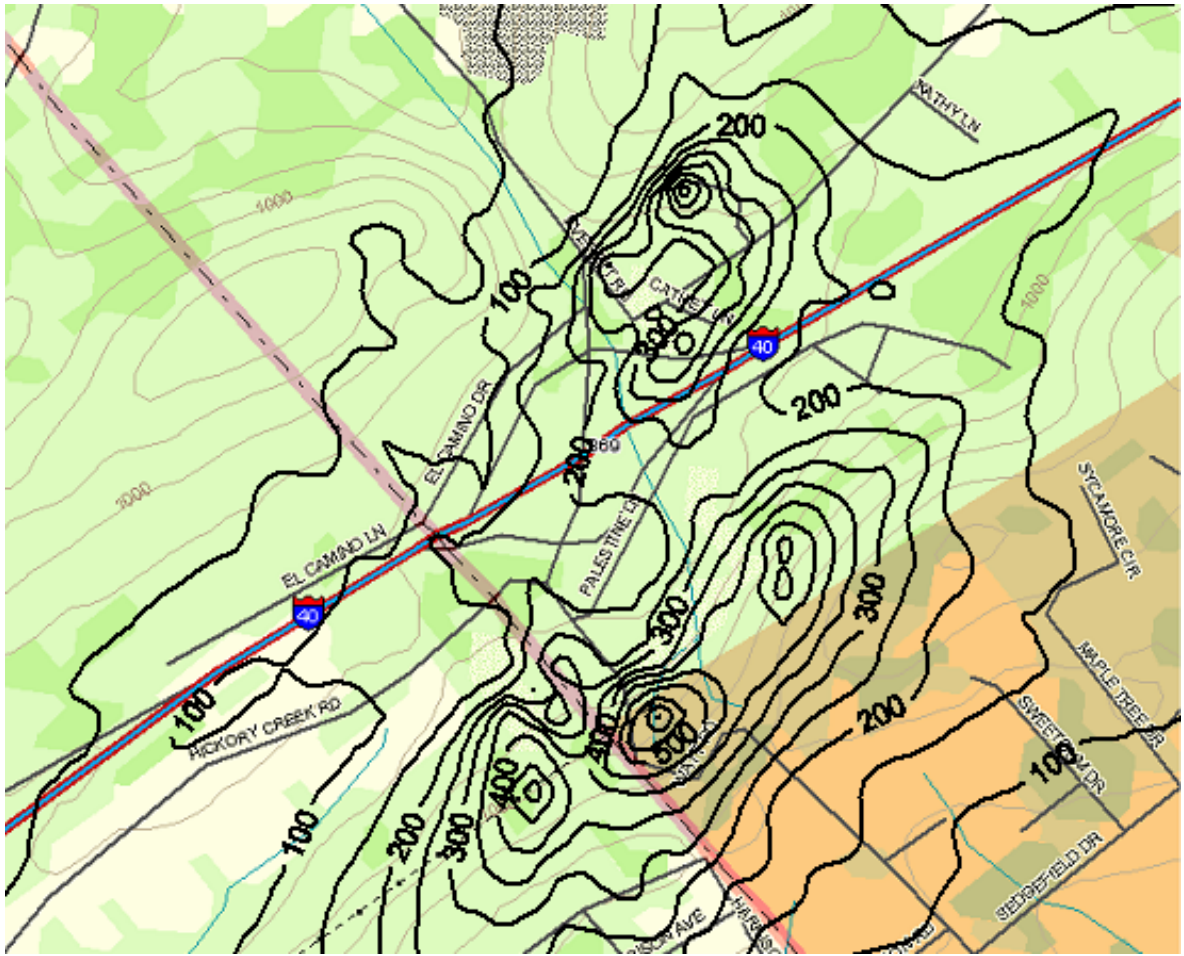
**Figure 4.44** Isopleth Map of Annual Average PM<sub>2.5</sub> Concentration at Watt Road Area (µg/m<sup>3</sup>). (Each contour interval equals 1µg/m<sup>3</sup>)

Figure 4.43 shows annual average NO<sub>x</sub> concentrations of 260 ppb inside the Petro truck travel center, the largest travel center at the area of this study. The other two hot-spots with higher concentrations show annual average NO<sub>x</sub> concentrations of 180 ppb and 140ppb at Flying J and Travel America truck travel centers, respectively.

The annual average PM<sub>2.5</sub> concentration plot is shown in Figure 4.44. It should be noted that PM<sub>2.5</sub> concentrations shown on the isopleth maps do not include background concentrations in the area. They account for the PM<sub>2.5</sub> concentrations generated from trucks at the travel centers and other highway sources in the area. Again three hot spots are predicted at the three travel centers with concentrations as high as 13 µg/m<sup>3</sup> at Petro travel center. The isopleth map also shows PM<sub>2.5</sub> concentrations as high as 9 µg/m<sup>3</sup> at the Flying J and 7 µg/m<sup>3</sup> at the Travel America truck travel center. The regional average PM<sub>2.5</sub> concentration was 13.4 µg/m<sup>3</sup> (based on Look Rock Data) for the duration of this study. If this concentration is added to the predicted concentrations then all the “hot-spot” areas are likely to have average concentrations greater than the PM<sub>2.5</sub> NAAQS of 15 µg/m<sup>3</sup> annual mean. Areas shown on the isopleth map with annual average PM<sub>2.5</sub> concentrations greater than 1.6 µg/m<sup>3</sup> have annual average PM<sub>2.5</sub> concentration greater than the annual average standard value. This covers most of the modeled area around Watt Road.

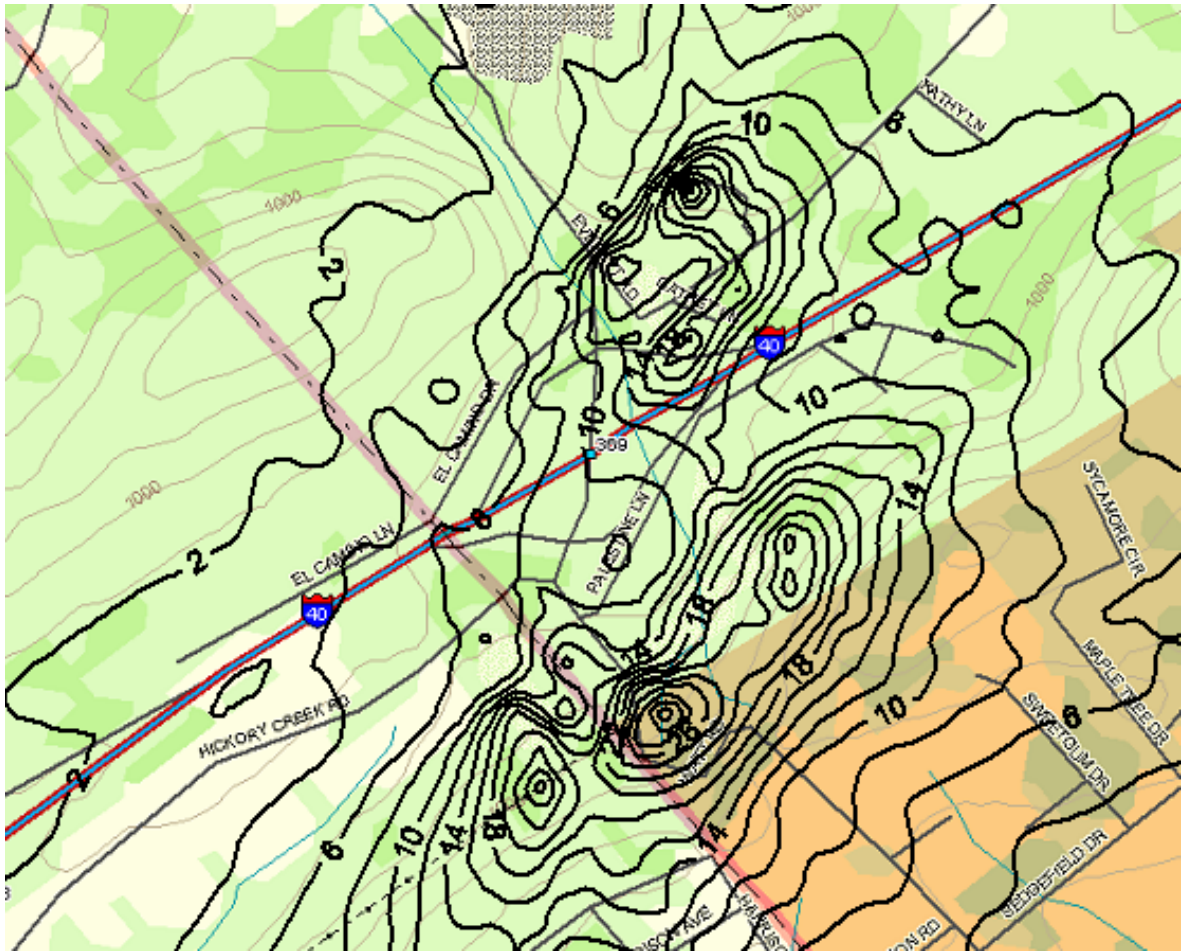
Maximum 24-hour average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations were also determined using ISCST3 model and the results are shown in Figure 4.45 and Figure 4.46. Again three hot spots were predicted at the three truck travel centers, as was the case in annual average isopleth maps. Maximum 24-hour NO<sub>x</sub> concentrations as high as 650 ppb were predicted are shown on the isopleth map. Predicted PM<sub>2.5</sub> concentrations were as high as 32µg/m<sup>3</sup> as shown on Figure 4.46 for the maximum 24-hour average PM<sub>2.5</sub> concentration.

Potential air quality improvement in the study area from IdleAire electrification units was predicted using the ISCST3 model. The reduction in ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> were predicted for a case where there is no long-term idling at the Petro truck travel center.



**Figure 4.45** Isopleth Map of Maximum 24-Hour Average NO<sub>x</sub> Concentration at Watt Road Area (ppb). (Each contour interval equals 50 ppb)





**Figure 4.46** Isopleth Map of Maximum 24-Hour Average  $PM_{2.5}$  Concentration at Watt Road Area ( $\mu g/m^3$ ). (Each contour interval equals  $2\mu g/m^3$ )

This “no long term idling” case can be achieved if sufficient electrification units are provided for all trucks that would otherwise idle. Emission sources in this case are trucks traveling around the travel center looking for parking spaces or while leaving the travel center, refueling trucks and trucks using the truck wash facility. All other trucks are considered to be connected to IdleAire units or have their engine turned off. Ambient concentrations for the “no long-term idling” case was predicted and compared to the predicted “base” case ambient NO<sub>x</sub> and PM<sub>2.5</sub> concentrations which represent the current case at the travel center. Potential air quality improvements at the two monitoring trailers were determined as the difference in ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> between the “base” case and “no long-term idling” case. Potential reductions in ambient concentrations of NO<sub>x</sub> and PM<sub>2.5</sub> are shown in Table 4.13. Values shown in the table do not include background ambient concentrations. As is shown in the table an annual average NO<sub>x</sub> reduction of 231 ppb and 98 ppb were predicted at trailer #1 and trailer #2, respectively. Potential annual average PM<sub>2.5</sub> concentration reduction of 12 µg/m<sup>3</sup> and 5.1 µg/m<sup>3</sup> were predicted at trailer #1 and trailer #2 respectively. The predicted reductions at trailer #1 correspond to about 70% of ambient NO<sub>x</sub> and PM<sub>2.5</sub> concentrations. On the other hand, the predicted reductions at trailer #2 correspond to 48% of ambient NO<sub>x</sub> and PM<sub>2.5</sub> concentrations.

**Table 4.13** Predicted Potential NO<sub>x</sub> and PM<sub>2.5</sub> Ambient Concentration Reductions at The Monitoring Trailers

		Base Case	No long-term Idling case	Potential Reduction
Ambient NO <sub>x</sub> Concentrations (ppb)	Trailer #1	334	103	231
	Trailer #2	210	112	98
Ambient PM <sub>2.5</sub> Concentrations (µg/m <sup>3</sup> )	Trailer #1	17	5	12
	Trailer #2	10.5	5.4	5.1

## 5 CONCLUSIONS

The overall objective of this study was to identify different activities associated with idling emissions of different pollutants in the truck travel centers, monitor the concentrations of PM<sub>2.5</sub>, NO<sub>x</sub> and CO in the ambient air using monitoring equipment at two different locations of the truck stop, predict concentrations of PM<sub>2.5</sub> and NO<sub>x</sub> using the ISC model and determine the effectiveness of the IdleAire technology in reducing emissions. The Petro truck travel center at Watt Road was chosen for monitoring ambient pollutant concentrations because this is where the 114 IdleAire units were installed. Based on the study the following conclusions were reached:

- Even with many trucks using the IdleAire facilities there are still large numbers of trucks idling each day at Petro truck stop. There are only 110 available IdleAire spaces out of a total 265 parking spaces, and idling trucks use many of these spaces, especially at night. A sufficient number idling trucks cause high NO<sub>x</sub> and PM<sub>2.5</sub> air pollution concentrations to occur in the area as evidenced by the air monitoring result.
- Idling, parking with the engine off, using the IdleAire facility, refueling, using the truck wash and moving around the travel center were identified as major activities taking place at the travel center.
- The number of trucks parked with their engine off, idling and using IdleAire facility is larger at night compared to daytime. The number of trucks at the travel center reaches a maximum at night (around mid-night) and the travel center remains almost full (265 trucks) until early morning hours. The number of trucks on-site reaches a minimum around mid-day. The number of idling trucks was found to follow a similar trend as the total number of trucks. In addition the

number of idling trucks was found to be higher during the coldest weather in December and January and during the hottest weather in July and August.

- A clear trend in the ambient concentrations of NO<sub>x</sub>, PM<sub>2.5</sub> and CO was observed with respect of the time of the day. Concentrations were high at night (because of large number of trucks at the travel center and calm weather at night) and low during daytime for all monitored pollutants. It was also observed that NO<sub>2</sub> accounted for an average of 20 percent of ambient air NO<sub>x</sub> concentrations at the travel center.
- Measurements of NO<sub>x</sub> and PM<sub>2.5</sub> concentrations in the ambient air confirmed the existence of significant emission from idling trucks. Measured 24-hour average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations were as high as 1069 ppb of NO<sub>x</sub> and 116 µg/m<sup>3</sup> of PM<sub>2.5</sub> at monitoring station # 1 and 608 ppb of NO<sub>x</sub> and 116 µg/m<sup>3</sup> of PM<sub>2.5</sub> at monitoring station #2.
- Ambient total carbon concentrations were higher in winter compared to summertime. Measured ambient PM<sub>2.5</sub> was significantly higher at the truck stop than at the I-40 Watt Road site. Organic carbon accounted for about 90 percent of total carbon in the ambient air at the study area. Elemental carbon accounted for 10 percent of total carbon PM<sub>2.5</sub>.
- Three hot-spots were predicted at the three-travel centers using the ISC model. Predicted annual average and maximum 24-hour average NO<sub>x</sub> and PM<sub>2.5</sub> concentrations at the Watt Road area were significantly higher at the travel centers than anywhere in the modeled area. The modeling work performed also confirms the occurrence of high idling emissions.

- The performance of the model for the case considered was improved considerably by increasing the lower limit of acceptable wind speed in the model. The performance of the model in the prediction of pollutants at the trucks travel center was improved by increasing the lower limit of acceptable wind speed to 1.5 m/s. As the averaging time considered increased further improvement in the performance of the model was observed.
- While the modeling work performed conservatively for the average conditions it still under-predicted maximum 24-hour concentrations of PM<sub>2.5</sub>. It may be that on “worst case” days there are more PM<sub>2.5</sub> emissions in the area than we have been able to account for from idling trucks. This could be due to fugitive emissions from road dust or some other unknown sources.
- Lower coefficient of determination ( $R^2$ ) values for predicted versus measured ambient concentrations of pollutants were obtained showing very little linear relationship between measured and predicted ambient pollutants concentrations. This low  $R^2$  values show the importance of doing measurements in the evaluation of air quality rather than fully depending on modeling work.
- The effectiveness of the IdleAire technology in reducing emissions was estimated based on the average idling emission rate of a heavy-duty diesel trucks reported by USEPA (EPA, January 2004), the average truck utilization rate of the IdleAire equipment, and the average occupancy rate of trucks parked in the 110 available IdleAire equipped spaces. The average occupancy rate of all truck parking spaces at Petro measured by UT during the study was 68% (December, 2003 through August, 2004). An average of 37% of the parking spaces at Petro truck travel center were occupied by idling trucks according to the truck count result of this study. This makes NO<sub>x</sub> and PM<sub>2.5</sub> emissions from idling trucks at the Petro truck

travel center to be 706 lb/day ( 0.353 tons/day) and 19.2 lb/day (0.0096tons/day). During the summer months of June, July and August the occupancy rate of trucks parked in the IdleAire equipped spaces was 64%, based 475 empty space counts, one every 4 hours over an 83-day period by IdleAire employees. Based on UT counts, 43% of trucks parking in IdleAire spaces actually used the IdleAire equipment, while 25% parked without hooking up or idling and 32% parked in an IdleAire space, did not hook up to the equipment and idled the truck engine. Sixty-four percent occupancy multiplied times 43% utilization equals an effective use rate of 28%. This means that during the summer months of the ozone season (when NO<sub>x</sub> emission reductions are most important), the available IdleAire units were used 28% of the time. The rest of the time the IdleAire equipped parking spaces were either empty, or contained an idling or engine-off truck. USEPA emission factors for idling HDDV trucks are 135 g/hr NO<sub>x</sub> and 3.68 g/hr of PM<sub>2.5</sub>. The potential emission reductions from 110 IdleAire equipped spaces utilized 100% of the time is 785 lb/day of NO<sub>x</sub> and 21.4 lb/day of PM<sub>2.5</sub>. With 28% utilization, the emission reductions are reduced to 220 lb/day of NO<sub>x</sub> (or 0.11 tons/day NO<sub>x</sub>) and 6.0 lb/day of PM<sub>2.5</sub>. Emission reductions from 28% utilization equals 31% of estimated current emissions of NO<sub>x</sub> and PM<sub>2.5</sub> at Petro travel center. The effectiveness of the IdleAire technology could be improved by prohibiting trucks from using their spaces without connecting to the service, or by prohibiting all truck idling, thereby forcing more trucks to utilize the technology. It is likely that as fuel costs increase and truckers become more familiar with the equipment, its utilization rate will increase.

- Air quality improvement can be achieved with IdleAire electrification units. Potential annual average NO<sub>x</sub> reductions of 231 ppb of NO<sub>x</sub> and 12 µg/m<sup>3</sup> of PM<sub>2.5</sub> were predicted as achievable reductions at trailer #1 if all trucks currently idling inside Petro truck travel center use IdleAire electrification units. A potential annual average reduction of 98 ppb of NO<sub>x</sub> and 5.1 µg/m<sup>3</sup> of PM<sub>2.5</sub> were predicted as potential ambient concentration reductions at trailer #2.

## 6 RECOMMENDATIONS

This study dealt with measurement of ambient concentrations of NO<sub>x</sub>, PM<sub>2.5</sub> and CO inside a selected truck travel center. The area around the truck travel center was also modeled to predict concentrations of NO<sub>x</sub> and PM<sub>2.5</sub>. However the study was limited in certain aspects and the following recommendations were made for future study:

- Background ambient PM<sub>2.5</sub> concentration of the study area was considered to be the same as ambient PM<sub>2.5</sub> concentration measured at Look Rock. Due to a large amount of trucks activity at the study area, the background PM<sub>2.5</sub> concentration could be higher than that of Look Rock. Measurement of background ambient PM<sub>2.5</sub> concentration of the Watt Road area is needed to determine the actual ambient background PM<sub>2.5</sub> concentration.
- In this study background NO<sub>x</sub> concentrations were considered to be insignificant compared to total measured ambient NO<sub>x</sub> concentrations at the truck travel center. Measurement of background NO<sub>x</sub> ambient concentration is also needed to determine the portion of measured NO<sub>x</sub> that originates from idling trucks.
- Coefficient of correlation between modeled and measured values from this study were very low. The performance of the model is affected by meteorological parameters used for developing the meteorological input file. Meteorological parameters could be measured inside the travel center so that an improved meteorological parameters can be used for the ISCST3 model.
- The component of sampled particulate matter could be analyzed to determine their origin. Tracers can also be used to identify the portion of PM<sub>2.5</sub> that originates from idling trucks.

- VOC is one of the six criteria pollutants and was not considered in this study. Ambient concentration of VOC need to be measured to evaluate the health effect that it can cause in truck travel centers.



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## **Appendix**

## A-1 Summary of Truck Count at Petro Truck Travel Center

Day	Date	Time	Total Number of Trucks	Idling Number of Trucks	Number of Trucks Connected to IdleAire Units
Sunday	12/14/2003	7:30am	246	135	34
Sunday	12/14/2003	1:30pm	171	98	23
Monday	12/15/2003	8:45pm	144	79	13
Friday	12/19/2003	9:17am	93	73	5
Sunday	12/21/2003	4:30pm	183	103	8
Monday	12/22/2003	4:36pm	74	47	1
Tuesday	12/23/2003	11:23am	68	39	3
Wednesday	12/24/2003	9:00am	62	39	2
Monday	12/29/2003	1:18pm	59	28	4
Tuesday	12/30/2003	7:03am	118	88	1
Wednesday	12/31/2003	11:26am	72	48	4
Thursday	1/1/2004	5:20am	233	111	40
Friday	1/2/2004	9:50am	66	45	9
Sunday	1/4/2004	11:45am	129	74	17
Tuesday	1/5/2004	3:30pm	93	39	12
Tuesday	1/6/2004	4:14pm	139	92	9
Wednesday	1/7/2004	1:35pm	122	71	4
Friday	1/9/2004	5:40pm	133	67	11
Sunday	1/11/2004	2:50pm	178	101	27
Tuesday	1/13/2004	6:43pm	192	95	11
Friday	1/16/2004	9:30pm	215	111	26
Saturday	1/17/2004	9:30am	163	79	19
Sunday	1/18/2004	12:20am	250	103	48
Wednesday	1/21/2004	2:24pm	82	71	10
Wednesday	1/21/2004	4:15pm	134	65	13
Saturday	1/24/2004	3:25pm	138	65	14
Wednesday	1/28/2004	2:30pm	130	85	10
Saturday	1/31/2004	2:55pm	156	76	17
Tuesday	2/3/2004	11:20am	92	51	11
Friday	2/6/2004	11:20am	77	53	3
Monday	2/9/2004	12:57pm	77	43	4
Tuesday	2/10/2004	9:48pm	201	133	24
Thursday	2/12/2004	10:30am	115	59	12
Sunday	2/15/2004	3:13pm	135	67	19
Thursday	2/19/2004	12:40pm	109	53	3
Monday	2/23/2004	8:25am	96	57	10
Thursday	2/26/2004	6:13pm	150	87	12
Friday	2/27/2004	12:41 am	245	128	33

<b>Day</b>	<b>Date</b>	<b>Time</b>	<b>Total Number of Trucks</b>	<b>Idling Number of Trucks</b>	<b>Number of Trucks Connected to IdleAire Units</b>
Tuesday	3/2/2004	5:40am	232	80	20
Thursday	3/4/2004	7:08pm	183	90	18
Saturday	3/6/2004	12:30pm	146	66	15
Thursday	4/1/2004	4:45pm	132	60	6
Sunday	4/4/2004	6:29pm	176	79	22
Monday	5/10/2004	4:20pm	93	53	10
Thursday	5/13/2004	12:50pm	129	83	16
Tuesday	5/18/2004	7:00pm	167	70	24
Tuesday	5/25/2004	2:45pm	104	71	8
Thursday	6/10/2004	7:30pm	159	90	27
Tuesday	6/29/2004	5:20pm	137	79	12
Thursday	7/8/2004	10:20am	115	85	10
Tuesday	7/20/2004	4:45pm	152	113	18
Friday	7/23/2004	7:25am	155	102	22
Wednesday	7/28/2004	4:30pm	145	107	13
Sunday	8/1/2004	3:30pm	150	86	37
Thursday	8/5/2004	11:30am	97	65	9
Tuesday	8/10/2004	12:20pm	120	84	11
Thursday	8/19/2004	8:30pm	196	132	33
Saturday	10/9/2004	4:00am	235	44	47
Wednesday	10/13/2004	7:30am	196	38	20
Thursday	10/14/2004	4:30am	259	76	31
Friday	10/15/2004	3:30am	230	64	31



## A-2 1-Hour Average Concentrations at Trailer #1 and Trailer # 2

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Dec-03	15:00:00					54				
12-Dec-03	16:00:00					12				
12-Dec-03	17:00:00					17				
12-Dec-03	18:00:00					18				
12-Dec-03	19:00:00					9				
12-Dec-03	20:00:00					16				
12-Dec-03	21:00:00					11				
12-Dec-03	22:00:00					12				
12-Dec-03	23:00:00					15				
13-Dec-03	0:00:00					15				
13-Dec-03	1:00:00					7				
13-Dec-03	2:00:00					8				
13-Dec-03	3:00:00					17				
13-Dec-03	4:00:00					23				
13-Dec-03	5:00:00					2				
13-Dec-03	6:00:00					21				
13-Dec-03	7:00:00					15				
13-Dec-03	8:00:00					15				
13-Dec-03	9:00:00					16				
13-Dec-03	10:00:00					11				
13-Dec-03	11:00:00					13				
13-Dec-03	12:00:00					12				
13-Dec-03	13:00:00					13				
13-Dec-03	14:00:00					35				
13-Dec-03	15:00:00					14				
13-Dec-03	16:00:00					9				
13-Dec-03	17:00:00					14				
13-Dec-03	18:00:00					19				
13-Dec-03	19:00:00					30				
13-Dec-03	20:00:00					44				
13-Dec-03	21:00:00					39				
13-Dec-03	22:00:00					23				
13-Dec-03	23:00:00					51				
14-Dec-03	0:00:00					42				
14-Dec-03	1:00:00					45				
14-Dec-03	2:00:00					46				
14-Dec-03	3:00:00					52				
14-Dec-03	4:00:00					49				
14-Dec-03	5:00:00					21				
14-Dec-03	6:00:00					33				
14-Dec-03	7:00:00					28				
14-Dec-03	8:00:00					23				

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Dec-03	9:00:00					24				
14-Dec-03	10:00:00					28				
14-Dec-03	11:00:00					26				
14-Dec-03	12:00:00					31				
14-Dec-03	13:00:00					33				
14-Dec-03	14:00:00					29				
14-Dec-03	15:00:00					15				
14-Dec-03	16:00:00					20				
14-Dec-03	17:00:00					13				
14-Dec-03	18:00:00					17				
14-Dec-03	19:00:00					15				
14-Dec-03	20:00:00					21				
14-Dec-03	21:00:00					34				
14-Dec-03	22:00:00					36				
14-Dec-03	23:00:00					26				
15-Dec-03	0:00:00					22				
15-Dec-03	1:00:00					22				
15-Dec-03	2:00:00					23				
15-Dec-03	3:00:00					25				
15-Dec-03	4:00:00					42				
15-Dec-03	5:00:00					39				
15-Dec-03	6:00:00					33				
15-Dec-03	7:00:00					34				
15-Dec-03	8:00:00					41				
15-Dec-03	9:00:00					74				
15-Dec-03	10:00:00					39				
15-Dec-03	11:00:00									
15-Dec-03	12:00:00					9				
15-Dec-03	13:00:00					14				
15-Dec-03	14:00:00					12				
15-Dec-03	15:00:00					10				
15-Dec-03	16:00:00					24				
15-Dec-03	17:00:00					31				
15-Dec-03	18:00:00					18				
15-Dec-03	19:00:00					46				
15-Dec-03	20:00:00					40				
15-Dec-03	21:00:00					34				
15-Dec-03	22:00:00					47				
15-Dec-03	23:00:00					53				
16-Dec-03	0:00:00					61				
16-Dec-03	1:00:00					77				
16-Dec-03	2:00:00					69				
16-Dec-03	3:00:00					93				
16-Dec-03	4:00:00					98				

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Dec-03	5:00:00					111				
16-Dec-03	6:00:00					134				
16-Dec-03	7:00:00					126				
16-Dec-03	8:00:00					96				
16-Dec-03	9:00:00					55				
16-Dec-03	10:00:00					3				
16-Dec-03	11:00:00					13				
16-Dec-03	12:00:00					10				
16-Dec-03	13:00:00					13				
16-Dec-03	14:00:00					9				
16-Dec-03	15:00:00					16				
16-Dec-03	16:00:00					13				
16-Dec-03	17:00:00					4				
16-Dec-03	18:00:00					12				
16-Dec-03	19:00:00					16				
16-Dec-03	20:00:00					22				
16-Dec-03	21:00:00					38				
16-Dec-03	22:00:00					25				
16-Dec-03	23:00:00					30				
17-Dec-03	0:00:00					31				
17-Dec-03	1:00:00					48				
17-Dec-03	2:00:00					45				
17-Dec-03	3:00:00					32				
17-Dec-03	4:00:00					51				
17-Dec-03	5:00:00					49				
17-Dec-03	6:00:00					60				
17-Dec-03	7:00:00					65				
17-Dec-03	8:00:00					56				
17-Dec-03	9:00:00					33				
17-Dec-03	10:00:00					18				
17-Dec-03	11:00:00					15				
17-Dec-03	12:00:00					18				
17-Dec-03	13:00:00					17				
17-Dec-03	14:00:00									
17-Dec-03	15:00:00					21				
17-Dec-03	16:00:00					14				
17-Dec-03	17:00:00					16				
17-Dec-03	18:00:00					27				
17-Dec-03	19:00:00					39				
17-Dec-03	20:00:00					33				
17-Dec-03	21:00:00					34				
17-Dec-03	22:00:00					38				
17-Dec-03	23:00:00					41				
18-Dec-03	0:00:00					40				

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Dec-03	1:00:00					58				
18-Dec-03	2:00:00					50				
18-Dec-03	3:00:00					35				
18-Dec-03	4:00:00					36				
18-Dec-03	5:00:00					41				
18-Dec-03	6:00:00					24				
18-Dec-03	7:00:00					25				
18-Dec-03	8:00:00					29				
18-Dec-03	9:00:00					24				
18-Dec-03	10:00:00					22				
18-Dec-03	11:00:00					15				
18-Dec-03	12:00:00					34				
18-Dec-03	13:00:00		157	116	42	16				
18-Dec-03	14:00:00		167	123	45	22				
18-Dec-03	15:00:00		201	150	51	29	148	110	38	
18-Dec-03	16:00:00		150	110	40	13	145	105	40	
18-Dec-03	17:00:00		157	112	45	14	131	94	36	
18-Dec-03	18:00:00		129	100	29	11	133	103	30	
18-Dec-03	19:00:00		177	137	40	7	158	127	31	
18-Dec-03	20:00:00		190	151	39	14	208	168	40	
18-Dec-03	21:00:00		195	157	38	9	280	218	62	
18-Dec-03	22:00:00		278	212	66	17	186	140	46	
18-Dec-03	23:00:00		314	237	77	18	272	192	80	
19-Dec-03	0:00:00		366	270	96	24	208	155	53	
19-Dec-03	1:00:00		256	185	70	30	290	220	70	
19-Dec-03	2:00:00		284	198	86	25	257	180	77	
19-Dec-03	3:00:00		187	134	53	27	227	145	82	
19-Dec-03	4:00:00		202	155	48	37	312	220	92	
19-Dec-03	5:00:00		180	122	58	26	155	102	53	
19-Dec-03	6:00:00		149	100	49	38	222	145	77	
19-Dec-03	7:00:00		132	92	40	22	194	133	60	
19-Dec-03	8:00:00		147	108	39	24	375	261	114	
19-Dec-03	9:00:00		146	110	36	37	303	210	93	
19-Dec-03	10:00:00		172	128	43	16	170	130	40	
19-Dec-03	11:00:00	43	169	122	47	10	133	95	38	
19-Dec-03	12:00:00	43	183	137	46	13	147	99	48	
19-Dec-03	13:00:00	25	133	92	42	10	95	70	25	
19-Dec-03	14:00:00	16	135	93	41	12	73	52	21	
19-Dec-03	15:00:00	39	137	102	35	4	64	43	21	
19-Dec-03	16:00:00	14	201	132	69	10	72	47	25	
19-Dec-03	17:00:00	19	155	97	58	17	168	119	49	
19-Dec-03	18:00:00	18	152	112	40	2	61	38	22	
19-Dec-03	19:00:00	29	252	188	64	18	107	78	29	
19-Dec-03	20:00:00	22	205	146	59	6	67	44	24	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
19-Dec-03	21:00:00	19	176	120	55	17	113	70	42	
19-Dec-03	22:00:00	51	540	364	175	15	97	59	38	
19-Dec-03	23:00:00	33	349	246	103	14	160	109	50	
20-Dec-03	0:00:00	31	319	235	84	14	88	57	31	
20-Dec-03	1:00:00	25	250	186	64	16	131	92	39	
20-Dec-03	2:00:00	30	295	232	63	20	202	157	45	
20-Dec-03	3:00:00	37	337	278	59	14	197	151	47	
20-Dec-03	4:00:00	31	296	228	69	24	222	168	54	
20-Dec-03	5:00:00	28	357	280	77	30	396	300	96	
20-Dec-03	6:00:00	41	470	384	87	31	639	508	131	
20-Dec-03	7:00:00	31	362	287	75	62	655	526	128	
20-Dec-03	8:00:00	52	444	369	74	49	808	641	167	
20-Dec-03	9:00:00	44	489	401	87	51	678	558	120	
20-Dec-03	10:00:00	18	249	187	61	19	305	223	83	
20-Dec-03	11:00:00	24	272	201	71	13	169	132	37	
20-Dec-03	12:00:00	13	96	63	34	8	68	46	22	
20-Dec-03	13:00:00	21	163	104	59	15	66	42	24	
20-Dec-03	14:00:00	23	179	130	49	10	112	72	40	
20-Dec-03	15:00:00	9	99	63	36	11	66	43	23	
20-Dec-03	16:00:00	21	144	107	37	6	79	55	24	
20-Dec-03	17:00:00	12	195	133	61	20	102	70	32	
20-Dec-03	18:00:00	43	416	335	81		242	194	49	
20-Dec-03	19:00:00	52				19	368	311	57	
20-Dec-03	20:00:00	43				31	609	481	128	
20-Dec-03	21:00:00	34				22	271	228	43	
20-Dec-03	22:00:00	49				25	238	192	47	
20-Dec-03	23:00:00					25	335	287	48	
21-Dec-03	0:00:00	75				27	238	201	37	
21-Dec-03	1:00:00	88				35	375	325	50	
21-Dec-03	2:00:00	114				31	421	354	67	
21-Dec-03	3:00:00	120				35	366	303	63	
21-Dec-03	4:00:00	92				47	408	347	61	
21-Dec-03	5:00:00	107				43	621	507	114	
21-Dec-03	6:00:00	118				38	568	442	126	
21-Dec-03	7:00:00	125				26	382	302	80	
21-Dec-03	8:00:00	135				35	347	273	74	
21-Dec-03	9:00:00	127				35	277	242	35	
21-Dec-03	10:00:00					26	245	188	58	
21-Dec-03	11:00:00					27	283	231	52	
21-Dec-03	12:00:00					25	200	148	52	
21-Dec-03	13:00:00					24	127	93	34	
21-Dec-03	14:00:00					15	113	78	35	
21-Dec-03	15:00:00						173	115	59	
21-Dec-03	16:00:00					9	216	164	52	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
21-Dec-03	17:00:00					26	236	179	57	
21-Dec-03	18:00:00					29	344	285	59	
21-Dec-03	19:00:00					39	522	478	44	
21-Dec-03	20:00:00					45	674	627	47	
21-Dec-03	21:00:00					53	792	744	47	
21-Dec-03	22:00:00					67	912	850	61	
21-Dec-03	23:00:00					80	883	818	64	
22-Dec-03	0:00:00						889	838	51	
22-Dec-03	1:00:00					71	993	929	63	
22-Dec-03	2:00:00					63	822	770	52	
22-Dec-03	3:00:00					119	860	809	51	
22-Dec-03	4:00:00					148	977	930	47	
22-Dec-03	5:00:00					215	879	831	48	
22-Dec-03	6:00:00					224	945	899	45	
22-Dec-03	7:00:00					276	1163	1093	71	
22-Dec-03	8:00:00					333	1286	1191	95	
22-Dec-03	9:00:00					326	892	834	58	
22-Dec-03	10:00:00					276	628	591	37	
22-Dec-03	11:00:00					179	305	272	33	
22-Dec-03	12:00:00					104	115	84	31	
22-Dec-03	13:00:00					31	104	68	36	
22-Dec-03	14:00:00					7	27	14	12	
22-Dec-03	15:00:00					11	32	17	16	
22-Dec-03	16:00:00					13	56	36	20	
22-Dec-03	17:00:00	43	108	72	35	17	140	95	45	
22-Dec-03	18:00:00	29	112	74	38	17	157	107	50	
22-Dec-03	19:00:00	20	186	142	43	12	331	269	62	
22-Dec-03	20:00:00	31	364	314	49	34	414	359	55	
22-Dec-03	21:00:00	39	515	467	48	54	838	785	52	
22-Dec-03	22:00:00	37	614	574	41	43	709	670	40	
22-Dec-03	23:00:00	64	907	849	58	51	879	827	52	
23-Dec-03	0:00:00	81	967	905	62	68	979	923	56	
23-Dec-03	1:00:00	92	1003	938	65	71	995	933	62	
23-Dec-03	2:00:00	60	640	589	51	57	653	610	43	
23-Dec-03	3:00:00	64	643	598	45	48	492	463	29	
23-Dec-03	4:00:00	63	641	598	43	40	583	549	34	
23-Dec-03	5:00:00	59	593	560	33	43	601	569	32	
23-Dec-03	6:00:00	58	524	495	29	39	473	453	19	
23-Dec-03	7:00:00	69	651	617	34	46	599	574	25	
23-Dec-03	8:00:00	85	840	792	48	66	813	766	47	
23-Dec-03	9:00:00	79	783	734	48	69	767	724	43	
23-Dec-03	10:00:00	81	777	728	49	77	845	789	56	
23-Dec-03	11:00:00	54	506	463	43	49	567	513	54	
23-Dec-03	12:00:00	12	69	49	19	15	52	34	18	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Dec-03	13:00:00	19	43	19	24	12	15	6	9	
23-Dec-03	14:00:00	19	35	13	22	8	41	15	26	
23-Dec-03	15:00:00	4	31	15	17	8	16	4	12	
23-Dec-03	16:00:00	20	21	7	13	9				
23-Dec-03	17:00:00	21	45	19	26	22	46	17	29	
23-Dec-03	18:00:00	9	73	41	31	17	62	32	30	
23-Dec-03	19:00:00	24	128	90	38	23	110	74	36	
23-Dec-03	20:00:00	19	56	33	23	11	58	33	26	
23-Dec-03	21:00:00	15	34	17	17	8	24	10	14	
23-Dec-03	22:00:00	16	94	61	33	12	51	27	24	
23-Dec-03	23:00:00	2	75	40	35	12	48	25	23	
24-Dec-03	0:00:00	16	143	103	40	3	84	53	31	
24-Dec-03	1:00:00	8	107	73	34	2	30	18	12	
24-Dec-03	2:00:00	5	148	105	42	4	71	44	27	
24-Dec-03	3:00:00	7	147	98	48	6	87	56	31	
24-Dec-03	4:00:00	22	181	136	45	4	109	79	30	
24-Dec-03	5:00:00	14	97	74	23	12	94	69	24	
24-Dec-03	6:00:00	15	97	69	28	9	57	35	22	
24-Dec-03	7:00:00	26	86	59	27	20	10	4	6	
24-Dec-03	8:00:00	23	145	101	45	12	25	13	12	
24-Dec-03	9:00:00	33	117	85	32	11	19	8	10	
24-Dec-03	10:00:00	49	245	165	80	11	18	7	11	
24-Dec-03	11:00:00	31	229	149	81		37	14	23	
24-Dec-03	12:00:00	15	157	111	46	16	170	93	77	
24-Dec-03	13:00:00	20	103	61	42	13	84	58	26	
24-Dec-03	14:00:00	15	75	47	28	9	228	143	85	
24-Dec-03	15:00:00	4	44	27	16	7	105	58	46	
24-Dec-03	16:00:00	15	47	30	17	8	13	7	6	
24-Dec-03	17:00:00	18	50	34	16	17	43	28	15	
24-Dec-03	18:00:00	6	63	40	23	11	40	23	17	
24-Dec-03	19:00:00	5	40	22	18	6				
24-Dec-03	20:00:00	7	57	35	22	4				
24-Dec-03	21:00:00	6	80	55	24	7				
24-Dec-03	22:00:00	15	86	59	28	6	14	4	10	
24-Dec-03	23:00:00	14	56	36	20	12	9	3	6	
25-Dec-03	0:00:00	20	118	82	37	10	14	6	8	
25-Dec-03	1:00:00	12	104	69	35	12	32	17	15	
25-Dec-03	2:00:00	19	54	35	19	1	8	2	6	
25-Dec-03	3:00:00	9	70	43	27	8	66	37	29	
25-Dec-03	4:00:00	20	125	88	37	14	19	11	8	
25-Dec-03	5:00:00	12	58	38	20	10	1	0	1	
25-Dec-03	6:00:00	18	79	55	24	9	25	14	11	
25-Dec-03	7:00:00	16	51	31	20	12	17	11	7	
25-Dec-03	8:00:00	8	53	34	19	11	4	0	4	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Dec-03	9:00:00	15	74	49	25	10	41	27	14	
25-Dec-03	10:00:00	14	86	64	22	27	255	172	83	
25-Dec-03	11:00:00	10	77	31	46	5	7	3	4	
25-Dec-03	12:00:00	12	46	24	22	10	15	9	6	
25-Dec-03	13:00:00	14	32	20	12	10	9	6	4	
25-Dec-03	14:00:00	10	21	13	8	8	8	5	3	
25-Dec-03	15:00:00	9	21	13	8	7	3	1	2	
25-Dec-03	16:00:00	1	21	11	9	7				
25-Dec-03	17:00:00	11	22	11	12	9	10	2	8	
25-Dec-03	18:00:00	12				14				
25-Dec-03	19:00:00	13	34	19	15	13	22	10	12	
25-Dec-03	20:00:00	24	161	138	23	14	172	151	20	
25-Dec-03	21:00:00	37	236	214	22	24	195	175	20	
25-Dec-03	22:00:00	40	258	236	22	28	251	230	21	
25-Dec-03	23:00:00	26	199	183	16	23	212	196	15	
26-Dec-03	0:00:00	26	174	159	16	27	130	118	12	
26-Dec-03	1:00:00	32	180	161	20	16	121	110	11	
26-Dec-03	2:00:00	38	195	177	18	31	142	128	13	
26-Dec-03	3:00:00	43	217	203	14	33	169	155	14	
26-Dec-03	4:00:00	37	185	167	18	28	95	88	8	
26-Dec-03	5:00:00	29	187	166	21	27	98	91	7	
26-Dec-03	6:00:00	37	151	136	14	22	94	87	7	
26-Dec-03	7:00:00	38	188	158	29	33	116	111	6	
26-Dec-03	8:00:00	44	243	222	21	35	162	154	8	
26-Dec-03	9:00:00	36	234	215	19	35	187	178	8	
26-Dec-03	10:00:00	11	96	71	26	11	43	32	11	
26-Dec-03	11:00:00	24	86	56	30	3	40	26	13	
26-Dec-03	12:00:00	13	27	16	11	8	28	17	11	
26-Dec-03	13:00:00	16	16	8	8	20	36	21	14	
26-Dec-03	14:00:00	12	15	6	9	7	13	6	7	
26-Dec-03	15:00:00	5	16	6	10	12	17	8	9	
26-Dec-03	16:00:00	16	46	24	22	6	25	12	13	
26-Dec-03	17:00:00	4	51	27	23	12	47	25	22	
26-Dec-03	18:00:00	17	108	69	39	14	134	85	49	
26-Dec-03	19:00:00	9	152	125	27	16	104	80	24	
26-Dec-03	20:00:00	16	207	180	26	12	190	162	28	
26-Dec-03	21:00:00	25	220	196	24	20	207	186	21	
26-Dec-03	22:00:00	27	226	198	27	23	207	180	27	
26-Dec-03	23:00:00	29	218	196	22	23	172	151	21	
27-Dec-03	0:00:00	25	167	146	21	18	192	170	22	
27-Dec-03	1:00:00	25	212	194	18	21	172	154	18	
27-Dec-03	2:00:00	27	221	200	21	29	238	209	29	
27-Dec-03	3:00:00	34	224	200	24	23	187	165	23	
27-Dec-03	4:00:00	39	306	275	31	25	208	189	18	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Dec-03	5:00:00	28	290	261	29	25	260	235	26	
27-Dec-03	6:00:00	42	341	311	31	28	338	311	27	
27-Dec-03	7:00:00	49	425	395	30	24	269	248	22	
27-Dec-03	8:00:00	57	476	443	34	42	432	402	30	
27-Dec-03	9:00:00	59	556	521	34	50	532	498	34	
27-Dec-03	10:00:00	11	232	199	33	23	208	181	27	
27-Dec-03	11:00:00	4	151	115	37		49	31	18	
27-Dec-03	12:00:00	18	85	54	32	13	38	22	16	
27-Dec-03	13:00:00	22	76	49	27	13	50	30	21	
27-Dec-03	14:00:00	22	66	39	27	12	43	22	21	
27-Dec-03	15:00:00	14	32	13	19	7	26	9	16	
27-Dec-03	16:00:00	14	32	11	21	12	25	8	17	
27-Dec-03	17:00:00	2	38	13	25	16	23	3	20	
27-Dec-03	18:00:00	26	88	60	28	22	76	51	25	
27-Dec-03	19:00:00	25	205	165	40	16	179	143	36	
27-Dec-03	20:00:00	24	290	248	42	22	257	226	32	
27-Dec-03	21:00:00	30	369	330	39	37	359	325	35	
27-Dec-03	22:00:00	47	518	468	49	31	355	322	33	
27-Dec-03	23:00:00	47	512	461	51	46	380	344	36	
28-Dec-03	0:00:00	54	689	641	48	56	610	572	38	
28-Dec-03	1:00:00	55	459	433	26	42	481	450	31	
28-Dec-03	2:00:00	56	387	354	33	43	331	304	26	
28-Dec-03	3:00:00	44	308	281	27	34	254	232	22	
28-Dec-03	4:00:00	50	511	477	34	55	481	438	43	
28-Dec-03	5:00:00	76	497	467	29	35	411	385	25	
28-Dec-03	6:00:00	71	502	465	38	47	441	380	61	
28-Dec-03	7:00:00	55	429	406	23	47	377	345	33	
28-Dec-03	8:00:00	71	409	381	28	54	459	421	38	
28-Dec-03	9:00:00	68	468	438	30	42	359	339	20	
28-Dec-03	10:00:00	82	597	541	56	66	426	378	47	
28-Dec-03	11:00:00	44	305	261	44	28	186	155	31	
28-Dec-03	12:00:00	35	235	190	45	34	183	145	37	
28-Dec-03	13:00:00	40	76	47	30	31	106	70	36	
28-Dec-03	14:00:00	26	107	63	44	28	72	42	30	
28-Dec-03	15:00:00	33	104	68	36	22	43	18	25	
28-Dec-03	16:00:00	19	119	69	50	23	28	7	20	
28-Dec-03	17:00:00	24	81	56	25	30	41	13	28	
28-Dec-03	18:00:00	36	163	128	35	35	146	108	38	
28-Dec-03	19:00:00	32	398	330	68	33	368	322	46	
28-Dec-03	20:00:00	36	429	387	42	44	438	395	43	
28-Dec-03	21:00:00	55	667	617	50	50	667	628	39	
28-Dec-03	22:00:00	54	676	629	46	51	577	538	39	
28-Dec-03	23:00:00	57	566	523	43	46	543	507	36	
29-Dec-03	0:00:00	64	732	685	47	51	608	573	35	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Dec-03	1:00:00	67	742	700	41	62	750	707	43	
29-Dec-03	2:00:00	73	796	746	49	59	797	737	60	
29-Dec-03	3:00:00	59	812	760	52	54	792	747	46	
29-Dec-03	4:00:00	87	900	826	74	69	806	759	46	
29-Dec-03	5:00:00	69	628	585	44	51	563	531	33	
29-Dec-03	6:00:00	70	631	587	44	65	662	620	42	
29-Dec-03	7:00:00	102	1243	1133	110	68	767	717	50	
29-Dec-03	8:00:00	84	766	719	47	73	761	718	43	
29-Dec-03	9:00:00	78	741	668	73	76	565	540	25	
29-Dec-03	10:00:00	65	477	437	40	36	467	440	27	
29-Dec-03	11:00:00	24	240	208	32	32	229	201	28	
29-Dec-03	12:00:00	32	195	152	43	21	159	124	35	
29-Dec-03	13:00:00	28	52	30	22	16	49	30	19	
29-Dec-03	14:00:00	14	22	9	13	19	36	15	21	
29-Dec-03	15:00:00	9	36	19	17	6	13	5	8	
29-Dec-03	16:00:00	10	35	18	17	15	14	4	10	
29-Dec-03	17:00:00	16	25	12	13	9	7	0	6	
29-Dec-03	18:00:00	14	55	28	27	9	24	9	16	
29-Dec-03	19:00:00	19	63	32	31	12	38	18	20	
29-Dec-03	20:00:00	16	74	44	30	19	73	42	31	
29-Dec-03	21:00:00	22	80	50	31	19	104	67	38	
29-Dec-03	22:00:00	21	55	35	20	17	67	42	25	
29-Dec-03	23:00:00	17	121	83	39	14	119	79	40	
30-Dec-03	0:00:00	15	68	42	26	8	50	33	17	
30-Dec-03	1:00:00		90	58	31	8	27	15	12	
30-Dec-03	2:00:00	4	149	104	45	22	299	218	80	
30-Dec-03	3:00:00	19	236	184	52	35	594	475	119	
30-Dec-03	4:00:00	17	267	212	55	45	674	545	129	
30-Dec-03	5:00:00	27	261	200	61	40	643	518	126	
30-Dec-03	6:00:00	19	290	229	61	37	533	420	113	
30-Dec-03	7:00:00	29	455	375	80	23	286	212	74	
30-Dec-03	8:00:00	15	392	278	115	14	146	84	62	
30-Dec-03	9:00:00	38	280	233	48	13	138	102	36	
30-Dec-03	10:00:00	19	260	190	70	4	89	61	28	
30-Dec-03	11:00:00	4	94	63	31		73	48	25	
30-Dec-03	12:00:00	6	49	29	20	2	54	31	23	
30-Dec-03	13:00:00	13	45	26	19		29	12	17	
30-Dec-03	14:00:00	9	35	19	15	5	21	10	10	
30-Dec-03	15:00:00	13	191	123	67	1	19	6	13	
30-Dec-03	16:00:00	6	155	91	63	3	14	2	12	
30-Dec-03	17:00:00	11	58	31	27	11	21	4	17	
30-Dec-03	18:00:00	16	39	13	25	11	60	32	28	
30-Dec-03	19:00:00	11	175	145	31	14	251	213	38	
30-Dec-03	20:00:00	40	641	571	70	43	562	518	44	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
30-Dec-03	21:00:00	51	816	724	91	22	391	347	43	
30-Dec-03	22:00:00	39	813	714	99	21	340	302	39	
30-Dec-03	23:00:00	44	1115	963	152	14	295	268	27	
31-Dec-03	0:00:00	48	1178	991	187	22	289	261	28	
31-Dec-03	1:00:00	41	964	782	182	25	259	241	18	
31-Dec-03	2:00:00	67	1392	1196	196	32	493	457	36	
31-Dec-03	3:00:00	57	1437	1207	230	37	490	460	30	
31-Dec-03	4:00:00		1327	1096	232	27	370	354	16	
31-Dec-03	5:00:00	44	594	528	66	27	317	305	12	
31-Dec-03	6:00:00	73	704	617	87	23	365	350	15	
31-Dec-03	7:00:00	66	635	575	59	44	425	394	31	
31-Dec-03	8:00:00	60	616	562	53	34	381	359	22	
31-Dec-03	9:00:00	73	790	735	55	64	743	696	47	
31-Dec-03	10:00:00	68	784	708	76	71	748	673	75	
31-Dec-03	11:00:00	54	431	370	61	22	353	309	44	
31-Dec-03	12:00:00	17	124	93	31	20	162	121	41	
31-Dec-03	13:00:00	27	94	64	30	29	171	140	31	
31-Dec-03	14:00:00	23	100	74	26	16	129	105	24	
31-Dec-03	15:00:00	10	100	67	33	9	88	61	27	
31-Dec-03	16:00:00	22	126	86	40	6	96	67	29	
31-Dec-03	17:00:00	17	185	130	56	22	130	100	30	
31-Dec-03	18:00:00	22	87	49	38	19	126	99	27	
31-Dec-03	19:00:00	34	408	364	44	33	165	143	23	
31-Dec-03	20:00:00		640	593	47	34	352	329	23	
31-Dec-03	21:00:00	47	801	729	73	38	543	521	22	
31-Dec-03	22:00:00	78	814	729	84	38	584	564	21	
31-Dec-03	23:00:00	89	738	659	78	35	593	571	22	
1-Jan-04	0:00:00	95	845	777	68	52	667	643	25	
1-Jan-04	1:00:00	87	611	559	52	41	893	860	33	
1-Jan-04	2:00:00	106	594	530	65	54	542	522	20	
1-Jan-04	3:00:00	121	767	710	58	84	742	705	37	
1-Jan-04	4:00:00	104	565	506	59	42	775	741	34	
1-Jan-04	5:00:00	108	759	695	64	63	662	631	31	
1-Jan-04	6:00:00	113	661	584	78	57	906	869	36	
1-Jan-04	7:00:00	107	692	575	117	55	927	889	38	
1-Jan-04	8:00:00	111	546	489	57	51	548	529	18	
1-Jan-04	9:00:00	98	556	468	88	40	667	638	29	
1-Jan-04	10:00:00	65	446	375	71	46	427	407	20	
1-Jan-04	11:00:00	40	255	210	45	28	316	294	22	
1-Jan-04	12:00:00	33	123	90	33	27	207	183	24	
1-Jan-04	13:00:00	27	101	68	32	17	133	108	25	
1-Jan-04	14:00:00	19	107	71	36	24	119	92	27	
1-Jan-04	15:00:00	22	38	18	21	26	116	87	29	
1-Jan-04	16:00:00	27	49	26	22	20	85	57	28	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-Jan-04	17:00:00	32	93	53	40	24	90	62	28	
1-Jan-04	18:00:00	31	207	141	66	24	113	87	27	
1-Jan-04	19:00:00	40	220	176	45	36	188	162	26	
1-Jan-04	20:00:00	40	320	278	42		294	272	23	
1-Jan-04	21:00:00	45	352	315	38	33	261	242	19	
1-Jan-04	22:00:00	50	515	473	42	44	322	303	19	
1-Jan-04	23:00:00	55	570	531	39	46	447	429	18	
2-Jan-04	0:00:00	59	591	549	42	52	498	479	19	
2-Jan-04	1:00:00	54	566	521	45	55	495	477	18	
2-Jan-04	2:00:00	43	462	426	36	39	438	424	13	
2-Jan-04	3:00:00	53	586	538	48	48	450	431	19	
2-Jan-04	4:00:00	49	480	425	55	39	472	455	17	
2-Jan-04	5:00:00	65	530	476	54	51	321	303	18	
2-Jan-04	6:00:00	62	492	439	53	50	414	396	18	
2-Jan-04	7:00:00	32	141	100	41	33	301	283	18	
2-Jan-04	8:00:00	46	434	349	84	26	133	116	17	
2-Jan-04	9:00:00	44	216	189	27	43	139	122	17	
2-Jan-04	10:00:00	51	243	212	31	48	222	188	34	
2-Jan-04	11:00:00	37	209	163	46	32	152	121	31	
2-Jan-04	12:00:00	36	153	114	38	25	87	62	25	
2-Jan-04	13:00:00	20	101	70	31	25	83	51	32	
2-Jan-04	14:00:00	32	89	59	29	42	141	105	36	
2-Jan-04	15:00:00	37	189	150	39	19	112	83	29	
2-Jan-04	16:00:00	38	134	94	41	26	61	35	26	
2-Jan-04	17:00:00	27	139	100	39	31	96	66	30	
2-Jan-04	18:00:00	41	165	122	43	41	134	101	32	
2-Jan-04	19:00:00	40	173	142	31	28	158	128	30	
2-Jan-04	20:00:00	43	235	205	30	34	205	182	23	
2-Jan-04	21:00:00	36	216	175	41	41	203	167	36	
2-Jan-04	22:00:00	39	179	134	45	26	149	107	42	
2-Jan-04	23:00:00	15	71	47	24	33	151	104	46	
3-Jan-04	0:00:00	17	46	28	19		118	76	42	
3-Jan-04	1:00:00	19	113	78	36	18	142	100	42	
3-Jan-04	2:00:00	25	137	105	32	18	378	265	113	
3-Jan-04	3:00:00	32	151	110	41	42	600	415	185	
3-Jan-04	4:00:00	26	116	88	28	32	764	595	169	
3-Jan-04	5:00:00	28	109	80	29	32	651	479	172	
3-Jan-04	6:00:00	28	66	42	24	35	887	622	265	
3-Jan-04	7:00:00	21	31	15	16	29	625	451	175	
3-Jan-04	8:00:00	13	60	39	21	20	155	105	50	
3-Jan-04	9:00:00	23	76	49	28	26	140	100	40	
3-Jan-04	10:00:00	23	52	29	23	19	81	54	27	
3-Jan-04	11:00:00	25	64	40	24	18	47	25	22	
3-Jan-04	12:00:00	13	77	51	26	29	76	52	24	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-Jan-04	13:00:00	20	53	32	21	40	67	43	25	
3-Jan-04	14:00:00	21	70	46	23	35	62	38	24	
3-Jan-04	15:00:00		53	34	19	31	56	34	22	
3-Jan-04	16:00:00	19	60	37	23	35	52	27	24	
3-Jan-04	17:00:00	20	72	47	25	39	89	56	33	
3-Jan-04	18:00:00	19	64	39	25	36	80	51	29	
3-Jan-04	19:00:00	26	83	56	27	43	127	94	34	
3-Jan-04	20:00:00	23	115	83	32	45	161	118	43	
3-Jan-04	21:00:00	30	138	98	40	42	150	113	37	
3-Jan-04	22:00:00	21	135	98	37	39	211	160	51	
3-Jan-04	23:00:00	27	163	123	40	48	224	173	51	
4-Jan-04	0:00:00	24	160	120	40	69	276	215	61	
4-Jan-04	1:00:00	26	153	115	37	105	344	282	61	
4-Jan-04	2:00:00	14	151	105	46	97	281	221	60	
4-Jan-04	3:00:00	24	144	105	39	93	242	189	53	
4-Jan-04	4:00:00	15	113	79	35	91	172	130	43	
4-Jan-04	5:00:00	17	111	76	35	89	176	132	44	
4-Jan-04	6:00:00	23	118	86	32	84	180	139	41	
4-Jan-04	7:00:00	18	103	73	30	86	197	152	45	
4-Jan-04	8:00:00	19	118	87	31	122	695	562	133	
4-Jan-04	9:00:00	14	91	62	30	86	292	213	79	
4-Jan-04	10:00:00	12	75	51	23	93	159	114	44	
4-Jan-04	11:00:00	16	95	66	30	79	124	87	37	
4-Jan-04	12:00:00	17	72	41	31	76	55	28	27	
4-Jan-04	13:00:00	12	59	41	18	78	55	35	20	
4-Jan-04	14:00:00	9	57	38	19	81	43	27	15	
4-Jan-04	15:00:00	25	52	34	18	76	42	26	16	
4-Jan-04	16:00:00	9	38	23	15	75	28	14	14	
4-Jan-04	17:00:00	9	66	41	25	62	35	19	16	
4-Jan-04	18:00:00	10	70	43	27	45	57	33	24	
4-Jan-04	19:00:00	14	109	73	36	17	86	56	30	
4-Jan-04	20:00:00	15	88	58	30	14	105	72	33	
4-Jan-04	21:00:00	15	76	49	27	15	137	98	39	
4-Jan-04	22:00:00	15	99	67	32	21	175	129	45	
4-Jan-04	23:00:00	16	96	62	33	8	93	63	30	
5-Jan-04	0:00:00	22	86	57	29	12	94	66	29	
5-Jan-04	1:00:00	22	87	58	29	21	90	62	28	
5-Jan-04	2:00:00	14	100	69	31	8	101	72	28	
5-Jan-04	3:00:00	29	94	65	30	22	102	68	34	
5-Jan-04	4:00:00	24	100	69	31	19	117	84	33	
5-Jan-04	5:00:00	16	51	31	20	12	104	70	34	
5-Jan-04	6:00:00	15	223	167	57	4	28	13	16	
5-Jan-04	7:00:00	16	302	180	123	3	21	5	16	
5-Jan-04	8:00:00	26	283	186	96	12	214	133	81	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-Jan-04	9:00:00	26	249	172	77	16	218	146	73	
5-Jan-04	10:00:00	19	123	87	36	11	242	176	66	
5-Jan-04	11:00:00	6	74	50	24	5	93	66	27	
5-Jan-04	12:00:00	6	133	102	31		58	40	18	
5-Jan-04	13:00:00	6	77	57	19	7	158	110	47	
5-Jan-04	14:00:00	5	182	108	74		76	55	21	
5-Jan-04	15:00:00		83	58	26	1	79	49	30	
5-Jan-04	16:00:00	13	54	36	18	10	41	22	18	
5-Jan-04	17:00:00	13	62	45	17	14	58	42	16	
5-Jan-04	18:00:00	18	265	184	81	6	41	28	13	
5-Jan-04	19:00:00	16	184	129	56	13	111	86	25	
5-Jan-04	20:00:00	12	132	97	35	14	80	58	22	
5-Jan-04	21:00:00	32	525	355	170	7	33	20	13	
5-Jan-04	22:00:00	46	485	336	149	13	158	106	52	
5-Jan-04	23:00:00	63	575	418	157	5	231	153	78	
6-Jan-04	0:00:00	79	678	500	177	13	227	124	102	
6-Jan-04	1:00:00	79	687	502	186	3	150	98	52	
6-Jan-04	2:00:00	97	716	548	168	31	1113	797	316	
6-Jan-04	3:00:00	98	750	532	218	31	729	517	211	
6-Jan-04	4:00:00	66	503	378	125	18	355	230	125	
6-Jan-04	5:00:00	69	495	349	146	16	304	216	88	
6-Jan-04	6:00:00	50	328	255	73	19	295	210	85	
6-Jan-04	7:00:00	39	293	211	82	22	440	292	149	
6-Jan-04	8:00:00	48	322	231	91		564	406	158	
6-Jan-04	9:00:00	32	262	205	57	22	521	386	135	
6-Jan-04	10:00:00	11	195	142	53	13	227	163	64	
6-Jan-04	11:00:00	16	171	121	50	17	89	60	29	
6-Jan-04	12:00:00	14	127	95	32	13	62	45	16	
6-Jan-04	13:00:00	16	127	88	39	6	73	53	19	
6-Jan-04	14:00:00	21	142	98	44	14	54	35	19	
6-Jan-04	15:00:00	12	171	128	43	8	88	63	26	
6-Jan-04	16:00:00	20	222	154	68	11	75	51	24	
6-Jan-04	17:00:00	13	243	180	63	17	118	74	44	
6-Jan-04	18:00:00	30	466	337	129	9	74	48	26	
6-Jan-04	19:00:00	9	157	109	47	7	84	58	26	
6-Jan-04	20:00:00	20	273	193	80	6	69	42	26	
6-Jan-04	21:00:00	33	526	358	168	8	109	73	36	
6-Jan-04	22:00:00	55	652	463	190	14	198	131	67	
6-Jan-04	23:00:00	55	554	403	151	28	377	270	106	
7-Jan-04	0:00:00	42	544	395	149	28	410	310	99	
7-Jan-04	1:00:00	56	551	399	153	27	314	230	84	
7-Jan-04	2:00:00	45	479	335	144	22	252	176	76	
7-Jan-04	3:00:00	33	575	405	170	22	234	170	64	
7-Jan-04	4:00:00	48	584	441	142	29	219	144	75	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-Jan-04	5:00:00	43	361	278	83	27	268	199	68	
7-Jan-04	6:00:00	43	462	355	107	39	221	171	50	
7-Jan-04	7:00:00	77	873	649	224	35	245	195	50	
7-Jan-04	8:00:00	56	581	453	128	40	302	220	82	
7-Jan-04	9:00:00	74	1012	783	229	35	409	312	97	
7-Jan-04	10:00:00	14	350	256	94	13	213	138	75	
7-Jan-04	11:00:00	12	146	95	51	7	161	92	69	
7-Jan-04	12:00:00	19	105	64	41	5	91	55	36	
7-Jan-04	13:00:00	15	118	83	36	15	78	53	25	
7-Jan-04	14:00:00	11	118	81	38	5	81	47	33	
7-Jan-04	15:00:00		61	38	23	2	57	36	21	
7-Jan-04	16:00:00	9	70	46	24	19	142	96	46	
7-Jan-04	17:00:00	13	72	41	31	25	175	117	58	
7-Jan-04	18:00:00	12				41	192	126	65	
7-Jan-04	19:00:00					18	327	240	88	
7-Jan-04	20:00:00	10				21	262	195	67	
7-Jan-04	21:00:00	28				31	451	374	77	
7-Jan-04	22:00:00	22				30	379	305	73	
7-Jan-04	23:00:00	49				32	418	351	67	
8-Jan-04	0:00:00	31				25	402	353	49	
8-Jan-04	1:00:00	38				26	333	288	45	
8-Jan-04	2:00:00	51				39	427	375	53	
8-Jan-04	3:00:00	57				23	273	227	46	
8-Jan-04	4:00:00	49				29	255	213	42	
8-Jan-04	5:00:00	66				26	253	186	67	
8-Jan-04	6:00:00	62				29	194	152	42	
8-Jan-04	7:00:00	54				35	305	233	72	
8-Jan-04	8:00:00	54				40	270	205	65	
8-Jan-04	9:00:00	86				19	176	126	50	
8-Jan-04	10:00:00	57				21	102	71	31	
8-Jan-04	11:00:00	34				23	126	91	35	
8-Jan-04	12:00:00	37				26	152	108	44	
8-Jan-04	13:00:00	47				30	165	124	41	
8-Jan-04	14:00:00	35				25	155	114	41	
8-Jan-04	15:00:00	28				33	152	108	44	
8-Jan-04	16:00:00	35				26	175	132	43	
8-Jan-04	17:00:00	23				27	130	87	43	
8-Jan-04	18:00:00	31				28	115	68	47	
8-Jan-04	19:00:00					33	445	324	121	
8-Jan-04	20:00:00					38	539	392	147	
8-Jan-04	21:00:00					25	138	92	46	
8-Jan-04	22:00:00					25	164	117	47	
8-Jan-04	23:00:00					27	129	93	36	
9-Jan-04	0:00:00					24	125	85	40	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-Jan-04	1:00:00					19	328	205	123	
9-Jan-04	2:00:00					34	221	136	85	
9-Jan-04	3:00:00					23	103	60	43	
9-Jan-04	4:00:00					15	110	69	42	
9-Jan-04	5:00:00					20	118	75	43	
9-Jan-04	6:00:00					38	389	271	118	
9-Jan-04	7:00:00					27	374	257	117	
9-Jan-04	8:00:00					29	233	180	53	
9-Jan-04	9:00:00					27	150	109	42	
9-Jan-04	10:00:00					24	92	67	25	
9-Jan-04	11:00:00					32	104	67	37	
9-Jan-04	12:00:00					17	115	82	32	
9-Jan-04	13:00:00					27	95	65	30	
9-Jan-04	14:00:00					17	63	39	25	
9-Jan-04	15:00:00					12	85	54	31	
9-Jan-04	16:00:00					20	68	43	24	
9-Jan-04	17:00:00	150				59	50	30	19	
9-Jan-04	18:00:00	84	155	110	45	13	38	12	26	
9-Jan-04	19:00:00	69	645	454	191	7	43	26	17	
9-Jan-04	20:00:00	68	727	552	175	10	36	16	20	
9-Jan-04	21:00:00	70	681	532	149	16	23	10	13	
9-Jan-04	22:00:00	70	671	494	177	20	81	45	36	
9-Jan-04	23:00:00		718	531	187	55	510	330	180	
10-Jan-04	0:00:00	65	576	433	143	60	477	309	168	
10-Jan-04	1:00:00	89	813	580	233	83	743	418	325	
10-Jan-04	2:00:00	98	919	671	248		821	617	204	
10-Jan-04	3:00:00	92	835	635	199		878	568	310	
10-Jan-04	4:00:00	95	974	755	218		859	604	256	
10-Jan-04	5:00:00	115	1093	838	255		1046	763	283	
10-Jan-04	6:00:00	87	867	676	191		898	646	252	
10-Jan-04	7:00:00	89	873	658	215		817	538	279	
10-Jan-04	8:00:00	78	728	530	198		646	453	193	
10-Jan-04	9:00:00	56	604	455	148		233	143	90	
10-Jan-04	10:00:00	61	483	354	129		90	45	44	
10-Jan-04	11:00:00	41	354	275	79		59	36	23	
10-Jan-04	12:00:00	21	132	90	42		41	26	15	
10-Jan-04	13:00:00	12	96	64	31		50	33	17	
10-Jan-04	14:00:00	24	126	87	39		28	17	10	
10-Jan-04	15:00:00	2	86	64	22		141	95	46	
10-Jan-04	16:00:00	17	141	90	51		46	30	16	
10-Jan-04	17:00:00	23	258	185	73		118	81	37	
10-Jan-04	18:00:00	22	277	202	75		171	113	58	
10-Jan-04	19:00:00	28	353	274	80		223	157	66	
10-Jan-04	20:00:00	34	347	281	66		135	92	42	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
10-Jan-04	21:00:00	34	356	282	74		178	118	60	
10-Jan-04	22:00:00	41	614	489	125		204	156	48	
10-Jan-04	23:00:00	42	723	616	107		219	163	56	
11-Jan-04	0:00:00	62	563	489	73		248	196	52	
11-Jan-04	1:00:00	48	788	657	132		216	170	46	
11-Jan-04	2:00:00	70	572	496	76		364	312	51	
11-Jan-04	3:00:00	60	706	637	69		528	456	72	
11-Jan-04	4:00:00	74	738	665	73		500	439	61	
11-Jan-04	5:00:00	67	701	601	100		414	354	60	
11-Jan-04	6:00:00	67	742	656	87		619	546	73	
11-Jan-04	7:00:00	67	816	709	107		539	474	65	
11-Jan-04	8:00:00	82	674	606	67		739	646	94	
11-Jan-04	9:00:00	91	664	596	68		670	566	105	
11-Jan-04	10:00:00	62	813	624	189		505	412	93	
11-Jan-04	11:00:00	42	229	188	41		295	217	78	
11-Jan-04	12:00:00	27	125	95	30		186	140	46	
11-Jan-04	13:00:00	25	141	105	36		163	122	41	
11-Jan-04	14:00:00	15	135	95	40		98	69	28	
11-Jan-04	15:00:00	18	151	105	47	11	98	58	40	
11-Jan-04	16:00:00	23	160	116	44	29	166	123	43	
11-Jan-04	17:00:00	23	183	133	49	30	150	110	40	
11-Jan-04	18:00:00	29	186	132	54	23	188	134	54	
11-Jan-04	19:00:00	24	159	108	51	14	186	133	53	
11-Jan-04	20:00:00	8	212	151	61	29	360	281	79	
11-Jan-04	21:00:00	32	355	288	67	34	495	405	90	
11-Jan-04	22:00:00	43	391	319	73	46	589	482	106	
11-Jan-04	23:00:00	27	247	182	65	33	493	371	122	
12-Jan-04	0:00:00	36	310	239	71		498	414	84	
12-Jan-04	1:00:00	30	264	196	68	39	433	339	93	
12-Jan-04	2:00:00	28	306	235	71	31	443	356	87	
12-Jan-04	3:00:00	37	334	265	68	43	411	342	68	
12-Jan-04	4:00:00	39	337	276	61	42	469	376	93	
12-Jan-04	5:00:00	33	237	171	66	69	322	260	62	
12-Jan-04	6:00:00	23	209	155	54	71	350	266	84	
12-Jan-04	7:00:00	24	179	131	48	77	247	204	43	
12-Jan-04	8:00:00	42	412	366	47	81	358	315	43	
12-Jan-04	9:00:00	79	602	545	56	138	707	644	63	
12-Jan-04	10:00:00	15	153	117	37	140	244	183	61	
12-Jan-04	11:00:00	24	120	88	32	136	122	89	33	
12-Jan-04	12:00:00	15	89	63	27	134	102	70	32	
12-Jan-04	13:00:00	20	81	52	28	134	60	38	21	
12-Jan-04	14:00:00	25	81	53	28	131	66	43	23	
12-Jan-04	15:00:00	8	83	54	29	128	63	38	25	
12-Jan-04	16:00:00	17	82	50	32	144	94	61	33	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Jan-04	17:00:00	24	149	102	47	157	140	94	47	
12-Jan-04	18:00:00	35	157	111	46	155	203	147	56	
12-Jan-04	19:00:00	36	419	367	53	164	393	331	62	
12-Jan-04	20:00:00	57	696	615	82	178	687	605	82	
12-Jan-04	21:00:00	68	1063	984	79	134	946	864	82	
12-Jan-04	22:00:00	96	1260	1169	91	169	976	913	63	
12-Jan-04	23:00:00	108	1646	1505	141	181	1106	1016	90	
13-Jan-04	0:00:00	95	1186	1088	98	204	1040	951	89	
13-Jan-04	1:00:00	96	1222	1133	88	219	1302	1214	88	
13-Jan-04	2:00:00	94	1071	953	118	155	855	791	64	
13-Jan-04	3:00:00	72	1008	909	99	118	941	882	59	
13-Jan-04	4:00:00	109	1289	1156	134	85	822	743	79	
13-Jan-04	5:00:00	95	1022	900	122	57	571	515	57	
13-Jan-04	6:00:00	67	685	618	67	63	545	495	50	
13-Jan-04	7:00:00	101	1001	933	68	78	875	814	61	
13-Jan-04	8:00:00	120	1139	1049	90	98	979	912	68	
13-Jan-04	9:00:00	129	1229	1126	103	110	1024	939	85	
13-Jan-04	10:00:00	89	687	615	73	78	657	564	92	
13-Jan-04	11:00:00	161	625	524	101	58	487	398	89	
13-Jan-04	12:00:00	15	87	60	27	20	83	58	26	
13-Jan-04	13:00:00	18	101	72	29	18	92	62	29	
13-Jan-04	14:00:00	24	161	120	41	16	106	72	35	
13-Jan-04	15:00:00	20	194	137	57	23	100	67	33	
13-Jan-04	16:00:00	30	181	124	57	15	144	98	46	
13-Jan-04	17:00:00	19	160	110	50	15	145	100	46	
13-Jan-04	18:00:00	9	159	107	52	14	110	70	40	
13-Jan-04	19:00:00	41	572	503	69	14	445	388	57	
13-Jan-04	20:00:00	34	393	321	72	37	576	499	76	
13-Jan-04	21:00:00	38	624	557	68	49	692	622	70	
13-Jan-04	22:00:00	42	693	642	51	48	835	756	79	
13-Jan-04	23:00:00	49	920	839	81	77	1160	1059	101	
14-Jan-04	0:00:00	66	1114	1033	81	72	1060	947	113	
14-Jan-04	1:00:00	92	1220	1129	91	79	1141	1013	129	
14-Jan-04	2:00:00	78	1062	984	78	78	982	898	84	
14-Jan-04	3:00:00	85	1192	1097	96	80	1025	927	98	
14-Jan-04	4:00:00	89	1022	934	88	67	823	757	66	
14-Jan-04	5:00:00	89	1181	1084	97	70	937	845	93	
14-Jan-04	6:00:00	91	1212	1110	103	111	1079	986	92	
14-Jan-04	7:00:00	109	1230	1108	122	94	1155	1063	93	
14-Jan-04	8:00:00	111	1201	1108	93	83	1046	971	75	
14-Jan-04	9:00:00	112	1047	952	95	68	770	701	69	
14-Jan-04	10:00:00	72	693	608	86	64	755	641	115	
14-Jan-04	11:00:00	16	211	173	38	62	735	549	186	
14-Jan-04	12:00:00	26	166	126	40	27	214	160	54	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Jan-04	13:00:00	25	155	119	36	17	158	114	44	
14-Jan-04	14:00:00	17	136	105	31	16	145	95	50	
14-Jan-04	15:00:00	20	149	107	42	12	108	72	36	
14-Jan-04	16:00:00	17	100	70	30	18	69	44	25	
14-Jan-04	17:00:00	13	93	60	33	12	83	48	35	
14-Jan-04	18:00:00	27	143	100	43	16	98	59	39	
14-Jan-04	19:00:00	27	182	134	48	15	121	80	41	
14-Jan-04	20:00:00	19	130	81	50	14	130	83	47	
14-Jan-04	21:00:00	21	195	138	57	20	147	103	45	
14-Jan-04	22:00:00	26	156	108	47	25	133	91	42	
14-Jan-04	23:00:00	25	98	61	37	20	220	153	68	
15-Jan-04	0:00:00	21	165	118	47	28	215	164	51	
15-Jan-04	1:00:00	30	179	130	49	37	197	136	61	
15-Jan-04	2:00:00	19	124	87	38	21	164	111	52	
15-Jan-04	3:00:00	24	105	71	34	29	229	148	81	
15-Jan-04	4:00:00	15	78	49	29	20	209	143	65	
15-Jan-04	5:00:00	7	109	70	39	22	324	235	89	
15-Jan-04	6:00:00	15	173	120	53	11	111	78	33	
15-Jan-04	7:00:00	24	292	197	95	14	118	75	43	
15-Jan-04	8:00:00	37	402	297	105	16	100	61	39	
15-Jan-04	9:00:00	20	257	179	78	18	120	74	47	
15-Jan-04	10:00:00	27	187	133	55	7	171	111	60	
15-Jan-04	11:00:00	17	145	98	47	8	68	42	26	
15-Jan-04	12:00:00	17	53	36	17	15	31	19	12	
15-Jan-04	13:00:00	18	38	24	14	11	51	22	29	
15-Jan-04	14:00:00	12	76	47	29	14	25	16	9	
15-Jan-04	15:00:00	14	64	33	32	6	34	20	15	
15-Jan-04	16:00:00	16	39	22	17	11	82	45	37	
15-Jan-04	17:00:00	15	53	29	24	25	194	104	90	
15-Jan-04	18:00:00	22	120	78	41	21	178	105	72	
15-Jan-04	19:00:00	15	254	207	47	18	246	197	49	
15-Jan-04	20:00:00		429	378	51	21	253	215	38	
15-Jan-04	21:00:00	21	309	256	53	14	172	128	44	
15-Jan-04	22:00:00	20	307	245	62	11	134	95	39	
15-Jan-04	23:00:00	22	270	216	55	17	140	102	38	
16-Jan-04	0:00:00	16	207	163	44	10	87	57	30	
16-Jan-04	1:00:00	21	304	263	41	17	236	191	45	
16-Jan-04	2:00:00	39	473	428	45	13	216	181	35	
16-Jan-04	3:00:00	46	567	502	64	45	660	554	106	
16-Jan-04	4:00:00	58	784	695	89	37	668	567	101	
16-Jan-04	5:00:00	53	637	591	46	40	852	746	107	
16-Jan-04	6:00:00	56	646	592	54	43	767	663	104	
16-Jan-04	7:00:00	48	517	476	41	52	887	753	133	
16-Jan-04	8:00:00	35	336	299	37	48	1009	903	106	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Jan-04	9:00:00	30	271	223	48	20	592	504	88	
16-Jan-04	10:00:00	25	227	150	77	11	91	67	23	
16-Jan-04	11:00:00	5	65	39	26	7	52	34	18	
16-Jan-04	12:00:00	12	121	71	50	5	58	35	23	
16-Jan-04	13:00:00	23	64	41	23	8	51	30	22	
16-Jan-04	14:00:00	34	121	81	40	14	49	30	19	
16-Jan-04	15:00:00	20	111	66	44	7	72	43	29	
16-Jan-04	16:00:00	21	136	96	40	9	59	34	25	
16-Jan-04	17:00:00	15	83	44	39	11	48	25	23	
16-Jan-04	18:00:00	30	224	167	57	12	118	81	37	
16-Jan-04	19:00:00	31	394	343	52	28	275	234	41	
16-Jan-04	20:00:00	39	499	448	51	26	352	292	61	
16-Jan-04	21:00:00	37	516	471	45	24	293	259	34	
16-Jan-04	22:00:00	37	519	473	46	30	301	269	32	
16-Jan-04	23:00:00	38	543	491	53	29	331	301	30	
17-Jan-04	0:00:00	66	566	491	75	29	306	275	32	
17-Jan-04	1:00:00	42	465	424	42	22	261	232	29	
17-Jan-04	2:00:00	53	619	560	60	26	276	254	23	
17-Jan-04	3:00:00	54	537	489	48	32	323	289	35	
17-Jan-04	4:00:00	50	548	494	54	36	421	380	41	
17-Jan-04	5:00:00	42	459	390	68	22	240	198	41	
17-Jan-04	6:00:00	45	485	385	99	14	139	110	29	
17-Jan-04	7:00:00	40	397	300	97	12	151	110	42	
17-Jan-04	8:00:00	41	317	262	55	27	209	160	49	
17-Jan-04	9:00:00	26	363	290	73	18	162	123	39	
17-Jan-04	10:00:00	20	241	173	68		89	63	25	
17-Jan-04	11:00:00	29	261	192	70	25	172	124	48	
17-Jan-04	12:00:00	33	227	176	52	23	187	149	38	
17-Jan-04	13:00:00	28	194	146	48	21	137	100	37	
17-Jan-04	14:00:00	30	177	134	43	27	145	105	40	
17-Jan-04	15:00:00	30	147	104	43	33	114	75	39	
17-Jan-04	16:00:00	40	120	77	43	24	118	79	39	
17-Jan-04	17:00:00	30	97	66	31	30	69	43	26	
17-Jan-04	18:00:00	49	212	165	47	33	72	44	28	
17-Jan-04	19:00:00	39	199	150	49	28	107	71	36	
17-Jan-04	20:00:00	33	143	106	37	35	127	87	40	
17-Jan-04	21:00:00	41	258	193	65	49	357	266	91	
17-Jan-04	22:00:00	36	160	118	42	44	222	159	63	
17-Jan-04	23:00:00	41	277	217	60	60	282	188	95	
18-Jan-04	0:00:00	58	282	216	66	41	92	56	36	
18-Jan-04	1:00:00	57	329	264	65	38	135	84	51	
18-Jan-04	2:00:00	54	419	276	143	47	181	119	62	
18-Jan-04	3:00:00	61	340	246	94	41	140	99	41	
18-Jan-04	4:00:00	42	270	214	56	39	254	165	90	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Jan-04	5:00:00	44	320	260	60	34	188	138	50	
18-Jan-04	6:00:00	53	437	342	95	33	226	150	76	
18-Jan-04	7:00:00	35	385	311	74	23	164	109	55	
18-Jan-04	8:00:00	36	385	288	97	26	152	109	43	
18-Jan-04	9:00:00	29	135	94	40	40	324	264	60	
18-Jan-04	10:00:00	24	99	68	32	52	495	379	115	
18-Jan-04	11:00:00	24	156	116	39	61	470	330	140	
18-Jan-04	12:00:00	32	203	159	44	65	607	420	187	
18-Jan-04	13:00:00	22	178	138	40	57	527	348	179	
18-Jan-04	14:00:00	11	127	90	37	11	175	132	42	
18-Jan-04	15:00:00	23	230	168	62	14	99	71	28	
18-Jan-04	16:00:00	6	155	122	34	1	107	82	25	
18-Jan-04	17:00:00	8	161	123	38	6	68	53	15	
18-Jan-04	18:00:00	15	551	411	141		60	39	21	
18-Jan-04	19:00:00	16	335	240	95	3	45	22	23	
18-Jan-04	20:00:00	27	268	200	68	15	42	24	18	
18-Jan-04	21:00:00	58	489	366	122	4	23	7	16	
18-Jan-04	22:00:00	53	494	357	138	12	26	10	17	
18-Jan-04	23:00:00	62	693	508	185	11	25	9	16	
19-Jan-04	0:00:00	46	420	314	106	15	39	22	17	
19-Jan-04	1:00:00	62	775	570	206	15	25	9	17	
19-Jan-04	2:00:00	51	962	673	288	10	33	14	19	
19-Jan-04	3:00:00	88	1532	1119	412	19	16	5	11	
19-Jan-04	4:00:00	128	1761	1359	402	11	13	2	11	
19-Jan-04	5:00:00	141	1782	1428	354	17				
19-Jan-04	6:00:00	131	1767	1389	378	18	34	18	16	
19-Jan-04	7:00:00	120	1626	1336	291	11	19	7	11	
19-Jan-04	8:00:00	63	1073	751	322	10	9	2	7	
19-Jan-04	9:00:00	69	1106	770	336	9	55	25	30	
19-Jan-04	10:00:00	73	1336	947	390	14	21	10	12	
19-Jan-04	11:00:00	30	421	287	134	13	44	27	17	
19-Jan-04	12:00:00	14	119	90	30	4	27	15	11	
19-Jan-04	13:00:00	25	176	116	60	16	27	16	11	
19-Jan-04	14:00:00	27	159	108	51	17	58	35	24	
19-Jan-04	15:00:00	31	672	427	245	6	23	15	9	
19-Jan-04	16:00:00	28	294	219	75	11	37	25	12	
19-Jan-04	17:00:00	52	1147	861	285	11	31	19	13	
19-Jan-04	18:00:00	30	209	150	59	13	78	44	34	
19-Jan-04	19:00:00	36	723	540	182	15	65	37	29	
19-Jan-04	20:00:00	85	1943	1567	376	9	91	50	40	
19-Jan-04	21:00:00	95	1949	1534	415	14	138	88	50	
19-Jan-04	22:00:00	99	1832	1323	509	14	98	52	46	
19-Jan-04	23:00:00	100	1880	1392	488	13	98	62	36	
20-Jan-04	0:00:00	95	1888	1529	360	16	99	64	35	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-Jan-04	1:00:00	104	1861	1416	445	14	72	42	31	
20-Jan-04	2:00:00	125	2017	1545	472	20	459	280	179	
20-Jan-04	3:00:00	107	1756	1449	307	18	303	196	107	
20-Jan-04	4:00:00	81	1333	1116	216	22	178	136	42	
20-Jan-04	5:00:00	117	1908	1624	284	31	569	410	159	
20-Jan-04	6:00:00	133	1543	1258	285	17	217	137	80	
20-Jan-04	7:00:00	89	1465	1191	273	26	483	311	172	
20-Jan-04	8:00:00	77	1334	1054	280	26	285	217	67	
20-Jan-04	9:00:00	92	1378	1057	321	30	501	353	149	
20-Jan-04	10:00:00	30	338	245	93	7	232	133	99	
20-Jan-04	11:00:00	15	152	111	42	6	124	76	48	
20-Jan-04	12:00:00	12	100	71	29	12	36	25	11	
20-Jan-04	13:00:00	20	76	53	23	12	41	28	14	
20-Jan-04	14:00:00	17	104	73	32	17	41	26	16	
20-Jan-04	15:00:00	13	172	108	64	13	71	46	25	
20-Jan-04	16:00:00	22	147	102	45	13	86	58	28	
20-Jan-04	17:00:00	24	200	115	86	16	122	84	38	
20-Jan-04	18:00:00	14	340	254	85	24	106	72	34	
20-Jan-04	19:00:00	39	380	290	90	21	133	99	34	
20-Jan-04	20:00:00	37	442	357	85	22	187	132	56	
20-Jan-04	21:00:00	47	511	417	93	16	228	184	44	
20-Jan-04	22:00:00	50	627	480	148	7	115	79	36	
20-Jan-04	23:00:00	48	550	442	109	41	358	261	96	
21-Jan-04	0:00:00	57	563	450	113	28	262	184	78	
21-Jan-04	1:00:00	52	533	442	91	14	119	82	36	
21-Jan-04	2:00:00	48	494	402	92	26	340	253	87	
21-Jan-04	3:00:00	37	440	363	78	17	444	350	93	
21-Jan-04	4:00:00	59	545	432	113	30	451	332	119	
21-Jan-04	5:00:00	77	704	532	172	38	658	494	164	
21-Jan-04	6:00:00	56	620	448	171	26	321	218	103	
21-Jan-04	7:00:00	86	1039	774	265	24	476	351	125	
21-Jan-04	8:00:00	55	605	450	154	28	486	382	105	
21-Jan-04	9:00:00	30	241	179	62	21	182	122	60	
21-Jan-04	10:00:00	21	292	204	89	18	49	28	20	
21-Jan-04	11:00:00	23	143	107	37	11	67	46	22	
21-Jan-04	12:00:00	21	126	91	34	18	80	56	24	
21-Jan-04	13:00:00	16	160	122	39	18	110	82	27	
21-Jan-04	14:00:00	20	130	90	40	20	96	71	26	
21-Jan-04	15:00:00	20	136	102	35	19	96	71	25	
21-Jan-04	16:00:00	44	118	77	41		88	54	34	
21-Jan-04	17:00:00	29	111	79	32	28	85	59	26	
21-Jan-04	18:00:00	21	104	66	37	24	115	75	40	
21-Jan-04	19:00:00	38	473	416	57	52	607	525	82	
21-Jan-04	20:00:00	50	801	748	53	79	821	698	123	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
21-Jan-04	21:00:00	69	795	719	76	61	930	798	132	
21-Jan-04	22:00:00	68	843	783	60	81	1166	991	175	
21-Jan-04	23:00:00	66	884	829	54	92	1207	1031	176	
22-Jan-04	0:00:00	90	1084	967	117	103	1315	1105	209	
22-Jan-04	1:00:00	80	919	814	105	88	1111	966	145	
22-Jan-04	2:00:00	70	702	624	77	80	967	852	116	
22-Jan-04	3:00:00	66	729	648	81	76	912	777	134	
22-Jan-04	4:00:00	72	1010	892	117	90	1038	906	132	
22-Jan-04	5:00:00	98	1011	886	125	105	1138	966	171	
22-Jan-04	6:00:00	90	1083	949	134	64	797	729	68	
22-Jan-04	7:00:00	101	944	829	115	74	728	650	78	
22-Jan-04	8:00:00	81	815	717	97	79	781	703	78	
22-Jan-04	9:00:00	82	730	639	92	90	913	791	122	
22-Jan-04	10:00:00	47	401	355	46	54	566	477	90	
22-Jan-04	11:00:00	32	242	195	47	27	331	249	82	
22-Jan-04	12:00:00	21	108	77	31	22	158	117	41	
22-Jan-04	13:00:00	21	129	92	37	22	81	56	24	
22-Jan-04	14:00:00	24	131	90	40	20	101	72	28	
22-Jan-04	15:00:00	18	146	99	46	24	118	82	37	
22-Jan-04	16:00:00	16	107	68	39	10	78	51	27	
22-Jan-04	17:00:00	10	206	134	72	17	91	64	27	
22-Jan-04	18:00:00	12	98	63	35	13	47	28	19	
22-Jan-04	19:00:00	13	111	78	33	11	73	46	27	
22-Jan-04	20:00:00	16	174	128	46	21	174	117	58	
22-Jan-04	21:00:00	18	212	137	75	18	109	69	41	
22-Jan-04	22:00:00	13	176	119	58	11	96	62	34	
22-Jan-04	23:00:00	24	365	265	99	27	311	222	88	
23-Jan-04	0:00:00	16	305	204	101	25	269	182	87	
23-Jan-04	1:00:00	10	245	173	72	33	352	242	110	
23-Jan-04	2:00:00	12	201	149	52	29	359	265	94	
23-Jan-04	3:00:00	20	287	193	94	40	333	243	89	
23-Jan-04	4:00:00	24	256	186	70	50	551	396	155	
23-Jan-04	5:00:00	19	303	222	81	19	345	227	118	
23-Jan-04	6:00:00	24	307	227	80	15	305	201	105	
23-Jan-04	7:00:00	29	342	252	90	26	302	211	91	
23-Jan-04	8:00:00	32	386	288	98	21	240	183	57	
23-Jan-04	9:00:00	32	317	226	90	13	124	81	43	
23-Jan-04	10:00:00	7	174	133	41	22	347	254	93	
23-Jan-04	11:00:00	7	81	56	25	7	107	73	33	
23-Jan-04	12:00:00	13	80	53	27	10	128	89	39	
23-Jan-04	13:00:00	13	80	54	26	9	100	65	35	
23-Jan-04	14:00:00	8	72	46	26	13	70	45	25	
23-Jan-04	15:00:00	9	88	55	32	7	72	47	25	
23-Jan-04	16:00:00	15	70	43	27	10	54	34	21	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Jan-04	17:00:00	18	84	53	31	9	62	39	23	
23-Jan-04	18:00:00	12	81	46	35	12	110	68	42	
23-Jan-04	19:00:00	4	73	46	27	12	105	66	39	
23-Jan-04	20:00:00	16	100	67	33	13	172	116	56	
23-Jan-04	21:00:00	26	222	164	58	29	455	358	97	
23-Jan-04	22:00:00	27	274	200	74	34	394	316	78	
23-Jan-04	23:00:00	26	288	216	72	31	519	401	117	
24-Jan-04	0:00:00	37	397	320	76	57	863	703	159	
24-Jan-04	1:00:00	40	505	418	88	46	691	559	132	
24-Jan-04	2:00:00	71	807	703	104	61	621	503	118	
24-Jan-04	3:00:00	73	836	732	104	67	657	576	81	
24-Jan-04	4:00:00	77	862	766	95	46	584	507	78	
24-Jan-04	5:00:00	92	931	827	104	58	593	535	58	
24-Jan-04	6:00:00	96	1036	940	96	74	738	669	69	
24-Jan-04	7:00:00	88	994	909	86	67	759	704	55	
24-Jan-04	8:00:00	88	853	770	82	76	845	707	138	
24-Jan-04	9:00:00	88	950	859	91	69	644	598	46	
24-Jan-04	10:00:00	130	1218	1084	134	107	1016	910	106	
24-Jan-04	11:00:00		259	210	50	42	291	238	53	
24-Jan-04	12:00:00	22	170	121	49	26	91	59	32	
24-Jan-04	13:00:00	30	250	167	82	24	77	48	29	
24-Jan-04	14:00:00	33	86	51	35	22	68	36	32	
24-Jan-04	15:00:00	25	87	52	35	18	43	21	21	
24-Jan-04	16:00:00	25	105	63	42	13	84	52	32	
24-Jan-04	17:00:00	15	123	81	41	9	137	74	63	
24-Jan-04	18:00:00	18	235	160	75	15	30	9	21	
24-Jan-04	19:00:00	14	175	125	50	16	96	57	40	
24-Jan-04	20:00:00	26	363	311	52	16	145	96	49	
24-Jan-04	21:00:00	28	327	253	74	32	83	45	38	
24-Jan-04	22:00:00	40	391	321	70	25	189	124	66	
24-Jan-04	23:00:00	41	348	253	95	39	257	169	88	
25-Jan-04	0:00:00	28	498	389	109	61	405	255	150	
25-Jan-04	1:00:00	37	604	443	161	42	456	305	151	
25-Jan-04	2:00:00	26	252	192	59	35	401	276	126	
25-Jan-04	3:00:00	35	274	211	63	32	364	254	110	
25-Jan-04	4:00:00	31	295	231	63	35	355	261	94	
25-Jan-04	5:00:00	34	262	202	60	36	348	251	97	
25-Jan-04	6:00:00	20	172	130	42	32	275	196	79	
25-Jan-04	7:00:00	44	391	304	87	38	314	217	96	
25-Jan-04	8:00:00	48	467	356	111	45	288	194	94	
25-Jan-04	9:00:00	50	605	481	123	42	279	192	87	
25-Jan-04	10:00:00	83	952	699	253	30	288	198	91	
25-Jan-04	11:00:00	63	422	304	117	32	178	110	68	
25-Jan-04	12:00:00	38	361	289	72	21	121	77	44	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Jan-04	13:00:00	57	794	615	179	16	326	265	61	
25-Jan-04	14:00:00	51	535	390	145	14	170	116	54	
25-Jan-04	15:00:00	38	628	484	144	15	115	73	42	
25-Jan-04	16:00:00	31	413	316	97	14	119	77	41	
25-Jan-04	17:00:00	26	349	271	78	13	102	73	28	
25-Jan-04	18:00:00	31	341	266	75	17	367	270	98	
25-Jan-04	19:00:00	16	212	167	45	18	228	176	52	
25-Jan-04	20:00:00	12	205	157	49	28	316	239	78	
25-Jan-04	21:00:00	11	238	179	60	23	251	198	53	
25-Jan-04	22:00:00	14	161	119	42	6	193	144	49	
25-Jan-04	23:00:00		219	175	44	17	225	171	54	
26-Jan-04	0:00:00	12	265	218	47	20	352	269	82	
26-Jan-04	1:00:00	21	260	208	52	39	529	407	122	
26-Jan-04	2:00:00	24	190	151	39	37	570	457	113	
26-Jan-04	3:00:00	17	277	208	69	24	443	336	107	
26-Jan-04	4:00:00	18	140	101	39	36	249	173	77	
26-Jan-04	5:00:00	31	382	280	102	20	106	70	36	
26-Jan-04	6:00:00	25	192	144	48	14	139	93	47	
26-Jan-04	7:00:00	28	361	264	97	17	162	107	55	
26-Jan-04	8:00:00	35	329	244	85	28	100	79	21	
26-Jan-04	9:00:00	33	382	300	82		88	69	19	
26-Jan-04	10:00:00	24	405	298	108	15	60	45	15	
26-Jan-04	11:00:00	22	134	106	28	19	84	66	18	
26-Jan-04	12:00:00	34	164	132	32	23	153	122	31	
26-Jan-04	13:00:00	23	83	60	23	32	87	64	23	
26-Jan-04	14:00:00	33	147	114	33	32	174	142	33	
26-Jan-04	15:00:00	36	201	157	44	24	90	74	17	
26-Jan-04	16:00:00	41	277	209	69	26	90	71	19	
26-Jan-04	17:00:00	26	183	135	48	20	111	87	23	
26-Jan-04	18:00:00	28	219	164	55	23	175	125	50	
26-Jan-04	19:00:00	29	109	83	26	22	72	51	22	
26-Jan-04	20:00:00	25	111	86	25	24	141	100	41	
26-Jan-04	21:00:00	32	100	75	25	30	84	65	19	
26-Jan-04	22:00:00	32	176	138	39	42	203	153	50	
26-Jan-04	23:00:00	42	159	129	30	38	111	82	28	
27-Jan-04	0:00:00	45	199	146	54	46	273	207	65	
27-Jan-04	1:00:00	44	168	132	35	63	319	244	75	
27-Jan-04	2:00:00	43	232	192	40	49	434	355	79	
27-Jan-04	3:00:00	32	218	166	52	37	361	264	97	
27-Jan-04	4:00:00	34	186	145	41	30	305	226	79	
27-Jan-04	5:00:00	27	239	187	52	39	338	252	86	
27-Jan-04	6:00:00	28	219	168	51	38	417	325	92	
27-Jan-04	7:00:00	22	186	136	50	33	407	319	87	
27-Jan-04	8:00:00	29	178	137	41	29	347	270	77	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Jan-04	9:00:00	26	189	143	47	28	327	259	67	
27-Jan-04	10:00:00	11	115	84	31	16	149	105	43	
27-Jan-04	11:00:00	10	130	94	36	17	182	141	40	
27-Jan-04	12:00:00	9	192	128	64	4	93	72	21	
27-Jan-04	13:00:00	18	170	123	47	32	101	75	26	
27-Jan-04	14:00:00	11	155	117	38	8	112	86	26	
27-Jan-04	15:00:00	14	157	125	32	18	154	119	36	
27-Jan-04	16:00:00	21	177	136	42	9	122	89	33	
27-Jan-04	17:00:00	20	170	124	46	18	139	104	34	
27-Jan-04	18:00:00	22	171	131	40	18	115	85	30	
27-Jan-04	19:00:00	20	186	139	47	19	142	104	38	
27-Jan-04	20:00:00	21	243	181	62	17	108	66	42	
27-Jan-04	21:00:00	26	346	246	100	28	188	126	62	
27-Jan-04	22:00:00	25	405	321	85	25	197	142	56	
27-Jan-04	23:00:00	25	217	163	54	32	276	194	82	
28-Jan-04	0:00:00	20	222	157	65	27	374	267	107	
28-Jan-04	1:00:00	23	373	283	91	23	357	227	130	
28-Jan-04	2:00:00	26	208	155	53	33	262	190	72	
28-Jan-04	3:00:00	20	210	159	51	38	357	252	105	
28-Jan-04	4:00:00	26	192	138	55	22	340	235	105	
28-Jan-04	5:00:00	15	218	154	64	15	313	199	114	
28-Jan-04	6:00:00	28	221	160	61	30	310	197	114	
28-Jan-04	7:00:00	38	289	207	81	28	322	204	118	
28-Jan-04	8:00:00	28	432	283	149	38	477	329	148	
28-Jan-04	9:00:00	28	327	242	85	28	348	267	81	
28-Jan-04	10:00:00	17	238	158	80	31	200	147	53	
28-Jan-04	11:00:00	9	77	54	23	15	193	122	71	
28-Jan-04	12:00:00	12	73	46	27		78	53	25	
28-Jan-04	13:00:00	11	102	61	41	19	85	56	29	
28-Jan-04	14:00:00	19	86	54	32	9	59	41	18	
28-Jan-04	15:00:00	1	103	60	42	5	71	47	23	
28-Jan-04	16:00:00	19	106	67	39	8	148	99	48	
28-Jan-04	17:00:00	12	142	96	46	18	219	131	89	
28-Jan-04	18:00:00	12	103	70	33	24	455	289	166	
28-Jan-04	19:00:00	19	43	22	22	16	287	203	84	
28-Jan-04	20:00:00	19	85	55	31	23	387	286	101	
28-Jan-04	21:00:00	5	60	36	24	36	602	431	171	
28-Jan-04	22:00:00	32	399	332	66	57	679	568	111	
28-Jan-04	23:00:00	39	590	512	78	49	579	486	93	
29-Jan-04	0:00:00	64	691	599	93	53	576	501	75	
29-Jan-04	1:00:00	71	743	628	114	58	632	557	75	
29-Jan-04	2:00:00	69	941	809	132	39	465	429	36	
29-Jan-04	3:00:00	73	955	843	112	62	708	620	89	
29-Jan-04	4:00:00	98	1120	985	134	44	562	461	101	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Jan-04	5:00:00	105	1474	1267	207	64	776	661	115	
29-Jan-04	6:00:00	79	851	768	82	62	731	651	80	
29-Jan-04	7:00:00	80	955	870	86		1063	943	120	
29-Jan-04	8:00:00	110	1182	1078	103	102	1181	1058	123	
29-Jan-04	9:00:00	137	1274	1168	107		1369	1256	113	
29-Jan-04	10:00:00	94	930	809	121	117	1099	987	112	
29-Jan-04	11:00:00	30	228	176	52	26	452	344	108	
29-Jan-04	12:00:00	26	222	167	55	26	176	123	52	
29-Jan-04	13:00:00	16	151	100	51	16	126	90	36	
29-Jan-04	14:00:00	19	139	94	45	21	126	82	44	
29-Jan-04	15:00:00	8	115	73	43	20	147	103	45	
29-Jan-04	16:00:00	11	94	58	36	9	95	56	39	
29-Jan-04	17:00:00	17	102	67	35	24	150	93	57	
29-Jan-04	18:00:00	17	103	63	40	20	175	102	73	
29-Jan-04	19:00:00	17	102	60	42	10	57	30	28	
29-Jan-04	20:00:00	18	88	49	39	17	82	49	33	
29-Jan-04	21:00:00	20	95	63	32	16	163	118	45	
29-Jan-04	22:00:00	28	296	222	74	38	407	340	67	
29-Jan-04	23:00:00	21	284	221	64	33	481	403	77	
30-Jan-04	0:00:00	29	324	245	79	39	508	414	94	
30-Jan-04	1:00:00	31	307	236	70	43	371	301	71	
30-Jan-04	2:00:00	40	295	225	70	35	452	368	84	
30-Jan-04	3:00:00	36	303	240	63	41	377	303	74	
30-Jan-04	4:00:00	19	134	92	42	13	139	97	42	
30-Jan-04	5:00:00	30	317	243	74	34	341	256	85	
30-Jan-04	6:00:00	32	263	200	63	40	420	332	87	
30-Jan-04	7:00:00	24	150	95	55	117	527	360	167	
30-Jan-04	8:00:00	28	189	134	54	31	388	272	115	
30-Jan-04	9:00:00	18	164	109	55	11	79	49	29	
30-Jan-04	10:00:00	19	150	116	34	25	188	120	68	
30-Jan-04	11:00:00	17	78	47	31	27	129	73	55	
30-Jan-04	12:00:00	20	91	60	30	22	113	77	36	
30-Jan-04	13:00:00	12	98	68	29	12	62	44	17	
30-Jan-04	14:00:00	24	87	62	25	21	109	77	33	
30-Jan-04	15:00:00	12	73	48	25	17	79	58	21	
30-Jan-04	16:00:00	14	124	89	36	18	86	64	23	
30-Jan-04	17:00:00	20	156	111	45	13	89	57	33	
30-Jan-04	18:00:00	29	143	101	42	22	53	30	23	
30-Jan-04	19:00:00	13	246	180	66	29	265	172	94	
30-Jan-04	20:00:00	22	206	141	65	30	345	244	101	
30-Jan-04	21:00:00	14	181	132	50	26	213	131	83	
30-Jan-04	22:00:00	23	298	218	80	21	247	169	78	
30-Jan-04	23:00:00	13	154	99	54	39	519	367	153	
31-Jan-04	0:00:00	20	204	153	52	28	344	237	107	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
31-Jan-04	1:00:00	25	450	336	114	18	88	54	35	
31-Jan-04	2:00:00	42	601	448	153	11	68	40	28	
31-Jan-04	3:00:00	37	443	337	105	21	252	188	64	
31-Jan-04	4:00:00	34	410	312	98	16	367	269	97	
31-Jan-04	5:00:00	30	407	285	122	15	358	266	92	
31-Jan-04	6:00:00	44	609	441	168	30	401	268	133	
31-Jan-04	7:00:00	40	480	366	114	28	407	268	140	
31-Jan-04	8:00:00	46	555	405	150	36	578	398	181	
31-Jan-04	9:00:00	109	755	493	262	21	160	113	47	
31-Jan-04	10:00:00	26	360	230	130	9	41	24	17	
31-Jan-04	11:00:00	40	434	293	142	1	54	35	19	
31-Jan-04	12:00:00	44	438	286	151	11	43	29	14	
31-Jan-04	13:00:00	15	294	207	87	9	47	26	22	
31-Jan-04	14:00:00	20	283	191	92	10	135	78	57	
31-Jan-04	15:00:00	8	301	221	80	7	77	46	30	
31-Jan-04	16:00:00	17	153	97	56	11	50	26	24	
31-Jan-04	17:00:00	10	175	115	60	12	43	23	20	
31-Jan-04	18:00:00	26	199	136	63	10	94	51	43	
31-Jan-04	19:00:00	22	241	179	62	39	223	151	72	
31-Jan-04	20:00:00	38	288	219	69	24	303	214	89	
31-Jan-04	21:00:00	26	306	247	59	35	393	254	139	
31-Jan-04	22:00:00	34	472	380	92	31	388	290	99	
31-Jan-04	23:00:00	50	479	402	77	22	237	186	51	
1-Feb-04	0:00:00	59	545	445	100	23	212	172	41	
1-Feb-04	1:00:00	51	559	460	99	26	240	193	47	
1-Feb-04	2:00:00	52	511	410	102	33	320	243	77	
1-Feb-04	3:00:00	59	491	376	115	32	336	229	107	
1-Feb-04	4:00:00	54	565	433	132	38	395	258	137	
1-Feb-04	5:00:00	51	535	426	110	32	192	100	92	
1-Feb-04	6:00:00	50	561	405	156	21	133	79	54	
1-Feb-04	7:00:00	49	711	544	167	34	743	487	256	
1-Feb-04	8:00:00	33	406	331	76	24	263	158	105	
1-Feb-04	9:00:00	61	681	537	144	27	354	257	97	
1-Feb-04	10:00:00	23	608	431	177	15	374	288	86	
1-Feb-04	11:00:00	19	474	319	156	3	115	71	43	
1-Feb-04	12:00:00	20	363	260	102	14	94	66	27	
1-Feb-04	13:00:00	16	94	61	33	10	64	40	24	
1-Feb-04	14:00:00	23	157	98	59	13	85	53	32	
1-Feb-04	15:00:00	7	83	50	33	10	81	54	27	
1-Feb-04	16:00:00	31	145	66	79	9	91	54	38	
1-Feb-04	17:00:00	16	58	28	30	18	105	62	43	
1-Feb-04	18:00:00	20	56	25	31	18	57	25	32	
1-Feb-04	19:00:00	19	243	193	50	38	296	249	47	
1-Feb-04	20:00:00	44	752	686	65	64	593	540	53	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-Feb-04	21:00:00	68	1021	947	74	68	689	624	66	
1-Feb-04	22:00:00	46	708	656	51	49	558	507	51	
1-Feb-04	23:00:00	55	996	911	85	68	770	697	73	
2-Feb-04	0:00:00	67	1002	941	61	80	779	709	69	
2-Feb-04	1:00:00	54	587	528	59	55	430	380	50	
2-Feb-04	2:00:00	51	546	477	70	37	289	245	44	
2-Feb-04	3:00:00	48	628	565	63	37	384	335	49	
2-Feb-04	4:00:00	40	468	416	52	29	287	256	31	
2-Feb-04	5:00:00	66	604	533	71	51	580	497	83	
2-Feb-04	6:00:00	56	796	721	76	60	704	646	58	
2-Feb-04	7:00:00	49	472	395	78	59	167	128	39	
2-Feb-04	8:00:00	32	434	331	103	21	66	40	27	
2-Feb-04	9:00:00	27	297	234	63	31	82	50	32	
2-Feb-04	10:00:00	8	148	104	43	8	48	23	26	
2-Feb-04	11:00:00	12	52	26	26	4	29	9	20	
2-Feb-04	12:00:00	11	70	37	32	10	43	19	24	
2-Feb-04	13:00:00	10	40	16	24	11	37	12	24	
2-Feb-04	14:00:00	10	73	42	30	12	31	11	20	
2-Feb-04	15:00:00	19	165	106	59	17	61	35	26	
2-Feb-04	16:00:00	24	166	125	41	13	104	73	30	
2-Feb-04	17:00:00	11	181	117	64	11	91	56	35	
2-Feb-04	18:00:00	19	220	166	54	10	94	59	34	
2-Feb-04	19:00:00	20	109	64	45	12	102	66	36	
2-Feb-04	20:00:00	26	291	239	52	19	241	197	44	
2-Feb-04	21:00:00	28	415	312	103	19	192	154	38	
2-Feb-04	22:00:00	23	299	253	46	21	319	270	49	
2-Feb-04	23:00:00	29	330	281	49	21	393	321	72	
3-Feb-04	0:00:00	27	296	235	62	27	299	242	56	
3-Feb-04	1:00:00	20	260	202	58	29	337	267	70	
3-Feb-04	2:00:00	19	203	151	52	34	411	317	93	
3-Feb-04	3:00:00	20	219	172	47	28	364	272	91	
3-Feb-04	4:00:00	27	236	186	50	27	327	258	69	
3-Feb-04	5:00:00	34	220	171	49	49	499	398	101	
3-Feb-04	6:00:00	36	238	192	46	47	505	412	92	
3-Feb-04	7:00:00	27	176	127	49	61	638	511	127	
3-Feb-04	8:00:00	25	152	110	42	65	560	423	137	
3-Feb-04	9:00:00	21	203	160	43		434	335	99	
3-Feb-04	10:00:00	20	157	120	38	37	332	245	88	
3-Feb-04	11:00:00	13	99	69	30	18	173	117	56	
3-Feb-04	12:00:00	7	116	76	40	10	172	124	48	
3-Feb-04	13:00:00	5	137	106	31	16	124	103	21	
3-Feb-04	14:00:00	14	141	105	36	7	87	65	21	
3-Feb-04	15:00:00	18	148	110	37	13	114	85	28	
3-Feb-04	16:00:00	25	136	103	32	17	112	81	30	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-Feb-04	17:00:00	20	161	121	40	24	118	92	26	
3-Feb-04	18:00:00	19	361	270	91	14	80	55	25	
3-Feb-04	19:00:00	39	561	404	157	21	102	71	31	
3-Feb-04	20:00:00	29	532	387	146	24	180	125	55	
3-Feb-04	21:00:00	39	575	437	138	34	304	220	83	
3-Feb-04	22:00:00	43	565	416	149	28	209	150	59	
3-Feb-04	23:00:00	50	622	477	145	23	149	95	54	
4-Feb-04	0:00:00	53	531	416	114	29	175	124	52	
4-Feb-04	1:00:00	71	714	533	180	34	432	318	114	
4-Feb-04	2:00:00	73	709	524	185	31	156	104	52	
4-Feb-04	3:00:00	71	926	696	230	21	137	91	46	
4-Feb-04	4:00:00	79	964	712	252	28	88	56	32	
4-Feb-04	5:00:00	67	948	708	240	34	270	173	98	
4-Feb-04	6:00:00	42	513	391	122	18	137	84	54	
4-Feb-04	7:00:00	49	544	422	122	40	249	163	86	
4-Feb-04	8:00:00	50	459	354	105	36	170	119	51	
4-Feb-04	9:00:00	35	303	234	69	41	125	86	39	
4-Feb-04	10:00:00	45	244	181	63	24	91	54	36	
4-Feb-04	11:00:00	33	186	124	63	24	39	23	16	
4-Feb-04	12:00:00	22	93	56	37	24	20	10	10	
4-Feb-04	13:00:00	22	74	42	32	17	30	19	11	
4-Feb-04	14:00:00	32	68	43	26	22	40	21	19	
4-Feb-04	15:00:00	42	157	99	58	22	121	77	44	
4-Feb-04	16:00:00	16	56	34	22	26	39	23	17	
4-Feb-04	17:00:00	28	76	51	25	25	40	23	17	
4-Feb-04	18:00:00	27	129	88	41	24	132	76	56	
4-Feb-04	19:00:00	39	128	85	43	30	91	56	34	
4-Feb-04	20:00:00	39	500	416	85	38	572	411	161	
4-Feb-04	21:00:00	71	550	453	97	34	323	246	77	
4-Feb-04	22:00:00	120	908	694	214	27	154	114	40	
4-Feb-04	23:00:00	89	827	645	181	31	121	89	32	
5-Feb-04	0:00:00	94	714	558	156	27	100	67	33	
5-Feb-04	1:00:00	81	669	558	110	35	325	274	51	
5-Feb-04	2:00:00	89	816	712	104	38	344	289	55	
5-Feb-04	3:00:00	101	756	642	114	48	526	404	122	
5-Feb-04	4:00:00	89	758	664	94	38	275	235	40	
5-Feb-04	5:00:00	116	906	735	171	32	184	146	38	
5-Feb-04	6:00:00	118	991	774	217	28	185	116	70	
5-Feb-04	7:00:00	109	909	736	173	31	267	170	97	
5-Feb-04	8:00:00	43	646	490	156	24	217	141	75	
5-Feb-04	9:00:00	49	574	419	155	32	264	192	72	
5-Feb-04	10:00:00	40	664	487	177	22	43	20	24	
5-Feb-04	11:00:00	34	299	231	68	28	59	35	24	
5-Feb-04	12:00:00	28	160	126	34	21	68	46	22	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-Feb-04	13:00:00	30	82	55	26	18	43	23	20	
5-Feb-04	14:00:00	25	168	127	42	28	71	43	28	
5-Feb-04	15:00:00	48	223	153	71	27	65	40	25	
5-Feb-04	16:00:00	31	176	110	66	23	53	31	22	
5-Feb-04	17:00:00	29	109	76	33	23	54	29	25	
5-Feb-04	18:00:00	26	101	73	29	23	60	33	26	
5-Feb-04	19:00:00	25	181	134	47	25	91	48	42	
5-Feb-04	20:00:00	35	252	195	57	22	115	82	33	
5-Feb-04	21:00:00	67	756	616	140	26	123	98	25	
5-Feb-04	22:00:00	94	956	766	190	26	209	133	76	
5-Feb-04	23:00:00	118	1055	847	208	21	84	59	25	
6-Feb-04	0:00:00	91	854	672	182	12	56	35	21	
6-Feb-04	1:00:00	81	631	470	161	27	95	59	35	
6-Feb-04	2:00:00	58	554	448	106	34	321	240	81	
6-Feb-04	3:00:00	23	355	294	61	34	476	379	97	
6-Feb-04	4:00:00	24	245	186	59	23	363	278	85	
6-Feb-04	5:00:00	23	328	256	72	20	394	305	88	
6-Feb-04	6:00:00	7	214	159	54	33	490	403	87	
6-Feb-04	7:00:00	13	217	163	53	14	299	227	72	
6-Feb-04	8:00:00	10	96	70	27	22	146	104	42	
6-Feb-04	9:00:00	27	317	227	90	8	92	67	25	
6-Feb-04	10:00:00	16	184	144	40	2	49	30	18	
6-Feb-04	11:00:00	6	137	96	41	6	62	41	20	
6-Feb-04	12:00:00	27	222	158	64	4	83	51	32	
6-Feb-04	13:00:00	22	360	252	109	5	115	78	37	
6-Feb-04	14:00:00	19	365	261	105	5	74	53	21	
6-Feb-04	15:00:00	11	58	35	24	10	68	45	23	
6-Feb-04	16:00:00	14	128	95	33	9	107	79	27	
6-Feb-04	17:00:00	22	175	140	35	11	109	83	27	
6-Feb-04	18:00:00	12	179	143	37	13	156	123	34	
6-Feb-04	19:00:00	11	167	123	44	3	96	74	22	
6-Feb-04	20:00:00	8	244	188	56	10	131	95	36	
6-Feb-04	21:00:00	18	359	269	90	5	65	48	16	
6-Feb-04	22:00:00	15	416	304	112		70	48	22	
6-Feb-04	23:00:00	11	343	258	84	9	78	54	24	
7-Feb-04	0:00:00	13	291	214	78	13	138	96	42	
7-Feb-04	1:00:00	6	270	199	71	20	289	209	80	
7-Feb-04	2:00:00	13	203	156	47	13	345	248	97	
7-Feb-04	3:00:00	11	177	122	55	20	316	219	97	
7-Feb-04	4:00:00	23	214	161	53	25	337	256	82	
7-Feb-04	5:00:00	18	205	154	51	36	483	359	124	
7-Feb-04	6:00:00	22	325	229	96	10	168	103	65	
7-Feb-04	7:00:00	13	290	213	78	17	226	157	69	
7-Feb-04	8:00:00	30	242	178	64	23	288	201	88	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-Feb-04	9:00:00	22	253	205	48	31	302	231	72	
7-Feb-04	10:00:00	26				30	356	286	70	
7-Feb-04	11:00:00	17				22	206	169	37	
7-Feb-04	12:00:00	12				20	159	115	44	
7-Feb-04	13:00:00	5				11	136	96	40	
7-Feb-04	14:00:00	14				15	99	70	29	
7-Feb-04	15:00:00	7				6	51	31	20	
7-Feb-04	16:00:00	14				11	104	67	37	
7-Feb-04	17:00:00	17				18	72	48	24	
7-Feb-04	18:00:00	18				13	69	44	24	
7-Feb-04	19:00:00	24				12	90	58	32	
7-Feb-04	20:00:00	9				21	146	91	55	
7-Feb-04	21:00:00	26				23	166	111	55	
7-Feb-04	22:00:00	62				26	186	131	55	
7-Feb-04	23:00:00	35				35	330	212	118	
8-Feb-04	0:00:00	30				29	226	149	76	
8-Feb-04	1:00:00	32				32	250	159	90	
8-Feb-04	2:00:00	27				40	337	236	101	
8-Feb-04	3:00:00	34				29	283	198	85	
8-Feb-04	4:00:00	27				23	215	145	70	
8-Feb-04	5:00:00	32				36	324	216	108	
8-Feb-04	6:00:00	25				38	505	322	183	
8-Feb-04	7:00:00	32				41	907	634	273	
8-Feb-04	8:00:00	60				57	1071	759	312	
8-Feb-04	9:00:00	53				43	658	464	195	
8-Feb-04	10:00:00	19				18	128	74	54	
8-Feb-04	11:00:00					12	91	52	40	
8-Feb-04	12:00:00					17	137	82	55	
8-Feb-04	13:00:00					6	43	25	18	
8-Feb-04	14:00:00					16	52	29	23	
8-Feb-04	15:00:00					4	50	27	23	
8-Feb-04	16:00:00					12	97	61	36	
8-Feb-04	17:00:00					20	145	86	59	
8-Feb-04	18:00:00					27	111	67	45	
8-Feb-04	19:00:00					31	268	206	62	
8-Feb-04	20:00:00					58	406	316	90	
8-Feb-04	21:00:00					41	413	364	49	
8-Feb-04	22:00:00					34	506	456	49	
8-Feb-04	23:00:00					43	397	358	39	
9-Feb-04	0:00:00					57	599	537	62	
9-Feb-04	1:00:00					57	794	728	66	
9-Feb-04	2:00:00					59	772	699	72	
9-Feb-04	3:00:00					48	640	542	98	
9-Feb-04	4:00:00					29	357	288	69	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-Feb-04	5:00:00					33	334	265	69	
9-Feb-04	6:00:00					21	152	109	43	
9-Feb-04	7:00:00					30	210	151	59	
9-Feb-04	8:00:00					33	289	229	59	
9-Feb-04	9:00:00					28	248	194	54	
9-Feb-04	10:00:00					13	91	57	34	
9-Feb-04	11:00:00		37	27	9	16	76	50	26	
9-Feb-04	12:00:00		132	83	48	18	73	44	28	
9-Feb-04	13:00:00	50	127	86	41	46	86	48	39	
9-Feb-04	14:00:00	28	105	67	37	11	88	56	32	
9-Feb-04	15:00:00	22	74	43	31	16	42	22	20	
9-Feb-04	16:00:00	21	90	54	37	16	51	28	24	
9-Feb-04	17:00:00	21	124	82	42	17	84	47	37	
9-Feb-04	18:00:00	25	105	63	42	14	52	28	24	
9-Feb-04	19:00:00	26	215	154	62	28	243	172	72	
9-Feb-04	20:00:00	24	245	186	59		391	308	83	
9-Feb-04	21:00:00	30	283	230	53	34	380	297	84	
9-Feb-04	22:00:00	31	274	219	55	22	344	289	55	
9-Feb-04	23:00:00	42	364	310	54	45	396	347	49	
10-Feb-04	0:00:00	42	508	463	45	50	609	526	83	
10-Feb-04	1:00:00	52	517	468	49	61	787	666	122	
10-Feb-04	2:00:00	40	456	420	36	66	1074	914	160	
10-Feb-04	3:00:00	39	443	393	50	63	1061	871	190	
10-Feb-04	4:00:00	47	506	449	56	89	1313	1158	155	
10-Feb-04	5:00:00	63	511	419	93	59	1071	961	110	
10-Feb-04	6:00:00	52	565	502	63	52	914	782	132	
10-Feb-04	7:00:00	33	178	134	44	53	749	620	129	
10-Feb-04	8:00:00	27	155	116	38	37	504	404	100	
10-Feb-04	9:00:00	43	330	291	38	42	595	519	76	
10-Feb-04	10:00:00	41	232	189	43	36	318	259	60	
10-Feb-04	11:00:00	44	185	146	39	40	259	205	53	
10-Feb-04	12:00:00	37	195	157	38	40	294	242	52	
10-Feb-04	13:00:00	34	134	98	36	29	262	195	68	
10-Feb-04	14:00:00	22	158	113	46	25	205	151	55	
10-Feb-04	15:00:00	26	111	71	40	21	128	87	40	
10-Feb-04	16:00:00	12	121	80	41	7	94	60	34	
10-Feb-04	17:00:00	22	156	113	43	14	152	103	49	
10-Feb-04	18:00:00	27	215	167	48	25	235	169	66	
10-Feb-04	19:00:00	28	319	260	59	32	420	359	60	
10-Feb-04	20:00:00	35	489	412	76	35	509	438	71	
10-Feb-04	21:00:00	39	612	549	63	55	841	770	71	
10-Feb-04	22:00:00	57	906	786	120	51	803	730	73	
10-Feb-04	23:00:00	54	897	795	102	36	846	791	55	
11-Feb-04	0:00:00	63	924	820	104	48	766	694	72	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
11-Feb-04	1:00:00	79	1435	1274	162	55	646	596	50	
11-Feb-04	2:00:00	76	1058	899	158	60	560	515	45	
11-Feb-04	3:00:00	82	1259	1113	146	94	707	655	53	
11-Feb-04	4:00:00	76	1200	1027	174	60	539	486	53	
11-Feb-04	5:00:00	79	1032	910	122	54	544	496	48	
11-Feb-04	6:00:00	90	1094	945	149	65	414	384	31	
11-Feb-04	7:00:00	76	956	844	112	63	487	452	35	
11-Feb-04	8:00:00		907	818	89	73	693	640	53	
11-Feb-04	9:00:00	63	603	555	48	104	559	523	35	
11-Feb-04	10:00:00	41	322	273	50	79	407	335	72	
11-Feb-04	11:00:00	16	140	107	34	62	317	204	113	
11-Feb-04	12:00:00	15	91	61	30	3	161	107	54	
11-Feb-04	13:00:00	18	88	53	35	7	43	21	22	
11-Feb-04	14:00:00	12	71	44	27	12	56	33	23	
11-Feb-04	15:00:00	13	67	37	30	6	27	10	16	
11-Feb-04	16:00:00	10	169	115	54	5	35	15	20	
11-Feb-04	17:00:00	22	84	49	35	16	65	32	33	
11-Feb-04	18:00:00	19	184	131	53	15	106	62	43	
11-Feb-04	19:00:00	29	255	196	59	13	269	198	72	
11-Feb-04	20:00:00	35	375	294	82	27	252	172	80	
11-Feb-04	21:00:00	20	736	600	136	14	160	114	46	
11-Feb-04	22:00:00	38	657	541	116	16	126	84	42	
11-Feb-04	23:00:00	42	713	614	99	12	165	122	43	
12-Feb-04	0:00:00	50	1126	931	195	44	419	308	111	
12-Feb-04	1:00:00	37	908	823	85	34	350	292	58	
12-Feb-04	2:00:00	65	770	581	189	23	311	210	101	
12-Feb-04	3:00:00		875	697	178	26	342	232	109	
12-Feb-04	4:00:00	57	627	470	157	30	370	274	96	
12-Feb-04	5:00:00	64	650	523	127		329	245	85	
12-Feb-04	6:00:00	64	685	525	160	20	315	215	100	
12-Feb-04	7:00:00	40	474	352	122	28	331	202	129	
12-Feb-04	8:00:00	34	565	361	205	22	264	183	81	
12-Feb-04	9:00:00	23	650	465	185	12	206	131	75	
12-Feb-04	10:00:00	23	334	236	99	16	169	110	59	
12-Feb-04	11:00:00	42	258	213	44	15	118	70	48	
12-Feb-04	12:00:00	16	151	119	32	7	103	60	44	
12-Feb-04	13:00:00	12	126	97	29	10	102	57	46	
12-Feb-04	14:00:00	16	115	89	26	8	92	51	41	
12-Feb-04	15:00:00	15	179	153	26	7	59	31	29	
12-Feb-04	16:00:00		60	30	31	9	124	85	39	
12-Feb-04	17:00:00	10	37	13	24	6	121	62	59	
12-Feb-04	18:00:00	15	57	34	23	12	33	8	25	
12-Feb-04	19:00:00	10	58	37	21	15	59	32	27	
12-Feb-04	20:00:00	30	98	77	21	15	167	125	42	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Feb-04	21:00:00	32	281	262	18	25	297	246	51	
12-Feb-04	22:00:00	47	304	289	15	34	607	534	73	
12-Feb-04	23:00:00	40	478	464	14	45	486	454	33	
13-Feb-04	0:00:00	38	426	410	17	28	356	316	40	
13-Feb-04	1:00:00	54	426	410	16	38	548	504	44	
13-Feb-04	2:00:00	55	466	454	13	40	493	442	51	
13-Feb-04	3:00:00	49	435	425	10	37	362	332	30	
13-Feb-04	4:00:00	41	405	389	16	27	269	253	16	
13-Feb-04	5:00:00	57	467	448	19	38	454	418	36	
13-Feb-04	6:00:00	58	465	450	15	46	495	442	53	
13-Feb-04	7:00:00	39	378	354	24	47	333	299	33	
13-Feb-04	8:00:00	52	279	256	24	42	322	272	49	
13-Feb-04	9:00:00	52	285	262	23	28	134	91	44	
13-Feb-04	10:00:00	24	194	169	25	16	136	96	39	
13-Feb-04	11:00:00	33	138	119	20	22	68	42	26	
13-Feb-04	12:00:00	14	113	92	20	21	55	36	19	
13-Feb-04	13:00:00	25	89	67	22	20	63	42	20	
13-Feb-04	14:00:00	18	80	55	25	15	46	26	20	
13-Feb-04	15:00:00	18	76	50	26	12	68	44	25	
13-Feb-04	16:00:00	19	77	49	28	11	44	21	23	
13-Feb-04	17:00:00	25	121	93	28	13	127	81	46	
13-Feb-04	18:00:00	22	92	68	23	19	69	34	34	
13-Feb-04	19:00:00	20	87	66	21	22	76	46	30	
13-Feb-04	20:00:00	27	162	141	21	34	266	233	33	
13-Feb-04	21:00:00	41	354	336	18	37	416	381	35	
13-Feb-04	22:00:00	51	452	436	17	41	464	426	38	
13-Feb-04	23:00:00	44	507	489	18	49	608	530	78	
14-Feb-04	0:00:00	61	613	597	16	64	837	705	131	
14-Feb-04	1:00:00	55	638	623	15	53	551	492	58	
14-Feb-04	2:00:00	65	610	598	12	39	486	420	65	
14-Feb-04	3:00:00	48	513	497	15	41	423	366	57	
14-Feb-04	4:00:00	58	471	456	15	37	494	377	117	
14-Feb-04	5:00:00	51	499	478	21	47	649	520	129	
14-Feb-04	6:00:00	47	392	376	15	42	359	314	45	
14-Feb-04	7:00:00	54	485	458	28	49	611	486	125	
14-Feb-04	8:00:00	59	465	443	22	42	413	316	97	
14-Feb-04	9:00:00	52	440	420	20	42	618	471	147	
14-Feb-04	10:00:00	38	331	313	18	36	279	195	83	
14-Feb-04	11:00:00	37	246	228	18	21	132	96	36	
14-Feb-04	12:00:00	23	208	192	16	20	74	45	29	
14-Feb-04	13:00:00	38	177	160	17	39	163	105	58	
14-Feb-04	14:00:00	44	164	145	19	23	241	147	94	
14-Feb-04	15:00:00	27	163	142	21	14	40	23	18	
14-Feb-04	16:00:00	23	133	110	23	14	34	16	17	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Feb-04	17:00:00	18	82	56	26	12	33	12	21	
14-Feb-04	18:00:00	21	69	43	26	17	86	45	41	
14-Feb-04	19:00:00	39	136	108	28	28	189	135	54	
14-Feb-04	20:00:00	30	175	154	21	27	156	118	38	
14-Feb-04	21:00:00		349	329	20	28	585	463	122	
14-Feb-04	22:00:00		417	400	18	37	552	426	126	
14-Feb-04	23:00:00		470	453	16	44	309	278	32	
15-Feb-04	0:00:00		597	574	22	47	452	378	75	
15-Feb-04	1:00:00		634	612	23	51	503	404	99	
15-Feb-04	2:00:00		470	445	25	36	364	246	119	
15-Feb-04	3:00:00		397	372	25	41	251	173	78	
15-Feb-04	4:00:00		345	318	27	35	159	99	60	
15-Feb-04	5:00:00		305	279	26	22	172	102	70	
15-Feb-04	6:00:00		283	257	26	26	91	48	44	
15-Feb-04	7:00:00		247	219	28	33	234	151	83	
15-Feb-04	8:00:00		463	424	39	23	374	231	143	
15-Feb-04	9:00:00		456	424	32	20	116	63	52	
15-Feb-04	10:00:00		332	305	26	11	42	17	24	
15-Feb-04	11:00:00		292	265	27	14	38	16	22	
15-Feb-04	12:00:00		152	128	24	14	31	6	25	
15-Feb-04	13:00:00		182	153	29	6	23	6	17	
15-Feb-04	14:00:00		231	200	31	13	44	15	30	
15-Feb-04	15:00:00		214	185	29	15	59	31	28	
15-Feb-04	16:00:00		152	114	38	6	20	4	15	
15-Feb-04	17:00:00	44	126	86	40	10	77	34	43	
15-Feb-04	18:00:00	49	355	255	99	15	25	5	20	
15-Feb-04	19:00:00	32	347	268	79	6	19	4	15	
15-Feb-04	20:00:00	20	185	127	58	23	45	18	27	
15-Feb-04	21:00:00	24	226	171	55	26	171	94	77	
15-Feb-04	22:00:00	20	137	93	44	35	222	133	89	
15-Feb-04	23:00:00	29	191	133	58	23	109	48	61	
16-Feb-04	0:00:00		843	608	236	38	85	47	38	
16-Feb-04	1:00:00	44	976	723	253	42	148	95	53	
16-Feb-04	2:00:00	40	811	598	213	31	46	18	28	
16-Feb-04	3:00:00	28	347	270	77	31	67	32	35	
16-Feb-04	4:00:00	34	553	432	121	32	72	30	42	
16-Feb-04	5:00:00	53	553	423	130	28	35	13	22	
16-Feb-04	6:00:00	62	749	554	194	31	27	8	20	
16-Feb-04	7:00:00	66	796	579	217	10	28	10	18	
16-Feb-04	8:00:00	74	863	554	310	16	42	16	27	
16-Feb-04	9:00:00	64	383	267	116	10	37	18	19	
16-Feb-04	10:00:00	83	492	375	117	12	27	13	14	
16-Feb-04	11:00:00	86	360	257	102	12	25	13	12	
16-Feb-04	12:00:00	86	95	63	32	23	29	16	13	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Feb-04	13:00:00	87	124	90	34	15	35	21	15	
16-Feb-04	14:00:00	91	96	69	27	12	31	16	15	
16-Feb-04	15:00:00	79	89	56	33	23	81	40	41	
16-Feb-04	16:00:00	84	116	77	39	19	149	98	51	
16-Feb-04	17:00:00	107	138	93	45	16	34	14	20	
16-Feb-04	18:00:00	115	156	119	36	18	68	32	36	
16-Feb-04	19:00:00	121	281	174	107	22	63	27	37	
16-Feb-04	20:00:00	124	184	128	56	17	39	9	30	
16-Feb-04	21:00:00	119	107	63	44	29	56	22	34	
16-Feb-04	22:00:00	122	104	64	39	26	100	64	36	
16-Feb-04	23:00:00	125	189	136	53	33	202	154	48	
17-Feb-04	0:00:00	113	189	139	50	31	114	74	40	
17-Feb-04	1:00:00	116	234	186	49	34	116	78	38	
17-Feb-04	2:00:00	93	245	194	51	26	112	79	33	
17-Feb-04	3:00:00	60	402	348	55	34	229	191	38	
17-Feb-04	4:00:00	46	279	221	58	38	221	171	49	
17-Feb-04	5:00:00	36	249	207	43	28	279	206	73	
17-Feb-04	6:00:00	35	219	160	59	44	341	283	58	
17-Feb-04	7:00:00	27	225	171	55	37	311	225	86	
17-Feb-04	8:00:00	28	128	92	37	38	110	74	36	
17-Feb-04	9:00:00	43	474	409	66	37	225	160	65	
17-Feb-04	10:00:00	53	288	248	40	48	205	157	49	
17-Feb-04	11:00:00	48	193	145	48	41	148	113	36	
17-Feb-04	12:00:00	38	135	97	38	37	137	105	32	
17-Feb-04	13:00:00	49	194	148	47	46	191	143	47	
17-Feb-04	14:00:00	36	140	98	41	39	154	114	40	
17-Feb-04	15:00:00	34	174	125	49	37	181	134	47	
17-Feb-04	16:00:00	36	382	269	113	22	68	43	24	
17-Feb-04	17:00:00	34	294	190	104	23	55	31	24	
17-Feb-04	18:00:00	37	248	182	66	25	146	101	46	
17-Feb-04	19:00:00	34	244	191	53	33	402	326	76	
17-Feb-04	20:00:00	37	297	235	62	61	647	500	147	
17-Feb-04	21:00:00	46	328	264	64	52	464	393	71	
17-Feb-04	22:00:00	47	428	377	51	44	388	342	46	
17-Feb-04	23:00:00	61	631	575	55	44	475	435	40	
18-Feb-04	0:00:00	62	558	487	72	48	610	525	85	
18-Feb-04	1:00:00	70	655	590	65	54	467	418	49	
18-Feb-04	2:00:00	70	555	494	61	53	372	321	51	
18-Feb-04	3:00:00	56	643	585	59	49	599	521	78	
18-Feb-04	4:00:00	82	948	814	134	59	673	607	66	
18-Feb-04	5:00:00	45	598	463	135	41	245	177	68	
18-Feb-04	6:00:00	45	555	406	149	33	129	83	46	
18-Feb-04	7:00:00	44	471	375	95	32	236	170	66	
18-Feb-04	8:00:00	31	286	216	71	30	201	157	44	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Feb-04	9:00:00	23	106	76	30	18	148	117	31	
18-Feb-04	10:00:00	46	511	427	84	35	302	256	46	
18-Feb-04	11:00:00	63	1297	958	339	29	109	82	28	
18-Feb-04	12:00:00	37	324	215	109	20	72	48	25	
18-Feb-04	13:00:00	24	124	89	35	24	72	43	29	
18-Feb-04	14:00:00	31	63	41	22	18	47	24	24	
18-Feb-04	15:00:00	10	64	38	26	14	54	33	21	
18-Feb-04	16:00:00	27	133	88	45	14	86	53	32	
18-Feb-04	17:00:00	37	142	97	45	25	112	75	37	
18-Feb-04	18:00:00	23	263	171	92	34	258	190	68	
18-Feb-04	19:00:00	38	176	127	48	36	320	243	76	
18-Feb-04	20:00:00		687	594	93	46	616	544	72	
18-Feb-04	21:00:00	78	1175	1079	96	72	658	608	50	
18-Feb-04	22:00:00	77	948	835	114	58	801	741	59	
18-Feb-04	23:00:00	75	927	841	86		670	619	51	
19-Feb-04	0:00:00	84	1085	976	109	67	690	652	38	
19-Feb-04	1:00:00	83	927	840	87	64	757	699	58	
19-Feb-04	2:00:00	88	961	856	105	71	740	650	90	
19-Feb-04	3:00:00	80	925	837	89	62	672	612	59	
19-Feb-04	4:00:00	91	901	813	88	74	687	620	67	
19-Feb-04	5:00:00	97	885	776	108	75	916	855	62	
19-Feb-04	6:00:00	99	881	752	129	71	730	651	79	
19-Feb-04	7:00:00	106	975	895	80	75	961	864	97	
19-Feb-04	8:00:00	114	1027	971	56	86	1388	1323	65	
19-Feb-04	9:00:00	175	1441	1336	106	96	1039	944	95	
19-Feb-04	10:00:00	72	1047	915	131	68	516	449	67	
19-Feb-04	11:00:00	34	162	122	39	21	176	131	46	
19-Feb-04	12:00:00	27	134	90	44	28	114	78	35	
19-Feb-04	13:00:00	27	87	53	34	21	88	49	39	
19-Feb-04	14:00:00	17	122	77	45	16	76	45	31	
19-Feb-04	15:00:00	13	85	48	38	9	61	35	27	
19-Feb-04	16:00:00	22	109	69	41	13	99	63	36	
19-Feb-04	17:00:00	26	211	150	61	20	221	153	69	
19-Feb-04	18:00:00		164	112	52	24	154	100	54	
19-Feb-04	19:00:00	10	219	149	70	14	95	57	38	
19-Feb-04	20:00:00	32	367	314	53		429	375	53	
19-Feb-04	21:00:00	69	739	668	71	58	802	737	66	
19-Feb-04	22:00:00	73	892	827	65	60	832	778	54	
19-Feb-04	23:00:00	67	836	774	63	54	782	731	52	
20-Feb-04	0:00:00	75	1094	1013	81	70	928	868	61	
20-Feb-04	1:00:00	100	1084	989	95	79	964	896	68	
20-Feb-04	2:00:00	64	795	709	86	64	870	802	67	
20-Feb-04	3:00:00	94	1224	1121	103	72	992	901	91	
20-Feb-04	4:00:00	97	1266	1151	115	83	1183	1090	93	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-Feb-04	5:00:00	89	1173	1037	137	92	1134	1039	95	
20-Feb-04	6:00:00	35	447	372	76	49	731	623	108	
20-Feb-04	7:00:00	37	128	75	54	34	365	267	99	
20-Feb-04	8:00:00	28	83	43	40	25	304	211	93	
20-Feb-04	9:00:00	17	96	55	41	23	163	103	61	
20-Feb-04	10:00:00	20	49	25	24	17	79	45	34	
20-Feb-04	11:00:00	16	43	22	22	11	45	22	23	
20-Feb-04	12:00:00	12	48	24	24	12	31	14	17	
20-Feb-04	13:00:00	17	48	26	22	14	32	13	19	
20-Feb-04	14:00:00	11	54	28	26	18	36	18	18	
20-Feb-04	15:00:00	17	52	27	25	14	21	6	15	
20-Feb-04	16:00:00	19	88	53	35	15	40	15	25	
20-Feb-04	17:00:00	15	97	61	37	19	44	20	24	
20-Feb-04	18:00:00	20	86	49	37	19	60	30	30	
20-Feb-04	19:00:00	24	126	83	43	13	116	74	42	
20-Feb-04	20:00:00	24	87	47	40	18	143	93	50	
20-Feb-04	21:00:00	22	101	61	40	26	198	141	56	
20-Feb-04	22:00:00	25	125	78	47	26	298	209	89	
20-Feb-04	23:00:00	31	109	68	41	35	340	252	88	
21-Feb-04	0:00:00	33	108	66	43	31	262	185	77	
21-Feb-04	1:00:00	36	113	76	37	27	93	66	27	
21-Feb-04	2:00:00	21	99	57	42	20	41	19	22	
21-Feb-04	3:00:00	35	107	64	43	29	80	44	36	
21-Feb-04	4:00:00	36	150	103	47	32	111	72	39	
21-Feb-04	5:00:00	34	206	152	54	34	146	88	57	
21-Feb-04	6:00:00	35	304	239	64	26	177	124	53	
21-Feb-04	7:00:00	33	242	180	62	46	506	400	106	
21-Feb-04	8:00:00	29	157	107	50	46	560	420	140	
21-Feb-04	9:00:00	30	244	180	64	36	388	292	97	
21-Feb-04	10:00:00	25	136	94	42	36	148	99	50	
21-Feb-04	11:00:00	17	83	50	33	23	82	54	28	
21-Feb-04	12:00:00	15	68	41	27	13	67	43	23	
21-Feb-04	13:00:00	26	76	49	27	26	108	71	37	
21-Feb-04	14:00:00	20	196	114	82	15	49	29	20	
21-Feb-04	15:00:00	14	93	59	33	16	92	58	34	
21-Feb-04	16:00:00	23	158	109	48	14	62	37	26	
21-Feb-04	17:00:00	20	247	177	70	9	44	24	21	
21-Feb-04	18:00:00	27	230	159	71	18	44	23	21	
21-Feb-04	19:00:00	27	239	161	78	20	60	33	27	
21-Feb-04	20:00:00	24	343	262	82	16	85	52	33	
21-Feb-04	21:00:00	45	447	379	68	24	237	186	51	
21-Feb-04	22:00:00	38	517	414	103	29	325	242	83	
21-Feb-04	23:00:00	37	331	255	76	37	653	492	161	
22-Feb-04	0:00:00	41	289	222	67	36	579	426	153	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
22-Feb-04	1:00:00	37	294	228	66	36	452	342	110	
22-Feb-04	2:00:00	37	329	266	63	43	517	371	146	
22-Feb-04	3:00:00	39	387	307	79	61	620	463	158	
22-Feb-04	4:00:00	44	301	229	72	61	717	529	187	
22-Feb-04	5:00:00	47	403	349	55	35	553	415	139	
22-Feb-04	6:00:00	55	379	324	55	47	763	573	190	
22-Feb-04	7:00:00	31	387	327	60	55	772	551	221	
22-Feb-04	8:00:00	41	312	264	48	30	482	377	106	
22-Feb-04	9:00:00	33	269	221	48	35	338	240	98	
22-Feb-04	10:00:00	29	283	200	83	13	56	30	26	
22-Feb-04	11:00:00	24	596	396	199	16	82	46	36	
22-Feb-04	12:00:00	45	1062	654	408	7	31	17	15	
22-Feb-04	13:00:00	25	135	82	53	14	17	9	8	
22-Feb-04	14:00:00	17	167	93	74	9	26	14	12	
22-Feb-04	15:00:00	15	105	67	38	4	26	12	15	
22-Feb-04	16:00:00	16	141	90	51	22	67	33	34	
22-Feb-04	17:00:00	13	106	55	51	5	59	31	29	
22-Feb-04	18:00:00	20	114	77	37	22	31	13	17	
22-Feb-04	19:00:00	15	65	36	29	17	48	27	21	
22-Feb-04	20:00:00	25	288	251	37	33	269	218	51	
22-Feb-04	21:00:00	56	515	465	50	26	280	231	49	
22-Feb-04	22:00:00	42	555	491	64	37	583	485	97	
22-Feb-04	23:00:00	54	666	581	84	36	649	570	79	
23-Feb-04	0:00:00	47	646	571	75	46	936	809	127	
23-Feb-04	1:00:00	52	710	630	80	46	848	736	112	
23-Feb-04	2:00:00	51	723	614	110	41	530	458	72	
23-Feb-04	3:00:00	58	779	680	99	43	588	506	82	
23-Feb-04	4:00:00	52	849	747	102	48	619	543	77	
23-Feb-04	5:00:00	70	765	633	132	37	342	312	30	
23-Feb-04	6:00:00	71	880	769	111	45	463	429	34	
23-Feb-04	7:00:00	46	784	663	121	35	268	250	19	
23-Feb-04	8:00:00	40	352	310	43	27	213	194	19	
23-Feb-04	9:00:00	59	290	252	38	38	241	219	23	
23-Feb-04	10:00:00	30	121	93	28	23	94	64	31	
23-Feb-04	11:00:00	21	95	64	31	21	64	38	26	
23-Feb-04	12:00:00	26	106	62	45	24	185	102	83	
23-Feb-04	13:00:00	30	72	46	26	23	35	16	19	
23-Feb-04	14:00:00	27	93	63	30	20	75	41	34	
23-Feb-04	15:00:00	22	134	92	42	30	118	81	38	
23-Feb-04	16:00:00	26	144	98	46	21	129	85	45	
23-Feb-04	17:00:00	27	143	96	47	27	142	98	44	
23-Feb-04	18:00:00	29	132	91	41	22	137	94	43	
23-Feb-04	19:00:00	34	225	180	45	35	219	175	43	
23-Feb-04	20:00:00	29	295	243	52	30	157	120	37	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Feb-04	21:00:00	46	255	205	50	23	182	146	35	
23-Feb-04	22:00:00	46	326	259	67	40	291	240	52	
23-Feb-04	23:00:00	49	489	440	49	40	345	300	45	
24-Feb-04	0:00:00	69	536	490	46	49	437	401	36	
24-Feb-04	1:00:00	58	482	439	42	44	353	321	32	
24-Feb-04	2:00:00	61	678	569	109	43	395	367	28	
24-Feb-04	3:00:00	41	376	335	41	44	404	352	52	
24-Feb-04	4:00:00	56	514	439	74	35	322	285	36	
24-Feb-04	5:00:00	51	440	385	55	51	355	302	53	
24-Feb-04	6:00:00	47	655	576	79	52	599	518	81	
24-Feb-04	7:00:00		693	607	87	49	433	390	44	
24-Feb-04	8:00:00	32	342	286	56	45	346	292	54	
24-Feb-04	9:00:00	54	688	590	98	30	292	261	31	
24-Feb-04	10:00:00	50	377	332	45	40	317	284	33	
24-Feb-04	11:00:00	56	402	331	71	40	245	213	32	
24-Feb-04	12:00:00	44	324	272	52	36	243	210	34	
24-Feb-04	13:00:00		157	112	45	27	75	49	25	
24-Feb-04	14:00:00	25	66	40	26	22	82	47	35	
24-Feb-04	15:00:00	15	40	18	21	19	80	57	23	
24-Feb-04	16:00:00	24	31	13	18	23	19	5	13	
24-Feb-04	17:00:00	26	34	11	23	22	32	10	21	
24-Feb-04	18:00:00	30	382	274	107	21	69	28	41	
24-Feb-04	19:00:00	29	668	498	170	18	41	18	23	
24-Feb-04	20:00:00	25	341	245	97	31	91	40	51	
24-Feb-04	21:00:00	38	271	214	57	28	90	46	44	
24-Feb-04	22:00:00	38	228	170	58	26	107	59	48	
24-Feb-04	23:00:00	30	216	159	57	18	53	21	32	
25-Feb-04	0:00:00	38	327	240	87	24	179	117	61	
25-Feb-04	1:00:00	32	323	234	88	31	198	129	69	
25-Feb-04	2:00:00	30	306	241	64	34	259	177	82	
25-Feb-04	3:00:00	37	421	346	75	32	322	217	104	
25-Feb-04	4:00:00	39	365	274	90	34	219	140	79	
25-Feb-04	5:00:00	46	316	249	67	31	240	155	85	
25-Feb-04	6:00:00	39	362	266	96	23	163	107	56	
25-Feb-04	7:00:00	43	379	273	106	27	169	103	66	
25-Feb-04	8:00:00	40	541	403	137	28	168	112	56	
25-Feb-04	9:00:00	34	549	329	220	17	75	44	31	
25-Feb-04	10:00:00	20	318	208	110	17	24	12	12	
25-Feb-04	11:00:00	29	258	178	80	18	26	12	14	
25-Feb-04	12:00:00	20	171	101	70	14	93	60	33	
25-Feb-04	13:00:00	27	49	28	21		44	27	17	
25-Feb-04	14:00:00	20	31	12	19	16	25	10	14	
25-Feb-04	15:00:00	18	103	56	46	15	16	4	12	
25-Feb-04	16:00:00	21	45	21	24	16	45	18	27	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Feb-04	17:00:00	19	50	17	34	15	17	2	14	
25-Feb-04	18:00:00	16	95	48	47	19	41	9	32	
25-Feb-04	19:00:00	17	105	56	49	13	104	50	54	
25-Feb-04	20:00:00	28	237	167	70	19	395	245	150	
25-Feb-04	21:00:00	19	316	222	94	23	399	243	156	
25-Feb-04	22:00:00	36	394	284	110	12	331	206	125	
25-Feb-04	23:00:00	40	468	355	113	17	377	236	141	
26-Feb-04	0:00:00	42	547	439	108	24	666	374	292	
26-Feb-04	1:00:00	42	591	446	145	29	728	454	274	
26-Feb-04	2:00:00	45	630	474	156	47	551	324	227	
26-Feb-04	3:00:00	29	362	278	84	33	652	471	180	
26-Feb-04	4:00:00	40	512	389	123	33	529	315	214	
26-Feb-04	5:00:00	30	620	444	176	29	372	225	146	
26-Feb-04	6:00:00	31	684	487	196	27	614	412	202	
26-Feb-04	7:00:00	42	551	388	163	21	355	212	143	
26-Feb-04	8:00:00	38	611	432	179	21	293	161	132	
26-Feb-04	9:00:00	26	320	240	80	25	311	171	140	
26-Feb-04	10:00:00	39	702	558	144	33	160	89	72	
26-Feb-04	11:00:00	20	282	192	89	3	49	19	30	
26-Feb-04	12:00:00	11	142	92	49	5	32	10	22	
26-Feb-04	13:00:00	9	94	57	37	8	34	11	23	
26-Feb-04	14:00:00	15	110	65	44	3	33	14	19	
26-Feb-04	15:00:00	17	98	54	44	7	23	5	18	
26-Feb-04	16:00:00	10	263	177	86	6	27	7	19	
26-Feb-04	17:00:00	33	338	237	101	8	46	16	31	
26-Feb-04	18:00:00	10	198	122	76	5	39	10	30	
26-Feb-04	19:00:00	43	408	303	105	8	52	20	32	
26-Feb-04	20:00:00	35	370	264	105	15	51	15	36	
26-Feb-04	21:00:00	53	597	430	167	5	30	4	25	
26-Feb-04	22:00:00	52	561	401	160	12	52	17	34	
26-Feb-04	23:00:00	57	534	389	145	8	178	103	75	
27-Feb-04	0:00:00	52	637	469	168	22	437	292	145	
27-Feb-04	1:00:00	53	594	459	135	24	252	148	104	
27-Feb-04	2:00:00	61	604	460	144	13	196	99	97	
27-Feb-04	3:00:00	59	580	446	133	21	246	149	98	
27-Feb-04	4:00:00	67	851	655	196	21	142	75	67	
27-Feb-04	5:00:00	68	720	543	176	3	17	-2	19	
27-Feb-04	6:00:00	71	749	586	164	6	25	2	24	
27-Feb-04	7:00:00	61	636	479	157	10	39	13	26	
27-Feb-04	8:00:00	43	520	400	120	5	47	21	26	0.13
27-Feb-04	9:00:00	47	540	379	161	11	56	32	24	0.1
27-Feb-04	10:00:00	29	478	313	165	5	25	9	17	0.08
27-Feb-04	11:00:00	37	493	330	163	5	13	4	9	0.08
27-Feb-04	12:00:00	16	168	105	63		18	9	9	0.1

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Feb-04	13:00:00	7	88	60	28	3	41	22	19	0.1
27-Feb-04	14:00:00	15	62	36	26	17	81	46	36	0.1
27-Feb-04	15:00:00	12	58	32	26	9	63	31	33	0.08
27-Feb-04	16:00:00	14	37	20	17	3	14	5	9	0.1
27-Feb-04	17:00:00	8	33	15	17	18	37	20	17	0.1
27-Feb-04	18:00:00	14	56	30	25		29	9	20	0.2
27-Feb-04	19:00:00	4	95	65	30	23	167	106	61	0.15
27-Feb-04	20:00:00	21	247	175	72	20	95	64	31	0.45
27-Feb-04	21:00:00	31	333	291	41	19	305	256	49	0.5
27-Feb-04	22:00:00	36	436	389	47	30	422	347	75	0.55
27-Feb-04	23:00:00	27	401	362	39	37	407	309	98	0.75
28-Feb-04	0:00:00	34	341	305	37	36	367	284	83	0.93
28-Feb-04	1:00:00	49	442	394	49	39	269	210	60	0.95
28-Feb-04	2:00:00	50	510	463	48	51	607	510	97	0.63
28-Feb-04	3:00:00	42	480	425	55	40	540	452	88	0.45
28-Feb-04	4:00:00	29	410	355	55	34	403	340	63	0.35
28-Feb-04	5:00:00	40	377	327	50	23	283	242	41	0.35
28-Feb-04	6:00:00	46	554	488	66	26	305	269	36	0.5
28-Feb-04	7:00:00	57	625	544	81	28	286	253	33	0.43
28-Feb-04	8:00:00	62	513	457	56	41	331	296	36	0.5
28-Feb-04	9:00:00	65	581	534	47	67	570	516	54	0.6
28-Feb-04	10:00:00	58	460	407	53	60	795	656	139	0.38
28-Feb-04	11:00:00	30	183	128	54	40	179	119	61	0.2
28-Feb-04	12:00:00	23	194	126	68	27	129	81	48	0.2
28-Feb-04	13:00:00	15	50	26	24	25	107	62	45	0.2
28-Feb-04	14:00:00	16	63	36	27	15	88	54	34	0.2
28-Feb-04	15:00:00	6	52	27	25	12	46	22	24	0.15
28-Feb-04	16:00:00	18	95	61	34	11	71	32	39	0.1
28-Feb-04	17:00:00	15	122	82	41	11	186	102	84	0.13
28-Feb-04	18:00:00	16	227	131	96	23	296	223	73	0.18
28-Feb-04	19:00:00	15	112	76	36	23	212	150	62	0.13
28-Feb-04	20:00:00	38	639	574	65	33	468	417	50	0.18
28-Feb-04	21:00:00	53	748	690	58	39	573	527	46	0.78
28-Feb-04	22:00:00	64	939	846	93	50	708	634	74	0.7
28-Feb-04	23:00:00	67	772	706	66	47	656	587	69	0.7
29-Feb-04	0:00:00	75	937	858	79	56	665	612	54	0.73
29-Feb-04	1:00:00	63	930	865	65	55	838	775	64	0.7
29-Feb-04	2:00:00	78	880	805	75	60	807	740	67	1.4
29-Feb-04	3:00:00	75	834	764	70	55	806	730	76	1.28
29-Feb-04	4:00:00	56	657	584	73	62	610	526	84	1.25
29-Feb-04	5:00:00	56	591	519	72	32	359	308	52	0.78
29-Feb-04	6:00:00	65	537	480	57	47	436	381	56	0.6
29-Feb-04	7:00:00	54	418	364	55	51	514	435	79	0.65
29-Feb-04	8:00:00	64	584	518	66	44	577	499	78	0.7

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Feb-04	9:00:00	80	729	624	105	55	695	574	120	1
29-Feb-04	10:00:00	55	396	318	78	37	353	280	73	1
29-Feb-04	11:00:00	22	159	117	41	29	190	134	56	0.63
29-Feb-04	12:00:00		121	77	44	24	120	81	39	0.3
29-Feb-04	13:00:00	5	74	43	31	12	81	48	33	0.15
29-Feb-04	14:00:00	16	77	43	34	17	192	105	87	0.1
29-Feb-04	15:00:00	27	136	86	51	17	106	60	46	0.08
29-Feb-04	16:00:00	12	77	40	37	11	52	29	23	0.1
29-Feb-04	17:00:00	19	134	84	50	15	122	79	43	0.1
29-Feb-04	18:00:00	12	150	92	58	18	132	83	49	0.23
29-Feb-04	19:00:00	26	208	138	69	22	354	264	90	0.1
29-Feb-04	20:00:00	17	179	113	66	40	453	380	74	0.23
29-Feb-04	21:00:00	35	626	571	55	49	557	497	60	0.28
29-Feb-04	22:00:00	60	993	897	96	57	779	711	68	0.6
29-Feb-04	23:00:00	62	957	862	95	51	700	637	63	0.75
1-Mar-04	0:00:00	68	950	883	67	60	387	331	56	0.85
1-Mar-04	1:00:00	65	743	683	61	65	458	411	47	0.68
1-Mar-04	2:00:00	60	702	631	71	67	342	303	40	0.5
1-Mar-04	3:00:00	43	595	532	63	53	433	387	46	0.28
1-Mar-04	4:00:00	45	464	415	49	64	319	286	33	0.33
1-Mar-04	5:00:00	46	464	414	49	74	331	294	37	0.28
1-Mar-04	6:00:00	49	484	417	67	68	341	302	39	0.28
1-Mar-04	7:00:00	52	450	398	51	66	326	294	32	0.33
1-Mar-04	8:00:00	62	731	610	121	49	249	217	33	0.48
1-Mar-04	9:00:00	38	647	521	126	37	167	142	25	0.65
1-Mar-04	10:00:00	20	340	250	90	9	109	79	30	0.68
1-Mar-04	11:00:00	24	64	38	27	16	55	34	21	0.15
1-Mar-04	12:00:00	12	33	16	17	10	14	5	9	0.1
1-Mar-04	13:00:00	13	23	10	12	5	8	2	5	0.13
1-Mar-04	14:00:00	11	22	8	14	7				0.13
1-Mar-04	15:00:00	12	36	16	20	7	20	8	12	0.18
1-Mar-04	16:00:00	10	29	11	17	6				0.18
1-Mar-04	17:00:00	14	35	14	21	9	9	1	7	0.23
1-Mar-04	18:00:00	17	81	40	40	15	36	15	21	0.18
1-Mar-04	19:00:00	15	74	42	31	6	44	20	24	0.1
1-Mar-04	20:00:00	9	65	33	32	14	48	23	25	0.1
1-Mar-04	21:00:00	9	60	29	31	10	44	23	21	0.08
1-Mar-04	22:00:00	8	88	50	38	12	72	40	32	0.08
1-Mar-04	23:00:00	20	100	60	40	10	153	101	53	0.1
2-Mar-04	0:00:00	5	128	83	45	23	242	169	72	0.1
2-Mar-04	1:00:00	21	152	102	50	29	332	237	96	0.15
2-Mar-04	2:00:00	27	135	91	43	30	263	194	70	0.13
2-Mar-04	3:00:00	16	140	91	48	19	276	198	78	0.1
2-Mar-04	4:00:00	18	130	90	40	32	385	288	96	0.13

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
2-Mar-04	5:00:00	30	155	104	51	22	368	274	95	0.15
2-Mar-04	6:00:00	11	158	113	45	39	408	308	100	0.18
2-Mar-04	7:00:00	12	114	71	42		306	233	73	0.15
2-Mar-04	8:00:00	24	172	122	49	23	314	241	73	0.18
2-Mar-04	9:00:00	21	175	128	47	20	264	206	58	0.2
2-Mar-04	10:00:00	4	162	111	51	27	201	140	62	0.43
2-Mar-04	11:00:00	19	163	114	49	15	181	130	52	0.15
2-Mar-04	12:00:00	9	129	84	45	8	114	70	44	0.15
2-Mar-04	13:00:00	9	26	11	15	7	10	2	8	0.04
2-Mar-04	14:00:00	2	31	14	17	6	55	28	27	0.04
2-Mar-04	15:00:00	20	78	40	38	9	76	41	35	0.04
2-Mar-04	16:00:00	8				6				0.04
2-Mar-04	17:00:00	4				6	132	87	45	0.06
2-Mar-04	18:00:00	14				14	87	51	36	0.06
2-Mar-04	19:00:00	14				12	83	47	36	0.1
2-Mar-04	20:00:00	20					210	166	44	0.28
2-Mar-04	21:00:00	34				28	402	359	42	0.28
2-Mar-04	22:00:00	29				30	470	426	44	0.24
2-Mar-04	23:00:00	36				38	387	338	48	0.35
3-Mar-04	0:00:00	31				31	233	165	67	0.44
3-Mar-04	1:00:00	24				36	265	174	91	0.16
3-Mar-04	2:00:00	18				20	93	51	42	0.06
3-Mar-04	3:00:00	21				13	78	46	32	0.04
3-Mar-04	4:00:00	31				19	86	37	49	0.1
3-Mar-04	5:00:00	40				9	72	37	36	0.1
3-Mar-04	6:00:00	67				18	95	53	41	0.2
3-Mar-04	7:00:00	95				27	236	135	101	0.36
3-Mar-04	8:00:00	101				28	354	261	93	0.1
3-Mar-04	9:00:00	75				14	75	49	26	0.08
3-Mar-04	10:00:00	32				11	63	39	23	0.1
3-Mar-04	11:00:00	43				17	48	27	20	0.12
3-Mar-04	12:00:00	20				5	32	15	17	0.14
3-Mar-04	13:00:00	28				22	64	36	27	0.16
3-Mar-04	14:00:00	25					93	67	26	0.14
3-Mar-04	15:00:00	20				23	69	43	25	0.14
3-Mar-04	16:00:00	18				16	65	38	27	0.16
3-Mar-04	17:00:00	19				14	145	102	43	0.16
3-Mar-04	18:00:00	23				19	106	62	44	0.16
3-Mar-04	19:00:00	35				28	116	72	44	0.24
3-Mar-04	20:00:00	35				28	105	78	27	0.26
3-Mar-04	21:00:00	46				22	197	169	28	0.36
3-Mar-04	22:00:00	45				38	389	313	77	0.4
3-Mar-04	23:00:00	46				35	487	389	98	0.3
4-Mar-04	0:00:00	69				45	263	240	23	0.3

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
4-Mar-04	1:00:00	66				50	297	266	31	0.3
4-Mar-04	2:00:00	60				44	358	324	34	0.3
4-Mar-04	3:00:00	49				42	461	402	58	0.28
4-Mar-04	4:00:00	45				38	376	343	33	0.26
4-Mar-04	5:00:00	45				34	267	256	11	0.32
4-Mar-04	6:00:00	44				40	267	252	15	0.4
4-Mar-04	7:00:00	61				46	370	355	16	0.86
4-Mar-04	8:00:00	64				49	411	394	16	1.18
4-Mar-04	9:00:00	68				51	455	434	21	0.84
4-Mar-04	10:00:00	40				33	321	286	34	0.22
4-Mar-04	11:00:00	21				27	112	85	27	0.08
4-Mar-04	12:00:00	23				16	52	31	21	0.08
4-Mar-04	13:00:00					15	75	45	30	0.08
4-Mar-04	14:00:00	27				21	108	63	44	0.08
4-Mar-04	15:00:00	24				22	131	82	49	0.06
4-Mar-04	16:00:00	15				15	44	18	26	0.06
4-Mar-04	17:00:00	13				9	47	25	22	1.42
4-Mar-04	18:00:00	22				27	203	139	65	0.08
4-Mar-04	19:00:00	18	105	65	40	45	282	184	98	0.06
4-Mar-04	20:00:00	20	86	46	39	19	37	16	21	0.08
4-Mar-04	21:00:00	20	53	26	27	14	122	73	49	0.08
4-Mar-04	22:00:00	11	55	25	30	11	112	63	48	0.18
4-Mar-04	23:00:00	17	69	37	32	24	183	125	58	0.3
5-Mar-04	0:00:00	20	51	27	24	28	183	122	61	0.44
5-Mar-04	1:00:00	25	121	74	47	34	416	311	105	0.24
5-Mar-04	2:00:00	38	110	66	45	39	377	271	105	0.2
5-Mar-04	3:00:00	29	108	68	40	35	321	237	84	0.18
5-Mar-04	4:00:00	19	89	50	39	33	352	256	96	0.2
5-Mar-04	5:00:00	22	84	51	33	21	360	258	102	0.18
5-Mar-04	6:00:00	25	87	48	39	32	326	240	86	0.14
5-Mar-04	7:00:00	18	105	59	45	19	319	238	81	0.18
5-Mar-04	8:00:00	25	103	64	38	25	347	256	90	0.12
5-Mar-04	9:00:00	13	98	60	38	22	120	78	42	0.06
5-Mar-04	10:00:00	16	45	23	22	16	30	14	16	0.06
5-Mar-04	11:00:00	14	32	17	16	16	45	23	22	0.06
5-Mar-04	12:00:00	9	40	23	17	9	40	25	15	0.06
5-Mar-04	13:00:00	16	36	20	16	16	33	18	15	0.06
5-Mar-04	14:00:00	19	29	13	16	22	13	6	7	0.06
5-Mar-04	15:00:00	17	19	7	12	24				0.08
5-Mar-04	16:00:00	23	23	11	13	19	5	1	5	0.08
5-Mar-04	17:00:00		41	24	18	22	17	8	9	0.08
5-Mar-04	18:00:00	24	44	22	22	26	33	17	16	0.08
5-Mar-04	19:00:00	36	59	37	23	45	50	29	20	0.12
5-Mar-04	20:00:00	28	83	58	25	30	102	76	27	0.16

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-Mar-04	21:00:00	20	108	70	38	24	164	115	50	0.12
5-Mar-04	22:00:00	19	67	42	25	23	111	76	35	0.14
5-Mar-04	23:00:00	21	53	32	22	36	145	108	37	0.14
6-Mar-04	0:00:00	18	37	20	17	10	178	129	49	0.14
6-Mar-04	1:00:00	22	183	127	56	14	179	100	80	0.1
6-Mar-04	2:00:00	15	194	140	55	17	234	154	80	0.08
6-Mar-04	3:00:00	9	182	115	67	14	232	157	75	0.08
6-Mar-04	4:00:00	16	217	143	74	15	249	162	87	0.08
6-Mar-04	5:00:00	4	125	80	45	33	338	250	88	0.16
6-Mar-04	6:00:00	2	61	32	28	50	672	485	187	0.18
6-Mar-04	7:00:00	16	68	36	32	68	533	372	162	0.12
6-Mar-04	8:00:00	12	76	43	33	24	349	262	87	0.06
6-Mar-04	9:00:00	14	105	65	41	15	182	127	55	0.04
6-Mar-04	10:00:00	2	144	95	49	14	151	105	45	0.04
6-Mar-04	11:00:00	9	101	63	38	7	90	60	29	0.03
6-Mar-04	12:00:00	5	105	68	37	1	76	42	34	0.02
6-Mar-04	13:00:00	18	73	45	28	13	65	40	25	0.02
6-Mar-04	14:00:00	12	45	22	23	14	39	21	18	0.03
6-Mar-04	15:00:00	11	58	33	25	5	65	40	25	0.02
6-Mar-04	16:00:00	16	81	47	34	7	105	67	38	0.03
6-Mar-04	17:00:00	11	146	90	56	16	101	61	40	0.04
6-Mar-04	18:00:00	2	119	78	40	14	132	79	53	0.05
6-Mar-04	19:00:00	17	115	73	41	21	179	108	71	0.05
6-Mar-04	20:00:00	26	382	263	119	20	183	122	62	0.14
6-Mar-04	21:00:00	28	237	177	61	21	175	117	58	0.21
6-Mar-04	22:00:00	40	490	407	83	31	320	233	88	0.8
6-Mar-04	23:00:00	47	449	400	49	24	398	323	75	0.6
7-Mar-04	0:00:00	29	408	366	42	39	470	402	69	0.37
7-Mar-04	1:00:00	45	513	452	61	36	420	384	36	0.34
7-Mar-04	2:00:00	48	510	461	49	36	381	350	31	0.36
7-Mar-04	3:00:00	30	277	248	29	29	431	354	77	0.17
7-Mar-04	4:00:00	37	300	273	26	34	467	365	102	0.21
7-Mar-04	5:00:00	24	280	249	31	14	208	165	42	0.3
7-Mar-04	6:00:00	47	461	427	34	37	378	347	31	0.32
7-Mar-04	7:00:00	27	336	315	21	39	506	432	74	0.6
7-Mar-04	8:00:00	37	388	362	26	34	514	424	90	0.17
7-Mar-04	9:00:00		904	833	71	57	649	593	56	0.06
7-Mar-04	10:00:00	24	287	224	63	28	311	259	52	0.05
7-Mar-04	11:00:00	17	87	56	31	15	122	84	38	0.03
7-Mar-04	12:00:00	13	97	66	30	9	137	91	46	0.03
7-Mar-04	13:00:00	17	106	70	36	11	77	49	28	0.04
7-Mar-04	14:00:00	17	161	100	60	15	69	41	28	0.04
7-Mar-04	15:00:00	17	114	73	41	15	86	50	37	0.04
7-Mar-04	16:00:00	10	89	54	35	13	85	46	39	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-Mar-04	17:00:00	23	117	72	45	11	59	27	32	0.04
7-Mar-04	18:00:00	8	141	92	49	7	45	16	29	0.04
7-Mar-04	19:00:00	8	151	94	57	9	93	58	35	0.02
7-Mar-04	20:00:00	8	114	68	45	5	97	64	32	0.02
7-Mar-04	21:00:00	2	163	106	57	3	123	86	37	0.01
7-Mar-04	22:00:00	17	294	207	87	8	150	115	36	0.05
7-Mar-04	23:00:00	11	273	188	85	11	140	104	36	0.05
8-Mar-04	0:00:00	28	268	199	69	7	92	59	34	0.05
8-Mar-04	1:00:00	24	268	180	88	6	61	30	31	0.03
8-Mar-04	2:00:00	18	219	152	67		42	15	27	0.03
8-Mar-04	3:00:00	20	239	175	64	1	47	20	27	0.03
8-Mar-04	4:00:00	26	194	126	68	9	27	5	21	0.02
8-Mar-04	5:00:00	15	144	95	49	6	20	2	18	0.03
8-Mar-04	6:00:00	20	226	150	76	7	39	14	24	0.04
8-Mar-04	7:00:00	27	222	138	84	11	50	22	28	0.05
8-Mar-04	8:00:00	22	216	142	74	12	66	36	30	0.05
8-Mar-04	9:00:00	18	172	107	66	11	59	31	28	0.04
8-Mar-04	10:00:00	14	67	45	22	3	49	23	26	0.03
8-Mar-04	11:00:00	9	75	48	27	4	56	29	26	0.03
8-Mar-04	12:00:00	3	46	25	21	4	55	29	26	0.03
8-Mar-04	13:00:00	13	46	27	19	7	27	5	22	0.04
8-Mar-04	14:00:00	9	116	70	46	6	39	12	27	0.05
8-Mar-04	15:00:00	9	139	100	40	14	36	9	27	0.06
8-Mar-04	16:00:00	18	307	221	86	10	34	6	28	0.09
8-Mar-04	17:00:00	18	193	133	60	5	44	13	31	0.09
8-Mar-04	18:00:00	13	112	72	40	21	62	28	34	0.1
8-Mar-04	19:00:00	10	222	152	70	9	93	61	32	0.12
8-Mar-04	20:00:00	23	323	223	100	16	148	115	33	0.11
8-Mar-04	21:00:00	15	256	188	69	19	204	167	36	0.14
8-Mar-04	22:00:00	29	335	274	61	27	324	285	39	0.2
8-Mar-04	23:00:00	30	445	382	63	31	380	352	28	0.27
9-Mar-04	0:00:00	28	496	430	67	29	397	376	22	0.32
9-Mar-04	1:00:00	24	348	280	68	28	387	362	25	0.18
9-Mar-04	2:00:00	23	270	207	63	21	308	277	31	0.12
9-Mar-04	3:00:00	32	528	453	75	20	260	232	28	0.14
9-Mar-04	4:00:00	32	555	477	78	28	302	276	25	0.34
9-Mar-04	5:00:00	49	627	557	70	35	524	485	39	0.37
9-Mar-04	6:00:00	47	579	508	70	37	503	464	39	0.6
9-Mar-04	7:00:00	47	1373	1160	213	33	590	547	43	0.38
9-Mar-04	8:00:00	42	373	314	59	38	407	376	30	0.37
9-Mar-04	9:00:00	26	212	172	39	27	377	346	31	0.37
9-Mar-04	10:00:00	19	109	63	45	24	302	221	82	
9-Mar-04	11:00:00	33	166	112	54	11	101	66	35	
9-Mar-04	12:00:00	15	78	47	31	11	69	43	26	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-Mar-04	13:00:00	20	93	61	31	14	26	10	16	
9-Mar-04	14:00:00	16	96	59	36	16	35	12	23	
9-Mar-04	15:00:00	19	102	66	36	15	30	11	19	
9-Mar-04	16:00:00	8	113	75	39	5	18	4	14	
9-Mar-04	17:00:00	9	199	131	68	6	22	6	16	
9-Mar-04	18:00:00	30	298	205	93	4	24	4	20	
9-Mar-04	19:00:00	32	356	264	92	14	74	30	45	
9-Mar-04	20:00:00	31	390	291	99	8	39	15	24	
9-Mar-04	21:00:00	39	449	328	121	19	57	30	27	
9-Mar-04	22:00:00	25	253	185	68	13	49	25	23	
9-Mar-04	23:00:00	30	366	288	78	15	73	39	33	
10-Mar-04	0:00:00	34	383	290	93	22	101	58	44	
10-Mar-04	1:00:00	27	379	298	81	14	85	48	36	
10-Mar-04	2:00:00	34	436	343	93	21	241	148	93	
10-Mar-04	3:00:00	41	527	433	94	29	282	178	104	
10-Mar-04	4:00:00	34	616	511	104	28	327	220	107	
10-Mar-04	5:00:00	44	611	494	117	25	458	334	124	0.15
10-Mar-04	6:00:00	46	669	554	115	39	432	305	127	0.2
10-Mar-04	7:00:00	52	690	577	114	31	433	304	130	0.15
10-Mar-04	8:00:00	46	582	482	100	29	231	169	63	0.1
10-Mar-04	9:00:00	27	428	322	105	9	75	42	33	0.07
10-Mar-04	10:00:00	21	269	190	80	7	39	23	16	0.06
10-Mar-04	11:00:00	15	81	51	30	11	27	16	11	0.06
10-Mar-04	12:00:00	15	112	73	39	15	27	17	10	0.06
10-Mar-04	13:00:00	20	179	116	63	6	32	16	16	0.08
10-Mar-04	14:00:00	25	81	43	37	6	48	24	24	0.1
10-Mar-04	15:00:00	11	102	59	43	10	85	50	35	0.06
10-Mar-04	16:00:00	12	112	63	49	12	55	33	22	0.06
10-Mar-04	17:00:00	21	161	96	65	13	79	41	38	0.1
10-Mar-04	18:00:00	16	135	83	52	20	164	102	62	0.2
10-Mar-04	19:00:00	19	83	45	38	22	291	193	97	0.2
10-Mar-04	20:00:00	21	164	117	47	20	167	132	35	0.26
10-Mar-04	21:00:00	35	532	478	54	25	253	204	48	0.3
10-Mar-04	22:00:00	49	582	523	59	29	361	317	44	0.47
10-Mar-04	23:00:00	55	753	698	55	40	497	447	50	0.65
11-Mar-04	0:00:00	66	986	899	87	58	791	711	80	0.82
11-Mar-04	1:00:00	77	1120	1008	112	72	805	715	90	0.73
11-Mar-04	2:00:00	78	1275	1132	143	70	853	773	80	0.75
11-Mar-04	3:00:00	77	1139	1019	119	73	958	859	98	0.8
11-Mar-04	4:00:00	85	1355	1228	127	84	1071	976	94	0.8
11-Mar-04	5:00:00		1339	1192	147	92	1196	1076	120	0.6
11-Mar-04	6:00:00	83	1085	977	108	63	1049	879	170	0.7
11-Mar-04	7:00:00	67	996	871	124	66	868	778	90	0.85
11-Mar-04	8:00:00	110	1082	960	122	70	655	599	55	0.55

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
11-Mar-04	9:00:00	49	609	517	92	38	404	345	59	0.2
11-Mar-04	10:00:00	42	238	186	52	33	219	171	48	0.1
11-Mar-04	11:00:00	34	153	106	47	32	140	102	38	0.06
11-Mar-04	12:00:00	27	74	44	30	29	97	60	37	0.07
11-Mar-04	13:00:00	32	73	42	31	28	71	43	28	0.1
11-Mar-04	14:00:00	23	86	51	35	24	105	68	37	0.08
11-Mar-04	15:00:00	27	78	42	35	24	89	53	37	0.1
11-Mar-04	16:00:00	30	70	37	33	28	87	48	39	0.1
11-Mar-04	17:00:00	31	91	49	42	33	98	55	43	0.1
11-Mar-04	18:00:00	26	104	58	46	34	110	59	51	0.1
11-Mar-04	19:00:00	37	161	98	62	39	175	106	68	0.1
11-Mar-04	20:00:00	28	180	110	69	37	218	141	78	0.1
11-Mar-04	21:00:00	33	160	96	64	34	178	109	69	0.1
11-Mar-04	22:00:00	37	183	119	64	47	270	194	76	0.12
11-Mar-04	23:00:00	29	175	115	61	35	143	89	53	0.1
12-Mar-04	0:00:00	23	478	335	143	25	115	63	52	0.1
12-Mar-04	1:00:00	31	340	260	80	36	403	320	83	0.18
12-Mar-04	2:00:00	27	312	244	68	36	486	381	105	0.15
12-Mar-04	3:00:00	32	424	335	89	41	501	433	68	0.2
12-Mar-04	4:00:00	39	533	447	86	33	438	359	79	0.25
12-Mar-04	5:00:00	20	227	156	71	10	210	141	68	0.05
12-Mar-04	6:00:00	24	321	250	71	23	315	249	66	0.02
12-Mar-04	7:00:00	25	316	255	61	34	394	322	72	0.25
12-Mar-04	8:00:00	10	256	196	60	25	375	293	81	0.1
12-Mar-04	9:00:00	13	263	184	79	10	61	37	23	0
12-Mar-04	10:00:00	11	152	98	54	13	64	41	24	0
12-Mar-04	11:00:00	4	76	51	26	6	53	32	21	0
12-Mar-04	12:00:00	12	65	41	24	5	41	25	16	0.02
12-Mar-04	13:00:00	11	55	32	23	4	48	29	20	0.02
12-Mar-04	14:00:00	16	59	30	29	10	34	20	14	0.02
12-Mar-04	15:00:00	4	74	48	26	5	39	21	18	0.03
12-Mar-04	16:00:00	12	75	41	34	5	37	20	17	0.03
12-Mar-04	17:00:00	11	60	33	27	14	38	20	18	0.03
12-Mar-04	18:00:00		75	44	30	13	41	22	19	0.03
12-Mar-04	19:00:00	16	63	35	29	7	57	28	28	0.03
12-Mar-04	20:00:00	25	251	165	86	17	85	47	38	0.07
12-Mar-04	21:00:00	32	206	139	68	23	440	325	115	0.05
12-Mar-04	22:00:00	23	177	123	54	44	235	147	88	0.05
12-Mar-04	23:00:00	26	225	169	56	41	297	204	93	0.25
13-Mar-04	0:00:00	33	456	402	54	34	512	430	82	0.4
13-Mar-04	1:00:00	30	426	370	55	29	452	362	90	0.25
13-Mar-04	2:00:00	32	326	277	50	26	323	241	83	0.1
13-Mar-04	3:00:00	38	399	303	97	10	113	69	44	0.08
13-Mar-04	4:00:00	44	640	431	209	20	97	48	49	0.1

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
13-Mar-04	5:00:00	38	592	385	208	19	219	116	103	0.15
13-Mar-04	6:00:00	49	489	363	125	27	241	148	93	0.2
13-Mar-04	7:00:00	46	335	255	79	25	279	186	92	0.1
13-Mar-04	8:00:00	45	543	407	136	11	44	22	23	0.1
13-Mar-04	9:00:00	29	323	225	98	9	64	42	22	0.07
13-Mar-04	10:00:00	14	170	113	58	15	41	22	19	0.07
13-Mar-04	11:00:00	28	307	215	92	11	34	18	16	0.07
13-Mar-04	12:00:00	23	123	75	48	13	30	16	14	0.1
13-Mar-04	13:00:00	12	58	35	23	17	34	18	15	0.1
13-Mar-04	14:00:00	9	45	24	21	14	27	13	15	0.1
13-Mar-04	15:00:00	17	30	14	17	8	17	6	10	0.14
13-Mar-04	16:00:00	9	44	22	21	7	19	7	12	0.14
13-Mar-04	17:00:00	23	63	32	30	14	39	15	25	0.15
13-Mar-04	18:00:00	13	121	70	51	13	171	89	81	0.25
13-Mar-04	19:00:00	26	218	148	70	13	86	37	49	0.48
13-Mar-04	20:00:00	15	382	301	81	23	170	120	50	0.63
13-Mar-04	21:00:00	42	701	583	118	27	364	310	53	0.55
13-Mar-04	22:00:00	42	475	421	55	32	479	422	57	0.4
13-Mar-04	23:00:00	39	480	417	63	44	956	756	200	0.39
14-Mar-04	0:00:00	49	376	318	57		546	435	112	0.3
14-Mar-04	1:00:00	44	345	278	67	28	435	327	107	0.23
14-Mar-04	2:00:00	36	709	619	90	24	389	311	78	0.23
14-Mar-04	3:00:00		833	656	178	32	324	251	74	0.24
14-Mar-04	4:00:00	38	690	589	101	41	257	211	46	0.25
14-Mar-04	5:00:00	38	444	393	51	63	365	297	69	0.27
14-Mar-04	6:00:00	40	492	429	63	66	369	322	47	0.35
14-Mar-04	7:00:00	48	606	528	78	77	497	422	75	0.5
14-Mar-04	8:00:00	69	595	525	69	118	441	389	52	0.58
14-Mar-04	9:00:00	74	727	623	104	130	658	557	101	0.12
14-Mar-04	10:00:00	22	212	146	65	145	364	266	98	0.11
14-Mar-04	11:00:00	22	102	56	46	155	311	208	103	0.12
14-Mar-04	12:00:00	28	66	33	33	170	376	269	108	0.1
14-Mar-04	13:00:00	26	105	59	46	169	177	101	76	0.1
14-Mar-04	14:00:00	37	108	60	47	181	231	143	87	0.17
14-Mar-04	15:00:00	40	110	55	55	187	248	153	95	0.18
14-Mar-04	16:00:00	40	114	56	58	135	210	124	86	0.22
14-Mar-04	17:00:00	41	143	71	72	100	247	155	92	0.24
14-Mar-04	18:00:00	49	168	99	69	91	224	128	97	0.22
14-Mar-04	19:00:00	53	151	81	70	44	105	44	61	0.3
14-Mar-04	20:00:00	42	205	129	76	45	219	141	79	0.47
14-Mar-04	21:00:00	48	254	178	76	56	280	199	81	0.37
14-Mar-04	22:00:00	46	256	183	73	53	331	228	103	0.38
14-Mar-04	23:00:00	53	364	262	102	53	266	195	70	0.32
15-Mar-04	0:00:00	43	203	134	68	59	272	194	78	0.27

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
15-Mar-04	1:00:00	39	137	79	58	53	252	187	66	0.16
15-Mar-04	2:00:00	38	654	535	119	47	228	168	60	0.09
15-Mar-04	3:00:00	75	1672	1260	412	27	29	10	19	0.06
15-Mar-04	4:00:00	69	1530	1135	395	30				0.05
15-Mar-04	5:00:00	67	1617	1184	433	18				0.05
15-Mar-04	6:00:00	52	1507	1143	364	16				0.06
15-Mar-04	7:00:00	69	1885	1344	541	19				0.08
15-Mar-04	8:00:00	62	1320	958	362	12	20	1	19	0.06
15-Mar-04	9:00:00	23	163	108	55	20				0.07
15-Mar-04	10:00:00	18	135	83	52	6	64	34	30	0.06
15-Mar-04	11:00:00	21	189	116	73	20	9	1	8	0.06
15-Mar-04	12:00:00	21	33	14	18	18				0.07
15-Mar-04	13:00:00	20	52	26	26	19	13	1	13	0.11
15-Mar-04	14:00:00	23	43	14	29	24	54	15	38	0.12
15-Mar-04	15:00:00	35	38	14	23	29	32	11	21	0.14
15-Mar-04	16:00:00	26	126	67	59	22	93	22	72	0.12
15-Mar-04	17:00:00	23	87	52	35	20	34	9	24	0.14
15-Mar-04	18:00:00	29	144	93	50	29	39	13	26	0.18
15-Mar-04	19:00:00	36	150	100	50	27	68	32	36	0.22
15-Mar-04	20:00:00	36	279	195	84	26	76	44	32	0.22
15-Mar-04	21:00:00	50	262	192	70	37	142	78	64	0.26
15-Mar-04	22:00:00	50	248	196	52	32	200	132	68	0.26
15-Mar-04	23:00:00	47	664	463	202	43	143	94	49	0.24
16-Mar-04	0:00:00	60	437	291	145	36	128	85	44	0.22
16-Mar-04	1:00:00	59	377	252	125	45	210	144	66	0.26
16-Mar-04	2:00:00	48	236	188	47	50	334	265	69	0.34
16-Mar-04	3:00:00	58	355	281	74	45	404	323	81	0.34
16-Mar-04	4:00:00	40	281	237	44	42	360	276	84	0.26
16-Mar-04	5:00:00	33	179	144	35	33	305	244	61	0.24
16-Mar-04	6:00:00	15	85	54	31	29	376	289	87	0.22
16-Mar-04	7:00:00	15	53	29	24	30	309	221	89	0.18
16-Mar-04	8:00:00	9	89	59	30	22	298	226	72	0.14
16-Mar-04	9:00:00	11	96	63	33	30	157	110	47	0.28
16-Mar-04	10:00:00	29	110	74	36	24	153	113	41	0.26
16-Mar-04	11:00:00	25	130	91	39	28	161	118	44	0.12
16-Mar-04	12:00:00	4	81	50	31		99	66	33	0.08
16-Mar-04	13:00:00	5	69	42	27	7	78	49	29	0.06
16-Mar-04	14:00:00	3	66	40	26	8	77	46	30	0.06
16-Mar-04	15:00:00	9	88	51	37	10	96	63	33	0.06
16-Mar-04	16:00:00	15	95	55	40	5	67	41	26	0.06
16-Mar-04	17:00:00	17	139	90	49	8	34	17	17	0.04
16-Mar-04	18:00:00	22	153	98	56	19	16	4	12	0.04
16-Mar-04	19:00:00	14	243	172	71	14	24	9	16	0.12
16-Mar-04	20:00:00	14	208	146	62	14	243	137	106	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Mar-04	21:00:00	25	165	109	55	12	49	19	30	0.04
16-Mar-04	22:00:00	29	194	140	53	18	75	41	34	0.06
16-Mar-04	23:00:00	21	177	135	43	13	89	54	35	0.1
17-Mar-04	0:00:00	44	386	329	58	26	561	465	95	0.12
17-Mar-04	1:00:00	24	265	199	67	34	257	181	76	0.2
17-Mar-04	2:00:00	19	270	211	59	24	423	297	126	0.08
17-Mar-04	3:00:00	17	191	136	56	27	239	176	63	0.08
17-Mar-04	4:00:00	22	223	166	57	36	248	153	95	0.16
17-Mar-04	5:00:00	35	318	257	61	39	529	404	125	0.12
17-Mar-04	6:00:00	25	194	143	51	41	530	394	136	0.22
17-Mar-04	7:00:00	42	377	288	89	67	643	492	151	0.12
17-Mar-04	8:00:00	27	233	166	68	48	359	267	92	0.1
17-Mar-04	9:00:00	23	226	167	58	23	251	182	68	0.08
17-Mar-04	10:00:00	26	175	121	54	30	293	194	100	0.04
17-Mar-04	11:00:00	17	114	79	35	21	139	97	41	0.04
17-Mar-04	12:00:00	22	91	62	29	15	96	63	33	0.04
17-Mar-04	13:00:00	20	91	58	33	17	78	49	29	0.04
17-Mar-04	14:00:00	12	61	35	26	15	55	32	22	0.06
17-Mar-04	15:00:00	12	65	37	28	11	87	53	34	0.08
17-Mar-04	16:00:00	11	110	64	46	16	72	43	29	0.06
17-Mar-04	17:00:00	23	145	95	50	15	95	62	34	0.08
17-Mar-04	18:00:00	23	148	96	52	17	155	102	54	0.1
17-Mar-04	19:00:00	20	420	266	153	22	259	194	65	0.16
17-Mar-04	20:00:00	20	247	180	67	26	349	267	82	0.36
17-Mar-04	21:00:00	33	436	372	64	40	454	395	59	0.5
17-Mar-04	22:00:00	36	603	523	80	42	613	547	66	0.42
17-Mar-04	23:00:00	43	643	551	92	36	625	543	82	0.44
18-Mar-04	0:00:00	45	635	553	83	42	744	658	86	0.44
18-Mar-04	1:00:00	52	754	664	89	42	704	613	91	0.36
18-Mar-04	2:00:00	49	735	658	77	42	735	648	87	0.48
18-Mar-04	3:00:00	49	724	621	103	60	645	523	122	0.3
18-Mar-04	4:00:00	55	949	765	184	42	546	439	108	0.3
18-Mar-04	5:00:00	45	936	733	203	56	474	386	88	0.28
18-Mar-04	6:00:00	70	911	681	230	30	443	350	93	0.12
18-Mar-04	7:00:00	34	372	269	102	28	174	119	54	0.08
18-Mar-04	8:00:00	20	376	244	131	11	73	32	41	0.12
18-Mar-04	9:00:00	30	368	252	117	14	110	56	54	0.1
18-Mar-04	10:00:00	12	101	61	39	11	92	59	33	0.06
18-Mar-04	11:00:00	2	151	102	49		38	13	25	0.06
18-Mar-04	12:00:00	9	111	64	47		40	21	19	0.1
18-Mar-04	13:00:00	15	98	59	39	12	100	60	41	0.16
18-Mar-04	14:00:00	16	118	76	41	14	136	97	38	0.12
18-Mar-04	15:00:00	19	121	84	37	15	122	79	43	0.14
18-Mar-04	16:00:00	13	104	69	35	15	100	60	40	0.14

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Mar-04	17:00:00	21	104	58	45	21	99	56	43	0.15
18-Mar-04	18:00:00	28	134	84	50	22	134	78	56	0.15
18-Mar-04	19:00:00	35	120	69	51	35	107	57	50	0.15
18-Mar-04	20:00:00	22	114	68	46	30	107	63	45	0.27
18-Mar-04	21:00:00	38	220	157	63	37	260	177	84	0.34
18-Mar-04	22:00:00	42	288	210	78	49	336	217	119	0.37
18-Mar-04	23:00:00	40	260	200	60	44	379	270	109	0.37
19-Mar-04	0:00:00	46	401	324	77	53	561	455	106	0.37
19-Mar-04	1:00:00	67	602	518	84	44	447	371	76	0.41
19-Mar-04	2:00:00	47	432	367	65	55	563	522	40	0.25
19-Mar-04	3:00:00	62	639	551	87	41	487	433	54	0.19
19-Mar-04	4:00:00	62	772	682	89	31	418	383	35	0.26
19-Mar-04	5:00:00	65	678	606	72	30	410	352	58	0.31
19-Mar-04	6:00:00	76	779	688	91	45	461	402	59	0.4
19-Mar-04	7:00:00	70	588	534	53	41	453	412	41	0.74
19-Mar-04	8:00:00	51	519	474	45	34	443	388	55	0.1
19-Mar-04	9:00:00	19	231	154	77	10	64	37	27	0.02
19-Mar-04	10:00:00	11	110	65	44	4	56	27	29	0.01
19-Mar-04	11:00:00	3	35	17	18	4	17	6	11	0.02
19-Mar-04	12:00:00	15	73	44	29	2	15	6	10	0.02
19-Mar-04	13:00:00	17	57	35	23	9	100	66	34	0.02
19-Mar-04	14:00:00	19	86	49	37	18	17	5	11	0.02
19-Mar-04	15:00:00	12	62	32	29		30	13	17	0.02
19-Mar-04	16:00:00	6	26	15	11	18	10	2	8	0.02
19-Mar-04	17:00:00	14	16	5	11	6				0.02
19-Mar-04	18:00:00	14	29	10	20	10	24	4	20	0.02
19-Mar-04	19:00:00	18	64	37	27	24	90	51	39	0.04
19-Mar-04	20:00:00	22	144	103	41	23	215	168	46	0.3
19-Mar-04	21:00:00	32	395	341	54	24	258	211	47	0.19
19-Mar-04	22:00:00	33	448	396	51	22	385	327	59	0.38
19-Mar-04	23:00:00	41	566	509	57	25	432	360	72	0.36
20-Mar-04	0:00:00	35	415	369	46	27	325	283	42	0.34
20-Mar-04	1:00:00	53	634	570	64	38	452	409	43	0.76
20-Mar-04	2:00:00	48	555	499	55	51	726	611	114	0.72
20-Mar-04	3:00:00	58	792	716	76	56	586	530	56	0.67
20-Mar-04	4:00:00	45	526	455	71	22	364	329	34	0.45
20-Mar-04	5:00:00	50	542	467	75	33	707	574	133	0.57
20-Mar-04	6:00:00	50	503	442	61	34	596	490	106	0.53
20-Mar-04	7:00:00	44	575	511	64	51	492	431	60	0.65
20-Mar-04	8:00:00	47	425	371	54	27	337	295	42	0.59
20-Mar-04	9:00:00		276	229	47	46	345	265	79	0.47
20-Mar-04	10:00:00	33	356	281	76	36	351	284	67	0.42
20-Mar-04	11:00:00	21	133	93	40	29	209	156	54	0.16
20-Mar-04	12:00:00	31	123	79	45	33	173	120	53	0.14

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-Mar-04	13:00:00	33	124	81	43	26	198	128	69	0.12
20-Mar-04	14:00:00	34	112	64	48	36	203	126	77	0.12
20-Mar-04	15:00:00	27	112	59	52	28	141	82	59	0.16
20-Mar-04	16:00:00	40	106	62	45	36	124	72	52	0.16
20-Mar-04	17:00:00	37	155	95	59	35	186	112	75	0.13
20-Mar-04	18:00:00	35	296	183	113	35	65	30	34	0.1
20-Mar-04	19:00:00	22	347	229	119	9	38	11	27	0.16
20-Mar-04	20:00:00	15	163	104	59	9	180	127	53	0.25
20-Mar-04	21:00:00	9	134	91	43	20	537	412	125	0.24
20-Mar-04	22:00:00	14	94	57	37	29	484	362	123	0.34
20-Mar-04	23:00:00	28	257	189	68	31	337	266	71	0.24
21-Mar-04	0:00:00	31	291	226	65	35	465	376	89	0.11
21-Mar-04	1:00:00	6	413	283	130	14	38	19	19	0.1
21-Mar-04	2:00:00	9	350	217	133	11	53	28	25	0.05
21-Mar-04	3:00:00	16	376	264	112	16	45	24	22	0.03
21-Mar-04	4:00:00	26	547	408	139	4	21	8	13	0.03
21-Mar-04	5:00:00	25	535	359	176	6	46	24	22	0.03
21-Mar-04	6:00:00	13	528	349	179	8	60	31	29	0.07
21-Mar-04	7:00:00	28	507	357	151	10	129	78	51	0.03
21-Mar-04	8:00:00	9	352	270	83	5	50	31	18	0.01
21-Mar-04	9:00:00	10	209	144	65		28	16	12	0.05
21-Mar-04	10:00:00	16	231	155	76	7	15	8	7	0.01
21-Mar-04	11:00:00	26	845	522	323	6	29	15	14	0
21-Mar-04	12:00:00	18	143	96	47	9	9	4	5	0.01
21-Mar-04	13:00:00	30	179	126	53	8	20	13	8	0.01
21-Mar-04	14:00:00	20	164	105	59	13	19	11	8	0.01
21-Mar-04	15:00:00	14	103	67	36	20	29	11	17	0.02
21-Mar-04	16:00:00	17	200	141	59	12	20	12	9	0.02
21-Mar-04	17:00:00	20	338	202	135	14	39	19	20	0.01
21-Mar-04	18:00:00	37	413	273	141	6	38	17	21	0.01
21-Mar-04	19:00:00	21	341	248	93	1	40	20	20	0.01
21-Mar-04	20:00:00	16	295	210	85	12	47	22	25	0.01
21-Mar-04	21:00:00	24	360	252	108	11	99	66	32	0.01
21-Mar-04	22:00:00	18	293	209	84	10	29	10	19	0
21-Mar-04	23:00:00	27	378	281	97	11	26	8	17	0.11
22-Mar-04	0:00:00	30	383	289	94	8	22	4	18	0.11
22-Mar-04	1:00:00	22	191	136	56	16	34	12	22	0.03
22-Mar-04	2:00:00	28	225	164	61	7	32	10	22	0.03
22-Mar-04	3:00:00	33	220	155	64	8	26	6	19	0.07
22-Mar-04	4:00:00	16	118	79	39	14	21	4	17	0.03
22-Mar-04	5:00:00	12	121	80	41	15				0.03
22-Mar-04	6:00:00	20	73	42	31	4	22	7	15	0.04
22-Mar-04	7:00:00	23	188	132	56	19	39	17	23	0.06
22-Mar-04	8:00:00	15	155	103	53	13	63	34	29	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
22-Mar-04	9:00:00	17	103	64	39	14	95	57	37	0.06
22-Mar-04	10:00:00	15	72	40	32	16	246	158	88	0.03
22-Mar-04	11:00:00	11	69	46	23	14	132	78	54	0.02
22-Mar-04	12:00:00	17	69	47	22	21	69	40	30	0.02
22-Mar-04	13:00:00	14	20	9	11	7	74	48	26	0.03
22-Mar-04	14:00:00	14	38	23	14	10	55	33	22	0.04
22-Mar-04	15:00:00	20	32	15	17	6	46	26	19	0.05
22-Mar-04	16:00:00	18	39	21	18	13	108	55	53	0.05
22-Mar-04	17:00:00	14	70	41	29	15	49	28	21	0.04
22-Mar-04	18:00:00	6	54	27	26	11	19	5	14	0.04
22-Mar-04	19:00:00	11	126	77	50	18	47	19	29	0.06
22-Mar-04	20:00:00	15	211	144	67	6	103	58	45	0.05
22-Mar-04	21:00:00	18	329	243	86	12	88	43	45	0.03
22-Mar-04	22:00:00	13	250	179	72	21	89	49	40	0.09
22-Mar-04	23:00:00		462	389	73	22	253	201	51	0.12
23-Mar-04	0:00:00	43	494	410	84	19	253	213	40	0.18
23-Mar-04	1:00:00	38	579	507	71	22	246	205	41	0.08
23-Mar-04	2:00:00	37	413	362	51	22	273	232	41	0.15
23-Mar-04	3:00:00	43	459	401	58	28	319	269	50	0.09
23-Mar-04	4:00:00	50	859	678	181	29	286	247	38	0.1
23-Mar-04	5:00:00	54	731	615	116	28	270	226	44	0.09
23-Mar-04	6:00:00	46	600	500	100	22	244	217	28	0.31
23-Mar-04	7:00:00	49	563	481	82	33	409	360	50	0.59
23-Mar-04	8:00:00	35	559	409	150	28	296	256	40	0.47
23-Mar-04	9:00:00	35	491	395	96	26	233	190	43	0.19
23-Mar-04	10:00:00	18	190	119	71	21	242	175	67	0.13
23-Mar-04	11:00:00	14	142	86	57	11	182	110	73	0.06
23-Mar-04	12:00:00	24	113	69	45	21	83	53	30	0.07
23-Mar-04	13:00:00	11	106	59	47	13	64	40	24	0.1
23-Mar-04	14:00:00	15	63	36	27	16	122	83	39	0.11
23-Mar-04	15:00:00	14	124	68	57	12	64	40	24	0.11
23-Mar-04	16:00:00	16	91	50	41	14	69	40	30	0.15
23-Mar-04	17:00:00	21	152	99	53	8	137	81	56	0.16
23-Mar-04	18:00:00	20	131	83	48	23	204	134	70	0.19
23-Mar-04	19:00:00	26	175	112	62	22	239	162	77	0.46
23-Mar-04	20:00:00	19	355	285	70	40	471	364	107	0.58
23-Mar-04	21:00:00	49	609	538	71	41	497	431	65	0.64
23-Mar-04	22:00:00	55	698	619	80	52	616	541	75	0.72
23-Mar-04	23:00:00	73	874	782	93	50	720	619	101	0.52
24-Mar-04	0:00:00	36	497	396	101	46	802	668	134	0.31
24-Mar-04	1:00:00	44	861	622	239	44	556	404	153	0.25
24-Mar-04	2:00:00	45	594	476	119	55	563	449	113	0.32
24-Mar-04	3:00:00	48	489	412	77	45	459	368	91	0.31
24-Mar-04	4:00:00	50	648	560	87	42	461	359	102	0.33



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
24-Mar-04	5:00:00	54	561	469	92	50	681	599	82	0.36
24-Mar-04	6:00:00	66	892	766	126	56	676	569	107	0.52
24-Mar-04	7:00:00	61	799	728	71	45	712	630	82	1.18
24-Mar-04	8:00:00	73	888	780	107	70	779	708	71	0.68
24-Mar-04	9:00:00	53	381	310	71	52	566	443	123	0.12
24-Mar-04	10:00:00	42	224	161	63	31	168	119	49	0.08
24-Mar-04	11:00:00	29	154	101	54	34	145	92	53	0.07
24-Mar-04	12:00:00	24	84	50	34	25	59	29	30	0.07
24-Mar-04	13:00:00	30	105	64	41	26	74	40	34	0.08
24-Mar-04	14:00:00	33	107	65	42	24	100	56	44	0.09
24-Mar-04	15:00:00	19	146	93	53	17	122	68	54	0.09
24-Mar-04	16:00:00	26	162	102	60	27	109	59	50	0.1
24-Mar-04	17:00:00	26	143	93	50	22	90	43	47	0.13
24-Mar-04	18:00:00	21	172	104	68	32	152	82	70	0.2
24-Mar-04	19:00:00	34	200	121	79	32	221	134	87	0.2
24-Mar-04	20:00:00	31	258	171	86	31	316	205	111	0.18
24-Mar-04	21:00:00	38	305	219	86	36	353	264	89	0.22
24-Mar-04	22:00:00	40	284	191	93	38	617	459	158	0.16
24-Mar-04	23:00:00	66	452	311	141	36	528	402	126	0.24
25-Mar-04	0:00:00	41	326	233	93	45	533	401	132	0.28
25-Mar-04	1:00:00	57	523	402	121	39	232	165	67	0.18
25-Mar-04	2:00:00	53	583	512	71	43	293	231	62	0.18
25-Mar-04	3:00:00	63	673	602	71	43	340	265	75	0.16
25-Mar-04	4:00:00	64	683	613	70	45	389	326	63	0.18
25-Mar-04	5:00:00	59	621	557	65	45	388	334	54	0.34
25-Mar-04	6:00:00	62	611	558	54	59	573	512	61	0.62
25-Mar-04	7:00:00	65	679	613	66	57	709	648	61	1.04
25-Mar-04	8:00:00	87	1054	961	92	72	908	826	82	1.08
25-Mar-04	9:00:00	66	681	591	90	76	1036	908	128	0.14
25-Mar-04	10:00:00	21	134	85	49	45	409	280	130	0.1
25-Mar-04	11:00:00	24	119	72	47	31	425	291	134	0.08
25-Mar-04	12:00:00	21	94	56	39	27	293	180	114	0.1
25-Mar-04	13:00:00	22	94	58	36	25	269	186	83	0.08
25-Mar-04	14:00:00	17	112	67	45	27	120	64	55	0.08
25-Mar-04	15:00:00	20	84	49	35	20	150	88	61	0.1
25-Mar-04	16:00:00	22	114	65	50		201	123	78	0.12
25-Mar-04	17:00:00	29				28	245	170	75	0.12
25-Mar-04	18:00:00	37				33	390	260	130	0.18
25-Mar-04	19:00:00					51	562	388	174	0.3
25-Mar-04	20:00:00	16				48	389	302	86	0.76
25-Mar-04	21:00:00	47				46	585	518	67	0.76
25-Mar-04	22:00:00	37				44	497	437	60	0.54
25-Mar-04	23:00:00	28				44	418	362	56	0.54
26-Mar-04	0:00:00	23				35	242	189	53	0.54

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
26-Mar-04	1:00:00	26				43	478	426	52	0.48
26-Mar-04	2:00:00	31				43	500	447	53	0.6
26-Mar-04	3:00:00	49				51	512	459	53	0.36
26-Mar-04	4:00:00	54				43	489	440	48	0.32
26-Mar-04	5:00:00	48				40	468	410	58	0.52
26-Mar-04	6:00:00	57				67	697	646	51	0.64
26-Mar-04	7:00:00	67				63	698	649	49	1.26
26-Mar-04	8:00:00	65				67	820	759	61	0.48
26-Mar-04	9:00:00	35				33	389	328	62	0.08
26-Mar-04	10:00:00	21				20	119	76	44	0.06
26-Mar-04	11:00:00	28				10	47	25	22	0.04
26-Mar-04	12:00:00	26				16	38	18	19	0.04
26-Mar-04	13:00:00	18				6	41	20	21	0.06
26-Mar-04	14:00:00	24				10	93	56	36	0.06
26-Mar-04	15:00:00	21				8	49	26	24	0.06
26-Mar-04	16:00:00	9				10	36	16	20	0.08
26-Mar-04	17:00:00	22				11	88	50	38	0.08
26-Mar-04	18:00:00					9	75	36	39	0.08
26-Mar-04	19:00:00					16	94	49	45	0.26
26-Mar-04	20:00:00					33	221	162	60	0.7
26-Mar-04	21:00:00					39	393	341	52	0.5
26-Mar-04	22:00:00					36	384	331	53	0.6
26-Mar-04	23:00:00					28	440	385	55	0.6
27-Mar-04	0:00:00					43	406	354	52	0.62
27-Mar-04	1:00:00					32	324	273	51	0.88
27-Mar-04	2:00:00					38	429	388	41	0.8
27-Mar-04	3:00:00					46	398	359	40	0.76
27-Mar-04	4:00:00					40	449	396	53	0.36
27-Mar-04	5:00:00					32	340	311	30	0.5
27-Mar-04	6:00:00					51	589	541	48	0.64
27-Mar-04	7:00:00					53	617	574	43	0.68
27-Mar-04	8:00:00					48	538	495	42	1.34
27-Mar-04	9:00:00					85	865	776	89	0.14
27-Mar-04	10:00:00						420	316	103	0.1
27-Mar-04	11:00:00					24	203	144	59	0.06
27-Mar-04	12:00:00					13	53	29	24	0.06
27-Mar-04	13:00:00					19	50	30	20	0.04
27-Mar-04	14:00:00					6	27	11	16	0.06
27-Mar-04	15:00:00					15	59	29	30	0.06
27-Mar-04	16:00:00					13	87	47	39	0.06
27-Mar-04	17:00:00					16	82	48	33	0.08
27-Mar-04	18:00:00					23	206	123	83	0.08
27-Mar-04	19:00:00					26	116	61	55	0.2
27-Mar-04	20:00:00					22	183	128	55	0.74

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Mar-04	21:00:00					49	404	343	61	0.5
27-Mar-04	22:00:00					36	360	303	56	0.84
27-Mar-04	23:00:00					45	449	399	50	0.65
28-Mar-04	0:00:00					47	392	346	46	0.48
28-Mar-04	1:00:00					32	270	231	39	0.42
28-Mar-04	2:00:00					41	369	327	42	0.38
28-Mar-04	3:00:00					42	328	295	33	0.32
28-Mar-04	4:00:00					36	207	182	25	0.32
28-Mar-04	5:00:00					27	190	167	23	0.32
28-Mar-04	6:00:00					33	234	214	20	0.42
28-Mar-04	7:00:00					49	394	366	27	0.64
28-Mar-04	8:00:00					48	441	411	30	0.76
28-Mar-04	9:00:00					91	561	477	84	0.32
28-Mar-04	10:00:00					34	226	179	47	0.12
28-Mar-04	11:00:00					22	38	17	21	0.08
28-Mar-04	12:00:00					23	37	15	21	0.06
28-Mar-04	13:00:00					13	47	27	20	0.07
28-Mar-04	14:00:00		74	41	33	17	106	71	36	0.07
28-Mar-04	15:00:00		78	48	30	13	62	26	36	0.08
28-Mar-04	16:00:00		123	69	54	23	165	94	71	0.09
28-Mar-04	17:00:00		152	95	57	26	184	119	66	0.11
28-Mar-04	18:00:00		156	103	54	25	261	153	108	0.07
28-Mar-04	19:00:00		97	51	46	23	116	67	49	0.17
28-Mar-04	20:00:00		75	49	27	22	146	104	42	0.52
28-Mar-04	21:00:00		378	322	56	39	367	300	67	0.72
28-Mar-04	22:00:00		510	455	55	45	439	381	58	0.73
28-Mar-04	23:00:00		528	471	57	51	492	443	49	0.75
29-Mar-04	0:00:00		701	648	52	50	652	592	59	1.18
29-Mar-04	1:00:00		595	543	52	59	536	484	52	0.53
29-Mar-04	2:00:00		432	390	42	50	386	348	38	0.25
29-Mar-04	3:00:00		73	49	24	36	206	168	37	0.07
29-Mar-04	4:00:00		114	79	35	29	89	53	36	0.1
29-Mar-04	5:00:00		81	55	27	28	183	132	52	0.09
29-Mar-04	6:00:00		260	215	46	30	98	62	36	0.19
29-Mar-04	7:00:00		372	335	37	41	245	197	48	0.53
29-Mar-04	8:00:00		440	399	41	39	249	220	30	0.47
29-Mar-04	9:00:00		355	302	53	33	233	185	48	0.1
29-Mar-04	10:00:00		84	49	35		78	46	33	0.07
29-Mar-04	11:00:00		60	32	29	27	92	59	33	0.07
29-Mar-04	12:00:00		105	66	39	23	80	48	32	0.07
29-Mar-04	13:00:00		81	46	36	27	80	46	35	0.08
29-Mar-04	14:00:00		57	29	28	26	76	45	31	0.08
29-Mar-04	15:00:00		72	38	34	23	57	26	30	0.08
29-Mar-04	16:00:00		81	46	35	29	60	30	30	0.08

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Mar-04	17:00:00		145	94	51	20	84	47	37	0.12
29-Mar-04	18:00:00		188	122	66	23	159	100	59	0.13
29-Mar-04	19:00:00		229	150	79	31	263	185	78	0.16
29-Mar-04	20:00:00		208	141	68	33	258	175	84	0.11
29-Mar-04	21:00:00		204	139	65	38	238	157	81	0.11
29-Mar-04	22:00:00		299	157	142	35	181	114	67	0.12
29-Mar-04	23:00:00		118	69	49	41	194	117	77	0.12
30-Mar-04	0:00:00		153	87	67	38	177	125	52	0.13
30-Mar-04	1:00:00		126	78	48	59	193	137	56	0.13
30-Mar-04	2:00:00		259	162	97	55	228	169	60	0.1
30-Mar-04	3:00:00		223	155	68	24	233	164	68	0.09
30-Mar-04	4:00:00		168	118	50	22	327	223	103	0.1
30-Mar-04	5:00:00		174	123	51	21	372	253	119	0.11
30-Mar-04	6:00:00		206	145	61	30	313	218	95	0.11
30-Mar-04	7:00:00		156	103	52	13	186	135	51	0.08
30-Mar-04	8:00:00		97	64	34	11	142	104	38	0.08
30-Mar-04	9:00:00		125	85	40		137	95	42	0.06
30-Mar-04	10:00:00		84	57	27	1	106	75	31	0.06
30-Mar-04	11:00:00		105	70	36	2	86	58	29	0.07
30-Mar-04	12:00:00		109	70	39	7	113	69	44	0.05
30-Mar-04	13:00:00					12	85	53	32	0.05
30-Mar-04	14:00:00		100	63	37	16	96	58	38	0.03
30-Mar-04	15:00:00		110	75	35	6	87	53	34	0.03
30-Mar-04	16:00:00		101	65	37	6	111	67	44	0.06
30-Mar-04	17:00:00		99	60	39	9	74	43	31	0.04
30-Mar-04	18:00:00		100	56	43	18	87	52	35	0.05
30-Mar-04	19:00:00		141	88	53	7	110	64	46	0.03
30-Mar-04	20:00:00		61	32	29	17	64	33	31	0.08
30-Mar-04	21:00:00		146	101	45	16	261	179	82	0.04
30-Mar-04	22:00:00		123	79	44	24	157	106	51	0.05
30-Mar-04	23:00:00		160	100	60	6	229	156	73	0.25
31-Mar-04	0:00:00		210	150	61	25	348	248	99	0.41
31-Mar-04	1:00:00		268	206	62	23	389	291	98	0.17
31-Mar-04	2:00:00		243	172	71	29	479	329	150	0.13
31-Mar-04	3:00:00		150	98	52	13	472	298	174	0.1
31-Mar-04	4:00:00		165	110	55	13	397	305	92	0.13
31-Mar-04	5:00:00		201	142	59	18	439	334	105	0.13
31-Mar-04	6:00:00		206	155	51	19	425	330	96	0.1
31-Mar-04	7:00:00		225	158	67	18	406	302	104	0.08
31-Mar-04	8:00:00		594	469	126	16	170	128	42	0.04
31-Mar-04	9:00:00		979	755	224	26	62	34	29	0.03
31-Mar-04	10:00:00		1440	1114	325	6	77	46	31	0.04
31-Mar-04	11:00:00		463	287	175	10	82	53	29	0.03
31-Mar-04	12:00:00		732	530	202	21	75	48	27	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
31-Mar-04	13:00:00		429	229	200	10	92	62	30	0.03
31-Mar-04	14:00:00		1170	853	317	4	43	23	20	0.03
31-Mar-04	15:00:00		1103	795	308	16	59	25	34	0.03
31-Mar-04	16:00:00		619	484	134	15	51	30	21	0.04
31-Mar-04	17:00:00		120	78	42	15	55	26	30	0.04
31-Mar-04	18:00:00		134	86	49	15	41	15	26	0.04
31-Mar-04	19:00:00		124	81	43	9	124	73	51	0.07
31-Mar-04	20:00:00		170	111	59	22	197	126	71	0.04
31-Mar-04	21:00:00		372	250	122	12	193	132	61	0.03
31-Mar-04	22:00:00		194	136	58	17	281	181	100	0.04
31-Mar-04	23:00:00		250	192	58	17	393	254	140	0.04
1-Apr-04	0:00:00		306	228	78	44	261	178	83	0.09
1-Apr-04	1:00:00		446	342	104	33	180	106	73	0.09
1-Apr-04	2:00:00		346	237	108	25	148	107	40	0.17
1-Apr-04	3:00:00		500	354	146	39	235	159	75	0.19
1-Apr-04	4:00:00		420	306	114	40	142	99	43	0.15
1-Apr-04	5:00:00		458	352	106	29	211	139	72	0.05
1-Apr-04	6:00:00		425	307	118	34	133	71	62	0.04
1-Apr-04	7:00:00		447	341	106	13	39	16	23	0.04
1-Apr-04	8:00:00		435	324	111	9	37	13	23	0.11
1-Apr-04	9:00:00		151	101	50	18	49	22	27	0.02
1-Apr-04	10:00:00		58	35	23	6	23	11	12	0.02
1-Apr-04	11:00:00		61	32	30	4	32	22	10	0.02
1-Apr-04	12:00:00		98	61	36	19	15	7	8	0.04
1-Apr-04	13:00:00		70	36	34	19	23	15	8	0.02
1-Apr-04	14:00:00		76	42	34	14	11	2	9	0.04
1-Apr-04	15:00:00		54	28	25	19	22	8	14	0.1
1-Apr-04	16:00:00		54	30	24	26	23	9	14	0.04
1-Apr-04	17:00:00		74	41	33	25	22	8	14	0.03
1-Apr-04	18:00:00		218	140	78	16	52	25	27	0.04
1-Apr-04	19:00:00		178	129	50	18	40	21	19	0.02
1-Apr-04	20:00:00		269	196	73	8	62	32	30	0.03
1-Apr-04	21:00:00		250	170	80	11	142	90	53	0.08
1-Apr-04	22:00:00		213	153	60	31	414	320	94	0.09
1-Apr-04	23:00:00		241	177	65	23	382	282	100	0.09
2-Apr-04	0:00:00		280	216	65	31	386	300	86	0.09
2-Apr-04	1:00:00		315	232	84	36	447	338	108	0.11
2-Apr-04	2:00:00		278	201	77	32	529	418	112	0.08
2-Apr-04	3:00:00		359	230	129	40	557	434	123	0.09
2-Apr-04	4:00:00		362	254	108	39	500	391	109	0.14
2-Apr-04	5:00:00		288	225	63	42	555	447	108	0.08
2-Apr-04	6:00:00		279	218	62	36	472	373	99	0.14
2-Apr-04	7:00:00		200	149	51	36	351	257	94	0.05
2-Apr-04	8:00:00		93	63	30	26	332	243	89	0.07

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
2-Apr-04	9:00:00		87	60	27	21	308	220	87	0.03
2-Apr-04	10:00:00		78	49	29	26	276	186	90	0.03
2-Apr-04	11:00:00		70	40	30	15	250	169	81	0.02
2-Apr-04	12:00:00		82	50	32	15	78	48	30	0.01
2-Apr-04	13:00:00		60	33	27	17	39	20	19	0.02
2-Apr-04	14:00:00		45	22	23	6	31	17	14	0.02
2-Apr-04	15:00:00		40	20	19	12	20	8	12	0.02
2-Apr-04	16:00:00		49	26	23	12	15	3	12	0.02
2-Apr-04	17:00:00		53	28	25	6	25	9	16	0.03
2-Apr-04	18:00:00		44	20	24	8				0.05
2-Apr-04	19:00:00		47	23	24	14	18	3	15	0.02
2-Apr-04	20:00:00		35	15	20	10	27	8	19	0.03
2-Apr-04	21:00:00		56	33	22	15	83	55	28	0.05
2-Apr-04	22:00:00		74	46	28	16	128	78	51	0.11
2-Apr-04	23:00:00		94	55	39	27	304	227	77	0.1
3-Apr-04	0:00:00		107	73	34	20	218	159	59	0.1
3-Apr-04	1:00:00		151	112	39	36	293	203	91	0.17
3-Apr-04	2:00:00		172	135	37	45	473	356	117	0.17
3-Apr-04	3:00:00		215	166	49	48	483	375	108	0.16
3-Apr-04	4:00:00		249	200	49	51	452	374	78	0.11
3-Apr-04	5:00:00		151	111	41	44	390	305	86	0.15
3-Apr-04	6:00:00		89	60	29	50	340	253	87	0.06
3-Apr-04	7:00:00		127	95	32	28	132	99	32	0.18
3-Apr-04	8:00:00		215	174	40	47	398	331	67	0.08
3-Apr-04	9:00:00		127	90	37	18	210	155	54	0.04
3-Apr-04	10:00:00		116	79	37	10	112	82	31	0.04
3-Apr-04	11:00:00		116	75	41	18	116	82	34	0.03
3-Apr-04	12:00:00		279	169	110	4	110	61	49	0.03
3-Apr-04	13:00:00		87	57	30	7	101	59	42	0.03
3-Apr-04	14:00:00		68	37	31	11	127	67	60	0.04
3-Apr-04	15:00:00		71	43	28	12	133	81	52	0.04
3-Apr-04	16:00:00		59	32	26	11	102	61	41	0.04
3-Apr-04	17:00:00		49	27	22	2	23	10	12	0.04
3-Apr-04	18:00:00		83	46	37	10	36	18	19	0.03
3-Apr-04	19:00:00		274	177	97	12	56	28	28	0.05
3-Apr-04	20:00:00		231	138	93	16	196	120	77	0.12
3-Apr-04	21:00:00		215	138	77	39	299	209	90	0.11
3-Apr-04	22:00:00		240	168	72	56	299	213	86	0.12
3-Apr-04	23:00:00		291	219	71	45	347	256	91	0.16
4-Apr-04	0:00:00		368	293	76	40	348	277	71	0.19
4-Apr-04	1:00:00		573	482	91	42	479	397	83	0.39
4-Apr-04	2:00:00		397	315	82	60	488	383	106	0.05
4-Apr-04	3:00:00		258	156	101	54	226	135	91	0.03
4-Apr-04	4:00:00		460	307	154	27	96	60	36	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
4-Apr-04	5:00:00		418	294	124	15				0
4-Apr-04	6:00:00		384	248	136	1	9	2	7	0.02
4-Apr-04	7:00:00		514	354	160		76	36	40	0.01
4-Apr-04	8:00:00		770	531	240	6	38	19	19	0
4-Apr-04	9:00:00		653	492	161	3	29	17	13	0.01
4-Apr-04	10:00:00		525	356	170		36	17	19	0
4-Apr-04	11:00:00		392	268	124	3	32	22	10	0.02
4-Apr-04	12:00:00		384	250	134	2	13	6	7	0
4-Apr-04	13:00:00		352	219	133	6	31	16	15	0.01
4-Apr-04	14:00:00		285	193	93	4	48	31	18	0.01
4-Apr-04	15:00:00		382	258	124		8	2	5	0.01
4-Apr-04	16:00:00		365	204	161	8	20	10	10	0.01
4-Apr-04	17:00:00		71	33	38	26	39	11	28	0.02
4-Apr-04	18:00:00		134	84	51	14	15	5	10	0.01
4-Apr-04	19:00:00		101	55	46	7	32	11	21	0.02
4-Apr-04	20:00:00		158	99	59	12	64	30	35	0.02
4-Apr-04	21:00:00		118	68	49	10	90	50	40	0.02
4-Apr-04	22:00:00		263	198	65	13	120	57	63	0.07
4-Apr-04	23:00:00		346	293	53	21	177	137	40	0.07
5-Apr-04	0:00:00		586	493	93	30	314	254	60	0.06
5-Apr-04	1:00:00		443	385	57	18	226	182	44	0.09
5-Apr-04	2:00:00		405	357	48	16	259	207	52	0.03
5-Apr-04	3:00:00		434	356	78	17	237	199	38	0.04
5-Apr-04	4:00:00		523	450	73	29	315	280	35	0.02
5-Apr-04	5:00:00		525	398	127	11	86	62	24	0
5-Apr-04	6:00:00		331	240	91	8	29	7	22	0.02
5-Apr-04	7:00:00		416	314	102	5	53	20	33	0.01
5-Apr-04	8:00:00		236	159	77	5	20	4	16	0
5-Apr-04	9:00:00		64	34	30		41	15	27	0
5-Apr-04	10:00:00		48	26	22	7	29	11	18	0.01
5-Apr-04	11:00:00		35	19	17	7	131	74	56	0
5-Apr-04	12:00:00		431	318	113	8	14	7	7	0
5-Apr-04	13:00:00		459	337	123	2				0
5-Apr-04	14:00:00		145	85	60	9				0
5-Apr-04	15:00:00		132	71	61	3				0
5-Apr-04	16:00:00		102	62	39	3	14	5	9	0.01
5-Apr-04	17:00:00		70	37	33	7	42	25	16	0.01
5-Apr-04	18:00:00		79	41	38	5	19	4	15	0.02
5-Apr-04	19:00:00		136	87	49	21	92	52	41	0.02
5-Apr-04	20:00:00		201	136	65	17	147	89	59	0.02
5-Apr-04	21:00:00		319	257	62	11	106	56	49	0.03
5-Apr-04	22:00:00		371	315	56	15	154	92	62	0.05
5-Apr-04	23:00:00		313	254	59	27	198	139	58	0.04
6-Apr-04	0:00:00		294	199	96	18	151	84	67	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
6-Apr-04	1:00:00		369	296	73	12	200	151	49	0.04
6-Apr-04	2:00:00		393	338	55	29	318	262	56	0.01
6-Apr-04	3:00:00		438	373	65	14	233	182	51	0.01
6-Apr-04	4:00:00		704	569	136	14	132	102	29	0.18
6-Apr-04	5:00:00		446	364	82	22	407	341	66	0.11
6-Apr-04	6:00:00		397	352	46	24	235	202	32	0.2
6-Apr-04	7:00:00		498	442	56	21	306	256	50	0.17
6-Apr-04	8:00:00		771	604	167	15	188	145	43	0.47
6-Apr-04	9:00:00		373	261	112	8	75	48	26	0.01
6-Apr-04	10:00:00		209	159	50	2	39	18	21	0.01
6-Apr-04	11:00:00		43	22	20	4	41	18	23	0.02
6-Apr-04	12:00:00		41	20	21	8	32	14	18	0.02
6-Apr-04	13:00:00		90	55	35	7	30	14	15	0.01
6-Apr-04	14:00:00		83	49	34	9	38	20	18	0.02
6-Apr-04	15:00:00		91	54	37	2	37	17	21	0.02
6-Apr-04	16:00:00		104	60	44	10	71	39	33	0.02
6-Apr-04	17:00:00		89	54	35	16	95	52	43	0.03
6-Apr-04	18:00:00		86	48	38	19	123	68	55	0.05
6-Apr-04	19:00:00		169	110	59	26	212	140	72	0.08
6-Apr-04	20:00:00		321	221	100	33	367	263	104	0.13
6-Apr-04	21:00:00		508	409	100	29	313	255	57	0.44
6-Apr-04	22:00:00		730	639	92	48	763	687	76	0.41
6-Apr-04	23:00:00		880	801	79	53	695	631	64	0.35
7-Apr-04	0:00:00		764	690	75		748	650	98	0.31
7-Apr-04	1:00:00		947	842	105	45	657	598	59	0.33
7-Apr-04	2:00:00		749	665	84	49	702	640	62	0.21
7-Apr-04	3:00:00		728	659	69	83	568	514	54	0.27
7-Apr-04	4:00:00		807	717	90	101	708	647	60	0.28
7-Apr-04	5:00:00		936	834	102	133	738	670	68	0.54
7-Apr-04	6:00:00		915	852	63	163	819	756	64	1
7-Apr-04	7:00:00		1012	942	70	215	818	775	42	1.5
7-Apr-04	8:00:00		1055	985	70	258	963	900	63	0.91
7-Apr-04	9:00:00		686	616	71	260	659	596	63	0.07
7-Apr-04	10:00:00		196	123	73	223	110	61	50	0.07
7-Apr-04	11:00:00		198	133	65	157	89	53	35	0.01
7-Apr-04	12:00:00		243	151	92	76	38	17	21	0.01
7-Apr-04	13:00:00		323	212	111		32	13	19	0.02
7-Apr-04	14:00:00		78	42	36	11	49	28	21	0.01
7-Apr-04	15:00:00		69	38	30	11	58	32	26	0.01
7-Apr-04	16:00:00		67	34	34	8	72	39	33	0.02
7-Apr-04	17:00:00		92	50	42	15	103	67	36	0.02
7-Apr-04	18:00:00		92	46	46	27	104	58	46	0.03
7-Apr-04	19:00:00		166	97	68	22	181	101	80	0.07
7-Apr-04	20:00:00		214	145	68	23	236	165	71	0.18



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-Apr-04	21:00:00		292	211	81	38	433	341	92	0.09
7-Apr-04	22:00:00		204	142	62	31	306	193	114	0.04
7-Apr-04	23:00:00		191	128	63	25	246	169	76	0.07
8-Apr-04	0:00:00		195	133	62	26	280	205	75	0.09
8-Apr-04	1:00:00		270	202	68	26	284	206	78	0.17
8-Apr-04	2:00:00		357	286	72	32	471	337	134	0.15
8-Apr-04	3:00:00		305	237	68	43	340	251	89	0.09
8-Apr-04	4:00:00		346	291	55	25	337	278	60	0.15
8-Apr-04	5:00:00		369	308	61	23	685	516	168	0.2
8-Apr-04	6:00:00		376	327	49	30	535	438	97	0.71
8-Apr-04	7:00:00		385	320	65	60	653	555	98	0.34
8-Apr-04	8:00:00		280	234	46	37	450	354	95	0.27
8-Apr-04	9:00:00		137	92	45	53	401	314	88	0.11
8-Apr-04	10:00:00		161	105	55	35	268	176	92	0.04
8-Apr-04	11:00:00		294	187	107	19	110	61	50	0.01
8-Apr-04	12:00:00		179	106	73	12	67	35	31	0.01
8-Apr-04	13:00:00		124	75	49	15	99	51	47	0.02
8-Apr-04	14:00:00		77	42	36	15	57	29	29	0.01
8-Apr-04	15:00:00		73	37	37	11	56	24	31	0.02
8-Apr-04	16:00:00		85	38	47	15	53	23	30	0.03
8-Apr-04	17:00:00					25	94	45	50	0.03
8-Apr-04	18:00:00		76	35	40	23	70	32	38	0.02
8-Apr-04	19:00:00		83	39	44	29	60	23	37	0.05
8-Apr-04	20:00:00		151	85	67	24	105	51	54	0.03
8-Apr-04	21:00:00		146	79	67	30	84	37	47	0.01
8-Apr-04	22:00:00		145	87	58	25	58	18	39	0.01
8-Apr-04	23:00:00		211	136	75	20	52	15	37	0.01
9-Apr-04	0:00:00		314	215	100	8	44	9	35	0
9-Apr-04	1:00:00		165	97	68	4				0.01
9-Apr-04	2:00:00		223	151	72	13	115	71	44	0.02
9-Apr-04	3:00:00		245	190	56	14	189	143	46	0.02
9-Apr-04	4:00:00		400	338	62	26	272	230	42	0.03
9-Apr-04	5:00:00		377	321	56	22	256	214	42	0.06
9-Apr-04	6:00:00		406	355	51	21	280	243	38	0.15
9-Apr-04	7:00:00		399	323	76	26	182	151	30	0.01
9-Apr-04	8:00:00		252	166	86	17	74	46	29	0
9-Apr-04	9:00:00		252	164	89	18	33	16	17	0
9-Apr-04	10:00:00		199	120	79	14	23	10	13	0
9-Apr-04	11:00:00		31	9	22	17	11	3	8	0
9-Apr-04	12:00:00		13	3	10	8				0.01
9-Apr-04	13:00:00		21	7	14	17				0
9-Apr-04	14:00:00		74	44	30	14				0
9-Apr-04	15:00:00		62	30	32	7	13	1	13	0.01
9-Apr-04	16:00:00		49	25	25	15				0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-Apr-04	17:00:00		91	45	46	17				0.01
9-Apr-04	18:00:00		174	102	72	22				0.02
9-Apr-04	19:00:00		170	113	57	22	50	16	33	0.06
9-Apr-04	20:00:00		157	97	59	22	110	61	49	0.11
9-Apr-04	21:00:00		258	198	60	20	154	106	49	0.05
9-Apr-04	22:00:00		196	145	51	30	110	69	40	0.1
9-Apr-04	23:00:00		267	210	57	32	109	75	34	0.05
10-Apr-04	0:00:00		206	129	77	19	36	12	25	0.05
10-Apr-04	1:00:00		167	110	57	26	40	14	26	0.08
10-Apr-04	2:00:00		201	131	70	30	61	27	33	0.03
10-Apr-04	3:00:00		169	113	56	33	59	19	40	0.02
10-Apr-04	4:00:00		226	171	55	27	59	25	34	0.02
10-Apr-04	5:00:00		340	273	67	22	80	42	38	0.09
10-Apr-04	6:00:00		261	199	62	31	107	63	44	0.05
10-Apr-04	7:00:00		320	247	73	23	71	33	39	0.08
10-Apr-04	8:00:00		331	251	80	25	57	20	37	0.01
10-Apr-04	9:00:00		188	108	80	26				0.01
10-Apr-04	10:00:00		136	83	54	25				0.01
10-Apr-04	11:00:00		119	60	59	23				0.01
10-Apr-04	12:00:00		163	99	64	24	24	3	21	0.02
10-Apr-04	13:00:00		224	149	75	29				0.02
10-Apr-04	14:00:00		144	85	60	29	54	14	40	0.02
10-Apr-04	15:00:00		83	42	40	22	26	6	19	0.03
10-Apr-04	16:00:00		86	44	41	27	15	2	13	0.04
10-Apr-04	17:00:00		120	73	47	19	51	16	35	0.03
10-Apr-04	18:00:00		204	140	64	27				0.04
10-Apr-04	19:00:00		77	38	39	32	31	7	24	0.03
10-Apr-04	20:00:00		98	59	39	31	32	6	26	0.2
10-Apr-04	21:00:00		347	270	77	33	144	96	47	0.2
10-Apr-04	22:00:00		422	346	77	41	220	170	50	0.26
10-Apr-04	23:00:00		382	320	62	43	240	191	49	0.3
11-Apr-04	0:00:00		434	360	74	44	401	318	83	0.33
11-Apr-04	1:00:00		706	568	138	51	336	259	76	0.34
11-Apr-04	2:00:00		969	736	233	47	287	232	55	0.34
11-Apr-04	3:00:00		495	429	66	49	227	190	37	0.25
11-Apr-04	4:00:00		409	355	54	51	197	167	30	0.24
11-Apr-04	5:00:00		453	400	53	42	274	244	30	0.26
11-Apr-04	6:00:00		450	380	70	67	476	382	93	0.23
11-Apr-04	7:00:00		502	405	97	46	236	194	41	0.12
11-Apr-04	8:00:00		405	320	85	37	92	70	23	0.11
11-Apr-04	9:00:00		453	354	99	46	55	33	21	0.06
11-Apr-04	10:00:00		234	152	82	28	40	16	24	0.06
11-Apr-04	11:00:00		159	107	53	34	73	39	34	0.04
11-Apr-04	12:00:00		185	129	56	29	22	5	17	0.03

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
11-Apr-04	13:00:00		155	102	53	24	16	1	15	0.03
11-Apr-04	14:00:00		264	172	92	22	32	5	28	0.02
11-Apr-04	15:00:00		191	124	67	25	15	1	14	0.03
11-Apr-04	16:00:00		298	208	90	16	30	9	20	0.03
11-Apr-04	17:00:00		104	66	37	21	24	5	19	0.03
11-Apr-04	18:00:00		141	95	46	18	45	14	31	0.05
11-Apr-04	19:00:00		194	142	52	26	86	31	56	0.05
11-Apr-04	20:00:00		221	159	61	23	132	61	71	0.05
11-Apr-04	21:00:00		192	143	49	23	127	71	56	0.07
11-Apr-04	22:00:00		78	44	34	28	261	144	117	0.05
11-Apr-04	23:00:00		189	135	54	26	163	76	87	0.05
12-Apr-04	0:00:00		193	143	50	21	99	55	44	0.03
12-Apr-04	1:00:00		139	99	40	28	149	75	74	0.02
12-Apr-04	2:00:00		130	89	41	23	39	8	31	0.01
12-Apr-04	3:00:00		153	109	44	20				0.01
12-Apr-04	4:00:00		151	101	49	23				0.01
12-Apr-04	5:00:00		92	60	32	16				0.02
12-Apr-04	6:00:00		82	48	34	17				0.03
12-Apr-04	7:00:00		65	38	27	18				0.03
12-Apr-04	8:00:00		72	45	27	25				0.03
12-Apr-04	9:00:00		86	56	30	16	21	8	13	0.03
12-Apr-04	10:00:00		93	61	33	23	19	5	14	0.05
12-Apr-04	11:00:00		120	80	40	14	27	10	17	0.05
12-Apr-04	12:00:00		140	93	47	13	21	7	14	0.04
12-Apr-04	13:00:00		84	57	27	14	23	7	16	0.04
12-Apr-04	14:00:00		55	29	26	15	28	10	18	0.05
12-Apr-04	15:00:00		406	274	132	12	30	11	18	0.06
12-Apr-04	16:00:00		131	91	41	1	20	5	15	0.06
12-Apr-04	17:00:00		49	23	25	14	21	6	15	0.05
12-Apr-04	18:00:00		57	35	22	8	20	6	14	0.07
12-Apr-04	19:00:00		233	177	55	10	38	19	19	0.07
12-Apr-04	20:00:00		357	309	47	8	54	32	22	0.06
12-Apr-04	21:00:00		250	192	57	15	44	21	24	0.06
12-Apr-04	22:00:00		608	372	235	16	80	41	39	0.03
12-Apr-04	23:00:00		1082	770	312		53	25	28	0.03
13-Apr-04	0:00:00		961	601	360	7	64	31	33	0.03
13-Apr-04	1:00:00		961	631	329	10	40	21	20	0.02
13-Apr-04	2:00:00		826	496	329	9	29	11	17	0.04
13-Apr-04	3:00:00		1267	863	404	20	127	65	63	0.05
13-Apr-04	4:00:00		1132	764	368	18	177	86	91	0.04
13-Apr-04	5:00:00		1121	819	302		89	59	29	0.04
13-Apr-04	6:00:00		1316	1033	283	13	103	77	26	0.09
13-Apr-04	7:00:00		1088	818	270	11	138	102	36	0.09
13-Apr-04	8:00:00		257	208	49	16	219	172	47	0.07

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
13-Apr-04	9:00:00		137	107	30	8	181	143	38	0.06
13-Apr-04	10:00:00		138	112	26	5	149	117	32	0.04
13-Apr-04	11:00:00		114	86	28	15	111	85	26	0.05
13-Apr-04	12:00:00		104	74	31	3	85	65	20	0.04
13-Apr-04	13:00:00		89	65	24	11	103	81	22	0.04
13-Apr-04	14:00:00		83	60	23	2	81	62	19	0.04
13-Apr-04	15:00:00		128	98	30	9	98	77	22	0.03
13-Apr-04	16:00:00		164	122	41	4	93	73	21	0.02
13-Apr-04	17:00:00		161	127	33	6	140	111	29	0.01
13-Apr-04	18:00:00		187	129	59	1	70	48	22	0.01
13-Apr-04	19:00:00		147	111	36	1	88	58	29	0.02
13-Apr-04	20:00:00		207	142	64	1	159	122	37	0.02
13-Apr-04	21:00:00		239	173	66	6	204	155	48	0
13-Apr-04	22:00:00		179	114	65	12	116	77	40	0.01
13-Apr-04	23:00:00		267	198	69	20	143	96	47	0.02
14-Apr-04	0:00:00		175	130	45	11	230	176	54	0.02
14-Apr-04	1:00:00		128	94	34	41	372	280	93	0.03
14-Apr-04	2:00:00		176	126	50	35	336	258	78	0
14-Apr-04	3:00:00		385	287	98	28	183	129	54	0.02
14-Apr-04	4:00:00		282	218	63	21	347	268	79	0.02
14-Apr-04	5:00:00		572	447	125	15	314	196	118	0.01
14-Apr-04	6:00:00		528	403	125	17	150	99	51	0.01
14-Apr-04	7:00:00		644	477	167	23	229	165	64	0.01
14-Apr-04	8:00:00		323	242	81	16	232	169	63	0.01
14-Apr-04	9:00:00		193	144	49	16	113	73	40	0
14-Apr-04	10:00:00		150	108	42	10	33	16	16	0
14-Apr-04	11:00:00		95	60	35	10	27	15	12	0
14-Apr-04	12:00:00		69	43	26		59	31	28	0
14-Apr-04	13:00:00		71	45	26	10	13	6	7	0
14-Apr-04	14:00:00		71	42	30	4	16	8	8	0
14-Apr-04	15:00:00		99	57	42	7	18	7	11	0.04
14-Apr-04	16:00:00		79	45	34	16				0.04
14-Apr-04	17:00:00		77	42	35	7	11	3	9	0.05
14-Apr-04	18:00:00		123	81	42	3	66	34	32	0.04
14-Apr-04	19:00:00		133	73	60	14	168	81	88	0.16
14-Apr-04	20:00:00		278	200	79	7	277	164	113	0.29
14-Apr-04	21:00:00		319	250	69	39	535	445	90	0.26
14-Apr-04	22:00:00		616	543	74	43	476	405	71	0.28
14-Apr-04	23:00:00		643	571	71	36	502	452	50	0.35
15-Apr-04	0:00:00		773	706	68	29	636	567	69	0.39
15-Apr-04	1:00:00		816	721	95	51	619	549	70	0.27
15-Apr-04	2:00:00		770	660	110	32	502	451	51	0.3
15-Apr-04	3:00:00		1016	883	133	46	603	547	56	0.13
15-Apr-04	4:00:00		918	769	148	30	350	324	26	0.11

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
15-Apr-04	5:00:00		635	559	76	23	385	345	40	0.23
15-Apr-04	6:00:00		977	834	144	25	343	320	24	0.72
15-Apr-04	7:00:00		1059	880	178	40	506	455	52	0.68
15-Apr-04	8:00:00		997	832	165	25	259	238	22	0.5
15-Apr-04	9:00:00		334	290	44	19	292	266	26	0.21
15-Apr-04	10:00:00		196	151	45	22	140	109	31	0.08
15-Apr-04	11:00:00		88	44	45	17	179	99	80	0.14
15-Apr-04	12:00:00		125	73	52	14	18	8	11	0.05
15-Apr-04	13:00:00		78	35	44	18	25	12	13	0.06
15-Apr-04	14:00:00		46	21	24	11	20	7	13	0.14
15-Apr-04	15:00:00		40	17	22	11	31	13	18	0.08
15-Apr-04	16:00:00		66	27	39	14	24	8	16	0.1
15-Apr-04	17:00:00		100	47	53	12	33	10	23	0.09
15-Apr-04	18:00:00		48	22	26	18	76	42	34	0.19
15-Apr-04	19:00:00		67	32	35	21	435	304	131	0.24
15-Apr-04	20:00:00		206	154	52	20	314	218	96	0.49
15-Apr-04	21:00:00		572	477	95	39	462	391	71	0.44
15-Apr-04	22:00:00		547	488	59	34	478	374	104	0.38
15-Apr-04	23:00:00		504	449	55	28	327	287	40	0.38
16-Apr-04	0:00:00		727	651	76	51	525	453	71	0.39
16-Apr-04	1:00:00		716	652	65	38	456	409	47	0.5
16-Apr-04	2:00:00		727	675	53	45	595	555	40	0.3
16-Apr-04	3:00:00		608	547	60		413	381	32	0.26
16-Apr-04	4:00:00		518	465	52	38	414	377	37	0.28
16-Apr-04	5:00:00		629	570	59	44	486	436	51	0.38
16-Apr-04	6:00:00		482	436	46	47	340	312	28	0.75
16-Apr-04	7:00:00		440	403	37	42	403	373	30	1.1
16-Apr-04	8:00:00		625	566	59	54	535	495	40	0.6
16-Apr-04	9:00:00		295	251	44	38	265	227	37	0.32
16-Apr-04	10:00:00		190	150	41	41	170	135	35	0.18
16-Apr-04	11:00:00		97	58	39	29	85	57	28	0.06
16-Apr-04	12:00:00		52	28	24	19	39	20	19	0.1
16-Apr-04	13:00:00		99	57	43	22	66	33	32	0.09
16-Apr-04	14:00:00		110	64	45	29	77	41	36	0.06
16-Apr-04	15:00:00		94	52	43	14	64	29	35	0.07
16-Apr-04	16:00:00		140	84	56	20	91	52	39	0.06
16-Apr-04	17:00:00		138	86	52	23	83	44	39	0.08
16-Apr-04	18:00:00		156	95	62	24	191	116	76	0.09
16-Apr-04	19:00:00		113	61	52	27	174	104	71	0.07
16-Apr-04	20:00:00		111	57	54	21	138	64	74	0.06
16-Apr-04	21:00:00		63	29	34	26	155	87	68	0.08
16-Apr-04	22:00:00		148	89	59	29	306	227	79	0.19
16-Apr-04	23:00:00		343	211	132	39	241	174	67	0.17
17-Apr-04	0:00:00		170	114	57	27	287	212	75	0.15

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
17-Apr-04	1:00:00		383	316	68	35	295	220	75	0.29
17-Apr-04	2:00:00		392	334	58	28	312	270	42	0.3
17-Apr-04	3:00:00		466	408	58	40	372	328	44	0.38
17-Apr-04	4:00:00		539	493	45	44	454	416	38	0.41
17-Apr-04	5:00:00		522	479	43	41	488	449	38	0.58
17-Apr-04	6:00:00		535	489	46	43	427	395	33	0.82
17-Apr-04	7:00:00		607	545	62	50	525	487	39	1.2
17-Apr-04	8:00:00		728	666	62	71	740	659	81	0.33
17-Apr-04	9:00:00		196	148	48	50	518	377	141	0.12
17-Apr-04	10:00:00		111	67	44	36	283	191	92	0.07
17-Apr-04	11:00:00		89	48	42	26	86	47	39	0.07
17-Apr-04	12:00:00		86	46	39	30	100	56	44	0.06
17-Apr-04	13:00:00		93	49	44	30	91	51	40	0.07
17-Apr-04	14:00:00		97	49	48	20	113	63	50	0.09
17-Apr-04	15:00:00		92	43	49	29	138	77	61	0.11
17-Apr-04	16:00:00		93	51	42	26	152	80	71	0.14
17-Apr-04	17:00:00		108	50	57	43	360	243	117	0.17
17-Apr-04	18:00:00		95	46	49	63	595	396	199	0.2
17-Apr-04	19:00:00		71	33	39	85	656	448	208	0.15
17-Apr-04	20:00:00		70	31	39	33	330	221	109	0.21
17-Apr-04	21:00:00		70	31	39	36	438	309	129	0.22
17-Apr-04	22:00:00		104	55	49	48	457	327	129	0.18
17-Apr-04	23:00:00		161	102	59	51	315	234	81	0.28
18-Apr-04	0:00:00		452	346	105	36	555	446	109	0.32
18-Apr-04	1:00:00		566	495	72	37	302	225	77	0.36
18-Apr-04	2:00:00		568	508	60	36	341	274	68	0.36
18-Apr-04	3:00:00		511	447	65	43	318	261	57	0.81
18-Apr-04	4:00:00		498	438	60		389	352	37	0.73
18-Apr-04	5:00:00		476	425	51		416	379	37	0.67
18-Apr-04	6:00:00		599	546	53	58	542	503	39	0.75
18-Apr-04	7:00:00		662	601	61	58	603	557	46	0.68
18-Apr-04	8:00:00		343	282	61	53	619	515	104	0.14
18-Apr-04	9:00:00		216	155	60	20	194	139	55	0.09
18-Apr-04	10:00:00		227	160	67	20	221	134	87	0.07
18-Apr-04	11:00:00		208	123	85	24	121	73	48	0.05
18-Apr-04	12:00:00		99	56	43	20	97	55	42	0.05
18-Apr-04	13:00:00		130	75	55	32	123	71	52	0.07
18-Apr-04	14:00:00		169	107	62	11	126	74	52	0.08
18-Apr-04	15:00:00		169	114	55	17	125	74	51	0.08
18-Apr-04	16:00:00		131	76	55	16	176	105	71	0.07
18-Apr-04	17:00:00		191	110	81	23	135	78	56	0.08
18-Apr-04	18:00:00		190	125	65	23	159	96	63	0.08
18-Apr-04	19:00:00		123	72	50	23	110	58	51	0.08
18-Apr-04	20:00:00		30	11	19	22	133	77	56	0.32

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Apr-04	21:00:00		134	85	49	34	327	261	66	0.16
18-Apr-04	22:00:00		88	42	46	36	273	207	66	0.13
18-Apr-04	23:00:00		89	43	46	23	129	85	44	0.2
19-Apr-04	0:00:00		81	40	41	32	386	296	90	0.23
19-Apr-04	1:00:00		100	55	45	43	663	532	131	0.27
19-Apr-04	2:00:00		470	397	73	54	807	602	205	0.17
19-Apr-04	3:00:00		468	397	71	46	512	387	125	0.09
19-Apr-04	4:00:00		247	188	60	36	249	183	67	0.22
19-Apr-04	5:00:00		187	145	42	41	372	328	44	0.43
19-Apr-04	6:00:00		361	302	59	43	365	320	45	0.4
19-Apr-04	7:00:00		251	200	51	45	401	328	72	0.2
19-Apr-04	8:00:00		164	120	44	22	185	142	43	0.05
19-Apr-04	9:00:00		75	41	34	21	50	25	26	0.04
19-Apr-04	10:00:00		86	52	33	23	45	20	24	0.03
19-Apr-04	11:00:00		101	60	41	23	35	13	22	0.03
19-Apr-04	12:00:00		82	49	33	14	41	18	23	0.03
19-Apr-04	13:00:00		100	53	47	17	91	52	39	0.04
19-Apr-04	14:00:00		108	61	47	16	79	44	36	0.04
19-Apr-04	15:00:00		79	44	35	19	62	33	29	0.06
19-Apr-04	16:00:00		69	39	30	14	39	16	23	0.04
19-Apr-04	17:00:00		106	63	42	13	71	37	34	0.04
19-Apr-04	18:00:00		114	67	47	13	84	40	44	0.04
19-Apr-04	19:00:00		89	44	45	12	108	57	51	0.05
19-Apr-04	20:00:00		296	219	78	25	266	181	85	0.11
19-Apr-04	21:00:00		267	198	68	32	503	409	94	0.22
19-Apr-04	22:00:00		399	325	74	45	514	441	73	0.24
19-Apr-04	23:00:00		650	543	107	29	400	355	46	0.2
20-Apr-04	0:00:00		579	468	111	34	334	294	41	0.11
20-Apr-04	1:00:00		597	513	83	29	325	283	43	0.09
20-Apr-04	2:00:00		565	505	61	31	369	322	46	0.07
20-Apr-04	3:00:00		641	563	78	24	257	210	47	0.12
20-Apr-04	4:00:00		578	521	58	34	463	418	44	0.08
20-Apr-04	5:00:00		603	536	66	29	410	364	46	0.11
20-Apr-04	6:00:00		557	487	70	34	368	316	52	0.35
20-Apr-04	7:00:00		394	348	46	36	466	405	60	0.27
20-Apr-04	8:00:00		366	316	49	30	300	256	44	0.07
20-Apr-04	9:00:00		96	58	38	29	133	88	45	0.06
20-Apr-04	10:00:00		136	98	37	34	126	83	43	0.04
20-Apr-04	11:00:00		66	35	32	19	45	22	22	0.04
20-Apr-04	12:00:00		78	47	30	19	81	49	32	0.03
20-Apr-04	13:00:00		91	57	34	13	65	37	28	0.02
20-Apr-04	14:00:00		64	36	28	8	17	6	11	0.02
20-Apr-04	15:00:00		228	158	71	10	16	6	10	0.03
20-Apr-04	16:00:00		525	396	129	19	48	25	24	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-Apr-04	17:00:00		176	103	73	21	167	103	64	0.05
20-Apr-04	18:00:00		106	59	47	17	164	98	66	0.05
20-Apr-04	19:00:00		184	119	65	21	352	231	121	0.09
20-Apr-04	20:00:00		221	152	69	30	208	153	55	0.09
20-Apr-04	21:00:00		140	89	51	26	248	167	81	0.08
20-Apr-04	22:00:00		135	84	51	24	395	305	90	0.16
20-Apr-04	23:00:00		235	150	85	39	359	298	61	0.14
21-Apr-04	0:00:00		213	135	78	39	489	413	76	0.1
21-Apr-04	1:00:00		211	139	72	31	447	370	77	0.06
21-Apr-04	2:00:00		505	409	96	37	337	293	44	0.08
21-Apr-04	3:00:00		905	783	121	25	329	279	50	0.08
21-Apr-04	4:00:00		1047	911	136		408	370	38	0.13
21-Apr-04	5:00:00		1280	1145	135	38	476	435	41	0.34
21-Apr-04	6:00:00		904	781	123	53	584	543	40	0.29
21-Apr-04	7:00:00		121	77	44	32	329	280	49	0.03
21-Apr-04	8:00:00		25	11	14	22	261	149	113	0.02
21-Apr-04	9:00:00		41	21	21	19	198	131	67	0.02
21-Apr-04	10:00:00		97	57	40	14	104	67	37	0.01
21-Apr-04	11:00:00		94	55	39	18	55	29	26	0.01
21-Apr-04	12:00:00		88	53	35	15	39	19	20	0.02
21-Apr-04	13:00:00		100	57	42	17	64	34	30	0.01
21-Apr-04	14:00:00		92	54	38	15	42	22	20	0.02
21-Apr-04	15:00:00		95	55	40	11	70	40	30	0.02
21-Apr-04	16:00:00		126	76	51	22	84	52	33	0.02
21-Apr-04	17:00:00		134	85	49	22	106	60	46	0.02
21-Apr-04	18:00:00		146	90	56	22	105	60	46	0.02
21-Apr-04	19:00:00		138	87	51	28	119	73	46	0.02
21-Apr-04	20:00:00		119	68	51	19	114	72	43	0.02
21-Apr-04	21:00:00		125	75	50	14	103	59	43	0.13
21-Apr-04	22:00:00		144	93	51	32	939	622	317	0.5
21-Apr-04	23:00:00		153	101	52	37	362	240	121	0.5
22-Apr-04	0:00:00		206	158	48	31	103	61	42	0.03
22-Apr-04	1:00:00		194	149	45	29	126	91	35	0.04
22-Apr-04	2:00:00		177	140	37	29	218	183	35	0.03
22-Apr-04	3:00:00		193	146	47	27	126	88	38	0.02
22-Apr-04	4:00:00		191	158	33	20	160	130	29	0.05
22-Apr-04	5:00:00		98	72	26	25	335	252	83	0.08
22-Apr-04	6:00:00		51	27	24	38	688	523	164	0.06
22-Apr-04	7:00:00		59	33	26	35	418	294	124	0.03
22-Apr-04	8:00:00		44	23	21	14	190	136	54	0.02
22-Apr-04	9:00:00		61	36	26	19	206	139	67	0.01
22-Apr-04	10:00:00		85	56	30	14	62	35	27	0.01
22-Apr-04	11:00:00		86	53	32	13	75	44	30	0.01
22-Apr-04	12:00:00		104	70	34	6	56	34	22	0.01



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
22-Apr-04	13:00:00		135	88	47	14	73	41	33	0.01
22-Apr-04	14:00:00		128	83	44	12	64	37	27	0.01
22-Apr-04	15:00:00		132	85	47	20	74	43	31	0.01
22-Apr-04	16:00:00		136	90	46	19	79	46	33	0.01
22-Apr-04	17:00:00		126	80	45	15	128	78	50	0.02
22-Apr-04	18:00:00		152	99	53	10	129	76	54	0.02
22-Apr-04	19:00:00		57	25	31	21	87	47	40	0.02
22-Apr-04	20:00:00		76	39	36	22	88	50	38	0.07
22-Apr-04	21:00:00		225	168	57	24	264	202	63	0.02
22-Apr-04	22:00:00		134	86	48	28	174	108	66	0.09
22-Apr-04	23:00:00		231	183	48	20	69	39	30	0.09
23-Apr-04	0:00:00		318	265	53	33	244	196	48	0.08
23-Apr-04	1:00:00		296	248	49	36	380	309	71	0.09
23-Apr-04	2:00:00		316	272	44	30	339	285	54	0.15
23-Apr-04	3:00:00		331	287	44	30	277	209	67	0.05
23-Apr-04	4:00:00		385	339	46	28	242	219	23	0.06
23-Apr-04	5:00:00		338	289	49	26	312	292	21	0.06
23-Apr-04	6:00:00		109	82	27	26	186	160	26	0.04
23-Apr-04	7:00:00		74	48	25	24	111	83	28	0.09
23-Apr-04	8:00:00		142	111	31	27	135	109	26	0.03
23-Apr-04	9:00:00		99	70	29	20	71	50	21	0.01
23-Apr-04	10:00:00		50	30	20	17	46	27	19	0.02
23-Apr-04	11:00:00		82	53	29	19	50	30	20	0.02
23-Apr-04	12:00:00		85	52	33	16	60	38	22	0.02
23-Apr-04	13:00:00		73	43	30	22	85	56	29	0.02
23-Apr-04	14:00:00		92	57	34	14	31	16	15	0.02
23-Apr-04	15:00:00		115	69	46	27	55	31	24	0.03
23-Apr-04	16:00:00		92	58	34	16	18	6	13	0.04
23-Apr-04	17:00:00		57	30	27	22	24	10	14	0.02
23-Apr-04	18:00:00		50	26	25	14				0.02
23-Apr-04	19:00:00		84	47	37	13	23	5	18	0.02
23-Apr-04	20:00:00		107	68	39	20	59	28	31	0.05
23-Apr-04	21:00:00		120	76	43	19	45	14	31	0.03
23-Apr-04	22:00:00		133	92	41	15	47	26	21	0.06
23-Apr-04	23:00:00		129	92	37	16	99	62	37	0.2
24-Apr-04	0:00:00		52	28	24	13	43	20	23	0.28
24-Apr-04	1:00:00		148	112	36	25	131	99	32	0.09
24-Apr-04	2:00:00		209	175	34	24	117	82	35	0.08
24-Apr-04	3:00:00		196	154	42	11	167	122	45	0.06
24-Apr-04	4:00:00		226	165	61	22	158	88	70	0.08
24-Apr-04	5:00:00		236	180	55	19	123	77	46	0.02
24-Apr-04	6:00:00		217	167	49	12	22	6	16	0.02
24-Apr-04	7:00:00		174	132	42	16	35	17	19	0.16
24-Apr-04	8:00:00		135	99	36	24	108	56	52	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
24-Apr-04	9:00:00		79	49	30	8	62	36	26	0.01
24-Apr-04	10:00:00		87	56	31	7	31	16	15	0.01
24-Apr-04	11:00:00		55	24	31	12	28	13	15	
24-Apr-04	12:00:00		54	24	29	11	39	17	21	
24-Apr-04	13:00:00		88	44	44	16	31	12	19	
24-Apr-04	14:00:00		67	29	38	19	20	8	12	
24-Apr-04	15:00:00		74	35	39	20				
24-Apr-04	16:00:00		60	24	36	24	56	24	33	
24-Apr-04	17:00:00		100	58	43	34	172	101	71	
24-Apr-04	18:00:00		31	9	22	44	255	158	97	
24-Apr-04	19:00:00		45	16	29	38	212	154	57	
24-Apr-04	20:00:00		54	22	31	35	1229	991	238	
24-Apr-04	21:00:00		137	89	49	40	364	268	95	
24-Apr-04	22:00:00		84	46	38	47	241	159	82	
24-Apr-04	23:00:00		177	116	61	41	386	289	97	
25-Apr-04	0:00:00		207	140	66	54	183	123	60	
25-Apr-04	1:00:00		328	235	93	59	321	245	76	
25-Apr-04	2:00:00		366	273	93	51	254	195	59	
25-Apr-04	3:00:00		190	118	71	44	230	158	71	
25-Apr-04	4:00:00		162	112	50	41	126	81	45	
25-Apr-04	5:00:00		346	261	84	45	223	171	52	
25-Apr-04	6:00:00		786	692	93	52	183	149	34	0.05
25-Apr-04	7:00:00		413	317	96	49	334	281	53	0.25
25-Apr-04	8:00:00		107	62	45	29	211	141	70	0.02
25-Apr-04	9:00:00		219	139	80	33	170	116	53	0.01
25-Apr-04	10:00:00		116	72	44	33	313	230	83	0.04
25-Apr-04	11:00:00		128	85	43	29	183	121	61	0.03
25-Apr-04	12:00:00		125	80	45	16	85	53	32	0.01
25-Apr-04	13:00:00		118	73	46	15	82	47	35	0.01
25-Apr-04	14:00:00		77	45	32	20	72	38	35	0.01
25-Apr-04	15:00:00		100	61	39	23	133	88	45	0.01
25-Apr-04	16:00:00		124	74	50	23	142	84	58	0.02
25-Apr-04	17:00:00		113	69	43	34	103	59	44	0.02
25-Apr-04	18:00:00		73	36	38	23	40	17	23	0.01
25-Apr-04	19:00:00		100	58	41	27	81	44	37	0.02
25-Apr-04	20:00:00		68	37	31	20	32	12	20	0.01
25-Apr-04	21:00:00		40	21	20	18	9	0	8	0.01
25-Apr-04	22:00:00		36	20	16	13	41	19	22	0.01
25-Apr-04	23:00:00		23	9	13	14	51	23	27	0.01
26-Apr-04	0:00:00		60	29	31	24	38	21	17	0.01
26-Apr-04	1:00:00		80	42	37	20	72	47	25	0.01
26-Apr-04	2:00:00		126	65	60	18	79	53	26	0.01
26-Apr-04	3:00:00		55	23	32	20	55	30	25	0.01
26-Apr-04	4:00:00		63	23	40	19	54	34	20	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
26-Apr-04	5:00:00		165	110	55	16	54	35	19	0.01
26-Apr-04	6:00:00		139	80	59	12	31	14	17	0.01
26-Apr-04	7:00:00		119	75	44	16	46	19	27	0.05
26-Apr-04	8:00:00		139	91	48	19	47	13	34	0.03
26-Apr-04	9:00:00		199	136	62	3				0.01
26-Apr-04	10:00:00		90	53	37	7	30	14	17	0.01
26-Apr-04	11:00:00		83	47	36	6	27	11	16	0.01
26-Apr-04	12:00:00		47	26	21	4				0.02
26-Apr-04	13:00:00		74	50	25	9	12	3	9	0.01
26-Apr-04	14:00:00		57	39	18	2	36	18	18	0.01
26-Apr-04	15:00:00		120	67	53	11	43	21	22	0.01
26-Apr-04	16:00:00		78	48	30	6	64	40	24	0.01
26-Apr-04	17:00:00		41	24	16	17	32	11	21	0.01
26-Apr-04	18:00:00		180	114	66	12	81	49	31	0.01
26-Apr-04	19:00:00		283	180	103	15	26	10	16	0.01
26-Apr-04	20:00:00		257	202	55	26	116	76	40	0.05
26-Apr-04	21:00:00		381	340	41	45	234	195	39	0.16
26-Apr-04	22:00:00		421	381	40	45	318	286	33	0.13
26-Apr-04	23:00:00		472	435	37	35	460	420	40	0.2
27-Apr-04	0:00:00		464	426	38	35	401	356	45	0.28
27-Apr-04	1:00:00		386	347	39	34	363	315	49	0.34
27-Apr-04	2:00:00		454	413	41	38	406	353	53	0.38
27-Apr-04	3:00:00		477	433	44	34	348	299	48	0.21
27-Apr-04	4:00:00		432	395	37	32	356	302	54	0.47
27-Apr-04	5:00:00		454	407	47	35	299	269	30	0.16
27-Apr-04	6:00:00		465	406	59	29	293	253	39	0.18
27-Apr-04	7:00:00		312	243	69	39	329	290	39	0.29
27-Apr-04	8:00:00		161	128	32	18	196	160	36	0.03
27-Apr-04	9:00:00		145	101	44	22	100	75	25	0.01
27-Apr-04	10:00:00		86	52	33	12	47	32	15	0.01
27-Apr-04	11:00:00		83	50	33	17	74	48	27	0.03
27-Apr-04	12:00:00		93	57	36	1	34	18	15	0.03
27-Apr-04	13:00:00		90	53	37	7	37	19	18	0.04
27-Apr-04	14:00:00		140	88	52	12	50	29	20	0.04
27-Apr-04	15:00:00		105	68	38	15	83	50	33	0.05
27-Apr-04	16:00:00		42	19	23	16	100	64	36	0.04
27-Apr-04	17:00:00		72	39	33	17	112	68	44	0.05
27-Apr-04	18:00:00		118	69	49	18	118	69	49	0.04
27-Apr-04	19:00:00		140	83	57	23	52	29	23	0.04
27-Apr-04	20:00:00		175	101	74	10	165	105	61	0.06
27-Apr-04	21:00:00		289	201	88	33	455	309	146	0.11
27-Apr-04	22:00:00		446	376	70	42	363	260	103	0.28
27-Apr-04	23:00:00		506	423	83	49	499	423	76	0.2
28-Apr-04	0:00:00		584	518	66	45	432	372	60	0.19

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
28-Apr-04	1:00:00		684	614	70	36	436	377	58	0.19
28-Apr-04	2:00:00		706	629	77	37	504	446	59	0.16
28-Apr-04	3:00:00		740	660	80	47	557	507	50	0.18
28-Apr-04	4:00:00		685	627	58		466	431	36	0.92
28-Apr-04	5:00:00		693	621	72	81	1647	1345	303	0.34
28-Apr-04	6:00:00		462	409	53	56	464	420	44	0.5
28-Apr-04	7:00:00		446	383	63	21	355	313	42	0.2
28-Apr-04	8:00:00		480	394	86	9	122	100	22	0.24
28-Apr-04	9:00:00		214	157	56	9	240	147	93	0.08
28-Apr-04	10:00:00		139	71	68	5	71	40	30	0.07
28-Apr-04	11:00:00		222	158	64	10	58	21	36	0.05
28-Apr-04	12:00:00		180	113	68	11	34	17	18	0.04
28-Apr-04	13:00:00		308	203	106	11	34	16	18	0.06
28-Apr-04	14:00:00		327	195	132	8	51	25	25	0.05
28-Apr-04	15:00:00		61	38	23	6	16	7	9	0.05
28-Apr-04	16:00:00		83	55	28	7	13	4	9	0.08
28-Apr-04	17:00:00		112	70	42	10	105	59	46	0.1
28-Apr-04	18:00:00		130	77	53	18	122	64	58	0.09
28-Apr-04	19:00:00		101	58	43	16	156	103	53	0.15
28-Apr-04	20:00:00		155	103	52	32	148	103	45	0.29
28-Apr-04	21:00:00		361	280	81	32	338	272	66	1.22
28-Apr-04	22:00:00		537	478	59		653	550	103	1.92
28-Apr-04	23:00:00		557	502	55	105	727	667	61	1.4
29-Apr-04	0:00:00		484	428	56	81	478	419	59	0.78
29-Apr-04	1:00:00		400	340	60	47	502	447	55	0.49
29-Apr-04	2:00:00		521	464	58	40	474	424	49	0.46
29-Apr-04	3:00:00		516	472	44	46	441	407	34	0.54
29-Apr-04	4:00:00		698	649	49	45	564	530	35	0.56
29-Apr-04	5:00:00		727	684	43	54	668	629	39	0.81
29-Apr-04	6:00:00		778	699	80	47	624	590	35	1.32
29-Apr-04	7:00:00		775	721	54	67	644	606	38	1.36
29-Apr-04	8:00:00		634	585	49	69	638	591	47	0.25
29-Apr-04	9:00:00		163	113	49	38	198	136	63	0.05
29-Apr-04	10:00:00		74	44	30	26	77	43	34	0.04
29-Apr-04	11:00:00		26	9	17	17	55	34	21	0.03
29-Apr-04	12:00:00		28	9	18	12	27	12	15	0.04
29-Apr-04	13:00:00		48	21	27	21	35	16	19	0.06
29-Apr-04	14:00:00		49	22	27	19	62	33	28	0.07
29-Apr-04	15:00:00	47	59	23	36	36	81	36	45	0.07
29-Apr-04	16:00:00	38	90	50	40	32	66	29	37	0.09
29-Apr-04	17:00:00	25	116	72	44	19	88	44	43	0.1
29-Apr-04	18:00:00	28	137	83	54	26	103	60	43	0.1
29-Apr-04	19:00:00	23	138	84	53	22	152	93	59	0.12
29-Apr-04	20:00:00	26	38	15	24	36	173	104	69	0.13

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Apr-04	21:00:00	23	70	37	33	29	228	156	72	0.11
29-Apr-04	22:00:00	22	105	65	40	25	206	150	56	0.2
29-Apr-04	23:00:00	36	339	289	50	30	171	125	46	0.1
30-Apr-04	0:00:00	36	351	294	57	29	184	136	48	0.1
30-Apr-04	1:00:00	32	377	306	71	23	109	70	39	0.19
30-Apr-04	2:00:00	39	336	287	49	25	365	278	87	0.12
30-Apr-04	3:00:00	42	310	269	41	25	181	149	32	0.23
30-Apr-04	4:00:00		515	449	65	29	341	291	50	0.23
30-Apr-04	5:00:00	37	417	364	53	42	303	254	49	0.2
30-Apr-04	6:00:00	35	359	307	52	24	149	122	27	0.52
30-Apr-04	7:00:00	56	496	451	45	40	339	305	33	0.52
30-Apr-04	8:00:00	43	304	263	41	45	271	238	33	0.12
30-Apr-04	9:00:00	22	40	17	22	30	148	100	48	0.09
30-Apr-04	10:00:00	12	32	14	18	23	92	52	40	0.07
30-Apr-04	11:00:00	19	37	18	19	18	51	28	24	0.07
30-Apr-04	12:00:00	20	32	13	19	17	40	20	20	0.09
30-Apr-04	13:00:00	24	52	30	22	21	26	11	14	0.14
30-Apr-04	14:00:00	33	76	44	32	24	50	25	25	0.18
30-Apr-04	15:00:00	21	65	38	27	28	41	19	21	0.17
30-Apr-04	16:00:00		55	29	26	27	18	3	15	0.21
30-Apr-04	17:00:00	21	36	18	18	21	232	119	112	0.24
30-Apr-04	18:00:00	34	45	23	22	23	15	4	11	0.15
30-Apr-04	19:00:00	23	78	44	35	25	117	67	50	0.15
30-Apr-04	20:00:00	25	107	74	34	29	132	82	50	0.17
30-Apr-04	21:00:00	20	91	55	36	22	106	73	33	0.12
30-Apr-04	22:00:00	27	69	44	25	24	95	62	34	0.19
30-Apr-04	23:00:00	34	221	181	40	27	106	83	24	0.24
1-May-04	0:00:00	47	493	402	91	28	204	179	24	0.35
1-May-04	1:00:00	54	602	490	112	36	230	210	20	0.4
1-May-04	2:00:00	54	631	541	90	37	270	250	20	0.44
1-May-04	3:00:00	70	786	668	117	35	321	302	19	0.34
1-May-04	4:00:00	64	602	530	71	33	250	234	16	0.28
1-May-04	5:00:00	52	392	353	39	26	172	161	11	0.25
1-May-04	6:00:00	38	301	274	27	23	151	138	13	0.45
1-May-04	7:00:00	38	328	300	29	26	249	235	13	0.76
1-May-04	8:00:00	53	389	354	35	38	287	270	18	0.26
1-May-04	9:00:00	27	87	60	27	26	142	103	39	0.19
1-May-04	10:00:00	7	47	30	17	10	37	23	14	0.11
1-May-04	11:00:00	17	30	16	13	21	48	30	17	0.09
1-May-04	12:00:00	20	85	56	29	11	73	46	28	0.08
1-May-04	13:00:00	10	57	37	20	12	26	16	10	0.09
1-May-04	14:00:00	17	69	46	24	12	36	21	15	0.09
1-May-04	15:00:00	19	63	39	25	17	66	40	26	0.1
1-May-04	16:00:00	18	124	82	41	18	51	28	23	0.1

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-May-04	17:00:00	11	44	24	19	14	57	30	27	0.13
1-May-04	18:00:00	6	34	17	17	19	105	59	46	0.13
1-May-04	19:00:00	21	45	26	19	16	105	70	35	0.22
1-May-04	20:00:00	29	158	116	41	32	188	129	59	0.43
1-May-04	21:00:00	20	130	92	39	27	390	294	96	0.44
1-May-04	22:00:00	14	159	119	39	27	398	282	116	0.16
1-May-04	23:00:00	17	204	164	40	23	196	155	41	0.16
2-May-04	0:00:00	28	214	174	40	19	372	263	108	0.25
2-May-04	1:00:00	27	259	206	53	33	183	133	49	0.3
2-May-04	2:00:00	40	322	237	85	17	267	220	47	0.27
2-May-04	3:00:00	23	181	143	38	36	339	225	114	0.9
2-May-04	4:00:00	18	123	88	36	40	985	732	253	1.02
2-May-04	5:00:00	9	125	88	37	51	1028	733	295	0.7
2-May-04	6:00:00	22	160	118	42	43	813	594	219	0.14
2-May-04	7:00:00	22	154	111	43	31	261	208	53	0.14
2-May-04	8:00:00	7	105	69	36	6	219	139	80	0.1
2-May-04	9:00:00	11	110	75	35	12	183	135	48	0.07
2-May-04	10:00:00	14	199	141	58	4	41	32	9	0.07
2-May-04	11:00:00	2	81	56	25		59	47	12	0.08
2-May-04	12:00:00	10	63	44	19	3	70	46	24	0.07
2-May-04	13:00:00	2	59	38	21	6	80	63	16	0.06
2-May-04	14:00:00	7	79	55	24	3	41	32	10	0.05
2-May-04	15:00:00	5	140	93	47		36	24	11	0.05
2-May-04	16:00:00	12	132	77	55	6	57	40	16	0.05
2-May-04	17:00:00	17	135	93	42	7	45	29	16	0.03
2-May-04	18:00:00	13	153	105	49	1	39	23	16	0.03
2-May-04	19:00:00	27	300	215	85	6	25	13	12	0.03
2-May-04	20:00:00		305	214	91	6	38	17	20	0.04
2-May-04	21:00:00	30	213	138	75	15	40	15	25	0.04
2-May-04	22:00:00	15	317	239	78	1	68	45	23	0.04
2-May-04	23:00:00	24	417	310	107	18	89	64	25	0.07
3-May-04	0:00:00	26	311	261	49	5	98	74	24	0.07
3-May-04	1:00:00	24	336	276	60	11	54	43	10	0.06
3-May-04	2:00:00	22	282	244	38	14	91	84	7	0.05
3-May-04	3:00:00	25	359	285	74	12	64	59	5	0.04
3-May-04	4:00:00	24	249	218	31	9	65	57	8	0.21
3-May-04	5:00:00	36	280	238	42	12	404	336	67	0.18
3-May-04	6:00:00	31	397	306	91	26	111	86	24	0.12
3-May-04	7:00:00	19	243	185	57	7	84	73	11	0.06
3-May-04	8:00:00	14	119	91	29	10	47	28	19	0.04
3-May-04	9:00:00	12	133	95	37	4	14	7	8	0.03
3-May-04	10:00:00	12	139	95	43	8	7	1	6	0.03
3-May-04	11:00:00	11	32	20	12	2	3	0	3	0.03
3-May-04	12:00:00	9	38	19	19	1	5	0	5	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-May-04	13:00:00	4	109	65	44	4	19	10	9	0.03
3-May-04	14:00:00	5	30	16	14	4				0.04
3-May-04	15:00:00	17	72	40	32	13	25	6	19	0.04
3-May-04	16:00:00	15	65	35	31	13	11	2	9	0.06
3-May-04	17:00:00	10	52	26	26	9	12	1	11	0.04
3-May-04	18:00:00	24	196	127	69	10	8	1	7	0.13
3-May-04	19:00:00	14	132	89	43	7	64	45	18	0.18
3-May-04	20:00:00	28	199	170	29	23	155	126	29	0.14
3-May-04	21:00:00	31	300	265	35	23	115	88	27	0.15
3-May-04	22:00:00	32	349	316	33	20	185	164	21	0.33
3-May-04	23:00:00	44	490	453	36	38	319	285	34	0.33
4-May-04	0:00:00	47	496	449	47	32	367	301	65	0.35
4-May-04	1:00:00	41	513	467	47	34	430	348	82	0.42
4-May-04	2:00:00	31	378	325	53	24	358	298	60	0.4
4-May-04	3:00:00	30	364	313	52	25	321	267	54	0.3
4-May-04	4:00:00	30	359	305	54	23	255	188	67	0.24
4-May-04	5:00:00	33	445	356	89	20	295	216	79	0.64
4-May-04	6:00:00	32	553	472	81	28	478	378	100	0.5
4-May-04	7:00:00	26	548	448	100	28	358	301	56	0.4
4-May-04	8:00:00	52	485	415	70	16	230	211	19	0.26
4-May-04	9:00:00	21	192	170	22	20	206	184	22	0.09
4-May-04	10:00:00	17	71	55	16	16	84	64	20	0.05
4-May-04	11:00:00	13	26	14	12	10	12	6	6	0.06
4-May-04	12:00:00	15	37	19	18	13	75	41	34	0.07
4-May-04	13:00:00	10	41	22	19	16	59	33	26	0.07
4-May-04	14:00:00	9	48	28	19	11	116	68	47	0.07
4-May-04	15:00:00	17	75	42	33	16	81	45	36	0.07
4-May-04	16:00:00	18	69	39	30	21	100	61	39	0.08
4-May-04	17:00:00	21	97	64	33	18	126	77	49	0.16
4-May-04	18:00:00	30	109	64	44	31	291	198	93	0.14
4-May-04	19:00:00	30	82	45	37	30	648	421	227	0.14
4-May-04	20:00:00	18	145	88	57	29	289	202	87	0.24
4-May-04	21:00:00	27	179	132	47	34	305	245	60	0.3
4-May-04	22:00:00	35	356	307	49	38	428	348	81	0.31
4-May-04	23:00:00	50	445	394	51	43	399	327	72	0.3
5-May-04	0:00:00	45	583	530	53	41	448	415	33	0.28
5-May-04	1:00:00	44	389	335	54	40	440	404	36	0.18
5-May-04	2:00:00	23	160	116	44	35	382	335	47	0.15
5-May-04	3:00:00	49	506	464	42	32	342	298	44	0.17
5-May-04	4:00:00	50	563	521	42		412	379	33	0.24
5-May-04	5:00:00	49	698	645	53	31	502	472	30	0.6
5-May-04	6:00:00	41	496	441	55	64	575	509	67	0.56
5-May-04	7:00:00	43	391	341	50	62	532	456	76	0.36
5-May-04	8:00:00	51	361	310	51	43	287	251	36	0.16

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-May-04	9:00:00	33	227	186	40	35	173	138	35	0.14
5-May-04	10:00:00	10	157	115	41	15	112	84	28	0.08
5-May-04	11:00:00	17	117	78	39	18	51	29	22	0.08
5-May-04	12:00:00	24	126	81	45	16	59	34	25	0.08
5-May-04	13:00:00	29	156	101	55	19	86	50	36	0.09
5-May-04	14:00:00	23	106	55	51	19	74	39	34	0.11
5-May-04	15:00:00	31	110	62	48	16	62	30	32	0.15
5-May-04	16:00:00	25	129	74	54	31	131	77	54	0.17
5-May-04	17:00:00	34	204	125	79	31	110	53	58	0.24
5-May-04	18:00:00	24	182	118	64	28	146	83	64	0.3
5-May-04	19:00:00	36	248	172	76	34	217	134	83	0.51
5-May-04	20:00:00	50	394	330	64	58	382	311	70	0.51
5-May-04	21:00:00	56	494	429	64	44	507	408	99	0.79
5-May-04	22:00:00	56	561	504	57	58	737	630	107	0.54
5-May-04	23:00:00	57	614	545	69	52	570	495	75	0.55
6-May-04	0:00:00	58	627	572	55	53	663	599	63	0.59
6-May-04	1:00:00	56	479	438	41	57	572	519	54	0.43
6-May-04	2:00:00	47	469	441	28	48	502	469	33	0.37
6-May-04	3:00:00	52	534	503	31	38	550	487	63	0.49
6-May-04	4:00:00	55	556	517	39	51	612	549	63	0.56
6-May-04	5:00:00	58	633	599	34	63	748	663	85	0.56
6-May-04	6:00:00	51	482	442	40	60	688	580	108	0.89
6-May-04	7:00:00	49	406	369	37	46	575	521	54	0.39
6-May-04	8:00:00	38	302	258	44	36	283	238	46	0.24
6-May-04	9:00:00	26	174	132	42	25	259	195	64	0.12
6-May-04	10:00:00	24	137	86	51	21	203	131	72	0.05
6-May-04	11:00:00	22	104	65	39	11	71	38	33	0.06
6-May-04	12:00:00	16	101	53	47	21	76	34	41	1.68
6-May-04	13:00:00	23	146	92	54	16	67	34	33	0.05
6-May-04	14:00:00	20	136	88	48	20	82	41	40	0.15
6-May-04	15:00:00	22	118	73	46	12	80	45	35	0.07
6-May-04	16:00:00	22	171	108	62	22	106	61	45	0.08
6-May-04	17:00:00	27	183	126	58	18	131	79	52	0.09
6-May-04	18:00:00	23	151	96	55	22	153	97	56	0.15
6-May-04	19:00:00	24	150	91	59	22	270	169	101	0.13
6-May-04	20:00:00	35	215	136	79	23	154	100	55	0.3
6-May-04	21:00:00	40	557	464	93		250	190	60	0.51
6-May-04	22:00:00	41	470	398	72	38	404	353	51	0.58
6-May-04	23:00:00	52	533	464	68	49	426	368	58	0.5
7-May-04	0:00:00	48	544	470	74	38	293	247	46	0.41
7-May-04	1:00:00	50	460	387	74	39	267	227	40	0.2
7-May-04	2:00:00	53	514	443	71	34	268	227	41	0.25
7-May-04	3:00:00	52	479	431	48	38	371	337	35	0.33
7-May-04	4:00:00	55	505	463	42	42	447	403	44	0.34



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-May-04	5:00:00	58	516	476	40	38	484	444	40	0.48
7-May-04	6:00:00	59	595	545	50	38	487	458	30	0.6
7-May-04	7:00:00	52	555	514	40	46	528	472	56	0.82
7-May-04	8:00:00	59	626	538	88	58	583	524	59	0.16
7-May-04	9:00:00	20	144	98	46	31	112	73	39	0.11
7-May-04	10:00:00	22	102	62	40	19	118	72	46	0.06
7-May-04	11:00:00	21	71	36	36	14	61	28	33	0.06
7-May-04	12:00:00	15	93	53	39	15	44	24	20	0.05
7-May-04	13:00:00	19	74	40	34	15	23	9	15	0.17
7-May-04	14:00:00	10	80	43	38	8	31	11	20	0.09
7-May-04	15:00:00	18	132	83	49	6	80	42	38	0.13
7-May-04	16:00:00	18	119	69	49	11	60	27	33	0.08
7-May-04	17:00:00	23	114	69	45	16	65	31	35	0.1
7-May-04	18:00:00	24	134	79	55	18	189	114	75	0.3
7-May-04	19:00:00	24	218	155	63	28	328	225	103	0.48
7-May-04	20:00:00	36	306	249	58	37	517	405	112	0.57
7-May-04	21:00:00	50	375	306	69	47	465	379	86	0.58
7-May-04	22:00:00	37	368	315	52	43	284	237	47	0.79
7-May-04	23:00:00	41	447	392	54	37	400	324	77	0.62
8-May-04	0:00:00	42	512	443	69	39	260	227	33	0.36
8-May-04	1:00:00	43	423	378	45	25	245	211	33	0.3
8-May-04	2:00:00	39	355	314	41	26	220	195	25	0.31
8-May-04	3:00:00	46	480	430	50	30	274	244	30	0.32
8-May-04	4:00:00	46	407	370	37	38	295	267	28	0.23
8-May-04	5:00:00	34	357	321	36	29	231	211	20	0.26
8-May-04	6:00:00	42	406	362	44	28	196	176	19	0.46
8-May-04	7:00:00	40	394	344	50	23	197	180	17	0.32
8-May-04	8:00:00	23	242	211	31	20	162	125	36	0.16
8-May-04	9:00:00	17	151	98	53	21	85	59	27	0.16
8-May-04	10:00:00	24	94	57	38	20	91	58	32	0.14
8-May-04	11:00:00	22	108	57	50	26	59	27	33	0.08
8-May-04	12:00:00		58	24	34	22	40	14	26	0.05
8-May-04	13:00:00	20	128	72	55	12	36	12	24	0.05
8-May-04	14:00:00	18	84	48	36	14	52	28	24	0.05
8-May-04	15:00:00	18	92	52	39	12	70	35	35	0.05
8-May-04	16:00:00	12	105	65	41	13	96	53	42	0.07
8-May-04	17:00:00	24	117	59	58	20	71	38	33	0.13
8-May-04	18:00:00	29	91	43	48	33	213	120	93	0.27
8-May-04	19:00:00	30	45	16	30	39	454	316	137	0.15
8-May-04	20:00:00	38	179	111	68	37	136	78	58	0.2
8-May-04	21:00:00	45	307	241	66	32	206	127	79	0.32
8-May-04	22:00:00	34	178	124	55	41	267	197	70	0.28
8-May-04	23:00:00	33	275	212	63	37	212	156	56	0.31
9-May-04	0:00:00	44	461	385	75	33	233	181	53	0.33

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-May-04	1:00:00	50	444	385	58	34	252	198	54	0.27
9-May-04	2:00:00	40	646	547	99	31	377	300	76	0.2
9-May-04	3:00:00	48	511	425	86	26	280	209	71	0.19
9-May-04	4:00:00	55	505	423	82	30	221	169	53	0.14
9-May-04	5:00:00	32	422	341	81	21	194	148	46	0.19
9-May-04	6:00:00	41	398	338	60	33	207	169	38	0.24
9-May-04	7:00:00	40	483	391	92		215	167	48	0.14
9-May-04	8:00:00	36	858	656	202	15	126	88	38	0.08
9-May-04	9:00:00		712	511	201	21	96	58	38	0.07
9-May-04	10:00:00	20	406	274	131	15	64	39	25	0.11
9-May-04	11:00:00	29	374	240	134	23	114	78	36	0.08
9-May-04	12:00:00	27	284	188	96	18	81	43	38	0.06
9-May-04	13:00:00	28	164	86	78	22	45	14	32	0.08
9-May-04	14:00:00	31	201	124	77	24	131	63	67	0.08
9-May-04	15:00:00	26	160	96	64	28	175	97	78	0.11
9-May-04	16:00:00	24	183	110	73	32	417	282	135	0.08
9-May-04	17:00:00	37	155	79	76	26	123	64	59	0.07
9-May-04	18:00:00	31	131	78	52	25	99	60	39	0.06
9-May-04	19:00:00	32	72	32	39	29	59	27	32	0.07
9-May-04	20:00:00	27	193	104	90	22	83	45	38	0.07
9-May-04	21:00:00	28	102	58	44	28	160	108	51	0.19
9-May-04	22:00:00	37	335	264	71	37	273	216	56	0.22
9-May-04	23:00:00	46	320	257	64	33	257	192	64	0.32
10-May-04	0:00:00	39	446	380	65	42	451	374	77	0.42
10-May-04	1:00:00	44	526	441	84	39	507	421	86	0.39
10-May-04	2:00:00	47	495	428	68	44	427	347	80	0.3
10-May-04	3:00:00	56	536	463	73	45	364	317	47	0.15
10-May-04	4:00:00		400	339	61	39	288	249	38	0.19
10-May-04	5:00:00	46	389	350	39	35	342	307	34	0.32
10-May-04	6:00:00	59	493	454	38	53	400	372	29	0.93
10-May-04	7:00:00	58	498	443	55	41	313	293	20	0.82
10-May-04	8:00:00	45	318	278	40	42	210	189	21	0.38
10-May-04	9:00:00	35	200	158	42	37	145	123	22	0.14
10-May-04	10:00:00	27	60	31	30	20	50	25	25	0.07
10-May-04	11:00:00	33	65	36	30	31	49	27	22	0.05
10-May-04	12:00:00	41	95	57	37	38	62	34	28	0.06
10-May-04	13:00:00	29	129	75	54	29	41	20	21	0.06
10-May-04	14:00:00	40	92	50	41	26	41	17	24	0.06
10-May-04	15:00:00	32	92	54	38	32	66	27	39	0.07
10-May-04	16:00:00	45	72	39	33	33	16	2	14	0.07
10-May-04	17:00:00	42	105	60	45	37	65	31	34	0.07
10-May-04	18:00:00	42	107	59	49	38	99	42	57	0.08
10-May-04	19:00:00	26	44	17	27	37	41	16	25	0.07
10-May-04	20:00:00	30	140	100	41	31	118	84	34	0.07

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
10-May-04	21:00:00	41	192	150	42	31	140	94	46	0.15
10-May-04	22:00:00	47	294	249	46	39	255	176	78	0.14
10-May-04	23:00:00	53	426	333	92	42	229	158	71	0.15
11-May-04	0:00:00	44	417	341	76	35	330	258	72	0.16
11-May-04	1:00:00	64	602	480	122	52	365	283	82	0.15
11-May-04	2:00:00	62	543	448	96	45	303	221	83	0.15
11-May-04	3:00:00	55	627	494	133	31	279	215	64	0.21
11-May-04	4:00:00	50	489	416	73	32	412	303	109	0.21
11-May-04	5:00:00	47	699	590	109	28	332	256	76	0.18
11-May-04	6:00:00	51	400	360	40	39	167	149	17	0.44
11-May-04	7:00:00	60	546	457	89	38	254	206	49	0.24
11-May-04	8:00:00	80	836	705	131	28	104	90	14	0.09
11-May-04	9:00:00	32	153	101	52	18	42	26	16	0.05
11-May-04	10:00:00	24	47	23	23	24	37	18	19	0.06
11-May-04	11:00:00	30	109	71	38	36	62	31	31	0.05
11-May-04	12:00:00	32	76	38	39	30	51	24	26	0.06
11-May-04	13:00:00	33	92	54	38	41	72	37	35	0.06
11-May-04	14:00:00	38	158	97	60	37	53	23	30	0.05
11-May-04	15:00:00	46	106	61	45	28	28	10	18	0.06
11-May-04	16:00:00	40	88	47	41	45	59	28	31	0.08
11-May-04	17:00:00	45	74	38	36	45	65	34	31	0.06
11-May-04	18:00:00	32	92	52	40	30	62	30	32	0.04
11-May-04	19:00:00	22	87	44	43	19	54	24	29	0.06
11-May-04	20:00:00	32	188	125	63	33	108	66	41	0.12
11-May-04	21:00:00	38	196	137	59	35	188	108	80	0.1
11-May-04	22:00:00	39	334	259	74	38	60	31	29	0.07
11-May-04	23:00:00	44	420	340	80	35	93	65	28	0.1
12-May-04	0:00:00	55	425	366	60	27	116	83	34	0.1
12-May-04	1:00:00	57	560	487	72	52	341	283	58	0.07
12-May-04	2:00:00	70	699	587	112	34	255	205	50	0.11
12-May-04	3:00:00	55	472	406	66	36	360	283	77	0.08
12-May-04	4:00:00	61	786	680	106	34	227	192	35	0.06
12-May-04	5:00:00	59	517	455	62	32	158	142	16	0.15
12-May-04	6:00:00	52	484	427	57	34	249	231	19	0.62
12-May-04	7:00:00	69	566	511	55	42	291	272	18	0.48
12-May-04	8:00:00	49	397	341	56	37	260	230	30	0.14
12-May-04	9:00:00	30	70	50	21	29	132	94	38	0.1
12-May-04	10:00:00	11	72	43	29	32	231	158	73	0.04
12-May-04	11:00:00	26	57	33	24	24	142	94	48	0.03
12-May-04	12:00:00	32	77	45	32	27	93	51	42	0.02
12-May-04	13:00:00	24	62	34	28	28	68	43	24	0.02
12-May-04	14:00:00	29	41	21	20	21	28	16	12	0.03
12-May-04	15:00:00	19	79	47	32	24	118	77	41	0.06
12-May-04	16:00:00	38	215	137	78	34	222	149	74	0.05

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-May-04	17:00:00	17	146	93	53	24	225	144	80	0.03
12-May-04	18:00:00	27	140	88	52	21	115	72	42	0.03
12-May-04	19:00:00	26	107	67	41	28	108	68	41	0.03
12-May-04	20:00:00	37	82	48	35	33	46	24	23	0.03
12-May-04	21:00:00	42	217	167	51	21	60	33	27	0.15
12-May-04	22:00:00	40	228	189	39	35	249	200	49	0.1
12-May-04	23:00:00	30	95	59	36	35	235	174	60	0.08
13-May-04	0:00:00	38	226	160	66	40	296	250	46	0.06
13-May-04	1:00:00	29	195	135	61	35	501	406	95	0.04
13-May-04	2:00:00	24	192	128	64	33	485	399	86	0.03
13-May-04	3:00:00	27	227	153	74	19	473	370	103	0.03
13-May-04	4:00:00	20	229	170	59	26	319	232	87	0.03
13-May-04	5:00:00	32	301	261	39	25	209	167	42	0.06
13-May-04	6:00:00	24	267	223	45	24	212	171	42	0.24
13-May-04	7:00:00	27	316	265	52	22	226	179	47	0.15
13-May-04	8:00:00	13	199	161	37	11	111	80	31	0.06
13-May-04	9:00:00	11	95	66	29	15	100	67	33	0.02
13-May-04	10:00:00	20	63	36	27	15	49	26	22	0.02
13-May-04	11:00:00	10				17	27	14	13	
13-May-04	12:00:00	13	186	162	23	28	153	120	33	
13-May-04	13:00:00	30	107	71	36	21	85	55	30	
13-May-04	14:00:00	9	66	38	27	19	54	32	22	
13-May-04	15:00:00	24	45	26	19	52	27	17	10	
13-May-04	16:00:00	3	98	58	40	10	44	26	18	
13-May-04	17:00:00	7	193	138	55	9	85	54	31	
13-May-04	18:00:00	32	435	304	131	33	125	79	46	
13-May-04	19:00:00	33	157	105	52	21	34	14	20	
13-May-04	20:00:00	47	190	129	61	33	57	34	23	
13-May-04	21:00:00	83	577	431	145	15	209	153	56	
13-May-04	22:00:00	73	550	389	160	20	140	97	43	
13-May-04	23:00:00	65	555	424	130	30	127	84	43	
14-May-04	0:00:00	80	792	603	189	22	162	121	40	
14-May-04	1:00:00	102	696	570	126	21	51	32	19	
14-May-04	2:00:00	83	602	489	112	30	67	50	17	
14-May-04	3:00:00	51	360	318	43	25	115	98	17	
14-May-04	4:00:00	50	493	447	46	30	264	244	19	
14-May-04	5:00:00	43	490	443	48	32	237	227	10	
14-May-04	6:00:00	33	283	249	34	26	182	175	7	
14-May-04	7:00:00	39	450	402	48	39	336	318	18	
14-May-04	8:00:00	27	214	171	43	18	123	106	17	
14-May-04	9:00:00	29	127	72	55	26	119	87	32	0.01
14-May-04	10:00:00	19	72	46	26	23	98	65	33	0.01
14-May-04	11:00:00	17	91	58	33	25	98	68	29	0.02
14-May-04	12:00:00	23	76	49	28	17	91	59	32	0.02

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-May-04	13:00:00	22	86	56	29	28	110	75	35	0.01
14-May-04	14:00:00	21	76	47	29	25	50	30	20	0.01
14-May-04	15:00:00	23	69	39	30	21	42	23	19	0.01
14-May-04	16:00:00	20	66	38	28	12	32	15	17	0.01
14-May-04	17:00:00	17	68	40	28	21	36	18	18	0.01
14-May-04	18:00:00	21	69	38	31	11	21	9	13	0.01
14-May-04	19:00:00	15	61	33	28	20	23	10	13	0.01
14-May-04	20:00:00	23	70	37	32	28	69	38	31	0.05
14-May-04	21:00:00	23	81	52	29	26	101	66	34	0.03
14-May-04	22:00:00	25	130	92	38		138	90	48	0.12
14-May-04	23:00:00	35	305	252	53	26	306	224	83	0.08
15-May-04	0:00:00	36	323	283	40	27	248	195	53	0.04
15-May-04	1:00:00	46	314	278	36	34	155	105	50	0.08
15-May-04	2:00:00	38	265	237	29	26	251	202	49	0.06
15-May-04	3:00:00	29	236	212	24	24	149	132	17	0.06
15-May-04	4:00:00	37	190	170	20	28	227	205	22	0.06
15-May-04	5:00:00	41	302	278	24	33	250	213	36	0.08
15-May-04	6:00:00	42	242	220	22	21	175	156	19	0.17
15-May-04	7:00:00	41	318	287	30	31	221	208	13	0.06
15-May-04	8:00:00	22	201	150	51	31	274	189	85	0.01
15-May-04	9:00:00	18	82	58	25	11	90	63	27	0.01
15-May-04	10:00:00	18	88	58	31	23	114	78	36	0.01
15-May-04	11:00:00	18	129	93	36	24	116	76	41	0.01
15-May-04	12:00:00	29	120	81	40	25	80	54	25	0.01
15-May-04	13:00:00	28	110	69	41	24	78	46	33	0.01
15-May-04	14:00:00	24	119	80	38	29	86	50	36	0.02
15-May-04	15:00:00	38	147	98	50	30	307	242	65	0.02
15-May-04	16:00:00	48	145	93	52	39	166	93	73	0.02
15-May-04	17:00:00	35	101	60	41	39	97	58	39	0.05
15-May-04	18:00:00	36	132	89	42	43	234	160	74	0.06
15-May-04	19:00:00	34	172	123	49	61	415	296	119	0.09
15-May-04	20:00:00	42	177	125	53	60	237	170	67	0.08
15-May-04	21:00:00	44	223	170	53	48	123	83	40	0.03
15-May-04	22:00:00	47	308	262	47	38	157	111	46	0.09
15-May-04	23:00:00	47	955	750	204	36	133	100	32	0.08
16-May-04	0:00:00	56	1084	858	226	37	180	147	33	0.07
16-May-04	1:00:00	53	879	641	238	38	82	65	18	0.03
16-May-04	2:00:00	47	258	193	64	40	41	26	15	0.02
16-May-04	3:00:00	38	271	194	76	34	27	14	13	0.01
16-May-04	4:00:00		319	229	90	24	19	9	10	0.01
16-May-04	5:00:00	38	346	261	85	21	19	9	10	0.05
16-May-04	6:00:00	38	266	225	41	25	87	72	15	0.11
16-May-04	7:00:00	32	345	288	57	22	165	123	42	0.08
16-May-04	8:00:00	36	292	227	65	16	102	72	30	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-May-04	9:00:00	16	97	63	34	11	98	69	28	0.02
16-May-04	10:00:00	21	115	77	38	35	364	250	115	0.01
16-May-04	11:00:00	27	101	66	36	31	196	130	66	0.01
16-May-04	12:00:00	28	147	90	57	31	149	91	58	0.02
16-May-04	13:00:00	22	129	87	42	32	209	137	72	0.02
16-May-04	14:00:00	34	179	122	56	38	181	117	64	0.02
16-May-04	15:00:00	31	137	87	50	22	219	134	85	0.02
16-May-04	16:00:00	21	159	113	46	25	277	184	93	0.03
16-May-04	17:00:00	24	139	97	42	23	247	162	84	0.01
16-May-04	18:00:00	27	85	49	36	27	82	53	30	0.01
16-May-04	19:00:00	23	230	157	73	30	122	79	43	0.01
16-May-04	20:00:00	22	224	159	65	24	55	29	26	0.01
16-May-04	21:00:00	8	104	64	40	23	45	29	16	0.09
16-May-04	22:00:00	15	161	104	57	33	464	323	141	0.02
16-May-04	23:00:00	28	242	171	71	29	76	52	24	0.05
17-May-04	0:00:00	26	136	99	37	25	93	61	31	0.06
17-May-04	1:00:00	21	192	159	33	26	250	183	67	0.03
17-May-04	2:00:00	22	210	163	46	38	65	46	19	0.01
17-May-04	3:00:00	38	287	232	55	24	47	32	15	0.01
17-May-04	4:00:00	36	225	169	56	45	52	38	15	0.01
17-May-04	5:00:00	39	342	231	112	24	43	31	12	0.03
17-May-04	6:00:00	34	231	195	37	31	70	59	11	0.13
17-May-04	7:00:00	29	196	170	26	44	128	119	9	0.04
17-May-04	8:00:00	31	149	107	42	35	62	51	12	0.04
17-May-04	9:00:00	26	76	57	19	40	74	58	15	0.01
17-May-04	10:00:00	11	28	15	13	14	25	15	10	0.07
17-May-04	11:00:00	23	40	23	17	28	73	38	35	0.07
17-May-04	12:00:00	27	52	29	23	14	30	16	14	0.07
17-May-04	13:00:00	29	86	57	29	17	49	31	19	0.07
17-May-04	14:00:00	11	73	48	25	19	76	46	30	0.05
17-May-04	15:00:00	2				23	31	18	13	0.07
17-May-04	16:00:00	3				3	67	48	19	0.07
17-May-04	17:00:00	10	63	33	30	17	36	27	9	0.07
17-May-04	18:00:00	15	115	73	42	9	29	16	13	0.07
17-May-04	19:00:00	23	90	56	34	16	24	13	11	0.11
17-May-04	20:00:00	23	81	55	26	22	89	58	31	0.11
17-May-04	21:00:00	20	90	57	34	23	128	80	48	0.21
17-May-04	22:00:00	30	155	119	37	26	216	177	40	0.12
17-May-04	23:00:00	35	158	122	36	32	130	100	30	0.13
18-May-04	0:00:00	28	148	118	30	18	114	73	41	0.14
18-May-04	1:00:00	38	218	189	29	30	279	208	71	0.2
18-May-04	2:00:00	41	273	248	25	36	305	256	50	0.22
18-May-04	3:00:00	39	280	249	31	35	383	293	90	0.18
18-May-04	4:00:00	41	270	247	22	39	363	294	69	0.27

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-May-04	5:00:00	43	357	330	27	44	487	443	44	0.36
18-May-04	6:00:00	51	404	361	43	47	462	418	44	0.62
18-May-04	7:00:00	52	389	365	24	51	401	375	26	0.53
18-May-04	8:00:00	56	285	254	31	47	315	283	32	0.13
18-May-04	9:00:00	26	79	54	26	25	137	104	33	0.11
18-May-04	10:00:00	17	102	70	32	15	126	89	37	0.1
18-May-04	11:00:00	32	78	46	31	25	56	34	22	0.11
18-May-04	12:00:00	30	108	70	38	25	131	82	49	0.09
18-May-04	13:00:00	26	111	72	39	21	106	68	38	0.09
18-May-04	14:00:00	26	160	116	44	21	100	65	36	0.09
18-May-04	15:00:00	32	130	87	43	19	70	39	31	0.09
18-May-04	16:00:00	24	69	44	25	16	35	19	16	0.1
18-May-04	17:00:00	30	103	70	34	27	56	34	22	0.14
18-May-04	18:00:00	36	122	76	46	22	129	80	49	0.14
18-May-04	19:00:00	30	333	202	131	30	163	111	52	0.16
18-May-04	20:00:00	43	353	220	133	26	205	150	55	0.16
18-May-04	21:00:00	29	169	120	49	32	149	87	61	0.32
18-May-04	22:00:00	38	160	116	44	28	242	149	93	0.48
18-May-04	23:00:00	31	98	68	30	37	378	283	95	0.4
19-May-04	0:00:00	47	127	85	42	60	386	336	50	0.3
19-May-04	1:00:00	55	250	187	63	58	352	315	37	0.16
19-May-04	2:00:00	37	220	172	47	43	340	308	32	0.2
19-May-04	3:00:00	38	332	252	80	44	462	424	37	0.19
19-May-04	4:00:00	48	264	206	58	46	465	431	34	0.15
19-May-04	5:00:00	28	172	133	38	40	416	385	32	0.17
19-May-04	6:00:00	42	219	178	41	38	382	355	27	0.2
19-May-04	7:00:00	30	125	90	35	34	387	358	29	0.13
19-May-04	8:00:00	18	155	117	38	25	257	232	25	0.08
19-May-04	9:00:00	18	125	90	34	17	183	157	26	0.07
19-May-04	10:00:00	19	103	68	34	28	164	133	31	0.07
19-May-04	11:00:00	35	107	70	38	36	153	119	34	0.06
19-May-04	12:00:00	33	86	54	32	39	135	94	40	0.05
19-May-04	13:00:00	41	79	48	31	44	110	69	41	0.05
19-May-04	14:00:00	20	94	61	33	29	110	70	40	0.07
19-May-04	15:00:00	26	97	60	37	25	142	103	39	0.07
19-May-04	16:00:00	33	149	109	41	22	129	91	38	0.07
19-May-04	17:00:00	22	165	111	55	25	179	138	41	0.09
19-May-04	18:00:00	28	263	193	70	35	202	164	38	0.07
19-May-04	19:00:00	26	166	116	50	33	192	155	36	0.33
19-May-04	20:00:00	21	163	114	49	28	152	118	34	0.59
19-May-04	21:00:00	31	279	225	54	30	200	175	25	0.27
19-May-04	22:00:00	37	321	270	51	36	290	266	23	0.31
19-May-04	23:00:00	39	376	334	42	39	318	296	22	0.35
20-May-04	0:00:00	44	318	273	45	48	348	324	24	0.41

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-May-04	1:00:00	49	420	373	48	52	394	372	22	0.44
20-May-04	2:00:00	52	452	398	54	54	415	400	15	0.32
20-May-04	3:00:00	58	545	478	67	54	387	378	10	0.29
20-May-04	4:00:00	45	390	352	38	49	411	404	6	0.35
20-May-04	5:00:00	48	697	616	81	43	365	358	7	0.37
20-May-04	6:00:00	62	720	638	82	57	331	321	10	0.77
20-May-04	7:00:00	83	656	592	64	63	409	399	10	0.56
20-May-04	8:00:00	40	188	140	48	45	365	346	20	0.17
20-May-04	9:00:00	33	206	149	57	34	253	224	29	0.1
20-May-04	10:00:00	17	118	71	47	22	247	208	39	0.06
20-May-04	11:00:00	15	67	40	27	20	204	162	42	0.04
20-May-04	12:00:00	12	77	49	28	10	96	62	35	0.04
20-May-04	13:00:00	12	92	63	29	12	110	77	34	0.04
20-May-04	14:00:00	13	145	100	45	12	121	89	32	0.04
20-May-04	15:00:00	12	107	68	39	16	89	59	30	0.05
20-May-04	16:00:00	21	145	96	49	6	101	69	33	0.05
20-May-04	17:00:00	18	157	115	42	15	133	99	34	0.06
20-May-04	18:00:00	25	181	129	53	20	190	154	36	0.12
20-May-04	19:00:00	26	123	84	39	24	480	438	42	0.12
20-May-04	20:00:00	16	62	37	25	36	510	463	47	0.14
20-May-04	21:00:00	22	106	73	34	31	318	284	34	0.19
20-May-04	22:00:00	40	364	320	44	35	258	236	21	0.24
20-May-04	23:00:00	31	379	335	44	38	317	298	19	0.27
21-May-04	0:00:00	44	415	361	53	33	324	311	13	0.29
21-May-04	1:00:00	36	490	421	69	28	294	276	17	0.24
21-May-04	2:00:00	53	516	427	90	30	275	262	13	0.23
21-May-04	3:00:00	46	578	491	87	33	322	309	12	0.23
21-May-04	4:00:00	46	604	534	70		316	304	12	0.24
21-May-04	5:00:00	51	513	447	66	38	326	319	7	0.21
21-May-04	6:00:00	44	373	326	47	43	302	293	9	0.3
21-May-04	7:00:00	45	221	189	32	38	286	276	10	0.21
21-May-04	8:00:00	31	148	102	46	25	167	150	18	0.25
21-May-04	9:00:00	23	122	85	37	17	110	84	26	0.09
21-May-04	10:00:00	21	99	63	35	25	74	43	31	0.04
21-May-04	11:00:00	14	104	61	42	2	60	24	36	0.04
21-May-04	12:00:00	9	133	95	38	17	27	15	12	0.05
21-May-04	13:00:00	16	134	91	43	3	36	21	15	0.08
21-May-04	14:00:00	9	124	82	42	14	41	25	15	0.05
21-May-04	15:00:00	9	106	68	38	5	47	26	21	0.06
21-May-04	16:00:00	25	159	113	46	10	74	49	26	0.07
21-May-04	17:00:00	20	220	148	72	13	104	66	38	0.05
21-May-04	18:00:00	19	131	94	37	18	52	30	22	0.05
21-May-04	19:00:00	20	132	91	41	16	117	81	36	0.08
21-May-04	20:00:00	22	146	108	38	20	102	71	31	0.27



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
21-May-04	21:00:00	39	470	387	83	30	315	264	51	0.18
21-May-04	22:00:00	33	437	378	59	34	136	107	29	0.21
21-May-04	23:00:00	44	342	287	55	19	174	131	43	0.25
22-May-04	0:00:00	49	420	371	49	27	176	157	19	0.3
22-May-04	1:00:00	42	374	334	39	37	259	233	26	0.28
22-May-04	2:00:00	42	267	234	34	33	246	219	27	0.27
22-May-04	3:00:00	38	396	318	78	31	205	183	22	0.22
22-May-04	4:00:00	45	339	286	53	26	139	120	19	0.27
22-May-04	5:00:00	43	519	433	87	30	208	193	16	0.34
22-May-04	6:00:00	42	540	453	87	28	265	219	46	0.5
22-May-04	7:00:00	50	851	735	116	30	377	321	56	0.32
22-May-04	8:00:00	37	262	210	53	34	200	166	34	0.13
22-May-04	9:00:00	27	137	92	45	18	175	122	53	0.11
22-May-04	10:00:00	29	142	89	52	25	129	81	48	0.09
22-May-04	11:00:00	19	115	63	52	28	176	114	62	0.06
22-May-04	12:00:00	37	146	94	52	21	90	51	39	0.07
22-May-04	13:00:00	24	91	55	36	17	49	23	26	0.07
22-May-04	14:00:00	23	104	62	42	24	61	31	30	0.08
22-May-04	15:00:00	32	111	70	41	22	60	31	29	0.11
22-May-04	16:00:00	54	105	59	46	98	59	30	29	0.22
22-May-04	17:00:00	37	467	357	111	46	86	49	37	0.19
22-May-04	18:00:00	83	322	227	95	16	63	33	31	0.12
22-May-04	19:00:00		95	56	39		140	81	59	0.2
22-May-04	20:00:00	30	152	103	49	40	266	186	80	0.24
22-May-04	21:00:00	28	198	149	49	33	237	182	55	0.26
22-May-04	22:00:00	31	287	252	35	26	212	161	51	0.35
22-May-04	23:00:00	43	337	297	40	34	231	200	31	0.35
23-May-04	0:00:00	44	301	270	30	37	298	253	45	0.37
23-May-04	1:00:00	51	248	222	26	47	210	187	23	0.4
23-May-04	2:00:00	47	357	319	38	28	221	203	18	0.33
23-May-04	3:00:00	43	268	241	27	38	218	191	27	0.29
23-May-04	4:00:00	34	253	224	28	23	143	132	11	0.31
23-May-04	5:00:00	37	302	273	28	31	143	133	10	0.35
23-May-04	6:00:00	37	312	286	27	37	210	197	13	0.51
23-May-04	7:00:00	51	400	358	42	40	361	332	29	0.44
23-May-04	8:00:00	67	264	228	36	57	315	272	44	0.18
23-May-04	9:00:00	49	113	79	34	50	155	112	43	0.14
23-May-04	10:00:00	23	144	101	44	32	147	104	43	0.18
23-May-04	11:00:00	30	148	100	48	32	256	187	68	0.1
23-May-04	12:00:00	29	149	99	50	28	130	86	44	0.08
23-May-04	13:00:00	32	153	97	56	33	99	62	37	0.08
23-May-04	14:00:00	25	150	105	45	22	110	66	44	0.09
23-May-04	15:00:00	26	133	83	49	24	100	61	39	0.08
23-May-04	16:00:00	33	93	57	36	26	85	50	35	0.07

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-May-04	17:00:00	17	98	63	35		97	60	37	0.07
23-May-04	18:00:00	28	89	50	39	23	95	56	39	0.07
23-May-04	19:00:00	34	138	90	48	25	104	59	45	0.08
23-May-04	20:00:00	31	83	44	39	29	85	44	41	0.07
23-May-04	21:00:00	23	84	43	41	25	88	46	41	0.26
23-May-04	22:00:00	15	101	59	41	23	170	114	56	0.07
23-May-04	23:00:00	21	100	63	36	30	137	91	46	0.09
24-May-04	0:00:00	34	123	74	49	34	212	151	61	0.09
24-May-04	1:00:00	33	170	114	55	35	259	182	77	0.18
24-May-04	2:00:00	41	272	221	51	34	217	160	57	0.15
24-May-04	3:00:00	46	235	198	37	45	172	135	37	0.17
24-May-04	4:00:00	45	259	210	49	45	208	179	29	0.21
24-May-04	5:00:00	44	301	247	54	44	320	268	53	0.34
24-May-04	6:00:00	46	331	279	52	49	298	264	34	0.24
24-May-04	7:00:00	31	153	111	41	38	314	252	61	0.13
24-May-04	8:00:00	24	136	96	40	26	265	191	74	0.09
24-May-04	9:00:00	28	139	99	40	15	106	72	34	0.08
24-May-04	10:00:00	30	125	81	44	30	73	43	30	0.06
24-May-04	11:00:00	21	86	54	33	21	41	20	21	0.07
24-May-04	12:00:00	23	109	71	39	11	66	41	25	0.06
24-May-04	13:00:00	26	103	63	39	23	72	43	28	0.06
24-May-04	14:00:00	12	97	63	34	4	72	41	31	0.06
24-May-04	15:00:00	19	113	75	39	20	74	46	28	0.06
24-May-04	16:00:00	20	124	82	42	12	104	72	33	0.08
24-May-04	17:00:00	17	149	99	50	23	101	60	41	0.09
24-May-04	18:00:00	19	111	67	44	18	87	50	37	0.09
24-May-04	19:00:00	25	125	81	44	14	106	67	39	0.07
24-May-04	20:00:00	30	81	45	35	21	87	48	39	0.1
24-May-04	21:00:00	29	76	36	40	19	116	71	45	0.1
24-May-04	22:00:00	30	84	43	41	30	178	126	51	0.08
24-May-04	23:00:00	26	65	31	34	22	152	100	52	0.1
25-May-04	0:00:00	33	92	59	33	27	232	174	58	0.12
25-May-04	1:00:00	41	69	41	28	38	240	179	61	0.75
25-May-04	2:00:00	39	178	134	44	43	1136	929	207	0.83
25-May-04	3:00:00	42	242	209	33	43	1082	889	193	0.17
25-May-04	4:00:00	42	134	102	33	39	272	225	48	0.15
25-May-04	5:00:00	38	72	43	29	35	269	221	48	0.13
25-May-04	6:00:00	36	45	24	21	42	250	201	49	0.3
25-May-04	7:00:00	36	155	123	32	39	234	171	63	0.14
25-May-04	8:00:00	25	103	68	36	39	134	92	42	0.12
25-May-04	9:00:00	23	88	59	29	38	156	113	42	0.1
25-May-04	10:00:00	11	79	51	28	26	97	66	31	0.08
25-May-04	11:00:00	17	106	69	37	32	100	66	34	0.06
25-May-04	12:00:00	15	86	53	33	19	62	38	24	0.06

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-May-04	13:00:00	25	106	64	42	14	66	38	28	0.08
25-May-04	14:00:00	19	107	64	42	23	77	41	35	0.08
25-May-04	15:00:00	29	110	70	41	14	100	58	42	0.1
25-May-04	16:00:00	26	161	106	55	25	115	72	43	0.1
25-May-04	17:00:00	22	191	139	52	27	200	131	69	0.1
25-May-04	18:00:00	28	176	117	58	19	211	138	73	0.1
25-May-04	19:00:00	34	174	114	61	19	222	160	62	0.09
25-May-04	20:00:00	30	153	91	62	29	245	178	67	0.11
25-May-04	21:00:00	27	169	113	56	27	292	215	77	0.14
25-May-04	22:00:00	30	253	183	70	31	342	261	81	0.24
25-May-04	23:00:00	31	233	180	53	37	615	477	138	0.2
26-May-04	0:00:00	26	285	217	68	40	593	465	128	0.16
26-May-04	1:00:00	26	219	168	51	39	435	333	101	0.19
26-May-04	2:00:00	29	149	107	41	34	544	451	93	0.19
26-May-04	3:00:00	25	150	86	63	41	556	435	120	0.2
26-May-04	4:00:00	37	119	83	35	43	601	477	123	0.19
26-May-04	5:00:00	31	104	72	33	40	590	465	125	0.18
26-May-04	6:00:00	27	157	114	42	37	435	348	87	0.14
26-May-04	7:00:00	30	67	43	24	30	371	249	122	0.12
26-May-04	8:00:00	18	79	55	24	30	299	213	86	0.09
26-May-04	9:00:00	16	108	75	33	28	168	111	57	0.07
26-May-04	10:00:00	15	116	77	39	15	88	57	31	0.06
26-May-04	11:00:00	22	140	95	45	21	89	59	30	0.06
26-May-04	12:00:00	29	134	89	46	25	95	66	30	0.08
26-May-04	13:00:00	29	110	68	42	19	62	34	28	0.07
26-May-04	14:00:00	28	144	98	47	24	63	32	31	0.07
26-May-04	15:00:00	26	111	71	40	25	51	26	25	0.08
26-May-04	16:00:00	27	139	85	54	22	98	53	44	0.13
26-May-04	17:00:00	36	72	36	36	22	63	28	35	0.1
26-May-04	18:00:00	42	79	48	31	91	73	38	35	0.16
26-May-04	19:00:00	24	187	134	53		119	71	47	0.09
26-May-04	20:00:00	17	108	79	29	5	63	38	25	0.18
26-May-04	21:00:00		47	23	24	18	181	126	55	0.06
26-May-04	22:00:00	2	88	55	33	4	95	67	28	0.1
26-May-04	23:00:00	9	140	103	37	6	118	82	35	0.1
27-May-04	0:00:00	20	172	141	32	13	216	169	47	0.11
27-May-04	1:00:00	31	233	183	50	20	119	84	35	0.13
27-May-04	2:00:00	28	349	275	75	16	105	79	26	0.12
27-May-04	3:00:00	28	187	145	42	15	108	74	34	0.3
27-May-04	4:00:00	11	113	82	31	14	290	201	90	0.13
27-May-04	5:00:00	19	212	164	47	25	204	152	51	0.11
27-May-04	6:00:00	59	570	434	136	13	257	181	75	0.14
27-May-04	7:00:00	34	405	314	92	19	190	133	57	0.09
27-May-04	8:00:00	9	242	194	48	7	67	30	37	0.22

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-May-04	9:00:00	7	53	37	17	5	34	24	9	0.14
27-May-04	10:00:00	13	127	90	37	18	125	94	31	0.11
27-May-04	11:00:00	18	130	67	63	15	82	44	38	0.08
27-May-04	12:00:00	26	340	105	234	18	95	64	31	0.07
27-May-04	13:00:00	13	169	65	104	20	93	39	54	0.07
27-May-04	14:00:00	27	128	87	41	18	77	40	36	0.06
27-May-04	15:00:00	19	136	87	49	18	62	32	30	0.07
27-May-04	16:00:00	26	150	96	54	19	76	42	34	0.09
27-May-04	17:00:00	21	154	99	54	20	114	64	50	0.12
27-May-04	18:00:00	29	169	115	54	27	186	126	60	0.08
27-May-04	19:00:00	24	145	95	50	24	88	47	40	0.08
27-May-04	20:00:00	25	96	52	44	28	79	41	39	0.09
27-May-04	21:00:00	25	36	15	21	21	101	63	39	0.1
27-May-04	22:00:00	27	45	19	26	29	252	181	71	0.12
27-May-04	23:00:00	22	108	57	51	36	292	207	85	0.12
28-May-04	0:00:00	32	210	146	64	33	331	256	74	0.1
28-May-04	1:00:00	36	154	99	56	33	228	160	68	0.06
28-May-04	2:00:00	23	59	31	29	34	123	81	42	0.08
28-May-04	3:00:00	25	81	46	34	22	197	136	61	0.09
28-May-04	4:00:00	20	84	51	33	27	244	182	63	0.07
28-May-04	5:00:00	19	83	52	31	20	136	95	41	0.07
28-May-04	6:00:00	41	151	102	49	33	102	68	35	0.11
28-May-04	7:00:00	24	207	152	55	32	146	108	39	0.11
28-May-04	8:00:00	19	70	40	30	15	92	62	30	0.06
28-May-04	9:00:00	11	39	22	17	11	14	5	9	0.1
28-May-04	10:00:00	15	100	68	32	13	75	47	28	0.08
28-May-04	11:00:00	5	66	38	28	7	41	25	16	0.07
28-May-04	12:00:00	10	41	22	19	7	25	13	12	0.07
28-May-04	13:00:00	10	58	36	23	13	27	15	13	0.07
28-May-04	14:00:00	7	75	47	28	2	37	22	15	0.07
28-May-04	15:00:00	14	85	53	32	19	53	33	20	0.07
28-May-04	16:00:00	17	88	55	33	12	43	25	18	0.07
28-May-04	17:00:00	4	108	72	35	5	81	54	28	0.09
28-May-04	18:00:00	21	96	65	32	19	75	47	28	0.08
28-May-04	19:00:00	22	88	56	32	19	77	47	30	0.07
28-May-04	20:00:00	14	38	21	17	10	29	15	14	0.1
28-May-04	21:00:00	17	38	22	16	16	56	35	21	0.12
28-May-04	22:00:00	20	41	23	18	15	71	45	26	0.1
28-May-04	23:00:00	9	38	22	16	14	36	23	14	0.1
29-May-04	0:00:00	16	37	21	16	14	34	22	12	0.1
29-May-04	1:00:00	31	123	95	28	32	121	97	24	0.11
29-May-04	2:00:00	37	157	123	34	37	145	116	29	0.13
29-May-04	3:00:00	30	128	102	26	37	220	161	59	0.15
29-May-04	4:00:00	26	91	68	23	34	166	122	44	0.09

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-May-04	5:00:00	21	74	51	22	24	60	41	18	0.1
29-May-04	6:00:00	22	45	24	21	20	77	51	26	0.12
29-May-04	7:00:00	17	54	41	13	19	133	96	38	0.11
29-May-04	8:00:00	12	25	15	10	28	84	61	23	0.07
29-May-04	9:00:00	3	96	72	24	4	3	1	2	0.12
29-May-04	10:00:00	4	53	32	21	1	61	37	24	0.09
29-May-04	11:00:00	11	44	21	23	10	57	32	25	0.08
29-May-04	12:00:00	21	67	39	29	16	59	35	25	0.05
29-May-04	13:00:00	12	71	41	30	16	18	7	11	0.06
29-May-04	14:00:00	23	57	33	24	18	29	17	13	0.06
29-May-04	15:00:00	23	76	45	30	22	34	16	17	0.06
29-May-04	16:00:00	21	85	51	34	16	56	33	23	0.07
29-May-04	17:00:00	32	119	76	43	27	63	33	30	0.08
29-May-04	18:00:00	16	89	51	39	21	63	34	29	0.09
29-May-04	19:00:00	30	106	61	45	22	79	41	37	0.12
29-May-04	20:00:00	24	18	4	14	28	43	19	25	0.13
29-May-04	21:00:00	24	50	24	27	21	51	23	28	0.14
29-May-04	22:00:00	36	74	40	34	37	125	83	42	0.17
29-May-04	23:00:00	36	136	93	43	33	248	180	68	0.17
30-May-04	0:00:00	30	76	45	31	44	316	237	78	0.15
30-May-04	1:00:00	41	68	42	26	47	128	87	41	0.16
30-May-04	2:00:00	41	143	111	31	42	142	83	59	0.26
30-May-04	3:00:00	42	205	162	42	37	222	162	60	0.16
30-May-04	4:00:00	43	219	185	34	39	119	85	34	0.18
30-May-04	5:00:00	29	171	142	29	31	128	111	17	0.28
30-May-04	6:00:00	36	217	191	26	30	210	163	47	0.24
30-May-04	7:00:00	30	56	39	17	50	258	195	63	0.14
30-May-04	8:00:00	28	40	25	15	37	240	187	53	0.1
30-May-04	9:00:00	5	63	43	20	11	147	106	40	0.07
30-May-04	10:00:00		68	46	22	7	97	66	31	0.07
30-May-04	11:00:00	19	99	65	34	5	72	47	25	0.07
30-May-04	12:00:00	24	117	86	31	22	71	46	25	0.08
30-May-04	13:00:00	24	87	60	27	22	82	59	23	0.08
30-May-04	14:00:00	18	49	29	20	26	52	33	19	0.1
30-May-04	15:00:00	32	66	44	23	25	101	66	35	0.11
30-May-04	16:00:00	26	117	82	35	27	181	142	39	0.12
30-May-04	17:00:00	24	112	73	40	27	267	188	79	0.15
30-May-04	18:00:00	29	101	67	34	34	313	225	88	0.15
30-May-04	19:00:00	32	115	76	40	32	449	350	100	0.16
30-May-04	20:00:00	43	51	28	23	54	663	477	187	0.15
30-May-04	21:00:00	29	58	32	26	42	747	497	250	0.15
30-May-04	22:00:00	22	53	32	21	45	704	504	200	0.48
30-May-04	23:00:00	37	88	64	24	37	485	357	127	0.3
31-May-04	0:00:00	19	132	99	34	27	640	468	172	0.16

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
31-May-04	1:00:00	26	131	98	33	38	644	469	175	0.15
31-May-04	2:00:00	27	156	124	32	39	645	503	142	0.14
31-May-04	3:00:00	37	125	93	32	51	402	316	85	0.06
31-May-04	4:00:00	8	147	93	55	10	146	102	44	0.15
31-May-04	5:00:00	9	52	29	23	29	539	377	161	0.12
31-May-04	6:00:00	7	57	33	24	19	766	557	209	0.14
31-May-04	7:00:00	16	153	114	39	23	457	359	98	0.15
31-May-04	8:00:00	8	85	57	28	24	417	311	106	0.26
31-May-04	9:00:00	11	112	80	32	23	533	371	162	0.13
31-May-04	10:00:00	4	62	39	23	11	270	186	84	0.1
31-May-04	11:00:00	10	80	48	31	3	175	122	53	0.07
31-May-04	12:00:00	9	99	61	37	10	111	74	36	0.08
31-May-04	13:00:00	22	121	84	36	20	116	83	33	0.1
31-May-04	14:00:00	2	94	63	30	9	164	116	48	0.09
31-May-04	15:00:00	12	122	78	44	2	156	106	49	0.09
31-May-04	16:00:00	4	137	98	39	11	211	157	53	0.07
31-May-04	17:00:00	13	149	106	43	6	182	124	58	0.07
31-May-04	18:00:00	16	156	111	45	4	195	136	59	0.05
31-May-04	19:00:00	18	152	105	48	7	126	77	49	0.21
31-May-04	20:00:00	18	85	58	27	19	187	150	37	0.16
31-May-04	21:00:00	20	200	165	34	17	136	110	26	0.16
31-May-04	22:00:00	23	62	38	24	25	142	103	39	0.08
31-May-04	23:00:00	23	44	22	21	26	113	76	38	0.1
1-Jun-04	0:00:00	23	65	38	27	20	133	86	47	0.1
1-Jun-04	1:00:00	26	94	64	31	27	124	85	39	0.12
1-Jun-04	2:00:00	21	103	71	32	24	141	93	47	0.13
1-Jun-04	3:00:00	23	147	103	44	28	206	151	55	0.1
1-Jun-04	4:00:00	22	123	87	35	28	107	73	34	0.07
1-Jun-04	5:00:00	34	115	73	42	17	59	36	23	0.08
1-Jun-04	6:00:00	20	44	24	19	25	87	61	27	0.11
1-Jun-04	7:00:00	20	79	54	25	26	128	92	36	0.14
1-Jun-04	8:00:00	17	107	76	31	17	187	129	58	0.14
1-Jun-04	9:00:00	10	62	37	25	11	218	153	65	0.1
1-Jun-04	10:00:00	9	41	23	18	14	112	74	38	0.11
1-Jun-04	11:00:00	18	63	38	25	16	98	57	41	0.08
1-Jun-04	12:00:00	14	51	25	25	13	90	53	38	0.08
1-Jun-04	13:00:00	11	116	65	51	9	88	48	41	0.06
1-Jun-04	14:00:00	11	81	48	33	9	81	37	43	0.04
1-Jun-04	15:00:00	6				10	77	46	31	0.06
1-Jun-04	16:00:00	10	112	62	50	13	88	54	34	0.06
1-Jun-04	17:00:00	15	160	103	57	11	115	71	44	0.06
1-Jun-04	18:00:00	14	101	59	42	15	96	60	36	0.05
1-Jun-04	19:00:00	15	65	34	32	11	34	13	21	0.05
1-Jun-04	20:00:00	17	23	9	15	12	62	36	26	0.05

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-Jun-04	21:00:00	13	43	23	20	6	35	16	19	0.07
1-Jun-04	22:00:00	22	87	48	40	16	45	20	25	0.17
1-Jun-04	23:00:00	15	107	61	46	24	247	187	60	0.17
2-Jun-04	0:00:00	33	252	194	59	33	215	161	54	0.17
2-Jun-04	1:00:00	35	372	308	65	34	237	176	61	0.26
2-Jun-04	2:00:00	39	467	391	76	29	531	442	90	0.2
2-Jun-04	3:00:00	37	483	422	61	33	262	213	49	0.15
2-Jun-04	4:00:00	44	459	399	61	32	205	174	31	0.2
2-Jun-04	5:00:00	42	342	300	42	37	399	339	60	0.3
2-Jun-04	6:00:00	39	440	408	33	44	415	374	42	0.45
2-Jun-04	7:00:00	52	991	810	181	31	267	241	25	0.27
2-Jun-04	8:00:00	59	658	486	172	23	172	132	40	0.13
2-Jun-04	9:00:00	30	50	29	21	23	82	55	27	0.09
2-Jun-04	10:00:00	25	78	49	29	28	49	29	20	0.07
2-Jun-04	11:00:00	24	38	21	17	22	25	11	14	0.07
2-Jun-04	12:00:00	27	103	64	39	26	52	27	25	0.06
2-Jun-04	13:00:00	33	90	52	38	28	40	17	23	0.08
2-Jun-04	14:00:00	24	121	69	52	29	120	64	56	0.07
2-Jun-04	15:00:00	27	123	76	48	28	55	27	28	0.07
2-Jun-04	16:00:00	26	127	77	50	21	66	29	37	1.18
2-Jun-04	17:00:00	39	258	177	81	21	128	70	59	0.11
2-Jun-04	18:00:00	36	283	177	105	40	235	149	86	0.18
2-Jun-04	19:00:00	30	182	91	92	32	295	181	115	0.05
2-Jun-04	20:00:00	15	540	351	189	22	31	11	19	0.07
2-Jun-04	21:00:00	21	183	124	59	14	52	18	34	0.08
2-Jun-04	22:00:00	25	256	191	64	21	151	94	57	0.12
2-Jun-04	23:00:00	31	256	198	58	27	245	173	72	0.1
3-Jun-04	0:00:00	23	137	92	45	35	146	96	50	0.1
3-Jun-04	1:00:00	27	136	97	39	31	183	119	64	0.08
3-Jun-04	2:00:00	30	145	98	48	32	186	114	72	0.09
3-Jun-04	3:00:00	28	176	130	46	35	207	122	86	0.07
3-Jun-04	4:00:00	29	198	138	61	34	167	109	58	0.08
3-Jun-04	5:00:00	16	237	171	66	25	154	100	53	0.08
3-Jun-04	6:00:00	34	233	161	72	26	99	59	40	0.2
3-Jun-04	7:00:00	21	129	91	38	23	84	44	39	0.13
3-Jun-04	8:00:00	11	144	103	42	8	67	33	34	0.15
3-Jun-04	9:00:00	12	89	58	31	19	112	75	37	0.11
3-Jun-04	10:00:00	20	53	27	26	31	63	34	29	0.12
3-Jun-04	11:00:00	23	66	39	26	20	42	22	20	0.11
3-Jun-04	12:00:00	29	33	13	20	30	22	8	14	0.12
3-Jun-04	13:00:00	24	26	11	15	17	9	1	8	0.08
3-Jun-04	14:00:00	28	104	59	46	23	26	9	16	0.13
3-Jun-04	15:00:00	44				37	60	28	32	0.1
3-Jun-04	16:00:00	50				45	65	32	33	0.09

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-Jun-04	17:00:00	45				28	62	30	33	0.1
3-Jun-04	18:00:00	50				38	44	18	25	0.1
3-Jun-04	19:00:00	44				29	18	2	16	0.09
3-Jun-04	20:00:00	38				22	70	28	42	0.12
3-Jun-04	21:00:00	22				34	105	65	39	0.28
3-Jun-04	22:00:00	21	47	21	27	29	220	127	93	0.42
3-Jun-04	23:00:00	18	180	128	52	26	343	211	132	0.3
4-Jun-04	0:00:00	32	348	273	76	23	202	116	86	0.24
4-Jun-04	1:00:00	32	535	332	203	24	185	115	70	0.15
4-Jun-04	2:00:00	35	323	256	67	17	133	75	59	0.21
4-Jun-04	3:00:00	29	354	264	90	27	134	79	55	0.19
4-Jun-04	4:00:00	30	245	184	62	22	105	68	37	0.1
4-Jun-04	5:00:00	16	269	196	74	13	74	44	30	0.09
4-Jun-04	6:00:00	32	455	311	145	16	36	13	23	0.12
4-Jun-04	7:00:00	26	365	265	101	12	50	22	28	0.09
4-Jun-04	8:00:00	3	35	12	23	17	131	84	47	0.15
4-Jun-04	9:00:00		35	17	18		117	70	48	0.06
4-Jun-04	10:00:00		142	93	48	3	14	2	12	0.1
4-Jun-04	11:00:00	17	298	201	97	6	44	16	28	0.07
4-Jun-04	12:00:00	10	204	112	92	8	50	29	20	0.05
4-Jun-04	13:00:00	16	229	134	96	1	80	43	37	0.05
4-Jun-04	14:00:00	6	389	218	171	6	48	10	38	0.04
4-Jun-04	15:00:00	8	353	174	179	7	43	9	34	0.05
4-Jun-04	16:00:00	15	368	232	136		8	3	4	0.04
4-Jun-04	17:00:00	16	399	239	160	5	9	1	8	0.06
4-Jun-04	18:00:00	21	217	150	67	18	60	28	32	0.06
4-Jun-04	19:00:00	22	96	53	43	7	26	7	18	0.06
4-Jun-04	20:00:00	18	204	133	71	15	34	10	24	0.07
4-Jun-04	21:00:00	18	110	62	49	22	67	29	38	0.07
4-Jun-04	22:00:00	22	118	72	46	16	73	33	40	0.06
4-Jun-04	23:00:00	18	147	90	56	15	24	8	16	0.07
5-Jun-04	0:00:00	24	150	100	50	16	24	12	11	0.07
5-Jun-04	1:00:00	21	108	71	38	16	58	32	26	0.07
5-Jun-04	2:00:00	26	196	139	57	15	38	16	22	0.07
5-Jun-04	3:00:00	21	150	102	48	21	78	40	37	0.11
5-Jun-04	4:00:00	26	138	101	37	23	92	59	32	0.15
5-Jun-04	5:00:00	24	146	118	28	22	197	157	40	0.16
5-Jun-04	6:00:00	32	291	241	50	26	270	218	53	0.27
5-Jun-04	7:00:00	36	411	352	59	27	280	227	54	0.12
5-Jun-04	8:00:00	11	128	85	43	13	133	90	44	0.07
5-Jun-04	9:00:00	19	100	63	37	18	56	32	25	0.06
5-Jun-04	10:00:00	13	93	58	34	10	29	16	14	0.14
5-Jun-04	11:00:00	16	137	86	51	19	48	24	24	0.04
5-Jun-04	12:00:00	26	63	31	32	13	15	4	11	0.04



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-Jun-04	13:00:00	23	57	31	26	21	19	8	11	0.04
5-Jun-04	14:00:00	17	81	42	38	24	10	2	8	0.04
5-Jun-04	15:00:00	25	97	46	51	12				0.04
5-Jun-04	16:00:00	20	187	102	85	12	19	8	11	0.05
5-Jun-04	17:00:00	28	67	32	35	16	34	14	20	0.05
5-Jun-04	18:00:00	23	150	88	63	21	13	3	10	0.06
5-Jun-04	19:00:00	23	152	96	56	23	62	29	33	0.09
5-Jun-04	20:00:00	29	205	137	68	22	95	41	54	0.1
5-Jun-04	21:00:00	37	352	253	99	21	105	47	58	0.13
5-Jun-04	22:00:00	28	205	144	61	24	174	104	70	0.11
5-Jun-04	23:00:00	28	229	166	63	18	131	76	55	0.15
6-Jun-04	0:00:00	37	323	270	53	28	220	167	53	0.18
6-Jun-04	1:00:00	32	267	218	48	25	157	105	52	0.14
6-Jun-04	2:00:00	33	181	132	48	23	108	53	54	0.14
6-Jun-04	3:00:00	32	177	129	48	26	271	165	105	0.11
6-Jun-04	4:00:00	29	159	115	44	22	107	48	59	0.11
6-Jun-04	5:00:00	27	158	117	41	23	71	43	27	0.98
6-Jun-04	6:00:00	33	145	105	40	50	580	406	174	0.11
6-Jun-04	7:00:00	35	166	121	46	27	68	44	24	0.11
6-Jun-04	8:00:00	33	343	254	89	26	73	42	31	0.09
6-Jun-04	9:00:00	35	215	155	60	20	65	37	28	0.09
6-Jun-04	10:00:00	28	115	76	39	14	52	29	23	0.08
6-Jun-04	11:00:00	26	106	66	40	21	36	15	20	0.09
6-Jun-04	12:00:00	28	80	42	38	19	75	38	38	0.1
6-Jun-04	13:00:00	24	80	36	44	30	80	44	36	0.11
6-Jun-04	14:00:00	35	105	36	69	26	51	15	36	0.1
6-Jun-04	15:00:00	29	77	31	46	26	48	15	33	0.09
6-Jun-04	16:00:00	24	61	23	39	27	29	8	21	0.09
6-Jun-04	17:00:00	34	28	7	21	30	27	7	20	0.08
6-Jun-04	18:00:00	41	57	25	33	29	36	10	26	0.1
6-Jun-04	19:00:00	32	51	17	34	48	89	47	42	0.11
6-Jun-04	20:00:00	40	135	71	64	41	90	40	51	0.18
6-Jun-04	21:00:00	41	146	88	59	47	72	29	43	0.16
6-Jun-04	22:00:00	46	192	130	62	34	140	81	59	0.21
6-Jun-04	23:00:00	40	197	140	57	42	178	106	72	0.24
7-Jun-04	0:00:00	40	337	261	75	43	453	327	126	0.25
7-Jun-04	1:00:00	49	680	542	138	44	350	249	101	0.22
7-Jun-04	2:00:00	49	565	438	127	44	320	211	109	0.31
7-Jun-04	3:00:00	41	451	364	87	37	408	278	130	0.17
7-Jun-04	4:00:00	41	416	308	108	39	334	226	108	0.13
7-Jun-04	5:00:00	56	651	469	183	36	87	56	32	0.15
7-Jun-04	6:00:00	49	343	254	88	33	39	18	21	0.2
7-Jun-04	7:00:00	42	186	138	48	28	31	13	18	0.18
7-Jun-04	8:00:00	51	180	122	58	23	30	13	17	0.18

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
7-Jun-04	9:00:00	34	298	196	102	28	63	38	25	0.16
7-Jun-04	10:00:00	51	224	159	65	31	37	19	17	0.16
7-Jun-04	11:00:00	46	186	129	57	30	28	12	16	0.22
7-Jun-04	12:00:00	45	196	148	48		41	23	18	0.17
7-Jun-04	13:00:00	37	126	71	55	29	18	3	15	0.2
7-Jun-04	14:00:00	47	60	27	33	37	31	8	23	0.13
7-Jun-04	15:00:00	48	24	6	18	51				0.13
7-Jun-04	16:00:00	45	42	18	24	41				0.14
7-Jun-04	17:00:00	41	508	385	123	42	28	7	22	0.15
7-Jun-04	18:00:00	53	857	628	228	50	34	11	22	0.15
7-Jun-04	19:00:00	50	623	442	181	56	43	14	29	0.17
7-Jun-04	20:00:00	61	659	491	168	55	129	59	70	0.21
7-Jun-04	21:00:00	73	589	430	159	57	87	38	49	0.2
7-Jun-04	22:00:00	77	436	317	119	58	129	63	66	0.24
7-Jun-04	23:00:00	68	511	397	114	64	130	77	53	0.24
8-Jun-04	0:00:00	78	360	291	68	76	116	64	52	0.26
8-Jun-04	1:00:00	88	491	394	97	70	166	99	67	0.31
8-Jun-04	2:00:00	65	282	231	50	56	167	116	51	0.26
8-Jun-04	3:00:00	63	302	258	44	71	364	272	92	0.33
8-Jun-04	4:00:00	60	269	236	33	63	326	239	86	0.33
8-Jun-04	5:00:00	60	308	246	61	84	438	356	82	0.3
8-Jun-04	6:00:00	67	318	257	61	70	201	149	52	0.29
8-Jun-04	7:00:00	78	226	174	52	67	134	101	32	0.23
8-Jun-04	8:00:00	64	213	166	47	59	88	64	24	0.25
8-Jun-04	9:00:00	67	243	194	49	52	114	76	38	0.15
8-Jun-04	10:00:00	49	123	81	42	40	21	8	13	0.15
8-Jun-04	11:00:00	27	155	101	54	12	19	6	13	0.18
8-Jun-04	12:00:00	36	57	23	34	33	23	5	18	0.2
8-Jun-04	13:00:00	34	62	27	35	33	36	14	22	0.16
8-Jun-04	14:00:00	33	177	121	56	33	23	7	17	0.14
8-Jun-04	15:00:00	48	118	71	46	37	29	9	20	0.15
8-Jun-04	16:00:00	34	59	24	36	22	64	30	34	0.13
8-Jun-04	17:00:00	45	92	43	48		19	1	18	0.16
8-Jun-04	18:00:00	52	77	31	46	47	28	5	23	0.14
8-Jun-04	19:00:00	34	66	25	42	29				0.1
8-Jun-04	20:00:00	40	58	23	35	33				0.13
8-Jun-04	21:00:00	39	148	97	51	33	131	84	47	0.16
8-Jun-04	22:00:00	32	195	144	52	35	99	65	34	0.21
8-Jun-04	23:00:00	40	269	226	43	31	154	118	36	0.23
9-Jun-04	0:00:00	43	442	368	74	39	154	125	29	0.25
9-Jun-04	1:00:00	39	160	122	37	43	205	177	28	0.21
9-Jun-04	2:00:00	31	161	116	45	45	262	197	65	0.14
9-Jun-04	3:00:00	36	173	142	31	34	112	92	20	0.12
9-Jun-04	4:00:00	68	287	227	61	29	96	77	19	0.13

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
9-Jun-04	5:00:00	34	225	193	32	29	86	72	14	0.18
9-Jun-04	6:00:00	75	310	274	36	29	103	86	17	0.46
9-Jun-04	7:00:00	36	490	405	85	28	144	136	7	0.23
9-Jun-04	8:00:00	91	143	110	33	13	90	71	19	0.09
9-Jun-04	9:00:00	16	63	37	27	8	59	34	25	0.08
9-Jun-04	10:00:00	22	51	29	23	8	36	17	18	0.08
9-Jun-04	11:00:00	24	78	47	31	14	39	21	18	0.16
9-Jun-04	12:00:00	25	110	68	41	18	62	34	28	0.07
9-Jun-04	13:00:00	21	84	47	37	13	34	14	20	0.08
9-Jun-04	14:00:00	15	79	39	40	14	17	2	15	0.12
9-Jun-04	15:00:00	51	152	86	66	19	162	88	73	0.12
9-Jun-04	16:00:00	24	149	87	62	28	60	29	30	0.11
9-Jun-04	17:00:00	20	186	120	66	15	40	15	25	0.14
9-Jun-04	18:00:00	30	183	119	64	22	161	88	73	0.13
9-Jun-04	19:00:00	36	271	191	80	28	124	81	43	0.16
9-Jun-04	20:00:00	34	213	150	63	35	102	52	50	0.32
9-Jun-04	21:00:00	47	411	343	69	34	204	160	44	0.29
9-Jun-04	22:00:00	49	648	528	120	37	231	185	46	0.42
9-Jun-04	23:00:00	36	602	474	128	34	279	231	48	0.35
10-Jun-04	0:00:00	28	322	270	51	32	251	218	34	0.19
10-Jun-04	1:00:00	20	148	111	37	23	277	207	70	0.2
10-Jun-04	2:00:00	16	148	105	43	32	272	198	74	0.18
10-Jun-04	3:00:00	24	205	161	44	23	193	156	38	1.04
10-Jun-04	4:00:00	19	169	134	35	39	539	382	157	0.72
10-Jun-04	5:00:00	25	248	200	48	29	491	337	155	0.48
10-Jun-04	6:00:00	33	326	284	42	43	358	284	74	0.31
10-Jun-04	7:00:00	23	237	206	32	23	172	151	21	0.14
10-Jun-04	8:00:00	15	101	72	28	16	192	132	60	0.15
10-Jun-04	9:00:00	19	135	100	36	20	222	166	56	0.09
10-Jun-04	10:00:00	23	126	84	42	23	171	117	54	0.06
10-Jun-04	11:00:00	23	82	52	30	16	56	33	23	0.06
10-Jun-04	12:00:00	25	80	47	33	25	51	28	23	0.06
10-Jun-04	13:00:00	29	104	63	40	20	27	11	16	0.07
10-Jun-04	14:00:00	22	57	30	27	18	40	22	19	0.08
10-Jun-04	15:00:00	32	77	30	47	24	16	5	11	0.1
10-Jun-04	16:00:00	49	145	85	60	47	111	57	54	0.12
10-Jun-04	17:00:00	36	137	84	53	41	105	56	49	0.09
10-Jun-04	18:00:00	35	157	87	70	28	20	4	16	0.1
10-Jun-04	19:00:00	33	288	192	96	33	59	20	39	0.1
10-Jun-04	20:00:00	44	577	418	159	48	80	46	34	0.19
10-Jun-04	21:00:00	38	245	187	59	41	136	96	40	0.17
10-Jun-04	22:00:00	48	233	190	44	38	89	61	28	0.18
10-Jun-04	23:00:00	45	244	204	41	41	87	63	24	0.18
11-Jun-04	0:00:00	48	286	240	45	39	207	157	49	0.25

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
11-Jun-04	1:00:00	54	242	213	29	55	162	138	24	0.21
11-Jun-04	2:00:00	53	239	210	28	49	189	169	20	0.21
11-Jun-04	3:00:00	52	260	230	30	41	164	150	15	0.23
11-Jun-04	4:00:00	42	366	317	49	40	143	133	10	0.23
11-Jun-04	5:00:00	47	313	272	42	31	157	149	8	0.4
11-Jun-04	6:00:00	52	468	398	71	41	250	238	12	0.6
11-Jun-04	7:00:00	57	482	414	68	44	275	252	23	0.3
11-Jun-04	8:00:00	45	98	74	23	42	139	120	19	0.16
11-Jun-04	9:00:00	29	71	43	28	36	213	134	79	0.16
11-Jun-04	10:00:00	51	93	54	39	46	203	133	70	0.11
11-Jun-04	11:00:00	37	81	46	35	43	88	48	40	0.1
11-Jun-04	12:00:00	50	107	62	45	41	69	31	37	0.09
11-Jun-04	13:00:00	46	82	43	39	42	35	15	20	0.09
11-Jun-04	14:00:00	32	93	55	38	32	35	15	20	0.09
11-Jun-04	15:00:00	48	137	83	54	33	33	15	18	0.1
11-Jun-04	16:00:00	48	82	33	49	35	23	6	17	0.09
11-Jun-04	17:00:00	50	75	38	37	36	30	6	25	0.11
11-Jun-04	18:00:00		72	35	37	48	33	12	21	0.13
11-Jun-04	19:00:00	36	96	54	42	35	62	32	31	0.2
11-Jun-04	20:00:00	47	241	176	65	46	142	96	46	0.25
11-Jun-04	21:00:00	45	296	237	60	41	201	149	52	0.35
11-Jun-04	22:00:00	49	308	265	43	56	249	200	49	0.35
11-Jun-04	23:00:00	43	325	282	42	46	307	241	67	0.33
12-Jun-04	0:00:00	47	322	283	39	38	279	232	48	0.32
12-Jun-04	1:00:00	54	311	277	34	48	217	182	35	0.28
12-Jun-04	2:00:00	58	285	255	30	49	228	198	30	0.28
12-Jun-04	3:00:00	47	281	255	26	54	244	210	33	0.32
12-Jun-04	4:00:00	48	262	227	35	45	264	231	33	0.24
12-Jun-04	5:00:00	46	304	271	33		221	195	26	0.19
12-Jun-04	6:00:00	52	300	265	35	49	151	133	18	0.31
12-Jun-04	7:00:00	49	252	224	27	42	134	119	15	0.18
12-Jun-04	8:00:00	40	259	208	51	35	105	81	24	0.15
12-Jun-04	9:00:00	30	100	67	33	34	106	76	30	0.07
12-Jun-04	10:00:00	22	177	123	53	21	39	18	21	0.05
12-Jun-04	11:00:00	23	182	114	68	12	25	10	15	0.04
12-Jun-04	12:00:00	22	53	31	21	18	6	0	6	0.04
12-Jun-04	13:00:00	19	145	92	53	10	40	25	16	0.05
12-Jun-04	14:00:00	21	95	57	38	18	72	42	30	0.06
12-Jun-04	15:00:00	27	314	229	85	20				0.07
12-Jun-04	16:00:00	30	174	113	61	14	7	1	5	0.04
12-Jun-04	17:00:00	30	108	56	51	27	54	30	23	0.02
12-Jun-04	18:00:00	8	142	95	47	7	11	5	6	0.06
12-Jun-04	19:00:00	10	154	101	53	16	88	58	30	0.08
12-Jun-04	20:00:00	34	883	708	175	16	252	173	78	0.08

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Jun-04	21:00:00	10	93	60	33	36	508	336	172	0.09
12-Jun-04	22:00:00	20	1085	904	181	36	480	339	141	0.01
12-Jun-04	23:00:00	15	333	268	65	48	483	366	117	0.11
13-Jun-04	0:00:00	22	1335	1048	288	25	423	324	99	0.11
13-Jun-04	1:00:00	26	758	666	92	34	288	218	70	0.11
13-Jun-04	2:00:00	13	360	303	58	26	318	247	72	0.13
13-Jun-04	3:00:00	31	2387	2173	214	35	342	270	72	0.13
13-Jun-04	4:00:00	48	2583	2349	234	41	457	320	137	0.15
13-Jun-04	5:00:00	29	1335	1136	199	47	429	347	81	0.15
13-Jun-04	6:00:00	26	1655	1432	223	37	418	321	97	0.21
13-Jun-04	7:00:00	49	2309	2100	209	54	437	356	81	0.11
13-Jun-04	8:00:00	12	455	360	95	22	273	206	67	0.09
13-Jun-04	9:00:00	20	257	180	77	17	340	236	104	0.09
13-Jun-04	10:00:00	24	192	138	55	23	248	165	83	0.1
13-Jun-04	11:00:00	25	100	68	32	32	238	161	77	0.1
13-Jun-04	12:00:00	25	131	87	45	26	263	168	95	0.09
13-Jun-04	13:00:00	27	150	99	52	32	210	139	71	0.09
13-Jun-04	14:00:00	25	139	90	49	28	144	89	55	0.1
13-Jun-04	15:00:00	32	113	71	42	37	122	71	50	0.1
13-Jun-04	16:00:00	23	50	29	21	23	117	64	53	0.11
13-Jun-04	17:00:00	23	100	63	37	24	181	114	67	0.12
13-Jun-04	18:00:00	23	73	43	29	27	216	139	77	0.11
13-Jun-04	19:00:00	33	87	56	31	43	167	112	55	0.11
13-Jun-04	20:00:00	29	83	52	31	32	159	110	50	0.09
13-Jun-04	21:00:00	31	102	62	40	37	190	126	64	0.09
13-Jun-04	22:00:00	30	104	63	41	36	195	133	62	0.09
13-Jun-04	23:00:00	25	82	49	33	29	160	108	52	0.09
14-Jun-04	0:00:00	20	129	88	41	28	180	126	54	0.09
14-Jun-04	1:00:00	26	175	129	46	33	160	115	45	0.08
14-Jun-04	2:00:00	33	161	115	46	23	172	127	45	0.07
14-Jun-04	3:00:00	29	120	79	41	28	84	47	37	0.06
14-Jun-04	4:00:00	31	122	84	38	24	52	25	26	0.08
14-Jun-04	5:00:00	34	162	123	38	30	48	23	25	0.07
14-Jun-04	6:00:00	35	117	80	37	27	35	12	23	0.09
14-Jun-04	7:00:00	22	50	24	26	32	15	0	14	0.09
14-Jun-04	8:00:00	33	29	12	17	53	19	8	11	0.07
14-Jun-04	9:00:00	24	13	3	10	13	6	2	5	0.06
14-Jun-04	10:00:00		6	1	5					0.09
14-Jun-04	11:00:00	13	25	12	13	3				0.05
14-Jun-04	12:00:00	18	33	16	17	14	13	4	10	0.05
14-Jun-04	13:00:00	24	59	33	26	13	27	13	14	0.06
14-Jun-04	14:00:00	10	61	39	21	15	41	25	17	0.06
14-Jun-04	15:00:00	13	81	52	29	15	44	26	18	0.07
14-Jun-04	16:00:00	13	139	103	36	18	75	51	24	0.09

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Jun-04	17:00:00	23	94	60	34	19	85	61	24	0.09
14-Jun-04	18:00:00	23	125	88	37	15	76	47	29	0.07
14-Jun-04	19:00:00	14	66	40	26	16	46	26	20	0.18
14-Jun-04	20:00:00	42	730	557	173	47	223	152	72	0.14
14-Jun-04	21:00:00	25	194	144	50	14	123	85	38	0.08
14-Jun-04	22:00:00	46	158	99	59	123	80	41	39	0.12
14-Jun-04	23:00:00	28	174	132	41	35	116	77	40	0.12
15-Jun-04	0:00:00	42	313	256	57	2	309	219	90	0.15
15-Jun-04	1:00:00	36	204	151	53	45	276	198	78	0.12
15-Jun-04	2:00:00	18	96	62	34	18	152	92	61	0.06
15-Jun-04	3:00:00	21	131	97	34	22	89	49	40	0.07
15-Jun-04	4:00:00	24	265	206	59	26	127	82	45	0.09
15-Jun-04	5:00:00	28	167	131	36	21	131	88	43	0.06
15-Jun-04	6:00:00	20	73	54	19	13	65	46	19	0.06
15-Jun-04	7:00:00	21	87	62	24	26	39	27	12	0.07
15-Jun-04	8:00:00	14	91	66	26	9	82	64	18	0.07
15-Jun-04	9:00:00	14	61	39	21		37	23	13	0.04
15-Jun-04	10:00:00		87	63	25	17	12	7	5	0.04
15-Jun-04	11:00:00		39	19	20		27	12	15	0.07
15-Jun-04	12:00:00	15	38	16	22	13	26	19	8	0.06
15-Jun-04	13:00:00	4	30	16	14	8	83	67	16	0.04
15-Jun-04	14:00:00	10	77	27	50	8	37	15	22	0.07
15-Jun-04	15:00:00	22	286	235	51	17	90	46	44	0.06
15-Jun-04	16:00:00	22	419	362	57	12	98	91	8	0.06
15-Jun-04	17:00:00	25	486	340	145	9	103	45	58	0.11
15-Jun-04	18:00:00	42	68	44	24	24				0.11
15-Jun-04	19:00:00	26	260	207	53	61	39	25	14	0.09
15-Jun-04	20:00:00	14	325	264	61	7	92	64	28	0.09
15-Jun-04	21:00:00	20	181	141	40	5	63	43	20	0.1
15-Jun-04	22:00:00	13	150	120	30	7	102	81	21	0.1
15-Jun-04	23:00:00	23	122	100	22	14	90	67	23	0.1
16-Jun-04	0:00:00	22	136	108	28	25	321	270	51	0.15
16-Jun-04	1:00:00	29	119	96	23	30	191	158	33	0.14
16-Jun-04	2:00:00	26	174	146	27	24	178	120	58	0.24
16-Jun-04	3:00:00	22	201	176	25	14	337	262	75	0.25
16-Jun-04	4:00:00	22	181	160	21	24	281	231	49	0.26
16-Jun-04	5:00:00	19	131	105	26	48	587	476	112	0.18
16-Jun-04	6:00:00	23	199	170	30	25	186	147	39	0.19
16-Jun-04	7:00:00	18	106	86	20	24	409	308	101	0.16
16-Jun-04	8:00:00	18	66	49	17	38	270	205	66	0.12
16-Jun-04	9:00:00	23	85	66	19	13	140	103	37	0.15
16-Jun-04	10:00:00	19	89	68	21	21	159	123	36	0.11
16-Jun-04	11:00:00	29	107	80	27	20	109	82	27	0.11
16-Jun-04	12:00:00	18	124	90	35	15	102	71	30	0.08

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Jun-04	13:00:00	27	91	61	30	27	106	77	29	0.08
16-Jun-04	14:00:00	28	35	19	17	30	55	31	24	0.08
16-Jun-04	15:00:00	19	98	65	33	21	81	53	27	0.08
16-Jun-04	16:00:00	16	243	173	70	8	37	19	18	0.1
16-Jun-04	17:00:00	31	268	184	84	22	103	64	39	0.14
16-Jun-04	18:00:00	29	98	58	39	32	217	143	75	0.19
16-Jun-04	19:00:00	39	126	84	42	33	226	138	89	0.37
16-Jun-04	20:00:00	60	179	125	54	49	290	204	86	0.38
16-Jun-04	21:00:00	42	233	186	47	48	509	415	94	0.36
16-Jun-04	22:00:00	39	207	131	76	20	550	419	131	0.32
16-Jun-04	23:00:00	28	181	129	52	43	609	468	141	0.25
17-Jun-04	0:00:00	37	244	182	62	62	624	525	99	0.2
17-Jun-04	1:00:00	39	239	179	60	52	451	360	91	0.16
17-Jun-04	2:00:00	25	176	123	54	48	443	348	95	0.23
17-Jun-04	3:00:00	31	184	133	51	40	441	361	80	0.19
17-Jun-04	4:00:00	28	152	95	57	33	343	274	69	0.22
17-Jun-04	5:00:00	25	191	148	43	36	422	359	63	0.2
17-Jun-04	6:00:00	33	173	114	59	32	302	231	71	0.12
17-Jun-04	7:00:00	28	158	112	46	18	145	112	34	0.11
17-Jun-04	8:00:00	16	174	124	50	13	117	90	27	0.09
17-Jun-04	9:00:00	11	223	173	50	8	94	69	25	0.11
17-Jun-04	10:00:00	9	127	98	29	8	107	75	31	0.09
17-Jun-04	11:00:00	20	97	64	33	13	115	64	51	0.06
17-Jun-04	12:00:00	24	76	47	29	12	54	35	19	0.06
17-Jun-04	13:00:00	18	49	31	18	16	23	12	11	0.06
17-Jun-04	14:00:00	16	58	35	23	18	11	6	6	0.07
17-Jun-04	15:00:00	31	261	174	87	37	22	10	12	0.07
17-Jun-04	16:00:00	21	233	160	73	1	14	6	8	0.06
17-Jun-04	17:00:00	11	101	69	32	25	30	21	9	0.08
17-Jun-04	18:00:00	12	99	71	28		77	53	24	0.45
17-Jun-04	19:00:00	23	76	49	27	30	145	108	37	0.14
17-Jun-04	20:00:00	19	75	52	23	37	239	172	67	0.11
17-Jun-04	21:00:00	16	122	98	23	27	71	54	17	0.21
17-Jun-04	22:00:00	29	161	132	29	26	181	145	36	0.21
17-Jun-04	23:00:00	36	360	314	46	18	155	140	15	0.21
18-Jun-04	0:00:00	31	307	261	46	18	90	78	12	0.23
18-Jun-04	1:00:00	38	222	189	33	29	228	197	30	0.23
18-Jun-04	2:00:00	20	37	21	16	27	267	212	54	0.18
18-Jun-04	3:00:00	28	26	13	13	39	280	225	55	0.14
18-Jun-04	4:00:00	20	187	133	53	29	262	214	48	0.24
18-Jun-04	5:00:00	32	238	191	46	38	364	306	58	0.18
18-Jun-04	6:00:00	46	301	228	73	36	164	128	36	0.17
18-Jun-04	7:00:00	42	255	195	60	26	120	103	17	0.2
18-Jun-04	8:00:00	8	127	100	27	9	184	149	34	0.14

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
18-Jun-04	9:00:00	1	85	59	27		161	116	45	0.1
18-Jun-04	10:00:00	19	106	68	38	12	61	38	23	0.08
18-Jun-04	11:00:00	14	93	60	33	14	39	22	17	0.11
18-Jun-04	12:00:00	21	65	36	29	7	81	50	31	0.09
18-Jun-04	13:00:00	16	107	64	44	24	54	25	29	0.08
18-Jun-04	14:00:00	29	62	34	29	21	28	10	18	0.09
18-Jun-04	15:00:00	33	72	35	36	37	71	39	33	0.1
18-Jun-04	16:00:00	28	119	69	50	31	83	45	37	0.08
18-Jun-04	17:00:00	26	171	141	30	35	110	75	35	0.08
18-Jun-04	18:00:00	55	383	339	44	21	191	168	22	0.09
18-Jun-04	19:00:00	30	415	383	32	32	464	424	40	
18-Jun-04	20:00:00	38	321	289	32	38	296	279	17	
18-Jun-04	21:00:00	40	227	159	69	53	74	42	32	
18-Jun-04	22:00:00	31	265	214	50	49	260	189	71	
18-Jun-04	23:00:00	60	305	263	42	43	206	177	29	
19-Jun-04	0:00:00	71	263	228	35	47	176	152	24	
19-Jun-04	1:00:00	62	298	262	36	49	192	148	44	
19-Jun-04	2:00:00	44	301	269	31	44	193	143	49	
19-Jun-04	3:00:00	60	304	272	32	41	210	180	30	
19-Jun-04	4:00:00	41	285	253	32	39	225	193	32	
19-Jun-04	5:00:00	32	283	240	43	26	270	245	25	
19-Jun-04	6:00:00	30	245	222	24	35	149	139	10	
19-Jun-04	7:00:00	31	202	171	31	27	203	174	29	
19-Jun-04	8:00:00	31	156	124	33	32	217	176	41	
19-Jun-04	9:00:00	27	120	85	35	34	158	120	37	
19-Jun-04	10:00:00	18	96	59	37	15	93	59	35	
19-Jun-04	11:00:00	34	104	67	37	27	66	39	26	
19-Jun-04	12:00:00	31	82	43	39	17	78	40	38	
19-Jun-04	13:00:00	21	86	55	30	21	68	34	34	
19-Jun-04	14:00:00	20	57	30	27	23	73	45	28	
19-Jun-04	15:00:00	20	117	72	45	17	69	43	26	
19-Jun-04	16:00:00	20	69	41	28	18	96	62	35	
19-Jun-04	17:00:00	17	95	55	40	23	65	34	31	
19-Jun-04	18:00:00	25	75	45	30	20	131	69	62	
19-Jun-04	19:00:00	23	151	98	53	28	24	8	16	
19-Jun-04	20:00:00	30	148	91	57	24	38	12	26	
19-Jun-04	21:00:00	35	307	234	74	25	149	88	61	
19-Jun-04	22:00:00	40	484	371	113	32	53	22	31	
19-Jun-04	23:00:00	51	509	363	146	27	153	87	66	
20-Jun-04	0:00:00	62	501	355	146	34	84	47	37	
20-Jun-04	1:00:00	71	694	519	175	45	174	100	73	
20-Jun-04	2:00:00	63	638	488	150	41	99	44	55	
20-Jun-04	3:00:00	53	518	405	114	36	95	48	47	
20-Jun-04	4:00:00	47	404	291	114	28	41	20	21	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
20-Jun-04	5:00:00	42	345	249	96	27	43	23	20	
20-Jun-04	6:00:00	36	313	219	94	18	138	91	47	
20-Jun-04	7:00:00	31	441	328	113	25	179	111	68	
20-Jun-04	8:00:00	24	432	312	119	10	138	96	42	
20-Jun-04	9:00:00	33	375	244	131	21	87	55	32	
20-Jun-04	10:00:00	30	321	223	99	11	39	19	19	
20-Jun-04	11:00:00	32	196	131	65	16	74	40	34	
20-Jun-04	12:00:00	34	104	59	44	25	28	13	15	
20-Jun-04	13:00:00	24	88	47	42	16	38	20	18	
20-Jun-04	14:00:00	28	54	30	24	25	103	56	47	
20-Jun-04	15:00:00	25	86	45	41	27	31	17	14	
20-Jun-04	16:00:00	25	74	45	29	16	20	9	12	
20-Jun-04	17:00:00	25	141	91	50	18	20	6	14	
20-Jun-04	18:00:00	23	130	84	47	22	22	13	9	
20-Jun-04	19:00:00	33	194	124	69	20	11	0	11	
20-Jun-04	20:00:00	29	133	81	52	34	60	22	37	
20-Jun-04	21:00:00	28	153	103	50	24	48	19	30	
20-Jun-04	22:00:00	28	190	136	54	25	67	33	34	
20-Jun-04	23:00:00	24	250	174	75	20	46	14	31	
21-Jun-04	0:00:00	26	226	159	66	16	29	3	26	
21-Jun-04	1:00:00	22	153	100	53	17	64	38	26	
21-Jun-04	2:00:00	22	205	138	67	22	25	2	23	
21-Jun-04	3:00:00	23	269	180	89	15	27	7	20	
21-Jun-04	4:00:00	35	246	181	66	22				
21-Jun-04	5:00:00	27	351	250	102	18				
21-Jun-04	6:00:00	42	215	153	62	21	58	29	29	
21-Jun-04	7:00:00	23	197	136	61	13	15	4	11	
21-Jun-04	8:00:00	22	120	89	31	14	11	4	8	
21-Jun-04	9:00:00	16	111	71	40	13	11	4	8	
21-Jun-04	10:00:00	26	60	38	22	23	13	4	9	
21-Jun-04	11:00:00	32	191	158	34	25	28	18	10	
21-Jun-04	12:00:00	12	68	43	25	11	23	13	9	
21-Jun-04	13:00:00	26	24	7	17	18	12	5	7	
21-Jun-04	14:00:00	25	32	18	15	13				
21-Jun-04	15:00:00	38	88	32	56	31				
21-Jun-04	16:00:00	40	92	51	41	23				
21-Jun-04	17:00:00	44	88	39	49	46				
21-Jun-04	18:00:00	75	185	117	68	54				
21-Jun-04	19:00:00	125	246	157	89	90	94	46	48	
21-Jun-04	20:00:00		116	85	31	8	90	48	41	
21-Jun-04	21:00:00	8	118	80	38	9	173	123	50	
21-Jun-04	22:00:00	11	158	105	53	9	291	222	69	
21-Jun-04	23:00:00	7	90	54	36	18	185	130	55	
22-Jun-04	0:00:00	22	190	135	54	21	352	250	101	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
22-Jun-04	1:00:00	31	186	147	39	61	372	261	111	
22-Jun-04	2:00:00	33	176	139	36	46	240	190	50	
22-Jun-04	3:00:00	30	211	171	40	35	272	213	59	
22-Jun-04	4:00:00	30	203	167	35	33	251	183	68	
22-Jun-04	5:00:00	40	160	124	36	38	359	280	79	0.28
22-Jun-04	6:00:00	35	97	67	30	65	405	307	98	0.24
22-Jun-04	7:00:00	19	78	52	25	81	296	210	85	0.17
22-Jun-04	8:00:00	37	137	105	32	37	194	152	42	0.24
22-Jun-04	9:00:00	26	141	107	35	36	173	118	55	0.31
22-Jun-04	10:00:00	26	135	96	38	45	137	93	43	0.18
22-Jun-04	11:00:00	51	119	80	39	47	76	50	26	0.07
22-Jun-04	12:00:00		52	33	19	26	32	17	14	0.05
22-Jun-04	13:00:00		69	43	26		35	20	15	0.07
22-Jun-04	14:00:00		60	34	26		90	53	37	0.07
22-Jun-04	15:00:00		55	29	26	15	27	13	14	0.08
22-Jun-04	16:00:00	17	46	26	20		71	44	27	0.05
22-Jun-04	17:00:00	11	55	32	22	9	27	11	16	0.06
22-Jun-04	18:00:00	18	60	34	25	21	47	23	23	0.07
22-Jun-04	19:00:00	21	66	37	29	10	61	34	26	0.1
22-Jun-04	20:00:00	16	73	44	30	15	184	136	48	0.09
22-Jun-04	21:00:00	11	151	113	38	18	171	127	45	0.08
22-Jun-04	22:00:00	19	91	60	31	17	240	171	69	0.08
22-Jun-04	23:00:00	20	189	147	42	23	398	306	92	0.1
23-Jun-04	0:00:00	30	180	144	36	19	390	306	84	0.2
23-Jun-04	1:00:00	43	221	181	40	27	423	356	68	0.15
23-Jun-04	2:00:00	26	219	179	40	29	476	377	99	0.2
23-Jun-04	3:00:00	40	213	174	39	34	662	521	141	0.16
23-Jun-04	4:00:00	17	141	106	35	41	766	605	161	0.24
23-Jun-04	5:00:00	26	159	121	38	46	763	606	157	0.21
23-Jun-04	6:00:00	25	147	112	35	33	644	515	129	0.11
23-Jun-04	7:00:00	20	115	87	28	38	444	358	87	0.07
23-Jun-04	8:00:00	21	124	93	32	36	363	277	86	0.02
23-Jun-04	9:00:00	19	137	107	30	12	136	99	37	0.02
23-Jun-04	10:00:00	22	124	93	32	15	74	51	23	0.01
23-Jun-04	11:00:00	14	72	52	20	11	34	24	10	0.01
23-Jun-04	12:00:00	8	93	65	28	6	67	48	19	0.02
23-Jun-04	13:00:00	21	94	67	28	22	75	50	25	0.03
23-Jun-04	14:00:00	12	121	90	31	24	104	72	32	0.02
23-Jun-04	15:00:00	34	127	90	37	11	84	61	23	0.04
23-Jun-04	16:00:00	19	202	145	57	16	105	75	30	0.05
23-Jun-04	17:00:00	25	192	144	48	20	231	178	52	0.05
23-Jun-04	18:00:00	17	126	95	32	20	149	110	39	0.02
23-Jun-04	19:00:00	9	44	28	16	4	103	68	35	0.07
23-Jun-04	20:00:00	13	69	47	22	39	502	344	159	0.06

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Jun-04	21:00:00	16	65	45	21	28	350	254	96	0.7
23-Jun-04	22:00:00	8	87	65	23	15	403	308	95	0.1
23-Jun-04	23:00:00	13	185	148	37	25	334	246	89	0.1
24-Jun-04	0:00:00	24	308	254	54	24	227	188	40	0.27
24-Jun-04	1:00:00	24	176	139	37	19	314	220	94	0.14
24-Jun-04	2:00:00	24	264	200	64	23	241	191	51	0.11
24-Jun-04	3:00:00	17	147	118	29	22	351	272	80	0.12
24-Jun-04	4:00:00	11	342	273	69	28	365	286	79	0.11
24-Jun-04	5:00:00	23	169	133	36	17	264	199	65	0.23
24-Jun-04	6:00:00	16	158	125	32	22	116	90	26	0.18
24-Jun-04	7:00:00	29	311	237	74	12	84	67	17	0.21
24-Jun-04	8:00:00	20	318	244	74	12	180	127	53	0.11
24-Jun-04	9:00:00	15	287	215	72	9	45	26	19	0.04
24-Jun-04	10:00:00	8	227	168	59	13	36	22	14	0.05
24-Jun-04	11:00:00	23	226	156	69	9	119	66	52	0.18
24-Jun-04	12:00:00	25	59	34	25	11	36	18	18	0.07
24-Jun-04	13:00:00	20	68	40	28	19				0.05
24-Jun-04	14:00:00	27	34	16	18	32	21	6	15	0.04
24-Jun-04	15:00:00	34	50	28	22	26	28	13	15	0.03
24-Jun-04	16:00:00	42	127	82	45	26	90	52	38	0.04
24-Jun-04	17:00:00	28	128	84	43	28	123	76	47	0.06
24-Jun-04	18:00:00	44	162	112	49	24	137	90	47	0.05
24-Jun-04	19:00:00	27	215	153	63	19	188	132	56	0.02
24-Jun-04	20:00:00	35	166	121	45	12	236	169	67	0.01
24-Jun-04	21:00:00	28	106	70	35	9	198	127	70	0
24-Jun-04	22:00:00	16	126	80	46	18	254	193	61	0.01
24-Jun-04	23:00:00	32	145	110	36	19	446	334	112	0.2
25-Jun-04	0:00:00	17	161	118	44	32	544	409	135	0.5
25-Jun-04	1:00:00	25	218	172	47	32	965	655	310	0.53
25-Jun-04	2:00:00	22	126	87	39	30	908	697	211	0.19
25-Jun-04	3:00:00	22	162	122	40	29	517	432	85	0.17
25-Jun-04	4:00:00	30	140	100	40	30	550	418	132	0.13
25-Jun-04	5:00:00	13	121	88	33	28	402	308	94	0.12
25-Jun-04	6:00:00	40	85	58	27	31	350	248	102	0.09
25-Jun-04	7:00:00	7	31	16	14	22	209	136	74	0.04
25-Jun-04	8:00:00	24	44	26	18	13	167	101	66	0.05
25-Jun-04	9:00:00	14	37	22	14		305	208	97	0.03
25-Jun-04	10:00:00	13	26	13	13		59	33	26	0.01
25-Jun-04	11:00:00	18	24	14	10		8	2	5	0.01
25-Jun-04	12:00:00	8	45	29	16					0.01
25-Jun-04	13:00:00	23	86	59	27		8	3	5	0.02
25-Jun-04	14:00:00	9	71	49	22		40	25	14	0.02
25-Jun-04	15:00:00		69	36	33		32	14	18	0.01
25-Jun-04	16:00:00	6	120	72	49		38	16	22	0.01

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Jun-04	17:00:00	10	156	98	58		20	6	14	0.02
25-Jun-04	18:00:00	13	418	362	56		51	29	22	0.02
25-Jun-04	19:00:00	11	136	100	36		28	11	16	0.05
25-Jun-04	20:00:00	9	100	72	28		43	25	17	0.03
25-Jun-04	21:00:00	15	120	91	29		77	52	25	0.04
25-Jun-04	22:00:00	5	140	115	25		121	86	35	0.03
25-Jun-04	23:00:00	14	124	99	25		114	75	38	0.6
26-Jun-04	0:00:00	8	151	124	27		213	184	30	0.14
26-Jun-04	1:00:00	20	176	149	27		317	247	70	0.13
26-Jun-04	2:00:00	9	130	105	25		395	296	99	0.08
26-Jun-04	3:00:00	18	150	125	26		148	103	45	0.15
26-Jun-04	4:00:00	15	168	145	24		180	140	40	0.08
26-Jun-04	5:00:00	14	193	171	22		193	146	47	0.13
26-Jun-04	6:00:00	19	212	193	20		341	277	64	0.17
26-Jun-04	7:00:00	21	239	215	24		268	220	48	0.11
26-Jun-04	8:00:00	15	54	39	15		132	105	26	0.08
26-Jun-04	9:00:00	12	128	99	29		138	114	24	0.05
26-Jun-04	10:00:00	9	75	50	25		70	46	24	0.04
26-Jun-04	11:00:00	18	54	33	21		38	20	18	0.09
26-Jun-04	12:00:00	25	80	46	34		121	88	33	0.06
26-Jun-04	13:00:00	33	107	91	16		74	60	14	0.07
26-Jun-04	14:00:00	33	86	47	39					0.02
26-Jun-04	15:00:00	43	83	45	37		41	17	25	0.08
26-Jun-04	16:00:00	36	87	52	34		29	12	17	0.2
26-Jun-04	17:00:00	46	124	76	48		9	0	10	0.06
26-Jun-04	18:00:00	42	117	74	43		23	9	14	0.07
26-Jun-04	19:00:00	43	285	179	106		56	20	36	0.11
26-Jun-04	20:00:00	57	194	139	55		24	8	16	0.27
26-Jun-04	21:00:00	37	159	108	50		133	82	51	0.15
26-Jun-04	22:00:00	30	180	124	56		237	156	81	0.05
26-Jun-04	23:00:00	20	149	97	52		98	54	44	0.08
27-Jun-04	0:00:00	25	175	122	54		187	130	57	0.09
27-Jun-04	1:00:00	29	227	164	63		51	23	28	0.07
27-Jun-04	2:00:00	19	243	179	63		24	7	18	0.07
27-Jun-04	3:00:00	29	224	170	54					0.09
27-Jun-04	4:00:00	24	182	127	54		68	37	32	0.08
27-Jun-04	5:00:00	25	300	227	73		95	55	40	0.07
27-Jun-04	6:00:00	21	194	142	51		67	35	31	0.06
27-Jun-04	7:00:00	17	137	99	38		33	17	16	0.08
27-Jun-04	8:00:00	15	90	65	25		32	18	14	0.08
27-Jun-04	9:00:00	25	279	205	74		12	4	8	0.07
27-Jun-04	10:00:00	10	119	76	43		62	41	21	0.12
27-Jun-04	11:00:00	19	362	331	32		272	262	9	0.1
27-Jun-04	12:00:00	29	206	138	68	48	53	29	24	0.11

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Jun-04	13:00:00	19	103	57	46	30	78	44	34	0.13
27-Jun-04	14:00:00	34	72	37	35	25	43	22	21	0.14
27-Jun-04	15:00:00	36	208	131	77	31	29	11	18	0.36
27-Jun-04	16:00:00	42	261	182	79	33	33	14	19	0.24
27-Jun-04	17:00:00	34	402	288	114	29	69	38	31	0.18
27-Jun-04	18:00:00	33	77	40	37	28	20	7	13	0.17
27-Jun-04	19:00:00	26	256	191	65	22	12	1	11	0.23
27-Jun-04	20:00:00	47	129	88	41	46	49	22	27	0.21
27-Jun-04	21:00:00	31	150	108	42	27	69	39	30	0.28
27-Jun-04	22:00:00	39	165	129	36	33	74	46	28	0.27
27-Jun-04	23:00:00	37	160	129	31	27	118	90	27	0.23
28-Jun-04	0:00:00	44	242	207	34	41	138	114	24	0.21
28-Jun-04	1:00:00	46	248	216	32	46	107	94	13	0.2
28-Jun-04	2:00:00	39	204	182	21	32	161	115	46	0.22
28-Jun-04	3:00:00	34	274	235	39	28	119	99	20	0.21
28-Jun-04	4:00:00	42	162	134	27	32	112	89	23	0.2
28-Jun-04	5:00:00	38	194	173	21	22	122	112	11	0.27
28-Jun-04	6:00:00	28	188	172	16	29	130	124	6	0.48
28-Jun-04	7:00:00	38	223	201	22	32	177	173	4	0.66
28-Jun-04	8:00:00	36	209	192	16	29	157	153	4	0.32
28-Jun-04	9:00:00	36	130	102	28	24	116	93	23	0.27
28-Jun-04	10:00:00	45	83	58	25	41	76	56	20	0.18
28-Jun-04	11:00:00	33	65	41	25	19	44	26	18	0.17
28-Jun-04	12:00:00	39	52	29	24	24	69	48	21	0.19
28-Jun-04	13:00:00	81	36	14	21	29	117	83	34	0.12
28-Jun-04	14:00:00	27	32	14	19	35				0.11
28-Jun-04	15:00:00	17	149	93	56	11				0.12
28-Jun-04	16:00:00	13	61	34	27	13				0.1
28-Jun-04	17:00:00	31	86	47	40	22	39	18	20	0.09
28-Jun-04	18:00:00	25	99	57	42	12	38	18	19	0.09
28-Jun-04	19:00:00	25	119	73	46	20	47	23	24	0.13
28-Jun-04	20:00:00	38	233	177	56	34	74	43	32	0.19
28-Jun-04	21:00:00	48	130	84	46	52	107	76	31	0.32
28-Jun-04	22:00:00	48	227	182	45	35	203	171	32	0.3
28-Jun-04	23:00:00	37	209	160	48	37	188	150	38	0.3
29-Jun-04	0:00:00	37	193	153	40	37	119	98	20	0.22
29-Jun-04	1:00:00	56	303	259	44	50	159	129	30	0.21
29-Jun-04	2:00:00	50	345	307	38	35	241	211	30	0.27
29-Jun-04	3:00:00	52	363	323	40	43	237	201	35	0.23
29-Jun-04	4:00:00	42	222	194	28	35	253	229	24	0.22
29-Jun-04	5:00:00	36	222	196	27	22	228	199	29	0.27
29-Jun-04	6:00:00	29	185	163	22	37	197	176	22	0.39
29-Jun-04	7:00:00		170	149	20	27	295	252	43	0.16
29-Jun-04	8:00:00	17	105	80	25	38	155	109	47	0.14

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
29-Jun-04	9:00:00	29	94	58	36	25	150	100	50	0.13
29-Jun-04	10:00:00	32	195	129	67	27	53	30	23	0.13
29-Jun-04	11:00:00	35	75	43	32	32	48	24	24	0.11
29-Jun-04	12:00:00	40	57	25	32	34	46	19	26	0.1
29-Jun-04	13:00:00	35	71	37	33	29	66	29	37	0.13
29-Jun-04	14:00:00	30	95	56	39	32	106	60	47	0.09
29-Jun-04	15:00:00	38	113	63	50	28	40	16	23	0.07
29-Jun-04	16:00:00	46	108	55	53	41	47	19	28	0.06
29-Jun-04	17:00:00		111	59	52	40	35	12	22	0.09
29-Jun-04	18:00:00	51	151	89	62	51	73	36	36	0.12
29-Jun-04	19:00:00	54	201	131	70	44	76	36	40	0.18
29-Jun-04	20:00:00	50	246	174	71	55	108	62	45	0.18
29-Jun-04	21:00:00	67	262	189	73	51	86	45	41	0.22
29-Jun-04	22:00:00	53	265	210	55	46	228	149	79	0.13
29-Jun-04	23:00:00	46	374	271	103	35	105	56	49	0.15
30-Jun-04	0:00:00	48	456	339	117	32	120	76	43	0.18
30-Jun-04	1:00:00	56	232	180	53	45	251	177	74	0.22
30-Jun-04	2:00:00	62	393	320	73	55	217	178	40	0.15
30-Jun-04	3:00:00	70	482	413	70	47	268	204	64	0.16
30-Jun-04	4:00:00	59	524	440	84	50	258	212	46	0.11
30-Jun-04	5:00:00	46	342	273	70	53	141	101	40	0.16
30-Jun-04	6:00:00	48	203	170	33	52	222	142	79	0.22
30-Jun-04	7:00:00	65	231	185	46	53	117	80	36	0.12
30-Jun-04	8:00:00	53	227	173	54	35	45	30	15	0.14
30-Jun-04	9:00:00	32	99	68	31	31	49	31	18	0.16
30-Jun-04	10:00:00	38	421	281	139	29	48	27	21	0.14
30-Jun-04	11:00:00	54	182	134	48	53	47	27	20	0.13
30-Jun-04	12:00:00	41	73	41	32	54	99	65	34	0.16
30-Jun-04	13:00:00	76	80	44	36	78	164	91	74	0.08
30-Jun-04	14:00:00	19	135	87	48	39	18	4	15	0.07
30-Jun-04	15:00:00	38	61	32	29	35	24	6	18	0.08
30-Jun-04	16:00:00	43	114	70	44	50	107	69	38	0.1
30-Jun-04	17:00:00	40	180	127	53	38	170	116	54	0.09
30-Jun-04	18:00:00	46	138	91	47	40	122	79	43	0.1
30-Jun-04	19:00:00	27	125	74	52	31	115	79	36	0.12
30-Jun-04	20:00:00	31	126	84	42	24	313	226	86	0.17
30-Jun-04	21:00:00	23	118	73	45	26	406	320	86	0.18
30-Jun-04	22:00:00	28	187	128	59	36	404	317	87	0.07
30-Jun-04	23:00:00	29	276	229	47	28	116	91	25	0.15
1-Jul-04	0:00:00	40	322	279	43	34	343	269	75	0.27
1-Jul-04	1:00:00	37	217	176	41	40	293	241	52	0.26
1-Jul-04	2:00:00	29	279	234	46	38	344	276	69	0.18
1-Jul-04	3:00:00	39	262	207	55	47	304	238	67	0.17
1-Jul-04	4:00:00	28	138	100	38	32	327	261	66	0.17

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-Jul-04	5:00:00	24	130	96	34	35	429	341	89	0.16
1-Jul-04	6:00:00	26	129	97	32	36	355	273	82	0.11
1-Jul-04	7:00:00	24	153	114	39	20	146	103	43	0.12
1-Jul-04	8:00:00	27	148	132	16	23	168	136	32	
1-Jul-04	9:00:00	33	79	57	22	33	181	151	30	
1-Jul-04	10:00:00	24	55	36	18	26	93	62	32	
1-Jul-04	11:00:00		95	65	30		111	82	29	
1-Jul-04	12:00:00	14	43	26	18	14	40	26	14	
1-Jul-04	13:00:00	16	44	26	18	19	26	15	10	
1-Jul-04	14:00:00	14	115	79	36	21	95	61	33	
1-Jul-04	15:00:00	17	108	70	39	19	64	36	28	
1-Jul-04	16:00:00	34	121	84	37	25	72	48	24	
1-Jul-04	17:00:00	14	155	114	41	20	75	51	24	
1-Jul-04	18:00:00	21	103	74	29	24	101	70	30	
1-Jul-04	19:00:00	16	86	56	29	14	100	69	31	
1-Jul-04	20:00:00	14	48	29	19	16	159	103	56	
1-Jul-04	21:00:00	22	66	45	21	15	170	121	48	
1-Jul-04	22:00:00	22	154	121	32	15	195	152	43	
1-Jul-04	23:00:00	20	159	123	36	22	237	200	37	
2-Jul-04	0:00:00	20	145	111	33	25	261	216	45	
2-Jul-04	1:00:00	23	163	133	30	32	230	191	39	
2-Jul-04	2:00:00	23	200	164	35	23	258	216	42	
2-Jul-04	3:00:00	26	213	167	47	30	159	126	33	
2-Jul-04	4:00:00	17	175	144	32	21	101	75	26	
2-Jul-04	5:00:00	32	157	136	22	19	89	76	13	
2-Jul-04	6:00:00	28	181	154	27	21	176	156	20	
2-Jul-04	7:00:00	22	113	92	21	27	165	140	25	
2-Jul-04	8:00:00	14	85	57	28	14	127	103	24	0.11
2-Jul-04	9:00:00	9	39	24	15	11	48	32	16	0.16
2-Jul-04	10:00:00	21	78	54	24	20	142	105	37	0.1
2-Jul-04	11:00:00	3	75	50	24	7	68	44	23	0.06
2-Jul-04	12:00:00		45	24	21		17	9	7	0.07
2-Jul-04	13:00:00	3	55	31	24		12	5	7	0.07
2-Jul-04	14:00:00	9	31	17	14	7	5	0	4	0.06
2-Jul-04	15:00:00	2	194	129	65		8	3	5	0.05
2-Jul-04	16:00:00	3	55	34	21	9	6	2	4	0.05
2-Jul-04	17:00:00	9	80	51	29	3	20	10	10	0.08
2-Jul-04	18:00:00	23	180	108	72	11	14	6	8	0.12
2-Jul-04	19:00:00	25	542	447	95	9	10	0	10	0.11
2-Jul-04	20:00:00	11	1576	1182	394	15	16	7	9	0.23
2-Jul-04	21:00:00	17	386	293	93	20	80	58	22	0.44
2-Jul-04	22:00:00	36	762	551	211	28	104	82	21	0.44
2-Jul-04	23:00:00	35	421	358	62	26	161	145	16	0.48
3-Jul-04	0:00:00	42	417	350	68	24	182	163	19	0.48

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-Jul-04	1:00:00	48	279	244	35	46	154	137	17	0.29
3-Jul-04	2:00:00	33	112	92	20	27	96	86	9	0.39
3-Jul-04	3:00:00	33	241	207	34	22	146	136	10	0.45
3-Jul-04	4:00:00	40	309	274	36	31	164	157	7	0.42
3-Jul-04	5:00:00	35	288	248	40	29	138	132	6	0.24
3-Jul-04	6:00:00	35	155	131	24	28	65	61	5	0.26
3-Jul-04	7:00:00	26	186	159	27	26	101	92	9	0.19
3-Jul-04	8:00:00	12	54	34	20	13	120	84	36	0.14
3-Jul-04	9:00:00	24	71	51	20	5	95	68	28	0.13
3-Jul-04	10:00:00	13	44	26	17	22	68	37	31	0.08
3-Jul-04	11:00:00	20	48	33	15	13	10	4	6	0.08
3-Jul-04	12:00:00	15	288	206	83	51	5	1	4	0.1
3-Jul-04	13:00:00	46	37	20	16	4	25	15	10	0.08
3-Jul-04	14:00:00	9	17	8	8		7	3	4	0.12
3-Jul-04	15:00:00	46	76	48	28	66	49	30	19	0.12
3-Jul-04	16:00:00		45	27	19	8	32	18	14	0.12
3-Jul-04	17:00:00	20	39	26	13		18	8	10	0.11
3-Jul-04	18:00:00	18	43	24	19	46				0.12
3-Jul-04	19:00:00	30	25	12	14	7	5	2	3	0.14
3-Jul-04	20:00:00	16	63	40	23		16	8	8	0.39
3-Jul-04	21:00:00	62	188	153	35	46	55	38	16	0.4
3-Jul-04	22:00:00	51	171	139	32	35	111	92	19	0.63
3-Jul-04	23:00:00		66	43	23	45	291	246	45	0.12
4-Jul-04	0:00:00	24	50	28	22	29	177	143	34	0.12
4-Jul-04	1:00:00	26	58	35	23	28	203	150	53	0.13
4-Jul-04	2:00:00	23	67	41	25	31	181	141	40	0.13
4-Jul-04	3:00:00	38	96	64	32	29	187	131	56	0.12
4-Jul-04	4:00:00	21	51	33	18	29	207	162	45	0.1
4-Jul-04	5:00:00	23	51	31	20	24	132	98	34	0.09
4-Jul-04	6:00:00	24	86	59	27	26	144	113	31	0.08
4-Jul-04	7:00:00	26	53	34	19	38	108	80	29	0.08
4-Jul-04	8:00:00	16	54	35	19	24	94	71	23	0.1
4-Jul-04	9:00:00	24	142	105	36	24	162	121	41	0.07
4-Jul-04	10:00:00	7	75	50	25	9	100	74	26	0.07
4-Jul-04	11:00:00	22	88	63	25	35	119	89	30	0.05
4-Jul-04	12:00:00	22	106	75	32	16	92	63	29	0.06
4-Jul-04	13:00:00	8	91	61	30	7	63	42	21	0.06
4-Jul-04	14:00:00	8	123	89	34	8	102	67	35	0.05
4-Jul-04	15:00:00	10	115	82	33	3	67	42	25	0.06
4-Jul-04	16:00:00	13	129	95	33	15	91	63	28	0.07
4-Jul-04	17:00:00	19	123	89	35	15	126	85	41	0.09
4-Jul-04	18:00:00	18	164	119	45	16	158	111	47	0.1
4-Jul-04	19:00:00	23	134	98	37	20	167	112	55	0.08
4-Jul-04	20:00:00	27	41	23	18	21	57	32	24	0.17



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
4-Jul-04	21:00:00	9	37	19	18	30	69	42	27	0.19
4-Jul-04	22:00:00	99	96	67	29	76	147	115	32	0.26
4-Jul-04	23:00:00	58	110	81	29	77	204	163	40	0.25
5-Jul-04	0:00:00	74	111	79	32	63	199	161	38	0.22
5-Jul-04	1:00:00	34	83	55	28	37	170	137	34	0.25
5-Jul-04	2:00:00	29	154	121	33	35	184	153	31	0.18
5-Jul-04	3:00:00	27	161	120	41	31	121	97	24	0.16
5-Jul-04	4:00:00	31	96	70	26	23	125	100	25	0.15
5-Jul-04	5:00:00	25	88	62	26	17	125	100	25	0.17
5-Jul-04	6:00:00	18	72	53	19	32	152	128	24	0.16
5-Jul-04	7:00:00	38	123	98	25	27	145	121	23	0.32
5-Jul-04	8:00:00	14	127	93	33	29	371	266	105	0.16
5-Jul-04	9:00:00	34	159	119	40	19	169	125	43	0.18
5-Jul-04	10:00:00	33	137	91	46	30	88	59	29	0.15
5-Jul-04	11:00:00	11	120	81	39	14	112	73	39	0.12
5-Jul-04	12:00:00	42	204	141	63	25	78	46	32	0.12
5-Jul-04	13:00:00	37	205	139	66	23	97	69	29	0.14
5-Jul-04	14:00:00	29	133	93	40	23	67	45	23	0.14
5-Jul-04	15:00:00	18	163	105	57	21	56	37	20	0.15
5-Jul-04	16:00:00	35	118	85	33		76	51	26	0.14
5-Jul-04	17:00:00	41	170	113	58	14	37	22	15	0.07
5-Jul-04	18:00:00	26	278	182	97	37	20	11	9	0.07
5-Jul-04	19:00:00	15	176	120	56	6				0.07
5-Jul-04	20:00:00	10	75	43	32	3	20	8	12	0.09
5-Jul-04	21:00:00	12	140	90	50	11	22	3	19	0.1
5-Jul-04	22:00:00	11	160	101	58	4	42	15	27	0.07
5-Jul-04	23:00:00	17	150	104	45	11	32	8	24	0.1
6-Jul-04	0:00:00	12	141	107	34	9	159	110	49	0.15
6-Jul-04	1:00:00	11	140	105	35	27	186	139	46	0.14
6-Jul-04	2:00:00	17	86	58	28	10	142	113	30	0.19
6-Jul-04	3:00:00	24	166	137	29	16	159	134	25	0.15
6-Jul-04	4:00:00	10	87	65	22	14	130	107	23	0.1
6-Jul-04	5:00:00	10	140	114	25	14	100	83	17	0.14
6-Jul-04	6:00:00	25	168	111	57	9	64	54	9	0.12
6-Jul-04	7:00:00	27	221	164	57	17	41	30	11	0.14
6-Jul-04	8:00:00	11	124	85	39	8	30	22	8	0.11
6-Jul-04	9:00:00	11	224	151	73	6	20	13	6	0.15
6-Jul-04	10:00:00	10	175	133	43		47	32	16	0.13
6-Jul-04	11:00:00	7	172	123	50	4	45	27	18	0.12
6-Jul-04	12:00:00	12	691	525	167	10	9	4	5	0.11
6-Jul-04	13:00:00	26	101	74	27	17	7	1	7	0.13
6-Jul-04	14:00:00	20	31	15	16	14	7	0	7	0.13
6-Jul-04	15:00:00	27	82	51	31	35	23	6	16	0.15
6-Jul-04	16:00:00	59	126	102	24	46	23	9	15	0.22

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
6-Jul-04	17:00:00	52	95	67	28	50	126	109	17	0.18
6-Jul-04	18:00:00		201	147	54	7	39	25	14	0.13
6-Jul-04	19:00:00		134	99	36		69	44	24	0.24
6-Jul-04	20:00:00	26	111	79	33	39	107	75	32	0.22
6-Jul-04	21:00:00	25	122	86	36	16	112	83	29	0.09
6-Jul-04	22:00:00	18	119	83	36	15	48	30	18	0.15
6-Jul-04	23:00:00	15	98	66	32	12	231	167	64	0.1
7-Jul-04	0:00:00	3	58	35	22	19	181	131	50	0.06
7-Jul-04	1:00:00	20	208	166	41	11	42	25	17	0.11
7-Jul-04	2:00:00	21	155	121	34	20	183	115	67	0.15
7-Jul-04	3:00:00	16	185	142	42	20	340	255	85	0.27
7-Jul-04	4:00:00	27	124	93	31	37	615	457	158	0.4
7-Jul-04	5:00:00	21	119	88	31	54	844	674	171	0.27
7-Jul-04	6:00:00	27	172	130	42	46	543	439	104	0.26
7-Jul-04	7:00:00	22	118	88	31	43	709	536	173	0.2
7-Jul-04	8:00:00	13	115	84	31	26	535	409	126	0.15
7-Jul-04	9:00:00	12	122	89	33	24	256	196	61	0.05
7-Jul-04	10:00:00	7	129	93	36	8	131	97	34	0.07
7-Jul-04	11:00:00	14	61	39	22	9	70	45	24	0.07
7-Jul-04	12:00:00	10	86	54	31	2	75	47	28	0.08
7-Jul-04	13:00:00	20	78	49	30	10	73	45	27	0.1
7-Jul-04	14:00:00	20	97	62	35	17	141	94	47	0.1
7-Jul-04	15:00:00	17	95	58	37	22	116	79	37	0.1
7-Jul-04	16:00:00	26	122	83	39	17	122	73	49	0.16
7-Jul-04	17:00:00	27	119	81	38	16	190	132	59	0.18
7-Jul-04	18:00:00	25	456	347	108	58	173	125	48	0.19
7-Jul-04	19:00:00	17	630	501	129	8	195	144	51	0.25
7-Jul-04	20:00:00	37	245	201	44	32	241	198	43	0.27
7-Jul-04	21:00:00	34	304	254	50	29	236	202	34	0.23
7-Jul-04	22:00:00	28	586	460	127	29	212	188	24	0.31
7-Jul-04	23:00:00	34	448	374	74	36	252	213	38	0.3
8-Jul-04	0:00:00	38	382	332	50	33	307	265	42	0.28
8-Jul-04	1:00:00	42	315	270	45	35	241	210	31	0.35
8-Jul-04	2:00:00	49	257	217	40	40	294	251	43	0.37
8-Jul-04	3:00:00	22	228	184	44	40	516	413	104	0.35
8-Jul-04	4:00:00	26	187	149	38	47	494	376	119	1.12
8-Jul-04	5:00:00	21	134	93	41		1406	1059	347	0.33
8-Jul-04	6:00:00	18	170	139	31	76	345	272	73	0.61
8-Jul-04	7:00:00	25	162	113	49	47	905	662	243	0.69
8-Jul-04	8:00:00	13	140	105	35	109	633	463	170	0.36
8-Jul-04	9:00:00	20	127	93	33	60	420	305	115	0.21
8-Jul-04	10:00:00	21	147	124	23	59	363	231	133	0.8
8-Jul-04	11:00:00	18	156	132	24		133	108	25	0.04
8-Jul-04	12:00:00	18	300	277	23	23	285	269	16	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
8-Jul-04	13:00:00	22	162	97	65	24	91	57	34	0.02
8-Jul-04	14:00:00	20	82	48	34	16	37	20	18	0.04
8-Jul-04	15:00:00	26	118	68	50	23	17	7	10	0.04
8-Jul-04	16:00:00	22	204	141	63	16	47	26	21	0.04
8-Jul-04	17:00:00	25	135	81	54	22	37	19	18	0.06
8-Jul-04	18:00:00	27	166	117	49	14	97	60	37	0.08
8-Jul-04	19:00:00	34	168	110	58	36	222	126	96	0.12
8-Jul-04	20:00:00	36	297	229	67	46	140	81	59	0.26
8-Jul-04	21:00:00	63	378	311	67	56	192	147	45	0.26
8-Jul-04	22:00:00	50	339	283	56	40	181	131	51	0.28
8-Jul-04	23:00:00	60	363	315	48	34	196	161	35	0.35
9-Jul-04	0:00:00	59	410	370	40	52	441	362	79	0.54
9-Jul-04	1:00:00	80	482	433	49	63	305	276	29	0.6
9-Jul-04	2:00:00	68	452	396	56	58	408	337	71	0.66
9-Jul-04	3:00:00	55	341	296	44	57	570	462	108	0.44
9-Jul-04	4:00:00	37	183	152	30	51	531	413	117	0.42
9-Jul-04	5:00:00		301	265	36	49	324	280	44	0.28
9-Jul-04	6:00:00	59	475	377	98	46	137	126	12	0.4
9-Jul-04	7:00:00	58	386	338	49	33	191	158	33	0.24
9-Jul-04	8:00:00	25	190	152	38	22	109	85	24	0.2
9-Jul-04	9:00:00	15	49	27	22	19	158	114	44	0.2
9-Jul-04	10:00:00	35	61	34	28	21	177	115	63	0.1
9-Jul-04	11:00:00	11	40	19	20	14	36	10	25	0.1
9-Jul-04	12:00:00	39	41	16	25	37	131	71	59	0.08
9-Jul-04	13:00:00	29	58	27	31	32	35	16	19	0.04
9-Jul-04	14:00:00		91	54	37	5	56	35	22	0.06
9-Jul-04	15:00:00	23	105	71	34	23	62	39	24	0.06
9-Jul-04	16:00:00	17	101	67	34	14	54	32	22	0.08
9-Jul-04	17:00:00	26	106	66	40	21	36	15	22	0.18
9-Jul-04	18:00:00	48	91	55	36	44	96	60	35	0.22
9-Jul-04	19:00:00	26	241	198	43	41	90	58	33	0.16
9-Jul-04	20:00:00	22	141	94	46	44	27	7	20	0.28
9-Jul-04	21:00:00	52	181	145	37		104	76	28	0.36
9-Jul-04	22:00:00	78	249	215	34	31	142	116	26	0.36
9-Jul-04	23:00:00	45	265	223	42	35	108	81	26	0.4
10-Jul-04	0:00:00	36	270	231	39	52	156	133	23	0.48
10-Jul-04	1:00:00	49	270	230	40	65	224	197	27	0.38
10-Jul-04	2:00:00	53	323	279	43	41	233	200	33	0.22
10-Jul-04	3:00:00	55	226	190	37	36	115	89	25	0.22
10-Jul-04	4:00:00	47	246	209	37	27	163	146	17	0.28
10-Jul-04	5:00:00	55	370	333	38	31	187	165	22	0.32
10-Jul-04	6:00:00	44	344	311	33	33	165	151	14	0.48
10-Jul-04	7:00:00	42	267	241	26	30	174	166	8	0.38
10-Jul-04	8:00:00	30	192	163	30	17	158	127	31	0.16

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
10-Jul-04	9:00:00	27	95	69	25	28	178	125	53	0.12
10-Jul-04	10:00:00	37	122	75	47	30	151	103	48	0.06
10-Jul-04	11:00:00	13	75	41	34	9	69	41	28	0.06
10-Jul-04	12:00:00	23	106	67	39	28	116	75	41	0.06
10-Jul-04	13:00:00	27	114	75	38	21	53	21	32	0.06
10-Jul-04	14:00:00	35	61	30	31	29	39	17	23	0.04
10-Jul-04	15:00:00	35	92	52	40	37	32	13	19	0.1
10-Jul-04	16:00:00	47	122	71	51	49	270	179	90	0.1
10-Jul-04	17:00:00	61	146	89	57	65	269	172	97	0.1
10-Jul-04	18:00:00	50	118	79	38	102	260	187	73	0.08
10-Jul-04	19:00:00	6	158	109	49	40	404	268	136	0.1
10-Jul-04	20:00:00	20	143	99	44	35	267	180	86	0.12
10-Jul-04	21:00:00	27	112	75	37	50	283	210	73	0.16
10-Jul-04	22:00:00	21	164	128	36	53	277	218	59	0.16
10-Jul-04	23:00:00	23	181	140	41	44	213	173	40	0.24
11-Jul-04	0:00:00	42	219	177	41	44	253	208	45	0.24
11-Jul-04	1:00:00	40	219	181	38	65	279	219	60	0.26
11-Jul-04	2:00:00	45	192	161	31	76	364	281	82	0.24
11-Jul-04	3:00:00	8	123	97	25	66	246	185	61	0.2
11-Jul-04	4:00:00	24	233	185	48	99	238	190	48	0.2
11-Jul-04	5:00:00	49	237	206	31	49	199	168	30	0.2
11-Jul-04	6:00:00	21	150	131	19	59	157	126	31	0.3
11-Jul-04	7:00:00	35	189	165	24	45	205	177	28	0.18
11-Jul-04	8:00:00	28	109	80	29	30	123	96	27	0.14
11-Jul-04	9:00:00		124	86	38	13	95	67	28	0.12
11-Jul-04	10:00:00	14	147	95	52	25	234	160	74	0.16
11-Jul-04	11:00:00	15	91	59	32	21	194	131	63	0.1
11-Jul-04	12:00:00	17	64	37	27	14	87	48	39	0.12
11-Jul-04	13:00:00	23	158	109	49	12	126	82	44	0.08
11-Jul-04	14:00:00	37	191	126	65	35	124	75	49	0.14
11-Jul-04	15:00:00	56	97	60	37	40	234	127	108	0.12
11-Jul-04	16:00:00		104	72	32	27	110	73	37	0.08
11-Jul-04	17:00:00	23	126	92	33	8	99	76	22	0.08
11-Jul-04	18:00:00	23	149	113	36	16	120	94	26	0.1
11-Jul-04	19:00:00	20	118	90	28	23	166	132	34	0.14
11-Jul-04	20:00:00	26	166	137	30	23	130	83	47	0.2
11-Jul-04	21:00:00	27	198	168	30	37	140	109	31	0.1
11-Jul-04	22:00:00	33	84	62	23	57	78	58	20	0.16
11-Jul-04	23:00:00	25	75	49	26	42	277	178	99	0.14
12-Jul-04	0:00:00	20	90	66	24	8	307	223	84	0.14
12-Jul-04	1:00:00	20	189	153	37	23	141	106	35	0.16
12-Jul-04	2:00:00	23	105	74	30	28	248	205	43	0.12
12-Jul-04	3:00:00	14	49	31	18	28	228	169	59	0.1
12-Jul-04	4:00:00	31	171	133	38	14	116	79	37	0.16

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Jul-04	5:00:00	9	64	45	20	26	198	165	33	0.28
12-Jul-04	6:00:00	16	144	110	34	24	240	176	64	0.26
12-Jul-04	7:00:00	27	91	61	31	24	228	164	65	0.16
12-Jul-04	8:00:00	13	73	47	26	16	69	47	21	0.1
12-Jul-04	9:00:00	5	144	102	42		57	40	17	0.1
12-Jul-04	10:00:00	15	75	48	27	4	85	55	30	0.07
12-Jul-04	11:00:00	23	211	152	59	10	94	78	16	
12-Jul-04	12:00:00	27	158	99	60	16	43	24	18	
12-Jul-04	13:00:00	27	220	149	71	13	14	5	9	
12-Jul-04	14:00:00	19	44	22	22	15	16	5	11	
12-Jul-04	15:00:00	33	44	23	22	30	27	11	16	
12-Jul-04	16:00:00	88	91	50	41	61	146	79	67	
12-Jul-04	17:00:00	45	65	39	26	67	155	91	64	
12-Jul-04	18:00:00	21	71	44	27	51	72	36	36	
12-Jul-04	19:00:00		28	7	21		34	17	17	
12-Jul-04	20:00:00	18	90	38	52	15	53	33	20	
12-Jul-04	21:00:00	20	91	63	28	21	63	43	20	
12-Jul-04	22:00:00		71	36	34	7	70	51	19	
12-Jul-04	23:00:00	24	92	63	29	9	115	89	26	
13-Jul-04	0:00:00	27	138	94	44	14	120	95	26	
13-Jul-04	1:00:00	26	78	50	28	13	183	144	39	
13-Jul-04	2:00:00	26	392	254	138	31	116	92	25	
13-Jul-04	3:00:00	21	224	178	46	28	115	95	20	
13-Jul-04	4:00:00	34	301	227	74	26	159	139	20	
13-Jul-04	5:00:00	34	436	344	92	32	194	171	24	
13-Jul-04	6:00:00	25	268	232	36	25	180	162	18	
13-Jul-04	7:00:00	70	252	215	36	39	235	197	38	
13-Jul-04	8:00:00	49	184	147	37	34	175	145	30	
13-Jul-04	9:00:00	5	117	84	33		94	70	24	
13-Jul-04	10:00:00	16	132	90	42	4	76	50	27	
13-Jul-04	11:00:00	28	103	64	39	31	58	33	25	
13-Jul-04	12:00:00	28	64	41	24	22	96	59	37	
13-Jul-04	13:00:00	26	95	58	36	27	85	50	35	
13-Jul-04	14:00:00	46	137	90	47	27	129	78	51	
13-Jul-04	15:00:00	53	119	73	46	43	113	66	48	
13-Jul-04	16:00:00	39	128	83	45	32	136	89	48	
13-Jul-04	17:00:00	49	129	83	46	48	101	61	41	
13-Jul-04	18:00:00	36	143	90	53	39	60	32	27	
13-Jul-04	19:00:00	31	179	117	63	37	96	57	40	
13-Jul-04	20:00:00	78	196	147	49	55	184	140	44	
13-Jul-04	21:00:00	53	305	260	45	80	234	199	36	
13-Jul-04	22:00:00	54	325	273	52	53	278	217	61	
13-Jul-04	23:00:00	45	261	210	51	48	228	177	51	
14-Jul-04	0:00:00	13	273	190	83	15	360	260	100	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Jul-04	1:00:00	9	161	107	54	21	420	311	110	
14-Jul-04	2:00:00	18	123	76	47	29	547	426	121	
14-Jul-04	3:00:00	19	238	171	67	39	429	329	100	
14-Jul-04	4:00:00	17	283	227	56	33	409	311	97	
14-Jul-04	5:00:00	27	338	247	91	21	514	362	152	
14-Jul-04	6:00:00	20	415	290	125	32	308	241	67	
14-Jul-04	7:00:00	28	252	181	71	28	307	244	63	
14-Jul-04	8:00:00	17	212	159	53	27	368	287	81	
14-Jul-04	9:00:00	35	329	220	108	26	122	87	34	
14-Jul-04	10:00:00	8	208	133	76	21	254	183	71	
14-Jul-04	11:00:00	9	152	106	46	3	82	57	25	
14-Jul-04	12:00:00	20	165	109	56	9	91	63	27	
14-Jul-04	13:00:00	21	180	130	50	16	91	61	29	
14-Jul-04	14:00:00	19	147	100	47	18	69	43	26	
14-Jul-04	15:00:00	32	166	100	66	21	31	16	15	
14-Jul-04	16:00:00	26	229	167	63	18	51	29	22	
14-Jul-04	17:00:00	23	222	150	72	18	108	63	45	
14-Jul-04	18:00:00	27	343	240	103	24	42	23	19	
14-Jul-04	19:00:00	23	229	157	73	22	51	26	25	
14-Jul-04	20:00:00	27	193	128	66	28	83	52	31	
14-Jul-04	21:00:00	27	164	115	49	28	203	141	63	
14-Jul-04	22:00:00	27	262	194	67	32	183	136	47	
14-Jul-04	23:00:00	34	300	209	90	32	241	174	66	
15-Jul-04	0:00:00	38	516	415	101	37	460	329	130	
15-Jul-04	1:00:00	54	629	503	126	53	568	407	161	
15-Jul-04	2:00:00	51	488	384	104	29	226	183	43	
15-Jul-04	3:00:00	44	382	317	64	35	337	266	71	
15-Jul-04	4:00:00	33	399	326	73	33	258	216	42	
15-Jul-04	5:00:00	40	438	343	95	30	209	170	38	
15-Jul-04	6:00:00	59	873	600	272	25	269	215	54	
15-Jul-04	7:00:00	39	172	131	41	28	113	83	30	
15-Jul-04	8:00:00	14	153	118	36	15	97	73	24	
15-Jul-04	9:00:00	14	115	77	38	12	107	51	55	
15-Jul-04	10:00:00	13	83	52	32	15	20	10	10	
15-Jul-04	11:00:00	24	128	87	41	11	4	0	4	
15-Jul-04	12:00:00	19	85	50	35	12	20	4	16	
15-Jul-04	13:00:00	24	323	231	92	13	57	26	32	
15-Jul-04	14:00:00	26	106	71	34	17	103	62	40	
15-Jul-04	15:00:00	24	138	89	49	16	94	41	53	
15-Jul-04	16:00:00	31	240	161	79	17	80	43	37	
15-Jul-04	17:00:00	28	91	56	36	23	42	25	17	
15-Jul-04	18:00:00	32	488	321	167	21	31	16	15	
15-Jul-04	19:00:00	42	474	309	165	18	43	19	24	
15-Jul-04	20:00:00	31	475	323	152	27	68	39	29	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
15-Jul-04	21:00:00	35	334	252	82	32	69	43	26	
15-Jul-04	22:00:00	42	242	198	44	29	174	132	43	
15-Jul-04	23:00:00	37	471	403	67	35	169	138	30	
16-Jul-04	0:00:00	47	848	684	164	26	206	180	25	
16-Jul-04	1:00:00	49	532	452	79	32	230	204	25	
16-Jul-04	2:00:00	49	524	452	72	37	242	215	27	
16-Jul-04	3:00:00	54	663	550	113	31	233	219	14	
16-Jul-04	4:00:00	47	479	417	63	28	237	224	13	
16-Jul-04	5:00:00	41	374	328	46	31	248	242	6	
16-Jul-04	6:00:00	35	283	255	28	29	294	283	10	
16-Jul-04	7:00:00	38	267	233	34	40	287	247	40	
16-Jul-04	8:00:00	27	155	124	31	36	108	90	19	
16-Jul-04	9:00:00	21	85	55	30	21	111	71	40	
16-Jul-04	10:00:00	20	60	34	26	19	73	49	24	
16-Jul-04	11:00:00	22	52	27	26	28	24	10	14	
16-Jul-04	12:00:00	24	64	35	28	17	24	11	13	
16-Jul-04	13:00:00	50	112	55	57	35	51	24	27	
16-Jul-04	14:00:00	31	117	69	48	25	34	17	17	
16-Jul-04	15:00:00	39	97	53	44	26	94	61	33	
16-Jul-04	16:00:00	37	190	144	46	38	72	42	30	
16-Jul-04	17:00:00	47	92	50	41	31	96	74	22	
16-Jul-04	18:00:00	33	94	52	42	30	73	36	37	
16-Jul-04	19:00:00	34	76	42	34	29	73	36	37	
16-Jul-04	20:00:00	30	42	16	26	34	69	31	38	
16-Jul-04	21:00:00	24	43	18	24	27	58	29	29	
16-Jul-04	22:00:00	34	123	78	45	41	111	73	38	
16-Jul-04	23:00:00	48	302	237	65	44	123	89	34	
17-Jul-04	0:00:00	34	117	78	39	38	179	132	46	
17-Jul-04	1:00:00	49	299	234	64	43	147	124	23	
17-Jul-04	2:00:00	48	294	242	52	43	117	93	24	
17-Jul-04	3:00:00	51	353	271	81	41	136	113	23	
17-Jul-04	4:00:00	50	284	231	53	40	44	27	17	
17-Jul-04	5:00:00	49	406	338	67	35	134	115	19	
17-Jul-04	6:00:00	58	329	281	48	49	129	114	15	
17-Jul-04	7:00:00	50	205	164	41	35	125	100	26	
17-Jul-04	8:00:00	35	104	69	34	29	99	74	25	
17-Jul-04	9:00:00	40	48	29	18	42	84	56	28	
17-Jul-04	10:00:00	28	30	16	15	35	18	10	8	
17-Jul-04	11:00:00	21	11	3	7	21	32	16	16	
17-Jul-04	12:00:00	19	41	22	18	28	43	24	19	
17-Jul-04	13:00:00	40	67	39	28	39	33	16	17	
17-Jul-04	14:00:00	34	80	43	37	28	65	37	29	
17-Jul-04	15:00:00	44	57	29	28	49	79	43	37	
17-Jul-04	16:00:00	19	206	133	73	29	21	9	12	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
17-Jul-04	17:00:00	10	122	70	52	72	33	12	21	
17-Jul-04	18:00:00	12	133	88	45		15	3	12	
17-Jul-04	19:00:00	9	61	33	29		177	116	62	
17-Jul-04	20:00:00	26	126	82	44	25	160	100	60	
17-Jul-04	21:00:00	32	337	267	69	23	153	107	46	
17-Jul-04	22:00:00	56	372	286	86	13	206	134	72	
17-Jul-04	23:00:00	49	417	319	99	27	163	105	58	
18-Jul-04	0:00:00	67	461	357	104	17	143	107	37	
18-Jul-04	1:00:00	54	285	222	63	30	121	90	31	
18-Jul-04	2:00:00	33	361	284	77	24	47	33	14	
18-Jul-04	3:00:00	69	492	383	109	23	132	99	34	
18-Jul-04	4:00:00	68	402	311	91	31	117	77	40	
18-Jul-04	5:00:00	46	220	159	61	21	71	46	25	
18-Jul-04	6:00:00	45	201	151	50	22	118	80	38	
18-Jul-04	7:00:00	19	98	66	32	21	88	60	28	
18-Jul-04	8:00:00	16	53	34	20	23	22	13	9	
18-Jul-04	9:00:00	13	130	82	47	10	20	11	9	
18-Jul-04	10:00:00	37	749	578	171	16	17	9	8	
18-Jul-04	11:00:00	40	587	447	140	24	37	22	15	
18-Jul-04	12:00:00	43	287	203	84	7	22	9	13	
18-Jul-04	13:00:00	52	531	367	164	32				
18-Jul-04	14:00:00	58	417	306	111	25	15	7	7	
18-Jul-04	15:00:00	51	373	264	110	28				
18-Jul-04	16:00:00	60	499	360	140	29	19	9	10	
18-Jul-04	17:00:00	30	233	164	68	17	20	7	13	
18-Jul-04	18:00:00	46	436	313	123	22	24	8	16	
18-Jul-04	19:00:00	33	259	174	85	16	98	49	50	
18-Jul-04	20:00:00	38	159	110	49	31	74	42	31	
18-Jul-04	21:00:00	49	484	378	106	36	80	46	34	
18-Jul-04	22:00:00	58	399	303	96	26	64	33	31	
18-Jul-04	23:00:00	40	274	219	55	29	81	55	26	
19-Jul-04	0:00:00	40	336	290	46	28	191	170	21	
19-Jul-04	1:00:00	43	328	295	33	39	205	187	18	
19-Jul-04	2:00:00	47	278	239	39	34	164	145	20	
19-Jul-04	3:00:00	32	280	248	32	23	160	145	15	
19-Jul-04	4:00:00	45	306	271	35	37	177	163	14	
19-Jul-04	5:00:00	35	286	240	46	34	136	118	18	
19-Jul-04	6:00:00	37	306	254	51	25	105	96	9	
19-Jul-04	7:00:00	32	187	161	26	26	90	83	7	
19-Jul-04	8:00:00	31	158	136	22	25	148	135	13	
19-Jul-04	9:00:00	21	89	64	25	27	90	65	25	
19-Jul-04	10:00:00	34	26	11	15	48	40	24	16	
19-Jul-04	11:00:00	36	24	10	14	42				
19-Jul-04	12:00:00	48	23	7	16	43				



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
19-Jul-04	13:00:00	43	20	5	15	43	5	1	4	
19-Jul-04	14:00:00	54	38	18	21	42	13	3	9	
19-Jul-04	15:00:00	41	66	36	29	39				
19-Jul-04	16:00:00	48	119	67	52	45				
19-Jul-04	17:00:00	50	367	264	103	31				
19-Jul-04	18:00:00	53	588	434	154	64	19	3	16	
19-Jul-04	19:00:00	71	356	248	108	47	460	298	162	
19-Jul-04	20:00:00	72	331	249	82	86	70	34	36	
19-Jul-04	21:00:00	50	300	235	65	11	328	219	109	
19-Jul-04	22:00:00	47	300	239	61	36	64	37	26	
19-Jul-04	23:00:00	54	333	289	44		118	73	45	
20-Jul-04	0:00:00	50	279	229	50	22	87	63	24	
20-Jul-04	1:00:00	53	278	238	40	37	65	47	18	
20-Jul-04	2:00:00	45	259	214	45	30	68	51	17	
20-Jul-04	3:00:00	49	396	317	78	38	23	11	12	
20-Jul-04	4:00:00	52	483	377	106	36	37	24	13	
20-Jul-04	5:00:00	43	263	210	53	29	46	31	15	
20-Jul-04	6:00:00	62	283	239	44	30	46	34	12	
20-Jul-04	7:00:00	34	199	170	29	34	85	64	22	
20-Jul-04	8:00:00	59	232	202	30	36	170	154	16	
20-Jul-04	9:00:00	31	153	116	37	34	74	61	13	
20-Jul-04	10:00:00	35	105	64	42	33	188	128	60	
20-Jul-04	11:00:00	38	156	98	58	31	73	43	30	
20-Jul-04	12:00:00	37	124	67	57	24	28	9	19	
20-Jul-04	13:00:00	33	71	32	39	31	23	7	17	
20-Jul-04	14:00:00	35	56	22	34	23	51	18	33	
20-Jul-04	15:00:00	22	162	118	44	28	54	43	12	
20-Jul-04	16:00:00	32	224	121	103	27	71	47	24	
20-Jul-04	17:00:00	34	97	40	56	32	56	17	38	
20-Jul-04	18:00:00	31	214	125	88	25	24	3	21	
20-Jul-04	19:00:00	25	154	96	58	34	67	29	38	
20-Jul-04	20:00:00	43	222	158	64	34	146	84	61	
20-Jul-04	21:00:00	36	214	162	52	37	158	89	70	
20-Jul-04	22:00:00	51	264	216	48	37	293	216	78	
20-Jul-04	23:00:00	47	361	312	49	38	246	199	47	
21-Jul-04	0:00:00	53	302	257	45	46	180	142	39	
21-Jul-04	1:00:00	58	249	208	41	50	121	91	30	
21-Jul-04	2:00:00	57	252	223	30	38	165	134	31	
21-Jul-04	3:00:00	65	369	337	32	50	243	207	36	
21-Jul-04	4:00:00	52	533	444	89	50	148	130	18	
21-Jul-04	5:00:00	61	404	333	71	32	158	144	14	
21-Jul-04	6:00:00	67	382	319	64	40	206	195	12	
21-Jul-04	7:00:00	58	276	242	35	49	152	141	12	
21-Jul-04	8:00:00	43	242	212	31	35	130	119	11	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
21-Jul-04	9:00:00	32	143	115	28	31	338	271	66	
21-Jul-04	10:00:00	23	177	137	41	40	383	266	117	
21-Jul-04	11:00:00	35	112	66	45	30	404	245	159	
21-Jul-04	12:00:00	38	90	48	42	42	106	49	56	
21-Jul-04	13:00:00	36	67	28	39	30	224	153	70	
21-Jul-04	14:00:00	46	121	67	55	44	241	176	65	
21-Jul-04	15:00:00	45	146	80	66	40	37	12	25	
21-Jul-04	16:00:00	45	103	56	48	38	42	20	22	
21-Jul-04	17:00:00	46	175	103	72	39	80	37	43	
21-Jul-04	18:00:00	45	201	119	82	39	89	42	47	
21-Jul-04	19:00:00	43	235	144	91	53	68	29	39	
21-Jul-04	20:00:00	47	187	127	60	54	95	45	49	
21-Jul-04	21:00:00	37	300	215	85	50	146	95	51	
21-Jul-04	22:00:00	75	518	420	98	59	354	266	88	
21-Jul-04	23:00:00	69	596	494	102	66	815	608	207	
22-Jul-04	0:00:00		384	331	54	64	329	266	63	
22-Jul-04	1:00:00	65	358	302	56	55	264	222	42	
22-Jul-04	2:00:00	69	450	391	59	59	263	228	35	
22-Jul-04	3:00:00	61	217	170	47	56	348	292	56	
22-Jul-04	4:00:00	60	176	140	37	57	368	301	67	
22-Jul-04	5:00:00	49	119	91	29	56	325	244	81	
22-Jul-04	6:00:00	49	280	241	39	56	324	258	66	
22-Jul-04	7:00:00	46	223	182	41	50	149	122	27	
22-Jul-04	8:00:00	65	108	71	37	44	159	96	63	
22-Jul-04	9:00:00	93	182	112	70	44	110	57	53	
22-Jul-04	10:00:00	94	132	78	54	42	55	27	28	
22-Jul-04	11:00:00	96	78	39	39	45	40	15	25	
22-Jul-04	12:00:00	84	50	27	23		45	22	23	
22-Jul-04	13:00:00	102	118	71	47	55	78	40	38	
22-Jul-04	14:00:00	87	139	92	47	52	67	38	30	
22-Jul-04	15:00:00	91	120	75	45	50	79	45	34	
22-Jul-04	16:00:00	90	118	66	52	39	91	58	33	
22-Jul-04	17:00:00	104	107	65	41	57	139	93	46	
22-Jul-04	18:00:00	73	78	48	31	41	60	34	27	
22-Jul-04	19:00:00	83	122	75	47	51	102	65	36	
22-Jul-04	20:00:00	133	229	172	58	59	132	98	34	
22-Jul-04	21:00:00	122	283	210	73	54	186	150	36	
22-Jul-04	22:00:00	145	258	194	64	54	159	123	36	
22-Jul-04	23:00:00	112	246	151	95	1	95	61	35	
23-Jul-04	0:00:00	105	196	115	81	26	107	62	44	
23-Jul-04	1:00:00	134	83	53	30	30	185	129	56	
23-Jul-04	2:00:00	127	100	66	34	27	348	284	65	
23-Jul-04	3:00:00	144	173	129	44	35	117	73	44	
23-Jul-04	4:00:00	137	234	174	60	43	251	146	105	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Jul-04	5:00:00	136	95	62	33	32	163	114	49	
23-Jul-04	6:00:00	128	112	80	32	24	98	62	36	
23-Jul-04	7:00:00	121	182	156	26	21	134	98	35	
23-Jul-04	8:00:00	114	119	90	28	1	161	142	19	
23-Jul-04	9:00:00	105	145	102	43		47	30	17	
23-Jul-04	10:00:00	106	48	22	26		28	18	11	
23-Jul-04	11:00:00	116	63	35	27	4	24	11	14	
23-Jul-04	12:00:00	121	152	87	64	8	34	17	17	
23-Jul-04	13:00:00	122	55	31	24	12	4	1	3	
23-Jul-04	14:00:00	119	127	82	45	11	20	7	13	
23-Jul-04	15:00:00	120	90	57	33	20	45	23	22	
23-Jul-04	16:00:00	127	79	47	32	14	37	22	15	
23-Jul-04	17:00:00	122	83	51	31	17	31	15	16	
23-Jul-04	18:00:00	132	184	119	64	17				
23-Jul-04	19:00:00	127	249	158	91	19	10	1	8	
23-Jul-04	20:00:00	124	172	117	55	28	65	34	31	
23-Jul-04	21:00:00	94	382	284	98	40	76	40	35	
23-Jul-04	22:00:00	69	282	220	62	27	29	15	14	
23-Jul-04	23:00:00	43	256	201	55	21	61	39	21	
24-Jul-04	0:00:00	51	474	383	91	36	151	109	42	
24-Jul-04	1:00:00	43	439	339	100	39	121	76	45	
24-Jul-04	2:00:00	53	445	336	109	42	157	82	76	
24-Jul-04	3:00:00	56	483	376	107	39	109	60	49	
24-Jul-04	4:00:00	52	584	434	150	44	163	87	75	
24-Jul-04	5:00:00	72	588	464	125	46	154	82	72	
24-Jul-04	6:00:00	52	494	386	107	43	67	23	44	
24-Jul-04	7:00:00	45	366	264	102	34	84	46	38	0.09
24-Jul-04	8:00:00	29	278	202	76	10	7	1	5	0.08
24-Jul-04	9:00:00	20	344	240	104		4	1	4	0.09
24-Jul-04	10:00:00	35	376	271	105	25	9	3	7	0.09
24-Jul-04	11:00:00	19	130	89	41	15	18	5	13	0.08
24-Jul-04	12:00:00	26	97	58	39	26				0.07
24-Jul-04	13:00:00	32	79	43	35	30				0.06
24-Jul-04	14:00:00	30	72	42	29	10	6	1	5	0.07
24-Jul-04	15:00:00	27	73	38	35	19	22	7	14	0.07
24-Jul-04	16:00:00	51	300	218	82	30	71	39	32	0.08
24-Jul-04	17:00:00	45	152	88	63	35	28	11	17	0.07
24-Jul-04	18:00:00	61	177	117	60	61				0.11
24-Jul-04	19:00:00	68	131	85	46	73	13	1	12	0.11
24-Jul-04	20:00:00	61	120	76	45	30				0.11
24-Jul-04	21:00:00	59	219	148	72	36	23	7	16	0.11
24-Jul-04	22:00:00	50	866	597	269	25	53	29	24	0.1
24-Jul-04	23:00:00	39	1176	853	324	32	41	13	28	0.1
25-Jul-04	0:00:00	53	1281	928	353	26	18	3	15	0.1

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Jul-04	1:00:00	71	1074	789	285	41	65	38	27	0.09
25-Jul-04	2:00:00	62	1171	850	321	53	33	9	24	0.09
25-Jul-04	3:00:00	71	1288	862	427	40	18	7	12	0.08
25-Jul-04	4:00:00	54	1200	850	350	42	29	12	17	0.15
25-Jul-04	5:00:00	53	763	466	297	39	164	108	56	0.15
25-Jul-04	6:00:00	37	696	510	186	45	112	80	32	0.16
25-Jul-04	7:00:00	46	1300	895	405	37	197	149	48	0.17
25-Jul-04	8:00:00	29	788	566	222	27	179	128	51	0.16
25-Jul-04	9:00:00	57	754	515	240		102	67	35	0.1
25-Jul-04	10:00:00	43	203	123	80	15	67	40	27	0.07
25-Jul-04	11:00:00	38	105	58	47	31	40	19	20	0.07
25-Jul-04	12:00:00	38	91	55	35	30	68	42	26	0.08
25-Jul-04	13:00:00	48	151	97	53	46	81	44	37	0.07
25-Jul-04	14:00:00	46	55	32	22	42	50	26	23	0.08
25-Jul-04	15:00:00	40	233	159	74	86	58	36	22	0.08
25-Jul-04	16:00:00	99	237	164	73	31	25	12	14	0.08
25-Jul-04	17:00:00	32	113	72	41	7	43	23	20	0.05
25-Jul-04	18:00:00	81	77	45	31	46	47	28	19	0.06
25-Jul-04	19:00:00	41	29	10	18	169	63	33	30	0.05
25-Jul-04	20:00:00	5	121	85	37		121	74	48	0.05
25-Jul-04	21:00:00	24	180	119	60		38	11	27	0.05
25-Jul-04	22:00:00	2	280	198	82	2	39	13	27	0.06
25-Jul-04	23:00:00	13	289	212	76		38	14	24	0.06
26-Jul-04	0:00:00	14	124	92	33	9	155	104	51	0.12
26-Jul-04	1:00:00	14	103	72	31	20	122	76	47	0.11
26-Jul-04	2:00:00	21	119	85	34	25	102	65	36	0.09
26-Jul-04	3:00:00	33	151	99	51	25	65	39	26	0.08
26-Jul-04	4:00:00	20	99	65	34	18	66	37	28	0.07
26-Jul-04	5:00:00	20	76	50	26	22	50	29	21	0.12
26-Jul-04	6:00:00	27	123	87	36	21	128	92	36	0.11
26-Jul-04	7:00:00	25	45	25	20	22	47	21	26	0.06
26-Jul-04	8:00:00	6	23	9	14	17	15	6	9	0.05
26-Jul-04	9:00:00	12	31	14	18	12	9	2	7	0.1
26-Jul-04	10:00:00	12	73	39	34	4	41	23	18	0.12
26-Jul-04	11:00:00	15	47	27	20	15	38	17	21	0.12
26-Jul-04	12:00:00	20	64	37	26	5	33	16	18	0.14
26-Jul-04	13:00:00	31	111	66	45	32	71	43	29	0.12
26-Jul-04	14:00:00	33	84	48	36	26	58	33	26	0.13
26-Jul-04	15:00:00	33	99	54	45	35	82	42	40	0.15
26-Jul-04	16:00:00	38	130	82	49	38	72	37	35	0.16
26-Jul-04	17:00:00	56	166	91	75	51	21	6	15	0.14
26-Jul-04	18:00:00	55	129	78	51	54				0.13
26-Jul-04	19:00:00	40	81	48	34	21	12	1	10	0.16
26-Jul-04	20:00:00	43	120	80	40	139	99	60	38	0.13

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
26-Jul-04	21:00:00	20	119	77	42	24	172	100	72	0.18
26-Jul-04	22:00:00	19	148	92	56		233	157	76	0.2
26-Jul-04	23:00:00	15	103	67	36	4	285	219	66	0.16
27-Jul-04	0:00:00	7	71	45	26	18	480	342	137	0.16
27-Jul-04	1:00:00	18	84	56	27	30	348	242	106	0.13
27-Jul-04	2:00:00	19	154	117	37	26	144	92	52	0.18
27-Jul-04	3:00:00	37	191	149	43	30	258	194	64	0.14
27-Jul-04	4:00:00	16	160	125	35	20	300	228	72	0.15
27-Jul-04	5:00:00	17	129	94	35	18	258	168	90	0.15
27-Jul-04	6:00:00	13	111	80	31	31	240	188	52	0.18
27-Jul-04	7:00:00	24	160	124	36	17	332	261	71	0.15
27-Jul-04	8:00:00	11	104	76	28	29	231	182	49	0.11
27-Jul-04	9:00:00	20	155	122	32	15	54	35	19	0.08
27-Jul-04	10:00:00	29	106	79	26	35	56	40	16	0.08
27-Jul-04	11:00:00	25	91	67	24	29	35	23	12	0.08
27-Jul-04	12:00:00	11	97	70	27	23	55	41	14	0.07
27-Jul-04	13:00:00	5	62	42	20		42	32	10	0.07
27-Jul-04	14:00:00	16	116	81	35	6	32	17	15	0.08
27-Jul-04	15:00:00		98	63	34	14	98	67	32	0.1
27-Jul-04	16:00:00	24	94	59	35	17	165	104	61	0.09
27-Jul-04	17:00:00	23	47	28	19	25	83	42	41	0.13
27-Jul-04	18:00:00	29	54	27	27	14	24	12	13	0.1
27-Jul-04	19:00:00	17	30	13	17	28	34	20	14	0.14
27-Jul-04	20:00:00	30	44	25	19	37	57	36	21	0.29
27-Jul-04	21:00:00	33	115	86	29	35	358	240	117	0.44
27-Jul-04	22:00:00	28	252	200	52	21	375	290	85	0.28
27-Jul-04	23:00:00	12	219	167	52	6	641	456	185	0.27
28-Jul-04	0:00:00	30	220	170	50	35	716	437	279	0.27
28-Jul-04	1:00:00	36	246	185	61	38	705	483	222	0.28
28-Jul-04	2:00:00	29	234	172	62	52	716	462	254	0.28
28-Jul-04	3:00:00	34	255	181	73	43	684	480	204	0.31
28-Jul-04	4:00:00	30	246	181	64	36	717	472	245	0.27
28-Jul-04	5:00:00	35	306	234	72	42	559	392	167	0.38
28-Jul-04	6:00:00	31	200	150	50	45	615	443	171	0.17
28-Jul-04	7:00:00	28	198	150	48	31	203	135	68	0.11
28-Jul-04	8:00:00	32	252	175	77	14	89	51	38	0.07
28-Jul-04	9:00:00	28	242	155	87	23	37	15	22	0.05
28-Jul-04	10:00:00	22	213	138	75	4	20	8	12	0.04
28-Jul-04	11:00:00	33	271	168	103	9	53	26	27	0.04
28-Jul-04	12:00:00	26	182	119	63	19	13	4	9	0.08
28-Jul-04	13:00:00	29	212	133	79	14	90	46	44	0.04
28-Jul-04	14:00:00	29	219	145	75	11	22	8	14	0.05
28-Jul-04	15:00:00	24	267	218	48	12	154	129	25	0.08
28-Jul-04	16:00:00	34	320	215	105	25	147	91	55	0.05

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
28-Jul-04	17:00:00	40	348	218	130	27	78	45	33	0.05
28-Jul-04	18:00:00	30	505	358	146	12	50	19	30	0.06
28-Jul-04	19:00:00	39	457	323	133	21	41	13	28	0.08
28-Jul-04	20:00:00	25	211	138	73	18	64	29	34	0.1
28-Jul-04	21:00:00	35	509	387	123	25	64	27	37	0.12
28-Jul-04	22:00:00	48	411	319	93	27	149	86	63	0.11
28-Jul-04	23:00:00	45	411	309	102	34	141	88	53	0.1
29-Jul-04	0:00:00	36	494	396	98	22	76	38	38	0.1
29-Jul-04	1:00:00	44	471	361	110	33	92	55	37	0.09
29-Jul-04	2:00:00	45	451	332	119	28	90	54	37	0.09
29-Jul-04	3:00:00	51	472	374	98	29	79	44	35	0.08
29-Jul-04	4:00:00	35	399	295	104	30	73	39	34	0.11
29-Jul-04	5:00:00	41	492	415	77	23	106	70	36	0.14
29-Jul-04	6:00:00	26	424	327	96	25	72	40	31	0.25
29-Jul-04	7:00:00	42	514	416	98	22	97	69	29	0.15
29-Jul-04	8:00:00	36	450	347	103	21	56	32	24	0.1
29-Jul-04	9:00:00	47	418	288	131	17	27	13	14	0.11
29-Jul-04	10:00:00	40	152	109	42	27	13	3	10	0.14
29-Jul-04	11:00:00	30	131	81	50	17	23	9	14	0.16
29-Jul-04	12:00:00	35	85	44	41	31	43	24	19	0.16
29-Jul-04	13:00:00	32	74	39	35	24	58	25	34	0.12
29-Jul-04	14:00:00	29	51	28	23	21	26	11	15	0.09
29-Jul-04	15:00:00	26	89	53	35	32	28	9	19	0.16
29-Jul-04	16:00:00	74	147	95	51	33	105	57	48	0.11
29-Jul-04	17:00:00	33	32	12	20	42	19	4	15	0.14
29-Jul-04	18:00:00	45	57	34	23	16	63	34	30	0.12
29-Jul-04	19:00:00	7	45	22	23	32	45	21	24	0.15
29-Jul-04	20:00:00	28	70	42	28	36	19	6	13	0.17
29-Jul-04	21:00:00	29	115	77	37	30	19	3	16	0.23
29-Jul-04	22:00:00	1	60	40	21	17	23	12	11	0.21
29-Jul-04	23:00:00	20	220	169	51	17	76	47	28	0.21
30-Jul-04	0:00:00	19	256	201	54	29	53	32	21	0.23
30-Jul-04	1:00:00	40	332	266	65	38	117	88	29	0.23
30-Jul-04	2:00:00	35	329	266	63	32	130	101	30	0.24
30-Jul-04	3:00:00	36	288	240	48	36	112	94	18	0.24
30-Jul-04	4:00:00	40	265	209	55	29	90	79	11	0.24
30-Jul-04	5:00:00	31	180	148	32	29	96	81	15	0.3
30-Jul-04	6:00:00	29	244	201	43	21	138	123	14	0.72
30-Jul-04	7:00:00	18	227	200	28	23	142	137	5	0.68
30-Jul-04	8:00:00	38	219	199	20	20	213	193	20	0.27
30-Jul-04	9:00:00	28	67	49	18	6	135	100	35	0.14
30-Jul-04	10:00:00	5	42	27	15		94	42	52	0.06
30-Jul-04	11:00:00	13	21	12	9	4	19	4	15	0.04
30-Jul-04	12:00:00	5	29	19	10		10	8	1	0.04

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
30-Jul-04	13:00:00	15	55	41	14	12	20	13	6	0.05
30-Jul-04	14:00:00	5	75	54	22	5	26	18	8	0.05
30-Jul-04	15:00:00	16	65	45	19	12	13	9	4	0.07
30-Jul-04	16:00:00	13	100	71	30	7	46	32	14	0.07
30-Jul-04	17:00:00	28	568	405	162	3	96	72	24	0.12
30-Jul-04	18:00:00	27	224	156	69	15	159	105	54	0.09
30-Jul-04	19:00:00	11	41	27	14	14	64	44	20	0.1
30-Jul-04	20:00:00		34	20	14	16	88	60	28	0.12
30-Jul-04	21:00:00	22	54	35	19	17	177	122	55	0.3
30-Jul-04	22:00:00	23	66	46	20	32	854	620	235	0.25
30-Jul-04	23:00:00	2	83	58	25	9	622	471	151	0.25
31-Jul-04	0:00:00	15	177	138	39	16	153	109	45	0.11
31-Jul-04	1:00:00	26	126	93	33	21	242	179	63	0.23
31-Jul-04	2:00:00	19	309	259	50	9	526	435	91	0.52
31-Jul-04	3:00:00	30	205	178	27	44	1008	823	185	0.2
31-Jul-04	4:00:00	27	292	263	30	11	207	178	29	0.19
31-Jul-04	5:00:00	33	352	328	24	21	189	183	7	0.19
31-Jul-04	6:00:00	25	276	251	25	18	213	200	13	0.31
31-Jul-04	7:00:00	28	403	352	51	20	205	196	9	0.14
31-Jul-04	8:00:00	24	302	251	51	12	113	93	19	0.1
31-Jul-04	9:00:00	9	107	80	27	21	85	62	23	0.09
31-Jul-04	10:00:00	14	112	78	34	12	74	54	20	0.08
31-Jul-04	11:00:00	29	84	61	23	25	125	93	32	0.07
31-Jul-04	12:00:00	20				23	114	60	54	0.16
31-Jul-04	13:00:00	68				49				0.14
31-Jul-04	14:00:00	25	98	64	34	33	125	93	32	0.09
31-Jul-04	15:00:00	6	55	34	21		29	17	12	0.08
31-Jul-04	16:00:00	2	19	9	9	17	31	18	12	0.12
31-Jul-04	17:00:00	5	25	13	12		46	26	19	0.2
31-Jul-04	18:00:00	8	53	35	18	37	105	64	41	0.19
31-Jul-04	19:00:00	10	196	146	50	7	113	76	36	0.25
31-Jul-04	20:00:00	28	256	204	53	29	143	93	50	0.14
31-Jul-04	21:00:00	28	354	274	80	52	42	25	16	0.2
31-Jul-04	22:00:00	30	309	232	77	27	51	32	19	0.24
31-Jul-04	23:00:00	22	179	141	37	27	108	80	28	0.24
1-Aug-04	0:00:00	21	75	56	20	31	177	126	52	0.24
1-Aug-04	1:00:00	38	231	183	48	30	116	84	31	0.44
1-Aug-04	2:00:00	30	436	341	95	48	519	363	156	0.38
1-Aug-04	3:00:00	38	510	409	100	36	134	93	41	0.18
1-Aug-04	4:00:00	34	504	415	90	39	56	37	19	0.15
1-Aug-04	5:00:00	44	602	481	121	32	59	37	21	0.11
1-Aug-04	6:00:00	48	561	463	98	26	38	21	17	0.2
1-Aug-04	7:00:00	48	546	420	126	10	95	70	25	0.17
1-Aug-04	8:00:00	43	397	307	90	31	108	72	35	0.18

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
1-Aug-04	9:00:00	19	172	134	38	10	142	71	71	0.14
1-Aug-04	10:00:00	9	165	123	42		54	30	24	0.13
1-Aug-04	11:00:00	21	231	164	67	22	64	42	22	0.11
1-Aug-04	12:00:00	16	142	93	49	11	35	15	20	0.09
1-Aug-04	13:00:00	18	65	36	28	19	78	52	27	0.1
1-Aug-04	14:00:00	23	118	75	43	11	62	28	34	0.08
1-Aug-04	15:00:00	21	135	99	36	18				
1-Aug-04	16:00:00	26	240	173	67	19	164	131	33	
1-Aug-04	17:00:00	44	220	149	71	33	26	8	18	
1-Aug-04	18:00:00	37	271	192	78	24	123	84	39	
1-Aug-04	19:00:00	30	300	211	89	18	46	24	23	
1-Aug-04	20:00:00	44	504	370	135	37	79	46	32	
1-Aug-04	21:00:00	66	246	180	66	71	178	126	53	
1-Aug-04	22:00:00		191	158	33	119	83	54	29	
1-Aug-04	23:00:00	52	280	228	52	46	31	14	18	
2-Aug-04	0:00:00	56	343	260	82	57	54	27	27	
2-Aug-04	1:00:00	119	329	259	70	69	31	15	16	
2-Aug-04	2:00:00	95	374	300	74	63	17	3	14	
2-Aug-04	3:00:00	70	382	294	89	70	14	1	13	
2-Aug-04	4:00:00	62	220	176	43	63	39	22	17	
2-Aug-04	5:00:00	50	265	218	47	62	59	44	15	
2-Aug-04	6:00:00	49	230	183	47	61	63	50	12	
2-Aug-04	7:00:00	64	265	184	81	58	43	34	10	
2-Aug-04	8:00:00	52	281	200	81	31	16	9	6	
2-Aug-04	9:00:00	34	322	221	102					
2-Aug-04	10:00:00	40	87	55	32	12				
2-Aug-04	11:00:00	33	77	46	31	5				
2-Aug-04	12:00:00	24	35	15	20	18				
2-Aug-04	13:00:00	22	89	51	39	27	9	2	7	
2-Aug-04	14:00:00	29	75	37	39	8				
2-Aug-04	15:00:00	26	86	55	32	23	22	11	10	
2-Aug-04	16:00:00	31	155	107	48	14	31	14	18	
2-Aug-04	17:00:00	14	68	39	29	28	48	24	24	
2-Aug-04	18:00:00	30	107	63	44	25	28	13	15	
2-Aug-04	19:00:00	40	205	142	62	46	18	5	12	
2-Aug-04	20:00:00	35	100	60	40	25	33	11	22	
2-Aug-04	21:00:00	39	156	115	41	27	37	10	27	
2-Aug-04	22:00:00	32	161	120	41	45	105	63	42	
2-Aug-04	23:00:00	50	174	140	34	48	127	94	33	
3-Aug-04	0:00:00	58	222	172	50	59	115	78	38	
3-Aug-04	1:00:00	63	213	161	52	60	111	68	43	
3-Aug-04	2:00:00	66	190	147	43	60	94	62	32	
3-Aug-04	3:00:00	65	214	170	44	72	91	56	34	
3-Aug-04	4:00:00	68	320	282	39	79	378	300	78	



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
3-Aug-04	5:00:00	63	339	294	45	73	157	127	30	
3-Aug-04	6:00:00	43	190	161	29	46	76	61	15	
3-Aug-04	7:00:00	39	289	240	48	53	150	135	15	
3-Aug-04	8:00:00	68	133	106	27	42	87	77	10	
3-Aug-04	9:00:00	40	131	93	38		61	42	19	
3-Aug-04	10:00:00	48	76	47	30	42	158	86	72	
3-Aug-04	11:00:00	49	89	50	39	40	26	10	16	
3-Aug-04	12:00:00	55	151	99	52	42	18	5	12	
3-Aug-04	13:00:00	67	393	275	117	51	30	11	19	
3-Aug-04	14:00:00	55	379	242	138	31	24	9	15	
3-Aug-04	15:00:00	45	116	65	52	34	40	19	21	
3-Aug-04	16:00:00	34	98	55	43	39	16	5	12	
3-Aug-04	17:00:00	53	152	77	75	48	22	9	12	
3-Aug-04	18:00:00	50	189	122	67	42	267	188	79	
3-Aug-04	19:00:00	57	200	120	80	53	286	167	119	
3-Aug-04	20:00:00	86	243	169	74	68	277	167	110	
3-Aug-04	21:00:00	63	270	218	52	65	98	61	37	
3-Aug-04	22:00:00	69	410	358	52	58	338	283	56	
3-Aug-04	23:00:00	64	379	332	47	64	275	225	50	
4-Aug-04	0:00:00	65	437	359	78	38	429	323	106	
4-Aug-04	1:00:00	84	446	395	52	72	384	331	53	
4-Aug-04	2:00:00	59	546	467	79	66	324	254	70	
4-Aug-04	3:00:00	69	444	363	82	53	216	183	33	
4-Aug-04	4:00:00		431	389	42	50	689	554	135	
4-Aug-04	5:00:00	80	457	399	58	40	238	203	35	0.35
4-Aug-04	6:00:00	61	397	351	46		281	251	30	0.62
4-Aug-04	7:00:00	59	443	377	66	60	185	162	22	0.33
4-Aug-04	8:00:00	62	345	290	54	62	150	134	16	0.15
4-Aug-04	9:00:00	54	200	143	57	39	37	26	11	0.12
4-Aug-04	10:00:00	52	116	74	42	34	34	19	15	0.14
4-Aug-04	11:00:00	39	84	50	34	34	93	55	37	0.12
4-Aug-04	12:00:00	31	76	40	36	30	90	43	47	0.09
4-Aug-04	13:00:00	41	76	42	35	35	47	20	27	0.09
4-Aug-04	14:00:00	36	90	48	42	32	119	72	47	0.08
4-Aug-04	15:00:00	29	98	55	43	29	55	26	29	0.1
4-Aug-04	16:00:00	44	121	77	44	35	92	56	36	0.1
4-Aug-04	17:00:00	36	151	101	50	41	106	65	41	0.12
4-Aug-04	18:00:00	46	134	87	47	44	160	111	49	0.24
4-Aug-04	19:00:00	53	196	140	56	50	236	148	88	0.4
4-Aug-04	20:00:00	64	320	253	67	67	417	288	128	1.08
4-Aug-04	21:00:00	69	289	245	44	99	957	687	270	1.06
4-Aug-04	22:00:00	31	321	246	75	63	1092	761	331	0.63
4-Aug-04	23:00:00	15	218	150	68	58	662	462	200	0.45
5-Aug-04	0:00:00	21	81	51	30	33	393	319	74	0.26

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
5-Aug-04	1:00:00	18	43	22	22	41	390	278	112	0.3
5-Aug-04	2:00:00	40	209	156	53	42	521	351	169	0.18
5-Aug-04	3:00:00	48	347	233	114	47	198	120	79	0.23
5-Aug-04	4:00:00	37	225	173	52	39	408	292	117	0.38
5-Aug-04	5:00:00	32	219	166	53	50	625	460	164	0.34
5-Aug-04	6:00:00	41	204	143	61	49	469	366	103	0.26
5-Aug-04	7:00:00	45	178	123	55	50	246	175	71	0.25
5-Aug-04	8:00:00	38	103	71	32	36	261	201	60	0.28
5-Aug-04	9:00:00	40	367	263	104	34	391	274	117	0.26
5-Aug-04	10:00:00	46	232	179	53	52	241	160	81	0.21
5-Aug-04	11:00:00	33	225	189	36	44	142	104	38	0.12
5-Aug-04	12:00:00	9	119	77	42	40	122	114	9	0.09
5-Aug-04	13:00:00	19	74	41	33		8	0	8	0.06
5-Aug-04	14:00:00	13	100	62	38	1	23	8	15	0.07
5-Aug-04	15:00:00	20	89	50	39	14	5	0	5	0.07
5-Aug-04	16:00:00	35	85	52	34	82				0.07
5-Aug-04	17:00:00	9	401	259	142					0.06
5-Aug-04	18:00:00	17	142	101	40		6	1	5	0.05
5-Aug-04	19:00:00	23	120	77	43	11	16	7	9	0.08
5-Aug-04	20:00:00	36	588	484	104	25	53	28	26	0.14
5-Aug-04	21:00:00	43	140	99	40	35	139	83	56	0.2
5-Aug-04	22:00:00	24	221	173	47	27	202	113	88	0.16
5-Aug-04	23:00:00	39	207	158	49	29	160	90	70	0.16
6-Aug-04	0:00:00	31	303	229	74	27	84	43	42	0.16
6-Aug-04	1:00:00	44	175	138	37	30	142	79	63	0.11
6-Aug-04	2:00:00	28	126	93	33	32	92	60	32	0.06
6-Aug-04	3:00:00	41	859	736	123	16	87	58	29	0.06
6-Aug-04	4:00:00	20	282	225	57	19	120	78	42	0.05
6-Aug-04	5:00:00	34	241	181	60	12	68	39	28	0.06
6-Aug-04	6:00:00	20	118	81	36	7	104	61	43	0.09
6-Aug-04	7:00:00	20	121	87	34	17	124	80	44	0.09
6-Aug-04	8:00:00	15	92	63	29	8	122	72	49	0.05
6-Aug-04	9:00:00	15	139	94	45	7	11	7	5	0.04
6-Aug-04	10:00:00	15	111	71	40	9	13	7	6	0.03
6-Aug-04	11:00:00	14	54	32	22	10	6	3	3	0.03
6-Aug-04	12:00:00	10	76	41	35	10	15	7	8	0.03
6-Aug-04	13:00:00	16	56	35	21	13				0.02
6-Aug-04	14:00:00	15	67	37	31	7				0.02
6-Aug-04	15:00:00	12	73	44	29	12				0.03
6-Aug-04	16:00:00	14	44	24	20	11				0.03
6-Aug-04	17:00:00	15	76	43	34	11				0.03
6-Aug-04	18:00:00	11	113	72	42	14	11	2	8	0.03
6-Aug-04	19:00:00	24	154	103	51	18	24	10	13	0.03
6-Aug-04	20:00:00	25	231	171	60	18	42	19	22	0.03

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
6-Aug-04	21:00:00	20	137	90	47	14	60	29	31	0.05
6-Aug-04	22:00:00	24	118	78	39	15	85	49	36	0.07
6-Aug-04	23:00:00	24	267	207	61	14	110	78	32	0.06
7-Aug-04	0:00:00	25	180	134	47	24	69	40	28	0.06
7-Aug-04	1:00:00	23	275	192	82	22	33	13	20	0.08
7-Aug-04	2:00:00	27	159	102	57	20	136	77	59	0.07
7-Aug-04	3:00:00	24	222	163	59	19	131	69	63	0.07
7-Aug-04	4:00:00	27	249	187	62	22	167	85	82	0.08
7-Aug-04	5:00:00	34	199	147	51	23	161	105	57	0.07
7-Aug-04	6:00:00	26	225	164	61	28	123	66	57	0.09
7-Aug-04	7:00:00	32	250	189	62	17	64	44	20	0.07
7-Aug-04	8:00:00	25	159	105	54	15	56	37	19	0.06
7-Aug-04	9:00:00	14	114	82	33	14	60	37	23	0.06
7-Aug-04	10:00:00	19	37	17	20	18	37	16	21	0.04
7-Aug-04	11:00:00	11	61	33	27	12	29	16	14	0.04
7-Aug-04	12:00:00	14	56	26	30	19	45	24	21	0.03
7-Aug-04	13:00:00	14	47	23	24	5	21	8	14	0.04
7-Aug-04	14:00:00	21	69	34	35	12	31	15	17	0.03
7-Aug-04	15:00:00	19	110	63	47	16	13	3	10	0.03
7-Aug-04	16:00:00	12	45	21	24	11				0.03
7-Aug-04	17:00:00	21	39	14	25	26	18	5	13	0.05
7-Aug-04	18:00:00	21	76	36	40	16	87	48	38	0.26
7-Aug-04	19:00:00	23	69	30	40	20	783	577	206	0.48
7-Aug-04	20:00:00	29	161	112	49	40	755	601	154	0.16
7-Aug-04	21:00:00	27	207	161	45	21	303	186	116	0.19
7-Aug-04	22:00:00	22	223	180	44	34	208	152	56	0.22
7-Aug-04	23:00:00	40	171	138	32	20	114	83	32	0.2
8-Aug-04	0:00:00	32	220	185	35	18	189	143	46	0.19
8-Aug-04	1:00:00	25	230	194	36	34	199	129	71	0.37
8-Aug-04	2:00:00	40	284	249	35	38	438	367	71	0.33
8-Aug-04	3:00:00	34	200	175	25	56	505	388	117	0.41
8-Aug-04	4:00:00	25	161	140	21	53	1053	812	241	0.27
8-Aug-04	5:00:00	30	101	82	19	59	528	419	109	0.31
8-Aug-04	6:00:00	26	196	169	28	70	592	485	107	0.3
8-Aug-04	7:00:00	34	172	148	24	53	296	219	77	0.3
8-Aug-04	8:00:00	29	149	122	27	45	244	174	71	0.14
8-Aug-04	9:00:00	11	113	80	34	9	49	34	16	0.12
8-Aug-04	10:00:00	30	53	28	25	26	207	133	74	0.13
8-Aug-04	11:00:00	22	78	46	32	28	202	133	69	0.08
8-Aug-04	12:00:00	30	86	47	39	31	66	36	29	0.08
8-Aug-04	13:00:00	31	129	100	29	33	101	62	38	0.09
8-Aug-04	14:00:00	26	67	36	31	30	172	128	44	0.06
8-Aug-04	15:00:00	24	66	34	31	25	52	28	23	0.04
8-Aug-04	16:00:00	25	46	21	25	27	44	18	25	0.07

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
8-Aug-04	17:00:00	32	109	64	45	24	23	8	15	0.11
8-Aug-04	18:00:00	28	105	58	47	39				0.11
8-Aug-04	19:00:00	44	99	56	43	34	114	62	52	0.23
8-Aug-04	20:00:00	40	212	164	48	47	166	115	51	0.14
8-Aug-04	21:00:00	50	323	266	57	40	102	58	45	0.14
8-Aug-04	22:00:00	44	288	237	51	42	71	38	33	0.31
8-Aug-04	23:00:00	48	318	274	45	43	370	284	86	0.4
9-Aug-04	0:00:00	46	284	248	36	55	235	202	33	0.5
9-Aug-04	1:00:00	59	370	334	35	50	489	391	98	0.34
9-Aug-04	2:00:00	54	327	297	30	44	204	187	16	0.2
9-Aug-04	3:00:00	42	290	262	29	38	116	105	11	0.19
9-Aug-04	4:00:00		292	244	48	28	99	88	11	0.21
9-Aug-04	5:00:00	48	204	183	21	34	111	101	11	0.39
9-Aug-04	6:00:00	47	237	212	25		129	121	8	0.67
9-Aug-04	7:00:00	51	244	218	26	34	167	159	8	0.78
9-Aug-04	8:00:00	51	274	244	30	41	199	189	10	0.33
9-Aug-04	9:00:00	46	59	43	16	39	94	81	13	0.08
9-Aug-04	10:00:00	18	37	22	15	16	4	1	3	0.07
9-Aug-04	11:00:00	25	16	6	10	32	4	0	3	0.06
9-Aug-04	12:00:00	21	28	13	14	13	9	2	7	0.07
9-Aug-04	13:00:00	23	36	17	20	28	22	8	14	0.09
9-Aug-04	14:00:00	23	75	42	33	16	64	32	32	0.1
9-Aug-04	15:00:00	42	240	161	79	39	26	8	18	0.08
9-Aug-04	16:00:00	40	262	177	85	28	38	17	21	0.08
9-Aug-04	17:00:00	35	185	129	56	24	76	38	39	0.12
9-Aug-04	18:00:00	40	349	222	127	33	124	62	62	0.11
9-Aug-04	19:00:00	47	270	173	97	23	59	31	27	0.09
9-Aug-04	20:00:00	37	139	95	45	34	64	31	33	0.17
9-Aug-04	21:00:00	35	185	134	51	26	174	105	69	0.42
9-Aug-04	22:00:00	57	656	545	111	42	313	262	50	0.36
9-Aug-04	23:00:00	73	611	494	117	39	334	270	65	0.36
10-Aug-04	0:00:00	81	581	497	83	37	296	258	37	0.34
10-Aug-04	1:00:00	60	426	396	30	50	297	271	27	0.37
10-Aug-04	2:00:00	50	383	357	26	46	468	384	83	0.27
10-Aug-04	3:00:00	57	360	334	27	37	259	238	21	0.28
10-Aug-04	4:00:00	53	348	326	22	46	301	252	49	0.37
10-Aug-04	5:00:00	49	259	237	22	38	341	308	33	0.4
10-Aug-04	6:00:00	53	418	384	35	39	257	248	9	0.63
10-Aug-04	7:00:00	53	257	233	23	37	416	340	76	0.45
10-Aug-04	8:00:00	41	271	223	48	42	161	147	14	0.23
10-Aug-04	9:00:00	29	62	44	18	30	102	78	24	0.1
10-Aug-04	10:00:00	35	81	51	31	31	45	27	18	0.1
10-Aug-04	11:00:00	41	91	50	41	27	65	34	31	0.09
10-Aug-04	12:00:00	33				40	89	48	42	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
10-Aug-04	13:00:00	42				34				
10-Aug-04	14:00:00	45	58	26	32	32	38	13	25	
10-Aug-04	15:00:00	33	63	31	32	33	31	9	22	
10-Aug-04	16:00:00	34	82	42	39	34	68	34	34	
10-Aug-04	17:00:00	39	141	85	56	39	105	61	44	
10-Aug-04	18:00:00	41	150	93	57	33	261	162	99	
10-Aug-04	19:00:00	48	126	75	51	47	142	75	67	
10-Aug-04	20:00:00	48	238	168	69	62	452	329	123	
10-Aug-04	21:00:00	46	105	57	48	57	326	253	73	
10-Aug-04	22:00:00	45	175	118	58	47	273	207	66	
10-Aug-04	23:00:00	47	156	101	55	48	255	191	64	
11-Aug-04	0:00:00	56	114	69	45	59	308	231	76	
11-Aug-04	1:00:00	61	151	98	54	65	318	247	71	
11-Aug-04	2:00:00	48	151	94	56	58	301	237	64	
11-Aug-04	3:00:00	34	182	130	52	57	366	293	73	
11-Aug-04	4:00:00	44	160	114	46	42	377	297	80	
11-Aug-04	5:00:00	31	162	117	45	52	394	318	77	
11-Aug-04	6:00:00	39	168	125	43	43	357	282	75	
11-Aug-04	7:00:00	24	149	110	39	39	318	245	73	
11-Aug-04	8:00:00	19	157	120	37	29	249	192	57	
11-Aug-04	9:00:00	30	140	98	42	33	173	131	41	
11-Aug-04	10:00:00	25	136	96	39	33	169	120	49	
11-Aug-04	11:00:00	27	82	51	30	34	73	47	26	
11-Aug-04	12:00:00	21	53	29	24	39	45	26	19	
11-Aug-04	13:00:00	41	76	43	33	34	38	18	20	
11-Aug-04	14:00:00	27	75	44	32	25	40	18	22	
11-Aug-04	15:00:00	14	126	84	42	25	102	63	40	
11-Aug-04	16:00:00	45	155	104	51	37	213	142	72	
11-Aug-04	17:00:00	41	232	155	76	55	323	243	79	
11-Aug-04	18:00:00	40	305	217	88	37	26	14	12	
11-Aug-04	19:00:00	41	310	217	93	26	116	64	52	
11-Aug-04	20:00:00	32	422	282	140	33	667	391	276	
11-Aug-04	21:00:00	24	146	95	50	27	149	84	66	
11-Aug-04	22:00:00	24	175	135	40	19	152	99	53	
11-Aug-04	23:00:00	28	212	167	46	29	279	217	62	
12-Aug-04	0:00:00	35	243	190	53	46	342	236	107	
12-Aug-04	1:00:00	40	495	368	127	40	474	327	147	
12-Aug-04	2:00:00	38	328	229	99	38	670	460	211	
12-Aug-04	3:00:00	36	614	419	195	28	838	637	201	
12-Aug-04	4:00:00	33	372	286	86	26	1548	1185	364	
12-Aug-04	5:00:00	19	341	268	73	37	1734	1309	425	
12-Aug-04	6:00:00	26	370	306	64	25	1488	1152	336	
12-Aug-04	7:00:00	27	437	343	94	37	1621	1243	378	
12-Aug-04	8:00:00	36	348	276	72	35	1162	877	284	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
12-Aug-04	9:00:00	26	336	255	82	39	362	212	150	
12-Aug-04	10:00:00	26	279	210	70	15	35	18	16	
12-Aug-04	11:00:00	17	88	64	24	2	25	15	10	
12-Aug-04	12:00:00	7	73	51	23	4	16	8	9	
12-Aug-04	13:00:00	3	127	83	44		18	8	10	
12-Aug-04	14:00:00	4	128	80	48		12	6	6	
12-Aug-04	15:00:00	6	74	54	20	5	37	24	12	
12-Aug-04	16:00:00	10	115	82	32	6	14	7	7	
12-Aug-04	17:00:00	16	85	55	31	6	21	12	10	
12-Aug-04	18:00:00	9	108	69	39	4	35	21	14	
12-Aug-04	19:00:00	11	98	67	31	1	36	18	19	
12-Aug-04	20:00:00	9	105	75	30	8	53	35	18	
12-Aug-04	21:00:00	5	118	87	31	10	45	30	16	
12-Aug-04	22:00:00	18	76	52	24	13	47	28	18	
12-Aug-04	23:00:00	15	82	56	26	12	55	35	20	
13-Aug-04	0:00:00	13	87	53	33	8	51	26	26	
13-Aug-04	1:00:00	14	129	93	36	15	228	159	69	
13-Aug-04	2:00:00	20	223	161	62	23	572	421	151	
13-Aug-04	3:00:00	27	283	208	75	11	142	71	70	
13-Aug-04	4:00:00	34	374	278	96	22	276	213	63	
13-Aug-04	5:00:00	30	307	248	59	23	387	277	110	
13-Aug-04	6:00:00	36	287	219	67	24	266	210	55	
13-Aug-04	7:00:00	33	381	285	97	28	288	208	80	
13-Aug-04	8:00:00	28	159	122	37	24	54	45	8	
13-Aug-04	9:00:00	10	296	189	107	2	12	8	4	
13-Aug-04	10:00:00	14	88	50	38	5				
13-Aug-04	11:00:00	15	32	18	14	11	4	1	3	
13-Aug-04	12:00:00	13	17	6	11	16	7	3	4	
13-Aug-04	13:00:00	19	36	18	18	13				
13-Aug-04	14:00:00	13	25	13	13	4				
13-Aug-04	15:00:00	8	50	26	24	18				
13-Aug-04	16:00:00	15	44	21	23	15				
13-Aug-04	17:00:00	15	146	82	64	16	23	7	17	
13-Aug-04	18:00:00	26	113	69	43	14				
13-Aug-04	19:00:00	17	132	89	43	17	127	70	56	
13-Aug-04	20:00:00	20	135	90	45	20	125	66	59	
13-Aug-04	21:00:00	23	130	88	42	13	86	45	42	
13-Aug-04	22:00:00	21	142	103	39	26	503	319	184	
13-Aug-04	23:00:00	20	188	146	42	23	252	156	96	
14-Aug-04	0:00:00	18	127	91	36	27	275	173	102	
14-Aug-04	1:00:00	20	137	99	38	22	364	214	149	
14-Aug-04	2:00:00	15	105	69	35	31	312	181	132	
14-Aug-04	3:00:00	25	136	96	40	24	440	280	159	
14-Aug-04	4:00:00	24	94	67	27	35	281	125	156	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
14-Aug-04	5:00:00	24	90	61	29	23	147	74	73	
14-Aug-04	6:00:00	21	127	94	32	27	160	79	80	
14-Aug-04	7:00:00	22	134	103	31	22	224	143	81	
14-Aug-04	8:00:00	22	81	58	23	32	317	179	138	
14-Aug-04	9:00:00	8	61	40	21	19	192	117	75	
14-Aug-04	10:00:00	15	42	25	17	34	145	85	60	
14-Aug-04	11:00:00	13	42	25	17	8				0.06
14-Aug-04	12:00:00	21	33	17	16	18	4	1	3	0.05
14-Aug-04	13:00:00	21	31	14	16	16	12	5	7	0.06
14-Aug-04	14:00:00	22	49	27	22	16				0.06
14-Aug-04	15:00:00	28	181	112	69	23	6	1	5	0.05
14-Aug-04	16:00:00	21	247	166	81	23	60	35	25	0.07
14-Aug-04	17:00:00	16	76	36	40	18	101	62	39	0.06
14-Aug-04	18:00:00	22	153	96	58	15				0.06
14-Aug-04	19:00:00	26	110	66	44	20	15	2	13	0.15
14-Aug-04	20:00:00	25	161	105	56	15	287	147	140	0.3
14-Aug-04	21:00:00	24	391	316	75	29	311	196	115	0.24
14-Aug-04	22:00:00	31	469	360	109	30	542	319	224	0.25
14-Aug-04	23:00:00	33	406	312	93	39	341	204	137	0.23
15-Aug-04	0:00:00	29	487	405	82	47	414	349	65	0.18
15-Aug-04	1:00:00	33	415	326	89	37	374	288	87	0.23
15-Aug-04	2:00:00	34	600	427	173	51	452	317	135	0.19
15-Aug-04	3:00:00	36	659	445	214	38	731	510	220	0.2
15-Aug-04	4:00:00	29	634	427	207	44	675	408	267	0.35
15-Aug-04	5:00:00	35	476	358	118	36	352	253	99	0.18
15-Aug-04	6:00:00	32	626	386	240	33	641	453	188	0.32
15-Aug-04	7:00:00	28	584	375	208	41	366	241	125	0.42
15-Aug-04	8:00:00	23	292	212	80	26	148	107	41	0.52
15-Aug-04	9:00:00	20	289	195	94	19	529	338	191	0.14
15-Aug-04	10:00:00	23	324	210	114	17	295	186	108	0.06
15-Aug-04	11:00:00	27	336	204	132	23	142	80	62	0.07
15-Aug-04	12:00:00	34	227	155	73	24	58	34	23	0.08
15-Aug-04	13:00:00	28	120	59	61	30	82	47	35	0.06
15-Aug-04	14:00:00	30	116	65	51	33	71	33	38	0.05
15-Aug-04	15:00:00	39	299	207	92	22	20	8	12	0.05
15-Aug-04	16:00:00	39	201	119	82	34	28	8	20	0.05
15-Aug-04	17:00:00	39	199	135	63	24	28	12	16	0.05
15-Aug-04	18:00:00	32	289	191	98	32	16	5	11	0.07
15-Aug-04	19:00:00	52	231	150	80	39	217	141	76	0.99
15-Aug-04	20:00:00	37	188	130	57	43	624	415	209	2.95
15-Aug-04	21:00:00	32	221	156	65	38	530	346	184	0.97
15-Aug-04	22:00:00	39	258	187	71	38	242	159	84	0.15
15-Aug-04	23:00:00	49	287	231	56	42	288	208	80	0.15
16-Aug-04	0:00:00	49	267	222	46	38	119	79	41	0.1

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
16-Aug-04	1:00:00	46	299	260	39	38	218	161	56	0.23
16-Aug-04	2:00:00	39	255	219	37	48	228	171	56	0.31
16-Aug-04	3:00:00	41	154	119	35	35	407	274	133	0.15
16-Aug-04	4:00:00	40	226	186	40	55	502	333	169	0.26
16-Aug-04	5:00:00	43	208	169	39	47	194	123	71	0.09
16-Aug-04	6:00:00	44	294	259	35	38	415	344	71	0.24
16-Aug-04	7:00:00	47	308	269	40	43	414	333	81	0.28
16-Aug-04	8:00:00	56	269	218	50	50	404	343	61	0.12
16-Aug-04	9:00:00	30	81	50	31	38	48	35	13	0.07
16-Aug-04	10:00:00	32	147	88	59	28	21	14	8	0.07
16-Aug-04	11:00:00	35	160	90	69	33	7	0	7	0.08
16-Aug-04	12:00:00	37	114	50	64	51	36	19	16	0.12
16-Aug-04	13:00:00	35	54	28	25	31	12	3	9	0.11
16-Aug-04	14:00:00	25	200	131	69	33	24	8	15	0.1
16-Aug-04	15:00:00	34	254	172	82	30	27	9	18	0.09
16-Aug-04	16:00:00	39	405	261	144	30				0.08
16-Aug-04	17:00:00	52	296	203	93	37	14	3	11	0.08
16-Aug-04	18:00:00	62	332	229	103	67	81	48	33	0.08
16-Aug-04	19:00:00	52	313	216	97	50	35	12	23	0.1
16-Aug-04	20:00:00	61	204	141	63	52	38	14	24	0.17
16-Aug-04	21:00:00	49	304	230	73	44	112	69	43	0.31
16-Aug-04	22:00:00	45	492	399	93	29	68	39	29	0.24
16-Aug-04	23:00:00	46	678	532	146	28	72	43	29	0.24
17-Aug-04	0:00:00	48	574	456	117	29	124	82	42	0.28
17-Aug-04	1:00:00	52	205	163	42	48	378	299	79	0.18
17-Aug-04	2:00:00	47	343	303	41	64	399	336	63	0.19
17-Aug-04	3:00:00	58	276	236	40	51	222	193	29	0.2
17-Aug-04	4:00:00	51	452	384	68	63	273	199	74	0.27
17-Aug-04	5:00:00	60	729	588	141	35	85	58	27	0.29
17-Aug-04	6:00:00	60	547	449	97	45	258	218	39	0.35
17-Aug-04	7:00:00	54	372	311	62	52	199	145	54	0.53
17-Aug-04	8:00:00	49	393	308	85	39	34	21	13	0.76
17-Aug-04	9:00:00	43	251	174	77	26	13	5	8	0.42
17-Aug-04	10:00:00	37	144	93	50	31	9	3	6	0.15
17-Aug-04	11:00:00	33	183	91	92	35	24	11	12	0.12
17-Aug-04	12:00:00	47	121	75	47	30	109	58	52	0.07
17-Aug-04	13:00:00	39	118	68	50	43	19	5	14	0.07
17-Aug-04	14:00:00	46	107	51	56	37	70	34	36	0.07
17-Aug-04	15:00:00	40	87	41	46	45	65	26	39	0.07
17-Aug-04	16:00:00	41	96	47	49	32	86	39	46	0.08
17-Aug-04	17:00:00	46	384	262	122	38	49	23	26	0.09
17-Aug-04	18:00:00	53	121	58	62	52	67	30	37	0.1
17-Aug-04	19:00:00	54	133	76	58	65	119	64	55	0.16
17-Aug-04	20:00:00	76	301	236	66	69	177	127	50	0.24



Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
17-Aug-04	21:00:00	63	398	342	56	69	383	292	90	0.25
17-Aug-04	22:00:00	67	359	303	56	60	257	192	64	0.24
17-Aug-04	23:00:00	81	378	315	63	59	299	230	69	0.24
18-Aug-04	0:00:00	79	538	440	98	68	244	183	61	0.22
18-Aug-04	1:00:00	95	435	355	80	70	349	287	61	0.16
18-Aug-04	2:00:00	95	527	426	101	74	275	222	54	0.26
18-Aug-04	3:00:00	84	437	369	68	63	329	283	46	0.25
18-Aug-04	4:00:00	62	665	564	101	66	455	393	62	0.35
18-Aug-04	5:00:00	89	648	535	113	58	471	422	48	0.48
18-Aug-04	6:00:00	94	498	428	70	80	393	339	55	0.27
18-Aug-04	7:00:00	83	832	685	148	71	371	331	40	0.12
18-Aug-04	8:00:00	93	720	643	76	59	353	332	22	0.12
18-Aug-04	9:00:00	62	284	227	57	56	199	175	24	0.08
18-Aug-04	10:00:00	50	183	114	69	36	79	52	28	0.07
18-Aug-04	11:00:00	49	128	77	51	46	87	53	34	0.07
18-Aug-04	12:00:00	35	110	61	49	32	55	27	28	0.07
18-Aug-04	13:00:00	36	126	74	52	34	69	38	31	0.07
18-Aug-04	14:00:00	31	177	110	66	28	59	29	29	0.07
18-Aug-04	15:00:00	33	191	121	69	27	71	39	32	0.08
18-Aug-04	16:00:00	31	202	137	65	29	89	51	38	0.09
18-Aug-04	17:00:00	33	226	150	75	30	102	58	44	0.12
18-Aug-04	18:00:00	31	230	166	64		140	93	48	0.3
18-Aug-04	19:00:00	36	70	33	38	37	131	79	52	
18-Aug-04	20:00:00	33	59	29	30	31	114	69	45	
18-Aug-04	21:00:00	34	145	94	50	46	227	153	74	
18-Aug-04	22:00:00	44	215	133	82	46	277	212	65	
18-Aug-04	23:00:00	35	126	72	54	50	334	263	71	
19-Aug-04	0:00:00	38	122	74	48	45	288	208	80	
19-Aug-04	1:00:00	50	409	296	113	57	324	252	71	
19-Aug-04	2:00:00	52	455	306	149	55	230	173	57	
19-Aug-04	3:00:00	49	673	449	224	38	198	144	53	
19-Aug-04	4:00:00	51	549	400	149	58	447	309	138	
19-Aug-04	5:00:00	57	521	445	76	51	298	246	52	
19-Aug-04	6:00:00	57	556	406	150	55	414	305	109	
19-Aug-04	7:00:00	55	259	201	59	65	343	270	73	0.27
19-Aug-04	8:00:00	59	219	165	55	51	211	158	53	0.13
19-Aug-04	9:00:00	37	463	285	178	37	118	77	42	0.13
19-Aug-04	10:00:00	48	160	112	49	46	122	79	43	0.09
19-Aug-04	11:00:00	38	137	82	55	25	74	40	34	0.08
19-Aug-04	12:00:00	38	60	25	35	36	31	12	19	0.08
19-Aug-04	13:00:00	40	92	44	48	33	43	16	27	0.08
19-Aug-04	14:00:00	45	61	23	38	43	59	24	35	0.08
19-Aug-04	15:00:00	30	100	52	47	33	48	17	31	0.08
19-Aug-04	16:00:00	33	117	64	53	25	95	50	45	0.09

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
19-Aug-04	17:00:00	26	129	67	61	31	90	42	48	0.12
19-Aug-04	18:00:00	36	186	107	80	40	264	179	85	0.3
19-Aug-04	19:00:00	59	238	180	58	50	533	371	162	0.29
19-Aug-04	20:00:00	60	398	319	79	56	239	188	52	0.23
19-Aug-04	21:00:00	57	389	315	74	52	210	154	56	0.69
19-Aug-04	22:00:00	66	568	496	72	61	482	367	114	0.57
19-Aug-04	23:00:00	59	432	373	58	66	582	505	77	0.4
20-Aug-04	0:00:00	42	77	49	28	68	337	266	70	0.18
20-Aug-04	1:00:00	34	35	17	18	49	259	178	81	0.24
20-Aug-04	2:00:00	42	134	96	38	57	418	311	107	0.2
20-Aug-04	3:00:00	42	136	102	34	64	344	251	93	0.22
20-Aug-04	4:00:00	51	278	243	35	56	323	253	70	0.21
20-Aug-04	5:00:00	46	288	248	40	52	267	224	43	0.28
20-Aug-04	6:00:00	52	360	328	32	51	240	210	30	0.43
20-Aug-04	7:00:00	59	483	430	53	59	221	196	24	0.58
20-Aug-04	8:00:00	72	338	301	37	57	224	199	25	0.28
20-Aug-04	9:00:00	43	169	138	31	42	108	86	22	0.12
20-Aug-04	10:00:00	38	104	62	42	34	67	36	32	0.11
20-Aug-04	11:00:00	46	94	46	49	43	63	31	32	0.1
20-Aug-04	12:00:00	61	56	23	33	56	39	13	26	0.09
20-Aug-04	13:00:00	48	94	49	44	54	21	4	16	0.1
20-Aug-04	14:00:00	55	75	34	41	59	41	17	24	0.08
20-Aug-04	15:00:00	45	74	35	39	26	28	9	19	0.07
20-Aug-04	16:00:00	40	73	41	31	37	22	7	15	0.08
20-Aug-04	17:00:00	32	128	81	46	36	60	32	28	0.11
20-Aug-04	18:00:00	39	52	23	29	41	66	31	35	0.1
20-Aug-04	19:00:00	45	82	50	32	62	67	37	31	0.07
20-Aug-04	20:00:00	13	63	36	26	33	56	31	24	0.07
20-Aug-04	21:00:00	10	107	70	36	3	167	130	37	0.07
20-Aug-04	22:00:00	15	91	62	29	17	149	113	35	0.11
20-Aug-04	23:00:00	8	134	98	36	8	175	129	47	0.11
21-Aug-04	0:00:00	13	142	109	34	13	232	187	44	0.12
21-Aug-04	1:00:00	15	172	131	41	11	295	234	62	0.1
21-Aug-04	2:00:00	14	126	92	34	16	293	241	52	0.1
21-Aug-04	3:00:00	11	109	79	30	19	288	235	53	0.11
21-Aug-04	4:00:00	14	142	106	36	24	328	275	53	0.1
21-Aug-04	5:00:00	19	125	94	30	26	292	240	52	0.1
21-Aug-04	6:00:00	15	132	103	29	18	327	267	60	0.1
21-Aug-04	7:00:00	13	124	94	30	20	244	197	47	0.1
21-Aug-04	8:00:00	22	153	125	28	21	154	113	41	0.08
21-Aug-04	9:00:00	16	142	115	27	18	88	69	20	0.1
21-Aug-04	10:00:00	13	178	135	42	12	118	89	29	0.07
21-Aug-04	11:00:00	15	152	115	37	1	101	78	23	0.06
21-Aug-04	12:00:00	3	93	66	28	1	63	45	18	0.06

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
21-Aug-04	13:00:00	14	86	53	33	9	24	14	9	0.08
21-Aug-04	14:00:00	31	208	144	64	43	72	49	23	0.08
21-Aug-04	15:00:00		160	122	38		66	44	23	0.07
21-Aug-04	16:00:00	14	123	82	42		42	30	13	0.07
21-Aug-04	17:00:00	11	60	36	24	3	82	52	30	0.07
21-Aug-04	18:00:00	20	82	49	33	18	20	9	11	0.08
21-Aug-04	19:00:00	20	102	61	41	24	15	6	9	0.09
21-Aug-04	20:00:00	13	107	62	45	11	15	5	9	0.09
21-Aug-04	21:00:00	21	263	171	92	5	31	10	21	0.07
21-Aug-04	22:00:00	38	680	413	267	26	32	17	16	0.07
21-Aug-04	23:00:00	30	433	309	124	8	36	21	15	0.07
22-Aug-04	0:00:00	32	403	321	82	10	40	26	14	0.07
22-Aug-04	1:00:00	32	294	221	73	11	64	36	28	0.06
22-Aug-04	2:00:00	30	404	310	93	24	44	21	22	0.05
22-Aug-04	3:00:00	37	436	331	105	15	20	7	13	0.05
22-Aug-04	4:00:00	34	442	350	92	15	20	6	14	0.06
22-Aug-04	5:00:00	29	490	401	89	17	25	7	18	0.05
22-Aug-04	6:00:00	29	221	170	50	11	11	4	7	0.07
22-Aug-04	7:00:00	20	333	256	77	13	15	7	8	0.07
22-Aug-04	8:00:00	21	254	186	68	5	43	23	20	0.08
22-Aug-04	9:00:00	21	261	191	69	12	92	58	34	0.06
22-Aug-04	10:00:00	10	70	46	23	12	18	13	5	0.07
22-Aug-04	11:00:00	25	106	65	40	18	68	49	19	0.08
22-Aug-04	12:00:00	15	99	65	34	20	166	118	48	0.08
22-Aug-04	13:00:00	29	207	140	66	25	158	95	63	0.09
22-Aug-04	14:00:00		232	156	76	28	191	129	62	0.1
22-Aug-04	15:00:00	21	242	166	76	19	210	142	68	0.08
22-Aug-04	16:00:00	31	277	191	85	32	40	18	21	0.09
22-Aug-04	17:00:00	28	360	248	113	17	10	3	8	0.07
22-Aug-04	18:00:00	31	302	207	95	15	14	6	8	0.08
22-Aug-04	19:00:00	17	324	225	100	17	39	22	16	0.08
22-Aug-04	20:00:00	25	129	94	35	22	42	23	19	0.13
22-Aug-04	21:00:00	29	257	210	47	27	106	75	32	0.18
22-Aug-04	22:00:00	25	281	239	42	31	166	123	43	0.2
22-Aug-04	23:00:00	27	310	275	36	26	165	133	31	0.2
23-Aug-04	0:00:00	31	213	190	23	30	147	134	13	0.29
23-Aug-04	1:00:00	33	356	310	46	37	207	194	12	0.27
23-Aug-04	2:00:00	37	278	252	26	30	180	164	16	0.21
23-Aug-04	3:00:00	27	185	162	24	28	114	111	4	0.25
23-Aug-04	4:00:00	31	218	197	22	30	116	115	1	0.23
23-Aug-04	5:00:00	27	252	227	24	30	143	139	4	0.22
23-Aug-04	6:00:00	27	131	110	21	31	103	91	12	0.09
23-Aug-04	7:00:00	14	47	27	20	7	23	14	9	0.1
23-Aug-04	8:00:00	24	56	33	22	20	85	63	22	0.11

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
23-Aug-04	9:00:00	24	101	74	28	20	119	91	28	0.12
23-Aug-04	10:00:00	30	101	72	28	32	96	68	28	0.08
23-Aug-04	11:00:00	31	118	69	49	31	51	36	16	0.08
23-Aug-04	12:00:00	23	61	34	26	21	30	16	14	0.07
23-Aug-04	13:00:00	23	51	28	24	16	35	19	17	0.07
23-Aug-04	14:00:00	25	78	45	33	25	46	26	20	0.07
23-Aug-04	15:00:00	19				13	47	24	23	0.08
23-Aug-04	16:00:00	17	75	42	32	24	137	113	25	0.06
23-Aug-04	17:00:00	8	93	53	39	11	34	17	17	0.08
23-Aug-04	18:00:00	21	146	95	52	22	117	70	47	0.12
23-Aug-04	19:00:00	25	169	118	51	43	77	40	37	0.17
23-Aug-04	20:00:00	16	230	181	49	39	166	126	39	0.32
23-Aug-04	21:00:00	94	436	387	49	37	221	182	38	0.25
23-Aug-04	22:00:00	85	436	394	41	36	202	168	34	0.29
23-Aug-04	23:00:00	61	422	373	49	31	243	209	35	0.29
24-Aug-04	0:00:00	79	512	472	40	46	265	236	29	0.35
24-Aug-04	1:00:00	55	509	463	46	48	340	309	31	0.24
24-Aug-04	2:00:00	58	392	330	62	46	234	220	14	0.2
24-Aug-04	3:00:00	73	457	418	40	37	213	197	16	0.17
24-Aug-04	4:00:00	51	382	333	49	30	153	135	18	0.21
24-Aug-04	5:00:00	40	383	355	28	33	198	188	10	0.32
24-Aug-04	6:00:00	60	437	398	40	34	193	186	6	0.4
24-Aug-04	7:00:00	25	257	221	36	38	143	138	5	0.45
24-Aug-04	8:00:00	38	186	160	26	33	155	133	21	0.17
24-Aug-04	9:00:00	35	117	91	26	23	75	64	11	0.1
24-Aug-04	10:00:00	12	155	113	42	10	67	53	14	0.07
24-Aug-04	11:00:00	28	326	193	133	14	60	43	17	0.08
24-Aug-04	12:00:00	19	81	49	33	21	62	41	21	0.04
24-Aug-04	13:00:00	15	110	66	43	25	41	23	18	0.05
24-Aug-04	14:00:00	16	99	60	38	18	33	13	20	0.06
24-Aug-04	15:00:00	36	35	14	20	28				0.05
24-Aug-04	16:00:00	21	254	179	75	14	11	3	8	0.04
24-Aug-04	17:00:00	13	72	38	34	17	28	13	15	0.07
24-Aug-04	18:00:00	34	92	54	38	39	59	31	29	0.07
24-Aug-04	19:00:00	22	84	49	35	28	115	73	42	0.12
24-Aug-04	20:00:00	41	137	99	38	40	125	81	44	0.15
24-Aug-04	21:00:00	32	249	204	45	38	207	156	51	0.17
24-Aug-04	22:00:00	62	278	231	47	43	354	241	113	0.14
24-Aug-04	23:00:00	53	149	110	38	22	257	176	81	0.24
25-Aug-04	0:00:00	70	549	448	102	21	398	292	106	0.22
25-Aug-04	1:00:00	57	620	505	115	50	413	326	87	0.24
25-Aug-04	2:00:00	34	265	200	64	55	506	371	136	0.21
25-Aug-04	3:00:00	35	358	277	80	46	334	275	60	0.23
25-Aug-04	4:00:00	31	464	354	110	42	573	424	149	0.21

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
25-Aug-04	5:00:00	61	219	186	33	45	381	300	81	0.22
25-Aug-04	6:00:00	38	296	248	48	41	445	307	138	0.28
25-Aug-04	7:00:00	23	409	348	61	30	377	310	67	0.21
25-Aug-04	8:00:00	49	258	200	58	20	258	212	46	0.14
25-Aug-04	9:00:00	8	94	68	25		172	127	45	0.06
25-Aug-04	10:00:00	26	70	42	28	15	87	64	23	0.06
25-Aug-04	11:00:00	13	43	25	18	12	99	58	41	0.05
25-Aug-04	12:00:00	9	55	31	24	20	49	29	20	0.06
25-Aug-04	13:00:00	21	84	53	31	13	61	40	21	0.05
25-Aug-04	14:00:00	27	95	59	36	25	118	71	48	0.09
25-Aug-04	15:00:00	56	175	128	46	28	158	116	42	0.08
25-Aug-04	16:00:00	41	121	82	40	84	106	72	34	0.07
25-Aug-04	17:00:00	13	125	86	38	7	63	35	28	0.09
25-Aug-04	18:00:00	33	208	151	57	12	208	140	68	0.12
25-Aug-04	19:00:00	95	174	107	66	73	240	157	84	0.11
25-Aug-04	20:00:00	34	136	92	44	52	204	135	69	0.13
25-Aug-04	21:00:00	71	217	178	39	38	206	165	41	0.27
25-Aug-04	22:00:00	60	1351	1088	263	34	313	263	50	0.2
25-Aug-04	23:00:00	59	1079	912	166	26	228	188	40	0.2
26-Aug-04	0:00:00	51	2197	1860	337	22	187	166	21	0.23
26-Aug-04	1:00:00	70	2357	2007	351	46	303	280	22	0.26
26-Aug-04	2:00:00	60	2384	2073	311	45	359	323	36	0.18
26-Aug-04	3:00:00	67	2229	1798	431	44	288	259	28	0.17
26-Aug-04	4:00:00	47	700	607	94	33	248	221	27	0.24
26-Aug-04	5:00:00	47	491	440	52	31	371	339	33	0.27
26-Aug-04	6:00:00	67	404	360	44	36	316	290	25	0.45
26-Aug-04	7:00:00	78	622	552	70	50	339	302	37	0.4
26-Aug-04	8:00:00	58	334	281	54	50	256	211	45	0.13
26-Aug-04	9:00:00	55	166	115	51	37	134	94	40	0.07
26-Aug-04	10:00:00	38	121	74	47	34	72	43	28	0.11
26-Aug-04	11:00:00	68	149	94	55	36	204	149	54	0.05
26-Aug-04	12:00:00	36	89	48	41	44	58	30	28	0.05
26-Aug-04	13:00:00	59	94	48	47	39	60	35	25	0.05
26-Aug-04	14:00:00	42	122	72	50	36	83	47	35	0.07
26-Aug-04	15:00:00	40	126	74	52	45	112	59	54	0.05
26-Aug-04	16:00:00	41	109	61	48	39	49	21	28	0.05
26-Aug-04	17:00:00	48	95	50	45	46	53	25	28	0.07
26-Aug-04	18:00:00	45	50	29	22	36	101	59	42	0.11
26-Aug-04	19:00:00	50	959	885	74	55	52	34	19	0.08
26-Aug-04	20:00:00	52	188	140	48	70	50	25	25	0.09
26-Aug-04	21:00:00	53	275	224	51	59	56	30	26	0.15
26-Aug-04	22:00:00	72	287	254	33	53	171	137	34	0.29
26-Aug-04	23:00:00	68	408	372	36	49	251	217	35	0.28
27-Aug-04	0:00:00	116	402	357	45	32	232	199	33	0.26

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
27-Aug-04	1:00:00	66	336	308	29	68	266	240	26	0.27
27-Aug-04	2:00:00	70	459	428	32	62	296	272	24	0.21
27-Aug-04	3:00:00	106	415	388	27	51	227	208	19	0.16
27-Aug-04	4:00:00	54	463	394	69	43	170	161	9	0.31
27-Aug-04	5:00:00	57	400	338	62	42	153	149	4	0.29
27-Aug-04	6:00:00	59	432	375	57	33	171	166	5	0.58
27-Aug-04	7:00:00	71	315	296	19		296	285	11	0.62
27-Aug-04	8:00:00	60	231	210	21	71	221	211	10	0.16
27-Aug-04	9:00:00	45	50	36	14	44	82	51	31	0.08
27-Aug-04	10:00:00	30	124	96	29	22	63	42	21	0.05
27-Aug-04	11:00:00	21	113	72	41	27	69	39	30	0.04
27-Aug-04	12:00:00	27	97	63	35	29	61	31	30	0.04
27-Aug-04	13:00:00	135	83	41	42	35	53	21	31	0.03
27-Aug-04	14:00:00	14	88	50	38	51	23	6	17	0.03
27-Aug-04	15:00:00	135	131	80	51	36	25	10	15	0.02
27-Aug-04	16:00:00		49	23	26	44	11	1	10	0.02
27-Aug-04	17:00:00	34	45	21	24	46	14	2	12	0.03
27-Aug-04	18:00:00	115	530	385	144	40	28	8	20	0.05
27-Aug-04	19:00:00	92	345	224	120	66	27	8	19	0.15
27-Aug-04	20:00:00	39	1055	755	300	98	119	88	31	0.42
27-Aug-04	21:00:00	217	1178	943	235	76	461	372	89	0.22
27-Aug-04	22:00:00	163	855	699	156	34	263	176	87	0.16
27-Aug-04	23:00:00	65	1049	796	252	46	222	181	41	0.35
28-Aug-04	0:00:00	72	583	493	90	50	455	375	80	0.51
28-Aug-04	1:00:00	57	796	661	135	86	402	338	64	0.46
28-Aug-04	2:00:00	69	1227	913	314	70	480	384	96	0.59
28-Aug-04	3:00:00	107	1757	1247	510	63	664	493	171	0.2
28-Aug-04	4:00:00	85	984	659	325	51	303	233	70	0.29
28-Aug-04	5:00:00	38	919	726	193	58	333	283	50	0.39
28-Aug-04	6:00:00	74	940	709	231	68	434	398	36	0.56
28-Aug-04	7:00:00	62	883	673	210	71	429	404	25	0.31
28-Aug-04	8:00:00	71	1164	905	259	48	251	190	61	0.06
28-Aug-04	9:00:00	20	68	51	17		242	183	58	0.03
28-Aug-04	10:00:00	16	68	46	22	18	104	69	35	0.03
28-Aug-04	11:00:00	38	144	98	47	26	117	80	37	0.03
28-Aug-04	12:00:00	35	115	70	45	42	137	78	59	0.03
28-Aug-04	13:00:00	49	119	56	63	43	130	80	50	0.04
28-Aug-04	14:00:00	49	58	28	30	56	194	122	72	0.02
28-Aug-04	15:00:00	41	96	56	40	44	71	33	38	0.03
28-Aug-04	16:00:00	40	130	73	57	39	94	48	45	0.03
28-Aug-04	17:00:00	42	100	58	42	54	58	29	29	0.03
28-Aug-04	18:00:00	56	52	25	28	54	43	17	26	0.18
28-Aug-04	19:00:00	24	157	122	35	69	157	107	50	0.16
28-Aug-04	20:00:00	58	233	186	47	41	205	156	49	0.13

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
28-Aug-04	21:00:00	54	245	205	40	52	218	153	66	0.05
28-Aug-04	22:00:00	69	155	98	56	36	352	252	100	0.02
28-Aug-04	23:00:00	17	127	89	38	28	261	184	77	0.05
29-Aug-04	0:00:00	117	217	159	58	53	424	291	134	0.09
29-Aug-04	1:00:00	35	576	450	126	42	383	276	107	0.05
29-Aug-04	2:00:00	46	242	180	63	39	311	213	97	0.03
29-Aug-04	3:00:00	22	127	67	61	41	230	168	62	0.03
29-Aug-04	4:00:00	24	106	80	27	26	245	153	93	0.08
29-Aug-04	5:00:00	23	363	284	78	36	445	324	121	0.04
29-Aug-04	6:00:00	31	164	126	38	37	346	235	111	0.03
29-Aug-04	7:00:00	28	93	63	30	28	212	153	59	0.02
29-Aug-04	8:00:00	25	70	44	26	15	172	120	52	0.03
29-Aug-04	9:00:00		147	97	51	14	273	182	91	0.03
29-Aug-04	10:00:00	32	72	40	31	22	227	171	56	0.01
29-Aug-04	11:00:00		38	22	17		85	58	27	0.01
29-Aug-04	12:00:00	26	94	60	33	12	59	36	23	0.02
29-Aug-04	13:00:00	24	94	57	37	22	64	37	26	0.01
29-Aug-04	14:00:00	20	138	88	50	8	45	25	20	0.01
29-Aug-04	15:00:00	17	189	124	65	8	26	13	13	0.01
29-Aug-04	16:00:00	36	235	145	91	24	70	40	30	0.01
29-Aug-04	17:00:00	37	194	135	59	28	35	18	17	0.02
29-Aug-04	18:00:00	29	248	176	72	22	35	15	20	0.02
29-Aug-04	19:00:00	24	347	236	111	27	24	7	16	0.02
29-Aug-04	20:00:00	10	130	97	33	17	42	19	24	0.02
29-Aug-04	21:00:00	30	253	196	57	14	62	41	21	0.02
29-Aug-04	22:00:00	39	462	362	99	26	61	40	21	0.03
29-Aug-04	23:00:00	28	317	275	42	22	128	102	26	0.05
30-Aug-04	0:00:00	54	366	327	39	40	208	188	20	0.05
30-Aug-04	1:00:00	44	573	476	97	31	162	116	46	0.02
30-Aug-04	2:00:00	24	525	427	98	22	139	111	28	0.02
30-Aug-04	3:00:00	45	660	525	135	22	193	135	58	0.02
30-Aug-04	4:00:00	28	387	325	62	23	179	140	40	0.02
30-Aug-04	5:00:00	56	388	330	58	33	116	73	43	0.05
30-Aug-04	6:00:00	34	411	341	70	22	123	107	16	0.1
30-Aug-04	7:00:00	47	240	208	31	54	192	168	24	0.19
30-Aug-04	8:00:00	22	219	196	23	28	162	153	9	0.09
30-Aug-04	9:00:00	28	86	71	16	23	124	93	30	0.03
30-Aug-04	10:00:00	9	48	28	21	15	53	29	24	0.05
30-Aug-04	11:00:00	8	31	18	13	34	116	72	44	
30-Aug-04	12:00:00	31	78	66	12	6	90	79	10	
30-Aug-04	13:00:00	28	56	33	24	36	88	62	26	
30-Aug-04	14:00:00	9	41	21	20	25	24	11	14	
30-Aug-04	15:00:00	30	44	23	21	19	40	21	19	
30-Aug-04	16:00:00	29	118	83	35	20	11	5	5	

Date	Time	Trailer #1				Trailer #2				
		PM2.5	NOx	NO	NO2	PM2.5	NOx	NO	NO2	CO
		(ug/m3)	(ppb)	(ppb)	(ppb)	(ug/m3)	(ppb)	(ppb)	(ppb)	(ppm)
30-Aug-04	17:00:00	23	232	168	64	13	46	27	19	
30-Aug-04	18:00:00	38	385	305	80	28	77	49	28	
30-Aug-04	19:00:00	23	598	432	166	34	101	72	29	
30-Aug-04	20:00:00	70	439	324	115	24	52	24	28	
30-Aug-04	21:00:00	29	336	251	85	30	93	57	36	
30-Aug-04	22:00:00	32	342	253	89	24	77	48	29	
30-Aug-04	23:00:00	44	777	559	219	38	95	61	35	
31-Aug-04	0:00:00	54	766	544	222	33	93	50	43	
31-Aug-04	1:00:00	60	764	568	196	54	100	58	41	
31-Aug-04	2:00:00	65	797	589	208	67	89	48	41	
31-Aug-04	3:00:00	68	727	562	165	58	81	42	39	
31-Aug-04	4:00:00	76	629	489	140	53	79	47	32	
31-Aug-04	5:00:00	71	365	289	76	61	118	78	40	
31-Aug-04	6:00:00	66	516	434	82	47	69	42	26	
31-Aug-04	7:00:00	95	444	355	89	50	90	58	32	
31-Aug-04	8:00:00	63	350	283	68	33	204	156	48	
31-Aug-04	9:00:00		152	111	41	3	92	61	32	
31-Aug-04	10:00:00	87	181	138	43	33	72	49	23	
31-Aug-04	11:00:00	22	74	53	21	21	107	73	35	
31-Aug-04	12:00:00	18	149	114	35	29	96	64	32	
31-Aug-04	13:00:00	16	72	47	25	29	99	66	33	
31-Aug-04	14:00:00	24	68	42	26	25	81	42	39	
31-Aug-04	15:00:00	36	168	119	49	34	60	34	26	
31-Aug-04	16:00:00	45	424	273	150	30	135	102	33	
31-Aug-04	17:00:00	74	600	433	167	45	114	47	68	
31-Aug-04	18:00:00	76	623	433	191	38	23	9	13	
31-Aug-04	19:00:00	98	803	600	203	34	84	44	40	
31-Aug-04	20:00:00	91	987	686	301	33	65	33	32	
31-Aug-04	21:00:00	88	900	634	266	24	56	27	30	
31-Aug-04	22:00:00	80	917	723	194	19	258	180	78	
31-Aug-04	23:00:00	61	814	624	190	26	149	82	67	



## A-3 Met Data From Watt Road Site

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/12/03	100	-1.877	765	0	0.5	4.021	26.18	93.3	0.009	0.00003
12/12/03	200	-2.152	764	0	1.045	26.21	17	93.8	0.014	0.00005
12/12/03	300	-2.695	765	0	0.425	278.4	26.64	95.1	0.023	0.00008
12/12/03	400	-3.091	765	0	0.392	355.7	42.67	95.3	0.02	0.00007
12/12/03	500	-3.228	765	0	0.51	13.96	20.26	95.4	0.021	0.00008
12/12/03	600	-3.545	765	0	0.348	307.6	40.94	95	0.012	0.00004
12/12/03	700	-3.64	765	0	0.26	320.9	22.5	93.9	0.019	0.00007
12/12/03	800	-3.562	766	0	0.545	345.2	39.29	93.3	4.383	0.01578
12/12/03	900	-2.433	766	0	0.621	48.42	38.08	85.3	115	0.41396
12/12/03	1000	-0.275	766	0	1.427	68.36	24.34	78.2	277.8	1.0001
12/12/03	1100	1.309	767	0	2.014	42.33	20.77	64.85	266.3	0.95865
12/12/03	1200	2.472	767	0	1.565	39.58	41.54	56.33	335.1	1.2064
12/12/03	1300	3.962	767	0	1.749	30.06	38.07	49.01	469.9	1.6915
12/12/03	1400	5.256	766	0	1.955	24.15	38.65	38.52	414.5	1.4923
12/12/03	1500	6.115	766	0	2.158	29.54	26.87	39.01	334.3	1.2034
12/12/03	1600	6.917	765	0	2.029	16.46	26.83	38.31	250.1	0.90024
12/12/03	1700	7	765	0	2.077	23.2	19.85	40.49	96	0.34567
12/12/03	1800	5.66	766	0	0.909	31.57	21.13	49.14	3.962	0.01426
12/12/03	1900	3.542	766	0	0.608	325.9	54.9	64.95	0.005	0.00002
12/12/03	2000	1.951	766	0	1.115	27.49	18.48	57.68	0.007	0.00002
12/12/03	2100	2.955	766	0	2.382	35.23	12.5	57.58	0.012	0.00004
12/12/03	2200	2.587	766	0	2.346	33.86	11.26	60.15	0.017	0.00006
12/12/03	2300	2.153	766	0	2.602	31.09	11.75	61.79	0.012	0.00004
12/12/03	2400	1.787	766	0	2.42	32.9	11.17	63.19	0.015	0.00006
12/13/03	100	1.598	765	0	2.513	34.39	12.41	62.36	0.017	0.00006
12/13/03	200	2.164	765	0	3.539	28.41	12.29	60.69	0.024	0.00009
12/13/03	300	2.518	766	0	3.053	41.86	12.59	60.55	0.017	0.00006
12/13/03	400	2.35	766	0	2.76	34.42	12.65	64.35	0.021	0.00008
12/13/03	500	2.032	766	0	2.591	29.88	13.21	65.32	0.017	0.00006
12/13/03	600	2.029	766	0	2.207	49.24	17.14	63.92	0.022	0.00008
12/13/03	700	2.165	766	0	2.079	38.6	18.26	64.79	0.012	0.00004
12/13/03	800	2.162	766	0	1.795	26.85	24.27	64.59	0.841	0.00303
12/13/03	900	2.35	766	0	2.302	24.54	20.52	63.22	16.1	0.05797
12/13/03	1000	2.901	766	0	2.177	27.07	16.81	60.68	46.72	0.16818
12/13/03	1100	3.585	766	0	2.835	31.95	15.6	54.86	114	0.41038
12/13/03	1200	4.18	766	0	2.637	31.21	17.54	53.66	114.4	0.41168
12/13/03	1300	4.442	765	0	2.169	31.55	30.21	55.49	84.6	0.30448
12/13/03	1400	4.469	764	0	2.106	36.51	20.71	53.85	66.27	0.23858
12/13/03	1500	4.674	764	0	1.971	25.51	18.48	53.85	56.63	0.20387
12/13/03	1600	4.833	763	0	1.815	32.52	14.39	54.79	30.78	0.1108

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/13/03	1700	4.759	763	0	2.371	56.59	15.85	56.26	10.3	0.03708
12/13/03	1800	4.51	762	0.1	1.861	64.56	18.88	71.7	0.378	0.00136
12/13/03	1900	3.128	762	0.3	1.429	34.27	16.41	90	0.006	0.00002
12/13/03	2000	2.651	761	0.2	1.924	24.91	19.44	91.5	0.006	0.00002
12/13/03	2100	2.868	760	0	1.33	3.238	41.35	89.4	0.009	0.00003
12/13/03	2200	3.22	760	0	0.435	27.1	66.66	89	0.007	0.00003
12/13/03	2300	3.487	760	0	1.274	20.44	26.36	89.7	0.009	0.00003
12/13/03	2400	3.622	759	0.3	0.872	20.79	35.8	91.6	0.006	0.00002
12/14/03	100	3.453	759	0.9	0.967	34.5	22.12	94.9	0.005	0.00002
12/14/03	200	3.409	758	0.8	1.288	27.34	24.85	96.1	0.006	0.00002
12/14/03	300	3.652	758	1.1	1.344	299.6	36.36	96.3	0.004	0.00002
12/14/03	400	3.77	759	0.4	1.119	277.6	36.16	96.5	0.009	0.00003
12/14/03	500	3.782	759	1.3	0.868	137.7	37.81	96.8	0.003	0.00001
12/14/03	600	3.81	758	0.1	1.318	158.1	22.23	96.7	0.005	0.00002
12/14/03	700	3.96	758	0.1	1.617	153.3	16.18	96.7	0.003	0.00001
12/14/03	800	4.005	759	0.2	0.78	169.6	16.79	96.6	0.409	0.00147
12/14/03	900	4.064	759	0	0.607	231.9	32.88	96.7	5.521	0.01988
12/14/03	1000	4.259	759	0.1	0.981	230.8	18.9	97	24.94	0.08977
12/14/03	1100	4.506	759	0	1.898	223.7	13.03	96.7	45.11	0.16239
12/14/03	1200	4.784	759	0.1	2.344	228	14.62	95.7	45.65	0.16434
12/14/03	1300	5	759	0	2.686	231	13.58	94.9	37.62	0.13542
12/14/03	1400	5.35	758	0	2.083	242.7	27.9	91.3	26.31	0.0947
12/14/03	1500	4.858	758	0	2.147	287.4	29.81	84.2	40.23	0.14482
12/14/03	1600	4.755	759	0	2.03	292.3	28.17	84.2	38.13	0.13728
12/14/03	1700	4.534	759	0	2.435	282.9	27.55	80.4	17.46	0.06287
12/14/03	1800	3.909	760	0	2.407	277.1	25.75	80	1.128	0.00406
12/14/03	1900	3.346	761	0	3.566	270.6	17.24	81	0.003	0.00001
12/14/03	2000	2.957	761	0	2.934	274.5	24.27	79.8	0.012	0.00004
12/14/03	2100	2.905	762	0	2.857	260.9	18.15	76.9	0.012	0.00004
12/14/03	2200	2.8	762	0	2.939	261.4	13.4	79.6	0.007	0.00003
12/14/03	2300	2.543	762	0	2.887	240.7	14.83	81.9	0.013	0.00005
12/14/03	2400	2.3	763	0	1.745	241.1	19.51	80.1	0.013	0.00005
12/15/03	100	2.338	763	0	1.569	247.8	21.61	79.9	0.018	0.00006
12/15/03	200	2.304	763	0	2.22	250.2	19.23	81.6	0.016	0.00006
12/15/03	300	2.276	763	0	1.475	266.8	20.65	77.4	0.017	0.00006
12/15/03	400	1.998	763	0	1.555	283.6	23.29	81.7	0.016	0.00006
12/15/03	500	0.793	763	0	0.757	267.6	20.58	89.9	0.015	0.00005
12/15/03	600	-0.378	764	0	0.443	329.4	48.39	92.9	0.006	0.00002
12/15/03	700	-0.868	764	0	0.389	341.6	31.7	94.5	0.011	0.00004
12/15/03	800	-1.175	765	0	0.629	266.3	70.6	95.1	4.807	0.01731
12/15/03	900	-0.758	765	0	0.633	227.8	29.22	93.7	115.6	0.41602
12/15/03	1000	2.212	766	0	0.559	210.1	18.57	77.8	267	0.96106
12/15/03	1100	3.495	766	0	1.109	210.8	37.01	74.5	398.9	1.4361

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/15/03	1200	4.958	766	0	1.069	230.5	55.85	72.8	480.4	1.7294
12/15/03	1300	6.236	766	0	0.847	213.1	66.34	63.18	492.1	1.7715
12/15/03	1400	7.57	765	0	1.233	164	62.1	63.05	463.7	1.6694
12/15/03	1500	8.66	764	0	0.993	124.1	55.81	60.14	375.5	1.3516
12/15/03	1600	9.28	764	0	1.243	110.1	40.5	58.47	257.2	0.92605
12/15/03	1700	8.96	763	0	1.136	118.9	54.01	64.22	76.7	0.27619
12/15/03	1800	6.767	763	0	0.648	228.3	65.93	75.2	4.079	0.01468
12/15/03	1900	5.233	763	0	0.573	289.6	36.42	82.3	0.001	0
12/15/03	2000	4.114	763	0	0.64	3.258	25.81	86.8	0.009	0.00003
12/15/03	2100	2.992	763	0	0.592	4.054	28.56	90.1	0.012	0.00004
12/15/03	2200	1.933	763	0	0.459	353.7	39.57	91.5	0.013	0.00005
12/15/03	2300	1.16	763	0	0.424	286.9	39.32	92.7	0.013	0.00005
12/15/03	2400	0.721	763	0	0.45	281.9	29.65	94.3	0.015	0.00005
12/16/03	100	0.434	763	0	0.529	357.4	46.04	94.8	0.012	0.00004
12/16/03	200	0.093	763	0	0.465	275.9	48.4	95	0.01	0.00003
12/16/03	300	-0.117	763	0	0.462	295.4	36.31	95.7	0.013	0.00005
12/16/03	400	-0.419	763	0	0.901	255.7	49.43	95.6	0.009	0.00003
12/16/03	500	-0.87	763	0	0.473	305.3	59.64	95.9	0.009	0.00003
12/16/03	600	-1.156	763	0	0.915	253.5	25.31	97	0.01	0.00004
12/16/03	700	0.763	763	0	1.822	220.1	31.27	85.7	0.016	0.00006
12/16/03	800	3.297	764	0	1.63	226.7	23.74	84.9	8.1	0.02916
12/16/03	900	5.995	764	0	3.302	205.2	20.84	70.6	139.7	0.50291
12/16/03	1000	8.86	764	0	3.503	203.7	18.99	52.58	250.1	0.90029
12/16/03	1100	10.89	764	0	3.547	207.2	21.89	55.04	213.7	0.76922
12/16/03	1200	12.58	763	0	3.984	212.4	19.55	58.17	211.6	0.76189
12/16/03	1300	13.29	762	0	4.62	214.6	15.96	58.61	237.8	0.85606
12/16/03	1400	14.12	761	0	4.493	206.1	17.03	56	289	1.0404
12/16/03	1500	15.24	760	0	4.249	203.9	21.41	56.19	329	1.1843
12/16/03	1600	15.65	759	0	3.99	199.8	19.7	57.6	170.1	0.61223
12/16/03	1700	15.43	759	0	3.229	199.4	19.75	60.31	48.28	0.17381
12/16/03	1800	14.98	758	0	3.176	202.5	17.33	61.75	1.876	0.00675
12/16/03	1900	14.34	757	0	4.006	205.9	15.99	64.52	0.006	0.00002
12/16/03	2000	13.09	757	0	3.698	211.5	15.28	70.7	0.006	0.00002
12/16/03	2100	11.36	757	0.6	3.557	252.1	14.15	92	0.004	0.00001
12/16/03	2200	10.27	758	1.2	4.171	255.5	22.43	88.2	0.005	0.00002
12/16/03	2300	6.967	758	0.1	3.829	285.3	25.49	88.2	0.001	0
12/16/03	2400	4.849	759	0.2	3.882	265.8	15.84	90.2	0	0
12/17/03	100	3.484	759	0.6	2.274	232.1	20.49	93.8	0.001	0
12/17/03	200	2.264	759	0.2	3.127	233.6	16.69	91.3	0.007	0.00003
12/17/03	300	1.625	759	0	4.045	270.7	25.28	87.4	0.009	0.00003
12/17/03	400	1.008	760	0	3.678	279.5	22.5	80.7	0.014	0.00005
12/17/03	500	0.226	760	0	5.135	269.4	18.29	77	0.015	0.00006
12/17/03	600	-0.05	760	0	3.897	265.7	22.77	76.2	0.013	0.00005

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/17/03	700	-0.043	761	0	2.738	277.7	23.33	71.8	0.012	0.00004
12/17/03	800	-0.048	761	0	2.278	276.4	25.38	70.9	2.39	0.0086
12/17/03	900	0.128	762	0	3.042	283.4	22.57	68.24	47.76	0.17193
12/17/03	1000	0.333	762	0	3.342	271.4	27.24	68.24	106.2	0.38228
12/17/03	1100	1.008	762	0	4.177	271.2	21.38	65.22	396.5	1.4273
12/17/03	1200	1.399	762	0	4.027	270.6	20.4	60.34	384.7	1.3848
12/17/03	1300	2.316	762	0	4.244	264.7	19.32	53.45	502.6	1.8093
12/17/03	1400	3.358	761	0	4.01	264	19.46	47.27	481.7	1.7341
12/17/03	1500	4	760	0	4.11	270.7	21.35	44	403.4	1.4522
12/17/03	1600	4.113	760	0	4.27	269.7	18.27	42.86	270.9	0.97514
12/17/03	1700	3.779	761	0	3.577	264.5	20.22	48.84	109.1	0.39273
12/17/03	1800	2.725	761	0	2.113	241.2	17.54	56.7	3.685	0.01327
12/17/03	1900	1.184	762	0	1.678	224.8	9.05	62.22	0.009	0.00003
12/17/03	2000	0.637	762	0	0.804	226.8	15.59	65.54	0.008	0.00003
12/17/03	2100	-0.042	763	0	0.914	237.8	16.1	75.3	0.008	0.00003
12/17/03	2200	-0.706	762	0	1.173	236.4	17.31	74.8	0.009	0.00003
12/17/03	2300	-1.108	762	0	1.284	227.8	12.28	77.3	0.007	0.00002
12/17/03	2400	-0.654	762	0	1.51	231.4	10.6	71	0.012	0.00004
12/18/03	100	-0.171	762	0	1.451	236.5	13.66	75.4	0.016	0.00006
12/18/03	200	-0.484	761	0	1.534	232.8	9.51	73.8	0.008	0.00003
12/18/03	300	-0.109	761	0	1.562	225.4	9.23	70.4	0.01	0.00004
12/18/03	400	0.407	761	0	1.365	226.7	14.51	70.2	0.021	0.00007
12/18/03	500	0.628	760	0	1.068	234.4	16.41	71	0.019	0.00007
12/18/03	600	0.661	760	0	0.906	144.6	61.63	74.9	0.024	0.00009
12/18/03	700	0.281	759	0	0.828	203.5	25.61	79.1	0.021	0.00008
12/18/03	800	0.22	759	0	0.894	250.9	23.8	77.2	2.734	0.00984
12/18/03	900	0.641	758	0	1.032	213	14.88	75.4	46	0.16559
12/18/03	1000	1.819	758	0	2.946	219.7	16.2	67.57	84.4	0.30392
12/18/03	1100	3.176	758	0	3.978	228.5	15.36	64.65	134.7	0.48476
12/18/03	1200	3.796	758	0	4.283	225.5	16.24	63.62	109.6	0.39473
12/18/03	1300	4.01	757	0	4.244	232.9	13.03	68.93	103.2	0.37148
12/18/03	1400	4.691	757	0	3.674	228	13.29	71.9	90.4	0.32552
12/18/03	1500	4.979	757	0	3.5	227.7	16.76	73.9	66.99	0.24115
12/18/03	1600	5.833	757	0	3.588	249.9	13.45	66.68	29.79	0.10723
12/18/03	1700	5.794	758	0	4.347	256.3	16.15	69.85	12.68	0.04564
12/18/03	1800	5.043	759	0.1	4.748	254.3	14.42	77.6	0.655	0.00236
12/18/03	1900	4.476	759	0	4.05	254.5	15.34	77.2	0.001	0
12/18/03	2000	4.424	759	0	3.329	254.8	16.53	77.1	0.004	0.00001
12/18/03	2100	4.216	759	0	4.237	245.7	14.5	80.5	0.007	0.00002
12/18/03	2200	3.213	759	0	4.697	266.2	22.46	79.8	0.004	0.00001
12/18/03	2300	2.164	760	0	4.308	278.8	26.07	75.3	0.006	0.00002
12/18/03	2400	1.551	760	0	3.885	271.7	21.24	72.1	0.011	0.00004
12/19/03	100	1.127	760	0	3.938	256.9	15.48	72.4	0.017	0.00006

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/19/03	200	0.908	760	0	3.5	262.5	21.01	73.9	0.016	0.00006
12/19/03	300	0.853	760	0	3.595	262.7	19.4	76.5	0.016	0.00006
12/19/03	400	0.972	761	0	3.211	256.7	21.78	71.2	0.012	0.00004
12/19/03	500	1.079	761	0	4.912	265.6	16.88	68.57	0.017	0.00006
12/19/03	600	0.951	760	0	4.159	261.9	16.6	71.7	0.013	0.00005
12/19/03	700	0.866	761	0	3.583	266.5	16.65	72.2	0.016	0.00006
12/19/03	800	0.995	761	0	3.279	254	14.93	71.7	0.653	0.00235
12/19/03	900	1.05	761	0	3.047	248.3	14.18	75.8	14.78	0.05321
12/19/03	1000	1.349	762	0	2.987	250.4	17.52	69.27	54.17	0.19502
12/19/03	1100	1.821	762	0	3.278	225.5	16.07	70.1	85.1	0.3064
12/19/03	1200	2.317	761	0	4.756	238.5	18.11	63.38	85.8	0.30883
12/19/03	1300	2.13	760	0	5.189	255	14.63	66.15	88.9	0.31987
12/19/03	1400	1.321	760	0	5.668	257.9	19.54	92.7	98.4	0.35418
12/19/03	1500	0.773	761	0.2	3.656	273.8	26.76	71.5	209.8	0.75539
12/19/03	1600	-0.07	761	0	3.752	253.9	22.85	74.1	34.5	0.12419
12/19/03	1700	0.263	762	0	3.257	248	17.64	74.7	22.29	0.08025
12/19/03	1800	-0.628	762	0	2.493	278	25.42	93.2	1.049	0.00378
12/19/03	1900	-1.732	763	0	1.409	253.5	27.38	96.2	0.016	0.00006
12/19/03	2000	-1.592	763	0	3.442	270.7	27.62	75.3	0.012	0.00004
12/19/03	2100	-1.151	763	0	4.014	273.1	22.35	68.58	0.01	0.00004
12/19/03	2200	-1.934	764	0	3.525	282.2	26.83	80.2	0.007	0.00002
12/19/03	2300	-2.563	764	0	2.259	260.6	20.69	66.21	0.001	0
12/19/03	2400	-2.407	765	0	2.463	267.6	21.15	73.7	0.004	0.00001
12/20/03	100	-2.81	765	0	2.625	256.2	13.43	78.4	0.004	0.00001
12/20/03	200	-3.026	765	0	2.088	250.1	14.41	82.9	0	0
12/20/03	300	-3.302	765	0	1.706	245.9	13.3	81.6	0.001	0
12/20/03	400	-3.379	765	0	2.658	258.8	16.33	72.2	0	0
12/20/03	500	-3.886	765	0	1.159	222.4	32.11	77.8	0	0
12/20/03	600	-4.406	765	0	1.465	262.1	19.86	73	0	0
12/20/03	700	-4.408	766	0	1.294	246.3	26.11	81.2	0	0
12/20/03	800	-5.197	767	0	1.107	239	15.82	80.5	4.373	0.01574
12/20/03	900	-4.889	768	0	1.612	242.8	21.38	73.2	112.4	0.40453
12/20/03	1000	-3.178	768	0	2.44	269.3	20.53	66.68	281.9	1.0148
12/20/03	1100	-2.508	769	0	2.277	269.4	22.72	62.59	409	1.4722
12/20/03	1200	-1.685	769	0.2	1.716	259	35.4	59.21	493.6	1.7769
12/20/03	1300	-1.121	769	0	1.833	303.3	74.1	60.71	399.4	1.4379
12/20/03	1400	-0.168	769	0	1.832	219.1	67.1	61.34	513.9	1.85
12/20/03	1500	0.624	769	0	1.673	254.2	55.24	54.75	409.2	1.473
12/20/03	1600	0.966	769	0	1.858	212.7	44.72	55.96	277.3	0.99831
12/20/03	1700	0.898	769	0	1.548	275.2	36.32	52.09	112.7	0.40588
12/20/03	1800	0.027	769	0	0.99	300.8	26.86	61.92	3.989	0.01436
12/20/03	1900	-1.354	770	0	0.705	265.5	32.07	70.4	0.001	0
12/20/03	2000	-2.193	770	0	0.926	16.3	27.21	73.6	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/20/03	2100	-2.705	770	0	0.711	21.81	24.07	77.4	0	0
12/20/03	2200	-3.318	771	0	0.363	21.63	35.32	79.7	0	0
12/20/03	2300	-4.043	771	0	0.467	356.3	43.64	84.3	0	0
12/20/03	2400	-4.451	771	0	0.467	8.05	36.1	87.3	0	0
12/21/03	100	-5.256	771	0	0.507	1.435	42.15	89.6	0	0
12/21/03	200	-5.705	771	0	0.429	8.76	28.45	90.4	0	0
12/21/03	300	-6.095	771	0	0.51	355.3	52.05	91.2	0	0
12/21/03	400	-6.494	771	0	0.288	297	48.02	92.4	0	0
12/21/03	500	-6.699	771	0	0.623	40.52	18.6	92.4	0	0
12/21/03	600	-6.834	771	0	0.741	30.21	15.79	91.7	0	0
12/21/03	700	-6.81	772	0	0.427	40.06	20.44	90.9	0	0
12/21/03	800	-6.688	772	0	0.604	24.61	21.88	90.5	3.161	0.01138
12/21/03	900	-6.057	772	0	0.392	11.16	65.15	86.1	102.8	0.37006
12/21/03	1000	-3.078	773	0	0.399	77.2	26.62	70.9	269.9	0.9716
12/21/03	1100	-0.225	773	0	0.933	200.7	42.94	65.19	395	1.4221
12/21/03	1200	1.396	773	0	2.131	217.3	26.57	50.01	472.7	1.7019
12/21/03	1300	3.306	772	0	2.804	227.1	16.66	40.89	498.4	1.7943
12/21/03	1400	5.538	771	0	2.637	216.4	27.78	31.87	476.6	1.7156
12/21/03	1500	7.07	770	0	2.648	206.4	25.39	32	396.7	1.4282
12/21/03	1600	7.97	770	0	2.959	228	19.61	28.39	269.2	0.96929
12/21/03	1700	8.18	769	0	2.215	232.5	12.31	29.23	113.2	0.40739
12/21/03	1800	5.848	769	0	0.875	221.8	25.31	40.45	3.849	0.01386
12/21/03	1900	3.158	769	0	0.682	272.2	22.41	54.03	0.006	0.00002
12/21/03	2000	1.387	769	0	0.668	311.2	51.41	63.66	0.002	0.00001
12/21/03	2100	0.249	769	0	0.326	330	33.55	68.15	0.001	0
12/21/03	2200	-0.464	769	0	0.347	332.2	39.7	70.7	0	0
12/21/03	2300	-1.228	769	0	0.486	344.1	48.11	76.9	0	0
12/21/03	2400	-1.92	769	0	0.508	289	35.85	80	0	0
12/22/03	100	-2.509	769	0	0.535	274.8	26.71	83.5	0	0
12/22/03	200	-3.144	769	0	0.375	310.1	43.43	83.3	0	0
12/22/03	300	-3.432	769	0	0.376	297.1	40.3	84.8	0	0
12/22/03	400	-3.6	769	0	0.449	280.6	33.19	85.5	0	0
12/22/03	500	-3.657	769	0	0.828	262.6	19.57	85.7	0	0
12/22/03	600	-3.284	769	0	0.411	285.3	24.39	83.9	0	0
12/22/03	700	-2.615	769	0	0.669	266.2	24.13	83.8	0	0
12/22/03	800	-2.444	769	0	0.377	335.9	31.79	80.3	5.843	0.02104
12/22/03	900	-0.917	769	0	0.279	356.9	46.68	74.8	50.2	0.18074
12/22/03	1000	1.209	769	0	0.395	343	47.3	65.2	110	0.39584
12/22/03	1100	4.766	769	0	0.462	53.91	71.7	45.17	392.7	1.4136
12/22/03	1200	7.58	769	0	2.121	246.1	56.7	49.77	394.3	1.4196
12/22/03	1300	10.11	768	0	3.605	235.4	16.94	53.3	402.2	1.4481
12/22/03	1400	12.07	767	0	4.33	215.8	19.67	51.36	395.3	1.4229
12/22/03	1500	12.66	766	0	4.222	213.3	17.11	52.73	252.7	0.90985

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/22/03	1600	12.45	766	0	3.704	225.7	13.97	55.17	132.2	0.47606
12/22/03	1700	12.03	766	0	2.173	232.6	13.11	57.54	53.34	0.19204
12/22/03	1800	11.17	766	0	1.447	231.6	15.15	64.73	7.48	0.02694
12/22/03	1900	9.27	766	0	1.153	228.1	16.25	71.7	0	0
12/22/03	2000	7.8	766	0	0.938	249.1	36.44	78.9	0	0
12/22/03	2100	6.367	766	0	0.357	300.3	26.48	84.2	0.005	0.00002
12/22/03	2200	4.581	765	0	0.546	270.6	36.33	88	0.01	0.00004
12/22/03	2300	3.671	765	0	0.314	354.5	34.55	89.7	0.01	0.00004
12/22/03	2400	2.69	765	0	0.263	294.3	25.17	91.9	0.012	0.00004
12/23/03	100	2.15	764	0	0.381	3.417	35.26	92.8	0.014	0.00005
12/23/03	200	1.646	764	0	0.581	9.62	45.37	93.9	0.009	0.00003
12/23/03	300	0.932	763	0	0.543	20.57	57.56	94.3	0.009	0.00003
12/23/03	400	0.38	763	0	0.362	21.49	50.98	95	0.003	0.00001
12/23/03	500	-0.213	762	0	0.364	4.285	31.21	96	0.005	0.00002
12/23/03	600	-0.302	762	0	0.378	12.17	45.66	95.9	0.002	0.00001
12/23/03	700	-0.755	762	0	0.319	322.8	47.46	96	0.003	0.00001
12/23/03	800	-0.068	762	0	0.393	351.4	32.36	94.6	9.05	0.03257
12/23/03	900	1.927	762	0	0.65	307.4	76.9	87.2	113.7	0.40941
12/23/03	1000	4.304	762	0	0.305	333.9	61.3	82.2	90	0.32391
12/23/03	1100	7.26	762	0	1.11	251.4	44.86	68.02	231.7	0.83401
12/23/03	1200	13.27	761	0	5.036	209.7	21.36	58.21	335.7	1.2085
12/23/03	1300	14.63	760	0	4.458	205	17.21	56.07	102.9	0.3703
12/23/03	1400	15.39	759	0	3.693	204.7	18.99	53.7	140.2	0.50459
12/23/03	1500	15.76	759	0	3.513	201.8	18.01	52.16	145.5	0.52374
12/23/03	1600	15.48	758	0	2.657	197.2	17.9	54.23	35.74	0.12866
12/23/03	1700	13.16	758	0.2	1.504	220.4	28.65	84.8	9.82	0.03535
12/23/03	1800	10.54	758	0.6	0.562	181.7	74.3	92.6	0.769	0.00277
12/23/03	1900	10	758	1.6	2.208	251.4	31.87	95.5	0.001	0
12/23/03	2000	10.28	758	0.9	1.901	176.7	22.23	94.8	0.001	0
12/23/03	2100	10.41	758	0.8	2.219	168.7	21.01	94.5	0	0
12/23/03	2200	10.43	757	0	1.262	221.2	55.03	94.4	0	0
12/23/03	2300	9.99	757	0.4	0.761	217.4	28.71	96.2	0	0
12/23/03	2400	8.61	757	0.2	2.565	270.9	21.91	94.2	0	0
12/24/03	100	6.267	757	0.2	2.789	275.2	19.83	91.2	0	0
12/24/03	200	5.419	757	0	2.832	270.6	17.73	92.1	0	0
12/24/03	300	3.784	758	0.1	2.862	264.2	16.99	89.6	0.001	0
12/24/03	400	3.149	758	0.1	1.704	266.9	20.5	90	0.003	0.00001
12/24/03	500	2.222	759	0	2.234	273.3	17.93	88.6	0.006	0.00002
12/24/03	600	1.622	759	0	2.379	272.1	19.03	88.3	0.003	0.00001
12/24/03	700	1.377	760	0	1.977	288.8	18.76	88.5	0.002	0.00001
12/24/03	800	1.099	761	0	1.591	280.5	26.56	86.6	1.06	0.00382
12/24/03	900	0.969	762	0	1.614	289.2	23.39	83.5	21.67	0.07799
12/24/03	1000	1.006	762	0	1.632	350.3	34.05	77.6	43.3	0.15589

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/24/03	1100	1.109	762	0	1.89	2.385	20.18	75.8	100.2	0.36061
12/24/03	1200	1.34	762	0	1.21	343.3	43.03	72.9	126.1	0.45382
12/24/03	1300	1.67	761	0	1.412	326.8	42.5	67.29	152.3	0.54838
12/24/03	1400	2.142	761	0	2.74	271.8	28.61	63.71	358	1.2887
12/24/03	1500	2.503	761	0	2.801	256.5	32.27	58.26	436.5	1.5713
12/24/03	1600	2.602	761	0	2.976	248.5	18.13	56.02	280.6	1.0103
12/24/03	1700	2.034	762	0	3.06	260	17.59	60.41	91.4	0.32912
12/24/03	1800	1.334	762	0	1.789	274.8	31.25	60.52	3.501	0.0126
12/24/03	1900	1.069	763	0	1.412	314.1	42.87	60.72	0.012	0.00004
12/24/03	2000	0.731	763	0	2.24	293.9	33.74	60.08	0.01	0.00003
12/24/03	2100	0.454	764	0	1.784	277	24.46	59.65	0.007	0.00003
12/24/03	2200	0.373	764	0	1.347	266.3	22.14	62.19	0.007	0.00003
12/24/03	2300	0.217	763	0	1.884	273.8	25.86	58.51	0.015	0.00005
12/24/03	2400	-0.101	763	0	2.324	268.8	19.26	60.92	0.006	0.00002
12/25/03	100	-0.231	763	0	2.022	269.1	22.71	62.89	0.008	0.00003
12/25/03	200	-0.347	764	0	1.732	311.7	34.25	61.12	0.004	0.00001
12/25/03	300	-0.391	764	0	1.064	281.3	23.59	63.63	0.006	0.00002
12/25/03	400	-0.445	764	0	1.475	272.3	21.64	61.33	0.007	0.00002
12/25/03	500	-0.583	765	0	1.384	294.4	25.97	60.06	0.006	0.00002
12/25/03	600	-0.783	765	0	1.986	274.1	24.25	64.3	0.006	0.00002
12/25/03	700	-0.786	765	0	1.603	283.2	33.05	66.81	0.006	0.00002
12/25/03	800	-0.904	765	0	2.231	287.6	27.46	66.84	1.979	0.00713
12/25/03	900	-1.233	766	0	2.149	266	19.95	68.15	57.29	0.20626
12/25/03	1000	-1.066	767	0	1.981	274.4	19.56	65.24	112.6	0.40531
12/25/03	1100	-0.319	767	0	1.726	293.3	57.63	60.72	341.3	1.2286
12/25/03	1200	0.819	767	0	1.411	246.5	55.24	57.94	416.2	1.4984
12/25/03	1300	1.801	767	0	1.567	182.1	61.64	52.91	520.9	1.8751
12/25/03	1400	2.705	767	0	1.786	256.3	59.5	47.97	488.7	1.7592
12/25/03	1500	3.455	766	0	1.83	273.7	45.82	43.16	408.5	1.4704
12/25/03	1600	4.217	766	0	1.246	230.3	69.94	47.24	278.2	1.0017
12/25/03	1700	3.914	767	0	0.98	199.9	39.42	49.94	66.22	0.23839
12/25/03	1800	1.998	767	0	1.156	172.6	33.85	60.51	3.719	0.01339
12/25/03	1900	0.291	767	0	0.511	245.6	45.95	71.5	0.007	0.00002
12/25/03	2000	-0.809	768	0	0.315	320	31.02	78.3	0.003	0.00001
12/25/03	2100	-1.7	768	0	0.276	307.6	20.35	81.6	0.001	0
12/25/03	2200	-2.357	768	0	0.418	318.4	44.76	85.2	0	0
12/25/03	2300	-2.845	768	0	0.54	16.88	20.54	88.2	0.001	0
12/25/03	2400	-3.463	768	0	0.548	16.03	23.19	90.2	0	0
12/26/03	100	-3.929	768	0	0.488	23.96	12.31	90.7	0	0
12/26/03	200	-4.543	768	0	0.357	317.1	51.71	93.5	0	0
12/26/03	300	-5.004	769	0	0.418	16.01	48.2	93.8	0	0
12/26/03	400	-5.18	769	0	0.475	36.87	4.738	93.3	0	0
12/26/03	500	-5.54	770	0	0.774	37.32	19.18	93.6	0	0



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/26/03	600	-5.597	770	0	0.706	43.95	7.66	93.1	0	0
12/26/03	700	-5.738	770	0	0.659	26.34	15.01	92.8	0	0
12/26/03	800	-5.75	770	0	0.754	25.68	19.86	92.6	3.207	0.01155
12/26/03	900	-4.677	771	0	0.778	46.08	13.82	84.5	106	0.3817
12/26/03	1000	-1.973	771	0	1.212	72.9	10.13	76.6	276.4	0.99495
12/26/03	1100	1.304	772	0	2.036	34.44	33.38	60.28	407.3	1.4663
12/26/03	1200	3.38	771	0	2.979	37.59	18.24	50.08	490.4	1.7653
12/26/03	1300	5.166	771	0	2.433	37.28	23.8	42.66	520.9	1.8752
12/26/03	1400	6.581	770	0	2.587	41.47	21.09	37.84	492.8	1.7741
12/26/03	1500	7.72	769	0	2.88	27.87	17.62	32.33	408.9	1.4719
12/26/03	1600	8.4	769	0	2.359	28.29	18.13	31.72	282	1.0152
12/26/03	1700	8.32	769	0	2.2	11.88	17.48	30.06	125.3	0.45115
12/26/03	1800	6.25	770	0	0.599	356	29.19	47.47	5.243	0.01888
12/26/03	1900	3.247	770	0	0.493	18.76	26.91	57.27	0.002	0.00001
12/26/03	2000	1.332	770	0	0.478	20.82	23.13	68.64	0.006	0.00002
12/26/03	2100	-0.161	770	0	0.376	16.51	27.63	77.9	0.005	0.00002
12/26/03	2200	-1.056	770	0	0.79	28.41	16.39	76.4	0.007	0.00002
12/26/03	2300	-1.476	770	0	0.885	31.05	12.72	81	0.006	0.00002
12/26/03	2400	-2.248	769	0	0.445	35.92	15.61	83.6	0.002	0.00001
12/27/03	100	-2.814	770	0	0.657	38.25	13.84	81.9	0.001	0
12/27/03	200	-3.238	769	0	0.439	39.13	18.97	88.3	0.001	0
12/27/03	300	-3.676	769	0	0.58	33.74	16.28	89	0.001	0
12/27/03	400	-3.82	769	0	0.274	21.51	24.2	88.5	0.001	0
12/27/03	500	-3.811	769	0	0.265	38.63	27.22	87.9	0	0
12/27/03	600	-3.972	769	0	0.072	331	19.29	88.5	0	0
12/27/03	700	-4.188	769	0	0.132	336.3	25.18	87.5	0	0
12/27/03	800	-4.312	769	0	0.332	266.4	12.09	90.6	2.883	0.01038
12/27/03	900	-3.303	770	0	0.301	344	48.79	82	98.7	0.35517
12/27/03	1000	0.406	770	0	1.126	66.03	17.96	65.1	270.3	0.97309
12/27/03	1100	4.204	770	0	1.445	60.99	27.77	49.61	401.2	1.4443
12/27/03	1200	6.751	770	0	1.004	34.3	51.35	39.98	486.9	1.7527
12/27/03	1300	8.81	769	0	0.707	64.36	87.5	34.1	517.7	1.8638
12/27/03	1400	10.75	768	0	0.626	201.6	61.03	32.53	489.8	1.7633
12/27/03	1500	11.62	768	0	1.162	137.4	53.75	32.26	407.5	1.4669
12/27/03	1600	11.92	768	0	1.427	148.1	21.23	29.45	279.6	1.0066
12/27/03	1700	11.66	768	0	1.464	146.3	13.71	33.29	123.8	0.44578
12/27/03	1800	8.2	768	0	0.565	251.9	69.6	51	4.92	0.01771
12/27/03	1900	5.678	768	0	0.364	334	30.67	58.37	0	0
12/27/03	2000	4.007	767	0	0.528	10.79	26.78	64.55	0.002	0.00001
12/27/03	2100	2.368	767	0	0.306	344.1	32.59	73.5	0.007	0.00002
12/27/03	2200	0.992	767	0	0.582	15.72	44.42	77.3	0.008	0.00003
12/27/03	2300	-0.048	767	0	0.438	285.9	52.72	82	0.004	0.00001
12/27/03	2400	-0.512	767	0	0.358	303.1	31.21	82.3	0.002	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/28/03	100	-1.116	767	0	0.332	16.66	16.28	85.6	0.001	0
12/28/03	200	-1.765	767	0	0.3	1.083	17.6	87.7	0.002	0.00001
12/28/03	300	-2.184	767	0	0.55	346.4	62.44	89.8	0.001	0
12/28/03	400	-2.76	768	0	0.283	282.8	23.9	90.6	0	0
12/28/03	500	-3.123	768	0	0.111	312.5	8.59	91.5	0.002	0.00001
12/28/03	600	-3.4	768	0	0.094	321.9	12.79	92.2	0.001	0
12/28/03	700	-3.473	768	0	0.384	8.11	28.75	92.1	0	0
12/28/03	800	-3.707	768	0	0.3	2.113	14.23	93	2.952	0.01063
12/28/03	900	-2.315	769	0	0.264	12	17.43	82.4	97.8	0.35209
12/28/03	1000	1.85	769	0	0.158	80.1	6.912	69.74	261.2	0.94022
12/28/03	1100	4.935	769	0	0.299	98.5	19.68	62.14	303.6	1.0928
12/28/03	1200	9.11	769	0	0.426	177	36.29	44.39	475.6	1.712
12/28/03	1300	10.38	768	0	0.986	225.5	25.35	39.57	278.3	1.0018
12/28/03	1400	11.89	767	0	0.799	177.8	77.8	40.57	386.7	1.392
12/28/03	1500	12.96	766	0	1.022	50.12	67.44	37.9	238.8	0.85976
12/28/03	1600	13.27	766	0	1.314	80.1	39.18	38.17	237.9	0.85642
12/28/03	1700	12.81	766	0	0.952	99.2	34.35	42.28	75.8	0.27285
12/28/03	1800	10.05	766	0	0.701	188.7	48.43	51.5	4.971	0.0179
12/28/03	1900	8	766	0	0.463	312.7	71.9	60.4	0	0
12/28/03	2000	6.177	766	0	0.371	289.7	50.93	66.84	0.001	0
12/28/03	2100	5.077	766	0	0.582	273	45.36	71.5	0.004	0.00001
12/28/03	2200	4.329	766	0	0.44	346.1	33.43	77.1	0.012	0.00004
12/28/03	2300	3.83	765	0	0.365	335.9	34.81	79.7	0.012	0.00004
12/28/03	2400	2.971	765	0	0.503	280.3	29.11	81.4	0.01	0.00003
12/29/03	100	1.828	766	0	0.345	327.7	37.19	85.8	0.01	0.00004
12/29/03	200	0.847	765	0	0.928	258.9	38.15	89.9	0.004	0.00001
12/29/03	300	0.583	765	0	0.246	347	45.6	89.2	0.004	0.00002
12/29/03	400	0.609	765	0	0.366	347.3	41.86	89.3	0.013	0.00005
12/29/03	500	0.649	765	0	0.431	0.955	47.68	88.1	0.01	0.00004
12/29/03	600	0.496	765	0	0.356	23.25	65.74	87	0.004	0.00001
12/29/03	700	1.422	765	0	0.375	12.6	33.3	83.3	0.011	0.00004
12/29/03	800	1.397	764	0	0.244	333.8	22.12	83.7	4.633	0.01668
12/29/03	900	2.273	764	0	0.464	14.88	37.97	77.2	80.5	0.28993
12/29/03	1000	4.611	765	0	0.626	29.6	31.8	65.85	131.6	0.47367
12/29/03	1100	8.67	765	0	0.758	12.18	28.96	53.68	325.3	1.171
12/29/03	1200	12.52	764	0	0.909	7.53	49.6	50.73	411	1.4797
12/29/03	1300	16.55	763	0	5.065	197.1	19.67	53.12	471.5	1.6973
12/29/03	1400	17.32	761	0	5.653	204.4	18.07	49.21	338.1	1.2171
12/29/03	1500	17.5	761	0	6.618	203.7	19.35	49.94	285.1	1.0262
12/29/03	1600	17.23	761	0	4.445	192	18.58	51.68	108.3	0.38977
12/29/03	1700	16.57	760	0	3.209	193	19.64	53.72	14.44	0.05198
12/29/03	1800	16.03	760	0	2.314	202.6	20.84	55.93	0.872	0.00314
12/29/03	1900	15.9	759	0	2.994	205.6	17.91	58.21	0.002	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/29/03	2000	14.94	759	0.1	3.251	213.6	16.01	82.4	0.002	0.00001
12/29/03	2100	12.41	759	0.1	2.581	210.6	16.88	86.5	0.004	0.00001
12/29/03	2200	12.7	759	0	2.686	210.7	15.8	82.3	0.007	0.00002
12/29/03	2300	13.59	757	0.1	3.643	210.6	15.7	77.9	0.007	0.00003
12/29/03	2400	9.65	757	2	6.035	275.4	23.95	87.4	0.009	0.00003
12/30/03	100	5.342	760	0.4	4.708	287.9	30.42	86	0	0
12/30/03	200	3.581	763	0.5	3.347	244.7	23.44	90.4	0.001	0
12/30/03	300	3.139	765	0	2.496	230.5	16.46	88.3	0.007	0.00003
12/30/03	400	2.459	765	0	1.431	234.2	17.84	91.5	0.006	0.00002
12/30/03	500	1.89	766	0	1.649	234.9	25.52	88.8	0.013	0.00005
12/30/03	600	2.139	766	0	1.681	257.4	34.99	90.6	0.012	0.00004
12/30/03	700	0.861	767	0	0.763	10.87	27.78	95.1	0.012	0.00004
12/30/03	800	1.161	767	0	1.609	34.67	32.01	81.5	2.503	0.00901
12/30/03	900	0.976	768	0	0.536	16.81	34.39	82.9	103.6	0.37306
12/30/03	1000	3.036	769	0	1.175	52.04	25.96	65.75	274.5	0.98825
12/30/03	1100	4.576	769	0	2.245	53.56	26.8	59.2	407.9	1.4683
12/30/03	1200	5.362	769	0	2.444	47.97	36.2	59.16	493.1	1.7753
12/30/03	1300	6.139	769	0	1.702	26.96	43.76	52.3	522.1	1.8795
12/30/03	1400	7.12	769	0	1.845	40.35	66.49	47.35	497	1.7892
12/30/03	1500	7.92	768	0	1.135	70	61.01	45.98	416.3	1.4987
12/30/03	1600	8.44	769	0	1.431	21.98	54.26	44.88	288.3	1.0379
12/30/03	1700	8.48	769	0	1.394	39.64	39.06	49.49	132.4	0.47652
12/30/03	1800	6.494	769	0	0.296	227.7	82.1	61.57	5.776	0.02079
12/30/03	1900	4.308	769	0	0.321	290.4	40.79	71	0.003	0.00001
12/30/03	2000	2.761	769	0	0.419	301.4	38.17	79.8	0.01	0.00003
12/30/03	2100	1.349	770	0	0.61	17.64	38.76	85.4	0.003	0.00001
12/30/03	2200	0.494	770	0	0.606	5.435	25.55	88.8	0.002	0.00001
12/30/03	2300	-0.424	770	0	0.655	9.97	42.94	90.8	0.001	0
12/30/03	2400	-1.052	770	0	0.828	23.27	23.86	91.5	0	0
12/31/03	100	-1.683	769	0	0.285	355.8	38.75	93.6	0.001	0
12/31/03	200	-2.246	769	0	0.458	300.8	51.24	94.9	0	0
12/31/03	300	-2.469	769	0	0.282	20.46	25.22	94.8	0	0
12/31/03	400	-2.734	770	0	0.709	22.48	14.92	94.8	0.001	0
12/31/03	500	-3.083	769	0	0.401	3.819	34.02	95.1	0	0
12/31/03	600	-3.309	770	0	0.627	16.48	39.9	95.2	0	0
12/31/03	700	-3.326	770	0	0.633	16.68	26.93	93.9	0	0
12/31/03	800	-3.388	770	0	0.615	321.9	54.12	93.2	2.493	0.00898
12/31/03	900	-3.088	770	0	0.746	227.5	37.99	92	91.1	0.32805
12/31/03	1000	0.046	771	0	0.301	168.3	54.7	81.6	263.4	0.94829
12/31/03	1100	3.945	772	0	0.349	186.9	56.83	67.72	401.6	1.4458
12/31/03	1200	6.204	772	0	2.006	227.2	27.88	53.31	480.1	1.7283
12/31/03	1300	8.94	771	0	2.972	213.4	17.86	47.22	505.8	1.8209
12/31/03	1400	10.25	770	0	4.145	224.2	15.97	39.81	492.8	1.7739

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
12/31/03	1500	11.63	769	0	4.482	228.2	17.73	33.9	416.1	1.4979
12/31/03	1600	12.18	769	0	3.302	215.3	16.73	33.59	287.7	1.0358
12/31/03	1700	12.11	769	0	2.697	219.7	15.84	36.5	140.9	0.50733
12/31/03	1800	10.14	770	0	1.341	230.9	23.31	50.3	7.74	0.02787
12/31/03	1900	6.896	770	0	0.465	320.6	31.81	62.84	0	0
12/31/03	2000	4.62	770	0	0.346	313.6	43.62	71.8	0.004	0.00001
12/31/03	2100	2.874	770	0	0.666	301.5	56.35	78.9	0.009	0.00003
12/31/03	2200	1.608	770	0	0.368	357.4	47.84	83.2	0.004	0.00001
12/31/03	2300	0.786	770	0	0.247	359	27.14	85.8	0.003	0.00001
12/31/03	2400	-0.049	770	0	0.694	285.6	53.73	88.1	0	0
1/1/04	100	-0.441	770	0	0.47	23.68	19.4	89.5	0.001	0
1/1/04	200	-1.009	770	0	0.383	279.6	20.55	91.6	0.001	0
1/1/04	300	-1.395	770	0	0.278	341.3	26.1	92	0	0
1/1/04	400	-1.778	771	0	0.116	343.5	27.24	92.9	0	0
1/1/04	500	-1.999	771	0	0.237	322.4	32.77	93.6	0	0
1/1/04	600	-2.267	771	0	0.146	12.64	15.73	94.3	0	0
1/1/04	700	-2.499	771	0	0.595	31.47	13.68	94.5	0	0
1/1/04	800	-2.566	771	0	0.662	24.28	22.1	94.4	4.437	0.01597
1/1/04	900	-2.082	771	0	0.835	18.56	34.64	93.2	57.98	0.20874
1/1/04	1000	1.149	772	0	0.477	86.5	69.64	76.8	261.6	0.94179
1/1/04	1100	5.154	773	0	0.652	53.16	69.11	62.44	321.2	1.1565
1/1/04	1200	7.66	772	0	1.029	199.8	55.74	53.04	300.1	1.0802
1/1/04	1300	9.34	771	0	1.051	234.7	63.88	48.66	440	1.584
1/1/04	1400	11.11	771	0	1.888	230	29.69	40.07	436.2	1.5702
1/1/04	1500	11.78	770	0	1.913	168.7	23.31	39.17	164.2	0.59101
1/1/04	1600	11.35	769	0	1.427	203.3	28.63	41.28	55.8	0.20087
1/1/04	1700	11.15	769	0	0.861	242.6	35.65	44.41	48.76	0.17555
1/1/04	1800	10.77	769	0	0.906	242.4	40.2	55.51	3.963	0.01427
1/1/04	1900	8.45	769	0	1.117	233.7	30.65	63.5	0	0
1/1/04	2000	8.44	769	0	0.795	245.1	56.87	64.04	0	0
1/1/04	2100	7.75	769	0	0.349	4.353	52.72	70.1	0	0
1/1/04	2200	6.153	768	0	0.414	257.4	39.36	75.1	0.001	0
1/1/04	2300	5.814	769	0	0.335	331.8	57.68	77.5	0.005	0.00002
1/1/04	2400	5.575	768	0	0.451	349.7	38.15	79.1	0.003	0.00001
1/2/04	100	5.469	768	0	0.452	28.61	37.21	82.9	0.005	0.00002
1/2/04	200	5.336	767	0	0.349	343.9	69.66	82	0.006	0.00002
1/2/04	300	5.624	767	0	0.453	310.7	62.78	83.7	0.006	0.00002
1/2/04	400	5.859	767	0	0.839	19.31	42.34	83.1	0.003	0.00001
1/2/04	500	6.428	768	0	0.267	337.4	40.75	84.3	0.001	0
1/2/04	600	7.45	767	0	0.699	195.4	60.96	66.98	0	0
1/2/04	700	8.41	766	0	1.026	159.5	64.6	69.72	0	0
1/2/04	800	8.3	766	0	0.592	5.402	46.92	71	5.296	0.01907
1/2/04	900	8.9	766	0	0.44	21	61.63	65.87	42.58	0.15329

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/2/04	1000	10.23	767	0	0.333	23.76	75.8	59.08	64.64	0.23272
1/2/04	1100	11.15	767	0	0.677	31.27	57.15	60.18	44.78	0.16119
1/2/04	1200	11.8	767	0	0.876	13.83	22.29	56.24	65.39	0.23541
1/2/04	1300	12.49	767	0	1.141	60.55	61.03	58.24	81.3	0.29257
1/2/04	1400	13.18	765	0	0.851	128.1	59.34	58.27	60.5	0.2178
1/2/04	1500	13.25	765	0	1.037	353.7	17.55	58.94	31.05	0.11177
1/2/04	1600	13.03	765	0	1.386	23.16	20.14	58.81	46.07	0.16585
1/2/04	1700	13.18	765	0	0.653	17.99	34.83	61.88	27.44	0.09877
1/2/04	1800	12.98	765	0	0.758	34.71	49.1	66.39	4.355	0.01568
1/2/04	1900	12.45	765	0	0.992	162.8	57.82	69.36	0.005	0.00002
1/2/04	2000	12.05	764	0	1.366	182.1	16.6	71.6	0.007	0.00002
1/2/04	2100	12.13	764	0	1.019	184.1	54.47	85.1	0.014	0.00005
1/2/04	2200	15.48	764	0	2.56	224.1	16.67	82.2	0.01	0.00004
1/2/04	2300	15.78	765	0	1.795	204.1	20.13	81.6	0.003	0.00001
1/2/04	2400	15.85	765	0	2.353	202.5	15.43	83.2	0	0
1/3/04	100	16.17	764	0	2.951	214.3	16.77	81.5	0.001	0
1/3/04	200	16.45	764	0	3.454	217	14.7	82.9	0	0
1/3/04	300	16.27	764	0	3.273	214.4	15.88	84.7	0	0
1/3/04	400	15.92	764	0	2.453	208.5	17.18	85.9	0	0
1/3/04	500	15.75	764	0	2.756	208.6	14.01	88.4	0	0
1/3/04	600	15.67	764	0	2.915	200.6	14.85	89.4	0	0
1/3/04	700	15.73	764	0	2.937	191.7	15.61	89.2	0	0
1/3/04	800	15.78	764	0	2.214	207.1	16.68	88.5	0.235	0.00085
1/3/04	900	15.75	764	0	1.2	215	20.23	89.4	3.881	0.01397
1/3/04	1000	15.78	765	0	1.122	203.5	16.26	90.9	12.68	0.04565
1/3/04	1100	15.91	765	0	1.93	194.7	19.52	87.8	28.11	0.1012
1/3/04	1200	17.1	765	0	3.062	204.1	16.32	80.9	59.85	0.21546
1/3/04	1300	18.05	764	0	3.55	212	16.96	77.2	99.1	0.35659
1/3/04	1400	18.5	763	0	3.633	212.4	16.65	73.7	104.2	0.37525
1/3/04	1500	19.39	762	0	4.313	211.3	16.73	69.9	164.1	0.59062
1/3/04	1600	19.77	762	0	4.68	209	17.33	68.97	141.5	0.50955
1/3/04	1700	19.95	762	0	4.156	212.8	16.15	69.94	47.88	0.17236
1/3/04	1800	19.43	762	0	4.104	205.3	16.35	73.3	0.891	0.00321
1/3/04	1900	19.07	763	0	3.147	200.4	17.7	75.3	0	0
1/3/04	2000	18.81	763	0	3.309	201.4	16.57	77.1	0	0
1/3/04	2100	18.66	763	0	3.217	201.8	14.72	78.1	0	0
1/3/04	2200	18.42	763	0	2.544	210.7	14.61	81.8	0	0
1/3/04	2300	18.16	763	0	2.443	207.8	16.14	82.4	0	0
1/3/04	2400	17.68	763	0	1.403	221.4	18.21	85.5	0	0
1/4/04	100	16.97	763	0.1	1.597	217.4	16.69	90.5	0	0
1/4/04	200	17.08	762	0	2.382	202.4	15.89	85.8	0	0
1/4/04	300	17.6	762	0	3.631	209.8	17.01	86.3	0.001	0
1/4/04	400	17.61	762	0	3.871	206.8	16.32	85	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/4/04	500	17.67	762	0	3.88	205.7	13.86	83.8	0	0
1/4/04	600	17.47	761	0	4.25	210.1	14.11	84.2	0	0
1/4/04	700	17.19	761	0	4.083	207.3	14.88	85.7	0	0
1/4/04	800	17.22	761	0	4.239	212	14.73	85.5	1.255	0.00452
1/4/04	900	17.34	761	0	3.874	211	14.69	83	77.6	0.27927
1/4/04	1000	17.89	762	0	4.214	217.7	16.09	81	112.4	0.40457
1/4/04	1100	18.55	762	0	4.663	216.4	15.42	78.9	129.8	0.46715
1/4/04	1200	19.48	762	0	5.205	211.4	17.33	71.6	266.9	0.96071
1/4/04	1300	20.41	761	0	5.757	216.4	16.7	69.1	306.5	1.1033
1/4/04	1400	20.94	760	0	6.262	212.2	16.84	67.53	282.4	1.0166
1/4/04	1500	20.95	759	0	6.893	215.7	15.11	68.4	229	0.82456
1/4/04	1600	20.76	759	0	6.246	209.2	18.2	67.37	154.6	0.55669
1/4/04	1700	20.35	759	0	5.399	208.6	16.18	70.6	59.34	0.21363
1/4/04	1800	19.97	759	0	4.306	216.2	15.45	68.27	7.38	0.02655
1/4/04	1900	20.06	759	0	3.994	221.8	15.49	68.1	0	0
1/4/04	2000	20.15	759	0	3.768	209.4	14.96	67.23	0	0
1/4/04	2100	19.8	759	0	3.151	208.5	14.69	73	0	0
1/4/04	2200	19.6	758	0	3.433	210.4	17.49	70.1	0	0
1/4/04	2300	20.59	758	0	5.952	210.8	15.98	72.5	0	0
1/4/04	2400	20.11	758	0	5.7	212.1	16.76	76.2	0	0
1/5/04	100	20.01	758	0	5.388	212	18.07	76.4	0.001	0
1/5/04	200	20.01	757	0	5.608	211.7	16.44	76.6	0	0
1/5/04	300	19.3	757	0.5	4.894	214.5	16.01	89	0	0
1/5/04	400	17.97	757	0.5	3.511	214.1	23.43	91.4	0	0
1/5/04	500	17.88	757	0.1	4.083	205.3	15.75	91.9	0	0
1/5/04	600	14.23	757	1.3	3.693	285.2	37.28	88.4	0	0
1/5/04	700	12.01	758	0.9	2.639	285.8	30.18	90.5	0.002	0.00001
1/5/04	800	11.08	759	1.1	3.167	264.3	25.42	91.4	0.25	0.0009
1/5/04	900	10.36	759	1.1	2.69	258.2	32.97	91.2	4.797	0.01727
1/5/04	1000	8.92	760	1.8	2.676	239.8	23.95	92.1	8.1	0.02916
1/5/04	1100	8.03	762	0.4	3.671	273.6	25.98	88.7	24.36	0.08771
1/5/04	1200	7.28	762	0.6	2.425	280.4	21.06	92	54.3	0.19547
1/5/04	1300	6.699	761	0.1	3.061	287.8	18.01	90.8	76.3	0.27457
1/5/04	1400	6.166	761	0	3.449	283.1	20.51	87.2	124.2	0.44714
1/5/04	1500	5.47	762	0	3.682	273	25.19	79.8	187.7	0.67562
1/5/04	1600	4.508	762	0	4.801	271	21.84	82.7	200.5	0.72168
1/5/04	1700	3.759	763	0	4.07	279.8	18.78	80.5	129.8	0.46711
1/5/04	1800	2.469	764	0	2.839	276.3	26.98	83.3	6.743	0.02427
1/5/04	1900	1.894	765	0	4.273	267.7	15.9	79.4	0.015	0.00005
1/5/04	2000	1.509	766	0	3.097	270.3	23.39	79.3	0.014	0.00005
1/5/04	2100	1.416	767	0	2.1	281	25.43	77.4	0.012	0.00004
1/5/04	2200	1.219	767	0	2.448	295.9	18.07	86.5	0.008	0.00003
1/5/04	2300	1.056	767	0	1.772	319.6	44.21	73.8	0.005	0.00002

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/5/04	2400	1.219	768	0	2.188	0.839	20.8	68.74	0.009	0.00003
1/6/04	100	1.222	768	0	1.868	9.36	18.18	69.11	0.011	0.00004
1/6/04	200	1.181	768	0	1.97	12.66	20.91	65.13	0.008	0.00003
1/6/04	300	1.164	769	0	0.881	335	23.64	68.64	0.012	0.00004
1/6/04	400	1	769	0	1.13	301.6	32.77	71.7	0.009	0.00003
1/6/04	500	0.599	769	0	1.351	288.5	31.85	75.2	0.013	0.00005
1/6/04	600	0.345	769	0	1.339	263.9	26.91	73	0.011	0.00004
1/6/04	700	0.143	770	0	1.611	273.4	26.99	69.91	0.013	0.00005
1/6/04	800	-0.246	770	0	1.809	259.5	23.99	68.11	1.859	0.00669
1/6/04	900	-0.184	770	0	2.862	259.2	21.73	68.88	80.2	0.28886
1/6/04	1000	-0.251	771	0	3.179	279.6	22.84	70	101	0.36354
1/6/04	1100	-0.589	772	0	2.833	282.7	32.25	68.74	190.4	0.68559
1/6/04	1200	-0.901	772	0	3.804	280.4	25.82	67.4	152.6	0.54937
1/6/04	1300	-1.238	772	0	4.689	281.4	24.76	61.65	406.4	1.4629
1/6/04	1400	-1.336	772	0	4.611	272.7	22.73	58.64	512.2	1.8438
1/6/04	1500	-1.126	771	0	4.745	268.1	19.37	52.53	435.2	1.5668
1/6/04	1600	-1.338	772	0	4.034	270.4	23.37	47.05	308.9	1.1119
1/6/04	1700	-1.706	772	0	3.665	282.4	22.21	41.94	151.9	0.54678
1/6/04	1800	-2.3	773	0	2.482	280.8	26.88	42.18	11.18	0.04025
1/6/04	1900	-3.015	773	0	2.668	281.8	26.79	43.59	0.002	0.00001
1/6/04	2000	-3.949	773	0	2.743	283.7	30.46	45.09	0	0
1/6/04	2100	-4.728	774	0	3.079	276.3	21.08	47.94	0	0
1/6/04	2200	-5.441	774	0	2.834	269.8	16.31	51.99	0	0
1/6/04	2300	-6.106	774	0	2.48	262.3	21.35	53.79	0	0
1/6/04	2400	-6.801	774	0	1.486	257.2	31.97	56.54	0.001	0
1/7/04	100	-7.24	774	0	2.152	264.3	23.3	56.31	0.005	0.00002
1/7/04	200	-7.61	774	0	2.276	244.1	27.92	60.36	0.007	0.00003
1/7/04	300	-7.98	775	0	2.421	257.4	15.29	54.71	0.003	0.00001
1/7/04	400	-8.5	776	0	1.104	279.7	31.47	60.37	0.001	0
1/7/04	500	-9.3	775	0	0.753	309	31.27	67.02	0.007	0.00003
1/7/04	600	-9.82	775	0	0.568	352.9	44.48	69.23	0.018	0.00006
1/7/04	700	-10.12	776	0	0.721	302.9	52.67	73.6	0.02	0.00007
1/7/04	800	-10.16	776	0	0.803	344.6	44.83	74.1	4.933	0.01776
1/7/04	900	-9.85	775	0	1.352	43	24.45	69.23	89.3	0.32161
1/7/04	1000	-7.84	776	0	1.344	62.17	41.63	45.91	278.9	1.0039
1/7/04	1100	-6.373	776	0	1.397	81.8	51.06	48.17	397.9	1.4326
1/7/04	1200	-5.418	776	0	1.247	189.4	47.35	43.08	505	1.8179
1/7/04	1300	-4.26	776	0	2.439	246.9	53.96	40.9	556.1	2.0021
1/7/04	1400	-3.604	775	0	2.329	269.4	39.1	35.46	401	1.4436
1/7/04	1500	-2.744	774	0	1.29	300.4	73.4	33.65	384.1	1.3829
1/7/04	1600	-2.627	774	0	1.73	160.5	34.09	40.63	215.2	0.77475
1/7/04	1700	-2.783	774	0	1.361	166.8	22.41	37.1	49.08	0.17669
1/7/04	1800	-2.655	774	0	1.439	145.3	20.75	37	6.248	0.02249

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/7/04	1900	-2.723	773	0	0.934	226.5	32.18	41.51	0	0
1/7/04	2000	-2.851	773	0	0.782	284.6	42.12	46.09	0	0
1/7/04	2100	-3.657	773	0	0.733	283.9	62.68	53.65	0	0
1/7/04	2200	-4.134	772	0	0.731	18.72	31.46	60.38	0	0
1/7/04	2300	-4.741	772	0	0.82	261.7	49.43	67.27	0	0
1/7/04	2400	-4.638	772	0	0.454	330	64.18	64.29	0	0
1/8/04	100	-4.263	772	0	0.624	322.2	59.83	65.39	0	0
1/8/04	200	-4.295	772	0	0.601	312.4	57.41	68.96	0	0
1/8/04	300	-4.159	772	0	0.904	20.98	37.88	63.25	0	0
1/8/04	400	-3.916	772	0	0.67	7.29	31.15	66.52	0	0
1/8/04	500	-3.884	771	0	1.043	32.2	25.22	67.79	0	0
1/8/04	600	-3.694	771	0	0.856	26.87	36.67	67.52	0	0
1/8/04	700	-3.326	771	0	1.057	22.51	28.44	70	0	0
1/8/04	800	-3.23	771	0	1.362	12.37	24.57	68.52	1.317	0.00474
1/8/04	900	-2.976	771	0	1.491	359.4	18.67	63.3	21.66	0.07797
1/8/04	1000	-2.548	771	0	1.105	17.39	32.47	60.36	84.5	0.30423
1/8/04	1100	-1.763	771	0	0.929	269.5	100.8	53.71	117.1	0.4216
1/8/04	1200	-1.078	771	0	0.779	47.88	63.03	51.86	122.9	0.4425
1/8/04	1300	-0.606	770	0	0.763	331.8	35.46	53.83	89.2	0.32127
1/8/04	1400	-0.222	769	0	0.743	205.9	57.36	50.89	98.2	0.35347
1/8/04	1500	0.238	768	0	1.169	238.9	27.92	49.92	96.7	0.34826
1/8/04	1600	0.44	768	0	0.8	208.1	53.15	49.26	36.5	0.13141
1/8/04	1700	0.583	768	0	0.956	104.1	24.67	49.56	17.46	0.06286
1/8/04	1800	0.582	767	0	0.752	198.9	55.06	52.53	2.626	0.00946
1/8/04	1900	0.541	767	0	0.801	324.6	36.02	57.24	0.006	0.00002
1/8/04	2000	0.153	768	0	1.298	21.48	43.43	59.01	0.003	0.00001
1/8/04	2100	0.026	767	0	0.838	67.12	19.38	59.35	0.003	0.00001
1/8/04	2200	-0.004	767	0	0.676	290.9	76	67.07	0.001	0
1/8/04	2300	-0.27	766	0	1.117	30.18	33.11	71	0.002	0.00001
1/8/04	2400	-0.599	766	0	1.146	46.76	16.83	80.1	0.002	0.00001
1/9/04	100	-0.994	765	0	0.973	13.5	20.39	87.9	0.001	0
1/9/04	200	-1.378	765	0	1.395	11	28.05	93.4	0.001	0
1/9/04	300	-1.7	765	0	1.108	44.61	16.49	96.1	0.001	0
1/9/04	400	-1.754	764	0	0.946	56.79	21.69	96.5	0.001	0
1/9/04	500	-1.991	764	0	1.015	46.27	27.43	97.2	0	0
1/9/04	600	-1.893	764	0	0.749	48.56	28.16	97.5	0.001	0
1/9/04	700	-1.722	764	0	0.445	27.57	22.74	97.4	0	0
1/9/04	800	-1.558	764	0	0.467	20.45	26.58	97.3	0.147	0.00053
1/9/04	900	-1.429	764	0	0.869	25.87	25.98	97.4	4.313	0.01553
1/9/04	1000	-1.117	764	0	0.923	17.93	18.92	96.8	12.71	0.04574
1/9/04	1100	-0.896	764	0	1.566	6.494	19.35	95.7	26.54	0.09555
1/9/04	1200	-0.641	765	0	1.636	28.43	19.03	95.4	50.62	0.18225
1/9/04	1300	-0.125	764	0.5	1.66	30.33	23.14	91	113.2	0.40745



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/9/04	1400	0.269	764	0.2	1.715	9.7	21.02	87.7	122.1	0.43963
1/9/04	1500	0.511	764	0.4	1.99	17.54	20.01	86.2	109.1	0.3929
1/9/04	1600	0.793	764	0.4	1.712	21.5	20.73	85.1	72.4	0.26067
1/9/04	1700	0.989	764	0.1	2.106	26.41	15.75	82.9	46.45	0.16721
1/9/04	1800	0.762	764	0.1	3.471	28.55	12.15	80.2	7.98	0.02873
1/9/04	1900	0.575	765	0	2.379	26.99	15.07	79.4	0.009	0.00003
1/9/04	2000	0.478	765	0	2.18	27.68	15.79	78.5	0.001	0
1/9/04	2100	0.257	765	0	2.668	27.87	14.25	77.1	0.004	0.00002
1/9/04	2200	-0.052	766	0	3.036	26.9	15.01	76.1	0.002	0.00001
1/9/04	2300	-0.357	766	0	2.896	21.58	16.95	76.6	0.003	0.00001
1/9/04	2400	-0.687	767	0	3.236	23.4	18.05	74.9	0.001	0
1/10/04	100	-1.028	767	0	3.129	28.6	17.18	77.3	0.002	0.00001
1/10/04	200	-1.362	767	0	3.126	29.67	16.64	75.8	0.001	0
1/10/04	300	-1.568	768	0	3.273	30.98	14.78	75	0	0
1/10/04	400	-1.785	768	0	3.108	32.59	13.38	74.4	0	0
1/10/04	500	-1.984	768	0	2.881	34.69	12.78	74.1	0	0
1/10/04	600	-2.148	768	0	3.056	31.5	13.47	73.2	0	0
1/10/04	700	-2.365	768	0	3.052	32.35	14.09	74.8	0	0
1/10/04	800	-2.644	769	0	3.066	33.19	13.52	71.8	0.969	0.00349
1/10/04	900	-2.975	769	0	3.582	27.33	14.81	71	21.78	0.07842
1/10/04	1000	-3.059	770	0	3.698	28.81	15.34	67.85	97.3	0.35029
1/10/04	1100	-2.872	770	0	4.03	26.96	13.45	64.77	209.1	0.75272
1/10/04	1200	-2.291	771	0	3.167	40.01	19.58	60.36	365.9	1.3171
1/10/04	1300	-1.313	771	0	2.794	41.78	28.87	59.75	530.8	1.911
1/10/04	1400	-0.673	770	0	2.277	47.91	25.75	57.6	518.2	1.8657
1/10/04	1500	0.14	770	0	1.711	38.53	84.1	50.89	435.6	1.5681
1/10/04	1600	0.631	770	0	1.778	13.55	62.67	49.98	264.1	0.9508
1/10/04	1700	0.592	770	0	2.075	36.45	22.46	51.92	113.5	0.40877
1/10/04	1800	0.012	770	0	1.202	29.26	21.54	51.93	9.55	0.03439
1/10/04	1900	-0.929	770	0	0.825	349.3	62.5	57.52	0.002	0.00001
1/10/04	2000	-1.781	771	0	0.641	35.56	35.38	55.09	0	0
1/10/04	2100	-2.46	771	0	0.683	36.96	38.01	62.51	0	0
1/10/04	2200	-3.528	771	0	0.675	19.36	19.13	67.3	0	0
1/10/04	2300	-4.316	771	0	0.419	356.1	36.63	70.3	0	0
1/10/04	2400	-4.845	771	0	0.501	359.2	47.7	73.6	0	0
1/11/04	100	-5.938	771	0	0.356	277.7	38.27	79.9	0.001	0
1/11/04	200	-6.403	771	0	0.376	270.5	30.24	83.2	0.004	0.00001
1/11/04	300	-7.02	771	0	0.758	255.7	32.89	88.9	0.005	0.00002
1/11/04	400	-7.41	771	0	0.626	268.3	33.37	89.3	0.005	0.00002
1/11/04	500	-7.85	771	0	0.856	262.7	21.03	90.3	0.002	0.00001
1/11/04	600	-8.13	771	0	0.626	300.8	69.11	91	0.006	0.00002
1/11/04	700	-8.14	772	0	0.326	35.12	27.58	90.2	0.004	0.00002
1/11/04	800	-8.06	772	0	0.456	7.38	24.59	88.8	2.515	0.00906

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/11/04	900	-7.3	772	0	0.335	25.18	27.47	83	99	0.35653
1/11/04	1000	-4.286	772	0	0.301	73.7	29.45	72.2	270.4	0.97334
1/11/04	1100	-1.923	772	0	0.923	249.2	30.21	66.53	396.9	1.4287
1/11/04	1200	-0.45	772	0	2.078	243.5	22.78	60.91	485.4	1.7476
1/11/04	1300	1.449	771	0	2.725	216.5	27.1	56.26	522	1.879
1/11/04	1400	2.79	770	0	3.274	233.5	24.11	52.78	504.3	1.8154
1/11/04	1500	4.391	770	0	3.872	232.2	16.09	46.37	428.8	1.5436
1/11/04	1600	5.427	769	0	4.137	223.5	16.04	45.16	306.3	1.1027
1/11/04	1700	5.764	769	0	3.769	217.1	14.99	45.53	155.3	0.55897
1/11/04	1800	4.911	769	0	2.041	211.5	15.76	53.12	15.59	0.05614
1/11/04	1900	3.488	769	0	1.609	226.7	14.69	56.03	0.02	0.00007
1/11/04	2000	2.26	769	0	1.605	226.9	15.23	61.69	0.005	0.00002
1/11/04	2100	1.466	768	0	1.769	232.8	10.62	62.42	0.001	0
1/11/04	2200	1.642	768	0	1.195	215.6	17.8	58.39	0	0
1/11/04	2300	1.951	768	0	1.501	221.7	19.81	59.93	0	0
1/11/04	2400	1.514	768	0	1.211	217.3	27.16	61.5	0.001	0
1/12/04	100	0.992	768	0	0.826	221.3	17.19	63.64	0	0
1/12/04	200	0.591	768	0	0.789	232.3	20.87	67.18	0	0
1/12/04	300	0.739	768	0	1.06	229.9	23.81	61.33	0	0
1/12/04	400	1.303	768	0	1.395	232.4	15.73	62.47	0	0
1/12/04	500	1.151	768	0	1.262	230.8	14.76	63	0	0
1/12/04	600	1.145	768	0	1.535	228.8	13.01	60.19	0	0
1/12/04	700	1.659	768	0	1.433	236.1	17	61.73	0	0
1/12/04	800	0.461	768	0	0.856	258.2	47.18	71.8	3.36	0.0121
1/12/04	900	0.259	769	0	0.332	157.7	69.78	65.21	89.4	0.32191
1/12/04	1000	3.429	769	0	1.787	208.8	16.77	53.26	254.5	0.91628
1/12/04	1100	6.044	769	0	3.808	226.4	16.21	48.17	390.8	1.4067
1/12/04	1200	7.7	769	0	4.579	219	14.97	49.13	405.7	1.4604
1/12/04	1300	9.13	768	0	4.208	221.9	16.55	47.06	352.9	1.2703
1/12/04	1400	10.54	767	0	4.327	225.1	18.08	45.35	422.3	1.5205
1/12/04	1500	11.73	766	0	4.6	234.6	17.24	44.18	366.7	1.32
1/12/04	1600	12.6	766	0	3.636	243	18.98	41.14	269.5	0.97029
1/12/04	1700	12.77	766	0	3.151	228.1	16.18	42.51	159.1	0.57262
1/12/04	1800	11.12	766	0	1.226	222.1	17.54	56.94	17.94	0.0646
1/12/04	1900	7.91	767	0	1.489	240.4	12.97	65.81	0.001	0
1/12/04	2000	5.5	767	0	1.722	239.4	14.09	73.8	0.001	0
1/12/04	2100	4.641	767	0	0.653	270.6	39.44	75.3	0.006	0.00002
1/12/04	2200	3.804	767	0	0.43	315.5	42.75	80.8	0.01	0.00004
1/12/04	2300	2.495	767	0	1.315	253.2	14.19	85	0.008	0.00003
1/12/04	2400	1.709	768	0	0.475	311.5	51.87	86.8	0.003	0.00001
1/13/04	100	0.902	767	0	0.568	282.7	23.04	89.7	0.001	0
1/13/04	200	0.12	768	0	0.925	268	25.21	91.2	0.001	0
1/13/04	300	-0.278	768	0	1.053	265.4	17.27	92	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/13/04	400	-1.104	768	0	1.497	242.5	16.76	94	0	0
1/13/04	500	-1.499	768	0	1.096	233.4	15.22	96	0	0
1/13/04	600	-1.268	767	0	0.479	322.4	50.15	95	0	0
1/13/04	700	-1.474	768	0	0.312	324	44.09	94.2	0	0
1/13/04	800	-1.477	768	0	0.724	272.9	22.25	93.8	2.753	0.00991
1/13/04	900	-1.56	768	0	1.278	234.4	10.39	94.8	80.3	0.28924
1/13/04	1000	1.041	768	0	1.433	222.4	17.99	84.5	244.9	0.88153
1/13/04	1100	5.597	768	0	1.767	218.1	17.13	67.45	400.8	1.443
1/13/04	1200	8.92	768	0	2.382	210.7	21.48	56.41	476.2	1.7144
1/13/04	1300	10.52	767	0	2.912	238.3	35.4	51.19	511.2	1.8404
1/13/04	1400	12.03	767	0	3.201	270.4	25.94	44.11	502.5	1.8091
1/13/04	1500	13.25	766	0	3.321	253.8	20.94	42.07	424	1.5264
1/13/04	1600	14.16	766	0	2.779	246	21.89	38.13	299.8	1.0793
1/13/04	1700	14.37	766	0	2.771	254.9	27.75	31.02	125.2	0.4506
1/13/04	1800	13.29	765	0	1.871	270.8	27.63	37.07	10.44	0.03757
1/13/04	1900	10.35	766	0	1.438	252	15.93	50.3	0.003	0.00001
1/13/04	2000	8.57	766	0	1.684	249.1	16.25	56.56	0	0
1/13/04	2100	6.188	766	0	1.287	262.9	21.65	67.58	0.002	0.00001
1/13/04	2200	4.98	766	0	1.035	273.6	34.64	71.2	0.007	0.00003
1/13/04	2300	4.277	766	0	0.991	279.2	31.54	72	0.009	0.00003
1/13/04	2400	2.682	766	0	0.612	359	45.64	79	0.005	0.00002
1/14/04	100	1.547	766	0	0.767	266.7	50.41	85.3	0.001	0
1/14/04	200	0.191	765	0	0.311	314.7	46.76	87.6	0	0
1/14/04	300	-0.446	765	0	0.438	350.7	48.18	89.2	0	0
1/14/04	400	-1.074	765	0	0.401	342.5	55.46	91	0	0
1/14/04	500	-1.835	765	0	0.527	285.7	59.38	93.2	0	0
1/14/04	600	-2.277	765	0	0.449	283.1	46.15	93.5	0.001	0
1/14/04	700	-2.712	765	0	0.838	262.2	27.62	94.9	0	0
1/14/04	800	-2.865	765	0	0.995	260.9	30.39	94.6	2.74	0.00986
1/14/04	900	-2.65	765	0	1.07	241.7	12.68	93.8	98.5	0.35451
1/14/04	1000	0.385	764	0	0.963	215.8	15.82	81.3	272.4	0.98073
1/14/04	1100	4.863	764	0	2.054	211.7	17.45	62.44	403.1	1.451
1/14/04	1200	7.57	764	0	3.918	229.4	14.12	55.08	482.8	1.738
1/14/04	1300	9.22	763	0	3.837	220.1	18.64	47.62	511	1.8396
1/14/04	1400	10.63	761	0	4.189	219.8	18.12	42.61	498.2	1.7934
1/14/04	1500	11.69	760	0	4.188	218.8	17.24	38.8	427.2	1.5379
1/14/04	1600	12.5	759	0	4.153	214.1	17.13	37.34	306.2	1.1022
1/14/04	1700	12.97	758	0	4.418	216.9	17.26	36.5	155.6	0.56001
1/14/04	1800	12.2	758	0	3.543	216.7	14.67	48.72	18.56	0.06683
1/14/04	1900	11.55	757	0	3.964	229.6	13.79	53.74	0.017	0.00006
1/14/04	2000	11.35	757	0	3.534	213	15.42	60.25	0.002	0.00001
1/14/04	2100	11.15	757	0	4.221	228.8	13.22	64.03	0.004	0.00001
1/14/04	2200	11.25	757	0	4.62	241	14.82	64.66	0.001	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/14/04	2300	11.35	757	0	4.657	253.1	13.93	62.85	0.001	0
1/14/04	2400	11.12	758	0	3.94	242.9	15.54	65.56	0.003	0.00001
1/15/04	100	10.8	757	0	3.244	247.6	15.59	76.3	0.005	0.00002
1/15/04	200	10.22	757	0	3.981	270.3	28.25	67.77	0.002	0.00001
1/15/04	300	7.98	757	0	4.072	298.9	29.5	60.93	0	0
1/15/04	400	6.281	758	0	3.255	278.3	29.4	59.8	0.001	0
1/15/04	500	5.605	759	0	3.087	261	18.77	59.7	0.001	0
1/15/04	600	5.121	760	0	2.775	273.5	22.89	58.99	0.001	0
1/15/04	700	4.587	761	0	2.047	306.4	36.8	59.63	0.001	0
1/15/04	800	3.862	762	0	1.674	332.8	33.72	60.17	1.24	0.00446
1/15/04	900	3.725	762	0	2.447	344.8	26.82	60.01	94.7	0.34085
1/15/04	1000	3.868	763	0	3.148	3.807	20.66	63.24	149.1	0.53669
1/15/04	1100	3.735	764	0	3.409	23.58	23.37	57.99	271.9	0.97867
1/15/04	1200	4.044	764	0	3.403	46.1	27.3	50.71	468.1	1.685
1/15/04	1300	4.858	764	0	2.656	16.52	32.48	38.91	540	1.9439
1/15/04	1400	5.447	763	0	2.722	5.936	26.71	37.14	526	1.8935
1/15/04	1500	6.202	762	0	2.424	28.76	35.9	35.9	445	1.6019
1/15/04	1600	6.781	762	0	2.411	36.6	40.62	34.77	322.1	1.1596
1/15/04	1700	6.799	763	0	2.125	44.43	23.81	36.67	169	0.60824
1/15/04	1800	6.205	763	0	1.309	43.46	22.55	37.78	21.28	0.07661
1/15/04	1900	4.32	763	0	0.959	358.8	52.5	48.08	0.008	0.00003
1/15/04	2000	2.301	764	0	0.646	350.4	51.35	53.83	0.005	0.00002
1/15/04	2100	1.307	764	0	1.055	15.62	29.41	45.85	0.004	0.00001
1/15/04	2200	1.167	764	0	1.446	24.6	16.7	46.29	0.003	0.00001
1/15/04	2300	0.466	765	0	0.721	14.51	29.27	51.64	0.001	0
1/15/04	2400	-0.488	765	0	0.554	12.1	31.59	52.68	0	0
1/16/04	100	-1.54	765	0	0.586	282.4	36.46	67.06	0	0
1/16/04	200	-2.471	765	0	0.41	312.3	63.25	69.26	0	0
1/16/04	300	-3.159	764	0	0.736	280.8	71.7	72.4	0	0
1/16/04	400	-3.571	765	0	0.576	277.2	24.44	76.8	0	0
1/16/04	500	-3.505	765	0	0.341	306.4	42	76.2	0	0
1/16/04	600	-3.628	765	0	0.617	274.8	48.6	77.1	0	0
1/16/04	700	-3.452	765	0	0.509	356.4	47.56	72.1	0	0
1/16/04	800	-3.276	766	0	0.688	20.43	28.1	68.87	2.418	0.0087
1/16/04	900	-2.49	766	0	0.735	358.3	26	64.62	61.34	0.22082
1/16/04	1000	-0.904	766	0	1.673	22.51	26.31	57.62	118.2	0.42554
1/16/04	1100	0.417	766	0	1.816	33.27	23.93	46.75	273.8	0.98577
1/16/04	1200	2.684	766	0	1.237	33.59	60.07	38.79	434.9	1.5655
1/16/04	1300	5.109	766	0	1.321	41.23	63.95	34.64	531.6	1.9137
1/16/04	1400	7.27	765	0	1.079	110.7	61.6	29.02	516.6	1.8596
1/16/04	1500	8.75	764	0	1.488	16.88	32.82	27.62	435.7	1.5685
1/16/04	1600	9.75	764	0	1.877	348.3	33.27	29.89	314.5	1.1323
1/16/04	1700	10.01	764	0	1.447	4.83	25.21	29.69	165	0.59389

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/16/04	1800	8.85	764	0	1.179	341.7	31.75	38.08	22.15	0.07973
1/16/04	1900	6.16	764	0	0.546	327.2	39.99	48.3	0.006	0.00002
1/16/04	2000	4.104	764	0	0.662	15.15	31.69	55.03	0.004	0.00001
1/16/04	2100	2.686	765	0	0.856	15.89	26.73	58.28	0.005	0.00002
1/16/04	2200	1.697	764	0	0.562	15.35	29.23	64.93	0.006	0.00002
1/16/04	2300	0.657	764	0	0.514	17.25	21.46	69.81	0.003	0.00001
1/16/04	2400	0.157	765	0	0.835	27.2	21.17	73.2	0.001	0
1/17/04	100	-0.11	764	0	0.518	22.79	36.71	71.4	0	0
1/17/04	200	-0.492	764	0	0.335	350.6	31.99	72.8	0.001	0
1/17/04	300	-0.435	764	0	0.376	18.77	33.7	74.2	0	0
1/17/04	400	0.172	764	0	0.506	321.5	53.19	72.6	0.001	0
1/17/04	500	1.224	764	0	1.317	33.53	22.83	58.88	0.005	0.00002
1/17/04	600	2.432	763	0	1.124	38.41	29.11	52.03	0.017	0.00006
1/17/04	700	2.765	763	0	0.476	6.699	28.94	56.3	0.023	0.00008
1/17/04	800	2.654	763	0	0.916	33.04	28	55.57	1.213	0.00437
1/17/04	900	2.995	763	0	1.005	32.65	29.14	51.45	59.18	0.21306
1/17/04	1000	4.714	763	0	0.936	50.43	50.63	46.27	115.2	0.41459
1/17/04	1100	5.875	763	0	1.465	348.5	58.64	45.77	145.4	0.52342
1/17/04	1200	6.534	763	0	2.35	257.2	27.62	46.37	134.4	0.48383
1/17/04	1300	7.39	763	0	2.587	268.8	20.68	44.1	115.4	0.41552
1/17/04	1400	8.43	762	0	2.792	219.4	17.31	49.61	147.6	0.53124
1/17/04	1500	8.72	761	0	2.008	221.5	14.47	58.22	111.8	0.40245
1/17/04	1600	8.07	760	0.1	1.072	217.1	12.37	76.2	59.4	0.21384
1/17/04	1700	7.22	760	0.2	0.53	241.7	46.72	88.1	30.6	0.11018
1/17/04	1800	6.454	759	0.3	0.971	5.043	25.95	92.2	5.359	0.01929
1/17/04	1900	6.054	758	0	0.844	341.7	34.5	93.6	0	0
1/17/04	2000	5.799	758	0.2	0.48	266.6	56.83	94.2	0.001	0
1/17/04	2100	5.549	758	0.2	1.105	303.9	60.88	94.9	0.001	0
1/17/04	2200	5.32	758	0.1	0.471	283.4	34.63	94.6	0.002	0.00001
1/17/04	2300	5.114	757	0.5	0.741	319	67.08	95.1	0.001	0
1/17/04	2400	5.008	756	0.8	0.689	45.83	21.54	95.4	0.002	0.00001
1/18/04	100	5.159	755	0.3	1.39	36.83	13.84	96.4	0.003	0.00001
1/18/04	200	5.463	754	0.1	0.466	30.08	80.1	96.4	0.002	0.00001
1/18/04	300	5.394	754	0	1.418	55	29.31	95.8	0.001	0
1/18/04	400	5.268	752	0.3	1.306	32.26	24.88	95.3	0.001	0
1/18/04	500	5.476	752	0	1.272	28.79	17.86	95.6	0.002	0.00001
1/18/04	600	5.483	751	0.3	1.082	20.88	51.38	96.4	0.002	0.00001
1/18/04	700	5.58	751	0.9	0.452	305.7	48.95	96.8	0.002	0.00001
1/18/04	800	5.816	751	1.6	0.489	255.7	51.16	96.9	0.141	0.00051
1/18/04	900	5.971	751	0.8	0.837	206.7	29.54	97.2	12.07	0.04345
1/18/04	1000	6.275	751	0.4	1.081	201.5	23.04	97.3	20.78	0.0748
1/18/04	1100	6.577	751	0.2	1.654	221.4	15.4	97.4	46.74	0.16827
1/18/04	1200	7.43	751	0.1	2.579	230.1	12.12	97.2	65.21	0.23477

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/18/04	1300	8.29	751	0	3.523	241.2	19.41	87.5	47.66	0.17158
1/18/04	1400	8.7	751	0.1	2.753	247.7	18.86	86.2	59.97	0.21589
1/18/04	1500	7.5	752	0.3	3.96	267.3	16.17	87.6	44.14	0.15891
1/18/04	1600	6.123	753	0	3.156	267.5	23.41	85.3	92.1	0.33147
1/18/04	1700	5.387	754	0	3.153	266.2	18.6	82.2	48.18	0.17346
1/18/04	1800	4.503	755	0	2.118	281.7	24.62	80.2	2.479	0.00893
1/18/04	1900	3.635	755	0	1.762	314.1	37.83	84.5	0.009	0.00003
1/18/04	2000	2.64	756	0	1.322	313	36.19	76.8	0.012	0.00004
1/18/04	2100	2.299	756	0	1.459	6.144	22.36	73.4	0.016	0.00006
1/18/04	2200	1.806	757	0	1.701	6.771	25.2	68.4	0.011	0.00004
1/18/04	2300	1.597	757	0	1.675	13.8	23.28	66.33	0.01	0.00004
1/18/04	2400	1.072	758	0	1.752	351.1	22.48	67.33	0.011	0.00004
1/19/04	100	0.711	758	0	1.359	336.8	25.59	69.41	0.008	0.00003
1/19/04	200	0.493	758	0	1.48	5.149	27.51	68.57	0.005	0.00002
1/19/04	300	0.337	758	0	1.662	26.99	21.19	65.9	0.002	0.00001
1/19/04	400	0.094	758	0	2.284	30.85	16.02	66.9	0.002	0.00001
1/19/04	500	-0.333	758	0	2.935	43	13.78	66.47	0.004	0.00001
1/19/04	600	-0.625	758	0	2.539	32.88	13.45	67.77	0	0
1/19/04	700	-0.878	759	0	2.707	28.49	13.64	62.97	0.001	0
1/19/04	800	-1.284	759	0	2.999	14.21	16.06	62.6	0.824	0.00297
1/19/04	900	-1.457	760	0	2.512	19.4	18.63	66.48	21.29	0.07663
1/19/04	1000	-1.768	760	0	3.38	30.27	15.92	67.61	53.86	0.19389
1/19/04	1100	-2.25	761	0	4.349	42.55	13.45	71.9	137.5	0.49509
1/19/04	1200	-2.088	761	0	4.382	15.34	21	65.57	435.1	1.5664
1/19/04	1300	-1.723	761	0	3.533	12.61	23.29	61.29	353.4	1.2723
1/19/04	1400	-1.487	761	0	2.83	349.1	30.28	57.44	314.5	1.1323
1/19/04	1500	-1.131	761	0	2.926	18.36	31.7	60.05	272.5	0.98085
1/19/04	1600	-1.142	761	0	3.513	40.25	21.53	59.98	237.9	0.85654
1/19/04	1700	-1.416	762	0	2.84	30.73	18.09	57.71	78.9	0.28421
1/19/04	1800	-1.985	762	0	2.677	26.18	13.3	60.09	14.07	0.05064
1/19/04	1900	-2.91	763	0	2.891	30.12	13.43	62.47	0.056	0.0002
1/19/04	2000	-3.8	763	0	2.754	21.32	15.45	64.25	0	0
1/19/04	2100	-4.194	764	0	2.641	22.37	13.54	63.75	0	0
1/19/04	2200	-4.598	764	0	2.767	24.25	14.58	64.26	0	0
1/19/04	2300	-4.908	764	0	2.595	22.23	17.58	64.43	0	0
1/19/04	2400	-5.304	765	0	2.589	30.31	14.9	63.93	0.001	0
1/20/04	100	-5.496	765	0	2.403	35.14	16.05	64.69	0	0
1/20/04	200	-5.705	765	0	1.749	32.88	16.28	65.4	0.001	0
1/20/04	300	-6.104	765	0	1.243	42.09	17.74	70.8	0.004	0.00001
1/20/04	400	-6.735	765	0	0.784	36.3	28.41	75.5	0.002	0.00001
1/20/04	500	-7.17	765	0	0.758	19.39	16	78.1	0.009	0.00003
1/20/04	600	-7.42	765	0	0.566	26.83	22.01	80.8	0.015	0.00005
1/20/04	700	-7.75	766	0	0.884	36.47	22.01	81.2	0.008	0.00003

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/20/04	800	-7.42	766	0	0.953	17.46	23.06	77.4	3.296	0.01187
1/20/04	900	-6.668	767	0	1.988	37.24	16.63	73.3	101.1	0.36379
1/20/04	1000	-5.202	767	0	3.725	34.42	14.99	65.09	281	1.0115
1/20/04	1100	-3.912	767	0	3.536	48.68	17.92	59.73	427.7	1.5398
1/20/04	1200	-2.465	767	0	2.804	38.42	28.94	51.93	519.5	1.8702
1/20/04	1300	-1.208	767	0	2.845	12.03	31.13	46.74	558	2.0089
1/20/04	1400	0.252	767	0	2.168	36.32	44.81	39.99	541.7	1.95
1/20/04	1500	1.237	766	0	2.452	38.83	26.14	36.81	464.9	1.6737
1/20/04	1600	1.881	765	0	2.667	32.31	20.66	35.28	337	1.2131
1/20/04	1700	2.225	766	0	2.208	26.3	30.16	34.54	184.8	0.66532
1/20/04	1800	1.814	765	0	1.83	24.81	24.92	41.5	31	0.11159
1/20/04	1900	0.401	766	0	1.063	38.9	25.21	49.83	0.037	0.00013
1/20/04	2000	-0.839	766	0	0.849	26.44	55.16	57.82	0	0
1/20/04	2100	-1.327	766	0	0.99	31.99	20.32	54.82	0	0
1/20/04	2200	-1.534	766	0	1.339	33.41	15.98	53.45	0	0
1/20/04	2300	-2.002	766	0	1.444	28.66	13.94	54.09	0	0
1/20/04	2400	-2.479	766	0	1.223	23.95	19.67	57.86	0	0
1/21/04	100	-3.187	766	0	0.883	12.79	21.76	61.78	0	0
1/21/04	200	-3.458	766	0	1.035	9.09	39.98	66.73	0	0
1/21/04	300	-3.642	766	0	0.878	10.6	20.07	65.22	0	0
1/21/04	400	-3.142	766	0	1.019	18.26	15.99	62.61	0	0
1/21/04	500	-2.807	766	0	1.126	37.61	19.37	60.03	0	0
1/21/04	600	-2.535	766	0	1.103	21.7	26.39	61.13	0	0
1/21/04	700	-2.458	766	0	1.329	11.99	21.77	60.66	0	0
1/21/04	800	-2.426	766	0	0.946	18.3	21	61.87	1.872	0.00674
1/21/04	900	-2.306	766	0	1.227	6.046	26.29	63.1	28.48	0.10252
1/21/04	1000	-1.748	766	0	1.129	344.7	24.56	60.19	76.4	0.27504
1/21/04	1100	-0.666	767	0	0.688	280	67.26	55.37	211.5	0.76149
1/21/04	1200	0.465	767	0	1.412	217.3	23.42	51.73	218.6	0.7868
1/21/04	1300	1.632	766	0	2.05	211.4	25.1	50.12	232.7	0.8377
1/21/04	1400	2.748	766	0	2.141	227.9	34.55	41.13	228.9	0.82414
1/21/04	1500	3.44	765	0	2.165	218.9	18.51	39.82	276.1	0.99401
1/21/04	1600	4.267	765	0	2.119	217.9	23.93	38.52	246.4	0.88705
1/21/04	1700	4.961	765	0	2.272	212.5	24.96	36.21	169.5	0.61009
1/21/04	1800	4.233	765	0	1.267	204	25.45	44.8	30.15	0.10853
1/21/04	1900	1.929	765	0	0.768	267.7	33.38	57.61	0.095	0.00034
1/21/04	2000	0.161	765	0	0.935	273	44.93	65.17	0	0
1/21/04	2100	-1.053	765	0	0.939	259.5	23.22	67.91	0.001	0
1/21/04	2200	-1.845	765	0	0.744	251.9	20.02	73	0	0
1/21/04	2300	-2.583	765	0	0.934	259.4	22.19	77.5	0	0
1/21/04	2400	-3.692	765	0	1.244	240.9	13.04	83.1	0	0
1/22/04	100	-3.901	765	0	1.823	239.5	7.39	80	0	0
1/22/04	200	-4.309	765	0	1.757	238.1	9.34	84.2	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/22/04	300	-4.506	765	0	1.184	251	13.72	85.2	0	0
1/22/04	400	-4.846	765	0	1.459	248.8	10.34	84.7	0	0
1/22/04	500	-5.725	764	0	1.674	241.6	9.83	90	0	0
1/22/04	600	-5.445	764	0	0.905	248.4	15.27	83.8	0.001	0
1/22/04	700	-5.792	764	0	1.698	239.5	8.99	89	0.001	0
1/22/04	800	-5.356	764	0	1.495	235.7	11.52	84.7	3.781	0.01361
1/22/04	900	-4.241	764	0	1.892	238.6	12.6	78.6	97.7	0.35177
1/22/04	1000	-0.371	764	0	1.761	233.6	15.43	65.27	278.2	1.0017
1/22/04	1100	2.8	764	0	3.412	223.6	17.1	56.7	413.7	1.4892
1/22/04	1200	4.967	764	0	4.171	218.5	17.18	55.49	503.3	1.8119
1/22/04	1300	6.892	763	0	4.122	224.8	19.36	50.14	534.7	1.9248
1/22/04	1400	7.71	762	0	4.315	229.8	18.82	48.46	310.9	1.1194
1/22/04	1500	8.92	762	0	5.153	255.7	16.56	49	347.4	1.2506
1/22/04	1600	8.92	761	0	4.599	273	22.72	48.66	141.4	0.50888
1/22/04	1700	8.1	762	0	4.761	268.5	16.75	51.51	90.9	0.32713
1/22/04	1800	6.56	762	0	2.996	292.4	30.12	54.89	21.09	0.07591
1/22/04	1900	5.054	763	0	2.899	274.1	31.07	52.85	0.08	0.00029
1/22/04	2000	3.897	763	0	3.296	267.1	19.94	57.43	0.006	0.00002
1/22/04	2100	2.63	764	0	3.121	283.4	25.51	33.35	0.009	0.00003
1/22/04	2200	0.87	765	0	3.127	277.3	30.77	29.81	0.007	0.00003
1/22/04	2300	-0.858	765	0	4.283	264	17.62	34.36	0	0
1/22/04	2400	-1.926	765	0	4.08	268.9	18.63	33.52	0	0
1/23/04	100	-3.06	766	0	3.15	261.8	23.01	40.78	0	0
1/23/04	200	-4.283	766	0	3.681	260.4	15.94	48.6	0	0
1/23/04	300	-5.057	766	0	2.363	280.7	23.66	52.39	0	0
1/23/04	400	-5.652	766	0	2.595	275.1	19.62	51.29	0	0
1/23/04	500	-6.32	767	0	1.897	278.1	30.44	48.91	0.001	0
1/23/04	600	-7.01	767	0	1.525	294.6	24.36	52.29	0.001	0
1/23/04	700	-7.7	767	0	1.198	245.2	31.24	54.61	0.001	0
1/23/04	800	-8.13	767	0	0.966	269.9	43.29	59.4	3.425	0.01233
1/23/04	900	-7.63	768	0	1.098	291.1	40.93	53.94	107.9	0.38841
1/23/04	1000	-6.077	768	0	1.288	187.1	34.12	50.11	300	1.0801
1/23/04	1100	-4.708	768	0	1.693	211.4	40.52	44.72	440.8	1.587
1/23/04	1200	-2.983	767	0	2.135	213.4	35.62	37.19	526.3	1.8948
1/23/04	1300	-1.459	767	0	2.471	220.4	29.88	30.17	552.1	1.9876
1/23/04	1400	0.184	766	0	2.182	207.3	40.91	28.36	534.2	1.9231
1/23/04	1500	1.641	765	0	2.652	221.9	27.03	25.32	469.2	1.6891
1/23/04	1600	2.55	764	0	3.023	208.8	30.61	27.66	356.1	1.282
1/23/04	1700	3.32	763	0	3.335	221.1	17.94	24.49	206.8	0.74431
1/23/04	1800	3.184	763	0	2.69	217.7	15.53	28.33	44.74	0.16107
1/23/04	1900	1.907	762	0	2.245	201.6	12.94	31.78	0.149	0.00054
1/23/04	2000	1.065	762	0	1.906	218.1	13.97	35.49	0.003	0.00001
1/23/04	2100	-0.08	761	0	1.745	228.4	11.58	45.45	0.001	0



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/23/04	2200	-0.531	761	0	1.218	236	18.48	42.95	0	0
1/23/04	2300	-0.763	761	0	1.133	214	20.97	45.32	0	0
1/23/04	2400	-0.791	761	0	1.165	219.7	19.94	47.53	0	0
1/24/04	100	-0.93	761	0	0.593	244.6	35.77	58.53	0	0
1/24/04	200	-1.928	761	0	0.414	299.2	49.31	58.37	0	0
1/24/04	300	-2.302	760	0	0.538	347	66.91	68.63	0	0
1/24/04	400	-2.935	760	0	0.118	331.8	23.07	74	0	0
1/24/04	500	-2.668	760	0	0.395	333.1	69.15	74	0	0
1/24/04	600	-2.818	760	0	0.396	296.9	58.4	76.1	0	0
1/24/04	700	-3.346	760	0	0.451	274.1	30.24	76.4	0	0
1/24/04	800	-3.381	760	0	0.34	12.3	22.9	78.1	4.003	0.01441
1/24/04	900	-2.812	760	0	0.626	248.5	28.37	73.5	90.7	0.32654
1/24/04	1000	1.355	761	0	0.215	89.4	65.62	55.47	261.1	0.93988
1/24/04	1100	6.71	760	0	1.466	202.7	37.89	56.79	359.2	1.293
1/24/04	1200	9.4	761	0	3.14	245.9	27.65	57.11	471.7	1.698
1/24/04	1300	10.79	761	0	3.158	275.3	24.28	52.83	515.1	1.8542
1/24/04	1400	11.79	760	0	2.891	287	23.32	48.99	455.9	1.6413
1/24/04	1500	12.85	760	0	2.353	259.7	35.7	45.82	440.9	1.5874
1/24/04	1600	13.41	759	0	2.098	278.6	31.49	41.71	289	1.0404
1/24/04	1700	13.38	759	0	2.002	317.9	23.52	42.24	129.8	0.46723
1/24/04	1800	12.25	760	0	1.735	320.5	27.25	45.95	18.74	0.06745
1/24/04	1900	10.87	760	0	0.84	323.6	36.69	54.04	0.028	0.0001
1/24/04	2000	8.99	760	0	0.812	14.46	46.58	54.28	0	0
1/24/04	2100	8.4	760	0	0.735	32.15	21.09	59.36	0	0
1/24/04	2200	6.648	761	0	0.336	14.9	38.1	61.47	0.001	0
1/24/04	2300	7.01	761	0	1.193	49.09	28.07	59.76	0.003	0.00001
1/24/04	2400	6.681	761	0	2.365	37.39	12.66	59.83	0.001	0
1/25/04	100	6.149	761	0	2.095	29.21	13.31	60.23	0.002	0.00001
1/25/04	200	5.567	761	0	3.425	29.72	10.64	62.37	0.003	0.00001
1/25/04	300	5.016	761	0	3.415	26.18	11.13	63.8	0.003	0.00001
1/25/04	400	4.37	760	0	3.111	30.54	10.95	71.8	0.008	0.00003
1/25/04	500	3.65	760	0	2.085	26.33	13.5	80.2	0.012	0.00004
1/25/04	600	2.945	759	0.1	2.204	15.24	13.32	85.9	0.011	0.00004
1/25/04	700	2.373	760	0.5	2.146	27.14	13.76	92.3	0.012	0.00004
1/25/04	800	2.023	760	0.9	3.135	36.9	18.6	94.8	0.333	0.0012
1/25/04	900	1.935	760	1.5	3.158	35.48	24.62	96.3	4.669	0.01681
1/25/04	1000	1.969	759	1.1	2.866	51.45	16.19	96.7	14.69	0.05289
1/25/04	1100	2.35	759	0.7	2.35	51.96	18.62	96.7	36.92	0.13291
1/25/04	1200	2.699	758	0.6	2.019	19.41	19.29	97.1	45.49	0.16376
1/25/04	1300	2.875	757	0.3	1.511	1.679	20.47	97.3	49.47	0.17808
1/25/04	1400	3.186	756	0.5	1.261	359.5	37.61	97.3	76.7	0.27622
1/25/04	1500	3.811	755	0.5	1.744	26.89	28.83	96.9	70.1	0.25249
1/25/04	1600	4.353	755	0.5	1.757	25.78	26.44	96.8	54.99	0.19795

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/25/04	1700	4.705	753	0.7	1.172	3.779	41.11	96.9	16.55	0.05958
1/25/04	1800	4.907	755	0	1.047	13.69	32.78	96.8	5.983	0.02154
1/25/04	1900	6.04	755	0.1	2.064	209	79.8	89.9	0.062	0.00022
1/25/04	2000	7.06	755	0	2.418	228.4	16.42	87	0.004	0.00002
1/25/04	2100	6.786	756	0	3.184	222.2	13.77	87.9	0.001	0
1/25/04	2200	6.382	756	0	1.812	226.9	35.7	89.7	0.001	0
1/25/04	2300	6.274	757	0	1.437	279	31.16	91	0.001	0
1/25/04	2400	5.699	757	0	0.952	277.5	31.02	92.5	0	0
1/26/04	100	5.564	757	0	0.978	246.5	24.78	92.1	0.002	0.00001
1/26/04	200	5.47	758	0	0.805	221.8	20.29	91.5	0.005	0.00002
1/26/04	300	5.37	758	0	0.667	320.2	35.53	93	0.002	0.00001
1/26/04	400	5.084	758	0	1.118	355	21.72	94.3	0.003	0.00001
1/26/04	500	4.854	758	0	0.867	3.237	36.55	94	0.004	0.00001
1/26/04	600	4.816	758	0	0.48	311.1	25.01	93.5	0.007	0.00002
1/26/04	700	4.851	758	0	0.92	10.64	31.85	94.2	0.01	0.00004
1/26/04	800	4.845	758	0	1.307	27.93	19.42	92.4	0.745	0.00268
1/26/04	900	4.868	758	0	0.946	4.485	28.9	88.9	22.69	0.08168
1/26/04	1000	5.21	759	0	1.459	55.29	21.32	88.2	92.1	0.33157
1/26/04	1100	5.836	758	0	0.643	355.8	50.15	86.6	93.2	0.33542
1/26/04	1200	6.626	758	0	0.849	279.1	53.31	85.2	221.7	0.7982
1/26/04	1300	7.49	758	0	1.733	227	32.05	84.8	223.2	0.80348
1/26/04	1400	7.89	758	0	2.597	243.9	24.8	87	203.5	0.73259
1/26/04	1500	7.86	757	0	2.361	278.9	19.37	87.6	153.8	0.5536
1/26/04	1600	7.65	757	0	2.464	279.5	16.98	88.3	115.8	0.41676
1/26/04	1700	7.45	757	0	2.05	266.6	22.69	88.4	102	0.36717
1/26/04	1800	7.09	757	0	1.534	289.6	28.57	89.9	9.55	0.03439
1/26/04	1900	6.742	757	0	0.784	287.1	46.37	91.1	0.027	0.0001
1/26/04	2000	6.595	757	0	1.257	277.5	37.37	92.1	0	0
1/26/04	2100	6.364	758	0	1.105	317.8	30.56	93.7	0	0
1/26/04	2200	6.248	757	0	1.018	337.9	37.92	94.2	0	0
1/26/04	2300	6.244	757	0	1.031	288.2	39.26	95	0	0
1/26/04	2400	6.092	757	0	1.092	209.3	36.92	96.1	0	0
1/27/04	100	6.076	756	0	1.363	224	19.53	96.5	0	0
1/27/04	200	5.945	756	0	2.555	222.5	14.85	94.2	0	0
1/27/04	300	5.498	756	0	2.662	220.4	13.77	92.5	0	0
1/27/04	400	5.038	756	0	2.577	224.9	23.8	93	0.001	0
1/27/04	500	4.728	755	0.3	2.507	228.6	15.23	93.7	0.002	0.00001
1/27/04	600	4.503	756	0.2	3.142	214.5	17.84	93.3	0.005	0.00002
1/27/04	700	4.618	755	0.3	4.668	214	13.85	93.3	0.005	0.00002
1/27/04	800	4.529	756	0	4.399	215.7	15.39	93.7	0.209	0.00075
1/27/04	900	4.158	756	0.1	4.467	241.6	23.41	79.9	14.75	0.05309
1/27/04	1000	3.229	757	0	4.193	266.6	20.6	74.8	31.55	0.11359
1/27/04	1100	3.129	758	0	4.307	249.2	15.38	71.1	62.91	0.22646

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/27/04	1200	2.692	758	0	4.942	262.8	19.08	68.03	81.9	0.29476
1/27/04	1300	1.379	758	0	4.745	264.8	16.78	69.66	116	0.41752
1/27/04	1400	1.132	758	0	4.262	262.9	21.37	65.92	158	0.56895
1/27/04	1500	0.874	758	0	5.094	252.4	17.69	67.56	97.6	0.35138
1/27/04	1600	0.226	759	0	5.023	251.9	15.1	64.86	66.94	0.24099
1/27/04	1700	-0.321	759	0	4.878	264.2	16.73	62.22	56.77	0.20438
1/27/04	1800	-0.686	760	0	4.483	264.4	18.74	62.69	23.55	0.0848
1/27/04	1900	-1.202	761	0	4.789	264.8	18.1	57.08	0.1	0.00036
1/27/04	2000	-2.101	762	0	3.345	277	28.46	57.02	0.004	0.00001
1/27/04	2100	-2.891	763	0	4.115	278.4	23.06	53.78	0	0
1/27/04	2200	-3.131	763	0	3.697	275.5	20.83	58.66	0	0
1/27/04	2300	-3.361	764	0	3.136	272.6	25.25	65.08	0	0
1/27/04	2400	-3.647	764	0	2.234	279.2	30.31	68.33	0	0
1/28/04	100	-4.033	764	0	2.755	286.6	29.52	65.82	0	0
1/28/04	200	-3.982	764	0	3.606	270.9	21.36	63.25	0	0
1/28/04	300	-4.02	765	0	3.527	261.8	18.2	66.09	0	0
1/28/04	400	-4.387	765	0	2.43	290.5	27.62	74.8	0	0
1/28/04	500	-4.844	766	0	2.165	295.4	22.4	73.5	0	0
1/28/04	600	-4.752	766	0	2.276	274.8	26.98	72.8	0	0
1/28/04	700	-5.223	766	0	3.582	277.9	24.49	63.95	0	0
1/28/04	800	-5.874	767	0	3.594	268	17.4	66.27	4.228	0.01522
1/28/04	900	-5.898	768	0	3.127	247.3	26.31	65.43	120.3	0.43295
1/28/04	1000	-5.149	768	0	2.866	258.2	23.56	62.64	321.6	1.1579
1/28/04	1100	-4.293	768	0	2.358	281.1	34.3	63	466.8	1.6806
1/28/04	1200	-3.286	769	0	2.603	275.5	27.79	58.01	560.9	2.0193
1/28/04	1300	-2.182	769	0	2.389	247.8	34.71	54.7	591.8	2.1304
1/28/04	1400	-0.79	768	0	2.217	267.2	40.84	53.76	575.4	2.0716
1/28/04	1500	0.54	768	0	1.968	235.4	66.46	44.13	508.4	1.8304
1/28/04	1600	1.665	768	0	2.291	276.8	37.82	37.31	383.8	1.3818
1/28/04	1700	2.439	767	0	1.971	242	37.24	35.54	221.1	0.79611
1/28/04	1800	1.969	767	0	1.786	191.1	26.3	44.9	50.25	0.18091
1/28/04	1900	0.297	767	0	1.505	199.2	14.87	51.03	0.305	0.0011
1/28/04	2000	-0.596	767	0	0.942	229.6	24.16	60.39	0	0
1/28/04	2100	-1.871	767	0	1.302	229.9	14.79	67.35	0	0
1/28/04	2200	-2.817	767	0	1.892	226.6	8.01	70.6	0	0
1/28/04	2300	-2.998	767	0	1.413	227.2	11.15	67.73	0	0
1/28/04	2400	-3.731	767	0	1.746	237.7	6.316	76.2	0	0
1/29/04	100	-4.444	767	0	1.313	244	14.65	76.3	0	0
1/29/04	200	-4.439	766	0	1.127	258.3	11.71	81.3	0	0
1/29/04	300	-5.346	766	0	1.13	257.9	17.36	83.3	0.001	0
1/29/04	400	-5.859	765	0	1.167	246.5	9.75	86.9	0.001	0
1/29/04	500	-6.504	765	0	1.384	247.8	31.36	87.5	0.003	0.00001
1/29/04	600	-6.692	765	0	0.826	252.7	36.21	88.1	0.002	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/29/04	700	-6.751	766	0	0.351	279.3	43.15	88.5	0.003	0.00001
1/29/04	800	-6.475	766	0	0.637	302.7	40.55	86.9	4.367	0.01572
1/29/04	900	-5.528	766	0	0.657	258.1	54.1	81.2	111.6	0.40182
1/29/04	1000	-2.054	766	0	0.908	206.4	21.57	63.57	310.1	1.1165
1/29/04	1100	1.112	766	0	2.301	216.9	22.21	48.58	453.9	1.6342
1/29/04	1200	3.337	765	0	3.043	227.1	17.83	38.62	545.1	1.9624
1/29/04	1300	5.28	765	0	2.353	228.1	22.97	33.37	577	2.0772
1/29/04	1400	6.556	763	0	2.907	220.5	21	30.79	473.3	1.704
1/29/04	1500	7.71	763	0	3.24	226.2	19.12	29.66	439.7	1.583
1/29/04	1600	8.63	762	0	3.728	214	25.33	29.02	374.8	1.3492
1/29/04	1700	8.87	761	0	3.603	214.2	19.29	30.59	211	0.75971
1/29/04	1800	8.41	761	0	2.764	206.5	16.96	32.47	47.79	0.17205
1/29/04	1900	6.104	760	0	1.309	202.3	20.96	40.79	0.179	0.00065
1/29/04	2000	4.686	760	0	1.231	211.5	18.29	41.46	0.006	0.00002
1/29/04	2100	3.83	760	0	1.644	230.7	13.56	45.61	0.01	0.00004
1/29/04	2200	2.854	759	0	1.673	224	17.23	47.92	0.013	0.00005
1/29/04	2300	2.733	759	0	1.348	215.9	20.2	46.35	0.007	0.00003
1/29/04	2400	3.66	759	0	2.03	221.9	19.17	41.64	0.027	0.0001
1/30/04	100	4.605	759	0	2.652	228	12.45	42.13	0.022	0.00008
1/30/04	200	4.762	759	0	2.867	224.7	13.72	39.29	0.02	0.00007
1/30/04	300	4.889	759	0	2.88	233.6	16.26	47.51	0.01	0.00004
1/30/04	400	5.149	759	0	3.454	252.7	13.24	59.37	0.008	0.00003
1/30/04	500	4.541	759	0	2.048	225.6	15.43	65.68	0.018	0.00007
1/30/04	600	4.374	759	0	2.198	230.3	16.33	69.26	0.015	0.00005
1/30/04	700	4.367	759	0	3.132	254.5	12.41	73.9	0.011	0.00004
1/30/04	800	3.924	759	0	2.973	276.7	27.93	78.9	0.393	0.00142
1/30/04	900	1.759	760	0	3.053	280.1	27.53	81.7	16.64	0.05989
1/30/04	1000	0.189	761	0	2.999	265	30.69	79.2	63.03	0.22692
1/30/04	1100	-0.411	761	0	2.983	281.2	26.67	79.3	79.8	0.28719
1/30/04	1200	-0.596	761	0	3.699	266.5	16.45	76.2	147.8	0.53194
1/30/04	1300	-1.04	761	0	3.53	275.8	25.46	73.2	334.4	1.2039
1/30/04	1400	0.016	760	0	4.195	248.5	24.47	58.64	563.9	2.03
1/30/04	1500	0.702	759	0	3.756	268.4	18.46	49.21	494.4	1.7799
1/30/04	1600	1.329	759	0	4.219	270.7	16.96	52.72	375.5	1.3519
1/30/04	1700	1.521	759	0	3.408	281.7	24.12	47.34	216.4	0.77921
1/30/04	1800	0.267	759	0	3.139	296	33.29	49.32	50.76	0.18275
1/30/04	1900	-0.94	760	0	2.586	275.7	36.98	55.61	0.384	0.00138
1/30/04	2000	-1.623	760	0	3.415	272.2	16.89	56.82	0.002	0.00001
1/30/04	2100	-2.192	761	0	3.648	281.1	16.35	55.92	0.002	0.00001
1/30/04	2200	-2.524	761	0	1.877	273.7	26.1	58.89	0.001	0
1/30/04	2300	-3.139	761	0	1.89	243.3	36.13	61.2	0	0
1/30/04	2400	-3.804	762	0	1.314	270.5	33.3	61.88	0	0
1/31/04	100	-4.588	762	0	1.667	347.3	27.23	67.64	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
1/31/04	200	-5.567	762	0	2.31	26.62	15.72	67.6	0	0
1/31/04	300	-6.416	762	0	1.876	36.91	11.81	67.97	0	0
1/31/04	400	-7.2	763	0	2.235	37.56	16.9	64.86	0	0
1/31/04	500	-8.03	763	0	2.325	55.59	18.51	66.21	0.002	0.00001
1/31/04	600	-8.58	763	0	2.652	38.57	11.9	70.3	0.003	0.00001
1/31/04	700	-9.2	764	0	3.033	35.69	13.11	71.6	0.007	0.00003
1/31/04	800	-9.65	764	0	2.902	35.21	14.43	70.3	4.324	0.01557
1/31/04	900	-9.36	765	0	3.228	50.66	14.35	69.26	126.7	0.45596
1/31/04	1000	-7.77	765	0	3.227	32.25	16.75	55.77	329.1	1.1846
1/31/04	1100	-6.075	765	0	3.476	28.61	18.86	49.7	477.9	1.7205
1/31/04	1200	-3.908	765	0	3.071	30.51	22.51	38.93	576	2.0736
1/31/04	1300	-1.507	765	0	3.681	25.14	16.79	32.18	616.9	2.2209
1/31/04	1400	0.797	764	0	3.084	34.62	36.22	26.09	596.3	2.1467
1/31/04	1500	2.436	763	0	2.475	31.98	26.92	24.45	518.4	1.8664
1/31/04	1600	3.593	763	0	2.173	26.87	34.7	24.05	392.4	1.4127
1/31/04	1700	4.289	763	0	1.557	338.7	54.77	23.58	229.6	0.82659
1/31/04	1800	3.574	764	0	1.726	345	24.18	27.69	57.32	0.20635
1/31/04	1900	1.58	764	0	1.315	26.25	29.34	34.38	0.461	0.00166
1/31/04	2000	0.772	763	0	1.326	44.69	23.2	35.66	0.001	0
1/31/04	2100	-0.481	764	0	1.041	27.49	23.57	38.8	0	0
1/31/04	2200	-1.046	764	0	1.502	32.04	16.63	42.18	0	0
1/31/04	2300	-2.089	764	0	0.517	17.19	35.46	50.28	0	0
1/31/04	2400	-2.836	765	0	0.755	34.66	32.7	52.18	0	0
2/1/04	100	-3.071	765	0	1.198	25.82	17.78	50.42	0	0
2/1/04	200	-2.57	765	0	1.818	25.66	9.17	46.44	0	0
2/1/04	300	-2.441	765	0	1.951	26.45	8.89	51.81	0	0
2/1/04	400	-2.717	765	0	2.082	34.59	9.82	47.37	0	0
2/1/04	500	-2.408	765	0	2.313	36.91	8.03	46.77	0	0
2/1/04	600	-2.255	765	0	2.314	37	8.88	47.07	0	0
2/1/04	700	-2.256	765	0	1.871	43.03	10.48	45.56	0	0
2/1/04	800	-2.227	765	0	1.802	30.06	11.34	47.3	4.426	0.01593
2/1/04	900	-1.668	766	0	1.348	58.85	17.7	43.09	125.1	0.45047
2/1/04	1000	0.323	766	0	2.991	39.64	16.91	36.79	323	1.1628
2/1/04	1100	2.265	767	0	1.929	67.24	31.41	31.84	466.7	1.68
2/1/04	1200	4.82	767	0	1.07	2.987	46.91	27.82	565.5	2.0357
2/1/04	1300	6.857	767	0	1.13	314.7	85.1	26.28	611	2.1997
2/1/04	1400	8.48	766	0	1.428	348.4	55.02	24.08	594.9	2.1415
2/1/04	1500	10.07	765	0	1.053	283.8	76.9	22.67	517.4	1.8627
2/1/04	1600	11.18	765	0	1.205	11.61	60.73	23.51	388.3	1.3979
2/1/04	1700	11.58	765	0	1.295	114.2	77.2	23.51	226.5	0.8154
2/1/04	1800	10.53	765	0	1.735	130	18.27	28.52	56.16	0.20219
2/1/04	1900	6.964	765	0	0.654	268.8	53.22	37.71	0.423	0.00152
2/1/04	2000	4.505	765	0	0.53	275.2	19.63	48.55	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/1/04	2100	3.719	765	0	0.288	303.9	32.99	51.29	0.001	0
2/1/04	2200	2.819	766	0	0.334	337	36.38	55.24	0.009	0.00003
2/1/04	2300	2.222	766	0	0.785	272.1	41.87	60.85	0.011	0.00004
2/1/04	2400	1.764	766	0	0.787	352	59.78	60.32	0.016	0.00006
2/2/04	100	0.964	766	0	0.642	17.2	28.06	66.77	0.015	0.00005
2/2/04	200	0.969	766	0	0.538	358.5	68.32	66.2	0.014	0.00005
2/2/04	300	1.065	766	0	0.732	32.6	32.89	64.93	0.018	0.00006
2/2/04	400	0.966	766	0	0.681	36.25	46.09	69.07	0.018	0.00007
2/2/04	500	1.709	766	0	0.761	245.9	68.38	67.74	0.023	0.00008
2/2/04	600	2.499	766	0	0.555	298.4	66.36	63.86	0.028	0.0001
2/2/04	700	3.524	766	0	1.699	28.07	14.08	45.81	0.016	0.00006
2/2/04	800	3.924	766	0	1.704	28.02	18.48	46.51	1.568	0.00565
2/2/04	900	4.233	766	0	1.727	19.7	19.68	44.57	18.21	0.06556
2/2/04	1000	4.693	766	0	1.727	26.24	24.17	41.69	73.8	0.26553
2/2/04	1100	5.344	766	0	2.338	64.7	27.35	41.12	132.3	0.47641
2/2/04	1200	5.838	766	0	1.747	31.41	28.82	42.69	114.7	0.41296
2/2/04	1300	5.978	766	0	1.38	94	38.88	53.12	124.7	0.44878
2/2/04	1400	6.36	765	0	1.652	17.55	25.28	55.69	123.5	0.44463
2/2/04	1500	5.818	764	0.2	1.82	344.6	28.55	80.7	66.52	0.23946
2/2/04	1600	4.177	763	0.7	2.072	311.7	49.53	91.5	42.65	0.15355
2/2/04	1700	3.561	763	1.2	0.879	354.8	50.52	94.4	12.74	0.04585
2/2/04	1800	3.436	764	1.3	1.168	8.06	70.1	96	1.799	0.00648
2/2/04	1900	3.523	764	0.2	0.999	105.9	74.6	96.2	0.042	0.00015
2/2/04	2000	3.615	762	0.3	1.065	279.7	53.12	96.6	0.01	0.00004
2/2/04	2100	3.595	763	0.5	0.748	246.9	37.53	97	0.007	0.00003
2/2/04	2200	3.542	763	0.5	0.953	238.8	26.21	97.4	0.008	0.00003
2/2/04	2300	3.484	763	0.4	0.68	239.3	26.85	97.6	0.006	0.00002
2/2/04	2400	3.584	762	0.3	2.153	257.7	13.54	97.3	0.012	0.00004
2/3/04	100	3.494	762	0.1	1.755	229.4	23.5	96.9	0.006	0.00002
2/3/04	200	3.397	762	0.1	1.169	215.6	20.85	97	0.005	0.00002
2/3/04	300	3.304	761	0	1.657	224.8	18.52	96.9	0.012	0.00004
2/3/04	400	3.353	761	0	1.43	233.9	23.03	97.1	0.01	0.00004
2/3/04	500	3.461	761	0	1.125	222.6	21.12	97.4	0.009	0.00003
2/3/04	600	4.041	761	0	1.627	239.5	28.9	96.9	0.005	0.00002
2/3/04	700	4.766	761	0	3.613	212.7	17.35	93.3	0.003	0.00001
2/3/04	800	4.963	761	0	3.969	217.6	14.97	92.3	2.552	0.00919
2/3/04	900	4.869	762	0	3.874	234.4	12.07	93	45.41	0.16348
2/3/04	1000	5.261	763	0.1	3.491	239	13.39	88.1	110.7	0.39853
2/3/04	1100	5.563	763	0	3.901	259.1	17.68	79.8	161.8	0.58233
2/3/04	1200	5.646	764	0	3.886	263.8	22.7	73.8	235.9	0.84909
2/3/04	1300	5.307	764	0	4.722	268.2	19.93	69.05	198	0.71291
2/3/04	1400	4.479	764	0	3.689	269.3	21.9	70.9	104.2	0.37505
2/3/04	1500	4.07	765	0	4.028	267.1	17.03	69.42	154.6	0.55642

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/3/04	1600	3.475	765	0	3.46	270.7	15.91	74.6	72.1	0.25968
2/3/04	1700	2.805	765	0	2.554	286	30.69	76.7	50.5	0.1818
2/3/04	1800	2.2	766	0	2.501	288.3	22.7	77.5	13.64	0.04911
2/3/04	1900	1.482	767	0	2.491	274.5	25.35	76.2	0.109	0.00039
2/3/04	2000	1.211	767	0	2.606	268.3	20.47	75.1	0.017	0.00006
2/3/04	2100	1.042	767	0	2.654	263.9	20.16	77	0.016	0.00006
2/3/04	2200	0.827	768	0	2.13	275	21.46	75.6	0.02	0.00007
2/3/04	2300	0.593	768	0	1.061	315.5	36.37	75.8	0.017	0.00006
2/3/04	2400	0.539	768	0	0.949	319.3	34.87	76.6	0.017	0.00006
2/4/04	100	0.491	768	0	1.425	352.1	23.37	79.2	0.016	0.00006
2/4/04	200	0.544	768	0	1.316	10.84	28.65	75.6	0.009	0.00003
2/4/04	300	0.449	768	0	2.74	1.222	12.99	75.1	0.004	0.00001
2/4/04	400	0.397	768	0	2.559	2.199	13.59	73.1	0.01	0.00003
2/4/04	500	0.361	769	0	2.56	31.75	14.6	73.5	0.009	0.00003
2/4/04	600	0.183	769	0	2.737	20.22	15.91	74.1	0.018	0.00007
2/4/04	700	0.047	769	0	2.926	31.92	14.02	75.9	0.013	0.00005
2/4/04	800	0.002	770	0	2.742	27.08	14.84	76.2	5.448	0.01961
2/4/04	900	-0.117	770	0	3.961	28.47	14.23	76.8	67.16	0.24179
2/4/04	1000	0.332	770	0	3.999	32.13	14.73	73.6	174.2	0.62719
2/4/04	1100	1.444	770	0	4.229	40.58	16.63	69.07	268.2	0.96541
2/4/04	1200	2.542	770	0	5.088	46.51	15.33	64.38	430.6	1.5502
2/4/04	1300	4.08	770	0	4.251	47.69	17.81	61.23	535.8	1.929
2/4/04	1400	5.358	769	0	4.093	40.79	23.37	58.12	552	1.9873
2/4/04	1500	6.086	769	0	4.254	18.12	21.09	56.11	480.8	1.7308
2/4/04	1600	7.02	769	0	3.335	35.11	20.76	53.17	393.1	1.415
2/4/04	1700	7.35	769	0	3.61	40.72	16.72	50.9	224.9	0.8098
2/4/04	1800	7.25	769	0	2.331	33.63	17.75	53.82	61.57	0.22166
2/4/04	1900	5.825	769	0	1.351	44.92	22.27	59.46	0.493	0.00178
2/4/04	2000	3.889	769	0	1.139	23.63	17.73	69.7	0.005	0.00002
2/4/04	2100	3.144	769	0	1.998	34.46	11.58	62.82	0.013	0.00005
2/4/04	2200	3.521	768	0	2.256	34.15	12.11	63.59	0.017	0.00006
2/4/04	2300	2.919	768	0	1.795	32.2	14.45	71.5	0.018	0.00007
2/4/04	2400	1.904	768	0	1.102	42.41	19.96	69.44	0.013	0.00005
2/5/04	100	1.533	767	0	0.631	347.3	64.11	73.9	0.012	0.00004
2/5/04	200	1.16	767	0	0.646	15.13	42.91	72.4	0.007	0.00003
2/5/04	300	1.106	766	0	0.45	335.1	53.73	77.3	0.009	0.00003
2/5/04	400	1.05	767	0	0.797	11.62	31.15	74.8	0.007	0.00002
2/5/04	500	1.48	766	0	0.616	8.51	31.34	72.3	0.023	0.00008
2/5/04	600	2.046	766	0	1.332	2.642	32.61	75.5	0.028	0.0001
2/5/04	700	2.831	768	0	1.516	35.53	59.73	68.04	0.036	0.00013
2/5/04	800	3.898	768	0	3.092	33.83	29.59	61.31	0.441	0.00159
2/5/04	900	3.354	769	0.3	1.848	9.15	40.22	80.9	6.502	0.02341
2/5/04	1000	2.719	769	0.1	3.219	48.8	12.69	82.6	15.9	0.05722

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/5/04	1100	3.117	766	0.3	2.797	34.72	14.38	89.9	20.82	0.07496
2/5/04	1200	2.97	766	1.2	2.637	18.26	17.08	94.6	27.52	0.09908
2/5/04	1300	3.155	765	0.5	2.785	39.81	14.11	95.4	28.62	0.10302
2/5/04	1400	3.674	764	0.1	2.483	15.98	21.03	93	23.49	0.08457
2/5/04	1500	4.167	764	0	2.255	15	20.7	90.1	54.49	0.19615
2/5/04	1600	4.826	764	0	2.628	23.08	15.69	87.4	52.54	0.18913
2/5/04	1700	5.104	764	0	1.828	15.09	19.22	89.2	20.1	0.07236
2/5/04	1800	5.237	764	0	1.494	13.66	22.87	89.9	3.989	0.01436
2/5/04	1900	5.326	763	0	1.315	20.38	34.2	89.1	0.018	0.00007
2/5/04	2000	5.467	763	0	0.702	29.49	51.19	89.2	0	0
2/5/04	2100	5.684	762	0	1.02	17.77	21.38	91.8	0	0
2/5/04	2200	5.714	762	0	1.282	10.71	28.22	90.5	0	0
2/5/04	2300	5.979	762	0	1.279	28.31	17.62	91.8	0.002	0.00001
2/5/04	2400	6.035	761	0.1	1.661	29.51	22.49	92.5	0.001	0
2/6/04	100	6.212	760	1.2	2.459	347.1	46.56	94.5	0.002	0.00001
2/6/04	200	6.928	761	2.8	0.92	57.67	84.7	96.2	0	0
2/6/04	300	8.81	761	4.5	2.059	243.3	35.79	96.9	0	0
2/6/04	400	8.98	759	3.9	1.843	255.4	25.86	97.1	0	0
2/6/04	500	9.17	760	3.3	1.717	213.6	75.5	97.6	0.001	0
2/6/04	600	10.06	760	2.7	1.91	238.6	29.75	97.4	0.004	0.00001
2/6/04	700	9.86	761	2.5	1.203	187.6	39.36	97.2	0.005	0.00002
2/6/04	800	9.62	760	0.9	1.254	173.8	50.76	97.3	0.326	0.00117
2/6/04	900	9.26	760	1.2	1.676	53.01	61.55	97.5	10.98	0.03954
2/6/04	1000	8.99	759	0.4	0.985	62.64	51.75	97.5	35.2	0.12673
2/6/04	1100	9.07	759	0.5	0.941	77.7	67.59	97.5	52.37	0.18852
2/6/04	1200	9.5	759	0.7	1.131	39.96	33.74	97.6	52.39	0.1886
2/6/04	1300	10.11	758	0.1	1.104	332.9	27.36	97	153.2	0.55149
2/6/04	1400	10.53	757	0	1.541	344.9	23.39	95.8	142.4	0.51254
2/6/04	1500	10.81	756	0	0.861	140.2	73.9	94.8	79.2	0.28518
2/6/04	1600	11.23	756	0	1.363	258.8	34.89	94.2	57.28	0.20621
2/6/04	1700	10.97	756	0	2.021	276.3	19.54	96.2	21.89	0.0788
2/6/04	1800	10.77	756	0	2.368	243.5	19.11	96.4	12.85	0.04626
2/6/04	1900	10.57	756	0	3.622	257.5	20.64	91.5	0.347	0.00125
2/6/04	2000	9.55	757	0	2.206	264.1	19.83	89.9	0.002	0.00001
2/6/04	2100	8.27	757	0	3.973	266.9	17.82	80.2	0.001	0
2/6/04	2200	6.643	758	0	3.662	265.3	19.23	79.4	0	0
2/6/04	2300	5.093	759	0	4.282	264.9	19.48	75.9	0	0
2/6/04	2400	3.789	760	0	4.699	264.3	18.9	68.62	0.002	0.00001
2/7/04	100	3.37	760	0	2.912	259.6	26.27	72.3	0.011	0.00004
2/7/04	200	3.113	760	0	3.546	247.4	12.91	73.5	0.012	0.00004
2/7/04	300	2.403	761	0	4.402	254.5	14.34	74.7	0.015	0.00005
2/7/04	400	1.301	761	0	3.979	235.1	15.58	78.4	0.015	0.00005
2/7/04	500	0.948	761	0	3.201	234.4	22.52	76	0.019	0.00007



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2/7/04	600	0.982	761	0	3.69	267.4	17.27	67.57	0.013	0.00005
2/7/04	700	0.806	762	0	3.713	259.4	18.53	67.13	0.014	0.00005
2/7/04	800	0.671	762	0	2.847	258.9	15.19	71.6	1.481	0.00533
2/7/04	900	0.648	762	0	2.421	258.2	18.14	75.3	15.34	0.05523
2/7/04	1000	0.021	763	0	2.501	246	16.19	88.9	51.59	0.18573
2/7/04	1100	-0.279	763	0	3.262	250.4	16.74	92.1	67.69	0.24368
2/7/04	1200	-0.705	763	0	2.852	264.6	26.44	88.1	70.4	0.25327
2/7/04	1300	-0.672	764	0.1	2.942	265.8	18.92	83.7	147.6	0.53131
2/7/04	1400	-0.493	764	0	3.021	264	26.09	81.2	110.2	0.39669
2/7/04	1500	0.252	763	0	3.312	285.4	26.62	66.17	167.4	0.60248
2/7/04	1600	0.15	764	0	3.73	266.5	21.13	67.8	130.6	0.47016
2/7/04	1700	0.14	764	0	3.557	274.8	21.93	66.07	75.4	0.27149
2/7/04	1800	0.001	765	0	3.176	274	22.31	71.5	26.08	0.09388
2/7/04	1900	-0.573	765	0	3.086	275.3	28.19	76.6	0.386	0.00139
2/7/04	2000	-0.922	766	0	2.703	293.8	27.55	65.97	0.013	0.00005
2/7/04	2100	-1.412	767	0	2.695	282.8	28.96	68.25	0.005	0.00002
2/7/04	2200	-1.632	768	0	2.253	281.7	32.98	68.95	0.002	0.00001
2/7/04	2300	-1.724	768	0	2.227	278.3	27.29	72.1	0.006	0.00002
2/7/04	2400	-1.831	769	0	3.021	284.1	18.76	74.6	0.001	0
2/8/04	100	-1.956	770	0	2.85	291.2	20.71	75.4	0.005	0.00002
2/8/04	200	-1.975	770	0	1.406	287.6	26.8	73.4	0.001	0
2/8/04	300	-2.047	771	0	0.954	236	27.64	75.7	0.001	0
2/8/04	400	-2.068	771	0	1.564	263.4	27.72	76.1	0.001	0
2/8/04	500	-2.228	771	0	1.242	246.5	29.82	75.4	0.001	0
2/8/04	600	-2.255	772	0	1.191	310.5	24.09	73.9	0.002	0.00001
2/8/04	700	-2.247	773	0	1.856	5.457	34.76	74.8	0.003	0.00001
2/8/04	800	-2.467	774	0	3.403	29.19	14.06	70.4	4.277	0.0154
2/8/04	900	-2.296	774	0	2.645	29.58	16.76	67.28	38.09	0.13712
2/8/04	1000	-1.945	774	0	3.741	59.91	21.54	63.87	155.4	0.55941
2/8/04	1100	-0.852	774	0	2.914	62.58	33.55	57.51	406.5	1.4635
2/8/04	1200	0.354	775	0	2.793	77.1	58.11	56.7	594.3	2.1396
2/8/04	1300	1.475	775	0	2.104	64.49	49.61	52.11	637.7	2.2955
2/8/04	1400	2.658	774	0	2.59	45.32	34.58	45.87	627.9	2.2604
2/8/04	1500	3.913	773	0	2.113	76.9	44.45	43.96	559.2	2.013
2/8/04	1600	4.602	772	0	2.222	75.7	56.38	44.13	398.7	1.4352
2/8/04	1700	5.275	772	0	1.349	75.2	65.61	42.06	243.8	0.87785
2/8/04	1800	4.791	771	0	1.143	80	30.9	46.87	45.81	0.16493
2/8/04	1900	2.67	771	0	0.94	229.3	40.2	61.28	0.684	0.00246
2/8/04	2000	0.798	771	0	1.244	243.2	9.77	70.8	0.01	0.00004
2/8/04	2100	0.114	771	0	0.491	289	30.59	75.4	0.002	0.00001
2/8/04	2200	-0.63	771	0	0.698	12.75	34.04	80.2	0.002	0.00001
2/8/04	2300	-1.388	771	0	0.544	290.5	62.96	82.9	0.001	0
2/8/04	2400	-1.575	771	0	0.503	292	53.5	84.6	0.001	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/9/04	100	-1.597	771	0	0.503	265.8	33.38	83.9	0	0
2/9/04	200	-1.638	772	0	0.282	353.6	54.56	86.7	0	0
2/9/04	300	-0.855	772	0	1.072	227.3	49.89	65.52	0	0
2/9/04	400	0.857	772	0	1.696	217.4	14.26	63.77	0.006	0.00002
2/9/04	500	0.894	772	0	1.53	211.9	21.14	61.16	0.007	0.00003
2/9/04	600	1.019	771	0	1.296	211.3	20.74	67.58	0.005	0.00002
2/9/04	700	0.244	771	0	0.398	3.239	51.11	73.2	0.006	0.00002
2/9/04	800	-0.339	771	0	0.708	0.104	32.77	74.9	8.74	0.03146
2/9/04	900	0.365	771	0	0.339	223.3	66.84	61.93	105.1	0.37844
2/9/04	1000	2.502	771	0	1.917	264.2	23.65	55.77	185.8	0.66872
2/9/04	1100	4.095	771	0	2.461	229.9	27.36	49.98	238.4	0.8583
2/9/04	1200	5.121	771	0	3.135	227.5	17.08	50.84	259.9	0.93559
2/9/04	1300	6.419	770	0	3.37	243.5	16.91	47.67	157.1	0.56546
2/9/04	1400	7.58	770	0	4.357	232.3	16.8	43.59	256.3	0.92279
2/9/04	1500	8.54	769	0	4.697	223	18.18	48.2	271	0.97545
2/9/04	1600	8.71	768	0	4.043	219.1	16.49	54.21	185.1	0.66637
2/9/04	1700	8.45	768	0	3.025	218.1	17.59	54.04	53.12	0.19122
2/9/04	1800	8.13	768	0	2.207	213.9	22.56	54.35	14.39	0.05181
2/9/04	1900	7.41	768	0	1.257	229.3	13.94	57.93	0.447	0.00161
2/9/04	2000	6.389	768	0	1.005	234.2	16.95	58.73	0	0
2/9/04	2100	6.207	768	0	0.687	243.9	29.06	58.43	0	0
2/9/04	2200	6.039	768	0	0.927	242.9	19.78	61.7	0.001	0
2/9/04	2300	5.723	768	0	0.704	248.2	15.78	63.94	0.001	0
2/9/04	2400	5.865	768	0	0.616	277.7	24.23	65.91	0.001	0
2/10/04	100	5.565	767	0	0.584	269.1	21.95	67.65	0.003	0.00001
2/10/04	200	5.398	767	0	0.316	337.9	37.82	71.6	0.002	0.00001
2/10/04	300	5.134	767	0	0.681	7.4	37.86	73.3	0.001	0
2/10/04	400	5.04	767	0	0.55	280.6	62.59	74.7	0.004	0.00001
2/10/04	500	4.772	766	0	0.253	293.2	43.4	81	0.008	0.00003
2/10/04	600	4.546	766	0	0.731	241.3	41.93	81.9	0.004	0.00001
2/10/04	700	4.344	766	0	1.116	230.9	13.57	88.3	0.004	0.00001
2/10/04	800	4.025	766	0.2	0.722	240.5	36.07	90.4	2.063	0.00743
2/10/04	900	4.302	766	0	0.675	234.7	37.78	89.1	21.24	0.07647
2/10/04	1000	4.711	766	0	0.938	228.5	28.39	86.3	36.77	0.13237
2/10/04	1100	5.468	766	0	1.157	221.4	21.14	78.8	86.6	0.31183
2/10/04	1200	6.068	766	0	1.556	220.6	18.21	77	60.76	0.21875
2/10/04	1300	6.597	766	0	2.067	216.7	14.32	74.7	98.3	0.35398
2/10/04	1400	7.4	766	0	2.69	242.5	23.94	75.5	237.5	0.85514
2/10/04	1500	8.31	765	0	2.575	265.3	25.01	71	246.1	0.88579
2/10/04	1600	9.24	764	0	2.822	259.7	24.2	57.82	251.3	0.90466
2/10/04	1700	9.51	764	0	2.621	247.9	26.24	61.82	145.8	0.52479
2/10/04	1800	8.85	764	0	1.976	224.8	15.26	62.83	42	0.15121
2/10/04	1900	7	765	0	1.264	238.3	19.87	68.58	0.647	0.00233

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/10/04	2000	4.795	765	0	0.779	271.6	32.85	72	0.002	0.00001
2/10/04	2100	3.243	765	0	0.644	289.9	56.93	78.2	0.009	0.00003
2/10/04	2200	1.634	765	0	0.985	254.9	21.25	85.7	0.009	0.00003
2/10/04	2300	0.958	765	0	0.853	270.7	23.09	88.1	0.005	0.00002
2/10/04	2400	0.342	765	0	0.856	252.7	18.68	91	0.004	0.00001
2/11/04	100	0.06	765	0	1.367	240.8	16.85	92.1	0.01	0.00003
2/11/04	200	0.112	766	0	0.797	258	48.07	88.8	0.009	0.00003
2/11/04	300	0.141	765	0	0.853	18.3	22.13	90.5	0.007	0.00002
2/11/04	400	0.053	766	0	0.594	24.91	42.63	91.1	0.004	0.00002
2/11/04	500	0.042	766	0	0.389	24.65	34.66	89.5	0.006	0.00002
2/11/04	600	0.061	765	0	0.503	0.714	28.1	90.4	0.01	0.00003
2/11/04	700	0.019	766	0	0.453	290.9	31.97	89.2	0.006	0.00002
2/11/04	800	0.074	766	0	0.559	301.4	53.32	89.7	4.365	0.01571
2/11/04	900	0.524	766	0	0.655	5.381	32.14	84.9	49.86	0.17951
2/11/04	1000	1.794	767	0	0.823	13.03	18.94	71.8	135	0.48592
2/11/04	1100	3.59	767	0	1.97	17.78	18.79	64.62	201	0.72369
2/11/04	1200	5.08	767	0	1.571	12.05	28.25	57.53	307.9	1.1083
2/11/04	1300	6.328	767	0	1.675	353.5	26.47	51.71	267.8	0.96396
2/11/04	1400	7.1	766	0	1.69	356.3	47.14	45.3	351.5	1.2655
2/11/04	1500	7.42	766	0	1.531	50.23	38.68	42.82	285.7	1.0285
2/11/04	1600	7.86	766	0	1.782	43.96	42.78	40.45	273.5	0.9845
2/11/04										
2/11/04	1800	7.61	765	0	1.705	12.01	19.39	43.23	31.66	0.11398
2/11/04	1900	7	766	0	1.256	29.28	20.74	45.53	0.244	0.00088
2/11/04	2000	6.371	766	0	1.001	28.52	21	48.91	0	0
2/11/04	2100	5.884	766	0	1.238	35.27	17.78	52.41	0	0
2/11/04	2200	5.723	766	0	0.82	32.57	26.27	52.35	0	0
2/11/04	2300	5.444	765	0	0.741	22.11	35.56	55.25	0	0
2/11/04	2400	5.092	766	0	0.724	299.3	59.73	59.93	0.002	0.00001
2/12/04	100	4.899	765	0	0.615	13.03	59.06	68.42	0.001	0
2/12/04	200	3.993	765	0.2	1.688	38.19	18.38	86.6	0.005	0.00002
2/12/04	300	2.681	765	0.5	1.909	43.86	14.97	92.2	0.01	0.00004
2/12/04	400	1.642	765	0.4	1.81	45.33	15.57	94.9	0.016	0.00006
2/12/04	500	0.644	765	0.3	1.73	34.68	10.75	97	0.015	0.00006
2/12/04	600	0.674	764	0.3	2.402	32.44	13.14	97.3	0.012	0.00004
2/12/04	700	0.884	764	0.3	2.438	26.56	15.97	97	0.009	0.00003
2/12/04	800	1.22	764	0	1.908	36.32	17.2	96	4.446	0.01601
2/12/04	900	1.701	764	0.1	2.129	33.35	17.6	94.8	27.5	0.09899
2/12/04	1000	2.035	765	0.1	2.178	29.78	15.67	95.3	68.82	0.24776
2/12/04	1100	2.598	765	0.1	2.253	23.14	16.5	94.5	107.4	0.38648
2/12/04	1200	3.196	766	0.1	2.486	21.55	17.89	93.8	116.2	0.41837
2/12/04	1300	3.83	766	0	2.22	26.5	16.21	89.7	177.2	0.63785
2/12/04	1400	4.487	766	0	2.164	33.67	19.93	86.2	123.3	0.44394

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/12/04	1500	5.217	765	0	2.444	51.4	22.63	79.1	215	0.77412
2/12/04	1600	5.69	765	0	2.058	59.7	18.02	79.4	107.9	0.38856
2/12/04	1700	5.963	766	0	1.531	33.89	25.25	77.8	45.02	0.16207
2/12/04	1800	5.606	766	0	0.971	133.8	40.56	86	16.11	0.05801
2/12/04	1900	4.615	766	0	1.124	180.3	42.67	90.3	0.709	0.00255
2/12/04	2000	3.181	766	0	0.907	239.2	36.41	94.4	0.001	0
2/12/04	2100	2.995	767	0	0.602	315.8	67.1	94.7	0.013	0.00005
2/12/04	2200	2.602	767	0	0.474	276.6	38.09	95.3	0.023	0.00008
2/12/04	2300	2.772	767	0	0.783	248	25.49	96	0.02	0.00007
2/12/04	2400	2.984	767	0	0.981	245.7	14.38	96.2	0.018	0.00006
2/13/04	100	2.974	767	0	0.557	4.883	55.58	96.1	0.016	0.00006
2/13/04	200	2.87	767	0	0.711	253.8	37.68	96.4	0.011	0.00004
2/13/04	300	2.617	767	0	0.506	352.1	54.74	96.8	0.022	0.00008
2/13/04	400	1.434	767	0	0.453	328.8	45.73	97.6	0.014	0.00005
2/13/04	500	0.057	767	0	0.629	254.6	36.17	98.3	0.011	0.00004
2/13/04	600	-0.131	767	0	0.447	300.9	45.43	98.5	0.008	0.00003
2/13/04	700	-0.613	768	0	0.498	279.7	63.3	98.6	0.012	0.00004
2/13/04	800	-0.714	768	0	0.59	247	35.14	97.7	11.29	0.04066
2/13/04	900	0.379	768	0	0.389	118.8	68.21	91.8	155.2	0.5587
2/13/04	1000	1.723	769	0	1.233	198.5	20.65	82.2	335.8	1.209
2/13/04	1100	3.359	769	0	1.012	226.7	33.13	80.1	287.7	1.0356
2/13/04	1200	4.615	768	0	0.807	214.1	29.86	73.5	327.8	1.18
2/13/04	1300	6.128	768	0	1.141	226.9	58.63	66.94	479.8	1.7274
2/13/04	1400	7.54	768	0	1.648	205.9	48.13	63.45	481.4	1.733
2/13/04	1500	8.59	767	0	1.504	251.6	78.6	56.67	398.9	1.4362
2/13/04	1600	9.22	767	0	1.573	271.9	42.36	40.71	260.6	0.93801
2/13/04	1700	9.37	766	0	1.544	245.5	40.58	55.28	131	0.47171
2/13/04	1800	8.39	766	0	2.038	156.4	11.13	51.11	35.34	0.12722
2/13/04	1900	7.16	766	0	0.773	199.8	35.06	61.3	0.402	0.00145
2/13/04	2000	6.157	766	0	0.609	267.4	26.47	66.78	0	0
2/13/04	2100	5.269	766	0	0.666	270	29.99	73	0	0
2/13/04	2200	4.549	766	0	0.954	251.2	24.67	79.4	0.001	0
2/13/04	2300	3.974	766	0	0.426	277	51.52	80.9	0.005	0.00002
2/13/04	2400	3.666	766	0	0.612	15.79	20.64	84.8	0.009	0.00003
2/14/04	100	3.28	766	0	0.457	309.9	51.62	85.6	0.013	0.00005
2/14/04	200	2.955	765	0	0.841	20.71	24.86	86.9	0.013	0.00005
2/14/04	300	2.744	765	0	0.205	349.6	18.67	86	0.019	0.00007
2/14/04	400	2.585	764	0	0.833	26.95	27.62	87.2	0.018	0.00006
2/14/04	500	2.411	763	0	0.641	23.04	18.13	88.3	0.016	0.00006
2/14/04	600	2.433	764	0	0.466	291	58.3	88.3	0.02	0.00007
2/14/04	700	2.516	764	0	0.983	18.57	12.53	89.7	0.02	0.00007
2/14/04	800	2.576	763	0	0.849	13.1	15.57	87.3	5.523	0.01988
2/14/04	900	3.048	763	0	1.052	15.64	14.4	81	37.95	0.13661

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/14/04	1000	4.106	763	0	0.961	16.86	29.58	72.3	80.3	0.28913
2/14/04	1100	4.938	763	0	1.275	26.32	19.39	69.9	92.3	0.33214
2/14/04	1200	6.308	763	0	1.599	350.9	18.26	61.63	168.5	0.60676
2/14/04	1300	7.1	763	0	1.919	4.17	20.03	50.04	195.3	0.70325
2/14/04	1400	8.1	762	0	1.845	25.81	26.66	48.8	214.8	0.77326
2/14/04	1500	9.26	761	0	1.006	73.6	57.27	42.82	332.5	1.1971
2/14/04	1600	11.04	761	0	1.004	85.2	60.47	38.74	397.1	1.4297
2/14/04	1700	11.18	760	0	1.289	109.8	45.17	40.54	214.2	0.77109
2/14/04	1800	10.54	760	0	2.44	132.2	13.38	42.81	94.2	0.339
2/14/04	1900	8.3	760	0	1.202	107	75.8	56.79	1.38	0.00497
2/14/04	2000	6.024	760	0	0.704	22	28.36	66.01	0	0
2/14/04	2100	4.269	760	0	0.733	25.16	17.76	73.5	0.002	0.00001
2/14/04	2200	2.904	760	0	0.517	17.12	28.97	79.6	0.007	0.00003
2/14/04	2300	1.812	760	0	0.654	10.42	57.12	82.2	0.011	0.00004
2/14/04	2400	1.402	759	0	0.897	29.9	15.02	82.4	0.016	0.00006
2/15/04	100	2.172	759	0	1.414	33.61	12.54	74.7	0.015	0.00005
2/15/04	200	3.724	759	0	1.905	41.43	14.4	66.73	0.018	0.00006
2/15/04	300	4.47	758	0	2.059	44.37	14.61	53.16	0.017	0.00006
2/15/04	400	4.911	758	0	2.093	31.79	17.02	51.45	0.011	0.00004
2/15/04	500	4.942	758	0	2.086	20.13	28.76	52.46	0.002	0.00001
2/15/04	600	4.42	758	0.3	3.504	27.59	18.52	67.79	0.005	0.00002
2/15/04	700	2.8	757	0.2	2.687	41.85	15.7	80.6	0.014	0.00005
2/15/04	800	2.82	757	0	2.808	40.5	13.45	76.3	16.69	0.0601
2/15/04	900	4.068	757	0	4.516	41	11.44	62.21	58.08	0.2091
2/15/04	1000	5.171	756	0.1	4.31	36.52	14.57	67.85	111.7	0.40215
2/15/04	1100	5.255	756	0.1	4.056	28.19	14.53	66.08	84.6	0.30442
2/15/04	1200	6.017	756	0	4.073	43.53	16.79	68.15	48.03	0.1729
2/15/04	1300	5.013	756	0.8	4.44	28.39	14.37	84.1	35.98	0.12954
2/15/04	1400	4.119	756	0.8	2.507	8.68	55.57	88.3	24.32	0.08756
2/15/04	1500	3.622	757	1.1	2.704	355.3	48.74	91.3	33.24	0.11966
2/15/04	1600	1.711	758	1.1	4.474	32.33	14.21	94.1	26.59	0.09571
2/15/04	1700	0.879	759	0.8	3.725	27.48	13.44	96	19.1	0.06876
2/15/04	1800	0.877	761	0.7	3.277	30.01	14.34	95.4	15.55	0.05596
2/15/04	1900	1.038	762	0.3	3.721	28.12	13.16	93.7	0.43	0.00155
2/15/04	2000	1.214	763	0.1	3.592	35.07	12.48	94.4	0.011	0.00004
2/15/04	2100	1.374	764	0	2.324	30.49	15.86	93.9	0.009	0.00003
2/15/04	2200	1.471	764	0	2.406	41.81	13.03	90.9	0.01	0.00003
2/15/04	2300	1.364	765	0	2.444	35.88	14.79	84.4	0.012	0.00004
2/15/04	2400	1.027	765	0	2.67	32.72	16.52	81	0.016	0.00006
2/16/04	100	0.69	765	0	2.688	32.05	13.87	79.5	0.018	0.00006
2/16/04	200	0.517	766	0	2.238	23.9	13.44	77.3	0.019	0.00007
2/16/04	300	0.488	766	0	1.674	15.6	16.59	75.8	0.018	0.00007
2/16/04	400	0.445	767	0	1.958	30.95	13.6	75.9	0.015	0.00005

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/16/04	500	0.337	767	0	2.403	28.04	12.73	77.3	0.017	0.00006
2/16/04	600	0.142	768	0	2.434	20.93	12.89	78	0.022	0.00008
2/16/04	700	-0.134	768	0	3.097	27.05	11.7	78	0.042	0.00015
2/16/04	800	-0.36	768	0	2.716	31.07	13.82	76.9	11.14	0.0401
2/16/04	900	-0.337	769	0	2.675	29.29	14.4	75.8	68.14	0.24531
2/16/04	1000	0.071	770	0	2.806	26.46	16.42	72.4	160.6	0.57812
2/16/04	1100	0.838	770	0	3.192	31.22	16.52	73	361.7	1.3019
2/16/04	1200	2.191	771	0	2.573	25.81	19.93	74.1	481.4	1.7332
2/16/04	1300	3.701	770	0	2.001	17.08	27.09	72.9	496.6	1.7878
2/16/04	1400	4.584	770	0	2.157	22.54	23.12	74.5	310.5	1.1177
2/16/04	1500	5.133	769	0	2.456	20.61	31.25	73.7	198.9	0.71615
2/16/04	1600	5.068	769	0	2.393	17.91	23.41	73.6	105.5	0.37976
2/16/04	1700	5.024	769	0	1.986	25.96	14.85	74.6	71	0.25572
2/16/04	1800	4.907	769	0	1.452	32.02	19.63	75.4	19.37	0.06973
2/16/04	1900	4.567	769	0	1.36	29.86	26.54	77.4	0.351	0.00126
2/16/04	2000	4.235	770	0	1.268	44.76	21.96	79	0.003	0.00001
2/16/04	2100	4.171	770	0	0.96	74.7	45.59	78.3	0.003	0.00001
2/16/04	2200	4.128	770	0	0.699	196.3	43.29	80	0.003	0.00001
2/16/04	2300	3.825	770	0	1.504	212.4	26.02	88.2	0.006	0.00002
2/16/04	2400	3.476	770	0	0.795	345	62	90.4	0.005	0.00002
2/17/04	100	3.368	770	0	0.545	23.77	44.2	90.5	0.01	0.00004
2/17/04	200	3.281	770	0	0.435	292.7	21.78	91.6	0.009	0.00003
2/17/04	300	3.189	770	0	0.49	316.2	37.63	92.4	0.013	0.00005
2/17/04	400	3.105	770	0	0.583	347.5	24.8	93.5	0.011	0.00004
2/17/04	500	2.998	770	0	0.704	247.9	35.9	94.4	0.014	0.00005
2/17/04	600	2.992	770	0	0.76	232.8	11.38	94.3	0.021	0.00008
2/17/04	700	3.032	770	0	0.69	189.1	24.83	94.1	0.016	0.00006
2/17/04	800	3.119	770	0	0.617	199.1	31.6	93.8	1.665	0.00599
2/17/04	900	3.36	771	0	0.793	2.57	24.25	93.1	14.96	0.05386
2/17/04	1000	3.455	771	0	1.207	268.3	38.53	88.4	35.36	0.12729
2/17/04	1100	3.516	771	0	1.491	255.9	21.13	83.5	66.24	0.23845
2/17/04	1200	3.61	771	0	1.995	258.3	24.32	80.9	110.8	0.39883
2/17/04	1300	3.687	771	0	2.096	234.9	18.99	77.4	84.4	0.30387
2/17/04	1400	3.529	771	0	1.972	244.1	25.14	76.2	98.1	0.3533
2/17/04	1500	3.904	770	0	2.201	261.8	19.92	76.6	87.3	0.3144
2/17/04	1600	3.889	770	0	1.938	283.1	18.85	79.7	87.5	0.31489
2/17/04	1700	3.923	770	0	1.155	287.1	26.55	80.8	55.38	0.19936
2/17/04	1800	3.895	770	0	1.246	253.2	36.59	80.6	15.43	0.05555
2/17/04	1900	3.809	770	0	1.529	238.8	22.07	79.8	0.688	0.00248
2/17/04	2000	3.666	770	0	1.689	251.5	23.2	83.2	0.007	0.00003
2/17/04	2100	2.097	771	0	1.303	230.6	17.19	90.5	0.013	0.00005
2/17/04	2200	1.431	771	0	0.791	260.3	26.08	91.1	0.013	0.00005
2/17/04	2300	0.957	771	0	0.66	275.2	43.8	93	0.009	0.00003

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/17/04	2400	0.569	771	0	1.219	249.3	23.81	94.3	0.014	0.00005
2/18/04	100	-0.45	771	0	1.423	237.4	13.09	96.8	0.009	0.00003
2/18/04	200	-0.895	771	0	0.845	254.8	38.27	97.4	0.007	0.00003
2/18/04	300	-1.285	771	0	0.499	351.6	43.36	97.3	0.001	0
2/18/04	400	-1.668	770	0	0.64	355.2	37.94	97.5	0.001	0
2/18/04	500	-1.144	771	0	0.813	53.92	34.7	98.1	0.008	0.00003
2/18/04	600	-1.006	771	0	0.978	42.9	38.46	98.5	0.018	0.00006
2/18/04	700	-1.451	771	0	0.702	82	55.4	99	0.046	0.00016
2/18/04	800	-2.233	771	0	0.959	77.4	31.93	99.2	15.38	0.05536
2/18/04	900	-2.599	771	0	1.005	165.8	37.99	99.2	104.1	0.37483
2/18/04	1000	-1.5	771	0	0.822	12.43	53.23	98.6	302	1.0872
2/18/04	1100	1.165	772	0	1.317	52.45	48.11	73.1	545.5	1.9639
2/18/04	1200	5.021	772	0	1.014	13.92	56.9	41.65	632.5	2.2771
2/18/04	1300	6.254	771	0	1.243	136.3	64.91	40.54	667	2.4013
2/18/04	1400	7.3	771	0	1.334	109.2	77.5	39.37	641.4	2.3091
2/18/04	1500	8.55	770	0	1.594	250.1	72.2	38.07	583.4	2.1002
2/18/04	1600	9.31	769	0	2.12	208.5	29.57	38.7	463.9	1.6701
2/18/04	1700	9.58	768	0	2.154	231.8	24.52	35.73	286.8	1.0326
2/18/04	1800	9.63	768	0	2.148	255.4	21.6	38	101.4	0.36508
2/18/04	1900	7.43	768	0	1.19	239.2	18.67	54.68	2.315	0.00833
2/18/04	2000	4.945	768	0	0.602	282.3	52.07	62.41	0	0
2/18/04	2100	3.021	768	0	0.87	257.4	36.73	70.9	0.002	0.00001
2/18/04	2200	1.476	767	0	1.232	239.9	12.77	80.3	0.012	0.00004
2/18/04	2300	0.433	767	0	1.092	259.6	18.65	80.3	0.007	0.00003
2/18/04	2400	-0.253	767	0	1.13	251.4	17.91	85.6	0.008	0.00003
2/19/04	100	-1.068	767	0	0.985	244.2	20.36	88.9	0.007	0.00002
2/19/04	200	-1.567	767	0	1.143	233.9	17.93	88.2	0.005	0.00002
2/19/04	300	-1.685	766	0	0.744	266.8	25.27	89.4	0.006	0.00002
2/19/04	400	-2.3	766	0	1.963	240.1	6.696	92.3	0.004	0.00001
2/19/04	500	-2.153	766	0	1.105	257	14.35	89.7	0.007	0.00003
2/19/04	600	-2.401	766	0	0.746	266.9	48.47	92.5	0.003	0.00001
2/19/04	700	-2.5	766	0	0.519	284.5	33.42	91.6	0.058	0.00021
2/19/04	800	-2.336	766	0	0.532	295.5	52.07	90.7	12.28	0.04422
2/19/04	900	0.368	766	0	0.329	233.2	55.21	73.4	205.7	0.74052
2/19/04	1000	3.926	766	0	1.253	237.9	28.91	62.08	389.8	1.4033
2/19/04	1100	6.814	766	0	2.472	224	19.02	49.37	511.8	1.8425
2/19/04	1200	9.42	765	0	3.583	234.5	19.56	48.02	552.8	1.9899
2/19/04	1300	11.26	765	0	2.946	231.7	26.61	43.81	611.5	2.2013
2/19/04	1400	12.96	764	0	2.859	228.3	29.57	37.06	587.9	2.1163
2/19/04	1500	14.24	763	0	2.424	213.8	33.79	38.49	501.9	1.8067
2/19/04	1600	14.9	762	0	3.192	215.6	23.55	31.52	322.2	1.1601
2/19/04	1700	15.05	761	0	3.2	227.7	13.86	30.25	189.4	0.68185
2/19/04	1800	15.04	761	0	2.087	216.1	19.48	33.19	100.7	0.36245

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/19/04	1900	12.36	761	0	0.776	217.9	26.85	43.55	1.686	0.00607
2/19/04	2000	9.77	761	0	0.821	269.2	22.42	55.65	0.002	0.00001
2/19/04	2100	7.96	760	0	1.106	267.7	53.74	59.83	0	0
2/19/04	2200	6.554	760	0	0.996	265.9	31.87	64.31	0.001	0
2/19/04	2300	5.567	760	0	0.875	269.1	29.79	67.92	0.002	0.00001
2/19/04	2400	4.738	759	0	0.386	306.1	30.34	72.8	0.001	0
2/20/04	100	4.196	759	0	0.723	264.9	31.72	71.8	0.007	0.00003
2/20/04	200	3.823	759	0	0.687	264.1	33.4	74.4	0.011	0.00004
2/20/04	300	3.375	759	0	0.275	350.7	45.86	77.8	0.014	0.00005
2/20/04	400	2.684	759	0	0.307	317.5	44.7	79.7	0.015	0.00005
2/20/04	500	1.61	759	0	0.756	255	34.26	86	0.017	0.00006
2/20/04	600	4.421	759	0	2.336	230.4	24.21	62.36	0.02	0.00007
2/20/04	700	8.26	758	0	3.564	207.7	13.26	65.52	0.091	0.00033
2/20/04	800	8.39	759	0	3.389	198.6	13.53	72.4	24.57	0.08846
2/20/04	900	9.78	758	0	4.191	208.6	14.94	71.1	48.34	0.17401
2/20/04	1000	11.13	758	0	5.129	212.7	16.1	68.67	85.4	0.30734
2/20/04	1100	11.84	758	0	5.029	215.4	16.15	66.16	112.6	0.40531
2/20/04	1200	12.78	758	0	5.511	207.4	17.62	65.22	133.2	0.47965
2/20/04	1300	13.14	756	0	5.76	212.1	17.06	65.82	70.7	0.25462
2/20/04	1400	13.21	756	0	5.609	214.9	17.98	67.92	63.15	0.22733
2/20/04	1500	13.13	755	0	5.468	217.1	17.23	71.5	47.85	0.17227
2/20/04	1600	12.79	755	0	4.661	217.8	15.37	77.6	20.91	0.07527
2/20/04	1700	12.91	755	0	4.413	207.5	15.59	72.5	29.7	0.10691
2/20/04	1800	13.68	754	0	4.241	213	17.19	72.1	11.31	0.0407
2/20/04	1900	13.98	755	0	3.763	224.9	22.15	70.7	0.287	0.00103
2/20/04	2000	14.18	755	0	4.211	210.9	14.65	70.4	0.007	0.00002
2/20/04	2100	14.22	754	0	4.499	209.8	15.19	70.9	0.008	0.00003
2/20/04	2200	14.22	754	0	4.385	213.8	15.61	73.9	0.007	0.00002
2/20/04	2300	14.09	754	0.1	4.674	213.3	17.08	78.9	0.015	0.00005
2/20/04	2400	12.33	754	0.5	3.4	254.1	21.74	89.9	0.008	0.00003
2/21/04	100	11.45	755	0	3.161	286	25.5	75.7	0.009	0.00003
2/21/04	200	10.34	755	0	3.322	276.3	27.82	73.9	0.006	0.00002
2/21/04	300	8.74	756	0	4.804	294.4	20.05	73.3	0.001	0
2/21/04	400	7.56	757	0	3.863	297.8	24.78	70.7	0	0
2/21/04	500	6.645	757	0	2.739	294	21.8	67.55	0	0
2/21/04	600	5.969	758	0	1.554	260.6	29.55	73.9	0	0
2/21/04	700	5.44	758	0	1.534	224.7	24.05	72	0.039	0.00014
2/21/04	800	4.275	759	0	1.025	235.3	24.73	73.9	23.85	0.08587
2/21/04	900	5.481	760	0	2.291	226.2	24.37	62.64	165.4	0.59559
2/21/04	1000	6.338	760	0	3.346	261.6	21.25	61.2	251.2	0.90427
2/21/04	1100	6.915	760	0	3.673	261.6	20.76	62.03	426.8	1.5364
2/21/04	1200	7.99	761	0	4.022	263.4	24.14	54.97	640.1	2.3043
2/21/04	1300	8.49	761	0	3.971	265	23.91	52.73	540.4	1.9455



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/21/04	1400	9	761	0	3.665	266.6	24.64	51.43	594.5	2.1402
2/21/04	1500	9.53	761	0	4.056	255.7	22.27	50.19	527.2	1.8979
2/21/04	1600	10.1	761	0	3.513	277.3	28.41	46.15	426.4	1.5352
2/21/04	1700	9.91	761	0	3.154	295.1	28.06	49.12	246.4	0.88721
2/21/04	1800	9.08	762	0	2.343	291.6	23.04	50.63	90.8	0.3267
2/21/04	1900	8.11	762	0	1.467	284	29.17	53.25	3.88	0.01397
2/21/04	2000	6.857	763	0	0.778	305.3	42.45	63.57	0	0
2/21/04	2100	4.654	763	0	0.445	0.174	33.76	71	0.004	0.00001
2/21/04	2200	3.672	764	0	1.118	7.15	34.67	71.9	0.007	0.00002
2/21/04	2300	3.425	764	0	1.081	22.62	35.07	70.2	0.012	0.00004
2/21/04	2400	2.507	765	0	1.188	43.33	38.31	71.8	0.013	0.00005
2/22/04	100	1.779	764	0	0.566	15.77	34.19	77.5	0.007	0.00003
2/22/04	200	0.775	764	0	0.501	17.77	29.89	81.6	0.001	0
2/22/04	300	0.491	765	0	0.71	23.52	22.9	80.6	0.001	0
2/22/04	400	0.173	764	0	0.841	28.63	33.81	81.5	0.002	0.00001
2/22/04	500	-0.908	765	0	0.386	359.9	55.18	88	0.001	0
2/22/04	600	-1.362	765	0	0.723	23.6	30.84	87.1	0	0
2/22/04	700	-1.346	765	0	0.893	41.25	19.77	87	0.083	0.0003
2/22/04	800	-1.632	765	0	0.109	73.1	27.71	88.4	28.11	0.10119
2/22/04	900	0.676	766	0	2.101	28.27	16.44	72.9	192	0.69107
2/22/04	1000	3.064	766	0	3.273	35.53	14.37	62.55	307.2	1.106
2/22/04	1100	4.745	766	0	3.073	27.83	18.99	58.39	474.3	1.7074
2/22/04	1200	6.07	766	0	2.419	27.72	31.21	55.52	469.1	1.6888
2/22/04	1300	7.66	766	0	1.999	53.19	45.53	50.33	673.6	2.4251
2/22/04	1400	9.59	765	0	2.275	14.87	42.3	45.35	675.5	2.4317
2/22/04	1500	11.08	765	0	1.697	15.13	60.73	41.51	589.3	2.1213
2/22/04	1600	12.01	765	0	1.778	358	38.07	32.86	449	1.6164
2/22/04	1700	12.43	765	0	1.517	347.1	53.65	32.86	290.5	1.046
2/22/04	1800	12.34	765	0	1.177	54.61	38.46	33.43	108.8	0.39182
2/22/04	1900	10.01	764	0	0.559	304.4	67.5	50.97	3.803	0.01369
2/22/04	2000	7.4	765	0	0.448	286.3	25.84	59.19	0	0
2/22/04	2100	5.757	765	0	0.532	358.7	30.73	67.49	0	0
2/22/04	2200	4.317	765	0	0.314	1.94	27.18	71.3	0.002	0.00001
2/22/04	2300	3.112	765	0	0.351	358.4	26.07	78.1	0.01	0.00004
2/22/04	2400	2.068	765	0	0.368	352	32.16	80.4	0.012	0.00004
2/23/04	100	1.319	765	0	0.357	1.83	28.37	84.8	0.014	0.00005
2/23/04	200	0.56	765	0	0.329	2.891	24.56	86.6	0.014	0.00005
2/23/04	300	0.336	765	0	0.354	333.4	57.93	88.1	0.011	0.00004
2/23/04	400	0.589	764	0	0.458	11.75	36.59	87.2	0.017	0.00006
2/23/04	500	0.739	764	0	0.751	287.5	73.3	89.9	0.025	0.00009
2/23/04	600	0.643	765	0	0.473	1.097	46.37	87.8	0.021	0.00008
2/23/04	700	0.892	765	0	1.373	22.52	15.73	82.4	0.068	0.00024
2/23/04	800	1.809	765	0	0.736	18.35	33.65	82.8	22.37	0.08055

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2/23/04	900	2.801	764	0	0.676	353.6	57.91	75.9	78.3	0.28176
2/23/04	1000	4.839	765	0	1.397	7.54	18.06	66.46	177.4	0.63878
2/23/04	1100	7.37	764	0	1.786	33.75	43.71	54.72	299	1.0765
2/23/04	1200	9	765	0	1.812	8.75	23.42	51.94	270.3	0.9729
2/23/04	1300	10.01	764	0	1.397	330.4	41.16	50.1	221.8	0.79834
2/23/04	1400	10.77	764	0	0.786	267.7	55.33	49.02	213.3	0.76784
2/23/04	1500	11.01	763	0	1.419	225.4	13.91	48.69	98.8	0.3558
2/23/04	1600	11.14	763	0	1.611	219.1	15.84	48.72	92.6	0.33341
2/23/04	1700	11.02	762	0	1.178	214.6	19.87	48.72	58.83	0.21178
2/23/04	1800	10.83	762	0	0.92	241.9	34.18	54.61	32.81	0.11811
2/23/04	1900	10.11	762	0	1.074	211.2	16.24	53.74	1.741	0.00627
2/23/04	2000	9.9	762	0	0.445	341.9	52.31	59.15	0.001	0
2/23/04	2100	9.15	762	0	0.502	291	82.4	62.27	0.001	0
2/23/04	2200	8.48	762	0	0.427	297.3	44.11	67.61	0	0
2/23/04	2300	7.71	762	0	0.385	349.1	65.53	70.8	0	0
2/23/04	2400	7.39	762	0	0.413	284.2	36.85	74.1	0	0
2/24/04	100	6.793	762	0	0.535	2.104	35.72	75.4	0	0
2/24/04	200	6.55	762	0	0.606	14.49	29.36	77.9	0	0
2/24/04	300	6.636	761	0	0.655	13.24	27.05	74.6	0	0
2/24/04	400	6.725	760	0	0.797	12.34	22.77	75.5	0	0
2/24/04	500	6.742	760	0	0.744	311.9	65.44	77.5	0	0
2/24/04	600	6.933	760	0	0.578	269.4	70	76.5	0	0
2/24/04	700	7.16	760	0	0.824	323.3	66.84	73.3	0.004	0.00001
2/24/04	800	7.35	761	0	0.798	254.8	61.94	72.8	4.259	0.01533
2/24/04	900	7.68	761	0	0.791	9.97	25.52	71.1	26.72	0.09621
2/24/04	1000	8.42	761	0	0.744	353.4	32.38	67.31	63.23	0.22761
2/24/04	1100	9.09	761	0.2	0.851	306.2	57.6	79.3	69.71	0.25094
2/24/04	1200	8.15	761	0.4	0.964	314.4	53.12	87.6	82.6	0.29736
2/24/04	1300	8.43	761	0.2	2.112	40.19	24.99	80.3	245.3	0.88312
2/24/04	1400	9.72	760	0	3.495	42.45	16.32	74.6	272.3	0.98031
2/24/04	1500	10.49	760	0	3.915	53.38	19.62	65.32	446.6	1.6079
2/24/04	1600	10.8	759	0	4.286	49.55	15.69	68.26	249.1	0.89666
2/24/04	1700	10.7	759	0	2.483	96.4	34.55	67.96	76	0.27372
2/24/04	1800	10.25	759	0	1.713	104.5	35.61	68.67	11.43	0.04115
2/24/04	1900	9.82	760	0	1.939	68.23	15.71	71.3	1.373	0.00494
2/24/04	2000	9.54	760	0	2.193	38.44	16.38	73.6	0.001	0
2/24/04	2100	8.91	760	0	2.099	36.63	15.06	71.7	0	0
2/24/04	2200	8.21	760	0	2.244	45.58	18.82	65.61	0	0
2/24/04	2300	8.15	761	0	3.56	41.93	13.48	63.87	0	0
2/24/04	2400	7.58	761	0	3.642	35.65	13.3	64.44	0	0
2/25/04	100	6.665	761	0	3.571	35.87	11.8	65.44	0	0
2/25/04	200	5.551	761	0	2.672	36.57	13.38	70.1	0.002	0.00001
2/25/04	300	4.512	762	0	2.651	31.51	10.89	71.4	0.004	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/25/04	400	3.792	761	0	3.223	33.72	11.42	74.7	0.012	0.00004
2/25/04	500	3.167	762	0	3.204	34.07	10.13	75	0.012	0.00004
2/25/04	600	2.841	762	0	3.628	33.28	11.58	74	0.014	0.00005
2/25/04	700	2.653	762	0	3.405	38.33	13.28	71.7	0.124	0.00045
2/25/04	800	2.515	762	0	3.858	36.53	12.6	69.97	31.4	0.11304
2/25/04	900	3.263	762	0	4.746	43.06	13.68	64.62	197.5	0.71109
2/25/04	1000	4.395	763	0	5.613	42.68	14.63	59.3	289.9	1.0435
2/25/04	1100	5.333	763	0	5.491	48.98	14.99	56.79	302.8	1.09
2/25/04	1200	6.462	763	0	5.82	50.86	19.72	53.62	468.4	1.6863
2/25/04	1300	7.81	762	0	5.333	42.94	16.13	48.5	451.9	1.6268
2/25/04	1400	8.88	762	0	5.379	49.3	16.81	47.6	307.6	1.1074
2/25/04	1500	9.83	761	0	5.923	50.24	17.42	36.51	284.5	1.0242
2/25/04	1600	10.65	760	0	4.326	66.02	20.58	33.2	221.2	0.79629
2/25/04	1700	10.57	761	0	4.383	67.25	17.71	33.87	118.3	0.42575
2/25/04	1800	10.5	761	0	4.643	54.13	15.05	32.43	44.46	0.16006
2/25/04	1900	10.08	761	0	4.213	46.75	12.83	31.33	1.943	0.00699
2/25/04	2000	9.45	761	0	3.401	41.88	14.66	31.97	0.002	0.00001
2/25/04	2100	9.05	761	0	3.837	42.5	13	31.74	0	0
2/25/04	2200	8.66	761	0	3.828	36.97	12.74	33.07	0	0
2/25/04	2300	8.37	760	0	3.761	37.36	14.26	33.27	0.001	0
2/25/04	2400	7.88	760	0	2.671	24.99	15.71	36.98	0	0
2/26/04	100	7.45	760	0	2.278	23.18	17.63	37.85	0	0
2/26/04	200	7.31	760	0	2.284	31.41	14.6	38.78	0	0
2/26/04	300	7.34	760	0	1.366	15.69	41.92	39.82	0	0
2/26/04	400	5.71	760	0	4.846	27.68	15.35	55.35	0	0
2/26/04	500	5.076	761	0	3.453	28.65	14.3	58.49	0	0
2/26/04	600	4.887	761	0	3.579	49.24	14.13	68.28	0	0
2/26/04	700	2.592	762	0.5	4.117	28.2	17.03	93.6	0.007	0.00002
2/26/04	800	0.648	762	0.5	2.644	30.4	14.76	96.6	3.605	0.01298
2/26/04	900	0.429	762	0	1.314	39.19	17.93	97.1	13.08	0.04707
2/26/04	1000	0.425	763	0	2.222	44.17	15.47	97.2	23.2	0.08353
2/26/04	1100	0.338	764	0.1	3.58	44.32	14.03	97.4	51.64	0.18591
2/26/04	1200	0.545	764	1.2	3.295	40.56	12.46	96.3	106.8	0.3845
2/26/04	1300	0.874	763	0.9	3.28	41.41	14.42	94.2	121.7	0.43807
2/26/04	1400	0.883	763	0.3	2.949	37.81	13.71	95.2	148.9	0.53621
2/26/04	1500	1.231	763	0	3.086	35.84	14.98	92.7	144.7	0.52106
2/26/04	1600	1.495	763	0	3.002	32.84	14.7	92.7	105.2	0.37868
2/26/04	1700	1.322	763	0.1	3.038	30.54	13.79	94	77.9	0.28051
2/26/04	1800	1.334	764	0.1	2.655	27.67	12.99	94	32.37	0.11654
2/26/04	1900	1.165	764	0	2.633	28.39	12.59	94.4	1.129	0.00407
2/26/04	2000	1.125	764	0	2.48	32.27	12.82	94.3	0.019	0.00007
2/26/04	2100	1.062	764	0	2.508	28.22	14.42	93.1	0.02	0.00007
2/26/04	2200	0.981	765	0	2.136	28.75	14.95	92.9	0.021	0.00007

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/26/04	2300	0.998	765	0	2.265	31.38	13.03	92.2	0.02	0.00007
2/26/04	2400	0.902	765	0	1.9	34.69	11.94	91.8	0.023	0.00008
2/27/04	100	0.801	765	0	1.489	32.01	15.91	91.9	0.019	0.00007
2/27/04	200	0.723	764	0	1.505	34.39	14.1	91.4	0.015	0.00005
2/27/04	300	0.696	764	0	1.492	33.39	13.02	90	0.02	0.00007
2/27/04	400	0.72	764	0	1.571	18.26	14.39	88.2	0.02	0.00007
2/27/04	500	0.815	765	0	1.146	32.62	17.95	87.7	0.017	0.00006
2/27/04	600	0.856	765	0	1.111	33.45	15.47	88.6	0.013	0.00005
2/27/04	700	0.941	765	0	1.153	31.54	20.27	87.4	0.107	0.00039
2/27/04	800	1.153	766	0	1.037	19.08	27.56	85.6	18.68	0.06724
2/27/04	900	1.711	766	0	1.441	20.63	23.84	82.1	88.3	0.31792
2/27/04	1000	2.461	767	0	1.838	22.12	16.82	78	147.5	0.53083
2/27/04	1100	3.488	767	0	3.07	25.54	18.26	67.35	338.8	1.2197
2/27/04	1200	4.389	767	0	3.554	32.33	18.93	67.65	531	1.9116
2/27/04	1300	5.554	768	0	3.311	21.9	27.75	66.63	618.5	2.2266
2/27/04	1400	6.359	767	0	3.367	37.7	42.01	58.95	632.1	2.2757
2/27/04	1500	7.67	767	0	2.79	11.64	31.02	57.94	629.8	2.2674
2/27/04	1600	8.41	767	0	2.231	65.77	35.88	53.87	457.7	1.6479
2/27/04	1700	8.68	767	0	2.642	45.52	21.96	52.4	236.8	0.85234
2/27/04	1800	8.9	767	0	1.858	29.18	22.02	49.67	124.5	0.44812
2/27/04	1900	7.89	768	0	1.505	79.6	51.69	60.06	4.986	0.01795
2/27/04	2000	5.454	768	0	0.529	298.8	88.2	69.96	0	0
2/27/04	2100	3.922	769	0	0.724	317.1	51.74	79	0.004	0.00001
2/27/04	2200	2.529	769	0	0.569	342.3	38.91	83.9	0.012	0.00004
2/27/04	2300	1.267	769	0	0.991	15.35	21.76	89.4	0.008	0.00003
2/27/04	2400	0.323	769	0	0.995	22.86	19.88	90.7	0.009	0.00003
2/28/04	100	-0.39	769	0	0.905	354	78.5	92.1	0.006	0.00002
2/28/04	200	-0.962	770	0	0.385	344.1	38.47	93.7	0.002	0.00001
2/28/04	300	-1.495	770	0	0.575	22.38	44.92	94.7	0.004	0.00001
2/28/04	400	-1.936	770	0	0.663	27.36	19.1	95.5	0.001	0
2/28/04	500	-2.298	770	0	0.813	18.9	39.22	95.5	0	0
2/28/04	600	-2.736	770	0	0.675	25.02	27.43	95.1	0	0
2/28/04	700	-3.09	771	0	0.708	32	19.4	94.6	0.351	0.00126
2/28/04	800	-3.182	771	0	0.38	5.426	24.37	95.6	36.66	0.13198
2/28/04	900	-0.186	771	0	0.304	225.1	36.01	90	263.8	0.94963
2/28/04	1000	3.604	772	0	0.759	9.13	37.64	74.5	454.8	1.6372
2/28/04	1100	6.905	772	0	1.57	22.01	33.02	53.21	600.3	2.1611
2/28/04	1200	9.72	772	0	2.129	56.27	41.46	43.68	674.9	2.4295
2/28/04	1300	11.72	772	0	1.333	53.8	57.51	36.66	704	2.5333
2/28/04	1400	13.28	771	0	1.502	110.1	91	28.34	693.4	2.4961
2/28/04	1500	14.56	771	0	1.271	84.3	71	28.11	637.7	2.2959
2/28/04	1600	15.51	770	0	1.428	348.3	51.89	28.01	504.1	1.8148
2/28/04	1700	15.95	770	0	1.298	5.881	45.61	22.97	325.7	1.1726

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
2/28/04	1800	15.61	769	0	1.34	65.53	84.7	25.81	133.1	0.47912
2/28/04	1900	12.41	769	0	0.677	218.8	75.8	33.49	4.889	0.0176
2/28/04	2000	9.11	769	0	0.594	273	20.32	49.17	0.001	0
2/28/04	2100	6.85	770	0	0.734	286.5	37.86	57.39	0	0
2/28/04	2200	5.162	770	0	0.393	351.4	36.07	64.25	0.001	0
2/28/04	2300	3.795	770	0	0.543	328.7	52.89	65.96	0.009	0.00003
2/28/04	2400	2.792	771	0	0.765	279	51.56	76.5	0.015	0.00005
2/29/04	100	2.264	771	0	0.236	329.7	28.82	75.3	0.015	0.00006
2/29/04	200	1.617	770	0	0.239	347.2	35.45	80	0.009	0.00003
2/29/04	300	0.811	770	0	0.334	355.6	53.18	84.1	0.013	0.00005
2/29/04	400	0.24	770	0	0.516	25.22	25.6	85.9	0.007	0.00002
2/29/04	500	0.101	769	0	0.69	27.94	18.98	88.3	0.002	0.00001
2/29/04	600	-0.312	770	0	0.324	10.39	34	86.9	0.003	0.00001
2/29/04	700	-0.376	770	0	0.759	25.39	45.99	89.5	0.582	0.00209
2/29/04	800	-0.197	770	0	0.433	354.6	40	87.5	37.7	0.13572
2/29/04	900	1.73	771	0	0.357	5.974	35.34	77.2	164.2	0.5913
2/29/04	1000	5.603	771	0	0.924	3.734	32.85	55.09	301.4	1.0852
2/29/04	1100	9.61	771	0	0.442	17.95	65.47	39.48	496.3	1.7865
2/29/04	1200	11.81	771	0	1.708	243.4	51.21	28.22	596.9	2.149
2/29/04	1300	13.63	770	0	1.259	192.7	70.3	27.95	606.1	2.182
2/29/04	1400	14.87	769	0	1.573	224.9	58.95	24.7	539.3	1.9416
2/29/04	1500	15.89	768	0	2.439	242.3	29.34	22.5	469.8	1.6914
2/29/04	1600	16.8	768	0	1.479	258.8	66.42	20.86	486.3	1.7508
2/29/04	1700	17.6	767	0	2.665	247.7	30.73	22.3	334.6	1.2046
2/29/04	1800	17.2	767	0	2.279	227.3	14.98	23.3	143.5	0.51665
2/29/04	1900	14.7	766	0	1.536	232.9	12.32	31.66	6.261	0.02254
2/29/04	2000	11.91	767	0	1.245	239.6	16.15	38.38	0.001	0
2/29/04	2100	9.48	766	0	0.629	277.5	19.69	46.17	0.001	0
2/29/04	2200	7.54	766	0	0.748	285.6	33.62	49.67	0	0
2/29/04	2300	6.938	766	0	0.622	275.9	34.09	59.06	0	0
2/29/04	2400	6.243	766	0	0.333	306.3	36.72	62.14	0.002	0.00001
3/1/04	100	5.067	766	0	0.336	353.3	41.96	69.93	0.004	0.00002
3/1/04	200	4.773	766	0	0.29	343.4	42.86	63.01	0.006	0.00002
3/1/04	300	4.134	766	0	0.762	24.31	28.51	72.3	0.007	0.00003
3/1/04	400	4.63	765	0	0.234	347.9	39.25	70.5	0.009	0.00003
3/1/04	500	5.316	766	0	0.502	13.94	28.93	70.7	0.004	0.00002
3/1/04	600	5.522	766	0	0.28	359.6	37.84	71.7	0.002	0.00001
3/1/04	700	6.21	766	0	0.496	5.83	38.18	68.38	0.144	0.00052
3/1/04	800	6.655	766	0	0.854	5.036	31.32	65.88	30.36	0.10929
3/1/04	900	8.28	766	0	1.079	8.75	28.64	54.55	139.2	0.50127
3/1/04	1000	12.44	766	0	1.079	354.1	64.55	54.1	357	1.2851
3/1/04	1100	17.48	766	0	3.472	205.2	29.26	50.95	305.3	1.0991
3/1/04	1200	18.74	765	0	5.207	199.3	19.95	46.54	407.6	1.4673

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/1/04	1300	19.82	764	0	5.098	193.8	20.08	44.03	313.9	1.1301
3/1/04	1400	20.02	764	0	4.471	188.9	20.84	43.73	207.4	0.74655
3/1/04	1500	20.21	763	0	3.741	194.3	18.7	44.97	149.3	0.53753
3/1/04	1600	20.62	763	0	4.201	190	17.51	43.2	246.8	0.88845
3/1/04	1700	20.81	762	0	3.382	189.5	21.73	44.73	100.8	0.36273
3/1/04	1800	20.44	762	0	2.69	200.9	24.49	44.8	26.79	0.09643
3/1/04	1900	19.74	763	0	5.572	202.4	18.43	53.38	0.566	0.00204
3/1/04	2000	19.04	763	0	2.552	198.3	19.72	49.74	0	0
3/1/04	2100	19.09	762	0	2.952	199.2	17.55	48.48	0	0
3/1/04	2200	19.42	762	0	3.855	203.2	17.24	49.24	0	0
3/1/04	2300	19.46	762	0	3.722	205.1	17.32	50.41	0	0
3/1/04	2400	19.51	762	0	4.019	206.1	15.72	51.95	0	0
3/2/04	100	19.61	762	0	4.726	208	15.42	56.65	0	0
3/2/04	200	17.74	763	0.1	5.226	216.5	16.6	74.7	0	0
3/2/04	300	17.22	763	0.1	5.341	209.6	15.78	80	0	0
3/2/04	400	15.4	763	0.7	3.598	237.9	22.2	92.1	0	0
3/2/04	500	14.82	763	0.2	2.554	262.6	23.4	92.5	0.003	0.00001
3/2/04	600	14.63	764	1.4	2.184	241.1	28.33	95.5	0.003	0.00001
3/2/04	700	14.47	764	0.7	2.912	206.3	13.58	94.7	0.166	0.0006
3/2/04	800	14.34	765	0.1	1.795	224.4	17.87	95.5	7.74	0.02785
3/2/04	900	14.05	765	0.4	1.914	242	20.17	88.3	27.82	0.10014
3/2/04	1000	13.65	766	0.1	1.151	223.4	16.77	91.1	55.51	0.19984
3/2/04	1100	13.61	766	0.5	1.875	252.9	24.62	92	63.13	0.22727
3/2/04	1200	13.17	767	0.4	1.89	213.1	21.13	91.6	132.1	0.4755
3/2/04	1300	13.49	767	0.1	2.42	180.1	22.4	91.9	201.2	0.72443
3/2/04	1400	13.55	767	0	3.128	178.4	19.75	86.8	268	0.96467
3/2/04	1500	13.42	766	0.2	1.564	229.5	20.01	89.6	84.7	0.30498
3/2/04	1600	13.73	766	0	1.679	212.1	18.87	84.4	200.2	0.7207
3/2/04	1700	14.63	767	0	2.263	225	15.66	80.9	231.5	0.83323
3/2/04	1800	14.61	767	0	1.931	201.9	33.71	87.2	84.4	0.30377
3/2/04	1900	13.57	767	0	1.632	174.8	18.96	90.5	6.187	0.02227
3/2/04	2000	12.49	767	0	0.685	249.9	32.22	93.3	0.006	0.00002
3/2/04	2100	11.85	768	0	0.403	272.8	40.3	94.9	0.005	0.00002
3/2/04	2200	11.75	768	0	1.13	247.2	20.3	95.3	0.004	0.00001
3/2/04	2300	11.66	768	0	1.49	234.2	16.46	94.1	0.003	0.00001
3/2/04	2400	12.13	768	0	1.803	232.1	18.06	91.1	0.002	0.00001
3/3/04	100	12.01	768	0	1.56	250.8	31.08	90.7	0.002	0.00001
3/3/04	200	11.75	769	0	0.91	302.8	20.92	92.1	0.005	0.00002
3/3/04	300	11.61	769	0	0.843	309.2	35.15	92.8	0.005	0.00002
3/3/04	400	11.38	768	0	0.779	348.5	14.74	94	0.006	0.00002
3/3/04	500	11.13	768	0	0.864	359.3	35.43	94.9	0.006	0.00002
3/3/04	600	10.9	768	0	1.247	34.93	19.46	96.1	0.004	0.00001
3/3/04	700	10.86	769	0	1.349	32.54	18.19	96.9	0.148	0.00053

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/3/04	800	10.75	769	0	1.829	36.91	25.33	96.9	16.68	0.06003
3/3/04	900	10.6	769	0	1.968	0.027	14.6	97.1	59.56	0.21443
3/3/04	1000	10.91	769	0	1.736	346.7	17.8	96.1	79.7	0.28704
3/3/04	1100	11.24	769	0	1.554	12.63	23.72	94.1	139.4	0.50198
3/3/04	1200	12.39	770	0	0.916	350.5	27.88	88.7	145.8	0.52473
3/3/04	1300	12.95	769	0	0.83	326.3	29.61	87.7	106.9	0.38494
3/3/04	1400	13.37	769	0	0.946	327.4	31.53	86	99.9	0.35973
3/3/04	1500	13.94	768	0	1.509	347.6	23.34	84.4	114.2	0.41113
3/3/04	1600	14.47	767	0	0.992	7.98	35.8	81.9	111.9	0.40277
3/3/04	1700	14.97	767	0	1.795	7.54	19.17	80.5	96.4	0.34705
3/3/04	1800	14.87	767	0	1.804	29.14	18.76	81.9	105.4	0.37956
3/3/04	1900	14.23	766	0	1.154	22.15	21.64	86.1	6.023	0.02168
3/3/04	2000	13.08	766	0	0.741	18.38	27.05	89.9	0.004	0.00001
3/3/04	2100	12.19	766	0	0.672	9.59	29.92	92.7	0.004	0.00001
3/3/04	2200	11.74	766	0	0.913	12.72	30.65	93.6	0.005	0.00002
3/3/04	2300	11.06	766	0	0.655	0.677	35.79	94.8	0.002	0.00001
3/3/04	2400	10.33	766	0	0.335	312	40.54	95.6	0.001	0
3/4/04	100	9.46	766	0	0.621	6.303	31.85	96.4	0	0
3/4/04	200	8.98	766	0	0.556	357.4	32.45	96.7	0	0
3/4/04	300	8.99	766	0	0.478	4.112	22.18	96.8	0	0
3/4/04	400	9.26	765	0	0.806	16.85	18.05	96.7	0	0
3/4/04	500	9.72	766	0	0.353	351.5	32.28	96.5	0	0
3/4/04	600	9.8	766	0	0.394	354.9	31.76	96	0	0
3/4/04	700	10.03	766	0	0.426	317.6	51.85	95.5	0.315	0.00113
3/4/04	800	10.48	766	0	0.469	318.6	40.74	94.8	26.55	0.09557
3/4/04	900	11.77	766	0	0.744	302.3	59.18	92.5	139.3	0.50138
3/4/04	1000	14.98	766	0	0.701	304.1	69.43	78.4	382.7	1.3778
3/4/04	1100	18.96	766	0	1.584	207.1	36.01	66.4	546.2	1.9662
3/4/04	1200	20.94	765	0	3.084	226.9	22.83	57.72	565.7	2.0365
3/4/04	1300	22.79	765	0	3.881	225	17.7	50.51	573.3	2.0637
3/4/04	1400	22.84	764	0	5.018	229.3	13.85	55.62	365.8	1.3168
3/4/04	1500	22.34	763	0	4.658	223.9	18.07	54.41	242.9	0.87427
3/4/04	1600	22.66	763	0	4.099	196.5	19.52	44.4	295.6	1.0643
3/4/04	1700	22.85	762	0	4.025	196.7	23	44.87	215.8	0.77674
3/4/04	1800	22.42	762	0	3.101	199.1	17.05	47.64	66.47	0.2393
3/4/04	1900	21.3	762	0	1.909	204.3	14.15	52.55	4.037	0.01453
3/4/04	2000	20.26	762	0	0.966	206	19.93	55.85	0	0
3/4/04	2100	19.53	762	0	1.125	223.5	16.77	56.95	0	0
3/4/04	2200	19.67	762	0	1.367	206.8	22.71	56.49	0	0
3/4/04	2300	19.64	761	0	1.727	211.9	22.56	58.2	0	0
3/4/04	2400	19.64	760	0	1.299	194.3	44.97	60.7	0	0
3/5/04	100	18.89	760	0	2.153	215.8	28.49	59.87	0	0
3/5/04	200	20.4	762	0	3.649	209.4	15.3	58.46	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/5/04	300	20.22	762	0	4.052	204.6	18.34	58.09	0	0
3/5/04	400	19.91	762	0	4.331	206.6	15.57	59.59	0	0
3/5/04	500	19.47	762	0	3.514	201.4	17.11	62.36	0	0
3/5/04	600	19.37	762	0	3.59	204.3	17.28	63.76	0	0
3/5/04	700	19.41	762	0	3.744	205.4	16.36	64.7	0.065	0.00023
3/5/04	800	19.48	761	0	3.285	208.9	15.18	66.07	6.13	0.02207
3/5/04	900	19.71	761	0	2.999	207.1	16.87	66.13	43.04	0.15493
3/5/04	1000	20.54	762	0	5.334	211	18.31	70.1	106.9	0.38469
3/5/04	1100	21.43	762	0	6.342	207.9	16.74	65.33	339.4	1.222
3/5/04	1200	22.48	761	0	7.15	215.6	17.11	62.33	457.6	1.6472
3/5/04	1300	22.69	761	0	7.39	213.5	16.11	66.03	232.7	0.83762
3/5/04	1400	22.07	761	0	5.519	199	22.97	68.27	116.7	0.42026
3/5/04	1500	21.49	760	0	4.016	193.8	18.58	70.6	75.1	0.27038
3/5/04	1600	21.16	760	0	4.494	197.3	19.68	70.9	84.5	0.30413
3/5/04	1700	21.31	760	0	3.755	206.3	19.85	69.64	69.46	0.25004
3/5/04	1800	21.38	759	0	3.783	202.9	19.24	70.6	24.65	0.08872
3/5/04	1900	20.35	759	0.5	3.503	200.3	19.02	85.4	0.455	0.00164
3/5/04	2000	19.03	758	1.9	1.905	207.4	38.56	89.9	0	0
3/5/04	2100	18.59	757	0.5	2.385	219.2	24.81	87.1	0	0
3/5/04	2200	19.45	757	1	4.252	204.5	16.78	88.6	0	0
3/5/04	2300	19.01	757	1.4	4.413	202.3	15.05	92.1	0	0
3/5/04	2400	19.17	756	0.2	4.355	201.7	20.86	84.3	0	0
3/6/04	100	16.99	756	1.4	2.643	313	68.75	93.7	0	0
3/6/04	200	15.3	755	9.3	2.876	244.7	41.38	96.5	0	0
3/6/04	300	14.18	757	2.5	2.516	252.9	21.65	96.8	0.001	0
3/6/04	400	13.98	757	1.6	1.604	239.2	28.61	96.9	0.003	0.00001
3/6/04	500	13.62	757	0.5	2.734	208.9	19.38	92.1	0.003	0.00001
3/6/04	600	12.42	758	0.3	2.275	203.7	20.41	87.9	0.007	0.00002
3/6/04	700	11.98	758	0	1.63	214.2	17.31	90.9	0.307	0.00111
3/6/04	800	11.99	759	0	2.028	213.8	14.11	90.8	12.46	0.04485
3/6/04	900	12.98	759	0	3.388	213.4	15.22	85.3	113	0.40673
3/6/04	1000	13.85	760	0	4.032	231.9	15.56	83.2	227.6	0.8195
3/6/04	1100	15.72	760	0	4.837	230.9	23.1	72.4	416.8	1.5006
3/6/04	1200	17.25	761	0	5.158	254.3	19.22	60.03	488.6	1.7589
3/6/04	1300	18.04	761	0	4.905	259.7	20.85	49.54	448.4	1.6143
3/6/04	1400	18.29	761	0	5.025	271.5	20.46	52.65	315.2	1.1346
3/6/04	1500	18.66	760	0	6.648	250.5	14.91	49.07	476.7	1.7161
3/6/04	1600	19.17	760	0	5.599	250.7	20.08	48.97	432.6	1.5574
3/6/04	1700	18.71	760	0	4.576	253	16.85	47.27	123.9	0.44587
3/6/04	1800	18.27	761	0	3.012	298.1	36.04	59.06	122.9	0.44232
3/6/04	1900	16.1	762	0	1.894	338.4	26.75	63.38	9.08	0.03268
3/6/04	2000	14.6	762	0	1.432	337.1	27.76	67.59	0	0
3/6/04	2100	13.3	762	0	0.786	308.5	47.77	76.3	0.004	0.00002



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/6/04	2200	11.14	763	0	0.495	343.2	40.53	81.8	0.002	0.00001
3/6/04	2300	10.28	763	0	0.397	297.8	45.89	85.2	0	0
3/6/04	2400	9.53	763	0	0.65	249.7	45.25	87.2	0.001	0
3/7/04	100	8.55	763	0	0.588	280.4	60.17	91.2	0	0
3/7/04	200	7.57	763	0	0.415	11.24	59.88	92.8	0	0
3/7/04	300	6.737	763	0	0.422	28.5	31.3	94	0.001	0
3/7/04	400	6.014	763	0	0.622	19.53	20.28	94.5	0.004	0.00002
3/7/04	500	5.17	763	0	0.548	353.3	77	95.4	0.006	0.00002
3/7/04	600	4.16	763	0	0.893	253.6	28.03	96.9	0.008	0.00003
3/7/04	700	3.833	763	0	0.876	5.016	33.73	97.4	1.073	0.00386
3/7/04	800	3.721	763	0	0.492	346.5	44.02	97.5	60.31	0.21712
3/7/04	900	6.254	763	0	0.425	247.9	47.85	96.9	285.4	1.0273
3/7/04	1000	10.28	764	0	1.398	222	26.21	70.3	478.5	1.7225
3/7/04	1100	12.73	763	0	1.831	212.2	33.62	60.81	560.3	2.017
3/7/04	1200	14.43	763	0	3.302	228.5	35.97	48.92	663.8	2.3897
3/7/04	1300	15.75	762	0	4.278	239.8	26.64	41.63	544	1.9583
3/7/04	1400	16.72	761	0	4.9	258.2	26.38	34.92	544	1.9584
3/7/04	1500	16.81	760	0	6.021	242.4	18.97	41.16	246.5	0.88737
3/7/04	1600	16.86	759	0	5.63	253.8	14.81	35.49	185.9	0.66906
3/7/04	1700	12.21	759	0.1	6.524	291.8	29.18	70.1	33.86	0.1219
3/7/04	1800	9.66	762	0	4.67	279.3	27.34	47.8	56.88	0.20477
3/7/04	1900	10.54	762	0	2.654	275.8	28.65	34.57	15.79	0.05685
3/7/04	2000	10.62	763	0	2.758	277	30.98	28.96	0.001	0
3/7/04	2100	10.17	763	0	2.383	257.8	23.51	33.31	0	0
3/7/04	2200	9.41	763	0	2.294	251.2	18.43	34.71	0	0
3/7/04	2300	8.93	763	0	2.586	255.4	22.04	34.31	0	0
3/7/04	2400	8.56	763	0	2.609	264	22.65	31.4	0	0
3/8/04	100	8.11	763	0	3.156	262.7	21.5	34.88	0	0
3/8/04	200	7.58	764	0	1.81	268.1	29.44	37.68	0	0
3/8/04	300	7.11	763	0	2.473	261.9	32.01	41.19	0	0
3/8/04	400	6.596	763	0	2.403	292.3	41.91	42.37	0.002	0.00001
3/8/04	500	5.916	763	0	3.334	288	37.08	42.67	0.006	0.00002
3/8/04	600	5.006	763	0	2.741	261.5	24.4	49.75	0.007	0.00003
3/8/04	700	4.192	764	0	3.182	275	28.29	53.93	1.556	0.0056
3/8/04	800	3.712	764	0	2.872	256.7	21	52.49	78.6	0.28291
3/8/04	900	4.209	765	0	3.54	269.1	25.56	51.32	308.1	1.1091
3/8/04	1000	4.584	765	0	4.116	271.2	19.34	54.02	496.7	1.7882
3/8/04	1100	5.369	765	0	3.579	273.7	36.5	48.87	586.2	2.1105
3/8/04	1200	6.119	765	0	3.851	287	26.62	46.86	702	2.5284
3/8/04	1300	6.836	765	0	4.181	279.9	31.02	43.05	699.7	2.5189
3/8/04	1400	7.8	765	0	4.448	268.3	22.83	35.4	665.7	2.3964
3/8/04	1500	8.98	764	0	4.191	293.3	36.25	34.7	595.8	2.1449
3/8/04	1600	9.67	764	0	3.885	286.3	32.37	29.69	489.3	1.7615

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/8/04	1700	10.14	763	0	3.241	279.7	39.65	29.85	341	1.2275
3/8/04	1800	9.65	763	0	2.646	275.6	22.44	29.86	102.2	0.36801
3/8/04	1900	8.72	762	0	1.472	269.7	21.75	36.91	9.35	0.03365
3/8/04	2000	7.64	763	0	1.134	246.4	28.77	37.15	0.001	0
3/8/04	2100	6.666	763	0	1.3	230.4	14.06	47.04	0	0
3/8/04	2200	6.111	763	0	1.298	243.5	17.53	50.65	0	0
3/8/04	2300	5.435	763	0	0.775	264.7	26.2	54.16	0	0
3/8/04	2400	5.087	763	0	0.726	255.4	24.23	65.09	0.001	0
3/9/04	100	4.518	762	0	0.907	248.6	23.12	65.99	0.001	0
3/9/04	200	2.893	761	0	0.925	249.7	47.53	73.5	0.013	0.00005
3/9/04	300	2.555	760	0	0.485	355.5	56.08	75.2	0.009	0.00003
3/9/04	400	2.153	759	0	0.388	302.5	40.47	78.8	0.016	0.00006
3/9/04	500	1.91	759	0	1.202	26.95	26.93	78.4	0.015	0.00005
3/9/04	600	1.397	758	0	0.767	3.285	40.83	77.3	0.008	0.00003
3/9/04	700	1.751	758	0	1.004	23.93	34.51	76.4	0.819	0.00295
3/9/04	800	3.114	758	0	1.162	327.2	86.3	68.34	13.28	0.0478
3/9/04	900	4.206	759	0	1.386	65.99	36.96	60.48	141.7	0.51002
3/9/04	1000	6.393	758	0	1.004	182.9	79.2	51.11	324.7	1.1688
3/9/04	1100	7.69	758	0	1.3	349.4	52.55	49.14	224.4	0.80801
3/9/04	1200	9.31	758	0	1.379	212.7	57.78	43.45	404.7	1.457
3/9/04	1300	10.3	758	0	2.564	43.59	59.32	44.78	308.8	1.1116
3/9/04	1400	8.76	758	0.2	4.352	3.997	31.07	74.4	62.23	0.22404
3/9/04	1500	5.516	759	0.5	3.754	26.4	34.82	80.6	82.4	0.29654
3/9/04	1600	4.696	760	0.1	4.26	24.66	17.79	82.5	113.2	0.40738
3/9/04	1700	5.238	761	0	3.231	15.93	19.19	76.5	128.4	0.46221
3/9/04	1800	5.546	762	0	2.595	27.48	18.56	78.2	38.01	0.13684
3/9/04	1900	5.579	762	0	1.621	21.53	27.51	71.6	2.483	0.00894
3/9/04	2000	5.751	763	0	2.312	359.6	20.47	68.48	0.002	0.00001
3/9/04	2100	5.609	763	0	1.879	0.512	25.23	65.51	0.002	0.00001
3/9/04	2200	5.306	764	0	3.041	5.996	20.55	62.74	0.004	0.00001
3/9/04	2300	4.639	765	0	2.098	12.11	26.96	67.56	0.012	0.00004
3/9/04	2400	3.725	765	0	2.302	33.29	15.56	70.2	0.011	0.00004
3/10/04	100	3.335	765	0	2.634	24.52	16.16	69.57	0.011	0.00004
3/10/04	200	3.082	765	0	1.875	27.43	16.08	72.3	0.015	0.00006
3/10/04	300	2.388	765	0	2.265	18.49	17.8	77.2	0.009	0.00003
3/10/04	400	1.97	765	0	1.426	32.03	23	76.7	0.009	0.00003
3/10/04	500	1.467	765	0	1.436	29.29	20.76	77.1	0.003	0.00001
3/10/04	600	0.941	766	0	1.569	28.15	16.3	80.1	0.003	0.00001
3/10/04	700	0.525	767	0	1.428	27.33	16.43	81.9	2.065	0.00743
3/10/04	800	0.688	767	0	1.745	42.99	16.6	73.1	86.3	0.31083
3/10/04	900	2.392	768	0	3.011	33.58	17	61.62	313	1.1267
3/10/04	1000	4.217	768	0	3.442	39.15	19.41	51.38	502.8	1.81
3/10/04	1100	5.569	768	0	3.406	38.89	31.56	44.5	642.9	2.3145

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/10/04	1200	6.543	768	0	2.789	8.01	50.49	39.28	721	2.595
3/10/04	1300	7.31	768	0	2.116	357.8	61.04	37.9	736	2.648
3/10/04	1400	8.29	767	0	2.133	41.29	53.3	34.56	707	2.547
3/10/04	1500	9.09	767	0	2.258	57.04	40.33	30.69	641.8	2.3105
3/10/04	1600	10.05	767	0	2.263	21.2	70.7	26.31	531.4	1.913
3/10/04	1700	10.68	767	0	2.301	3.225	30.97	27.75	363.3	1.3079
3/10/04	1800	10.57	767	0	1.873	28.55	31.07	27.55	168	0.6048
3/10/04	1900	9.59	767	0	1.328	84.1	28.33	39.28	14.08	0.05068
3/10/04	2000	6.857	767	0	0.57	265	64.95	50.98	0	0
3/10/04	2100	5.15	767	0	0.508	337.3	36.99	58.7	0.004	0.00001
3/10/04	2200	3.641	767	0	0.565	300.8	49.55	67.93	0.008	0.00003
3/10/04	2300	2.178	767	0	0.72	282.6	45.6	75	0.011	0.00004
3/10/04	2400	1.232	767	0	0.637	338.9	51.94	78.1	0.01	0.00004
3/11/04	100	0.163	767	0	0.527	268.7	22.99	83.7	0.002	0.00001
3/11/04	200	-0.542	767	0	0.389	310.1	42.07	85.1	0.001	0
3/11/04	300	-1.003	767	0	0.456	307.6	52.68	84.7	0	0
3/11/04	400	-1.485	767	0	0.66	260.5	43.81	91.5	0	0
3/11/04	500	-1.965	767	0	0.989	247.2	19.29	91.5	0	0
3/11/04	600	-2.109	767	0	1.139	236.8	17.59	90.3	0	0
3/11/04	700	-2.274	767	0	0.634	246.5	29.2	90.6	4.567	0.01644
3/11/04	800	-1.621	767	0	1.638	238.3	9.42	84.6	92.1	0.33157
3/11/04	900	1.988	767	0	1.393	233.4	24.72	67.3	239.4	0.86179
3/11/04	1000	5.592	767	0	3.091	223.7	18.69	51.78	481.8	1.7346
3/11/04	1100	9.41	767	0	4.483	222.9	18.3	37.01	601	2.1637
3/11/04	1200	11.65	766	0	4.903	206.3	20.42	36.23	642.2	2.3118
3/11/04	1300	12.41	766	0	4.608	219	18.41	32.73	444	1.5984
3/11/04	1400	14.04	765	0	5.411	232.2	20.63	29.39	609.2	2.1932
3/11/04	1500	14.95	764	0	5.027	223.2	17.55	32.12	369.8	1.3313
3/11/04	1600	15.53	763	0	5.009	221.5	14.35	29.05	268.5	0.96672
3/11/04	1700	16.05	763	0	4.447	221.9	14.33	30.69	203.7	0.7333
3/11/04	1800	15.9	762	0	3.753	221.9	14.29	32.76	78	0.28063
3/11/04	1900	15.26	762	0	2.96	229.8	13.42	35.1	4.504	0.01622
3/11/04	2000	15.25	763	0	2.6	261.9	17.95	38.07	0.004	0.00001
3/11/04	2100	14.1	763	0	2.659	268.7	23.35	41.98	0.006	0.00002
3/11/04	2200	12.75	764	0	2.528	253.2	17.98	44.38	0.003	0.00001
3/11/04	2300	11.71	764	0	2.254	268.2	24.9	47.33	0.001	0
3/11/04	2400	10.53	764	0	1.782	265.6	36.86	47.27	0	0
3/12/04	100	7.97	765	0	1.487	242.4	20.7	56.32	0	0
3/12/04	200	7.22	765	0	1.547	246	11.63	54.29	0.003	0.00001
3/12/04	300	5.272	764	0	0.966	255.9	41.74	67.99	0.006	0.00002
3/12/04	400	5.34	764	0	1.531	260.2	19.74	40.83	0.005	0.00002
3/12/04	500	6.959	764	0	2.421	247.6	16.96	46.37	0.028	0.0001
3/12/04	600	4.82	765	0	1.711	245.3	11.88	55.63	0.023	0.00008

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/12/04	700	2.992	765	0	0.704	263.6	58.77	59.15	2.777	0.01
3/12/04	800	3.825	765	0	1.799	240.9	21.18	40.7	99.2	0.35706
3/12/04	900	5.366	766	0	4.074	275.3	14.35	36.71	330.5	1.1899
3/12/04	1000	5.871	766	0	3.781	263.5	21.56	35.94	513.9	1.85
3/12/04	1100	6.556	766	0	3.85	264.8	21.5	31.3	634.9	2.2857
3/12/04	1200	7.93	766	0	4.028	264	22.88	24.81	691.8	2.4904
3/12/04	1300	9.59	766	0	4.106	270.2	24.34	23.08	711	2.5586
3/12/04	1400	11.04	766	0	3.233	271.3	47.43	22.31	680.7	2.4505
3/12/04	1500	12.33	765	0	4.146	268.7	27.64	13.76	611	2.1995
3/12/04	1600	12.96	765	0	3.896	271.4	24.34	15.29	496.1	1.786
3/12/04	1700	12.62	765	0	4.016	279.3	28.88	20.7	348.3	1.2539
3/12/04	1800	11.85	765	0	2.938	285.3	28.31	21.57	165.8	0.59698
3/12/04	1900	10.57	765	0	1.9	291.3	25.68	25.68	15.4	0.05544
3/12/04	2000	9.04	766	0	1.669	290.4	30.78	32.37	0	0
3/12/04	2100	7.62	766	0	1.372	249.4	39.95	33	0	0
3/12/04	2200	6.476	767	0	1.123	254.2	45.67	37.82	0.006	0.00002
3/12/04	2300	5.519	768	0	1.051	298.2	46.93	47.08	0.01	0.00004
3/12/04	2400	3.116	768	0	0.695	253.6	44.24	55.37	0.005	0.00002
3/13/04	100	1.684	768	0	0.511	18.98	47.15	64.13	0.004	0.00002
3/13/04	200	0.788	768	0	0.916	30.13	18.69	65.41	0	0
3/13/04	300	2.549	768	0	2.753	28.92	14.67	47.53	0.001	0
3/13/04	400	2.63	768	0	3.145	45.12	11.71	49.76	0.006	0.00002
3/13/04	500	1.955	768	0	2.055	45.72	19.54	53.27	0.009	0.00003
3/13/04	600	1.338	769	0	1.599	37.45	14.42	56.41	0.002	0.00001
3/13/04	700	1.079	769	0	1.58	29.44	16.8	57.89	2.095	0.00754
3/13/04	800	1.272	770	0	2.348	40.84	12.78	55.78	71.7	0.25795
3/13/04	900	2.739	770	0	3.147	36.35	13.87	49.02	279	1.0045
3/13/04	1000	5.148	771	0	2.826	24.16	16.69	43.5	480.4	1.7294
3/13/04	1100	6.996	771	0	3.914	44.81	21.05	32.63	641.8	2.3105
3/13/04	1200	9.03	771	0	4.693	34.08	18.34	27.05	663.1	2.3872
3/13/04	1300	10.9	770	0	4.11	49.58	22.29	27.72	740	2.6654
3/13/04	1400	12.52	769	0	4.823	35.34	20.08	24.95	704	2.5355
3/13/04	1500	13.88	768	0	4.508	51.86	27.7	21.44	639.3	2.3014
3/13/04	1600	14.24	768	0	4.057	70.8	22.81	21.47	528.6	1.903
3/13/04	1700	13.98	767	0	3.239	65.23	22.99	20.97	182.8	0.65812
3/13/04	1800	13.75	767	0	2.838	68.77	20.35	20.34	106.2	0.38221
3/13/04	1900	13.11	768	0	1.503	31.88	23.18	25.51	13.96	0.05025
3/13/04	2000	11.27	768	0	0.807	269.8	41.75	34.7	0.001	0
3/13/04	2100	10.25	768	0	0.778	258.2	34.4	36.74	0	0
3/13/04	2200	9.77	769	0	0.591	270.9	27.58	44.06	0	0
3/13/04	2300	9.11	769	0	1.2	39.26	21	46.4	0	0
3/13/04	2400	9.26	768	0	1.491	4.372	80.3	31.07	0	0
3/14/04	100	10.19	766	0	1.497	277.3	76.7	44.9	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/14/04	200	8.78	768	0	0.416	344.9	43.77	50.48	0	0
3/14/04	300	7.78	768	0	0.601	25.95	30.67	56.46	0	0
3/14/04	400	6.856	768	0	0.655	345.7	63.93	60.5	0.001	0
3/14/04	500	6.463	768	0	0.513	308.2	52.08	63.07	0.002	0.00001
3/14/04	600	6.504	768	0	0.273	356.8	22.82	65.84	0.006	0.00002
3/14/04	700	6.273	768	0	0.441	3.961	30.16	67.15	3.907	0.01406
3/14/04	800	6.789	768	0	0.316	19.87	42.69	62.37	64.25	0.23132
3/14/04	900	10.13	768	0	0.545	324.3	68.97	39.55	237.7	0.85558
3/14/04	1000	13.45	768	0	2.749	230.3	19.26	33.33	448.1	1.6133
3/14/04	1100	16.09	768	0	4.147	217	20.57	30.48	506.8	1.8244
3/14/04	1200	17.51	768	0	5.888	225.4	17.54	31.58	585.8	2.1087
3/14/04	1300	18.38	767	0	5.873	230.4	18.74	35.95	636.3	2.2908
3/14/04	1400	18.86	766	0	5.516	229.5	16.1	37.92	352.6	1.2693
3/14/04	1500	18.71	766	0	4.831	218.8	18.07	36.99	207.3	0.74611
3/14/04	1600	18.44	765	0	4.244	228.4	15.46	47.6	117.6	0.42349
3/14/04	1700	17.37	766	0	2.511	224	15.82	44.68	68.54	0.24673
3/14/04	1800	16.4	766	0	2.414	257.9	30.33	62.18	29.28	0.10541
3/14/04	1900	15.19	766	0	1.785	264.5	26.54	64.02	6.008	0.02163
3/14/04	2000	14.68	766	0	0.948	243.9	31.23	68.39	0.002	0.00001
3/14/04	2100	14.26	766	0	1.062	274.8	30.33	70.5	0.004	0.00001
3/14/04	2200	13.74	766	0	0.792	257	68.6	73.4	0.003	0.00001
3/14/04	2300	13.37	766	0	0.883	235.1	34.33	71.6	0.006	0.00002
3/14/04	2400	13.11	766	0	1.042	247.6	13.47	74.1	0.005	0.00002
3/15/04	100	12.69	766	0	0.964	239	26.28	75.2	0.004	0.00001
3/15/04	200	12.41	766	0	1.218	298.7	84.3	78.5	0.005	0.00002
3/15/04	300	12.01	766	0.1	2.568	46.21	15.74	79.5	0.002	0.00001
3/15/04	400	10.32	767	0	2.457	40.05	14.32	83.9	0.001	0
3/15/04	500	9.65	766	0	3.128	35.94	13.58	78.9	0	0
3/15/04	600	9.47	767	0	2.483	41.96	16.63	70.9	0.001	0
3/15/04	700	9.36	767	0	2.692	28.78	14.61	75.8	0.711	0.00256
3/15/04	800	9.36	767	0	3.019	26.36	13.98	74.3	38.44	0.1384
3/15/04	900	9.94	767	0	4.057	30.6	13.5	66.47	202.4	0.7285
3/15/04	1000	10.98	767	0.1	4.032	18.39	17.54	65.22	405.5	1.4599
3/15/04	1100	11.95	767	0	3.337	28.22	20.12	65.35	436.7	1.5721
3/15/04	1200	13.12	766	0	2.871	32.51	24.19	63.62	340.1	1.2242
3/15/04	1300	13.57	766	0	2.584	23.75	16.58	63.15	220.6	0.79417
3/15/04	1400	13.81	765	0	1.56	59.99	55.59	72.4	112.5	0.40485
3/15/04	1500	12.66	764	0.2	1.104	132.5	54.53	81.7	105.9	0.38108
3/15/04	1600	12	764	0.1	1.386	6.99	33.19	81	113.3	0.40776
3/15/04	1700	12.03	763	0	1.461	18.51	21.98	84	69.12	0.24882
3/15/04	1800	11.15	763	0.6	1.327	9.24	18.48	92.5	14.37	0.05174
3/15/04	1900	10.65	763	1	1.125	10.34	21.2	95.2	1.369	0.00493
3/15/04	2000	10.58	763	0.8	1.224	10.48	29.49	96.2	0.001	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/15/04	2100	10.59	762	0.4	1.09	22.54	20.12	96.5	0.001	0
3/15/04	2200	10.56	762	0.4	1.279	20.55	26.73	96.8	0.001	0
3/15/04	2300	10.55	761	0.6	0.807	10.05	26.35	97	0.001	0
3/15/04	2400	10.49	761	0.5	0.889	10.61	29.9	97.2	0	0
3/16/04	100	10.55	760	0.3	0.754	311.1	60.43	97.2	0	0
3/16/04	200	10.63	760	1.1	0.798	204.9	94.2	97.4	0.001	0
3/16/04	300	10.83	759	0	0.984	236.3	52.75	97.3	0.001	0
3/16/04	400	10.62	758	0.2	0.667	239.7	45.47	97.7	0.001	0
3/16/04	500	10.51	757	1.9	1.843	254.2	44.85	97.6	0.001	0
3/16/04	600	10.59	757	0.7	1.999	193.6	17.45	97.2	0.001	0
3/16/04	700	10.89	757	0.1	1.966	182.8	28.16	96.8	1.227	0.00442
3/16/04	800	11.55	756	0	1.687	220.1	20.18	96.1	24.8	0.08926
3/16/04	900	12.53	756	0	2.263	206.8	22.15	94.1	76.8	0.2765
3/16/04	1000	13.26	756	0	3.061	221	16.85	90.3	112.9	0.40643
3/16/04	1100	14.48	756	0	4.012	241.9	15.24	76.1	289.3	1.0415
3/16/04	1200	16.38	756	0.1	5.941	248	16.17	59.4	530.9	1.9111
3/16/04	1300	16.74	756	0	5.652	247	23.16	56.32	533.2	1.9197
3/16/04	1400	17.16	756	0	6.173	261.3	23.08	38.49	659.1	2.3727
3/16/04	1500	16.95	756	0	5.82	269.4	23.01	34.28	623	2.2427
3/16/04	1600	16.39	756	0	5.082	278.5	26.34	40.33	391.4	1.4091
3/16/04	1700	15.7	756	0	2.933	291.8	26.38	42.3	174.8	0.62915
3/16/04	1800	14.95	757	0	2.665	299.6	31.84	44.65	136.1	0.4898
3/16/04	1900	13.43	757	0	1.937	306.6	34.22	51.36	15.8	0.05686
3/16/04	2000	11.95	758	0	2.049	288.9	31.46	58.71	0.002	0.00001
3/16/04	2100	10.74	759	0	1.245	318.9	52.27	60.65	0	0
3/16/04	2200	9.99	759	0	1.488	298.2	30.46	64.74	0	0
3/16/04	2300	8.84	759	0	0.997	296.5	38.98	70.5	0	0
3/16/04	2400	7.17	759	0	1.34	258	25.77	78.6	0.001	0
3/17/04	100	7.07	759	0	1.712	263.1	31.93	71	0.005	0.00002
3/17/04	200	6.265	759	0	1.239	256.5	20.86	79.3	0.009	0.00003
3/17/04	300	6.176	759	0	1.708	255.8	24.9	77.5	0.009	0.00003
3/17/04	400	5.802	759	0	1.121	271.6	44.48	74.4	0.013	0.00005
3/17/04	500	4.798	759	0	1.843	237	18.61	83.1	0.014	0.00005
3/17/04	600	5.242	759	0	1.96	237.8	20.69	78.3	0.012	0.00004
3/17/04	700	5.413	760	0	1.692	240.7	18.03	75.2	3.041	0.01095
3/17/04	800	5.492	760	0	2.024	226.6	14.43	78.2	50.4	0.18144
3/17/04	900	5.959	761	0	2.189	242.7	23.84	71.5	114.7	0.41282
3/17/04	1000	6.379	761	0	2.17	242.6	23.61	71	185.6	0.66826
3/17/04	1100	7.06	761	0	2.235	215.3	20.93	65.07	237.4	0.85478
3/17/04	1200	8.17	761	0	2.58	234.2	28.86	61.49	242	0.87137
3/17/04	1300	9.1	761	0	2.456	231.4	37.09	55.44	333.9	1.202
3/17/04	1400	10.58	761	0	1.965	220.5	39.01	52.83	425.6	1.5322
3/17/04	1500	12.23	760	0	3.505	251.5	26.65	38.47	503.3	1.8119

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/17/04	1600	13.03	760	0	3.941	262.5	24.08	35.73	518.1	1.8653
3/17/04	1700	13.37	760	0	3.627	251.5	26.76	38.84	372.1	1.3395
3/17/04	1800	13.39	760	0	3.003	240.5	18.77	37.77	154.2	0.55524
3/17/04	1900	12.19	760	0	1.574	220.8	13.69	45.58	12.44	0.04477
3/17/04	2000	10.9	760	0	1.135	234.2	12.97	51.4	0.004	0.00001
3/17/04	2100	9.39	761	0	0.721	267.6	27.86	58.79	0	0
3/17/04	2200	9.22	761	0	0.785	266.5	45.93	62.1	0	0
3/17/04	2300	8.6	762	0	1.084	256.8	37.5	66.94	0	0
3/17/04	2400	8.15	762	0	1.596	244.5	10.27	66.08	0	0
3/18/04	100	7.37	762	0	1.261	235.1	16.61	71.3	0	0
3/18/04	200	7.45	762	0	0.935	248.6	17.81	67.71	0	0
3/18/04	300	7.5	761	0.1	1.03	3.782	73.5	87.2	0	0
3/18/04	400	6.723	761	0.1	0.856	4.012	45.74	89.8	0	0
3/18/04	500	6.722	761	0.2	0.978	18.15	42.51	92.8	0	0
3/18/04	600	6.677	762	0.5	1.265	28.85	40.28	94.5	0	0
3/18/04	700	7.28	762	0	1.79	51.96	35.21	88.4	0.79	0.00284
3/18/04	800	7.75	763	0.9	2.177	88.5	20.95	92.8	5.532	0.01992
3/18/04	900	7.66	762	1.6	1.31	97.3	62.49	94.2	14.09	0.05074
3/18/04	1000	7.83	762	0.6	1.013	103.1	56.86	93.4	55.88	0.20118
3/18/04	1100	8.82	763	0.1	1.403	1.347	29.17	89.2	259.5	0.93405
3/18/04	1200	10.29	763	0	1.101	331	28.58	81.5	337.4	1.2147
3/18/04	1300	11.31	762	0	1.757	211.3	29.06	80.6	301.5	1.0855
3/18/04	1400	11.58	762	0.2	2.272	237.6	24.73	80.3	409.2	1.473
3/18/04	1500	12.7	761	0	2.511	232.2	17.55	77.3	302.6	1.0892
3/18/04	1600	14.5	761	0	3.765	206.3	17.26	62.78	352.1	1.2677
3/18/04	1700	15.78	761	0	4.081	224.4	15.81	59.41	176.6	0.63562
3/18/04	1800	16.28	761	0	3.679	219.4	16.36	60.34	151.8	0.5465
3/18/04	1900	15.34	762	0	2.125	213	13.34	69.23	17.37	0.06253
3/18/04	2000	14.26	762	0	2.027	215.1	35.2	75.3	0.014	0.00005
3/18/04	2100	13.23	763	0	1.439	223.8	21.02	78.6	0.006	0.00002
3/18/04	2200	12.81	763	0.2	1.851	268.7	65.91	87.9	0.009	0.00003
3/18/04	2300	12.02	763	0	0.955	247.2	48.96	92.8	0.007	0.00002
3/18/04	2400	11.43	764	0	0.9	259.8	49.84	91.5	0.007	0.00002
3/19/04	100	10.15	764	0	0.313	335.6	44.38	94.5	0.002	0.00001
3/19/04	200	9.35	765	0	0.992	259.1	16.88	95.2	0.001	0
3/19/04	300	8.52	765	0	0.956	307.7	58.13	93.3	0.001	0
3/19/04	400	7.06	765	0	0.645	26.82	28.04	95	0	0
3/19/04	500	6.37	766	0	0.322	20.73	18.47	95.6	0.002	0.00001
3/19/04	600	5.566	766	0	0.218	306.1	37.38	96	0.008	0.00003
3/19/04	700	5.064	767	0	0.623	14.08	34.69	96.1	5.192	0.01869
3/19/04	800	6.273	768	0	0.366	349.7	47.2	79.7	131.5	0.47332
3/19/04	900	9.85	768	0	3.339	32.4	14.24	55.99	350.4	1.2613
3/19/04	1000	11.33	769	0	3.063	11.17	21.19	44.65	538	1.937

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/19/04	1100	12.7	769	0	1.551	32.63	60.85	45.38	667.9	2.4043
3/19/04	1200	13.74	770	0	1.54	16.42	63.51	41.47	726	2.6133
3/19/04	1300	14.96	769	0	2.095	15.6	58.8	36.42	745	2.6832
3/19/04	1400	16.21	769	0	1.576	302.6	56.78	35.05	714	2.572
3/19/04	1500	17.14	769	0	1.79	105.4	90.4	37.92	645.9	2.3253
3/19/04	1600	17.51	769	0	2.437	106.3	36.79	29.84	527.1	1.8976
3/19/04	1700	17.65	768	0	2.706	129	27.74	25.04	374	1.3463
3/19/04	1800	17.78	768	0	2.608	135.5	17.38	25.3	184.4	0.66369
3/19/04	1900	16.74	768	0	1.124	130.4	74	35.16	21.62	0.07781
3/19/04	2000	13.37	768	0	0.466	314.6	70.3	45.75	0.002	0.00001
3/19/04	2100	11.5	768	0	0.632	13.18	38.06	56.95	0.001	0
3/19/04	2200	9.6	769	0	0.525	3.66	34.35	67.35	0	0
3/19/04	2300	8.23	769	0	0.857	25.02	20.55	72.3	0	0
3/19/04	2400	7.34	769	0	0.409	358.5	30.51	75.2	0	0
3/20/04	100	6.374	769	0	0.585	304.5	65.49	79.3	0.004	0.00001
3/20/04	200	5.777	769	0	0.705	335.7	65.28	83.2	0.009	0.00003
3/20/04	300	5.017	769	0	0.718	339.9	58.04	82.7	0.012	0.00004
3/20/04	400	4.623	768	0	0.985	30	14.72	85	0.017	0.00006
3/20/04	500	4.146	768	0	0.539	20.15	34.29	86.1	0.019	0.00007
3/20/04	600	4.108	768	0	0.463	334.3	57.56	87.3	0.02	0.00007
3/20/04	700	4.57	769	0	0.789	21	50.13	82.6	15.67	0.05641
3/20/04	800	6.074	769	0	0.849	353.3	47.37	76	62.3	0.22429
3/20/04	900	8.37	769	0	0.951	7.65	65.67	76.6	100.4	0.36132
3/20/04	1000	10.72	769	0	1.043	252	61.87	65.46	344.5	1.24
3/20/04	1100	14.76	769	0.1	2.59	225.4	21.75	47.72	581	2.0917
3/20/04	1200	17.09	768	0	3.603	222.7	19.02	47.04	655.1	2.3583
3/20/04	1300	20.17	767	0	4.802	233	17.98	44.27	593.3	2.1357
3/20/04	1400	22.19	766	0	6.304	222.9	16.58	42.3	655.5	2.3599
3/20/04	1500	23.31	765	0	6.364	218.3	16.77	42.86	513.9	1.8501
3/20/04	1600	23.31	764	0	5.286	215.9	17.65	41.66	327	1.1771
3/20/04	1700	22.99	763	0	4.489	214.1	15.18	44.87	113	0.40668
3/20/04	1800	18.83	763	1	3.014	305.9	67.49	85.6	5.3	0.01908
3/20/04	1900	15.22	765	2.3	1.851	307.1	61.93	92.8	0.318	0.00114
3/20/04	2000	14.79	765	0.1	1.91	197.7	36.55	91.3	0.001	0
3/20/04	2100	14.57	763	0	2.442	220	14.28	93.1	0.003	0.00001
3/20/04	2200	14.59	764	0	1.759	206.1	28.7	92.5	0.002	0.00001
3/20/04	2300	14.33	764	0.1	1.209	225.6	21.72	94	0.003	0.00001
3/20/04	2400	14.44	764	0.1	1.685	220.8	28.64	83.1	0.002	0.00001
3/21/04	100	14.66	764	0	3.066	279.9	24.76	84.1	0.01	0.00003
3/21/04	200	14.28	763	0	2.902	263.3	23.2	77	0.012	0.00004
3/21/04	300	13.96	763	0	3.351	290	46.77	54.73	0.017	0.00006
3/21/04	400	12.25	764	0	3.224	316.5	30.33	42.01	0.01	0.00004
3/21/04	500	10.73	764	0	2.161	282.6	29.54	44.45	0.005	0.00002



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/21/04	600	9.47	765	0	1.83	271.3	27.33	44.9	0	0
3/21/04	700	7.84	765	0	1.967	274.9	34.39	45.4	7.04	0.02536
3/21/04	800	7.05	765	0	2.742	297.3	27.08	45.33	141.8	0.51059
3/21/04	900	6.272	766	0	3.276	310.4	34.84	49.34	367.3	1.3223
3/21/04	1000	6.18	767	0	3.028	320.6	36.17	52.35	566.8	2.0405
3/21/04	1100	6.247	767	0	3.155	335.7	33.6	48.07	492.7	1.7738
3/21/04	1200	6.602	767	0	3.798	335.7	36.95	50	740	2.6655
3/21/04	1300	7.09	767	0	4.072	354.5	21.65	47.12	668.7	2.4073
3/21/04	1400	7.32	767	0	3.852	331.3	36.09	49.72	788	2.8375
3/21/04	1500	7.21	767	0	4.197	323.2	32.95	40.98	659.1	2.3727
3/21/04	1600	7.16	767	0	4.337	340.9	27.47	43.55	543.3	1.956
3/21/04	1700	5.843	767	0	4.352	347.8	18.97	45.36	142	0.51138
3/21/04	1800	4.885	767	0	4.353	351.5	19.04	47.47	92.5	0.33306
3/21/04	1900	3.963	768	0	3.474	357.4	20.93	46.98	16.29	0.05866
3/21/04	2000	3.458	768	0	1.656	339.3	23.29	49.65	0.03	0.00011
3/21/04	2100	3.393	768	0	2.169	5.315	28.56	50.12	0.012	0.00004
3/21/04	2200	2.849	768	0	2.446	29.61	16.14	56.37	0.015	0.00005
3/21/04	2300	2.133	768	0	2.549	28.7	12.86	53.4	0.01	0.00004
3/21/04	2400	1.361	768	0	1.787	37.69	24.69	61.75	0.006	0.00002
3/22/04	100	0.846	768	0	1.11	30.78	25.07	63.1	0.001	0
3/22/04	200	0.817	768	0	1.401	43.07	11.92	64.06	0.002	0.00001
3/22/04	300	0.692	768	0	2.057	34.21	13.93	63.29	0.002	0.00001
3/22/04	400	0.402	768	0	1.898	42.42	12.74	66.3	0.001	0
3/22/04	500	-0.191	768	0	1.598	48.16	14.32	72.2	0.001	0
3/22/04	600	-0.573	768	0	1.43	52.43	15.22	68.85	0	0
3/22/04	700	-0.06	769	0	1.847	32.09	16.4	65.27	6.967	0.02508
3/22/04	800	0.213	770	0	2.167	21.19	16.66	61.46	65.45	0.23561
3/22/04	900	0.431	770	0	2.256	0.941	27.97	53.83	138.8	0.49961
3/22/04	1000	1.23	771	0	2.498	322.6	25.4	41.44	437.4	1.5746
3/22/04	1100	2.547	771	0	2.648	356.6	44.65	33.77	692.1	2.4917
3/22/04	1200	3.6	771	0	2.783	359.6	54.37	34.88	768	2.7639
3/22/04	1300	4.608	771	0	3.201	10.98	37.39	29.5	780	2.809
3/22/04	1400	5.767	770	0	3.03	355.3	64.2	26.49	745	2.681
3/22/04	1500	6.676	770	0	2.471	17.89	56.7	23.55	668.5	2.4065
3/22/04	1600	7.24	769	0	2.48	26.53	64.64	22.04	557.4	2.0065
3/22/04	1700	7.58	769	0	2.472	2.385	65.49	23.71	398	1.4327
3/22/04	1800	7.66	769	0	1.955	355.1	41.14	19.77	202.7	0.72962
3/22/04	1900	6.699	769	0	1.689	327.5	19.68	25.49	28.19	0.10149
3/22/04	2000	4.832	770	0	1.235	17.79	28.91	27.03	0.022	0.00008
3/22/04	2100	3.888	770	0	1.554	35.12	16.77	32.85	0.008	0.00003
3/22/04	2200	2.31	770	0	0.76	26.9	38.51	40.8	0.004	0.00001
3/22/04	2300	0.807	770	0	0.423	319.5	30.81	50.07	0.001	0
3/22/04	2400	-0.382	771	0	0.397	341.8	44.11	60.2	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/23/04	100	-1.139	771	0	0.707	19.82	27.47	64.18	0	0
3/23/04	200	-1.847	771	0	0.437	348.6	29.82	69.26	0	0
3/23/04	300	-2.433	771	0	0.688	20.69	26.35	74	0	0
3/23/04	400	-2.929	771	0	0.574	8.08	26.95	75.8	0	0
3/23/04	500	-3.265	771	0	0.829	23.46	23.88	77.8	0.001	0
3/23/04	600	-3.424	771	0	0.824	12.67	26.32	79.5	0	0
3/23/04	700	-3.471	772	0	0.613	349.1	33.65	77.7	7.52	0.02708
3/23/04	800	-1.682	773	0	0.508	53.11	41.24	55.06	153.8	0.55359
3/23/04	900	2.044	773	0	0.681	76.4	74.7	45.41	369.5	1.3301
3/23/04	1000	4.174	773	0	1.112	141.1	96.6	41.62	549.8	1.9792
3/23/04	1100	6.018	774	0	2.036	241	32.94	35.21	664.6	2.3926
3/23/04	1200	7.85	773	0	3.51	238.5	22.9	29.26	724	2.605
3/23/04	1300	9.49	773	0	2.769	227.1	32.21	24.78	739	2.6607
3/23/04	1400	11.13	772	0	3.024	224.9	53.04	22.14	708	2.5496
3/23/04	1500	12.3	771	0	2.898	226.9	44.06	17.43	625.1	2.2504
3/23/04	1600	13.21	771	0	2.783	241	34.37	20.77	501.7	1.8062
3/23/04	1700	13.8	770	0	3.122	231.1	22.83	21.24	334.4	1.204
3/23/04	1800	13.88	770	0	2.489	222.2	18.31	20.7	148.9	0.53598
3/23/04	1900	13.1	770	0	1.449	223.8	20.08	26.45	30.66	0.11037
3/23/04	2000	10.43	770	0	1.036	238.1	27.63	36.51	0.011	0.00004
3/23/04	2100	9.41	770	0	0.722	307.5	46.77	41.16	0	0
3/23/04	2200	8.33	771	0	0.527	291.3	32.64	50.41	0	0
3/23/04	2300	7.07	771	0	0.864	276.2	48.82	54.58	0	0
3/23/04	2400	7.28	771	0	1.692	240.3	8.73	46.93	0.002	0.00001
3/24/04	100	8.98	771	0	1.565	218.6	20.65	43.03	0.001	0
3/24/04	200	8.35	771	0	1.406	236.1	9.99	55.45	0	0
3/24/04	300	8.04	771	0	0.63	284.4	68.17	50.74	0	0
3/24/04	400	7.07	771	0	0.533	2.176	34.69	62.74	0.001	0
3/24/04	500	6.047	771	0	1.087	247.1	22.96	62.58	0.005	0.00002
3/24/04	600	5.059	771	0	1.133	241.7	37.67	63.48	0.005	0.00002
3/24/04	700	6.072	772	0	0.48	265.3	35.16	61.14	5.303	0.01909
3/24/04	800	6.613	772	0	0.871	246.7	17.35	54.42	70.9	0.25533
3/24/04	900	9.2	773	0	0.91	215.7	21.47	35.24	239.1	0.86091
3/24/04	1000	11.79	773	0	2.863	229.3	19.63	30.69	546.6	1.9677
3/24/04	1100	13.34	773	0	2.866	231.9	25.13	29.25	553	1.991
3/24/04	1200	15.33	772	0	3.131	225	27.65	27.41	634.7	2.2849
3/24/04	1300	16.37	772	0	3.647	229	24.9	27.11	665.3	2.395
3/24/04	1400	17.64	771	0	3.623	220.5	29.31	23.23	618.5	2.2266
3/24/04	1500	18.9	770	0	3.758	237	23.47	25.07	636.2	2.2902
3/24/04	1600	19.9	770	0	3.26	226.6	26.76	22.57	503	1.8109
3/24/04	1700	20.16	769	0	3.075	229.4	18.61	25.04	268.2	0.96562
3/24/04	1800	19.73	769	0	1.615	220.5	12.74	29.24	90.2	0.32473
3/24/04	1900	18.84	769	0	1.677	217.9	14.8	29.28	20.21	0.07274

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/24/04	2000	17.3	770	0	1.865	213.5	14.56	29.12	0.001	0
3/24/04	2100	16.45	770	0	2.87	224.4	12.74	32.19	0.002	0.00001
3/24/04	2200	16.25	771	0	2.787	215.3	12.24	29.49	0.002	0.00001
3/24/04	2300	15.07	771	0	1.705	225.2	10.45	32.89	0.006	0.00002
3/24/04	2400	14.09	771	0	1.223	215.2	15.54	39	0.003	0.00001
3/25/04	100	12.53	771	0	0.562	228.4	23.94	44.72	0.003	0.00001
3/25/04	200	11.21	771	0	0.306	318.6	26.18	53.88	0.001	0
3/25/04	300	9.81	771	0	0.293	337.6	33.48	59.93	0	0
3/25/04	400	9.1	771	0	0.425	9.66	23.51	61.1	0	0
3/25/04	500	8.63	772	0	0.286	310.6	29.71	64.17	0	0
3/25/04	600	7.81	772	0	0.28	326.3	38.41	66.68	0.001	0
3/25/04	700	7.4	773	0	0.684	279	25.42	66.51	9.55	0.03438
3/25/04	800	7.6	773	0	1.005	245.6	18.94	64.44	97.3	0.35019
3/25/04	900	12.26	774	0	1.251	224.2	13.96	39.78	331.6	1.1939
3/25/04	1000	15.74	774	0	3.367	228.6	17.79	40.84	532	1.9153
3/25/04	1100	17.58	774	0	3.588	237	21.06	44.47	651.9	2.3467
3/25/04	1200	19.02	774	0	4.009	237.8	23.78	46.1	710	2.5568
3/25/04	1300	20.04	773	0	4.206	238.9	24.22	40.93	724	2.6078
3/25/04	1400	20.8	773	0	3.652	234.8	23.99	39.79	688.4	2.4782
3/25/04	1500	21.58	772	0	3.017	211.9	32.39	35.65	604.8	2.1771
3/25/04	1600	22.35	771	0	3.136	227.7	29.59	38.99	493.8	1.7776
3/25/04	1700	22.66	771	0	3.414	229.9	21.53	38.49	359.3	1.2934
3/25/04	1800	22.59	770	0	3.416	234.8	18.25	39.16	172.4	0.62059
3/25/04	1900	21.18	771	0	1.694	223.3	11.84	46.1	18.13	0.06528
3/25/04	2000	18.91	771	0	1.337	247.9	9.07	55.86	0.009	0.00003
3/25/04	2100	16.44	771	0	1.012	265.6	24.36	63.98	0	0
3/25/04	2200	14.94	771	0	1.02	256	18.23	66.82	0.001	0
3/25/04	2300	14.8	771	0	1.074	240.3	20.61	59.84	0.005	0.00002
3/25/04	2400	14	771	0	0.764	253.6	28.85	66.52	0.004	0.00002
3/26/04	100	12.6	771	0	0.855	269.4	23.97	73.4	0.002	0.00001
3/26/04	200	11.66	771	0	0.904	265.6	16.89	77.1	0.001	0
3/26/04	300	11.33	771	0	0.309	331.3	41.25	77.1	0.001	0
3/26/04	400	11.58	771	0	0.248	323.4	29.31	79.2	0.001	0
3/26/04	500	11.23	771	0	0.178	261.4	12.2	77.5	0.002	0.00001
3/26/04	600	11.18	772	0	0.723	260	19.05	81.1	0.001	0
3/26/04	700	10.73	772	0	0.719	269.8	23.02	82.1	11.79	0.04244
3/26/04	800	12.52	772	0	0.074	3.321	8.98	70.3	131.5	0.47326
3/26/04	900	16.24	773	0	1.963	217.7	19.07	61.21	350.4	1.2616
3/26/04	1000	18.15	772	0	3.77	225.2	20.37	59.83	539.4	1.9417
3/26/04	1100	19.52	772	0	3.258	227.9	23.9	50.64	638.6	2.2991
3/26/04	1200	20.97	772	0	4.168	212.1	24.99	50.34	720	2.5931
3/26/04	1300	21.72	771	0	3.902	229.1	21.75	45.94	701	2.5223
3/26/04	1400	22.64	771	0	4.147	224.8	25.52	42.5	690.5	2.4857

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/26/04	1500	23.24	770	0	3.882	234.5	23.28	42.3	578.1	2.0813
3/26/04	1600	23.78	769	0	3.845	228.7	24.68	37.16	465.4	1.6755
3/26/04	1700	24.34	769	0	3.264	228.9	23.28	38.56	355	1.2779
3/26/04	1800	24.12	769	0	3.253	246.5	28.38	38.96	173.2	0.62347
3/26/04	1900	22.52	769	0	2.237	277.6	15.8	46.17	18.08	0.06511
3/26/04	2000	20.07	769	0	0.623	263.1	16.81	53.35	0.012	0.00004
3/26/04	2100	17.81	769	0	0.623	262.5	25.17	63.28	0	0
3/26/04	2200	16.15	769	0	1.065	243	14.34	69.36	0	0
3/26/04	2300	15.27	769	0	1.079	245.9	22.1	70.5	0.004	0.00001
3/26/04	2400	14.92	769	0	1.274	248.2	24.72	71.4	0.004	0.00001
3/27/04	100	14.49	769	0	1.057	255.2	21.77	73.1	0.007	0.00002
3/27/04	200	13.54	769	0	0.326	297.1	38.65	77.9	0.001	0
3/27/04	300	12.29	769	0	0.269	320.2	34.02	82	0.001	0
3/27/04	400	11.49	769	0	0.294	350.5	27.83	84.3	0.001	0
3/27/04	500	10.7	769	0	0.25	288.2	26.99	86.5	0	0
3/27/04	600	10.15	769	0	0.419	275.5	12.89	88.2	0	0
3/27/04	700	9.84	769	0	0.247	332	27.19	88.1	7.73	0.02781
3/27/04	800	11.86	770	0	0.297	245.5	57.91	75.3	157	0.56536
3/27/04	900	15.28	770	0	1.028	241.2	13.73	64.49	268	0.96476
3/27/04	1000	17.72	770	0	2.372	230.1	15.08	59.23	442.2	1.592
3/27/04	1100	19.66	770	0	3.126	232.9	14.92	52.38	394	1.4186
3/27/04	1200	21.85	769	0	3.417	213.8	28.5	44.27	711	2.558
3/27/04	1300	22.96	769	0	3.1	245.7	44.73	41.3	714	2.569
3/27/04	1400	23.59	768	0	1.902	206.9	54.34	40.06	394.2	1.4191
3/27/04	1500	24.34	767	0	2.695	230.7	41.55	39.05	537.5	1.9349
3/27/04	1600	24.76	766	0	3.094	218.7	38.44	35.68	562	2.0233
3/27/04	1700	24.91	766	0	2.842	222.6	32.15	36.28	352.7	1.2696
3/27/04	1800	24.53	766	0	2.296	208.1	25.44	38.69	142.4	0.5127
3/27/04	1900	23.29	766	0	1.764	215.5	17.87	44.2	29.38	0.10578
3/27/04	2000	20.62	766	0	0.525	251.4	25.79	53.38	0.022	0.00008
3/27/04	2100	18.46	766	0	0.735	267.5	25.45	61.71	0	0
3/27/04	2200	16.85	766	0	0.417	318.9	30.21	66.72	0	0
3/27/04	2300	15.54	766	0	0.77	272.8	23.57	72	0.002	0.00001
3/27/04	2400	14.35	766	0	0.69	20.17	21.99	76	0.004	0.00001
3/28/04	100	13.59	766	0	0.372	310.6	40.8	79.2	0.006	0.00002
3/28/04	200	12.63	766	0	0.385	337.6	45.56	83.6	0.009	0.00003
3/28/04	300	12.12	766	0	0.488	14.51	19	84.2	0.007	0.00003
3/28/04	400	11.7	766	0	0.459	4.707	11.14	86.6	0.003	0.00001
3/28/04	500	11.3	766	0	0.314	17.04	23.72	87.6	0.005	0.00002
3/28/04	600	10.92	766	0	0.192	319.5	23.62	88.9	0.003	0.00001
3/28/04	700	10.47	767	0	0.649	262.6	14.51	90.6	17.28	0.06222
3/28/04	800	11.98	767	0	0.344	294.2	35.37	82.9	108.8	0.39178
3/28/04	900	15	767	0	0.397	252.7	51.73	71.1	244.3	0.87941

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/28/04	1000	18.76	767	0	0.496	121.3	57.77	57.66	410.5	1.4776
3/28/04	1100	20.61	767	0	1.418	110.3	28.06	49.27	613.1	2.2073
3/28/04	1200	22.94	767	0	1.243	119	65.56	44.57	744	2.6769
3/28/04	1300	24.16	766	0	1.703	118.1	52.59	39.61	723	2.6041
3/28/04	1400	24.75	765	0	1.875	229	81.6	36.08	681	2.4515
3/28/04	1500	25.67	765	0	2.344	203.3	56.42	34.64	665.7	2.3966
3/28/04	1600	26.06	764	0	2.704	235.9	25.84	33.47	537.9	1.9363
3/28/04	1700	26.1	764	0	2.297	222.7	27.47	35.45	371.4	1.3369
3/28/04	1800	25.93	764	0	1.706	236	26.25	33.65	183.6	0.66095
3/28/04	1900	24.69	764	0	1.31	189	31.89	45.87	31.52	0.11346
3/28/04	2000	21.22	763	0	0.824	199.5	51.62	54.45	0.015	0.00005
3/28/04	2100	19.3	764	0	0.806	256.9	31.8	60.27	0	0
3/28/04	2200	18.13	764	0	0.522	333.3	57.8	65.69	0	0
3/28/04	2300	16.76	764	0	0.837	267.5	32.98	68.86	0	0
3/28/04	2400	16.55	764	0	0.44	313.1	44.37	71.1	0	0
3/29/04	100	15.57	764	0	0.949	257	14.61	76.3	0	0
3/29/04	200	15.18	764	0	0.822	262.7	40.7	71.8	0	0
3/29/04	300	15.73	764	0	0.845	219.2	38.94	73.5	0	0
3/29/04	400	16.04	764	0	0.696	210.7	47.54	75.4	0	0
3/29/04	500	16.15	764	0	1.542	229	19.92	78	0	0
3/29/04	600	14.45	765	0	0.54	313.6	55.85	82.6	0.005	0.00002
3/29/04	700	13.63	765	0	0.484	2.574	25.99	83.9	14.32	0.05155
3/29/04	800	14.8	765	0	0.269	327	30.93	73.5	119.5	0.43008
3/29/04	900	18.42	766	0	1.633	252.4	23.82	62.44	338.9	1.2201
3/29/04	1000	19.84	765	0	3.026	219.7	20.89	56.25	479.8	1.7274
3/29/04	1100	21.05	766	0	3.966	209.8	20.94	50.58	635.5	2.2878
3/29/04	1200	21.92	765	0	4.622	226.3	19.88	50.61	708	2.5505
3/29/04	1300	22.81	765	0	4.447	218.4	19.43	47.64	666	2.3977
3/29/04	1400	23.34	764	0	5.016	233.2	17.31	50.58	619.3	2.2295
3/29/04	1500	24	763	0	4.086	219.1	26.61	42.2	583.5	2.1005
3/29/04	1600	24.53	763	0	4.576	217.5	25.5	42.13	512.5	1.8451
3/29/04	1700	24.47	762	0	4.038	224	21.3	41.03	341.5	1.2295
3/29/04	1800	23.53	762	0	3.507	226.7	16.65	46.04	79.3	0.28566
3/29/04	1900	22.07	762	0	2.539	226.2	14.11	51.44	12.75	0.04591
3/29/04	2000	20.77	762	0	1.518	218.3	13.49	55.05	0.016	0.00006
3/29/04	2100	20.35	762	0	1.442	214.1	17.87	58.55	0	0
3/29/04	2200	19.65	762	0	2.319	274	17.89	65.5	0	0
3/29/04	2300	18.32	762	0	2.772	282.8	14.34	76.8	0	0
3/29/04	2400	17.18	762	0	2.335	272.3	14.93	82.1	0	0
3/30/04	100	16.16	761	0.2	2.67	256.4	17.9	91	0	0
3/30/04	200	14.73	761	0.2	4.198	267.3	15.92	91.9	0	0
3/30/04	300	12.38	761	0.5	4.293	270.4	15.21	92.2	0.001	0
3/30/04	400	11.68	762	0.9	3.856	277.7	19.12	93.4	0.005	0.00002

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/30/04	500	11.44	761	0.8	2.27	266.4	33.37	95.2	0.008	0.00003
3/30/04	600	11.02	762	0.7	1.928	244.9	25.94	95.1	0.012	0.00004
3/30/04	700	10.85	762	0.4	2.075	215.6	43.03	92.9	6.23	0.02243
3/30/04	800	10.77	762	0	1.836	195.8	33.41	93	72	0.25916
3/30/04	900	11.94	762	0	3.254	248.5	17.3	83.9	298.9	1.0762
3/30/04	1000	12.7	762	0	4.188	236.5	14.72	74.6	429.9	1.5475
3/30/04	1100	14.01	762	0	3.188	207.7	21.23	68.56	684.2	2.4631
3/30/04	1200	15.08	761	0	3.475	224.6	21.31	53.89	574.9	2.0697
3/30/04	1300	16.23	761	0	4.183	220.3	18.89	47.07	579.2	2.0853
3/30/04	1400	16.51	760	0	4.855	219.2	16.93	39.03	390.3	1.405
3/30/04	1500	17.57	760	0	5.596	229.8	22.52	33.35	577.9	2.0806
3/30/04	1600	17.64	759	0	5.367	235.4	23.15	32.48	457.7	1.6477
3/30/04	1700	17.12	759	0	4.443	269.5	23.84	37.73	259.6	0.93454
3/30/04	1800	14.98	759	0	2.518	251.2	38.58	48.15	62.97	0.22669
3/30/04	1900	14.24	759	0	1.879	255	39.95	48.19	13.31	0.04791
3/30/04	2000	11.98	760	0	2.94	179.3	29.52	69.66	0.006	0.00002
3/30/04	2100	11.45	760	0.1	2.373	208.8	35.76	62.19	0.004	0.00002
3/30/04	2200	11.17	760	0	1.68	217.5	24.44	69.94	0.01	0.00003
3/30/04	2300	10.65	760	0	1.726	237.1	22.34	72.8	0.011	0.00004
3/30/04	2400	10.16	760	0.1	2.12	252.4	31.61	86.1	0.01	0.00004
3/31/04	100	9.07	759	0.1	1.75	221.2	14.15	87.5	0.01	0.00003
3/31/04	200	8.53	759	0.2	2.323	232.2	14.54	87.5	0.007	0.00003
3/31/04	300	8.15	759	0.1	1.965	242.1	14.33	88.8	0.006	0.00002
3/31/04	400	7.97	758	0.1	1.429	248.2	19.56	89.3	0.005	0.00002
3/31/04	500	7.73	758	0	0.989	217.2	17.51	89.8	0.005	0.00002
3/31/04	600	7.66	758	0	1.114	221.1	15.1	87.8	0.001	0
3/31/04	700	7.86	758	0	1.96	252.1	18.26	81.8	9.98	0.03593
3/31/04	800	8.01	758	0	2.114	283.8	25.65	80	76	0.27369
3/31/04	900	8.31	758	0	1.884	298.4	32.96	78.3	99.4	0.3579
3/31/04	1000	8.5	758	0	2.121	317.9	42.15	77.7	64.1	0.23076
3/31/04	1100	7.11	758	0.6	2.527	296	38.34	90.7	74.5	0.26811
3/31/04	1200	6.843	759	0.5	2.756	273.4	36.16	82.6	113.7	0.4095
3/31/04	1300	7.1	759	0	3.098	288.8	37.84	70	370.4	1.3335
3/31/04	1400	9.02	758	0	2.53	333.5	34.35	54.58	465.5	1.6758
3/31/04	1500	9.71	758	0	2.027	330.8	42.53	55.24	266.7	0.96012
3/31/04	1600	9.88	757	0	2.564	299.4	42.07	51.17	247.9	0.89241
3/31/04	1700	9.88	757	0	2.664	327.1	37.79	57.65	141.5	0.50948
3/31/04	1800	9.74	757	0	1.659	299.8	34.29	47.03	70.2	0.25261
3/31/04	1900	9.6	757	0	2.778	282.8	28.34	47.77	24.46	0.08806
3/31/04	2000	8.84	758	0	2.977	275.9	25.35	51.01	0.065	0.00023
3/31/04	2100	8.25	758	0	2.789	267	25.81	54.52	0.006	0.00002
3/31/04	2200	7.79	759	0	2.458	276.6	27.67	56.92	0.004	0.00002
3/31/04	2300	7.2	759	0	2.571	282.6	26.71	60.5	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
3/31/04	2400	6.976	759	0	2.187	286.8	27.15	66.68	0	0
4/1/04	100	6.58	758	0	2.715	279.1	27.08	76.2	0	0
4/1/04	200	6.281	758	0	1.965	250.2	23.37	80.1	0	0
4/1/04	300	6.133	758	0	1.624	270.7	22.98	80.4	0.001	0
4/1/04	400	6.266	757	0	2.255	255.8	11.93	80.2	0	0
4/1/04	500	6	757	0	1.018	278.9	34.19	84.6	0	0
4/1/04	600	5.959	758	0	0.778	353.5	61.95	79.5	0	0
4/1/04	700	6.365	758	0	1.791	338.4	41.21	71.8	3.354	0.01208
4/1/04	800	6.688	759	0	1.26	319.8	45.03	69.85	21.69	0.07809
4/1/04	900	7.16	759	0	1.172	285.5	40.62	66.51	85	0.30612
4/1/04	1000	8.55	759	0	3.191	336.9	39.33	52.51	432.2	1.556
4/1/04	1100	10.15	759	0	4.148	352.1	29.54	50.66	666.2	2.3983
4/1/04	1200	11.17	759	0	3.755	328.6	40.07	44.51	648	2.3328
4/1/04	1300	11.95	759	0	3.531	327.7	36.22	34.8	477.1	1.7177
4/1/04	1400	11.98	758	0	4.032	336.5	36.85	38.14	270.9	0.97529
4/1/04	1500	11.69	758	0	3.49	292.4	28.49	42.38	236.6	0.85159
4/1/04	1600	11.67	758	0	4.014	299.1	31.51	40.24	304.9	1.0977
4/1/04	1700	11.76	758	0	3.565	293.3	33.07	47.19	224	0.80642
4/1/04	1800	10.91	758	0	2.811	325.1	40.15	46.32	77.5	0.27915
4/1/04	1900	10.3	758	0	2.491	282.8	26.53	52.84	31.66	0.11397
4/1/04	2000	9.61	758	0	2.233	267.3	25.53	53.31	0.097	0.00035
4/1/04	2100	8.69	759	0	1.735	244.2	19.86	58.99	0.01	0.00004
4/1/04	2200	7.64	759	0	1.666	238.5	12.58	61.6	0.001	0
4/1/04	2300	6.597	759	0	1.041	245.8	22.54	68.29	0	0
4/1/04	2400	5.942	759	0	1.549	242.7	12.41	67.72	0.007	0.00003
4/2/04	100	5.641	759	0	1.367	242.2	15.93	70.6	0.016	0.00006
4/2/04	200	5.504	759	0	1.822	240.8	11.03	70.6	0.022	0.00008
4/2/04	300	5.367	758	0	2.442	250.4	15.43	66.86	0.023	0.00008
4/2/04	400	5.08	758	0	2.155	246.7	14.71	70.4	0.018	0.00006
4/2/04	500	4.55	758	0	3.074	232.7	13.57	71	0.02	0.00007
4/2/04	600	4.437	758	0	2.102	240.9	19.4	74.5	0.039	0.00014
4/2/04	700	4.521	758	0	3.156	242.3	21.02	72.6	12.4	0.04464
4/2/04	800	4.815	758	0	5.307	266.2	12.08	71.5	83.7	0.30123
4/2/04	900	5.259	759	0	4.471	267.1	14.76	69.62	118.9	0.4281
4/2/04	1000	6.061	759	0	3.318	271	20.26	64.61	214.6	0.77256
4/2/04	1100	7.57	759	0	3.511	276.5	21.39	62.84	322.4	1.1606
4/2/04	1200	8.08	759	0	3.802	273.7	26.32	66.11	244.5	0.88035
4/2/04	1300	8	759	0	3.296	283.8	25.7	66.34	172.5	0.62089
4/2/04	1400	8.4	759	0	3.398	314.7	37.13	67.08	156.6	0.56378
4/2/04	1500	8.07	759	0	3.217	292.7	30.59	67.21	98.6	0.35506
4/2/04	1600	8.39	759	0	2.09	316	42.15	67.11	106.8	0.38446
4/2/04	1700	8.41	759	0	2.356	4.134	24.06	71.3	55.41	0.19948
4/2/04	1800	8.09	759	0	1.794	29.16	40.69	75	45.54	0.16395

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/2/04	1900	7.94	760	0	1.694	104.5	26.34	73.8	11.5	0.0414
4/2/04	2000	7.82	760	0	1.638	117.8	23.02	74.9	0.046	0.00017
4/2/04	2100	7.62	760	0	1.962	140.2	22.15	78.6	0	0
4/2/04	2200	7.34	760	0	2.08	123	15.21	82.1	0.001	0
4/2/04	2300	7.17	760	0	1.329	157.2	29.7	83.2	0	0
4/2/04	2400	7.02	760	0	1.043	221.4	41.65	83.2	0.001	0
4/3/04	100	6.963	760	0	0.846	249	39.68	85.1	0.003	0.00001
4/3/04	200	6.865	759	0	0.903	219	12.96	85.3	0.003	0.00001
4/3/04	300	6.773	759	0	1.321	215.4	11.77	86.8	0.007	0.00002
4/3/04	400	6.787	759	0	1.376	209.6	13.12	83.1	0.002	0.00001
4/3/04	500	6.803	758	0	1.361	227.2	19.22	82.9	0.002	0.00001
4/3/04	600	6.155	758	0	1.086	180.4	23.65	85.8	0.034	0.00012
4/3/04	700	5.277	758	0	1.048	240.7	17.07	90.6	17.43	0.06276
4/3/04	800	6.596	759	0	1.53	234.4	11.63	78.4	209	0.75226
4/3/04	900	9.47	759	0	1.626	238.9	38.34	62.43	411.7	1.4821
4/3/04	1000	11.83	759	0	1.882	243.2	46.72	54.57	586.7	2.1121
4/3/04	1100	13.67	759	0	2.918	259.8	40.85	47.99	694.3	2.4996
4/3/04	1200	14.7	759	0	3.27	254.8	29.58	46.98	757	2.7257
4/3/04	1300	16.17	759	0	3.21	258.5	39.56	42.6	756	2.7202
4/3/04	1400	17.38	758	0	3.563	258	35.68	37.82	696.2	2.5062
4/3/04	1500	18.32	757	0	3.664	267.4	36.29	34.05	631.9	2.2748
4/3/04	1600	18.52	756	0	3.302	300	35.19	34.35	401.1	1.4439
4/3/04	1700	18.98	756	0	3.078	308.9	35.2	32.15	375	1.3501
4/3/04	1800	18.33	756	0	3.621	283.9	34.23	32.08	208.8	0.75177
4/3/04	1900	17.23	756	0	3.166	276.6	26.74	35.69	39.82	0.14337
4/3/04	2000	15.89	757	0	2.762	256.6	18.48	40.31	0.091	0.00033
4/3/04	2100	14.67	757	0	2.56	250.4	13.67	42.54	0.002	0.00001
4/3/04	2200	13.72	758	0	2.134	244.8	16.37	42.98	0.004	0.00001
4/3/04	2300	12.44	758	0	1.544	233.5	13.85	51.87	0.007	0.00002
4/3/04	2400	10.1	758	0	1.412	250.8	10.79	60.83	0.002	0.00001
4/4/04	100	8.09	758	0	1.842	240.3	12.64	70.8	0	0
4/4/04	200	8.74	757	0	2.26	241.7	15.18	44.9	0	0
4/4/04	300	10.54	757	0	1.791	251.6	16.94	50.61	0	0
4/4/04	400	10	757	0	2.212	359.7	61.31	46.6	0	0
4/4/04	500	8.56	758	0	4.095	23.72	16.46	35.48	0	0
4/4/04	600	7.2	759	0	2.961	11.81	23.23	40.72	0.056	0.0002
4/4/04	700	6.294	759	0	1.783	6.228	28.97	36.59	29.03	0.1045
4/4/04	800	6.886	760	0	2.593	329.4	27.44	34.01	231.5	0.83325
4/4/04	900	7.22	760	0	3.5	0.398	26.03	37.78	434.9	1.5656
4/4/04	1000	7.8	761	0	3.297	345.8	33.17	37.31	619.3	2.2296
4/4/04	1100	8.53	761	0	3.308	349.2	31.42	37.97	748	2.6919
4/4/04	1200	9.88	761	0	3.454	1.445	25.56	33.76	817	2.9416
4/4/04	1300	11.1	761	0	4.003	352.8	33.28	30.82	839	3.019



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/4/04	1400	12.1	761	0	3.901	349.2	38.92	25.55	800	2.8783
4/4/04	1500	12.78	760	0	3.771	2.307	32.3	25.85	737	2.653
4/4/04	1600	13.07	760	0	4.076	352.1	27.77	26.21	609	2.1923
4/4/04	1700	12.87	760	0	3.832	355.4	28.99	27.58	430.8	1.5509
4/4/04	1800	12.28	760	0	3.282	353.6	24.39	28.72	227.4	0.81881
4/4/04	1900	11	760	0	2.798	353.5	21.64	33.86	44.9	0.16164
4/4/04	2000	9.49	761	0	1.619	14.64	25.82	38.95	0.164	0.00059
4/4/04	2100	7.95	762	0	1.209	350.9	19.44	46.87	0.001	0
4/4/04	2200	6.492	762	0	0.667	350.2	32.08	52.35	0.001	0
4/4/04	2300	5.182	763	0	0.873	270.8	23.76	60.01	0.008	0.00003
4/4/04	2400	3.562	763	0	1.152	252.4	30.72	67.27	0.018	0.00006
4/5/04	100	2.883	763	0	0.379	347.1	34.66	71.9	0.01	0.00004
4/5/04	200	1.795	763	0	0.418	347.3	61.65	74.1	0.013	0.00005
4/5/04	300	1.421	763	0	0.508	292.3	57.58	81.8	0.002	0.00001
4/5/04	400	0.544	763	0	0.878	248.7	19.73	82.1	0.001	0
4/5/04	500	2.105	763	0	1.217	41.12	24.26	56.15	0.003	0.00001
4/5/04	600	2.961	763	0	0.948	49.15	22.5	57.15	0.074	0.00026
4/5/04	700	2.963	764	0	1.105	45.83	26.61	51.74	30.75	0.11069
4/5/04	800	4.965	764	0	1.47	30.29	24.6	41.24	228.8	0.82386
4/5/04	900	6.303	765	0	3.153	38.4	17.84	31.17	434.3	1.5634
4/5/04	1000	7.45	765	0	3.579	34.37	22.45	28.06	616	2.2176
4/5/04	1100	8.72	765	0	2.933	54.26	35.89	26.92	732	2.6337
4/5/04	1200	10.22	765	0	1.924	60.32	70.3	24.21	785	2.8243
4/5/04	1300	11.88	765	0	2.204	42.58	63.45	20.57	783	2.8182
4/5/04	1400	13.2	764	0	2.263	11.59	59.75	18.3	740	2.6656
4/5/04	1500	14.08	764	0	2.012	57.62	81.3	17.53	634.7	2.2848
4/5/04	1600	14.91	763	0	1.631	40.48	69.7	19.47	488.6	1.7589
4/5/04	1700	15.33	763	0	1.267	80.4	61.35	17.23	337.5	1.2149
4/5/04	1800	15.3	763	0	1.455	23.04	76.2	18.47	168.9	0.60788
4/5/04	1900	13.92	763	0	0.995	234.6	41.11	27.85	32.04	0.11534
4/5/04	2000	11.73	763	0	0.485	341.2	72.4	29.83	0.099	0.00036
4/5/04	2100	9.91	763	0	0.891	7.67	39.94	36.45	0	0
4/5/04	2200	8.51	764	0	0.372	6.424	31.63	40.45	0	0
4/5/04	2300	8	764	0	0.357	4.294	39.28	44.83	0.002	0.00001
4/5/04	2400	7.59	764	0	1.234	37.46	21.06	35.52	0.002	0.00001
4/6/04	100	6.524	764	0	0.821	321.4	75.1	55.03	0.007	0.00003
4/6/04	200	4.744	764	0	0.828	300.8	79.6	54.96	0.014	0.00005
4/6/04	300	4.283	764	0	0.66	35.08	23.41	55.57	0.007	0.00002
4/6/04	400	3.652	764	0	1.005	34.68	15.98	54.9	0.01	0.00004
4/6/04	500	2.903	764	0	0.619	11.82	30.3	68.2	0.006	0.00002
4/6/04	600	2.256	764	0	0.873	20	15.5	62.36	0.085	0.00031
4/6/04	700	2.443	764	0	0.428	347.7	39.55	59.25	31.6	0.11375
4/6/04	800	4.789	765	0	1.087	33.24	26.87	46.11	158.4	0.57008

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/6/04	900	7.94	765	0	1.779	34.02	21.45	32.47	376.3	1.3546
4/6/04	1000	11.18	765	0	1.7	26.12	62.47	25.35	617.2	2.222
4/6/04	1100	13.16	765	0	1.643	145.3	45.71	22.51	728	2.6198
4/6/04	1200	15.01	764	0	1.169	107.5	70.6	23.47	780	2.8085
4/6/04	1300	16.52	763	0	1.911	199.3	70.4	18.29	789	2.8412
4/6/04	1400	18.13	763	0	2.673	208.7	38.78	19.6	752	2.707
4/6/04	1500	19.53	762	0	2.362	203.7	33.02	23.6	671.2	2.4163
4/6/04	1600	20.61	761	0	2.55	203.4	38.35	20.23	553	1.9908
4/6/04	1700	21.19	760	0	2.139	184	43.31	22.1	405	1.4579
4/6/04	1800	21.11	760	0	2.285	179.3	30.28	23.77	224.3	0.80746
4/6/04	1900	19.91	760	0	1.971	189.7	22.26	30.01	45.73	0.16462
4/6/04	2000	16.37	760	0	1.339	210.5	22.42	37.07	0.17	0.00061
4/6/04	2100	14.22	760	0	0.968	246.8	25.32	45.12	0.003	0.00001
4/6/04	2200	12.57	760	0	0.832	263.4	19.51	51.44	0.001	0
4/6/04	2300	11.1	760	0	0.732	338.8	59.47	57.62	0	0
4/6/04	2400	9.52	760	0	0.811	291.3	67.78	70.1	0	0
4/7/04	100	8.44	759	0	1.375	242.6	23.16	74.1	0.001	0
4/7/04	200	7.53	759	0	1.172	242.1	26.06	75.7	0.004	0.00001
4/7/04	300	7.07	759	0	0.546	294.8	43.35	72	0.006	0.00002
4/7/04	400	6.751	759	0	0.568	283.5	49.13	77.3	0.012	0.00004
4/7/04	500	6.028	759	0	0.223	326.6	31.45	80.9	0.016	0.00006
4/7/04	600	5.54	759	0	0.561	281.5	50.54	83.6	0.148	0.00053
4/7/04	700	5.742	759	0	0.792	274.2	24.02	81.1	31.9	0.11483
4/7/04	800	8.77	760	0	0.304	252	43.13	64.34	218.3	0.7858
4/7/04	900	13.58	760	0	0.895	259.6	45.53	50.66	365.4	1.3156
4/7/04	1000	16.29	760	0	1.96	208.8	72.3	46.11	502.2	1.8078
4/7/04	1100	18.43	760	0	1.369	238.9	38.95	40.46	546.6	1.9677
4/7/04	1200	20.46	759	0	1.621	250.5	46.58	31.18	704	2.5343
4/7/04	1300	21.98	758	0	1.782	211.1	55.05	23.44	684.4	2.4639
4/7/04	1400	23	758	0	2.135	195.3	52.44	22.07	770	2.7705
4/7/04	1500	23.65	757	0	2.948	207.5	36.38	25.47	720	2.591
4/7/04	1600	23.99	756	0	2.346	209.4	64.42	22.67	565.9	2.0372
4/7/04	1700	24.27	755	0	2.303	174.8	47.07	22.87	389.1	1.4007
4/7/04	1800	23.74	755	0	2.044	174.9	23.2	24.74	163.2	0.58769
4/7/04	1900	22.94	755	0	2.158	193.4	21.47	28.34	22.18	0.07983
4/7/04	2000	21.3	755	0	1.516	231.5	14.47	35.12	0.033	0.00012
4/7/04	2100	20.72	755	0	1.663	244.4	18.44	34.02	0	0
4/7/04	2200	20.03	755	0	2.362	284.6	30.72	43.03	0	0
4/7/04	2300	17.99	755	0	1.828	275.7	59.99	51.82	0	0
4/7/04	2400	16.87	755	0	0.989	247.9	37.98	57.67	0	0
4/8/04	100	15.97	755	0	1.024	232.7	26.28	64.02	0.001	0
4/8/04	200	15.16	754	0	0.64	243.5	54.25	75.3	0.001	0
4/8/04	300	14.16	754	0	1.039	240	31.18	76.2	0.005	0.00002

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/8/04	400	14.36	754	0	0.727	277.6	88.8	72.4	0.006	0.00002
4/8/04	500	13.62	753	0	0.825	8.37	22.85	76.5	0.008	0.00003
4/8/04	600	12.31	754	0	0.362	308.1	36.05	81.6	0.091	0.00033
4/8/04	700	11.56	753	0	1.402	241.9	16.9	82.1	28.38	0.10216
4/8/04	800	13.59	754	0	1.075	212.5	34.27	69.1	174.2	0.62726
4/8/04	900	15.95	754	0	1.397	231.2	17.02	64.62	195.3	0.7031
4/8/04	1000	17.38	754	0	2.097	233.3	15.31	56.4	260.6	0.93815
4/8/04	1100	18.87	754	0	2.748	215.6	17.92	44.83	507.9	1.8283
4/8/04	1200	20.46	754	0	2.769	246.8	30.96	43.23	435.4	1.5676
4/8/04	1300	20.45	754	0	3.108	264	25.25	44.53	284.8	1.0253
4/8/04	1400	21.24	753	0	2.76	239.3	39.84	39.73	589.4	2.1217
4/8/04	1500	22.56	753	0	3.358	222	30.65	39.59	522.2	1.8798
4/8/04	1600	23.03	752	0	2.851	247.3	31.66	35.82	425.6	1.5322
4/8/04	1700	23.71	752	0	4.231	242.5	18.54	32.85	403.4	1.4523
4/8/04	1800	23.65	752	0	2.501	286.1	33.72	32.38	158.5	0.57051
4/8/04	1900	22.73	753	0	2.521	268.5	27.85	37.52	29.67	0.10683
4/8/04	2000	21.53	753	0	1.517	252.5	29.77	39.49	0.225	0.00081
4/8/04	2100	20.76	754	0	1.801	264.9	31.73	38.69	0	0
4/8/04	2200	19.6	755	0	1.944	295.9	47.32	35.16	0	0
4/8/04	2300	17.74	756	0	1.48	348.2	32.73	35.06	0	0
4/8/04	2400	15.85	756	0	2.01	13.31	25.33	37.37	0.002	0.00001
4/9/04	100	15.39	757	0	2.491	14.96	27.47	42.08	0.005	0.00002
4/9/04	200	13.08	757	0	1.033	13.09	59.85	55.67	0.003	0.00001
4/9/04	300	10.6	758	0	0.529	21.63	26.85	62.33	0.001	0
4/9/04	400	9.06	758	0	0.632	25.44	42.33	69.32	0	0
4/9/04	500	8.02	758	0	0.55	22.35	28.74	76.2	0.001	0
4/9/04	600	7.04	759	0	0.487	15.11	29.43	77.9	0.233	0.00084
4/9/04	700	7.86	759	0	1.254	23.37	26.09	65.79	45.19	0.1627
4/9/04	800	11.35	760	0	2.908	32.02	15.44	58.63	234.6	0.8446
4/9/04	900	12.99	760	0	3.483	20.88	19.1	53.63	435.6	1.5681
4/9/04	1000	14.69	760	0	3.141	40.59	24.6	50.66	613.2	2.2073
4/9/04	1100	15.8	761	0	2.935	29.92	34.28	42.47	727	2.6161
4/9/04	1200	17.13	760	0	2.918	38.21	45.64	33.25	789	2.8408
4/9/04	1300	18.34	760	0	2.53	60.31	39.94	31.41	794	2.8572
4/9/04	1400	19.56	759	0	2.856	59.22	32.12	31.25	756	2.7211
4/9/04	1500	20.69	759	0	2.614	32.87	40.58	28.94	677.6	2.4395
4/9/04	1600	21.55	759	0	2.42	65.98	49.23	25.94	555.5	1.9998
4/9/04	1700	21.9	758	0	2.054	50.17	32.85	23.4	410.1	1.4762
4/9/04	1800	21.88	758	0	2.036	33.06	26.02	23.37	221.8	0.79842
4/9/04	1900	20.91	758	0	1.732	27.38	16.23	26.81	48.01	0.17284
4/9/04	2000	17.88	758	0	1.24	37.08	12.33	34.8	0.321	0.00115
4/9/04	2100	15.48	759	0	1.22	26.16	14.85	46.12	0	0
4/9/04	2200	13.19	759	0	0.483	16.81	30.25	51.8	0.003	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/9/04	2300	12.11	759	0	0.874	12.16	20.08	46.67	0.005	0.00002
4/9/04	2400	13.66	760	0	1.987	31.51	19.27	40.32	0.004	0.00001
4/10/04	100	13.77	759	0	2.517	36.85	16.39	45.79	0.013	0.00005
4/10/04	200	13.12	759	0	2.118	42.18	23.05	52.44	0.013	0.00005
4/10/04	300	11.27	759	0	0.736	25.63	15.88	61.4	0.008	0.00003
4/10/04	400	9.16	759	0	0.402	39.02	24.64	68.65	0	0
4/10/04	500	8.45	759	0	0.32	0.917	60.23	72.1	0	0
4/10/04	600	8.84	759	0	0.863	37.24	18.82	69.68	0.259	0.00093
4/10/04	700	9.11	760	0	0.7	22.92	24.71	63.34	29.43	0.10596
4/10/04	800	11.84	760	0	2.14	24.71	14.69	54.18	122.3	0.44029
4/10/04	900	12.9	760	0	3.346	28.36	13.64	54.73	120.3	0.43323
4/10/04	1000	13.39	760	0	3.525	24.84	13.42	52.56	157.2	0.56608
4/10/04	1100	14.03	760	0	2.413	11.06	20.5	52.96	179.1	0.6447
4/10/04	1200	14.18	760	0	2.653	353.9	15.74	55.03	145.5	0.52379
4/10/04	1300	14.17	760	0	2.091	16.51	20.28	56.5	153.5	0.55258
4/10/04	1400	14.67	760	0	1.607	21.99	31.2	53.16	113.7	0.40944
4/10/04	1500	15.25	760	0	1.3	26.12	32.86	51.23	142.6	0.51328
4/10/04	1600	15.67	759	0	0.921	11.52	48.51	48.66	156.5	0.56339
4/10/04	1700	16.21	759	0	0.978	358.5	36.37	50.63	119	0.42845
4/10/04	1800	15.88	759	0	1.843	11.8	17.46	53.16	43.36	0.1561
4/10/04	1900	15.64	759	0	0.977	44.38	72.1	54.07	17.49	0.06298
4/10/04	2000	14.71	758	0	0.551	240.9	33.73	61.01	0.426	0.00154
4/10/04	2100	13.58	758	0	0.546	267.8	20.07	65.82	0	0
4/10/04	2200	12.73	759	0	1.138	244.8	14.43	72.5	0.001	0
4/10/04	2300	12.29	759	0	0.346	332.4	27.65	76.9	0.002	0.00001
4/10/04	2400	11.13	759	0	0.495	8.69	20	81.1	0.01	0.00004
4/11/04	100	10.39	758	0	0.323	357.6	26.36	83.7	0.006	0.00002
4/11/04	200	9.84	758	0	0.575	359.6	23.96	86.2	0.007	0.00003
4/11/04	300	9.99	758	0	0.396	283.3	48.74	85.7	0.012	0.00004
4/11/04	400	9.63	758	0	0.434	307.3	53.36	87.2	0.006	0.00002
4/11/04	500	9.79	758	0	0.738	257.5	23.95	88.7	0.009	0.00003
4/11/04	600	9.97	758	0	1.33	237.4	13.59	90.1	0.046	0.00017
4/11/04	700	10.15	759	0.1	0.802	23.72	40.76	92.6	7.64	0.0275
4/11/04	800	10.32	759	0.2	0.795	21.69	26.08	93.6	27.05	0.09738
4/11/04	900	10.68	759	0.1	0.958	47.26	27.01	91.9	53.21	0.19156
4/11/04	1000	11.22	759	0	1.291	23.55	34.07	90.9	52.69	0.18967
4/11/04	1100	11.24	759	0.2	1.545	24.15	21.15	90.9	57.82	0.20815
4/11/04	1200	11	759	0.5	1.807	19.04	17.39	93.8	71.2	0.25616
4/11/04	1300	10.68	759	0.9	1.726	32.03	17.43	94.7	83.5	0.30065
4/11/04	1400	10.88	759	0.4	2.213	24.63	15.27	94.3	117.4	0.42247
4/11/04	1500	11.1	759	0.3	2.677	26.36	13.82	92.8	105.3	0.3791
4/11/04	1600	11.32	759	0	2.055	27.32	16.01	93.9	43.36	0.15609
4/11/04	1700	11.23	759	0.1	2.09	20.08	15.69	93.4	34.18	0.12306

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/11/04	1800	11.06	759	0.2	2.389	24.25	13.59	94.7	19.78	0.0712
4/11/04	1900	11.05	759	0.2	1.893	17.49	16.57	94.8	6.476	0.02331
4/11/04	2000	11.01	759	0.1	2.596	26.59	13.1	94.5	0.168	0.0006
4/11/04	2100	11.1	759	0	3.247	30.15	13.38	93.5	0.012	0.00004
4/11/04	2200	11.29	759	0	2.597	41.16	14.61	92.4	0.012	0.00004
4/11/04	2300	11.05	759	0	3.166	28.39	12.32	93.9	0.009	0.00003
4/11/04	2400	10.87	758	0	2.517	28.68	18.09	93.2	0.009	0.00003
4/12/04	100	10.71	758	0	2.812	30.7	13.44	91.5	0.013	0.00005
4/12/04	200	10.72	757	0	3.093	29.3	15.05	90.9	0.009	0.00003
4/12/04	300	10.87	757	0	2.567	33.14	12.03	89.7	0.017	0.00006
4/12/04	400	10.82	756	0	2.883	31.53	13.01	90.3	0.014	0.00005
4/12/04	500	10.71	755	0	3.649	34.63	13.23	89.5	0.015	0.00005
4/12/04	600	10.81	754	0	3.479	37.33	13.92	89.8	0.06	0.00021
4/12/04	700	11	754	0	3.072	36.97	14.15	90.2	6.232	0.02243
4/12/04	800	10.94	754	0.7	2.84	38.86	13.42	94.6	20.87	0.07514
4/12/04	900	11	753	0.9	2.963	28.92	16.69	95.5	28.29	0.10185
4/12/04	1000	10.94	753	2.7	2.099	23.11	34.6	96.6	29.73	0.10701
4/12/04	1100	11.4	754	0	2.528	18.39	15.95	95	58.54	0.21074
4/12/04	1200	12.02	753	0	2.2	25.18	19.61	92.7	140.5	0.50574
4/12/04	1300	12.49	753	0.2	1.963	360	32.88	93	80.4	0.28941
4/12/04	1400	12.44	753	0.2	1.381	0.233	23.24	94.5	54.4	0.19583
4/12/04	1500	12.53	753	0.3	1.117	2.462	27.9	95	74.9	0.26952
4/12/04	1600	12.78	753	0	0.936	22.52	31.07	94.3	61.28	0.22061
4/12/04	1700	13.21	753	0	1.236	5.914	28.09	92.5	121.4	0.43716
4/12/04	1800	13.42	753	0.1	1.429	348.8	21.69	93.6	43.33	0.15598
4/12/04	1900	12.89	754	0	1.58	4.595	23.3	94.7	10.3	0.03708
4/12/04	2000	12.4	754	0	1.625	21.33	17.95	95	0.205	0.00074
4/12/04	2100	12.09	754	0	2.024	25.19	17.87	94.5	0.001	0
4/12/04	2200	11.6	754	0	2.381	31.49	27.61	93.1	0.001	0
4/12/04	2300	10.7	754	0.1	2.83	29.53	18.8	93.2	0.005	0.00002
4/12/04	2400	10.03	754	1.8	3.089	25.23	35.25	94.6	0.007	0.00003
4/13/04	100	9.34	754	0.8	3.282	23.78	18.8	95.8	0.01	0.00004
4/13/04	200	9.12	753	2.6	1.797	24.19	15.35	96.6	0.012	0.00004
4/13/04	300	9.31	752	0.1	3.494	22.55	27.16	96.6	0.015	0.00005
4/13/04	400	9.6	750	1.9	2.566	19.8	45.77	96.7	0.018	0.00007
4/13/04	500	9.8	751	0.7	2.961	22.73	31.38	97.3	0.017	0.00006
4/13/04	600	10.41	750	0.6	1.459	33.64	55.84	97.3	0.054	0.00019
4/13/04	700	11.03	749	0	2.371	347.8	63.7	96.9	3.997	0.01439
4/13/04	800	10.34	750	0.1	1.885	239.9	28.61	94.2	26.69	0.09607
4/13/04	900	10.06	750	0	2.038	249.6	17.13	94.5	144.6	0.52073
4/13/04	1000	10.42	750	0	2.229	265.1	25.69	91.6	159.7	0.57494
4/13/04	1100	11.1	750	0	3.636	255.6	16.16	87.6	234.3	0.84353
4/13/04	1200	10.98	750	0	2.084	290.7	23.38	89	86.9	0.3129

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/13/04	1300	10.26	750	0	3.017	255.6	32.67	88.4	56.6	0.20377
4/13/04	1400	9.32	751	0.2	3.937	256	23.64	92.4	52	0.1872
4/13/04	1500	7.88	752	0.3	3.086	270.5	17.73	93.9	54.05	0.19458
4/13/04	1600	7.18	752	0.5	3.427	265.3	19.09	91.5	56.01	0.20165
4/13/04	1700	6.745	753	0.5	3.859	255.4	16.43	88	69.32	0.24955
4/13/04	1800	5.673	754	0.1	3.131	266.6	21.95	86.4	56.04	0.20176
4/13/04	1900	4.619	755	0	3.301	272.9	22.23	85.6	10.62	0.03824
4/13/04	2000	3.649	755	0	3.946	263.4	15.91	83.7	0.104	0.00037
4/13/04	2100	3.399	756	0	3.486	264.4	18.03	83.8	0.011	0.00004
4/13/04	2200	3.035	756	0	3.706	261.6	15.31	85	0.019	0.00007
4/13/04	2300	2.633	756	0.2	3.087	266.8	17.35	91	0.01	0.00004
4/13/04	2400	2.51	757	0.1	2.567	251.4	19.36	91.8	0.016	0.00006
4/14/04	100	2.255	757	0.4	2.616	247.6	13.85	94.1	0.019	0.00007
4/14/04	200	1.969	757	0.2	2.68	250.1	14.72	93	0.018	0.00007
4/14/04	300	2.379	757	0	2.481	260.3	17.19	91.1	0.017	0.00006
4/14/04	400	2.518	757	0	2.394	258	16.54	91.1	0.016	0.00006
4/14/04	500	2.625	757	0	1.42	278.3	30.72	89.6	0.014	0.00005
4/14/04	600	2.833	758	0	1.964	264.3	18.53	88.9	0.287	0.00103
4/14/04	700	3.135	759	0	2.295	262.8	15.36	88	18.76	0.06755
4/14/04	800	3.531	760	0	1.177	220.9	37.87	87.5	42.2	0.15194
4/14/04	900	4.725	761	0	1.478	305.5	36.68	78.1	134.2	0.48319
4/14/04	1000	6.055	761	0.1	3.295	353.6	26.56	72.9	266.6	0.95983
4/14/04	1100	6.568	762	0	3.798	351.5	19.59	70.5	286.2	1.0302
4/14/04	1200	8.18	762	0	4.612	351.4	23.3	62.2	576.6	2.0757
4/14/04	1300	10.05	762	0	3.839	3.026	29.65	52.03	732	2.6367
4/14/04	1400	11.6	762	0	3.382	346.9	34.53	44.38	745	2.6821
4/14/04	1500	13.25	762	0	3.032	345.1	36.1	32.76	712	2.5625
4/14/04	1600	14.17	761	0	3.946	331	33.96	31.62	599	2.1564
4/14/04	1700	14.55	761	0	3.574	336.6	29.2	31.69	442.6	1.5935
4/14/04	1800	14.3	762	0	3.52	346.1	25.34	33.39	246.4	0.88722
4/14/04	1900	13.59	762	0	1.887	342	30.88	34.8	60.65	0.21833
4/14/04	2000	11.63	763	0	1.034	342.2	29.67	52.04	0.699	0.00252
4/14/04	2100	9.1	763	0	0.511	283.8	28.38	60.83	0	0
4/14/04	2200	7.74	764	0	0.782	342	46.06	73.8	0	0
4/14/04	2300	5.801	764	0	1.002	247.5	21.3	77.7	0.003	0.00001
4/14/04	2400	5.376	764	0	0.494	3.634	26.93	79.2	0.009	0.00003
4/15/04	100	4.531	765	0	0.442	358	52.24	86.7	0.014	0.00005
4/15/04	200	3.404	765	0	0.278	306.8	35.42	90.3	0.012	0.00004
4/15/04	300	2.876	765	0	0.509	347.8	46.74	90.3	0.012	0.00004
4/15/04	400	2.44	765	0	0.502	5.442	18.4	92.1	0.006	0.00002
4/15/04	500	2.124	765	0	0.481	355.6	25.59	93	0.004	0.00001
4/15/04	600	1.845	766	0	0.504	324.5	43.71	93.7	0.76	0.00273
4/15/04	700	2.265	767	0	0.59	357.8	26.04	90.7	65.04	0.23413

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/15/04	800	5.236	767	0	0.423	358.7	34.69	77.5	246.2	0.8864
4/15/04	900	9.68	767	0	0.413	10.66	70.3	58.26	452.5	1.629
4/15/04	1000	13.72	767	0	0.887	20.46	59.73	44.88	630.2	2.2688
4/15/04	1100	15.47	767	0	2.282	40.06	45.03	38.16	733	2.6376
4/15/04	1200	16.63	767	0	2.719	35.11	46.79	33.32	785	2.8258
4/15/04	1300	18.02	767	0	2.367	68.56	49.65	31.15	798	2.8727
4/15/04	1400	18.96	766	0	2.397	79.4	49.56	31.81	741	2.6673
4/15/04	1500	19.66	766	0	2.324	71.5	51.45	34.75	665.2	2.3947
4/15/04	1600	20.22	766	0	2.21	102.6	46.93	30.25	553.3	1.992
4/15/04	1700	20.53	765	0	1.95	71.3	49.77	28.54	412.7	1.4855
4/15/04	1800	20.58	765	0	2.034	100.4	43.77	31.48	235.3	0.84702
4/15/04	1900	19.68	765	0	1.148	44.63	46.24	44	54.62	0.19663
4/15/04	2000	16.15	765	0	0.696	311.9	51.44	55.47	0.46	0.00166
4/15/04	2100	13.75	765	0	0.626	308.9	48.98	62.75	0.003	0.00001
4/15/04	2200	12.16	766	0	0.495	350.4	37.73	70.7	0.001	0
4/15/04	2300	10.71	766	0	0.415	328.2	41.99	78.4	0	0
4/15/04	2400	9.25	766	0	0.707	300.1	51.77	82.2	0	0
4/16/04	100	8.35	766	0	0.429	321.2	52.67	86.9	0.001	0
4/16/04	200	7.45	766	0	0.515	335.4	53.93	87.4	0.005	0.00002
4/16/04	300	6.955	766	0	0.302	345.2	37.3	89.6	0.006	0.00002
4/16/04	400	6.333	766	0	0.314	2.057	21.06	90.3	0.015	0.00005
4/16/04	500	5.928	767	0	0.498	350.1	38.87	91.1	0.016	0.00006
4/16/04	600	5.681	767	0	0.554	5.655	38.6	90.9	0.732	0.00263
4/16/04	700	6.168	768	0	0.452	306.9	32.65	88.6	64.56	0.23241
4/16/04	800	8.06	768	0	0.815	1.372	31.44	84.7	102.8	0.37026
4/16/04	900	10.16	768	0	0.861	358.8	53.57	75.3	231.7	0.83403
4/16/04	1000	14.28	768	0	0.765	348.9	80.3	58.57	552.2	1.9879
4/16/04	1100	17.75	768	0	1.114	147.2	67.75	50.41	721	2.5965
4/16/04	1200	20.25	768	0	2.454	190.2	45.84	38.56	773	2.7819
4/16/04	1300	21.83	767	0	3.586	229.5	27.82	28.94	779	2.8051
4/16/04	1400	22.75	767	0	3.989	232.1	23.92	32.72	748	2.6928
4/16/04	1500	23.43	766	0	4.334	240.8	20.49	29.51	664.5	2.392
4/16/04	1600	24.31	766	0	4.245	227.2	22.99	24.64	542.5	1.953
4/16/04	1700	24.63	765	0	4.698	227	16.9	25.07	397.2	1.43
4/16/04	1800	24.2	765	0	4.42	231.7	15.43	28.11	222.3	0.8004
4/16/04	1900	23.13	765	0	2.04	214.6	17.8	34.28	55.66	0.20038
4/16/04	2000	20.61	766	0	1.291	192.7	22.83	32.62	0.737	0.00265
4/16/04	2100	20.68	766	0	1.815	217.7	16.6	34.26	0	0
4/16/04	2200	19.06	766	0	1.208	229.1	13.97	44.65	0	0
4/16/04	2300	16.7	767	0	1.218	235.5	9.25	52.93	0.002	0.00001
4/16/04	2400	14.72	767	0	1.164	225.1	20.95	59.11	0.006	0.00002
4/17/04	100	12.97	767	0	1.327	241.4	19.07	69.5	0.002	0.00001
4/17/04	200	11.78	767	0	0.848	270.6	22.04	73.9	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/17/04	300	10.74	767	0	0.7	304.4	56.22	78.6	0	0
4/17/04	400	10.04	767	0	0.119	324.6	16.47	82.3	0	0
4/17/04	500	9.34	767	0	0.218	319.8	32.25	83.2	0	0
4/17/04	600	9.08	768	0	0.317	314.4	27.25	84.7	0.881	0.00317
4/17/04	700	9.62	768	0	0.211	309.5	20.76	75.2	64.2	0.23113
4/17/04	800	12.45	769	0	0.985	228.1	17.86	67.97	251.7	0.90598
4/17/04	900	16.94	769	0	2.232	220.5	25.1	51.56	442	1.5912
4/17/04	1000	19.52	769	0	4.049	234.5	14.3	47.94	603.1	2.171
4/17/04	1100	21.48	770	0	3.618	226.1	18.08	46.97	705	2.5371
4/17/04	1200	23.04	770	0	4.306	224.8	18.72	41.43	763	2.7465
4/17/04	1300	23.99	769	0	5.574	227.4	19.1	36.79	772	2.7785
4/17/04	1400	24.82	769	0	4.99	222.8	21.95	36.59	734	2.6436
4/17/04	1500	25.28	768	0	5.123	215.4	22.25	35.48	651.5	2.3454
4/17/04	1600	25.68	768	0	5.186	218.6	18.88	36.48	532.3	1.9163
4/17/04	1700	25.86	768	0	4.838	207.1	18.9	37.16	383.9	1.3822
4/17/04	1800	25.52	768	0	4.301	210.8	15.6	37.32	216.3	0.7785
4/17/04	1900	24.6	768	0	3.002	200	15.98	38.93	57.86	0.2083
4/17/04	2000	22.63	768	0	2.012	194.3	14.89	42.76	0.844	0.00304
4/17/04	2100	20.93	768	0	1.575	232.2	17.15	49.14	0	0
4/17/04	2200	19.29	769	0	1.641	236.8	9.03	57.93	0	0
4/17/04	2300	17.1	769	0	1.456	230.3	9.56	66.46	0	0
4/17/04	2400	15.37	769	0	1.275	243	15.03	72.9	0.004	0.00001
4/18/04	100	14.31	769	0	0.248	316.6	23.56	75.8	0.006	0.00002
4/18/04	200	13.18	769	0	0.257	341.4	18.04	81.5	0.002	0.00001
4/18/04	300	11.95	769	0	0.48	299.6	53.8	87.5	0.002	0.00001
4/18/04	400	11.02	770	0	0.662	269.6	10.94	88.5	0	0
4/18/04	500	10.43	770	0	0.629	270.3	17.63	89.5	0	0
4/18/04	600	9.98	770	0	0.504	267.3	17.92	90.5	1.802	0.00649
4/18/04	700	10.34	770	0	0.856	249.2	30.87	87.6	71.8	0.2584
4/18/04	800	13.5	771	0	1.837	231.5	10.21	68.13	275.7	0.99267
4/18/04	900	19.24	771	0	2.616	232.2	14.06	53.86	448.6	1.615
4/18/04	1000	21	771	0	3.548	227	16.07	49.27	613.9	2.2101
4/18/04	1100	22.46	772	0	2.779	218.1	21.06	46.07	718	2.5837
4/18/04	1200	23.75	771	0	2.555	226.9	37.93	44.97	774	2.7863
4/18/04	1300	25	771	0	3.472	216.5	32.45	32.88	794	2.8585
4/18/04	1400	25.86	770	0	4.179	234.8	18.95	32.04	765	2.7554
4/18/04	1500	26.61	769	0	4.121	233.1	17.66	29.7	680.9	2.4514
4/18/04	1600	27.32	769	0	3.902	227.7	16.43	25.96	552.4	1.9886
4/18/04	1700	27.85	768	0	3.506	220.4	18.39	27.27	404.9	1.4577
4/18/04	1800	27.74	768	0	3.283	221.5	13.28	30.21	228.8	0.8235
4/18/04	1900	26.45	767	0	2.173	223.3	13.07	39.09	65.62	0.23621
4/18/04	2000	22.91	768	0	1.044	232.7	21.18	55.12	0.553	0.00199
4/18/04	2100	20.34	768	0	1.583	234.6	10.38	59.12	0	0



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/18/04	2200	19.45	769	0	1.264	230	8.81	61.78	0	0
4/18/04	2300	18.77	769	0	1.402	237.2	8.76	67.16	0	0
4/18/04	2400	16.79	769	0	1.575	238.9	7.68	71.6	0	0
4/19/04	100	15.55	769	0	1.641	235.5	9.07	80.1	0.002	0.00001
4/19/04	200	14.7	769	0	1.495	232.2	9.04	78.7	0.002	0.00001
4/19/04	300	14.26	768	0	1.351	236.9	8.08	76.6	0.004	0.00001
4/19/04	400	14.05	768	0	1.191	241.3	32.45	80.3	0.01	0.00004
4/19/04	500	13.37	768	0	0.59	267.2	28.95	85.2	0.01	0.00004
4/19/04	600	12.24	768	0	1.067	239.4	21.06	86.3	1.09	0.00392
4/19/04	700	12.79	769	0	1.777	239.1	6.748	79.2	69.51	0.25024
4/19/04	800	16.06	769	0	1.545	223.2	11.9	66.76	259.2	0.93329
4/19/04	900	19.4	770	0	3.13	213.8	19.45	57.59	463.5	1.6685
4/19/04	1000	21.24	770	0	3.863	223.3	24.16	50.91	620	2.232
4/19/04	1100	22.47	770	0	4.474	227	16.48	39.96	713	2.5672
4/19/04	1200	23.85	769	0	4.498	225	17.66	37.86	792	2.8504
4/19/04	1300	25.12	769	0	5.054	228.6	18.84	29.91	790	2.8424
4/19/04	1400	26.02	768	0	5.033	213.1	22.32	29	785	2.8256
4/19/04	1500	26.4	767	0	4.695	201.5	20.34	27.97	514	1.8503
4/19/04	1600	26.2	766	0	4.036	210.5	17.72	27.81	318.4	1.1464
4/19/04	1700	26.63	766	0	4.295	209.6	16.95	24.77	410.5	1.4776
4/19/04	1800	26.18	765	0	3.617	206.3	16.61	26.17	180.4	0.64961
4/19/04	1900	25	765	0	2.133	209.9	15.31	29.58	54.05	0.19459
4/19/04	2000	22.8	765	0	1.391	218.9	39.47	37.72	0.8	0.00288
4/19/04	2100	20.48	766	0	1.069	239.7	21.6	43.07	0	0
4/19/04	2200	18.99	766	0	1.318	257.7	19.68	51.86	0	0
4/19/04	2300	17.11	766	0	0.855	253.7	22.07	58.27	0	0
4/19/04	2400	15.8	766	0	1.073	258.6	17.85	65.29	0	0
4/20/04	100	14.79	765	0	0.974	247.5	19.44	69.23	0.001	0
4/20/04	200	14.35	765	0	0.344	310.6	30.39	72.3	0	0
4/20/04	300	13.64	765	0	0.439	321.1	43.99	77	0.009	0.00003
4/20/04	400	12.83	765	0	1.065	237.4	9.49	81.7	0.01	0.00004
4/20/04	500	12.56	764	0	1.182	234.1	14.96	77.6	0.009	0.00003
4/20/04	600	12.59	764	0	1.27	244.7	7.92	80.2	0.719	0.00259
4/20/04	700	12.63	764	0	1.414	221.2	21.75	75	42.21	0.15195
4/20/04	800	14.98	765	0	1.342	226.4	12.24	70.8	106.7	0.38407
4/20/04	900	16.14	765	0	1.311	211.8	26.46	78.5	114.4	0.41169
4/20/04	1000	16.67	765	0	2.141	228.4	22.69	72.9	189.7	0.68301
4/20/04	1100	18.75	765	0	1.575	179.4	29.99	70.1	254.2	0.91506
4/20/04	1200	19.55	764	0	1.974	199.7	29.75	58.99	407.5	1.4669
4/20/04	1300	22.07	764	0	1.884	188.9	37.72	53.78	510.1	1.8364
4/20/04	1400	22.7	763	0	2.121	167.9	32.99	50.31	440.8	1.5869
4/20/04	1500	23.8	762	0	1.856	186.1	56.02	45.87	608.2	2.1896
4/20/04	1600	23.91	761	0	2.237	183.9	37.82	41.66	386.1	1.39

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/20/04	1700	24.57	760	0	2.424	176.4	26.65	40.36	404.8	1.4574
4/20/04	1800	24.86	760	0	1.687	189	29.77	36.29	256.6	0.92381
4/20/04	1900	24	760	0	1.971	180.8	26.3	50.08	77.1	0.27743
4/20/04	2000	20.55	760	0	1.116	196	50.88	56.58	1.296	0.00466
4/20/04	2100	18.73	759	0	0.974	224.1	36.23	66.55	0	0
4/20/04	2200	16.99	760	0	1.462	239.4	9.34	68.96	0	0
4/20/04	2300	16.68	760	0	0.941	258.1	17.93	70.4	0	0
4/20/04	2400	15.39	760	0	1.174	232.2	11.97	73.5	0	0
4/21/04	100	15.5	760	0	0.981	235.7	17.85	75.6	0.001	0
4/21/04	200	14.47	760	0	1.155	246.5	13.63	79.8	0.004	0.00001
4/21/04	300	13.3	760	0	1.222	246.2	11.75	84.4	0.008	0.00003
4/21/04	400	12.77	760	0	1.175	256.7	12.19	85.8	0.01	0.00004
4/21/04	500	12.37	760	0	0.617	272.4	22.81	86.9	0.012	0.00004
4/21/04	600	12.02	760	0	0.805	271.2	31.91	91.3	1.833	0.0066
4/21/04	700	12.6	760	0	1.45	225.9	14.81	81	98	0.35283
4/21/04	800	16.14	760	0	1.857	189.9	22.63	67.92	227.5	0.8191
4/21/04	900	18.18	760	0	2.847	198.2	18.42	62.44	356.2	1.2824
4/21/04	1000	20.13	760	0	4.329	214.7	20.15	54.88	592.1	2.1314
4/21/04	1100	21.19	760	0	5.702	228	16.22	53.91	701	2.5235
4/21/04	1200	21.08	760	0	6.082	219.9	16.45	58.09	339.7	1.2228
4/21/04	1300	21.88	760	0	5.293	213.4	19.31	44.57	605.2	2.1787
4/21/04	1400	22.96	760	0	5.514	213.6	19.07	48.87	582.1	2.0955
4/21/04	1500	23.32	759	0	6.239	215.8	19.6	39.09	575.8	2.0729
4/21/04	1600	23.96	759	0	6.72	222.2	16.65	40.09	503.5	1.8126
4/21/04	1700	23.5	758	0	6.296	228.4	15.34	44.27	301.6	1.0859
4/21/04	1800	22.94	759	0	4.656	229	13.61	48.21	98.1	0.35321
4/21/04	1900	22.27	759	0	2.739	215	15.81	50.28	35.53	0.1279
4/21/04	2000	21.35	759	0	1.377	218.4	12.18	55.08	0.587	0.00211
4/21/04	2100	20.99	759	0	1.379	210.5	29.55	58.92	0.001	0
4/21/04	2200	20.17	760	0	1.589	223.1	20.03	62.59	0	0
4/21/04	2300	17.65	760	0.1	1.235	261.6	53.04	87.8	0	0
4/21/04	2400	16.5	761	0.1	0.617	344.4	36.69	92.3	0	0
4/22/04	100	16.02	761	0	0.589	290.5	39.31	94.1	0	0
4/22/04	200	15.7	760	0.6	0.696	276.3	34.56	93.2	0	0
4/22/04	300	15.82	760	0	0.379	315.7	28.74	94.7	0	0
4/22/04	400	15.62	760	0	0.219	305.3	16.79	95.5	0	0
4/22/04	500	15.7	760	0.1	0.974	244.9	20.48	89.2	0	0
4/22/04	600	17.01	761	0	2.268	209.9	15.16	78.8	1.03	0.00371
4/22/04	700	17.67	761	0	2.765	205.6	14.43	76.2	62.58	0.22527
4/22/04	800	18.44	762	0	2.206	202.7	16.6	72.2	207.9	0.74842
4/22/04	900	19.76	762	0	2.722	202.5	20.85	62.23	423.5	1.5246
4/22/04	1000	20.83	762	0	4.431	212.9	17.27	57.92	504.3	1.8156
4/22/04	1100	21.61	762	0	4.784	220.6	18.93	46.84	600.3	2.161

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/22/04	1200	22.23	762	0	5.991	224.6	17.09	45.03	592.4	2.1328
4/22/04	1300	22.49	762	0	5.606	228.9	17.11	49.97	448	1.6127
4/22/04	1400	22.97	762	0	5.331	229.7	19.31	46.97	526.2	1.8943
4/22/04	1500	23.38	762	0	5.589	235.7	15.79	43.33	424.3	1.5275
4/22/04	1600	23.2	762	0	4.913	230.5	14.24	48.37	226.3	0.81481
4/22/04	1700	23.44	762	0	3.775	225.7	16.89	43.87	269.7	0.97098
4/22/04	1800	23.75	762	0	3.283	223.9	17.09	48.54	72.1	0.25945
4/22/04	1900	22.94	762	0	1.666	206	16.65	51.18	27.83	0.10021
4/22/04	2000	21.59	761	0	0.853	226.3	49.11	60.02	0.425	0.00153
4/22/04	2100	20.29	762	0	1.513	231.3	29.13	74.4	0	0
4/22/04	2200	18.28	763	0.1	1.157	219	47.4	86.1	0	0
4/22/04	2300	17.46	763	0	0.479	317.7	39.87	87.5	0	0
4/22/04	2400	16.87	763	0	1.006	246.1	30.6	91.2	0	0
4/23/04	100	16.63	763	0	0.823	245.3	24.29	91.8	0	0
4/23/04	200	16.61	763	0	0.589	281.5	41.15	91.5	0	0
4/23/04	300	16.38	762	0	0.594	2.2	25.79	92.4	0	0
4/23/04	400	15.57	762	0	0.837	240.4	16.97	95.2	0	0
4/23/04	500	15.22	762	0	1.186	238.3	12.43	95.6	0	0
4/23/04	600	16.01	763	0	0.875	236.6	18.29	90.8	0.425	0.00153
4/23/04	700	16.86	763	0	1.161	237	27.58	90.8	34.27	0.12337
4/23/04	800	17.3	763	0	0.966	226.5	17.51	90.1	52.8	0.19008
4/23/04	900	18.68	764	0	2.171	225	23.07	80.1	251.2	0.90427
4/23/04	1000	20.54	764	0	3.611	220	18.33	76.4	352.3	1.2683
4/23/04	1100	21.72	764	0	4.318	226.2	17.76	72.2	496.5	1.7873
4/23/04	1200	23.5	764	0	4.103	224.1	22.29	66.83	650	2.3399
4/23/04	1300	24.71	763	0	3.878	221.3	24.22	57.68	710	2.5545
4/23/04	1400	25.51	763	0	4.851	218.1	24.76	53.94	680.1	2.4483
4/23/04	1500	25.8	762	0	4.563	246.8	22.4	59.95	319	1.1484
4/23/04	1600	25.05	762	0	2.641	307.9	27.45	64.23	301	1.0837
4/23/04	1700	24.82	762	0	2.302	333.7	22.2	68.57	237.9	0.85649
4/23/04	1800	23.21	762	0	2.854	340	23.21	61.79	235.6	0.84808
4/23/04	1900	22.82	762	0	1.601	331.1	20.46	68.37	62.39	0.22459
4/23/04	2000	20.94	762	0	0.921	349.4	26.58	77.3	1.296	0.00467
4/23/04	2100	19.92	763	0	0.669	350.9	54.52	81.7	0	0
4/23/04	2200	19.05	763	0	0.574	347.3	42.75	85.5	0	0
4/23/04	2300	19.16	764	0	0.955	32.94	40.69	81	0	0
4/23/04	2400	18.74	764	0	0.797	18.28	26.01	85.2	0	0
4/24/04	100	17.88	764	0	0.427	341	54.77	87.8	0	0
4/24/04	200	16.87	764	0	0.703	2.09	35.63	92.4	0	0
4/24/04	300	16.54	764	0	1.18	22.06	15.29	92.7	0	0
4/24/04	400	16.83	764	0	1.471	37.55	18.23	89.7	0	0
4/24/04	500	17.19	764	0	1.137	10.47	19.68	90.1	0	0
4/24/04	600	17.42	764	0	2.026	23.41	18.14	89.5	0.898	0.00323

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/24/04	700	17.42	765	0	2.825	26.6	13.47	87.5	29.89	0.10759
4/24/04	800	18.21	765	0	2.636	26.54	16.06	82.4	183.8	0.6618
4/24/04	900	19.42	765	0	2.551	28.92	20.96	76.3	219.4	0.78979
4/24/04	1000	20.99	765	0	2.811	31.56	22.88	69.9	511.3	1.8408
4/24/04	1100	23.03	765	0	3.081	54.15	34.2	62.73	684	2.4624
4/24/04	1200	24.52	765	0	2.453	56.28	40.85	58.22	710	2.5559
4/24/04	1300	26.03	764	0	1.776	52.16	64.58	52.6	730	2.6293
4/24/04	1400	27.07	763	0	1.433	49.97	72.5	51.03	666.7	2.4001
4/24/04	1500	27.75	763	0	1.762	19.97	65.04	51.59	537.7	1.9358
4/24/04	1600	28.05	762	0	1.749	111.6	73.2	48.32	484.1	1.7427
4/24/04	1700	28.15	762	0	1.748	195.9	38.61	47.46	325.4	1.1714
4/24/04	1800	27.58	762	0	2.055	163.4	18.69	52.7	165.6	0.59613
4/24/04	1900	26.76	762	0	1.36	152.6	16.44	60.89	47.54	0.17114
4/24/04	2000	25.11	762	0	1.254	155.8	13	64.43	0.44	0.00158
4/24/04	2100	23.66	762	0	1.456	214.9	26.9	72.4	0	0
4/24/04	2200	22.98	763	0	1.185	234.7	20.59	76.4	0	0
4/24/04	2300	22.53	762	0	1.09	237.3	22.57	74.7	0.001	0
4/24/04	2400	21.47	763	0	1.107	231.2	16.84	79.5	0.001	0
4/25/04	100	19.91	763	0	1.345	233.1	16.22	86.3	0	0
4/25/04	200	18.97	763	0	1.336	234.4	7.94	87.4	0.001	0
4/25/04	300	18.5	762	0	1.3	232.1	14.75	85.4	0	0
4/25/04	400	17.85	762	0	1.441	234.1	13.83	84.4	0	0
4/25/04	500	16.81	762	0	1.055	235.4	24.04	90.4	0	0
4/25/04	600	16.13	763	0	1.194	245.9	13.17	92.9	5.759	0.02073
4/25/04	700	16.86	763	0	1.243	236.3	17.14	78	91.3	0.32852
4/25/04	800	19.7	763	0	1.477	206.7	27.16	70.9	185.3	0.66693
4/25/04	900	21.3	763	0	2.253	216.9	18.23	65.67	246.4	0.8871
4/25/04	1000	21.84	764	0	2.403	202.2	16.43	63.33	170	0.61215
4/25/04	1100	22.41	763	0	2.97	205.8	19.18	56.82	258.2	0.92941
4/25/04	1200	24.02	763	0	4.296	217.9	20.8	47.2	511.7	1.842
4/25/04	1300	25.24	763	0	5.411	217.8	20.62	42.76	629	2.2643
4/25/04	1400	25.99	763	0	5.172	213.5	18.79	44.46	641.3	2.3087
4/25/04	1500	26.28	762	0	5.207	216.3	21.44	44.93	615.1	2.2143
4/25/04	1600	26.21	761	0	5.634	210.5	17.59	46.86	408	1.4686
4/25/04	1700	25.2	761	0	4.012	210.2	17.31	51.28	117.5	0.42283
4/25/04	1800	23.02	761	0.1	4.333	212.7	18.87	74.1	20.86	0.0751
4/25/04	1900	19.44	762	0.5	2.518	223.8	22.57	89.8	7.36	0.0265
4/25/04	2000	18.49	762	0.2	1.141	205.7	26.36	90.2	0.164	0.00059
4/25/04	2100	17.97	762	0.1	1.855	183.5	34.05	92.4	0	0
4/25/04	2200	17.74	763	0	2.088	189.7	35.56	93.1	0	0
4/25/04	2300	17.64	763	0	1.568	219.9	17.23	93.4	0	0
4/25/04	2400	17.64	763	0.1	1.742	196.7	32.51	93.7	0	0
4/26/04	100	17.58	762	0	1.584	198.7	21	93.9	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/26/04	200	17.32	762	0	1.337	223.1	16.35	93.9	0	0
4/26/04	300	17.17	761	0	1.219	224.5	17.97	94	0	0
4/26/04	400	17.1	761	0.1	1.726	199.3	17.9	94.2	0	0
4/26/04	500	16.76	761	0.3	2.469	247.8	40.94	92.8	0	0
4/26/04	600	15.34	761	0.5	2.237	267.4	19.83	93.8	0.25	0.0009
4/26/04	700	14.78	761	1	1.254	264.6	40.94	94.5	8.08	0.02909
4/26/04	800	14.74	762	0.6	0.916	307	59.27	94.8	31.73	0.11424
4/26/04	900	14.54	762	0.4	1.384	358	26.71	90.1	62.58	0.22529
4/26/04	1000	14.17	762	0.4	1.245	18.26	39.23	91.5	76.7	0.27627
4/26/04	1100	13.72	763	0.1	1.988	69.38	21.77	88.9	159	0.57231
4/26/04	1200	14.1	763	0	1.455	63.34	36.4	82.2	185.7	0.66861
4/26/04	1300	14.85	763	0	1.389	22.39	47.67	83.9	332.9	1.1984
4/26/04	1400	15.65	762	0	1.286	64.45	61.56	76.2	399.4	1.4379
4/26/04	1500	16.68	762	0	1.251	205.8	85.4	62.7	532.7	1.9178
4/26/04	1600	18.02	761	0	2.119	204.3	38.54	65.8	546	1.9655
4/26/04	1700	18.09	761	0	2.214	197.3	61.82	47.67	236.9	0.85271
4/26/04	1800	18.48	761	0	3.294	265.8	23.53	46.34	288.9	1.0401
4/26/04	1900	17.4	761	0	1.31	274.1	36.86	64.04	69.43	0.24996
4/26/04	2000	14.27	761	0	0.803	284	31.29	72.6	2.383	0.00858
4/26/04	2100	12.5	762	0	0.539	299.8	37.71	80.1	0.001	0
4/26/04	2200	11.44	762	0	0.675	275.5	35.6	84.6	0.009	0.00003
4/26/04	2300	10.23	762	0	0.644	264.1	15.73	88.1	0.008	0.00003
4/26/04	2400	9.32	762	0	0.937	250.5	13.78	92.6	0.002	0.00001
4/27/04	100	8.57	762	0	0.979	248.1	15.02	94.2	0.002	0.00001
4/27/04	200	8.03	761	0	0.616	264.3	18.4	94.3	0	0
4/27/04	300	7.48	761	0	0.971	250.4	18.93	95	0	0
4/27/04	400	6.745	761	0	0.976	242.3	12.8	96	0	0
4/27/04	500	6.709	761	0	1.107	247.6	18.75	95.7	0	0
4/27/04	600	6.159	761	0	1.049	236.2	13.5	96.3	3.523	0.01268
4/27/04	700	7.06	761	0	1.025	230.4	12.44	94.3	85.4	0.30752
4/27/04	800	9.74	761	0	1.152	204.6	17	80.1	275.9	0.99318
4/27/04	900	13	762	0	2.047	263.1	30.22	65.26	460.5	1.6578
4/27/04	1000	15.06	761	0	3.295	273.8	23.1	37.34	617	2.2212
4/27/04	1100	16.5	761	0	4.704	256.9	19.74	25.64	619.7	2.231
4/27/04	1200	17.34	761	0	5.257	274.9	22.71	29.38	696.3	2.5067
4/27/04	1300	17.55	761	0	4.973	277.1	28.77	26.34	675.3	2.4312
4/27/04	1400	18.2	760	0	5.599	274.1	26.78	26.24	810	2.9151
4/27/04	1500	18.17	760	0	5.88	271.6	24.49	22.7	614.9	2.2135
4/27/04	1600	17.8	760	0	4.938	269.8	25.85	25.27	433	1.5588
4/27/04	1700	17.9	760	0	4.564	282.5	29.47	21.7	425.1	1.5305
4/27/04	1800	17.23	761	0	3.437	294	40.4	22.6	258.2	0.92954
4/27/04	1900	15.71	761	0	2.647	295.9	42.95	26.05	83.4	0.30018
4/27/04	2000	14.12	762	0	1.662	294.5	49.97	25.08	2.701	0.00972

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/27/04	2100	12.75	763	0	1.28	291.6	37.63	42.52	0.001	0
4/27/04	2200	9.49	764	0	0.461	331.8	35.39	52.05	0.005	0.00002
4/27/04	2300	7.76	764	0	1.015	259.4	30.6	65.31	0.001	0
4/27/04	2400	6.62	764	0	0.382	337.1	41.41	70.2	0.006	0.00002
4/28/04	100	5.514	764	0	0.464	321.3	43.28	75.2	0.015	0.00005
4/28/04	200	4.483	764	0	0.806	262.4	33.93	87.4	0.013	0.00005
4/28/04	300	3.881	764	0	0.504	297.5	39.74	85.7	0.01	0.00004
4/28/04	400	3.545	765	0	0.516	300.2	55.42	89.2	0.01	0.00004
4/28/04	500	3.116	765	0	0.73	343.5	44.25	87.1	0.008	0.00003
4/28/04	600	3.098	766	0	0.781	5.58	23.23	89.6	4.103	0.01477
4/28/04	700	4.239	766	0	0.737	16.7	30.3	79.2	111.6	0.40177
4/28/04	800	7.47	767	0	0.897	19.5	34.84	71.5	306.5	1.1035
4/28/04	900	10.99	767	0	1.363	355.7	53.29	53.54	500.2	1.8007
4/28/04	1000	13.81	767	0	1.246	35.91	70.6	34.6	655.9	2.3611
4/28/04	1100	15.43	767	0	1.41	298.6	53.14	32.72	755	2.7182
4/28/04	1200	17.17	767	0	1.161	62.26	88	25.91	812	2.9249
4/28/04	1300	18.58	767	0	1.118	86.1	88.4	33.08	817	2.9416
4/28/04	1400	20.22	766	0	1.42	258.9	60.99	31.48	779	2.806
4/28/04	1500	21.68	766	0	1.223	136.8	59.71	23.64	706	2.5419
4/28/04	1600	22.29	766	0	1.381	160.5	72.2	27.44	598.6	2.1549
4/28/04	1700	22.76	765	0	1.637	230.1	44.68	27.54	450.3	1.6211
4/28/04	1800	22.84	765	0	1.517	206.7	33.48	27.54	270.4	0.97354
4/28/04	1900	21.83	765	0	1.366	174.6	30.37	42.56	81.7	0.29403
4/28/04	2000	18.07	765	0	0.543	274.3	42.54	50.65	1.635	0.00589
4/28/04	2100	15.8	766	0	0.599	280.7	26.39	58.84	0.001	0
4/28/04	2200	13.82	766	0	0.838	264.9	26.38	71.6	0.005	0.00002
4/28/04	2300	12.52	767	0	0.91	258.3	10.84	76.6	0.002	0.00001
4/28/04	2400	11.74	767	0	1.292	257.1	14.5	78.4	0	0
4/29/04	100	11.34	767	0	0.815	279.8	49.02	81.9	0	0
4/29/04	200	10.56	767	0	0.871	264.6	30.28	84.9	0	0
4/29/04	300	9.75	767	0	0.559	270.6	17.5	87.5	0.001	0
4/29/04	400	9.22	767	0	0.563	267.2	53.56	89.5	0	0
4/29/04	500	8.93	767	0	0.636	275.4	31.4	87	0.002	0.00001
4/29/04	600	8.67	768	0	0.805	269.6	30.99	87.5	5.225	0.01881
4/29/04	700	9.9	768	0	0.528	248.3	31	81.1	84.4	0.30381
4/29/04	800	12.31	769	0	0.951	234.3	27.43	68.47	267.4	0.96264
4/29/04	900	16.37	769	0	2.531	217.5	17.87	57.64	483	1.7387
4/29/04	1000	18.02	770	0	3.208	183.7	28.48	54.85	583.9	2.1022
4/29/04	1100	19.74	770	0	2.629	158	34.59	51.88	721	2.5942
4/29/04	1200	21.19	770	0	3.167	162.1	36.23	45.2	801	2.8833
4/29/04	1300	22.49	769	0	2.936	197.5	36.6	46.24	777	2.7966
4/29/04	1400	23.67	768	0	3.155	180.3	31.1	37.06	758	2.7295
4/29/04	1500	24.18	768	0	3.435	210.7	28.92	36.86	657.2	2.3659

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
4/29/04	1600	24.42	767	0	3.235	215.3	24.97	34.95	540.7	1.9466
4/29/04	1700	24.61	766	0	3.664	218.8	22.96	37.06	414.9	1.4935
4/29/04	1800	24.5	766	0	3.486	215.6	17.73	34.92	254.3	0.91535
4/29/04	1900	23.29	765	0	2.76	205.6	14.86	41.46	64.19	0.23108
4/29/04	2000	21.14	765	0	1.753	200.9	21.44	50.41	1.84	0.00663
4/29/04	2100	18.93	766	0	0.882	175.4	24.3	59.14	0	0
4/29/04	2200	17.58	766	0	0.442	301.2	34.22	64.65	0.001	0
4/29/04	2300	17.05	766	0	0.44	296.3	37.16	69.19	0.003	0.00001
4/29/04	2400	16.73	766	0	0.85	8.12	20.62	69.79	0.004	0.00002
4/30/04	100	16.15	766	0	0.725	7.13	19.28	74.7	0.004	0.00002
4/30/04	200	15.88	765	0	0.431	356.9	23.26	77.6	0.006	0.00002
4/30/04	300	15.4	765	0	0.342	8.93	23	79.6	0.011	0.00004
4/30/04	400	15.52	765	0	0.784	242.1	40.79	80.8	0.009	0.00003
4/30/04	500	16.19	765	0	0.371	300.9	53.21	78	0.008	0.00003
4/30/04	600	16.19	765	0	0.46	312.7	58.83	81.6	0.705	0.00254
4/30/04	700	16.28	765	0	0.723	286	70.4	80.1	14.94	0.05378
4/30/04	800	17.3	765	0	0.456	277.6	57.08	76.6	42.7	0.1537
4/30/04	900	18.77	766	0	1.687	205	16.81	72.7	53.7	0.19332
4/30/04	1000	19.42	766	0	2.42	199.5	17.13	67.07	200.8	0.723
4/30/04	1100	20.51	765	0	3.759	192	18.61	65.63	307.9	1.1085
4/30/04	1200	20.01	765	0	1.691	216.2	24.16	69.07	102.4	0.36867
4/30/04	1300	20.1	765	0	0.711	282.6	49.16	74.2	72.2	0.26009
4/30/04	1400	19.22	765	0	1.285	27.6	36.38	85.6	99	0.35638
4/30/04	1500	19.6	764	0	1.534	38.46	19.47	82.6	229.2	0.82498
4/30/04	1600	21.2	764	0	0.82	53.23	89.6	63.83	331.4	1.1931
4/30/04	1700	22.03	763	0	1.235	169	39.19	68	172.9	0.62233
4/30/04	1800	21.39	763	0	0.764	74	82.5	80	46.16	0.16617
4/30/04	1900	21.15	763	0	1.338	217.1	25.78	67.87	19.24	0.06927
4/30/04	2000	20.68	763	0	0.455	243.2	42.71	75.3	0.458	0.00165
4/30/04	2100	19.9	764	0	0.459	285.9	46.23	79.4	0	0
4/30/04	2200	18.73	764	0	0.397	343.6	43.99	86.8	0	0
4/30/04	2300	17.25	764	0	0.294	301.1	21.41	90.2	0.001	0
4/30/04	2400	16.29	763	0	0.421	260.5	17.79	91.8	0.002	0.00001
5/1/04	100	15.95	763	0	0.437	295.8	39.18	93.6	0.004	0.00001
5/1/04	200	15.48	763	0	0.239	287.9	11.18	94.2	0.009	0.00003
5/1/04	300	15.24	762	0	0.342	281.7	28.98	93.8	0.01	0.00004
5/1/04	400	14.58	762	0	0.434	3.066	37.17	94.8	0.008	0.00003
5/1/04	500	14.38	761	0	0.98	38.31	15.43	95.1	0.011	0.00004
5/1/04	600	14.59	761	0	0.625	3.236	37.08	94.3	2.378	0.00856
5/1/04	700	14.89	762	0	0.526	339.3	24.53	93.5	31.89	0.1148
5/1/04	800	16.38	762	0	0.462	351.9	52.94	87.7	116.3	0.41882
5/1/04	900	18	762	0	1.154	114.4	55.18	82.8	106.3	0.38258
5/1/04	1000	19.91	762	0	1.863	130.9	25.41	76	492.6	1.7733

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/1/04	1100	21.73	762	0	1.563	187.1	49.2	68.6	447.9	1.6125
5/1/04	1200	21.85	762	0	2.014	218.9	24.12	67.47	368.5	1.3266
5/1/04	1300	23.07	761	0	2.184	204.6	48.6	65.9	603.1	2.1711
5/1/04	1400	23.39	760	0	3.029	193.4	33	64.1	347.6	1.2512
5/1/04	1500	22.86	760	0	2.407	199.9	33.27	66.53	309.9	1.1158
5/1/04	1600	22.79	760	0	1.852	253.3	36.7	72.4	181	0.65152
5/1/04	1700	22.41	759	0	2.589	146.3	19.3	72.7	255	0.91788
5/1/04	1800	22.9	759	0	1.839	164	24.04	70	225.3	0.81091
5/1/04	1900	22.62	758	0	1.886	156.8	16.79	75.4	75.5	0.27196
5/1/04	2000	21.27	758	0	1.555	155	9.15	79.9	2.645	0.00952
5/1/04	2100	20.77	758	0	1.919	157.9	11.7	82.7	0	0
5/1/04	2200	20.27	759	0	2.063	151.8	9.48	84.3	0	0
5/1/04	2300	19.66	758	0	0.926	158.5	25.82	87.3	0	0
5/1/04	2400	18.81	758	0	1.032	184.2	35.1	90.6	0	0
5/2/04	100	17.82	758	0	0.606	249.7	30.67	93.5	0	0
5/2/04	200	17.96	757	0	0.27	256.7	31.1	93	0	0
5/2/04	300	18.74	756	0	1.312	168.9	38.31	85.1	0	0
5/2/04	400	19.94	756	0	3.405	202.4	16.89	79	0	0
5/2/04	500	19.69	756	0	2.868	202.4	15.36	81	0	0
5/2/04	600	18.93	756	0.3	1.255	218.5	19.15	89.8	0.247	0.00089
5/2/04	700	17.66	756	2.6	3.011	211	21.33	94.5	6.4	0.02304
5/2/04	800	17.37	756	0.4	3.368	202.3	15.44	93.9	54.13	0.19488
5/2/04	900	17.25	757	1.7	3.261	219.3	22.44	91.2	55.48	0.19973
5/2/04	1000	13.64	757	1.4	3.333	267.3	26.25	93	92.2	0.33184
5/2/04	1100	12.59	757	0.8	3.355	263.2	16.91	92.6	128.7	0.46318
5/2/04	1200	12.48	758	0	3.438	266.7	14.82	90.1	140	0.50383
5/2/04	1300	12.33	759	0.1	3.511	259.5	14.97	88.4	149.3	0.53736
5/2/04	1400	11.9	760	0	4.12	267.2	17.82	85.2	210.4	0.75762
5/2/04	1500	12.09	760	0	2.864	272.4	23.74	80.4	206.7	0.74403
5/2/04	1600	12.38	760	0	3.613	268.7	19.53	79.7	178.3	0.64181
5/2/04	1700	11.51	761	0	3.266	265.2	23.42	81	70.1	0.25236
5/2/04	1800	11.01	761	0	1.941	284.7	30.2	82.1	55.55	0.19997
5/2/04	1900	10.78	761	0	2.443	356.3	31.6	79.4	21.6	0.07776
5/2/04	2000	10.54	762	0	2.27	20.56	25.86	78.9	4.051	0.01458
5/2/04	2100	9.36	762	0	1.657	52.78	19.24	89.4	0.001	0
5/2/04	2200	8.32	763	0	1.382	36.24	25.49	89.8	0	0
5/2/04	2300	7.27	763	0	1.074	50.5	15.56	93.2	0	0
5/2/04	2400	6.48	762	0	0.671	32.21	30.72	94.4	0.002	0.00001
5/3/04	100	5.981	763	0	0.637	27.71	25.68	94.6	0.01	0.00003
5/3/04	200	5.467	762	0	0.53	7.51	30.85	95.1	0.017	0.00006
5/3/04	300	4.989	762	0	0.444	357.6	29.34	95.5	0.02	0.00007
5/3/04	400	4.519	762	0	0.832	15.01	28.1	96	0.016	0.00006
5/3/04	500	3.852	761	0	1.212	32.45	21.15	96.8	0.014	0.00005



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/3/04	600	3.74	761	0	1.222	34.6	23.73	97.3	5.085	0.01831
5/3/04	700	4.703	761	0	1.592	19.19	23.18	94.1	136.4	0.49094
5/3/04	800	6.439	761	0	2.447	358.3	28	88.9	220.3	0.79312
5/3/04	900	7.2	762	0	1.856	12.14	25.75	83.8	146	0.52574
5/3/04	1000	8.05	763	0	2.277	24.26	17.59	79.3	227.2	0.81795
5/3/04	1100	9.37	763	0	2.855	13.02	24.75	69.98	408.5	1.4706
5/3/04	1200	9.98	764	0	2.629	359.6	33.92	62.56	325.8	1.173
5/3/04	1300	10.13	764	0	1.734	319.2	33.21	65.29	568	2.0449
5/3/04	1400	11.81	764	0	3.408	14.91	33.63	56.87	685.9	2.4693
5/3/04	1500	12.11	764	0	2.471	348.6	37.41	52.3	304.6	1.0966
5/3/04	1600	11.88	764	0	1.384	347.1	43.12	56.47	104.6	0.37639
5/3/04	1700	11.52	764	0	2.119	26.45	20.81	59.11	111.3	0.40051
5/3/04	1800	11.68	764	0	1.061	352.1	54.12	57.91	144.1	0.51894
5/3/04	1900	11.27	764	0	1.029	291.8	28.51	77	77.7	0.27971
5/3/04	2000	8.91	765	0	0.649	291	40.3	83.5	2.435	0.00877
5/3/04	2100	7.56	765	0	0.695	355.9	37.05	88.5	0	0
5/3/04	2200	6.341	765	0	0.608	288.4	49.87	92.7	0.003	0.00001
5/3/04	2300	5.63	765	0	0.576	326.7	47.84	93.1	0.006	0.00002
5/3/04	2400	4.994	765	0	0.693	350.6	43.31	93.8	0.014	0.00005
5/4/04	100	4.287	765	0	0.677	1.841	27.32	94.8	0.018	0.00006
5/4/04	200	3.994	765	0	0.332	332	55.28	95.7	0.02	0.00007
5/4/04	300	3.835	765	0	0.358	305.1	41.44	96.7	0.023	0.00008
5/4/04	400	3.576	765	0	0.445	64.72	26.61	97.3	0.022	0.00008
5/4/04	500	3.309	765	0	0.908	66.84	19.85	97.7	0.022	0.00008
5/4/04	600	2.91	766	0	0.724	29.62	61.16	98	4.94	0.01778
5/4/04	700	3.274	767	0	0.638	8.47	38.1	97.6	125.1	0.4504
5/4/04	800	5.473	767	0	0.658	337.4	62.83	96.7	312.9	1.1265
5/4/04	900	7.71	767	0	1.438	243.1	25.95	84.6	498.4	1.7944
5/4/04	1000	10.62	767	0	0.98	244.1	50.55	67.63	643.2	2.3156
5/4/04	1100	12.81	767	0	1.56	123.5	60.96	60.34	762	2.7437
5/4/04	1200	13.64	766	0	2.556	251.6	50.77	49.05	779	2.8045
5/4/04	1300	14.67	766	0	2.253	205.7	61.73	46.21	827	2.9764
5/4/04	1400	15.82	765	0	1.93	238.1	62.86	46.54	785	2.8264
5/4/04	1500	16.68	765	0	2.425	220.9	52.77	45.64	688	2.4769
5/4/04	1600	17.37	764	0	2.931	223.1	33.57	42.36	565.9	2.0373
5/4/04	1700	17.96	763	0	2.773	216.1	27.94	39.63	416.1	1.498
5/4/04	1800	17.92	763	0	2.988	225.4	17.58	43.97	251	0.90354
5/4/04	1900	17.49	762	0	2.075	190.4	25.52	45.41	84.1	0.30284
5/4/04	2000	15.17	762	0	0.954	223.6	34.95	64.12	3.198	0.01151
5/4/04	2100	12.88	763	0	0.817	278.3	27.96	69.63	0.003	0.00001
5/4/04	2200	11.63	763	0	0.638	284.1	53.69	75.8	0.002	0.00001
5/4/04	2300	10.38	763	0	0.502	283.9	37.46	81.8	0	0
5/4/04	2400	9.47	763	0	1.2	241.4	9.43	89.2	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/5/04	100	8.87	763	0	1.504	237.1	7.54	88.8	0	0
5/5/04	200	9.01	763	0	1.261	246.7	14.88	86.5	0	0
5/5/04	300	8.71	763	0	0.538	304.5	37.07	87.6	0	0
5/5/04	400	8.58	763	0	0.534	350	26.78	88.5	0	0
5/5/04	500	9.22	763	0	0.677	247.1	25.23	87.7	0	0
5/5/04	600	10	763	0	0.331	261.7	32.73	84.3	1.425	0.00513
5/5/04	700	11.16	764	0	0.865	245.5	21.99	77.6	24.77	0.08919
5/5/04	800	11.63	763	1.1	1.194	254.8	47.65	89.5	30.24	0.10888
5/5/04	900	11.09	764	0.2	0.778	248.3	80.4	92	136.7	0.49199
5/5/04	1000	14.66	764	0	1.651	234.4	23.2	76	627.4	2.2587
5/5/04	1100	18.2	764	0	2.481	222.6	25.85	66.5	721	2.594
5/5/04	1200	20.2	763	0	2.893	220.4	24.15	56.85	774	2.7867
5/5/04	1300	21.86	763	0	2.774	222.1	26.98	58.85	795	2.862
5/5/04	1400	23.45	762	0	2.961	228.5	30.09	51.21	754	2.716
5/5/04	1500	24.5	762	0	3.25	224.8	20.68	49.47	627.2	2.258
5/5/04	1600	24.98	762	0	2.207	208.6	26.68	51.44	334.8	1.2052
5/5/04	1700	24.78	762	0	1.323	246.6	31.65	60.29	116.6	0.41969
5/5/04	1800	24.27	762	0	1.112	251.4	36.89	60.56	115.9	0.4173
5/5/04	1900	23.87	762	0	1.021	276.5	27.65	71.8	79.3	0.28562
5/5/04	2000	20.92	762	0	0.988	261.6	21.04	80.4	3.242	0.01167
5/5/04	2100	19.26	762	0	0.727	308.3	50.08	86.8	0	0
5/5/04	2200	17.92	763	0	0.597	270.9	24.12	91	0	0
5/5/04	2300	16.79	763	0	0.853	255.6	44.02	93.8	0	0
5/5/04	2400	16.14	763	0	0.745	266.5	26.23	94.2	0.001	0
5/6/04	100	15.38	763	0	0.824	262.5	24.89	94.6	0.005	0.00002
5/6/04	200	14.54	763	0	0.635	260.1	16.19	95.2	0.009	0.00003
5/6/04	300	14.18	763	0	0.393	345.3	28.21	94.9	0.01	0.00003
5/6/04	400	13.47	764	0	0.512	277.8	22.91	95.1	0.016	0.00006
5/6/04	500	12.81	764	0	0.693	251.4	18.13	96	0.014	0.00005
5/6/04	600	12.55	764	0	1.234	249.3	11.82	95.7	5.557	0.02001
5/6/04	700	13.21	765	0	1.421	225.6	14.93	93.6	124.6	0.44866
5/6/04	800	16.52	765	0	1.281	219.5	14.8	81.4	312.2	1.1241
5/6/04	900	19.92	766	0	1.809	232.5	22.08	68.27	494.2	1.779
5/6/04	1000	22.18	766	0	2.255	226.7	22.37	56.99	634.7	2.2851
5/6/04	1100	23.79	766	0	2.154	213.5	30.24	50.14	735	2.6467
5/6/04	1200	25.05	766	0	2.816	212.4	25.71	48.4	805	2.8988
5/6/04	1300	25.91	766	0	3.596	224.3	28.85	41.39	819	2.9482
5/6/04	1400	26.56	765	0	4.023	223.4	21.42	38.72	771	2.7761
5/6/04	1500	27.16	765	0	3.8	222.2	19.19	38.68	690.3	2.485
5/6/04	1600	27.55	764	0	3.987	222.1	20.15	38.68	571.8	2.0583
5/6/04	1700	27.85	764	0	3.403	221.4	19.91	43.82	425.1	1.5303
5/6/04	1800	27.79	764	0	2.494	211.8	20.6	42.96	255.8	0.92102
5/6/04	1900	26.99	764	0	1.717	208.8	15.97	50.51	92.8	0.33405

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/6/04	2000	23.62	764	0	0.927	235.7	12.34	65.13	4.244	0.01528
5/6/04	2100	20.94	764	0	0.815	277.3	44.41	72.5	0	0
5/6/04	2200	18.97	765	0	0.99	256.5	12.43	80.9	0	0
5/6/04	2300	17.49	766	0	1.059	251.9	19.18	89	0	0
5/6/04	2400	16.28	766	0	1.347	235.4	11.99	91.1	0.005	0.00002
5/7/04	100	15.65	766	0	1.25	242.6	6.011	91.5	0.006	0.00002
5/7/04	200	14.65	766	0	1.049	242.6	13.62	92.8	0.012	0.00004
5/7/04	300	14.17	766	0	0.132	328.1	15.42	92.7	0.013	0.00005
5/7/04	400	13.57	766	0	0.364	346.8	31.74	92.9	0.013	0.00005
5/7/04	500	12.93	766	0	0.404	350.2	38.23	93.6	0.008	0.00003
5/7/04	600	12.29	766	0	1.034	243.5	10.98	95.1	6.834	0.0246
5/7/04	700	13.39	767	0	0.494	238.7	9.97	90	129.9	0.46751
5/7/04	800	17.03	767	0	0.786	223	14.45	74.2	322.4	1.1608
5/7/04	900	20.03	768	0	1.643	239.3	18.69	63.83	510.1	1.8362
5/7/04	1000	22.75	768	0	1.742	216.8	26.58	52.25	653.9	2.3539
5/7/04	1100	24.98	768	0	2.265	253.4	36.01	45.9	752	2.7086
5/7/04	1200	26.18	767	0	3.331	270.7	26.13	43.15	805	2.897
5/7/04	1300	27.52	767	0	2.856	282.6	45.71	41.22	815	2.9356
5/7/04	1400	28.39	766	0	2.205	223.2	35.2	38.18	785	2.8261
5/7/04	1500	28.75	766	0	3.213	250.3	22.11	33.41	705	2.5373
5/7/04	1600	29.24	766	0	2.301	263.9	37.82	34.17	566	2.0375
5/7/04	1700	29.27	765	0	2.707	257.6	21.32	30.67	445.3	1.6029
5/7/04	1800	29.07	765	0	2.17	257.6	19.62	33.88	273.5	0.98472
5/7/04	1900	27.44	765	0	1.256	267.5	19.12	49.57	97.5	0.35091
5/7/04	2000	23.8	765	0	1.049	264.1	16.25	62.23	4.369	0.01573
5/7/04	2100	21.23	765	0	0.64	273.7	15.53	72.1	0	0
5/7/04	2200	19.35	765	0	0.539	276.1	23.68	79.7	0	0
5/7/04	2300	18.14	766	0	0.529	325.4	49.81	81.6	0	0
5/7/04	2400	17.11	766	0	0.704	12.02	16.13	84.9	0	0
5/8/04	100	16.13	766	0	0.618	4.294	19.42	87.2	0.002	0.00001
5/8/04	200	15.16	766	0	0.568	303	52.67	92.9	0.004	0.00001
5/8/04	300	14.23	766	0	0.332	309.5	44.27	92.1	0.009	0.00003
5/8/04	400	13.62	766	0	0.366	341.7	41.11	93.1	0.015	0.00005
5/8/04	500	13.12	766	0	0.414	6.014	21.63	93.5	0.016	0.00006
5/8/04	600	12.88	766	0	0.462	1.142	16.24	93.7	7.51	0.02702
5/8/04	700	14.1	767	0	0.671	8.1	17.7	88	127.5	0.45911
5/8/04	800	17.47	767	0	0.63	6.182	22.12	78.4	318.6	1.147
5/8/04	900	21.11	767	0	0.513	346	30.29	65.27	504.7	1.817
5/8/04	1000	23.64	767	0	0.711	348.5	62.21	60.06	670.6	2.4142
5/8/04	1100	26.04	767	0	0.861	224.5	86.5	50.6	778	2.8015
5/8/04	1200	27.15	767	0	1.555	302.8	56.05	39.48	818	2.9455
5/8/04	1300	27.82	766	0	1.759	237	52.94	34.11	838	3.0165
5/8/04	1400	28.48	766	0	1.718	272.8	98.3	33.24	793	2.8566

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/8/04	1500	29.34	766	0	1.476	275.5	68.33	32.94	725	2.6108
5/8/04	1600	29.8	765	0	2.026	248	41.49	25.03	626.7	2.256
5/8/04	1700	29.88	764	0	1.784	220	42.82	32.14	461.2	1.6602
5/8/04	1800	29.58	764	0	1.567	196.6	29.53	35.18	274.4	0.98796
5/8/04	1900	28.47	764	0	1.556	175.7	19.39	45.19	94	0.33847
5/8/04	2000	24.95	764	0	0.751	272.1	79.4	59.52	3.619	0.01303
5/8/04	2100	22.49	764	0	0.439	309.2	33.12	63.73	0	0
5/8/04	2200	21.45	765	0	1.146	203.7	56.1	70.6	0	0
5/8/04	2300	19.09	765	0	1.286	247.4	20.55	76.7	0	0
5/8/04	2400	18.1	765	0	0.462	275.4	19.89	82.9	0	0
5/9/04	100	16.94	765	0	0.33	328.5	34.39	83.6	0	0
5/9/04	200	16.17	764	0	0.679	16.91	19.77	86.9	0	0
5/9/04	300	15.48	764	0	0.632	26.58	22.25	86.2	0.002	0.00001
5/9/04	400	15.36	765	0	0.731	18.44	28.03	87.4	0.002	0.00001
5/9/04	500	15.11	765	0	0.613	18.47	22.21	89.2	0.004	0.00001
5/9/04	600	14.81	765	0	0.593	9.52	39.17	89.9	6.926	0.02493
5/9/04	700	15.54	766	0	0.747	36.44	29.85	81.9	105.8	0.381
5/9/04	800	18.47	766	0	0.798	21.25	43.59	70.2	263.8	0.94971
5/9/04	900	21.09	766	0	1.678	7.69	31.1	66.2	498.2	1.7935
5/9/04	1000	23.65	766	0	1.113	359	37.99	56.65	649.1	2.3366
5/9/04	1100	25.62	766	0	0.899	326.1	53.74	53.3	753	2.7104
5/9/04	1200	27.4	766	0	0.967	6.828	56.95	48.06	829	2.9842
5/9/04	1300	28.15	765	0	1.37	338.5	85.1	42.82	832	2.9961
5/9/04	1400	29.26	764	0	1.187	114.4	56.56	32.6	799	2.8769
5/9/04	1500	29.81	764	0	1.643	170.3	52.86	35.44	727	2.6168
5/9/04	1600	29.88	763	0	1.711	241.4	49.86	43.62	599.1	2.1569
5/9/04	1700	29.9	763	0	2.216	172.5	45.35	40.88	413.9	1.4901
5/9/04	1800	27.27	763	0	3.361	190.4	24.1	43.52	233.8	0.84167
5/9/04	1900	25.36	763	0	2.272	195.8	14.5	52.18	59.84	0.21543
5/9/04	2000	23.28	763	0	1.252	187.4	18.23	60.42	3.751	0.0135
5/9/04	2100	21.56	764	0	1.018	251.3	27.63	68.7	0	0
5/9/04	2200	20.42	764	0	0.863	282.9	67.51	73.9	0.001	0
5/9/04	2300	19.18	765	0	0.512	286.1	39.16	79.4	0.001	0
5/9/04	2400	18.08	765	0	0.746	261.6	24.52	83.6	0	0
5/10/04	100	17.38	765	0	0.709	275.8	31.49	84.7	0.001	0
5/10/04	200	16.99	764	0	0.248	317.3	30.43	86.9	0	0
5/10/04	300	16.34	764	0	0.486	355.8	19.6	89.1	0	0
5/10/04	400	15.75	764	0	0.512	303.3	54.7	92	0	0
5/10/04	500	15.43	764	0	0.357	272.5	25.55	92.1	0	0
5/10/04	600	15.75	765	0	0.624	295.5	54.15	89.5	9.31	0.03352
5/10/04	700	16.84	765	0	1.028	25.75	24.64	85.5	67.11	0.24159
5/10/04	800	19.14	766	0	0.681	1.454	34.74	80.7	131.6	0.47366
5/10/04	900	20.19	766	0	0.578	10.17	34.71	71.7	180.3	0.64891

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/10/04	1000	23.33	766	0	0.841	87.6	60.31	63.19	638.3	2.298
5/10/04	1100	24.54	766	0	2.105	192.7	33.99	57.38	642.5	2.3129
5/10/04	1200	24.35	766	0	2.619	214.3	24.75	62.39	434.3	1.5635
5/10/04	1300	25.26	766	0	1.951	219.9	33.66	57.45	750	2.6988
5/10/04	1400	26.73	765	0	2.199	236.6	39.34	57.3	749	2.6969
5/10/04	1500	27.31	765	0	1.66	273.7	40.82	54.46	634.9	2.2856
5/10/04	1600	25.91	764	0	3.003	214.7	51.96	65.55	179.4	0.64582
5/10/04	1700	20.84	764	0	3.27	217.3	20.9	84.7	15.38	0.05537
5/10/04	1800	18.87	765	1	1.026	318.3	93.7	90.7	20.73	0.07462
5/10/04	1900	19.12	764	0	2.111	136.3	38.29	87.2	30.43	0.10954
5/10/04	2000	18.48	764	0	0.913	281.6	78.1	92.8	1.932	0.00696
5/10/04	2100	18.19	765	0	0.47	334.1	47.11	93.7	0	0
5/10/04	2200	18.04	765	0	0.869	7.47	23.2	94.5	0	0
5/10/04	2300	17.8	766	0	0.45	330.9	32.23	95	0	0
5/10/04	2400	17.78	766	0	0.552	313.5	46.9	94.9	0	0
5/11/04	100	17.57	766	0	0.888	353.1	69.51	95.4	0	0
5/11/04	200	17.08	766	0	0.712	35.56	23.85	95.7	0	0
5/11/04	300	16.54	765	0	0.676	22.12	38.92	96.1	0	0
5/11/04	400	15.98	765	0	0.454	342.8	48.77	96.2	0	0
5/11/04	500	15.53	765	0	0.701	17.6	26.08	96.5	0	0
5/11/04	600	15.32	765	0.1	0.51	0.634	23.47	96.5	8.54	0.03073
5/11/04	700	15.94	766	0	0.434	12.37	39.92	95.3	99.5	0.35838
5/11/04	800	18.57	767	0	0.646	46.48	51.22	83.4	267.8	0.9641
5/11/04	900	20.96	767	0	0.914	73.7	42.67	74.5	469.8	1.6913
5/11/04	1000	22.48	767	0	1.382	147.1	54.96	74.9	560	2.0161
5/11/04	1100	23.41	767	0	1.336	224.8	44.28	66.77	639.9	2.3035
5/11/04	1200	24.87	767	0	1.986	225.1	46.32	62.32	764	2.7511
5/11/04	1300	25.4	766	0	2.727	229.4	38.95	64.15	778	2.8021
5/11/04	1400	25.75	765	0	2.4	279.6	46.88	60.48	728	2.6195
5/11/04	1500	26.56	765	0	1.702	270	48.74	56.97	648.9	2.3361
5/11/04	1600	25.28	764	0	3.354	210.4	26.74	68.66	277.2	0.99799
5/11/04	1700	22.85	765	0	3.192	191.8	14.92	65.9	135.2	0.48684
5/11/04	1800	21.53	765	0	2.315	215.2	14.55	68.07	87.7	0.31563
5/11/04	1900	21.3	764	0	1.162	208.8	26.53	67.6	62.61	0.22541
5/11/04	2000	20.92	765	0	1.074	256.1	41.18	74.8	5.507	0.01983
5/11/04	2100	19.94	765	0	0.938	236.1	23.52	80.4	0.001	0
5/11/04	2200	18.93	765	0	1.051	23.4	32.77	83.6	0	0
5/11/04	2300	18.05	766	0	0.894	16.5	30.41	87.5	0	0
5/11/04	2400	17.23	766	0	0.81	343.9	64.68	91.4	0	0
5/12/04	100	16.64	766	0	0.855	295.2	67.75	92.5	0	0
5/12/04	200	16.62	766	0	0.592	19.7	28.45	91.6	0	0
5/12/04	300	16.21	765	0	0.593	312	62.14	93.4	0	0
5/12/04	400	15.78	765	0	1.027	35.45	15.89	93.3	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/12/04	500	15.5	765	0	0.475	1.275	24.19	93.7	0	0
5/12/04	600	15.41	766	0	0.474	314.7	44.98	93.4	10.46	0.03765
5/12/04	700	16.33	766	0	0.88	1.917	21.97	90.9	66.46	0.23926
5/12/04	800	18.28	767	0	0.657	358.9	47.82	80.2	200.8	0.72301
5/12/04	900	22.04	767	0	0.969	110.2	58.01	69.37	491.8	1.7704
5/12/04	1000	23.06	767	0	1.642	207	39.72	65.4	562.8	2.0262
5/12/04	1100	24.53	766	0	2.111	173.7	49.47	62.23	700	2.5205
5/12/04	1200	25.52	766	0	1.787	138.5	42.28	56.25	680.5	2.4499
5/12/04	1300	26.31	766	0	2.519	204.2	54.04	56.24	781	2.8101
5/12/04	1400	26.94	765	0	2.114	192.1	42.68	52.43	646.2	2.3263
5/12/04	1500	27.04	764	0	2.289	185.2	34.38	58.94	438	1.5769
5/12/04	1600	23.9	764	0	2.834	233.1	19.89	66.3	309	1.1124
5/12/04	1700	25.67	764	0	2.199	242.6	29.7	61.63	386.3	1.3905
5/12/04	1800	25.8	764	0	2.026	258.9	25.41	62.06	251	0.90373
5/12/04	1900	25.17	763	0	1.104	271	25.95	71.1	88.8	0.31977
5/12/04	2000	23.2	764	0	0.54	309.2	33.65	76.9	3.406	0.01226
5/12/04	2100	22.08	764	0	0.583	325.8	43.18	81.7	0	0
5/12/04	2200	21.01	764	0	0.776	245.8	36.52	87.9	0	0
5/12/04	2300	20.73	765	0	1.043	208	39.61	88.5	0	0
5/12/04	2400	19.89	765	0	1.782	228.5	11.2	85.5	0	0
5/13/04	100	20.74	765	0	1.693	206.3	12.26	76.3	0.001	0
5/13/04	200	20.29	765	0	1.754	211.3	11.96	77.3	0	0
5/13/04	300	19.8	764	0	0.89	214.7	25.92	80.6	0	0
5/13/04	400	19.6	764	0	0.637	264.4	33.97	82.6	0	0
5/13/04	500	18.91	765	0	0.544	287.6	31.92	86.4	0	0
5/13/04	600	18.47	765	0	0.45	326.1	25.67	88	10.1	0.03636
5/13/04	700	18.99	765	0	0.903	1.257	26.25	81.7	103.6	0.3729
5/13/04	800	21.03	766	0	1.031	1.369	20.57	74.1	218.7	0.78716
5/13/04	900	22.47	766	0	0.83	85.6	74.4	69.44	345.4	1.2435
5/13/04	1000	23.1	766	0	1.39	234.7	40.99	72	360	1.296
5/13/04	1100	24.6	766	0	1.933	213.1	59.33	63.76	640	2.3042
5/13/04	1200	24.98	766	0	2.698	227.7	36.75	67.17	429.1	1.5448
5/13/04	1300	25.74	766	0	2.889	228.7	23.04	62.68	574.1	2.0669
5/13/04	1400	25.73	765	0	3.012	190.2	41.97	68.99	403.6	1.4531
5/13/04	1500	21.76	765	1.3	2.206	176.4	47.52	82.3	343.8	1.2378
5/13/04	1600	23.96	764	0	1.796	191.3	37.41	73.5	374.5	1.3483
5/13/04	1700	24.95	764	0	1.622	196	29.22	67.97	353.5	1.2725
5/13/04	1800	24.56	764	0	1.514	229.1	57.31	76.7	86.6	0.31175
5/13/04	1900	24.14	764	0	1.499	356.7	32.68	79.7	115.1	0.41453
5/13/04	2000	22.98	764	0	0.888	42.38	39.76	86.6	6.961	0.02506
5/13/04	2100	22.46	764	0	1.639	214.1	17.72	75.1	0	0
5/13/04	2200	21.92	765	0	1.171	200.3	21.15	78.7	0.001	0
5/13/04	2300	20.82	765	0	0.454	249	13.71	83.5	0.001	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/13/04	2400	20.09	765	0	0.487	255.7	64.24	87.7	0.002	0.00001
5/14/04	100	19.02	765	0	0.67	12.93	41.96	91.1	0.001	0
5/14/04	200	18.39	764	0	0.373	331.1	55.95	93.1	0.003	0.00001
5/14/04	300	17.89	764	0	0.631	352.4	49.61	93.8	0	0
5/14/04	400	17.31	765	0	0.783	243.7	16.92	95.4	0	0
5/14/04	500	17.29	765	0	0.607	16.69	35.02	94.8	0	0
5/14/04	600	17.09	765	0	0.529	325.6	53.28	94.7	14.17	0.05101
5/14/04	700	17.81	765	0	0.741	312.4	66.2	92.5	119.3	0.42951
5/14/04	800	20.49	766	0	0.707	296.8	74.7	80.2	315.1	1.1343
5/14/04	900	21.51	766	0	1.756	214.6	20.46	80.3	124.1	0.44687
5/14/04	1000	22.29	766	0	2.27	220.1	21.89	73.9	217.8	0.78396
5/14/04	1100	22.78	766	0	2.724	240.6	20.44	74.4	319.6	1.1505
5/14/04	1200	23.47	766	0	2.457	225.7	21.9	72.3	309.8	1.1153
5/14/04	1300	23.84	766	0	2.803	213.2	22.67	69.04	311.7	1.122
5/14/04	1400	24.16	766	0	3.763	204.1	17.23	67.9	322.8	1.1621
5/14/04	1500	23.75	766	0.1	3.173	207.1	19.18	71.3	251.7	0.90617
5/14/04	1600	25.27	765	0	3.349	201	21.58	57.35	549.9	1.9798
5/14/04	1700	26.05	765	0	3.641	193.9	24.08	55.48	442	1.591
5/14/04	1800	25.79	764	0	3.305	191.5	19.5	55.02	281.4	1.0129
5/14/04	1900	24.85	764	0	2.431	200.4	18.12	59.56	87.4	0.31471
5/14/04	2000	23.27	764	0	1.86	212.9	18.05	63.4	2.443	0.00879
5/14/04	2100	21.86	765	0	1.24	206.6	19.12	71.3	0	0
5/14/04	2200	20.42	765	0	0.869	220.3	20.62	77.3	0.002	0.00001
5/14/04	2300	18.84	765	0	0.523	268.7	27.73	84	0.003	0.00001
5/14/04	2400	17.76	765	0	0.382	336.8	22.25	87.7	0.001	0
5/15/04	100	16.88	765	0	0.334	340.8	25.44	91.4	0	0
5/15/04	200	16.39	765	0	0.405	0.893	24.2	92.2	0	0
5/15/04	300	16	765	0	0.556	17.5	21.12	92.6	0	0
5/15/04	400	15.94	765	0	0.166	319.6	30.35	93.3	0	0
5/15/04	500	15.85	765	0	0.501	357.2	25.55	93.3	0	0
5/15/04	600	15.95	765	0	0.464	359.8	30.43	93.1	6.74	0.02426
5/15/04	700	17.28	766	0	0.689	293.9	42.23	83.6	80.1	0.28847
5/15/04	800	20.72	766	0	2.129	224.1	20.79	71.7	237.9	0.85651
5/15/04	900	22.27	766	0	2.985	202	21.94	66.07	406.4	1.4631
5/15/04	1000	23.49	766	0	3.693	225.3	23.09	66.2	545	1.9619
5/15/04	1100	23.94	766	0	3.217	231.4	25.03	66.07	535.4	1.9273
5/15/04	1200	24.69	766	0	3.304	224.9	25.57	64.6	549.3	1.9775
5/15/04	1300	25.1	766	0	2.872	230.9	22.88	58.75	586.8	2.1126
5/15/04	1400	26.23	765	0	3.678	218.2	22.41	55	645.9	2.3251
5/15/04	1500	25.95	765	0	3.633	231.7	19.85	58.82	332	1.1951
5/15/04	1600	24.93	765	0	3.151	254.3	17.16	66.63	169.7	0.61107
5/15/04	1700	24.55	765	0	2.631	262.6	17.79	67.07	210.8	0.75892
5/15/04	1800	24.28	765	0	2.208	264.8	15.54	64.86	173.3	0.62376

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/15/04	1900	23.99	765	0	1.764	259.3	25.77	71.9	77.8	0.28004
5/15/04	2000	22.56	765	0	0.705	257.5	24.29	78.5	6.865	0.02471
5/15/04	2100	21.01	766	0	0.691	320.1	61.13	83.6	0.001	0
5/15/04	2200	19.84	766	0	0.445	331.5	34.25	88.5	0.002	0.00001
5/15/04	2300	18.96	766	0	0.597	7.44	38.4	90.4	0.002	0.00001
5/15/04	2400	18.16	766	0	0.8	3.974	21.56	93	0.002	0.00001
5/16/04	100	17.85	766	0	0.982	18.5	11	93.7	0.001	0
5/16/04	200	18.1	766	0	0.851	22.95	16.06	92.9	0.002	0.00001
5/16/04	300	18.18	766	0	0.691	37.23	29.6	92.4	0.003	0.00001
5/16/04	400	17.84	767	0	0.699	39.64	24.55	93.4	0.001	0
5/16/04	500	17.16	767	0	0.511	11.43	38	94.5	0	0
5/16/04	600	16.93	767	0	0.428	18.74	33.15	94.7	12.22	0.044
5/16/04	700	17.87	767	0	0.696	35.66	23.26	89.8	131.1	0.47188
5/16/04	800	19.64	768	0	1.174	65.62	48.7	82.4	211.7	0.76211
5/16/04	900	21.68	768	0	1.428	182.9	53.48	67.74	516.3	1.8588
5/16/04	1000	23.27	768	0	2.093	213.2	35.46	65.63	612.8	2.2061
5/16/04	1100	24.23	768	0	2.689	265.5	33.4	65	556.5	2.0036
5/16/04	1200	24.94	768	0	3.12	221.1	26.07	62.02	768	2.7649
5/16/04	1300	25.78	768	0	2.959	248.8	34.89	64.85	702	2.5261
5/16/04	1400	25.78	767	0	2.38	228.6	63.15	55.14	534.9	1.9257
5/16/04	1500	26.49	767	0	3.009	226	23.31	53.57	560	2.0159
5/16/04	1600	26.28	766	0	3.043	242.6	25.77	55.71	506.5	1.8233
5/16/04	1700	26.18	766	0	2.409	241.2	33.95	55.64	347	1.2492
5/16/04	1800	24.39	766	0	2.85	191.2	21.4	64.56	241.7	0.86995
5/16/04	1900	23.1	766	0	1.127	265.6	57.79	67.7	48.65	0.17514
5/16/04	2000	22	766	0	1.229	192.7	43.79	74.3	5.669	0.02041
5/16/04	2100	21.19	767	0	0.617	220.4	51.29	76.8	0	0
5/16/04	2200	20.73	767	0	0.638	7.65	40.38	79.7	0.002	0.00001
5/16/04	2300	20.42	768	0	0.642	21.62	45.1	82	0.002	0.00001
5/16/04	2400	19.81	768	0	0.602	347.6	60.17	87.4	0.002	0.00001
5/17/04	100	18.53	768	0	0.707	275.4	44.56	90.8	0.001	0
5/17/04	200	17.84	768	0	0.579	351.2	25.64	92.7	0	0
5/17/04	300	17.49	767	0	0.625	10.2	20.04	92.7	0	0
5/17/04	400	17.13	767	0	0.469	354	32.46	93.7	0	0
5/17/04	500	16.75	768	0	0.734	6.04	35.02	93.9	0	0
5/17/04	600	16.61	768	0	0.699	28.57	35.54	93.9	6.941	0.02499
5/17/04	700	17.01	769	0	0.699	0.705	18.85	92.7	63.1	0.22716
5/17/04	800	18.45	769	0	0.77	24.72	37.12	87.6	144.9	0.52156
5/17/04	900	20.67	769	0	0.701	24.33	68.39	74.5	305.8	1.1007
5/17/04	1000	23.3	769	0	1.903	183.9	42.67	66.53	667.1	2.4015
5/17/04	1100	24.61	769	0	3.073	193.5	23.85	64.8	710	2.5548
5/17/04	1200	25.73	769	0	2.452	225	33.2	61.95	628.5	2.2625
5/17/04	1300	26.65	769	0	3.155	218.7	28.55	59.67	704	2.5345



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/17/04	1400	27.62	768	0	3.776	215.3	31.24	51.59	712	2.5615
5/17/04	1500	24.88	767	0	2.309	205.4	63	66.26	185.7	0.66844
5/17/04	1600	26.44	767	0	2.474	191.9	54.83	57.49	427.1	1.5375
5/17/04	1700	26.76	767	0	2.466	177.4	23.37	61.22	398.8	1.4358
5/17/04	1800	26.25	766	0	2.706	190.9	19.4	57.85	247.7	0.89168
5/17/04	1900	25.61	766	0	1.685	173.4	23.71	63.36	99.1	0.35668
5/17/04	2000	23.94	766	0	1.414	204.8	23.5	72.8	7.08	0.0255
5/17/04	2100	22.09	767	0	1.207	229.4	13.89	79.4	0	0
5/17/04	2200	20.75	767	0	1.167	246	12.47	84.9	0.001	0
5/17/04	2300	19.74	768	0	0.463	320.4	34.98	89	0.002	0.00001
5/17/04	2400	18.96	768	0	0.513	320.8	40.74	90.7	0.002	0.00001
5/18/04	100	18.29	768	0	0.353	290.3	19.31	92.6	0	0
5/18/04	200	17.85	768	0	0.745	244	17.25	94.2	0.004	0.00001
5/18/04	300	17.5	767	0	0.296	307.1	40.17	93.8	0.002	0.00001
5/18/04	400	17.19	767	0	0.438	291.7	39.3	94	0.001	0
5/18/04	500	16.89	767	0	0.586	301.3	55.28	94.5	0	0
5/18/04	600	16.87	767	0	0.566	333.3	41.34	94.3	14.13	0.05089
5/18/04	700	17.77	768	0	0.463	291.2	43.8	90.9	90.8	0.32671
5/18/04	800	19.39	768	0	0.873	283.4	76.7	89	155.2	0.55888
5/18/04	900	21.19	768	0	1.556	229.5	25.48	77.6	378.4	1.3622
5/18/04	1000	23.23	768	0	2.233	227.5	23.44	69.5	546.1	1.9658
5/18/04	1100	24.36	768	0	2.53	225.7	22.57	69.4	467.8	1.6841
5/18/04	1200	25.88	768	0	3.037	206.5	27.64	59.75	701	2.5239
5/18/04	1300	26.72	767	0	3.58	225.8	23.85	56.24	677.3	2.4382
5/18/04	1400	27.62	766	0	3.808	235	25.43	49.42	855	3.0795
5/18/04	1500	27.73	766	0	3.302	220.4	25.84	52.86	467.3	1.6824
5/18/04	1600	25.72	765	0	3.466	190.7	20.76	68.93	239.9	0.86351
5/18/04	1700	23.77	765	0	3.285	205.5	20.12	71	105.9	0.38116
5/18/04	1800	23.02	765	0	1.643	219.5	23.27	75	53.03	0.19092
5/18/04	1900	22.77	765	0	1.522	256.4	21.74	76.1	24.86	0.08949
5/18/04	2000	22.1	765	0	1.194	247.1	28.75	80.5	5.77	0.02077
5/18/04	2100	21.67	766	0	1.647	166.1	16.21	82.8	0.001	0
5/18/04	2200	21.15	766	0	1.45	213.7	22.4	86.4	0.005	0.00002
5/18/04	2300	20.72	766	0	1.496	223.5	14.01	87	0.004	0.00001
5/18/04	2400	20.62	766	0	1.556	216.8	30.38	88	0.007	0.00003
5/19/04	100	20.16	766	0	1.106	227.4	23.62	88.7	0.006	0.00002
5/19/04	200	19.43	765	0	1.253	220.3	16.13	91	0.004	0.00001
5/19/04	300	18.72	765	0	1.101	248.6	33.08	92.3	0.001	0
5/19/04	400	18.19	765	0	1.272	219.8	27.35	93.8	0.001	0
5/19/04	500	18.21	765	0	1.036	226.3	22.19	93.3	0	0
5/19/04	600	18.18	765	0	0.824	231.4	28.21	93.2	9.53	0.03432
5/19/04	700	18.74	766	0	1.422	218.9	19.48	90.3	116.4	0.419
5/19/04	800	20.26	766	0	2.224	227.5	17.55	82	274.4	0.98788

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/19/04	900	21.93	766	0	2.256	225.3	27.87	75.9	429.6	1.5465
5/19/04	1000	23.11	767	0	2.234	220.6	26.1	72.7	481.2	1.7323
5/19/04	1100	24.29	766	0	1.9	232.3	35.01	69.6	656.3	2.3628
5/19/04	1200	25.58	766	0	2.494	235.1	32.07	65.89	770	2.772
5/19/04	1300	26.46	766	0	2.529	212.6	28.66	57.23	711	2.5601
5/19/04	1400	27.41	765	0	2.822	232.4	32.3	55.23	658.6	2.371
5/19/04	1500	28.24	764	0	2.973	225.6	32.39	51.29	717	2.5816
5/19/04	1600	28.25	764	0	3.255	237	29.54	53.03	520	1.8718
5/19/04	1700	28.29	764	0	2.468	228.2	27.9	53.8	372.7	1.3417
5/19/04	1800	27.54	764	0	2.384	257.2	19.76	56.14	192.2	0.69188
5/19/04	1900	26.6	764	0	1.311	226.3	19.23	65.1	61.87	0.22272
5/19/04	2000	24.8	764	0	0.971	248.4	19.96	71.2	6.252	0.02251
5/19/04	2100	23.44	764	0	0.964	262.6	17.67	77.7	0	0
5/19/04	2200	22.39	765	0	0.978	252	35.02	79.9	0.001	0
5/19/04	2300	22	765	0	0.687	290.3	47.36	82.4	0.002	0.00001
5/19/04	2400	20.88	765	0	1.029	249.4	10.88	89.3	0.007	0.00003
5/20/04	100	20	765	0	0.958	253.2	13.97	90.6	0.009	0.00003
5/20/04	200	19.34	765	0	0.869	250.2	17.93	92.6	0.004	0.00002
5/20/04	300	18.94	765	0	0.709	267.3	17.95	92.8	0.006	0.00002
5/20/04	400	18.5	765	0	1.116	247.9	11.57	94.2	0.002	0.00001
5/20/04	500	18.28	765	0	0.422	287.3	27.04	93.5	0.001	0
5/20/04	600	18.12	766	0	0.567	275	25.03	93.6	12.7	0.04573
5/20/04	700	18.91	766	0	0.34	237.6	16.88	89.9	100	0.35983
5/20/04	800	21.14	767	0	1.458	223.9	18.36	82	287.7	1.0356
5/20/04	900	23.34	767	0	2.509	229.3	22.8	72.9	502.4	1.8086
5/20/04	1000	25.11	767	0	2.473	213.8	28.11	65.33	650.2	2.3406
5/20/04	1100	26.67	767	0	2.717	225.9	34.06	59.54	687.5	2.4752
5/20/04	1200	27.74	767	0	2.736	224.4	27.15	54.9	743	2.6751
5/20/04	1300	28.81	767	0	2.557	223.7	38.39	49.59	784	2.824
5/20/04	1400	29.3	766	0	3.071	242	27.85	48.26	713	2.5655
5/20/04	1500	29.69	766	0	3.379	219.8	27.32	50.03	632.2	2.2758
5/20/04	1600	30.12	765	0	3.592	229.5	20.72	48.52	579.3	2.0854
5/20/04	1700	30.1	765	0	3.647	228	21.17	46.22	433.8	1.5616
5/20/04	1800	29.82	765	0	3.439	237.9	21.71	49.92	276.5	0.99531
5/20/04	1900	29.11	765	0	2.072	223.6	15.54	55.9	107.2	0.38581
5/20/04	2000	27.27	765	0	0.988	228	15.44	65.13	8.98	0.03235
5/20/04	2100	25.03	765	0	1.213	245.2	8.69	74.1	0	0
5/20/04	2200	23.23	765	0	1.072	251.8	16.56	82.1	0.002	0.00001
5/20/04	2300	22.23	766	0	1.039	251.6	18.27	83.7	0.007	0.00002
5/20/04	2400	21.29	766	0	1.266	240.4	10.35	88.4	0.01	0.00004
5/21/04	100	20.48	765	0	1.467	238.7	7.07	91	0.009	0.00003
5/21/04	200	20.2	765	0	0.821	268.3	26.79	90.6	0.004	0.00001
5/21/04	300	19.88	765	0	0.388	340.1	45.96	90.8	0.002	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/21/04	400	19.48	765	0	0.578	265.9	39.09	92.8	0.003	0.00001
5/21/04	500	18.95	765	0	0.832	248.2	14.86	93.9	0.004	0.00001
5/21/04	600	18.69	765	0	1.491	237.3	14.73	93.4	12.61	0.04539
5/21/04	700	20.02	766	0	1.079	235.6	14.62	88.1	120.7	0.43434
5/21/04	800	22.36	766	0	1.537	234.9	18.23	76.8	307	1.1052
5/21/04	900	25.03	766	0	1.871	221.9	24.04	69.3	493.3	1.7759
5/21/04	1000	26.97	766	0	2.499	216.6	22.27	59.98	660.2	2.3768
5/21/04	1100	27.86	766	0	2.577	253.4	31.36	51.46	670.5	2.4138
5/21/04	1200	28.89	766	0	3.408	242.9	26.94	45.59	832	2.9938
5/21/04	1300	29.71	765	0	3.438	232	36.58	35.47	836	3.0106
5/21/04	1400	30.55	765	0	3.613	231.1	24.99	39.45	795	2.8611
5/21/04	1500	30.79	764	0	2.964	274.4	36.33	36.81	703	2.53
5/21/04	1600	31.05	764	0	3.144	252.2	29.14	39.55	586.2	2.1103
5/21/04	1700	31.05	763	0	2.409	247.6	37.33	41.78	441.9	1.5907
5/21/04	1800	30.5	763	0	2.871	252.4	22.68	49.46	280.2	1.0086
5/21/04	1900	29.55	762	0	1.62	269.3	25.87	56.64	112.4	0.40446
5/21/04	2000	27.34	762	0	0.876	260.6	23.79	65.56	8.49	0.03058
5/21/04	2100	25.42	763	0	0.763	317	52.79	71.6	0	0
5/21/04	2200	24.2	763	0	0.665	346.1	24.68	77.7	0.001	0
5/21/04	2300	22.99	763	0	0.409	311.4	39.7	82.9	0.008	0.00003
5/21/04	2400	21.7	763	0	1.153	246.8	12.88	89.2	0.009	0.00003
5/22/04	100	20.77	763	0	1.425	235.7	7.32	91.8	0.006	0.00002
5/22/04	200	20.16	762	0	1.352	237.6	12.82	91.7	0.002	0.00001
5/22/04	300	19.95	762	0	0.43	256.9	35.84	92.1	0	0
5/22/04	400	19.52	762	0	0.571	256.6	19.34	93.4	0.001	0
5/22/04	500	19.03	762	0	0.453	282.7	30.68	93.8	0.001	0
5/22/04	600	18.87	762	0	0.44	0.828	36.87	93.3	16.31	0.05873
5/22/04	700	20.35	763	0	0.309	316.9	39.29	84.7	138.1	0.49707
5/22/04	800	22.92	763	0	1.04	244	17.76	73.8	294.3	1.0597
5/22/04	900	25.03	763	0	1.243	226.6	31.1	68.8	444.6	1.6006
5/22/04	1000	26.59	763	0	2.003	207.9	27.08	61.45	615.3	2.2151
5/22/04	1100	28.19	763	0	2.374	218	32.19	51.69	742	2.6702
5/22/04	1200	28.61	763	0	2.788	219.1	23.26	55.43	632.2	2.2758
5/22/04	1300	29.4	762	0	2.969	224	29.67	52.13	757	2.7234
5/22/04	1400	29.99	761	0	3.141	224.1	31.99	48.29	685.4	2.4675
5/22/04	1500	29.63	761	0	3.238	211.5	26.36	59.54	341.2	1.2283
5/22/04	1600	26.03	761	0.7	1.833	288.2	43.5	85	190.3	0.685
5/22/04	1700	25.44	761	0	1.023	323.3	74.5	85.7	157.7	0.56779
5/22/04	1800	25.84	761	0	1.367	313.8	32.58	78.2	97.1	0.34938
5/22/04	1900	24.28	761	0	1.922	300	28.33	77.3	27.47	0.09889
5/22/04	2000	22.94	761	0	0.821	317.3	46.73	87.1	20.7	0.07453
5/22/04	2100	21.89	761	0	1.139	243.6	17.98	89.7	0.017	0.00006
5/22/04	2200	21.35	761	0	0.86	248.6	26.33	91.4	0.009	0.00003

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/22/04	2300	20.88	761	0	0.814	252.7	19.27	92.9	0.003	0.00001
5/22/04	2400	20.36	761	0	0.673	263.8	29.27	94.3	0.001	0
5/23/04	100	19.91	760	0	0.52	276.9	31.22	94.5	0.001	0
5/23/04	200	19.49	760	0	0.75	261.1	34.67	95.4	0	0
5/23/04	300	19.12	760	0	0.786	14.07	30.96	95.4	0	0
5/23/04	400	18.81	760	0	0.887	15.92	24.63	95.4	0.001	0
5/23/04	500	18.5	760	0	0.307	354.5	34.97	95.7	0.002	0.00001
5/23/04	600	18.24	761	0	0.601	250.6	22.61	95.8	15.18	0.05464
5/23/04	700	19.16	761	0	0.525	5.328	58.08	94.5	53.18	0.19145
5/23/04	800	20.3	762	0	0.604	301.8	55.29	93	74.6	0.26868
5/23/04	900	21.84	762	0	1.354	232.8	23.31	84.5	343	1.2347
5/23/04	1000	24.62	762	0	2.711	218.7	23.56	75	531.4	1.9132
5/23/04	1100	26.14	762	0	3.49	228.3	21.75	62.52	664.1	2.3909
5/23/04	1200	27.49	761	0	3.658	218.8	20.54	57.47	728	2.6199
5/23/04	1300	28.45	761	0	4.342	236.5	20.85	52.86	685.6	2.4683
5/23/04	1400	29.15	761	0	4.692	226.4	21.36	49.22	757	2.7248
5/23/04	1500	29.61	760	0	4.481	216.5	21.37	48.52	536.8	1.9325
5/23/04	1600	29.4	760	0	4.265	211.3	20.79	42.78	484.5	1.7443
5/23/04	1700	29.94	760	0	5.314	229.7	17.62	40.05	487	1.7531
5/23/04	1800	29.31	759	0	4.205	221.7	16.66	42.82	287.3	1.0343
5/23/04	1900	28.01	759	0	3.123	226.2	15.84	50.2	114.5	0.41234
5/23/04	2000	26.05	759	0	1.581	214.7	15.51	57.05	8.12	0.02923
5/23/04	2100	24.12	760	0	0.985	219.6	12.03	64.5	0.005	0.00002
5/23/04	2200	22.6	760	0	1.129	228.1	15.28	69.27	0.009	0.00003
5/23/04	2300	21.69	761	0	1.217	227.6	14.75	73.2	0.013	0.00005
5/23/04	2400	20.87	761	0	1.217	237.5	19.22	72.7	0.016	0.00006
5/24/04	100	20.53	761	0	1.237	238.7	14.19	77.8	0.003	0.00001
5/24/04	200	19.63	761	0	0.554	285.3	28.27	83.9	0	0
5/24/04	300	18.64	761	0	0.475	271	22.42	88.1	0	0
5/24/04	400	18.34	761	0	0.556	277.1	25.86	87.1	0	0
5/24/04	500	18.21	761	0	0.883	231.6	23.67	89.2	0.008	0.00003
5/24/04	600	18.03	761	0	0.664	251.8	39.78	87.8	9.77	0.03519
5/24/04	700	19.53	761	0	1.235	230.7	14.2	78.4	139.3	0.50166
5/24/04	800	22.47	762	0	2.927	225.4	17.5	71.2	325.2	1.1707
5/24/04	900	24.3	762	0	3.399	226	19.35	68.54	507.3	1.8262
5/24/04	1000	25.85	762	0	3.494	226.6	23.01	64.36	647.5	2.331
5/24/04	1100	27.08	762	0	4.155	229.8	23.54	57.47	688.3	2.4779
5/24/04	1200	28.41	761	0	4.539	237.6	23.51	52.36	808	2.9091
5/24/04	1300	29.25	761	0	4.388	225.5	24.96	50.73	732	2.6349
5/24/04	1400	29.94	761	0	4.136	228.4	27.3	49.26	661.3	2.3806
5/24/04	1500	30.79	760	0	4.65	248	22.55	41.01	693.2	2.4954
5/24/04	1600	30.41	760	0	4.664	229.7	18.21	49.59	438	1.5768
5/24/04	1700	29.65	760	0	3.931	221.8	16.87	47.36	334.3	1.2035

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/24/04	1800	29.2	760	0	2.879	212.8	16.04	51.66	205.9	0.74109
5/24/04	1900	28.75	760	0	2.515	221.4	17	57.74	146.1	0.52583
5/24/04	2000	27.08	759	0	1.435	214.8	11.74	62.32	10.05	0.03617
5/24/04	2100	25.08	760	0	1.135	230.1	18.73	71.2	0	0
5/24/04	2200	23.42	760	0	1.533	238.3	11.5	76.4	0.006	0.00002
5/24/04	2300	22.92	760	0	1.62	230.5	10.13	77	0.02	0.00007
5/24/04	2400	22.38	760	0	1.335	243	11.57	81.8	0.021	0.00008
5/25/04	100	21.68	760	0	1.452	247.8	15.81	82.6	0.018	0.00007
5/25/04	200	20.93	760	0	0.913	256.5	13.9	87	0.011	0.00004
5/25/04	300	21.14	760	0	0.464	295.7	33.8	86.4	0.011	0.00004
5/25/04	400	20.99	761	0	0.943	245.3	25.3	89.7	0.022	0.00008
5/25/04	500	20.43	761	0	1.123	239.8	10.2	89.4	0.019	0.00007
5/25/04	600	20.13	761	0	1.164	241	9.78	91.2	11.13	0.04007
5/25/04	700	21.09	761	0	0.918	274.5	47.75	87.4	94.7	0.34082
5/25/04	800	22.62	762	0	1.194	228.3	46.68	85	183.5	0.66076
5/25/04	900	23.7	762	0	2.341	216.2	17.97	76.4	303.4	1.0923
5/25/04	1000	25.72	761	0	3.791	216.3	19.4	69.34	491.3	1.7688
5/25/04	1100	27.51	761	0	4.114	227.2	22.84	61.11	599	2.1563
5/25/04	1200	28.72	760	0	4.52	226.9	18.76	53.83	784	2.8231
5/25/04	1300	29.06	760	0	4.532	246.8	23.1	52.86	553	1.9909
5/25/04	1400	30.07	760	0	3.953	244	25.66	52.03	635.5	2.2879
5/25/04	1500	30.57	760	0	4.18	243	18.52	49.19	650.7	2.3427
5/25/04	1600	30.38	759	0	3.667	232.7	20.17	48.22	355.9	1.2812
5/25/04	1700	30.09	759	0	3.519	238	18.74	49.26	298.7	1.0754
5/25/04	1800	29.54	758	0	3.233	223.8	17.29	51.63	225.3	0.81108
5/25/04	1900	28.28	758	0	2.039	222.3	16.69	59.18	60.79	0.21883
5/25/04	2000	26.85	758	0	1.626	208.2	13.13	62.46	4.683	0.01686
5/25/04	2100	26.56	759	0	2.06	214	31.62	61.76	0	0
5/25/04	2200	26.11	759	0	1.852	236.2	27.57	63.73	0.001	0
5/25/04	2300	25.28	760	0	1.695	214	16.66	68.27	0	0
5/25/04	2400	24.57	760	0	1.838	208.4	15.25	71.5	0.004	0.00001
5/26/04	100	23.8	759	0	1.567	220.6	15.03	73.8	0.005	0.00002
5/26/04	200	23.82	759	0	1.771	220.4	15.29	73.9	0.009	0.00003
5/26/04	300	23.83	759	0	1.841	214.9	14.26	75.8	0.014	0.00005
5/26/04	400	23.63	759	0	1.726	210.3	15.45	76.2	0.011	0.00004
5/26/04	500	23.3	759	0	1.556	213.3	13.9	79.3	0.034	0.00012
5/26/04	600	22.99	759	0	1.539	213.5	16.09	78.4	4.914	0.01769
5/26/04	700	23.44	759	0	2.143	206.2	15.44	76	35.55	0.128
5/26/04	800	23.97	759	0	2.631	206.8	15.64	73	158.6	0.57107
5/26/04	900	24.48	759	0	2.69	206.6	16.91	72.1	157.9	0.56852
5/26/04	1000	25.71	760	0	3.637	218	20.87	65.5	432.2	1.5557
5/26/04	1100	26.7	759	0	4.653	224.6	20.72	65.48	559.3	2.0136
5/26/04	1200	26.81	759	0	4.291	224.6	19.17	64.74	403.3	1.4518

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/26/04	1300	27.53	758	0	4.357	208.5	21.09	61.81	439.2	1.581
5/26/04	1400	27.29	758	0	4.402	215.6	16.93	65.81	212.4	0.76467
5/26/04	1500	26.32	757	0	4.29	215.2	18.11	67.07	239.1	0.86085
5/26/04	1600	26.89	757	0	4.242	221.3	17.74	69.39	252.4	0.90849
5/26/04	1700	26.37	757	0	1.181	217.2	32.77	71.5	59.55	0.21438
5/26/04	1800	22.99	757	7.2	3.456	13.87	61.04	96.6	11.96	0.04304
5/26/04	1900	18.94	758	0.1	2.401	15.09	66.41	95.5	8.47	0.0305
5/26/04	2000	19.22	759	4	2.029	75.5	76.6	96	0.358	0.00129
5/26/04	2100	18.79	759	0.2	3.664	127.9	13.02	94.7	0.003	0.00001
5/26/04	2200	18.55	759	0.1	2.172	124.8	31.5	93.9	0.001	0
5/26/04	2300	18.53	759	0	1.283	124.6	43.05	93.3	0.005	0.00002
5/26/04	2400	18.01	758	0	0.951	254.6	50.07	95.8	0.001	0
5/27/04	100	17.85	758	0	0.617	250	44.11	96.2	0	0
5/27/04	200	17.97	757	0	0.979	345.2	37.65	95.7	0	0
5/27/04	300	18.17	758	0	0.665	240.8	16.57	95.4	0	0
5/27/04	400	18.18	758	0	0.964	218.8	31.11	95.6	0.001	0
5/27/04	500	18.42	758	0	1.21	267.5	66.9	95.3	0.003	0.00001
5/27/04	600	18.48	758	0	1.752	35.53	20.01	94.3	3.839	0.01382
5/27/04	700	18.77	758	0	1.708	18.65	15.65	92.6	44.48	0.16014
5/27/04	800	19.13	759	0	1.196	18.56	30.38	90.7	125.3	0.4511
5/27/04	900	21.02	759	0	0.803	101	38.85	83.4	416.1	1.4979
5/27/04	1000	23.5	759	0	2.211	219.5	21.42	77	511.4	1.841
5/27/04	1100	25.63	758	0	3.938	226.4	18.54	65.29	677.4	2.4385
5/27/04	1200	26.81	758	0	4.626	230.6	18	61.97	690.8	2.4868
5/27/04	1300	27.77	757	0	4.963	216.5	19.09	53.5	810	2.9178
5/27/04	1400	28.65	757	0	4.79	217.8	20.14	47.86	727	2.6186
5/27/04	1500	29.27	756	0	5.146	220.2	18.17	46.22	732	2.6336
5/27/04	1600	28.95	756	0	5.024	215.4	18.99	47.99	479.8	1.7272
5/27/04	1700	28.62	756	0	4.611	221.9	18.7	49.99	334.2	1.2031
5/27/04	1800	27.97	756	0	3.488	219.6	18.67	52.93	157.9	0.56839
5/27/04	1900	27.32	755	0	2.957	213.1	16.83	54.28	89	0.32053
5/27/04	2000	26.47	755	0	3.058	208.3	16.2	57.52	9.97	0.0359
5/27/04	2100	24.91	755	0	1.267	218.1	13.35	64.6	0.001	0
5/27/04	2200	24.06	756	0	1.722	218.5	13.5	66.77	0.008	0.00003
5/27/04	2300	23.8	756	0	1.803	219.4	13.35	66.67	0.008	0.00003
5/27/04	2400	23.69	756	0	1.815	222.4	15.52	65.77	0.01	0.00004
5/28/04	100	23.84	757	0	2.187	210.7	16.18	63.13	0.014	0.00005
5/28/04	200	23.6	756	0	2.695	205.9	16.22	64.93	0.009	0.00003
5/28/04	300	23.37	756	0	2.074	208.8	17.33	67.27	0.012	0.00004
5/28/04	400	23.25	755	0	2.42	210.1	16.36	68.77	0.021	0.00008
5/28/04	500	23.23	755	0	2.766	207	15.63	70.1	0.024	0.00009
5/28/04	600	21.15	756	2	2.499	241.5	42.39	90.4	1.113	0.00401
5/28/04	700	19.38	758	0.3	1.993	227.4	59.43	93.2	16.73	0.06023

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/28/04	800	19.51	758	0.2	1.762	201.8	30.25	90.8	99.5	0.35813
5/28/04	900	20.37	757	0	1.882	208.6	20.77	89.3	186	0.6696
5/28/04	1000	20.84	758	0.1	1.842	232.6	27.07	89.9	141.8	0.51054
5/28/04	1100	21.19	758	0	1.793	201	18.23	84.7	243.2	0.87564
5/28/04	1200	21.79	758	0	2.225	214.5	22.97	82	280.2	1.0088
5/28/04	1300	22.65	758	0	3.111	219.5	17.53	78	426.2	1.5342
5/28/04	1400	23.94	758	0	3.918	233	18.02	73.9	487.4	1.7546
5/28/04	1500	23.92	758	0	3.483	233.9	15.04	75.1	230.1	0.82837
5/28/04	1600	24.03	758	0	2.647	229.2	17.98	70	292.6	1.0535
5/28/04	1700	24.81	758	0	3.413	237.6	26.25	67.13	338.5	1.2187
5/28/04	1800	24.08	758	0	2.621	222.6	29.13	77.3	152	0.5471
5/28/04	1900	22.98	758	0	2.597	200.1	14.04	80.1	61.2	0.22033
5/28/04	2000	22.2	759	0	1.974	200.3	16.35	83.5	6.785	0.02443
5/28/04	2100	21.31	759	0	1.356	209.8	15.13	88.9	0.024	0.00009
5/28/04	2200	20.6	759	0	1.284	211.2	26.72	89.8	0.005	0.00002
5/28/04	2300	20.17	760	0	1.229	218.8	16.32	91.7	0.003	0.00001
5/28/04	2400	19.48	760	0	0.929	227.6	27.08	94.4	0.002	0.00001
5/29/04	100	19.35	760	0	1.34	219.3	15.51	94.8	0.003	0.00001
5/29/04	200	19.15	760	0	1.634	214.5	16.83	95.4	0.002	0.00001
5/29/04	300	18.84	759	0	1.403	223.8	23.18	96.3	0.002	0.00001
5/29/04	400	18.75	759	0	1.025	227.9	33.45	96.8	0.001	0
5/29/04	500	18.82	760	0	0.425	179.1	58.28	97	0.001	0
5/29/04	600	19.02	760	0	0.762	122.9	43.7	96.4	5.86	0.02109
5/29/04	700	19.18	760	0	0.928	219.6	35.99	96.3	28.17	0.10142
5/29/04	800	19.73	761	0	0.79	200.8	62.75	91.6	88.8	0.31967
5/29/04	900	21.13	761	0	0.739	37.35	57.72	81.6	252	0.90716
5/29/04	1000	22.94	761	0	0.903	267.6	84.1	75.3	417	1.5013
5/29/04	1100	23.86	761	0	1.378	229	37.27	73	479	1.7245
5/29/04	1200	24.74	761	0	2.398	246	31.15	65.15	694.9	2.5015
5/29/04	1300	25.84	761	0	2.063	266.6	43.71	61.1	733	2.6391
5/29/04	1400	26.59	760	0	2.509	269.3	46.96	63.17	710	2.5553
5/29/04	1500	26.65	760	0	2.117	271.5	30.16	60.54	488.5	1.7585
5/29/04	1600	27.13	760	0	2.622	223.7	24.35	58	533.4	1.9202
5/29/04	1700	26.89	760	0	2.337	233.4	23.3	60.57	320.6	1.1542
5/29/04	1800	27.15	759	0	2.009	238.3	27.94	59.07	310.3	1.1171
5/29/04	1900	26.25	759	0	1.686	205.9	22.17	66.86	76.2	0.27445
5/29/04	2000	25.21	759	0	1.679	188.2	17.02	70.7	12.6	0.04535
5/29/04	2100	24.07	759	0	1.851	210.5	13.75	75.2	0.004	0.00001
5/29/04	2200	23.52	760	0	2.016	207.2	12.72	77.7	0.014	0.00005
5/29/04	2300	22.6	760	0	1.55	218.5	14.76	82.1	0.02	0.00007
5/29/04	2400	22.06	760	0	0.819	208.1	23.93	84.8	0.015	0.00005
5/30/04	100	20.86	760	0	0.458	273.2	28.82	91.6	0.019	0.00007
5/30/04	200	20.11	760	0	0.649	275.9	36.19	92.9	0.004	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/30/04	300	19.51	759	0	0.775	274.1	61.41	94.7	0.002	0.00001
5/30/04	400	19.18	759	0	0.709	247.3	21.49	95.1	0	0
5/30/04	500	19.21	759	0	0.264	303.4	39.2	94.7	0.001	0
5/30/04	600	19.52	759	0	0.58	282.5	63.99	94.4	2.34	0.00842
5/30/04	700	20.08	759	0	1.305	205	40.34	92	12.57	0.04525
5/30/04	800	20.76	760	0	2.68	188.1	17.71	89.3	106.6	0.38388
5/30/04	900	21.9	760	0	3.073	200.2	18.69	81.2	355.1	1.2783
5/30/04	1000	23.4	760	0	2.983	201.8	18.82	78	410.7	1.4786
5/30/04	1100	24.09	760	0	2.915	208.8	22.1	76.6	328.5	1.1826
5/30/04	1200	25.04	760	0	2.321	207.3	19.21	73.6	277.8	1.0001
5/30/04	1300	26.84	759	0	4.097	211	21.48	70.1	556.2	2.0024
5/30/04	1400	27.03	758	0	3.501	197.1	20.44	74.7	345.3	1.2432
5/30/04	1500	28.23	758	0	3.236	203.5	20	63.54	510.2	1.8367
5/30/04	1600	29.65	757	0	4.083	210.8	19.97	57.53	512.9	1.8466
5/30/04	1700	30.14	756	0	4.716	210.7	17.8	58.74	429.7	1.5469
5/30/04	1800	29.77	756	0	4.146	202.9	15.2	59.37	234.1	0.84261
5/30/04	1900	29.05	755	0	3.224	199	14.9	63.21	105.7	0.38068
5/30/04	2000	27.99	755	0	2.399	198.6	14.34	66.51	13.59	0.04892
5/30/04	2100	27.43	756	0	2.365	198.9	14.65	65.8	0.002	0.00001
5/30/04	2200	27	756	0	2.368	199.7	14.57	68.8	0.001	0
5/30/04	2300	26.58	756	0	2.837	204.7	14.54	70	0	0
5/30/04	2400	26.64	755	0	3.371	197.9	14.53	69.47	0	0
5/31/04	100	26.5	755	0	3.355	198.7	14.12	70.5	0	0
5/31/04	200	26.74	755	0	4.657	204.7	18.37	70.9	0	0
5/31/04	300	23.33	754	7.3	5.081	245.3	52.05	91.5	0.013	0.00005
5/31/04	400	18.33	756	2.6	1.522	251.3	77.1	95.7	0.005	0.00002
5/31/04	500	18.52	755	0.3	3.574	139.5	13.34	94.6	0.001	0
5/31/04	600	18.52	755	0	1.942	181	24.56	94.7	6.622	0.02384
5/31/04	700	18.58	755	0.6	1.646	213.6	25.39	95.6	15.25	0.0549
5/31/04	800	18.7	756	0.3	2.851	196.9	45.54	93.9	37.4	0.13464
5/31/04	900	19.04	755	0.1	2.304	228.3	24.48	93.3	82.3	0.29612
5/31/04	1000	19.64	756	0	3.685	217.8	17.36	88.9	200.7	0.72258
5/31/04	1100	20.49	756	0	3.861	219.9	17.9	87.6	205.5	0.73996
5/31/04	1200	20.8	756	0	3.607	219.2	19.27	85.5	166.5	0.59948
5/31/04	1300	20.66	756	0.1	4.132	230.1	16.68	90.3	237	0.85303
5/31/04	1400	22.25	756	0	3.17	224.8	17.88	76.6	493.5	1.7765
5/31/04	1500	24.1	755	0	4.285	223	17.46	68.87	522.1	1.8796
5/31/04	1600	25.22	755	0	4.356	231.9	18.97	57.75	506.1	1.8221
5/31/04	1700	25.98	755	0	5.137	242.2	16.57	50.37	496.5	1.7873
5/31/04	1800	25.89	755	0	4.388	249	13.88	49.7	293.6	1.0568
5/31/04	1900	24.41	755	0	1.732	251.2	23.59	62.83	132	0.47537
5/31/04	2000	21.23	756	0	1.206	252.6	17.8	78	11.58	0.04169
5/31/04	2100	19.24	756	0	1.07	249	10.78	85.2	0.024	0.00009



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
5/31/04	2200	18.82	756	0	1.676	236.4	13.82	89.3	0	0
5/31/04	2300	19.36	756	0	1.565	216.8	14.66	88.9	0	0
5/31/04	2400	19.29	757	0	1.565	216.3	16.59	88.4	0	0
6/1/04	100	19.18	757	0	1.704	238.1	33.23	90.4	0	0
6/1/04	200	18.51	757	0	1.238	223.2	22.95	91.6	0	0
6/1/04	300	18.39	757	0	1.388	227.3	19.74	92.4	0	0
6/1/04	400	17.57	757	0	0.558	220	38.28	94.4	0.002	0.00001
6/1/04	500	16.94	758	0	0.653	242.2	51.22	95.6	0.046	0.00017
6/1/04	600	17.21	758	0	1.552	204.7	16.64	95.3	11.1	0.03997
6/1/04	700	17.64	758	0	1.851	213.9	20.69	92.3	80.8	0.29099
6/1/04	800	18.39	759	0	2.03	223.4	18.06	85.3	225.5	0.81193
6/1/04	900	19.99	759	0	1.836	224.5	23.95	76.2	535.9	1.9291
6/1/04	1000	21.66	759	0	2.194	205.7	31.91	68.47	636.7	2.292
6/1/04	1100	23.31	759	0	2.495	215.4	26.9	57.69	813	2.928
6/1/04	1200	24.72	759	0	2.781	217.5	26.32	49.46	763	2.7453
6/1/04	1300	25.6	759	0	3.668	227.2	16.66	45.92	781	2.8131
6/1/04	1400	26.77	759	0	3.854	218.4	22.27	38.24	812	2.9242
6/1/04	1500	27.57	758	0	3.487	220	22.04	32.47	707	2.5447
6/1/04	1600	27.41	758	0	3.72	228.7	19.41	34.07	524	1.8866
6/1/04	1700	27.38	758	0	3.797	225.9	18	37.28	460	1.6561
6/1/04	1800	26.99	758	0	3.295	215.6	18.01	38.48	301.1	1.084
6/1/04	1900	25.92	758	0	2.702	196.4	16.93	42.52	140.5	0.50581
6/1/04	2000	24.06	758	0	2.225	203.6	16.96	47.24	13.15	0.04734
6/1/04	2100	21.85	758	0	1.242	233.4	10.22	58.85	0.017	0.00006
6/1/04	2200	20.61	758	0	1.614	221.7	11.74	64.73	0.004	0.00001
6/1/04	2300	18.79	759	0	1.564	234	8.32	75.6	0	0
6/1/04	2400	17.44	759	0	1.277	245.9	11.94	83.4	0.001	0
6/2/04	100	16.53	760	0	0.834	257.6	18.53	87.9	0.009	0.00003
6/2/04	200	15.73	760	0	1.504	246.2	10.93	91.8	0.011	0.00004
6/2/04	300	15.55	760	0	0.639	18.08	46.75	90.3	0.006	0.00002
6/2/04	400	15.34	760	0	0.415	344.8	27.76	91.9	0.001	0
6/2/04	500	14.57	761	0	0.831	249.2	16.77	94.4	0.044	0.00016
6/2/04	600	14.9	761	0	0.623	344.1	27.83	91.8	22.02	0.07928
6/2/04	700	16.14	761	0	0.619	351.6	35.82	86.7	120	0.43206
6/2/04	800	18.01	762	0	0.867	304.9	65.63	83.1	197.6	0.71149
6/2/04	900	20.2	763	0	2.343	178.3	34.93	73.6	507.4	1.8265
6/2/04	1000	21.97	762	0	3.448	192.1	22.11	66.43	658.9	2.3721
6/2/04	1100	23.51	762	0	2.167	214.8	33.62	60.76	688.9	2.48
6/2/04	1200	24.81	762	0	3.007	220.3	27.07	60.61	821	2.9545
6/2/04	1300	25.8	762	0	3.045	231.4	27.78	59.5	692.6	2.4932
6/2/04	1400	26.76	762	0	2.935	232.5	25.81	53.96	676.8	2.4363
6/2/04	1500	27.4	761	0	2.611	234.9	29.51	50.53	638.4	2.2982
6/2/04	1600	27.95	761	0	3.034	227.6	24.27	50.26	583.4	2.1004

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/2/04	1700	28.05	761	0	3.18	210.3	21.95	48.09	449.7	1.6189
6/2/04	1800	27.86	760	0	2.786	219.8	20.8	52.46	284.9	1.0256
6/2/04	1900	26.12	760	0	3.239	247.2	82.5	60.8	107.4	0.38657
6/2/04	2000	20.87	761	0	1.832	30.16	37.73	64.96	7.03	0.0253
6/2/04	2100	19.98	762	0	1.078	316.5	53.01	75.4	0.02	0.00007
6/2/04	2200	19.17	762	0	0.971	29.08	51.36	77.2	0	0
6/2/04	2300	18.95	763	0	1.286	256.8	61.48	84.1	0.001	0
6/2/04	2400	19.11	763	0.1	1.074	271.5	52.37	89.6	0	0
6/3/04	100	18.48	763	0	1.158	277.7	75.8	90.7	0	0
6/3/04	200	18.3	763	0	1.662	26.9	30.93	87.7	0	0
6/3/04	300	18.49	763	0	2.165	64.47	24.56	83.5	0	0
6/3/04	400	18.41	763	0	1.782	56.64	26.93	83	0	0
6/3/04	500	18.08	763	0	1.239	21.9	28.81	88.4	0.002	0.00001
6/3/04	600	17.85	764	0	1.35	19.1	30.43	88.1	4.912	0.01768
6/3/04	700	18.17	764	0	1.211	17.86	21.19	86.1	35.43	0.12754
6/3/04	800	19.37	764	0	1.203	15.04	26.66	78.8	235.7	0.8486
6/3/04	900	21.04	764	0	1.001	357.5	82.5	77.2	349.6	1.2587
6/3/04	1000	21.28	765	0	0.89	199.6	53.38	76.5	254.7	0.91697
6/3/04	1100	23.09	765	0	1.38	219.1	63.24	71.7	690.6	2.4861
6/3/04	1200	24.57	764	0	1.343	156.2	47.74	65.41	615.9	2.2171
6/3/04	1300	25.41	764	0	1.672	183.6	60.01	65.84	590.6	2.1263
6/3/04	1400	26.4	763	0	1.82	203.8	63.31	58.13	662.4	2.3847
6/3/04	1500	25.71	763	0	2.148	271	26.12	65.61	214.7	0.7729
6/3/04	1600	25.32	763	0	1.787	284.5	21.14	65.39	183.2	0.65967
6/3/04	1700	25.18	763	0	1.662	292.8	21.75	65.3	154.6	0.55668
6/3/04	1800	24.55	763	0	0.9	327.6	36.55	70.4	68.31	0.24591
6/3/04	1900	23.67	763	0	1.961	6.327	27.16	70.5	46.74	0.16827
6/3/04	2000	22.27	763	0	1.662	13.03	42.39	75.7	4.081	0.01469
6/3/04	2100	21.37	763	0	1.668	47.13	29.68	78.8	0.018	0.00006
6/3/04	2200	20.85	763	0	1.818	54.32	32.38	78.3	0.005	0.00002
6/3/04	2300	20.5	763	0	1.219	7.76	29.45	81.4	0.002	0.00001
6/3/04	2400	20.13	763	0	1.216	40.04	31.61	83.4	0.001	0
6/4/04	100	19.77	763	0	1.084	23.2	32.01	83.8	0	0
6/4/04	200	19.31	763	0	0.93	35.69	37.33	90	0	0
6/4/04	300	18.9	762	0	0.946	9.91	35.29	88.3	0	0
6/4/04	400	18.61	762	0	1.083	330.7	31.38	89.2	0	0
6/4/04	500	18.33	762	0.1	1.717	287.3	29.39	90.1	0	0
6/4/04	600	17.57	763	0.5	1.641	352.2	50.18	90.7	1.131	0.00407
6/4/04	700	16.43	763	1.2	2.055	32.46	43.75	92.2	35.32	0.12715
6/4/04	800	16.9	763	0	1.291	119.5	36.14	87.4	175.8	0.63288
6/4/04	900	18.3	763	0	1.337	133.9	47.42	82.9	369.5	1.3301
6/4/04	1000	19.85	763	0	1.222	334.1	85	77.2	605.6	2.18
6/4/04	1100	20.73	763	0	1.346	347.6	59.67	65.63	666	2.3974

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/4/04	1200	22.38	763	0	1.703	296.4	65.98	62.02	695.9	2.5053
6/4/04	1300	22.8	763	0	1.825	269.1	49.27	61.72	528.7	1.9033
6/4/04	1400	23.84	763	0	1.94	291.4	54.1	62.15	675.4	2.4315
6/4/04	1500	24.71	762	0	2.252	333.9	44.25	47.29	703	2.5299
6/4/04	1600	25.28	762	0	2.599	295.7	38.55	49.29	599.7	2.1587
6/4/04	1700	24.71	762	0	2.832	322.3	46.18	56.1	416.2	1.4984
6/4/04	1800	23.36	762	0	2.763	23.14	27.24	62.85	230.8	0.83081
6/4/04	1900	22.13	762	0	2.161	20.65	21.75	60.79	105.4	0.37931
6/4/04	2000	21.09	762	0	2.074	36.04	16.58	67.63	16.91	0.06089
6/4/04	2100	19.63	762	0	1.659	30.21	25.68	75.7	0.021	0.00007
6/4/04	2200	18.46	762	0	1.564	43.86	26.96	79	0	0
6/4/04	2300	17.71	763	0	1.937	47.82	18.6	82	0.001	0
6/4/04	2400	16.81	763	0	1.621	40.69	13.18	86	0.01	0.00004
6/5/04	100	15.94	763	0	0.72	25.66	39.1	89.6	0.014	0.00005
6/5/04	200	14.93	762	0	0.921	25.5	26.14	91.6	0.002	0.00001
6/5/04	300	14.36	762	0	0.707	30.05	33.86	92.4	0	0
6/5/04	400	13.88	762	0	0.441	310.7	62.78	93.5	0	0
6/5/04	500	13.19	762	0	0.776	247.7	18.79	95	0.051	0.00018
6/5/04	600	13.1	763	0	0.413	324.4	31.48	94.3	26.4	0.09502
6/5/04	700	14.16	763	0	0.86	7.63	26.62	87.9	150.2	0.54089
6/5/04	800	16.44	763	0	1.679	14.86	29.27	79.7	284	1.0224
6/5/04	900	17.69	763	0	2.17	348.1	17.28	71.8	128.1	0.46111
6/5/04	1000	19.77	764	0	1.724	8.24	42.6	60.79	154.9	0.55772
6/5/04	1100	21.79	763	0	2.904	39.25	31.29	47.84	187.6	0.67534
6/5/04	1200	23	763	0	2.231	33.15	51.45	47.16	188.7	0.67929
6/5/04	1300	23.75	763	0	2.457	27.12	43.93	46.49	180.8	0.65095
6/5/04	1400	24.29	762	0	2.258	39.53	58.74	40.41	171.2	0.61647
6/5/04	1500	24.81	762	0	2.427	18.35	50.57	38.85	146.7	0.528
6/5/04	1600	25.25	761	0	2.155	8.61	41.71	39.15	122.7	0.44168
6/5/04	1700	24.74	761	0	2.139	15.77	28.86	39.65	85.9	0.30931
6/5/04	1800	24.57	761	0	2.658	27.34	18.9	42.75	83.1	0.29918
6/5/04	1900	23.56	761	0	2.642	18.58	10.95	47.5	40.91	0.14728
6/5/04	2000	21.7	761	0	2.09	29.07	12.93	56.55	3.885	0.01399
6/5/04	2100	20.03	761	0	1.546	30.52	13.57	60.09	0.001	0
6/5/04	2200	18.86	761	0	1.388	34.33	16.31	64.07	0	0
6/5/04	2300	17.17	762	0	0.487	3.634	53.38	73.6	0.01	0.00004
6/5/04	2400	15.58	762	0	0.885	315.3	56.83	79.2	0.005	0.00002
6/6/04	100	15.07	762	0	0.462	356	28.48	84.3	0	0
6/6/04	200	14.57	762	0	1.229	27.55	15	83.6	0	0
6/6/04	300	14.86	761	0	0.929	36.85	20.34	82.7	0	0
6/6/04	400	14.77	761	0	0.752	30.42	28.74	84.3	0	0
6/6/04	500	14.93	761	0	0.39	352.4	33.79	83.8	0.004	0.00002
6/6/04	600	15.24	762	0	0.84	32.04	21.64	81.7	3.007	0.01082

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/6/04	700	15.98	762	0	0.981	37.12	27.84	80.6	24.82	0.08935
6/6/04	800	17.15	762	0	1.896	16.25	16.49	78.1	52.78	0.19001
6/6/04	900	18.76	763	0	1.512	43.72	30.72	66.23	92	0.33136
6/6/04	1000	20.98	763	0	1.786	38.27	38.32	63.53	131.7	0.4743
6/6/04	1100	23	763	0	1.762	19.49	24.05	60.05	170.9	0.61518
6/6/04	1200	24.3	763	0	1.855	345.6	26.07	54.3	150.2	0.54055
6/6/04	1300	25.02	762	0	1.972	354.8	37.27	56.77	143.1	0.51504
6/6/04	1400	25.15	762	0	1.586	4.414	38.88	56.87	115	0.41415
6/6/04	1500	25.92	762	0	1.454	1.518	93.3	51.96	134.9	0.48551
6/6/04	1600	26.55	762	0	1.435	215	46.91	45.82	136.6	0.49188
6/6/04	1700	26.88	761	0	1.269	102.5	86.4	45.55	107.7	0.38783
6/6/04	1800	26.26	761	0	1.442	175.4	29.41	46.55	51.25	0.18449
6/6/04	1900	25.34	761	0	1.238	174.6	48.54	58.38	19.24	0.06926
6/6/04	2000	23.31	761	0	1.004	10.45	31.87	66.43	2.383	0.00858
6/6/04	2100	22.47	762	0	1.615	24.85	13.09	68.47	0.005	0.00002
6/6/04	2200	21.57	762	0	0.955	19.07	31.11	74	0.002	0.00001
6/6/04	2300	20.36	762	0	0.774	10.96	25.57	79.9	0	0
6/6/04	2400	20.01	762	0	0.747	23.86	28.1	79.9	0	0
6/7/04	100	19.74	762	0	1.102	28.77	22.7	79	0	0
6/7/04	200	19.41	762	0	1.198	36.3	19.61	76.4	0	0
6/7/04	300	19.19	762	0	0.85	33.98	26.78	79.9	0.001	0
6/7/04	400	18.94	762	0	1.089	31.98	24.59	79.8	0	0
6/7/04	500	18.65	763	0	0.971	18.05	20.57	83.6	0.001	0
6/7/04	600	18.59	763	0	1.071	15.12	18.81	84.6	2.291	0.00825
6/7/04	700	18.78	763	0	1.175	10.25	18.64	83.4	10.68	0.03844
6/7/04	800	19.49	764	0	0.92	7.56	25.8	81	17.6	0.06336
6/7/04	900	20.22	764	0	1.581	14.51	16.4	77	31.45	0.11321
6/7/04	1000	20.82	765	0	1.28	26.4	17.19	75.5	26.03	0.0937
6/7/04	1100	21.27	765	0	1.651	24.95	20.64	73.1	55.2	0.19874
6/7/04	1200	23.88	765	0	1.833	10.46	23.29	64.86	161.4	0.58091
6/7/04	1300	25.69	764	0	1.757	52.76	49.39	60.67	150.8	0.54287
6/7/04	1400	26.43	764	0	1.285	146	75.3	53.8	147.8	0.53213
6/7/04	1500	26.78	764	0	1.414	130.1	48.64	56.33	104.4	0.3757
6/7/04	1600	27.37	764	0	1.39	174.9	51.31	56.57	116.5	0.41932
6/7/04	1700	28.07	763	0	1.173	178	50.18	51.63	130.3	0.469
6/7/04	1800	28.22	763	0	1.367	206.4	36.07	53.93	85.9	0.30939
6/7/04	1900	27.53	763	0	1.033	258.3	35.91	58.74	41.53	0.14952
6/7/04	2000	26.07	763	0	1.291	230.8	67.12	71.3	2.521	0.00908
6/7/04	2100	23.94	764	0	1.391	29.98	22.22	78	0.002	0.00001
6/7/04	2200	23.21	764	0	0.837	5.963	28.27	84.1	0.009	0.00003
6/7/04	2300	22.17	765	0	1.117	25.67	22.23	88.8	0.012	0.00004
6/7/04	2400	21.19	765	0	0.641	348.1	40.12	91	0.005	0.00002
6/8/04	100	20.54	764	0	0.928	16.4	14.45	93.4	0.001	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/8/04	200	20.35	765	0	0.526	359.6	20.66	92.8	0	0
6/8/04	300	20.39	765	0	0.737	272.5	49.26	92.6	0	0
6/8/04	400	20.42	765	0	0.749	291.7	60.69	91.8	0	0
6/8/04	500	20.57	765	0.4	0.911	328.8	73.9	94.4	0.001	0
6/8/04	600	20.32	765	0.2	1.035	11.1	24.39	94.3	2.579	0.00928
6/8/04	700	20.29	766	0.1	0.831	71.9	42.04	92.7	9.38	0.03377
6/8/04	800	20.8	766	0.2	1.03	2.321	38.85	93.9	17.28	0.0622
6/8/04	900	21.22	767	0.1	1.608	84.1	65.63	91.8	36.73	0.13224
6/8/04	1000	22.27	767	0	0.975	32.55	64.19	89.4	59.91	0.21567
6/8/04	1100	23.58	767	0	1.179	53.49	33.99	78.4	105.1	0.37819
6/8/04	1200	24.88	767	0	1.051	70.7	60.55	73.3	120.4	0.4333
6/8/04	1300	25.96	767	0	2.552	19.27	21.24	60.54	192.7	0.69364
6/8/04	1400	27.17	766	0	2.83	29.1	22.33	66.74	268.3	0.96576
6/8/04	1500	27.07	766	0	1.861	53.69	49.8	56.13	161.6	0.58181
6/8/04	1600	28.45	765	0	1.255	112.1	75	53.23	194	0.69827
6/8/04	1700	27.99	765	0	2.168	57.26	61.85	63.87	103.5	0.37246
6/8/04	1800	26.72	765	0	2.371	41.88	19.84	65.04	21.86	0.07871
6/8/04	1900	27.2	765	0	1.976	32.48	25.04	66.21	54.15	0.19493
6/8/04	2000	25.07	765	0	2.746	95.6	22.9	71	14.35	0.05166
6/8/04	2100	23.5	765	0	1.049	223.7	38.33	77.4	0.011	0.00004
6/8/04	2200	22.69	766	0	0.962	305.6	76.6	85.4	0.015	0.00005
6/8/04	2300	21.44	766	0	0.899	11.24	21.26	89.9	0.002	0.00001
6/8/04	2400	20.58	766	0	1.005	23.32	52.51	91.5	0.001	0
6/9/04	100	20.52	766	0	1.08	240.2	21.78	90.4	0	0
6/9/04	200	20.74	766	0	0.784	259.6	41.31	91.5	0.001	0
6/9/04	300	19.92	765	0	0.532	306.2	47.18	93.5	0	0
6/9/04	400	19.32	765	0	0.409	325.4	31.18	94.4	0	0
6/9/04	500	18.92	765	0	0.417	278	68.69	95	0.009	0.00003
6/9/04	600	18.95	766	0	0.461	325.6	30.24	93.5	9.44	0.03397
6/9/04	700	20.27	766	0	0.828	5.938	23.69	86	66.27	0.23858
6/9/04	800	23.09	766	0	0.931	8.1	25.93	72.9	127.9	0.4603
6/9/04	900	25.03	767	0	1.074	86.9	58.05	70.4	171.7	0.61814
6/9/04	1000	26.17	767	0	1.117	133	62.93	65.58	234.1	0.84287
6/9/04	1100	26.73	766	0	1.399	216.9	64.69	62.87	186.2	0.6702
6/9/04	1200	26.88	766	0	1.443	242.2	35.82	59.77	107.8	0.38793
6/9/04	1300	27.91	765	0	1.323	242.6	55.52	57.4	197.4	0.71073
6/9/04	1400	28.83	765	0	1.137	6.063	96.3	53.86	175.5	0.63187
6/9/04	1500	28.8	764	0	1.304	335.6	49.67	55	110.4	0.39749
6/9/04	1600	28.97	764	0	1.49	295.7	37.68	52.59	135.9	0.48913
6/9/04	1700	29.05	763	0	1.842	273.2	30.87	51.49	122	0.43921
6/9/04	1800	28.85	763	0	1.725	264.8	34.8	61.34	78.7	0.2833
6/9/04	1900	27.52	763	0	1.154	316.2	20.47	67.38	22.16	0.07979
6/9/04	2000	25.8	763	0	0.854	288.1	29.95	75.3	2.895	0.01042

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/9/04	2100	24.38	763	0	0.934	253	29.38	82.3	0.009	0.00003
6/9/04	2200	23.96	764	0	0.746	306.5	43.13	81.9	0.022	0.00008
6/9/04	2300	23.25	764	0	0.869	250	43.54	86.6	0.013	0.00005
6/9/04	2400	22.33	763	0	1.312	243.8	9.81	88.1	0.007	0.00003
6/10/04	100	22.31	763	0	1.308	245.6	21.27	80.5	0.004	0.00001
6/10/04	200	21.83	763	0	1.331	241.7	14.25	87.1	0.001	0
6/10/04	300	20.98	763	0	0.863	240.6	21.31	87	0	0
6/10/04	400	20.75	763	0	0.65	235.1	17.04	89.2	0	0
6/10/04	500	20.08	763	0	0.574	255.1	26.13	91.8	0.002	0.00001
6/10/04	600	19.95	763	0	0.778	257.1	19.43	90.8	8.74	0.03148
6/10/04	700	20.8	763	0	1.173	233.9	10.79	88.1	34.26	0.12334
6/10/04	800	22.56	763	0	1.902	226	14.82	82.7	97.1	0.34939
6/10/04	900	23.76	763	0	2.855	217.3	17.62	76.4	168.9	0.6079
6/10/04	1000	25.19	763	0	2.467	211.4	23.61	71.1	184.4	0.66402
6/10/04	1100	27.12	763	0	1.857	208.5	38.15	64.98	266.7	0.96009
6/10/04	1200	28.04	763	0	1.672	246.8	55.03	62.01	182.1	0.65572
6/10/04	1300	29.21	762	0	1.99	248	48.67	54.83	259.9	0.93552
6/10/04	1400	30.11	761	0	2.007	278.4	55.71	51.56	233.2	0.83943
6/10/04	1500	30.01	761	0	1.908	308.8	39.06	55.9	120.4	0.43354
6/10/04	1600	28.9	761	0	2.051	324.5	21.7	63.31	78.2	0.28137
6/10/04	1700	28.88	760	0	1.438	342.6	34.41	55.63	110.4	0.39732
6/10/04	1800	29.61	760	0	1.496	349.2	26.51	60.77	83.3	0.29977
6/10/04	1900	28.27	760	0	1.114	314.5	20.72	65.21	27.91	0.10049
6/10/04	2000	26.72	760	0	0.681	332.1	39.84	75.4	5.453	0.01963
6/10/04	2100	25.01	760	0	0.84	343.7	34.13	82.1	0.002	0.00001
6/10/04	2200	24.13	761	0	0.911	4.191	22.98	86.1	0.011	0.00004
6/10/04	2300	23.03	761	0	0.872	8.56	22.8	88.8	0.013	0.00005
6/10/04	2400	22.32	761	0	0.512	301.6	49.08	92	0.004	0.00002
6/11/04	100	21.76	761	0	0.31	338.4	41.02	92.4	0	0
6/11/04	200	21.28	761	0	0.455	346	30.92	93.5	0	0
6/11/04	300	20.76	760	0	0.67	1.084	20.92	94.2	0	0
6/11/04	400	20.4	760	0	0.94	16.72	15.46	94.8	0	0
6/11/04	500	20.02	760	0	0.51	291	52.33	95.1	0.007	0.00003
6/11/04	600	19.99	760	0	0.358	302.3	30.01	93.5	10.47	0.0377
6/11/04	700	21.12	761	0	0.4	306	46.35	87.7	49.18	0.17706
6/11/04	800	23.01	761	0	1.614	234.2	15.01	80.8	111.8	0.40262
6/11/04	900	25.09	761	0	2.374	221.2	19.57	76	170.6	0.61406
6/11/04	1000	26.79	761	0	2.877	219.5	19.7	69.05	217.3	0.78215
6/11/04	1100	28.54	761	0	2.879	214	27.63	63.64	226	0.81345
6/11/04	1200	29.94	761	0	2.838	254.4	28.99	58.87	227.7	0.81965
6/11/04	1300	30.53	760	0	3.264	229.2	25.39	55	231.2	0.8322
6/11/04	1400	31.88	760	0	3.749	257.1	26.93	48.16	255.7	0.92057
6/11/04	1500	32.03	759	0	3.379	270.6	55.78	54.83	201.2	0.72431

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/11/04	1600	32.32	759	0	2.891	266.6	30.87	43.72	159.2	0.5732
6/11/04	1700	32.25	759	0	3.055	272.7	22.03	47.32	116.1	0.41794
6/11/04	1800	30.81	759	0	2.067	257.5	20.08	49.59	65.88	0.23717
6/11/04	1900	30.4	759	0	2.22	257.9	16.97	57.07	43.63	0.15705
6/11/04	2000	28.33	759	0	0.951	232.7	16.89	66.11	5.339	0.01922
6/11/04	2100	26.65	760	0	0.758	264.3	36.45	71.9	0.006	0.00002
6/11/04	2200	25.4	760	0	0.584	279.1	20.15	77.8	0.019	0.00007
6/11/04	2300	24.18	760	0	0.823	257	40.65	82.8	0.026	0.0001
6/11/04	2400	23.55	761	0	0.797	272.3	36.23	85.1	0.016	0.00006
6/12/04	100	23	760	0	0.698	268.7	32.42	88.4	0.003	0.00001
6/12/04	200	22.47	760	0	0.471	272.6	20.28	89.7	0	0
6/12/04	300	22	760	0	0.392	294.2	26.53	91.3	0	0
6/12/04	400	21.56	760	0	1.177	235.8	17.24	93.2	0	0
6/12/04	500	21.2	760	0	0.977	232.6	16.05	92.9	0.004	0.00001
6/12/04	600	21.42	761	0	0.902	242.4	19.57	91.7	8.82	0.03175
6/12/04	700	22.51	761	0	1.013	235.7	11.11	87.1	41.29	0.14864
6/12/04	800	24.59	762	0	1.295	230.4	15.63	78.5	81.6	0.29375
6/12/04	900	26.69	762	0	1.662	231.8	37.19	68.18	156.5	0.5633
6/12/04	1000	28.73	762	0	2.136	261.7	30.89	62.41	197.7	0.71185
6/12/04	1100	29.4	762	0	1.757	314.3	58.31	58.17	167.8	0.60402
6/12/04	1200	30.65	762	0	1.686	353	57.51	48.76	247.8	0.89209
6/12/04	1300	31.73	762	0	1.813	282.7	65.26	46.92	238.2	0.85762
6/12/04	1400	31.5	761	0	2.17	282.5	49.31	55.8	156.8	0.56455
6/12/04	1500	31.4	761	0	2.984	354	27.5	54.1	206.4	0.74306
6/12/04	1600	30.58	760	0	3.501	11.41	74.4	73.3	137.8	0.49595
6/12/04	1700	24.42	761	0	4.699	151.2	29.05	74.8	51.58	0.18568
6/12/04	1800	24.72	761	0	2.677	75.1	63.26	67.05	52.72	0.18981
6/12/04	1900	25.53	761	0	2.063	308.1	36.02	71.1	11.9	0.04284
6/12/04	2000	24.51	763	0	2.171	18.19	28.81	73.2	1.873	0.00674
6/12/04	2100	23.9	762	0	1.739	90	31.22	74.3	0.026	0.00009
6/12/04	2200	23.26	763	0	1.008	36.15	55.51	77.4	0.018	0.00007
6/12/04	2300	22.91	763	0	0.815	144	72.6	81.6	0.005	0.00002
6/12/04	2400	22.31	763	0	1.304	267.7	38.22	85.1	0.005	0.00002
6/13/04	100	21.5	763	0	1.69	201.9	33.3	90	0.001	0
6/13/04	200	21.06	761	0	1.665	207.8	57.67	92.5	0	0
6/13/04	300	20.57	761	0	1.03	1.487	63.05	93.6	0	0
6/13/04	400	20.21	761	0	0.394	324	39	93.8	0	0
6/13/04	500	19.81	762	0	1.012	252.1	26.8	95.1	0.022	0.00008
6/13/04	600	19.85	763	0	0.774	289.9	59.22	94	6.783	0.02442
6/13/04	700	20.99	763	0	0.447	248	46.09	87	35.93	0.12934
6/13/04	800	22.88	764	0	1.325	217.8	19.07	78.3	94.1	0.33865
6/13/04	900	25.01	763	0	1.796	221.8	34.08	72.9	174.5	0.62827
6/13/04	1000	26.03	763	0	2.336	222.8	28.37	71.5	190.4	0.68539

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/13/04	1100	26.92	764	0	2.194	235.1	26.58	70.2	158	0.56896
6/13/04	1200	27.84	764	0	2.339	232.6	30.67	67.58	173.7	0.62538
6/13/04	1300	28.82	763	0	3.001	225	25.94	61.61	192.6	0.69343
6/13/04	1400	28.96	762	0	2.559	206.9	23.35	62.87	152.1	0.54753
6/13/04	1500	28.73	762	0	2.838	189.4	20.53	66.81	127.7	0.45978
6/13/04	1600	29.04	762	0	3.153	186.9	25.83	63.11	168.5	0.60668
6/13/04	1700	28.63	761	0	3.375	189.4	21.63	65.41	118	0.42469
6/13/04	1800	28.27	761	0	2.847	187.3	19.91	67.61	55.92	0.20131
6/13/04	1900	27.43	762	0	2.693	199.5	15.28	69.21	25.8	0.09289
6/13/04	2000	26.68	761	0	2.575	204	15.91	69.85	6.297	0.02267
6/13/04	2100	26.07	762	0	2.635	208.3	16.82	71.3	0.013	0.00005
6/13/04	2200	25.56	762	0	3.327	205.9	13.95	72	0.028	0.0001
6/13/04	2300	25.14	762	0	2.427	204.3	14.96	72.7	0.028	0.0001
6/13/04	2400	24.72	762	0	1.818	228.7	30.49	74.8	0.034	0.00012
6/14/04	100	24.42	762	0	2.136	242.8	16.95	77	0.027	0.0001
6/14/04	200	24.23	762	0	1.369	227.2	24.86	77.8	0.023	0.00008
6/14/04	300	23.75	762	0	0.622	268	64.41	82.7	0.012	0.00004
6/14/04	400	23.42	762	0	0.579	242.1	26.39	84.6	0.003	0.00001
6/14/04	500	23.21	762	0	0.458	284.5	49.77	86.7	0.004	0.00001
6/14/04	600	23.14	762	0	0.472	297	38.78	87.1	2.709	0.00975
6/14/04	700	23.7	763	0	0.852	109.9	68.05	83	21.12	0.07603
6/14/04	800	23.92	763	0.1	1.018	95.6	27.35	87.2	31.04	0.11174
6/14/04	900	24.07	763	0	1.236	115.9	29.53	84.9	53.62	0.19303
6/14/04	1000	25.55	763	0	1.849	129.8	34.22	71.6	220.4	0.79351
6/14/04	1100	27.31	762	0	1.474	159.3	41.18	65.14	254.3	0.91552
6/14/04	1200	28.61	762	0	3.045	181.2	32.46	59.37	259	0.93224
6/14/04	1300	29.15	762	0	2.806	174.5	22.41	58.37	199.8	0.71921
6/14/04	1400	30.34	762	0	1.975	196.1	41.61	55.03	212.6	0.76553
6/14/04	1500	31.29	761	0	3.317	203.8	27.57	47.92	210.4	0.75758
6/14/04	1600	31.14	760	0	2.907	204.1	22.46	48.52	139.6	0.50238
6/14/04	1700	31.2	760	0	2.95	204.3	24.66	55.7	103.6	0.37312
6/14/04	1800	29.73	760	0	2.22	201.1	14.53	55.97	37.32	0.13436
6/14/04	1900	29.06	760	0	1.195	226.6	29.15	64.34	23.63	0.08506
6/14/04	2000	27.12	760	0	0.815	334.6	55.12	78.6	4.808	0.01731
6/14/04	2100	26.56	761	0	2.099	129.9	30.22	73.6	0.007	0.00003
6/14/04	2200	24.35	761	7.9	3.085	154.1	87.2	92.4	0.008	0.00003
6/14/04	2300	23.3	762	0	0.897	243.9	39.74	95.1	0.012	0.00004
6/14/04	2400	23.1	762	0	1.195	16.85	60.21	93.4	0.003	0.00001
6/15/04	100	22.53	763	0	1.737	61.49	22.13	93	0.001	0
6/15/04	200	22.11	763	0	0.866	50.52	42.04	93.4	0.002	0.00001
6/15/04	300	22.01	762	0.1	1.334	59.6	54.51	93.7	0.001	0
6/15/04	400	21.98	762	0.5	0.958	18	33.39	95.1	0.001	0
6/15/04	500	21.98	762	0.6	0.708	255.8	89.1	95.6	0.001	0



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/15/04	600	22.17	762	0	0.824	149.7	26.05	95	6.296	0.02266
6/15/04	700	22.47	763	0.1	0.748	180	32	93.4	46.71	0.16817
6/15/04	800	23.04	763	0	0.53	179	57.79	91.8	87.7	0.31583
6/15/04	900	23.43	763	0	0.577	152.6	59.15	87.8	117.2	0.42206
6/15/04	1000	24.25	764	0	0.526	82.7	70.8	85.4	234.2	0.84327
6/15/04	1100	25.49	764	0	0.977	75	58.47	78.9	340.4	1.2254
6/15/04	1200	25.97	764	0	1.375	77.3	36.36	75.7	278.5	1.0025
6/15/04	1300	26.84	763	0	1.153	344.8	90.2	75.1	408.1	1.4693
6/15/04	1400	27.59	763	0	1.433	136.7	49.02	72.6	382.5	1.3771
6/15/04	1500	26.69	762	0.1	2.213	244.7	39.33	77.7	403.3	1.452
6/15/04	1600	26.41	762	0	2.082	63.24	48.59	76.8	215.3	0.77495
6/15/04	1700	27.19	762	0	1.757	25.93	25.18	74.4	280.3	1.0091
6/15/04	1800	25.8	762	1	2.759	120.8	62.23	92.3	53.87	0.19394
6/15/04	1900	23.11	762	0.5	1.245	66.51	66.14	93.8	16.84	0.06061
6/15/04	2000	22.88	762	0.2	1.314	34.97	17.9	94.7	3.067	0.01104
6/15/04	2100	22.7	763	0.1	0.553	35.4	33.58	94.6	0.006	0.00002
6/15/04	2200	22.82	763	0	0.564	54.47	61.58	93.8	0.001	0
6/15/04	2300	22.98	764	0.3	1.058	149.5	44.15	93.8	0.001	0
6/15/04	2400	22.77	764	0	0.859	150	62.91	94.4	0	0
6/16/04	100	22.6	764	0	0.542	250.6	69.45	95.2	0	0
6/16/04	200	22.34	764	0	0.554	302.6	47.53	95.7	0.001	0
6/16/04	300	22.38	763	0	0.424	301.2	43.72	95.8	0	0
6/16/04	400	22.44	763	0	0.441	236.6	41	95.8	0	0
6/16/04	500	22.38	763	0	0.742	224.8	17.33	95.1	0.002	0.00001
6/16/04	600	22.33	764	0	0.618	306.2	21.95	92.5	2.069	0.00745
6/16/04	700	22.37	764	0.1	0.926	220.5	16.06	93.4	18.78	0.06762
6/16/04	800	22.75	765	0	1.025	183.4	26.39	92	52.33	0.18839
6/16/04	900	23.16	765	0	0.913	217.1	21.56	91.5	76.2	0.27423
6/16/04	1000	24.12	765	0	1.222	230.7	36.37	86.5	231.7	0.83416
6/16/04	1100	25.56	766	0	2.088	220.8	25.26	80.3	317.2	1.1418
6/16/04	1200	27.24	766	0	2.677	221.1	24.7	72.9	589.4	2.1218
6/16/04	1300	28.67	765	0	2.918	199	28.46	69.85	585.9	2.1091
6/16/04	1400	29.34	764	0	2.396	186.1	30.34	64.94	547	1.9693
6/16/04	1500	27.81	764	0	2.481	315.6	57.91	66.94	296.9	1.0688
6/16/04	1600	28.09	764	0	1.262	10.16	43.99	63.61	476.4	1.7152
6/16/04	1700	30.26	764	0	1.243	295.2	68.22	60.97	404.3	1.4557
6/16/04	1800	30.41	764	0	1.578	176	30.28	62.34	236.8	0.85262
6/16/04	1900	29.36	763	0	1.451	176.2	19.19	70	58.56	0.2108
6/16/04	2000	27.62	763	0	0.876	222.4	28.61	79.7	14.47	0.05209
6/16/04	2100	27.02	764	0	0.978	233.7	25.58	77.6	0.003	0.00001
6/16/04	2200	26.46	764	0	1.236	215.8	18.3	74.9	0.007	0.00003
6/16/04	2300	25.8	764	0	1.701	213.6	11.42	75.5	0.02	0.00007
6/16/04	2400	25.05	765	0	1.679	219.5	17.9	82	0.023	0.00008

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/17/04	100	24.32	765	0	2.032	216.6	15.87	81	0.019	0.00007
6/17/04	200	23.69	764	0	1.433	217.7	24.95	83.7	0.015	0.00005
6/17/04	300	22.64	764	0	0.956	228.4	21.73	88.9	0.005	0.00002
6/17/04	400	21.9	764	0	0.98	238.7	19.05	90.9	0	0
6/17/04	500	21.43	764	0	1.103	233.6	8.87	92.5	0.032	0.00012
6/17/04	600	21.43	765	0	0.953	246.7	27.67	91	17.59	0.06331
6/17/04	700	22.34	765	0	1.124	237.4	20.05	85.6	115.3	0.4151
6/17/04	800	23.67	766	0	2.399	234.5	13.9	82.7	157.8	0.56791
6/17/04	900	24.75	766	0	2.389	233.8	20.16	74.9	352.4	1.2686
6/17/04	1000	26.61	766	0	2.449	215.3	24.54	67.71	551.2	1.9843
6/17/04	1100	28.01	766	0	2.219	219.3	31.88	67.85	614.5	2.2121
6/17/04	1200	29.01	765	0	1.94	206.3	55.79	64.81	547.3	1.9702
6/17/04	1300	29.75	765	0	2.479	190.2	42.5	60.5	511.8	1.8425
6/17/04	1400	30.03	764	0	2.286	187.9	28.84	62.51	354	1.2743
6/17/04	1500	26.85	764	0	2.847	309.6	45.29	84.1	73.3	0.26371
6/17/04	1600	23.62	765	1.5	1.909	357.9	59.64	85.9	127.7	0.45983
6/17/04	1700	24.66	764	0	1.228	23.19	77.4	82.2	234.5	0.84438
6/17/04	1800	25.59	764	0	1.428	211	48.25	79	228.2	0.82142
6/17/04	1900	25.73	763	0	1.507	184	23.21	81.3	103.9	0.37386
6/17/04	2000	24.89	763	0	0.998	203.3	35.5	87.1	12.7	0.04573
6/17/04	2100	23.88	764	0	0.703	262.7	34	91.3	0.058	0.00021
6/17/04	2200	23.43	764	0	0.643	296.7	57.16	92.6	0.012	0.00004
6/17/04	2300	23.03	764	0	0.622	1.047	35.93	93.7	0.006	0.00002
6/17/04	2400	22.75	764	0	0.71	5.717	31.96	94.1	0.002	0.00001
6/18/04	100	22.46	764	0	1.115	236.7	43.52	95	0.001	0
6/18/04	200	22.52	763	0	1.596	239.3	19.69	93.7	0.001	0
6/18/04	300	22.31	763	0	1.264	222.6	22.13	91.9	0	0
6/18/04	400	21.76	763	0	1.197	237.1	32.93	93.7	0	0
6/18/04	500	21.37	763	0	1.306	220.7	14.1	95.9	0.025	0.00009
6/18/04	600	21.71	764	0	1.181	248.2	38.28	96.6	8.1	0.02914
6/18/04	700	22.06	764	0	1.553	249	33.02	96.8	63.61	0.22898
6/18/04	800	23.23	764	0	2.126	217.9	15.75	86.9	240.4	0.86539
6/18/04	900	25.12	764	0	2.219	214.8	22.36	79.6	282.8	1.0182
6/18/04	1000	26.16	764	0	2.461	240.9	33.77	67.78	412	1.4832
6/18/04	1100	26.86	765	0	2.183	254	22.74	69.58	381.4	1.3731
6/18/04	1200	27.99	764	0	2.208	244.5	35.94	64.88	675.3	2.431
6/18/04	1300	29.23	764	0	2.132	274.8	57.6	58.37	784	2.8207
6/18/04	1400	29.78	764	0	2.325	235.7	33.96	61.34	668.4	2.4063
6/18/04	1500	29.84	763	0	2.631	225.8	30.65	58.6	563.9	2.0301
6/18/04	1600	30.06	763	0	2.868	231.4	29.76	59.64	498.7	1.7953
6/18/04	1700	30.29	762	0	2.466	231.2	30.86	57.07	435.9	1.5691
6/18/04	1800	30.18	762	0	2.126	264.1	25.54	59.4	264.7	0.95301
6/18/04	1900	29.74	762	0	1.129	286.1	31.99	64.68	109	0.39252

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/18/04	2000	27.83	762	0	1.084	305.2	86.4	70.6	18.7	0.06733
6/18/04	2100	25.9	762	0	0.537	331.4	57.27	78.5	0.024	0.00009
6/18/04	2200	24.74	763	0	0.724	332.2	50.85	84.5	0.021	0.00007
6/18/04	2300	23.86	763	0	0.449	310.2	40.45	88.1	0.025	0.00009
6/18/04	2400	23.24	763	0	0.339	278.1	29.64	90.8	0.013	0.00005
6/19/04	100	22.82	763	0	0.405	353.4	25.64	91.6	0.003	0.00001
6/19/04	200	22.23	763	0	0.44	343.8	35.12	92.9	0.001	0
6/19/04	300	21.67	763	0	0.838	268.4	58.51	94.8	0	0
6/19/04	400	21.36	763	0	0.889	7.23	58.08	94.5	0	0
6/19/04	500	21.06	762	0	0.998	241.7	11.54	95.1	0.033	0.00012
6/19/04	600	21.21	762	0	0.679	239.6	23.49	94.8	17.69	0.06369
6/19/04	700	21.9	763	0	1.027	212	17.88	92.9	69.64	0.25071
6/19/04	800	23.67	763	0	1.568	221.3	23.48	84.7	196.9	0.70893
6/19/04	900	25.09	763	0	2.275	249.8	25.79	78.2	226.6	0.81573
6/19/04	1000	26.34	763	0	2.107	232.7	35.82	69.98	415	1.4939
6/19/04	1100	27.96	763	0	2.91	274.1	29.4	61.61	521.3	1.8765
6/19/04	1200	29.04	763	0	3.097	293.4	35.32	60.24	718	2.5839
6/19/04	1300	29.31	763	0	3.218	303	40.93	59.64	651.2	2.3444
6/19/04	1400	29.54	763	0	3.134	293.9	31.48	53.96	741	2.6662
6/19/04	1500	29.72	762	0	3.419	324.4	39.37	55.9	501.7	1.806
6/19/04	1600	29.92	762	0	3.028	339.7	33.88	51.93	570.4	2.0536
6/19/04	1700	29.84	762	0	3.027	352.8	24.39	51.09	432.8	1.558
6/19/04	1800	28.98	762	0	3.233	345.6	22.6	55.7	273	0.98263
6/19/04	1900	27.86	761	0	3.124	359.3	19.84	56.77	116.8	0.42057
6/19/04	2000	26.16	762	0	2.469	27.08	20.08	63.77	16.78	0.06039
6/19/04	2100	24.86	762	0	2.198	37.6	18.72	69.6	0.066	0.00024
6/19/04	2200	23.86	763	0	1.872	34.27	13.33	72.5	0.012	0.00004
6/19/04	2300	23.13	763	0	1.811	37.52	18.73	75.1	0.007	0.00002
6/19/04	2400	22.19	763	0	1.483	19.84	26.34	77.2	0.002	0.00001
6/20/04	100	21.66	763	0	1.735	36.32	18.18	79.2	0	0
6/20/04	200	20.73	762	0	1.852	39.53	17.49	80.2	0	0
6/20/04	300	20.07	762	0	1.466	31.88	21.76	83.3	0.001	0
6/20/04	400	19.37	762	0	0.849	28.76	18.14	84	0.011	0.00004
6/20/04	500	18.99	763	0	0.896	26.82	32.55	85.1	0.069	0.00025
6/20/04	600	18.7	763	0	0.523	347.8	17.43	85.2	19.7	0.0709
6/20/04	700	19.87	763	0	0.941	2.726	13.79	80.7	125.3	0.45122
6/20/04	800	21.71	763	0	2.276	22.69	18.74	72.8	277.1	0.9977
6/20/04	900	22.67	763	0	2.08	20.71	18.64	70.3	324.6	1.1685
6/20/04	1000	24.31	763	0	1.61	30.11	46.06	61.81	563.7	2.0291
6/20/04	1100	25.32	763	0	1.967	3.53	53.41	54.26	578.8	2.0836
6/20/04	1200	26.37	763	0	2.029	23.6	58.9	51.16	772	2.7804
6/20/04	1300	26.63	762	0	1.986	57.5	57.94	49.56	528.5	1.9027
6/20/04	1400	27.17	762	0	1.954	67.01	64.85	53.13	612.6	2.2054

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/20/04	1500	28.08	762	0	2.416	352.5	58.49	47.16	687.9	2.4763
6/20/04	1600	28.3	761	0	1.814	302.7	55.64	48.96	590.6	2.1261
6/20/04	1700	28.25	761	0	2.034	27.74	27.65	46.85	444.1	1.5988
6/20/04	1800	28.08	761	0	1.547	17.68	46.42	47.99	284.9	1.0257
6/20/04	1900	27.29	761	0	1.868	27.01	23.33	53.66	131.9	0.47476
6/20/04	2000	25.32	761	0	1.298	44	27.39	64.62	11.52	0.04148
6/20/04	2100	23.67	761	0	0.913	11.94	31.7	66.17	0.076	0.00027
6/20/04	2200	22.63	761	0	1.009	29.46	30.03	70.1	0.001	0
6/20/04	2300	22.35	761	0	1.348	30.73	17.83	66.8	0.001	0
6/20/04	2400	22.02	761	0	0.934	17.25	27.72	68.3	0.001	0
6/21/04	100	21.42	761	0	0.619	359.1	51.08	70.3	0	0
6/21/04	200	20.84	761	0	0.7	9.06	20.58	74.5	0	0
6/21/04	300	20.63	760	0	1.419	25.62	18.07	72.5	0	0
6/21/04	400	20.4	760	0	1.998	27.06	13.63	75.5	0	0
6/21/04	500	20.12	760	0	1.76	25.85	13.86	77.4	0	0
6/21/04	600	19.89	760	0	1.151	17.27	18.2	81.5	6.441	0.02319
6/21/04	700	20.35	760	0	1.288	13.53	30.55	75.6	98.6	0.35504
6/21/04	800	21.07	760	0	1.877	10.17	15.74	75.3	121.9	0.43871
6/21/04	900	21.51	760	0	1.774	15.97	19.47	75.7	108.2	0.38946
6/21/04	1000	21.61	760	0.3	2.046	15.18	21.89	83.9	95.1	0.3422
6/21/04	1100	20.79	760	0	1.619	23.55	33.66	86.6	131.5	0.47323
6/21/04	1200	23.39	760	0	1.259	71.2	53.91	74.4	603.7	2.1735
6/21/04	1300	25.63	759	0	1.818	96	28.74	69.68	711	2.5597
6/21/04	1400	27.39	759	0	1.841	147.2	50.66	65.21	647.7	2.3317
6/21/04	1500	28.49	758	0	2.55	118.9	27.03	58.64	628.6	2.2628
6/21/04	1600	29.19	758	0	2.388	135.5	28.79	54.2	469.9	1.6915
6/21/04	1700	28.67	757	0	3.101	109.8	29.13	63.31	332	1.1953
6/21/04	1800	27.09	757	0.2	2.397	67.71	63.77	87.5	37.08	0.13347
6/21/04	1900	21.2	758	32.7	2.864	346.7	66.7	97.1	5.213	0.01877
6/21/04	2000	20.51	758	6	3.666	149.3	28.87	97	16.75	0.06028
6/21/04	2100	20.18	759	2.3	2.044	166.2	50.74	97.1	0.002	0.00001
6/21/04	2200	20.22	759	0.3	1.069	231.3	40.04	97.4	0	0
6/21/04	2300	20.25	759	0	0.806	267.8	53.74	97.5	0	0
6/21/04	2400	20.1	759	0	1.003	214.2	54.61	97.7	0	0
6/22/04	100	20.34	759	0	1.115	224.1	27.37	97.7	0	0
6/22/04	200	20.22	759	0	0.618	229.2	38.18	97.7	0	0
6/22/04	300	20.07	758	0	0.972	218.6	14.58	97.8	0	0
6/22/04	400	20.23	758	0	0.92	225.7	17.5	97.7	0	0
6/22/04	500	20.43	759	0	1.218	224.2	18.1	97.6	0.029	0.0001
6/22/04	600	20.61	759	0	1.477	211.8	13.74	97	15.12	0.05444
6/22/04	700	21.22	760	0	1.548	208.7	20.27	94.9	73.9	0.26593
6/22/04	800	22.25	760	0	1.808	220.5	17.85	91.4	156.2	0.56242
6/22/04	900	23.1	760	0	2.6	225.7	15.83	87.2	225.4	0.81144

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/22/04	1000	23.59	760	0.1	2.846	226.6	16.12	90.4	169	0.60833
6/22/04	1100	22.91	760	0.5	2.707	217.7	15.63	92.1	73.2	0.26347
6/22/04	1200	20.64	761	1.6	2.15	203.9	37.48	93	174.6	0.62872
6/22/04	1300	22.58	761	0	1.823	202	24.05	84.5	545	1.962
6/22/04	1400	25.14	760	0	2.014	191.1	34.22	74.7	719	2.5867
6/22/04	1500	26.46	760	0	2.286	189.2	46.91	72.7	734	2.6418
6/22/04	1600	26.47	759	0	2.163	181	32.29	63.84	402.8	1.4499
6/22/04	1700	27.5	759	0	2.06	176.3	27.46	67.85	477.9	1.7204
6/22/04	1800	26.87	759	0	2.126	168	22.14	68.81	169.5	0.61033
6/22/04	1900	26.4	759	0	1.998	181.9	21.43	75.9	62.5	0.22499
6/22/04	2000	25.3	759	0	1.694	215.6	15.44	83.2	18.99	0.06837
6/22/04	2100	24.67	760	0	0.938	208.1	37.84	81	0.049	0.00018
6/22/04	2200	24.23	759	0	1.447	226	27.81	88.9	0.023	0.00008
6/22/04	2300	23.54	760	0	1.049	230.6	32.16	90.4	0.02	0.00007
6/22/04	2400	22.98	760	0	1.101	240.4	14.49	92.8	0.01	0.00004
6/23/04	100	22.68	761	0	1.272	221.7	13.15	91.4	0.018	0.00007
6/23/04	200	22.61	760	0	1.332	220.3	16.07	93.9	0.02	0.00007
6/23/04	300	22.07	760	0.1	1.86	216.9	15.28	91.8	0.011	0.00004
6/23/04	400	21.4	760	0	1.422	218.3	17.96	94.6	0.002	0.00001
6/23/04	500	21.6	761	0	2.152	218.5	19.04	92.4	0.008	0.00003
6/23/04	600	21.48	761	0	1.906	216.7	16.41	92.6	3.642	0.01311
6/23/04	700	21.47	761	0	2.17	208.1	15.76	90.9	47.71	0.17175
6/23/04	800	21.84	762	0	2.407	214.5	15.18	90	84	0.3025
6/23/04	900	22.23	762	0	2.705	219.6	16.1	88.2	134.4	0.48369
6/23/04	1000	22.51	762	0	2.296	208.1	17.29	89.6	99.3	0.35747
6/23/04	1100	22.66	762	0	2.617	199.9	20.06	87.4	228	0.82064
6/23/04	1200	23.69	762	0	3.145	200.1	17.58	83.1	261.7	0.94203
6/23/04	1300	23.54	762	1.2	2.148	212.8	14.89	91.5	183.1	0.65909
6/23/04	1400	23.22	762	0.7	2.508	237.1	18.11	90.6	177.5	0.63911
6/23/04	1500	23.37	762	0.2	2.408	260.9	17.18	85.6	291.2	1.0485
6/23/04	1600	22.79	762	0.3	1.958	258	19.38	92.2	90.6	0.32602
6/23/04	1700	22.11	762	0.3	1.946	216.4	15.15	94.2	71.4	0.25712
6/23/04	1800	21.82	762	0.1	1.505	212.7	15.94	94	75.8	0.27299
6/23/04	1900	21.83	762	0	1.66	174.2	19.75	93.3	65.27	0.23499
6/23/04	2000	21.56	762	0	1.904	204.5	14.32	94.3	8.92	0.0321
6/23/04	2100	21.32	762	0	1.42	211.2	20.7	94.1	0.06	0.00021
6/23/04	2200	21.37	762	0	1.139	206.9	29.07	93.2	0.002	0.00001
6/23/04	2300	21.15	762	0	0.771	267.5	45.11	95	0.001	0
6/23/04	2400	21.13	762	0	0.827	244.6	35.14	95.6	0	0
6/24/04	100	21.03	762	0	0.762	222.4	27.8	95.5	0.001	0
6/24/04	200	20.87	762	0	0.702	262.1	42.62	95.6	0	0
6/24/04	300	20.81	762	0	1.142	211.6	16.72	95.2	0	0
6/24/04	400	20.69	762	0	1.051	224.7	18.91	95.6	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/24/04	500	20.51	762	0	1.423	248.1	21.2	96.5	0.003	0.00001
6/24/04	600	20.47	763	0	1.324	260.3	17.67	95.6	11.24	0.04046
6/24/04	700	20.95	763	0	1.63	274	25.71	92.1	44.67	0.16081
6/24/04	800	21.4	764	0	1.93	276.4	23.85	87.2	129.2	0.46512
6/24/04	900	22.33	764	0	1.854	300.1	33.81	81.6	341.1	1.2278
6/24/04	1000	23.65	764	0	1.534	323.7	57.94	69.38	465.1	1.6743
6/24/04	1100	25.14	764	0	1.469	348.6	39.65	64.94	667.8	2.4042
6/24/04	1200	25.76	764	0	1.456	0.953	84.3	62.74	594.4	2.1399
6/24/04	1300	26.79	764	0	1.318	122.4	57.67	56.9	802	2.8854
6/24/04	1400	27.29	764	0	1.675	151.2	66.78	60.47	593.3	2.1357
6/24/04	1500	27.68	763	0	1.713	196	45.74	54.43	535.8	1.929
6/24/04	1600	27.55	763	0	2.063	211.2	25.06	62.41	362.8	1.306
6/24/04	1700	27.47	763	0	2.068	205.4	21.7	62.37	313	1.1268
6/24/04	1800	26.62	763	0	2.23	215.7	20.1	69.68	116.1	0.41799
6/24/04	1900	25.06	763	0	2.823	213.4	18.3	75.4	60.67	0.2184
6/24/04	2000	24.06	763	0	2.161	206	14.22	80.3	7.52	0.02708
6/24/04	2100	23.34	764	0	2.152	199.1	14.86	82	0.055	0.0002
6/24/04	2200	22.8	764	0	2.059	201.8	15.03	85.2	0.014	0.00005
6/24/04	2300	22.37	764	0	1.622	208.6	15.77	88.3	0.009	0.00003
6/24/04	2400	22.12	764	0	1.435	208.3	12.43	88.6	0.004	0.00001
6/25/04	100	21.98	764	0	1.258	211.8	10.87	89	0.006	0.00002
6/25/04	200	21.79	764	0	1.668	209.8	12.33	88.3	0.002	0.00001
6/25/04	300	21.66	763	0	1.9	217.4	15.56	92.3	0.003	0.00001
6/25/04	400	21.14	763	0.1	1.475	211.6	13.53	93.4	0.001	0
6/25/04	500	21.04	763	0.2	1.536	214.1	14.66	94	0.001	0
6/25/04	600	20.85	763	0.2	1.236	211.5	13.47	95.1	7.01	0.02525
6/25/04	700	20.83	763	0.3	1.263	213.3	14.18	94.7	25.2	0.09072
6/25/04	800	21.02	763	0.1	1.214	224.1	20.27	92.4	84.6	0.30462
6/25/04	900	21.15	763	0.6	1.245	224.1	15.88	93.4	90.6	0.32605
6/25/04	1000	21.21	763	0.8	0.582	165.7	40.49	91.5	90.8	0.32697
6/25/04	1100	21.14	763	0.7	1.38	83.1	39.35	92.2	111.1	0.39987
6/25/04	1200	21.44	762	0.9	1.29	93.8	43.74	93.1	166.2	0.59815
6/25/04	1300	21.19	762	4.1	1.491	65.95	33.79	95.5	61.57	0.22165
6/25/04	1400	20.76	761	3.2	1.166	331.9	85.8	94.7	55.04	0.19816
6/25/04	1500	19.86	761	0.4	1.921	2.578	23.43	91.2	117.6	0.42332
6/25/04	1600	20.36	761	0	1.352	17.64	40.79	89.8	135.1	0.48627
6/25/04	1700	20.75	761	0	1.347	20.85	51.49	92.8	100.3	0.36115
6/25/04	1800	21.35	760	0	1.387	33.02	43.15	91.7	77	0.27709
6/25/04	1900	21.6	760	0	1.631	15.48	23.72	91.2	46.14	0.16612
6/25/04	2000	21.15	760	0	0.903	4.286	38.87	93.1	6.047	0.02177
6/25/04	2100	20.67	761	0	0.516	355	45.54	94	0.032	0.00012
6/25/04	2200	20.26	760	0	0.639	349.5	21.01	95.6	0	0
6/25/04	2300	20	761	0	0.993	354.5	21.15	96	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/25/04	2400	19.72	761	0	0.928	264.6	59.6	96.6	0	0
6/26/04	100	19.38	761	0	0.792	347.6	77.3	97.1	0	0
6/26/04	200	19.09	761	0	0.757	17.34	37.7	97.1	0	0
6/26/04	300	18.74	761	0	0.807	291.8	45.97	97.1	0.002	0.00001
6/26/04	400	18.65	761	0	0.317	346.9	50.75	96.6	0.006	0.00002
6/26/04	500	18.42	761	0	0.887	252.8	20.3	96.9	0.014	0.00005
6/26/04	600	18.39	762	0	0.282	305.4	43.52	96.9	13.79	0.04965
6/26/04	700	18.97	762	0	0.752	19.47	20.48	95.6	79.6	0.28664
6/26/04	800	19.94	763	0	0.825	182.1	77.7	92.5	131.6	0.47384
6/26/04	900	21.01	763	0	0.889	197.3	27.8	85.1	293.4	1.0561
6/26/04	1000	22.22	763	0	0.991	213.8	46.77	78.5	320.1	1.1525
6/26/04	1100	23.82	764	0	1.118	165.9	60.65	71.4	602	2.1673
6/26/04	1200	24.9	764	0	0.753	156.7	52.01	65.44	497.2	1.7899
6/26/04	1300	25.37	763	0	1.331	128.4	72.8	65.88	506.5	1.8232
6/26/04	1400	26.18	763	0	1.844	225.8	42.37	62.71	535.5	1.9279
6/26/04	1500	26.2	763	0	2.189	205.2	40.61	60.27	480.1	1.7284
6/26/04	1600	25.9	762	0	2.336	336.2	59.52	69.15	348.9	1.2561
6/26/04	1700	24.96	762	0	2.726	23.33	15.65	72.1	217.8	0.78423
6/26/04	1800	24.24	762	0	2.566	12.17	18.75	70.8	85.7	0.3086
6/26/04	1900	23.42	763	0	2.195	18.95	18.82	71.3	67.23	0.24204
6/26/04	2000	22.65	763	0	1.949	34.39	12.81	73.3	7.11	0.0256
6/26/04	2100	21.7	763	0	2.006	28.68	15.84	74.9	0.049	0.00018
6/26/04	2200	21.15	764	0	1.633	40.82	17.33	75.5	0.001	0
6/26/04	2300	20.86	764	0	1.555	36.01	15.29	75.9	0	0
6/26/04	2400	20.52	764	0	1.573	37.64	18.99	76.1	0	0
6/27/04	100	19.89	764	0	1.747	24.08	14.88	75.3	0	0
6/27/04	200	19.33	764	0	1.664	31.67	13.15	74.1	0	0
6/27/04	300	18.8	764	0	1.807	31.98	11.96	73.6	0.001	0
6/27/04	400	18.19	764	0	1.545	28.83	11.71	75.3	0.011	0.00004
6/27/04	500	17.77	764	0	1.458	35.93	13.34	77.6	0.052	0.00019
6/27/04	600	17.67	765	0	1.841	27.88	10.92	77.3	13.01	0.04684
6/27/04	700	18.26	765	0	1.764	28.68	13.56	77.3	64.41	0.23188
6/27/04	800	19.27	765	0	2.329	18.45	12.98	77.8	159.1	0.57279
6/27/04	900	20.3	765	0	2.589	19.03	16.13	73.4	269.1	0.96883
6/27/04	1000	22.12	765	0	2.558	37.41	28.44	69.04	507.9	1.8284
6/27/04	1100	23.63	765	0	1.907	30.13	32.62	66.51	574.8	2.0693
6/27/04	1200	24.37	765	0	2.156	8.2	34.96	64.88	492.2	1.772
6/27/04	1300	25.34	765	0	1.985	356.2	30.39	61.37	597.4	2.1507
6/27/04	1400	25.39	764	0	1.537	353.4	43.88	66.88	370.2	1.3326
6/27/04	1500	24.73	764	0	1.632	341.1	21.94	66.04	180.2	0.64857
6/27/04	1600	24.62	764	0	1.56	356.3	16.66	66.49	139.3	0.50162
6/27/04	1700	24.58	763	0	0.805	40.39	34.33	64.56	178.1	0.64129
6/27/04	1800	24.87	763	0	1.384	28.36	37.92	62.78	188.8	0.67968

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/27/04	1900	24.77	763	0	1.322	4.017	21.41	71.3	107.4	0.38651
6/27/04	2000	22.84	764	0	0.784	11.98	35.34	81	12.25	0.04411
6/27/04	2100	21.63	764	0	0.672	13.07	38.51	81.7	0.106	0.00038
6/27/04	2200	21.04	764	0	0.691	0.33	43.27	85.3	0.001	0
6/27/04	2300	19.91	764	0	0.514	318.7	35.23	88.5	0	0
6/27/04	2400	18.89	764	0	0.913	13.44	24.49	93.6	0.001	0
6/28/04	100	18.38	764	0	0.726	0.743	21.68	94.6	0.019	0.00007
6/28/04	200	17.99	763	0	0.489	5.492	25.23	95.4	0.01	0.00004
6/28/04	300	17.71	763	0	1.171	24.17	16.22	95.1	0.023	0.00008
6/28/04	400	17.68	763	0	0.652	349.7	43.18	95.3	0.031	0.00011
6/28/04	500	17.26	763	0	0.387	271.1	32.71	96.1	0.068	0.00024
6/28/04	600	17.33	763	0	0.661	231.9	39.95	96.2	16.65	0.05996
6/28/04	700	18.26	764	0	0.693	263.1	45.11	93.7	61.13	0.22007
6/28/04	800	19.63	764	0	0.828	336.7	20.58	85.8	190.2	0.68483
6/28/04	900	21.08	764	0	1.312	230.1	27.55	86.7	173.9	0.62607
6/28/04	1000	21.62	765	0	1.085	224.4	23.87	84.7	162.5	0.58511
6/28/04	1100	22.34	765	0	1.773	217.2	20.47	79.4	268.1	0.96501
6/28/04	1200	22.88	765	0	1.632	227.3	33.34	80.7	195.3	0.70325
6/28/04	1300	23	765	0	1.125	283.2	36.17	74	235.3	0.84717
6/28/04	1400	23.28	764	0	1.417	304.3	28.42	60.09	241.1	0.86806
6/28/04	1500	23.4	764	0	1.503	308	18.91	64.8	320.6	1.1541
6/28/04	1600	24.73	764	0	1.93	339.4	31.85	60	601.9	2.1667
6/28/04	1700	24.95	764	0	1.882	253.2	31.36	49.02	373	1.3429
6/28/04	1800	25.22	763	0	1.426	251.4	30.2	55.23	271	0.97547
6/28/04	1900	25.02	763	0	1.091	267.6	35.4	68.11	144.8	0.52111
6/28/04	2000	22.58	763	0	0.829	278.3	23.96	79.7	22.63	0.08147
6/28/04	2100	21.23	764	0	1.171	249.6	11.43	85.5	0.073	0.00026
6/28/04	2200	20.35	764	0	1.025	257.1	17.09	89.9	0	0
6/28/04	2300	19.77	765	0	0.958	248.9	13.16	92.1	0	0
6/28/04	2400	19.68	765	0	0.626	278.3	29.95	92.8	0	0
6/29/04	100	19.01	765	0	0.657	337.4	50.79	94.3	0.001	0
6/29/04	200	18.47	765	0	0.682	290.1	53.8	95.6	0.001	0
6/29/04	300	17.83	765	0	1.183	243.9	12.37	96.2	0.005	0.00002
6/29/04	400	17.79	765	0	0.407	306.9	47.92	95.7	0.015	0.00005
6/29/04	500	17.89	765	0	0.547	241.4	50.53	96.6	0.043	0.00016
6/29/04	600	17.96	765	0	0.798	237.3	15.52	97.3	10.9	0.03924
6/29/04	700	18.45	765	0	1.135	235.8	8.19	94.6	54.16	0.19498
6/29/04	800	20.04	766	0	1.277	233.5	17.15	83.6	250.1	0.90036
6/29/04	900	22.34	766	0	0.982	226	50.43	76.4	434.9	1.5656
6/29/04	1000	23.76	766	0	1.174	271.8	57.55	75	580.3	2.0892
6/29/04	1100	24.87	766	0	1.573	234.3	45.77	66.64	545.6	1.9643
6/29/04	1200	25.28	766	0	1.44	274.4	59.9	69.58	355.3	1.2792
6/29/04	1300	26.26	766	0	1.618	258	50.27	59	615.9	2.2174



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
6/29/04	1400	27.26	766	0	1.506	273.3	74.6	51.99	765	2.7536
6/29/04	1500	27.91	765	0	1.551	262.3	46.8	47.92	668.1	2.405
6/29/04	1600	28.12	765	0	1.365	289.1	42.01	50.29	441.1	1.5879
6/29/04	1700	28.5	764	0	1.502	304.9	34.09	50.79	399.2	1.437
6/29/04	1800	27.63	764	0	1.893	285.8	23	58.6	213	0.76679
6/29/04	1900	26.17	764	0	1.269	314.4	16.75	67.45	57.6	0.20735
6/29/04	2000	24.93	764	0	0.932	317.5	46.05	71.8	11.32	0.04073
6/29/04	2100	23.89	764	0	0.88	350.2	26.37	80.3	0.06	0.00022
6/29/04	2200	23.25	765	0	0.712	338	37.18	82	0.011	0.00004
6/29/04	2300	23.07	765	0	1.009	339.8	44.86	79.9	0.012	0.00004
6/29/04	2400	22.55	765	0	0.708	350.7	36.66	83.9	0.006	0.00002
6/30/04	100	21.59	765	0	1.154	248.5	21.07	88.2	0.002	0.00001
6/30/04	200	21.02	765	0	0.845	344.4	63.5	90.1	0	0
6/30/04	300	20.78	765	0	0.955	17.61	18.29	89.8	0	0
6/30/04	400	20.61	765	0	1.383	26.34	11.39	91	0	0
6/30/04	500	20.45	765	0	0.551	351.2	25.01	91.7	0	0
6/30/04	600	20.41	765	0	0.857	7.03	23.78	91.8	3.566	0.01284
6/30/04	700	20.8	765	0	1.24	23.47	21.17	88.4	52.37	0.18853
6/30/04	800	21.71	765	0	1.359	27.97	18.43	84.4	135.4	0.48754
6/30/04	900	23	766	0	0.84	49.6	53.11	77.8	240.2	0.8646
6/30/04	1000	24.7	766	0	1.231	11.52	44.21	76.9	367.4	1.3225
6/30/04	1100	24.59	766	0	1.676	337.3	23.57	75.2	315.7	1.1363
6/30/04	1200	25.22	765	0.2	1.634	333.5	64.89	86.2	265.8	0.95688
6/30/04	1300	24.04	765	0	1.982	356.8	36.98	86.2	194.3	0.69962
6/30/04	1400	24.28	765	0	1.726	359.4	31.34	78.2	407.7	1.4677
6/30/04	1500	24.55	765	0	1.713	1.337	35.91	78.2	253.9	0.91392
6/30/04	1600	24.67	764	0	2.472	240.5	28.21	79.4	207.4	0.74652
6/30/04	1700	24.42	764	0	2.477	226.8	13.22	77.8	200.3	0.72114
6/30/04	1800	24.58	764	0	2.247	204.9	24.74	76.1	196.1	0.70603
6/30/04	1900	24.1	764	0	1.802	194.4	19.7	78.3	72.8	0.26222
6/30/04	2000	23.18	764	0	1.259	214	18.61	83	18.15	0.06532
6/30/04	2100	22.01	764	0	1.147	236	17.26	89.5	0.06	0.00021
6/30/04	2200	21.35	764	0	0.911	237.2	23.21	91	0.005	0.00002
6/30/04	2300	20.97	765	0	0.566	299.3	26.86	91.7	0	0
6/30/04	2400	20.85	765	0	0.655	270.8	39.89	92.1	0.001	0
7/1/04	100	20.97	765	0	0.896	238.5	17.71	92.4	0.002	0.00001
7/1/04	200	20.87	765	0	1.041	218.9	14.55	92.6	0.002	0.00001
7/1/04	300	20.73	765	0	0.974	212.3	12.08	92.5	0.001	0
7/1/04	400	20.74	765	0	1.154	214.7	12.15	92.6	0.004	0.00001
7/1/04	500	20.59	764	0	1.14	215.6	14.87	92.7	0.006	0.00002
7/1/04	600	20.4	765	0	1.045	216.9	14.2	93.2	9.02	0.03249
7/1/04	700	20.76	765	0	0.629	210.7	26.24	89.2	59.21	0.21315
7/1/04	800	21.13	765	0.1	1.248	225.5	20.5	93.7	76.2	0.27449

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/1/04	900	21.15	765	0.3	1.43	210.5	21.85	93.1	109.8	0.39523
7/1/04	1000	21.63	765	0	1.47	209.5	18.37	87.1	231.6	0.8339
7/1/04	1100	23.69	765	0	1.986	220.1	24.99	79	442.8	1.5939
7/1/04	1200	24.89	765	0	1.88	191.6	42	76.5	493.9	1.7779
7/1/04	1300	25.59	765	0	2.291	190.3	29.37	74.3	375.9	1.3531
7/1/04	1400	25.76	764	0	2.372	217.5	28.56	69.41	334	1.2022
7/1/04	1500	25.97	764	0	2.783	233.6	25.73	75.2	340.9	1.2273
7/1/04	1600	24.49	764	0	3.211	241.2	22.66	83.3	125.7	0.45246
7/1/04	1700	23.87	764	0	2.731	241.8	17.06	84	77.4	0.27848
7/1/04	1800	23.41	764	0	1.935	224.5	17.81	84	99.4	0.35766
7/1/04	1900	23.37	763	0	1.566	209.4	13.68	85	53.64	0.19312
7/1/04	2000	23.03	764	0	1.101	198.2	20.84	86.9	8.99	0.03235
7/1/04	2100	22.5	764	0	1.402	214.7	12.41	90	0.057	0.00021
7/1/04	2200	22.22	764	0	1.666	219.9	14.9	90.1	0.031	0.00011
7/1/04	2300	21.88	764	0	1.706	215.6	12.55	91.9	0.03	0.00011
7/1/04	2400	21.31	764	0	1.378	209.2	8.14	91.3	0.018	0.00006
7/2/04	100	20.82	764	0	1.36	210.8	9.82	93.3	0.014	0.00005
7/2/04	200	20.5	764	0	1.256	222.7	19.92	94.6	0.002	0.00001
7/2/04	300	20.4	764	0	0.808	250	31.22	95.3	0.004	0.00001
7/2/04	400	20.44	764	0	0.478	251.3	29.1	95.1	0.004	0.00002
7/2/04	500	20.53	764	0	0.568	271.6	28.95	95.2	0.003	0.00001
7/2/04	600	20.36	764	0	0.991	219.6	7.84	95.9	6.25	0.0225
7/2/04	700	20.52	764	0	1.209	218.6	14.66	95.3	30.13	0.10848
7/2/04	800	21.25	764	0	0.93	213.6	23.32	91.2	92.9	0.33451
7/2/04	900	22.15	764	0	1.222	217.4	20.27	87.7	144.4	0.51978
7/2/04	1000	22.69	764	0	1.684	221.5	19.78	85.2	201.1	0.72407
7/2/04	1100	23.53	764	0	1.561	248.8	38.89	81	283.2	1.0197
7/2/04	1200	24.7	764	0	1.561	283.9	42.58	74	412.3	1.4844
7/2/04	1300	25.88	764	0	1.314	293.9	51.73	67.41	459.5	1.6543
7/2/04	1400	26.68	763	0	1.44	234.3	62.29	66.24	565.2	2.0347
7/2/04	1500	27.56	762	0	1.637	219.1	71.1	59.04	578.2	2.0816
7/2/04	1600	28.43	762	0	1.825	295	55.07	54.03	608	2.1889
7/2/04	1700	28.41	761	0	1.763	272.3	36.89	65.54	381.7	1.3743
7/2/04	1800	27.23	761	0	2.077	334.7	21.52	71.5	201.3	0.72474
7/2/04	1900	26.19	761	0	1.54	4.254	28.75	76.9	67.34	0.24242
7/2/04	2000	25.32	761	0	1.009	350	51.24	81.5	8.86	0.03189
7/2/04	2100	24.35	761	0	0.93	266.4	64.22	85.7	0.032	0.00012
7/2/04	2200	23.62	762	0	0.741	308.5	57.48	90.6	0.016	0.00006
7/2/04	2300	22.96	762	0	0.444	293.4	43.67	91	0.016	0.00006
7/2/04	2400	22.54	761	0	0.943	245.6	25.93	94.1	0.022	0.00008
7/3/04	100	22	761	0	0.879	9.56	50.55	93.6	0.015	0.00006
7/3/04	200	21.61	761	0	0.555	8.66	47.67	94.1	0.003	0.00001
7/3/04	300	21.23	761	0	0.595	288.1	59.57	95	0.002	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/3/04	400	20.9	761	0	0.576	306.9	54.06	95.5	0	0
7/3/04	500	20.78	760	0	0.497	290.7	67.21	96	0.005	0.00002
7/3/04	600	20.85	760	0	0.457	239.5	46.74	96.3	5.127	0.01846
7/3/04	700	21.17	761	0	0.834	244.9	54.96	95.2	45.55	0.16398
7/3/04	800	22.41	761	0	1.141	201.3	39.35	89	182.7	0.65774
7/3/04	900	23.54	761	0	1.311	209.9	35.54	84.9	169	0.60855
7/3/04	1000	24.62	762	0	1.292	210.2	35.81	79.1	319	1.1483
7/3/04	1100	26.08	761	0	1.742	166.5	40.91	76.2	516.3	1.8587
7/3/04	1200	26.46	761	1	1.695	135.9	52.18	76.7	439.2	1.5813
7/3/04	1300	27.2	761	0	2.491	162.5	34.51	67.14	613.6	2.2089
7/3/04	1400	28.17	761	0	2.436	166.5	28.66	67.88	559.3	2.0134
7/3/04	1500	24.14	760	4.2	2.584	210.8	69.56	93.3	83.5	0.3005
7/3/04	1600	23.73	760	0.1	1.145	12.54	67.62	82.1	466.5	1.6795
7/3/04	1700	27.24	759	0	0.984	54.83	60.41	83	311.5	1.1215
7/3/04	1800	26.25	759	0	0.817	0.831	22.1	80.8	135.7	0.48852
7/3/04	1900	26.79	759	0	0.649	27.04	71.5	78.3	91.1	0.32807
7/3/04	2000	25.88	759	0	0.931	233.8	62.36	88.5	22.72	0.08179
7/3/04	2100	24	759	0	0.74	267	19.76	91.7	0.047	0.00017
7/3/04	2200	23.36	759	0	0.672	283.7	16.86	91.9	0.014	0.00005
7/3/04	2300	22.94	760	0	1.326	240.2	12.95	93.8	0.025	0.00009
7/3/04	2400	22.37	760	0	1.131	238.7	11.11	93.1	0.022	0.00008
7/4/04	100	22.13	760	0	1.119	242.5	11.59	92.4	0.009	0.00003
7/4/04	200	21.86	760	0	1.122	236.2	14.09	91.6	0.006	0.00002
7/4/04	300	21.76	760	0	0.584	252.8	23.03	93.7	0.007	0.00003
7/4/04	400	21.52	759	0	0.566	255.7	27.68	92.6	0.012	0.00004
7/4/04	500	21.68	759	0	1.421	217.1	33.63	88.9	0.019	0.00007
7/4/04	600	21.93	759	0	1.287	231.8	24.82	92.4	8.5	0.0306
7/4/04	700	21.99	760	1.7	2.54	196.5	16.62	93.2	26.6	0.09575
7/4/04	800	22.55	760	0	2.265	197	16.31	89.4	160.1	0.57621
7/4/04	900	23.3	760	0	2.425	209.5	14.94	88.9	124.8	0.44942
7/4/04	1000	23.71	760	0	2.318	209.8	16.71	87	176.2	0.63424
7/4/04	1100	24.21	761	0	2.915	225.4	16.92	81.5	246.5	0.88755
7/4/04	1200	25.23	760	0	3.548	222.8	16.09	74.2	385.1	1.3864
7/4/04	1300	26.19	760	0	2.891	232.2	19.08	73.9	333.5	1.2005
7/4/04	1400	27.29	760	0	3.854	230	17.76	65.91	680.6	2.4501
7/4/04	1500	28.28	760	0	3.778	219.5	21.36	64.84	625.5	2.2517
7/4/04	1600	28.71	760	0	3.671	217.8	18.49	62.81	518.1	1.865
7/4/04	1700	28.93	759	0	3.574	231.8	18.91	62.74	388	1.3967
7/4/04	1800	29.05	759	0	3.54	242.4	16.29	67.65	278.6	1.003
7/4/04	1900	28.69	760	0	2.278	233.1	19.23	70.5	140.6	0.50621
7/4/04	2000	26.74	760	0	1.05	237.4	20.5	81.8	10.51	0.03783
7/4/04	2100	26.05	760	0	1.672	170.9	41.42	78.5	0.039	0.00014
7/4/04	2200	25.22	760	0	1.49	218.5	36.42	86.8	0.003	0.00001

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/4/04	2300	24.36	760	0	1.441	220.8	20.74	88.8	0.015	0.00005
7/4/04	2400	23.49	760	0	1.321	222.3	13.37	90.4	0.03	0.00011
7/5/04	100	22.49	760	0	1.289	238.8	10.55	92.3	0.025	0.00009
7/5/04	200	21.75	761	0	1.126	227.2	12.08	93.3	0.018	0.00006
7/5/04	300	21.72	761	0	0.571	237.9	22	89.6	0.012	0.00004
7/5/04	400	21.5	761	0	1.094	241.7	9.15	92.5	0.013	0.00005
7/5/04	500	21.26	762	0	0.684	248.7	24.08	89.3	0.02	0.00007
7/5/04	600	21.45	762	0	1.463	234.2	13.86	91.6	5.476	0.01972
7/5/04	700	22.2	762	0	1.116	225.8	16.04	87.6	71.4	0.25703
7/5/04	800	23.93	762	0	0.804	234.5	23.04	81.2	134.7	0.48487
7/5/04	900	25.56	763	0	2.607	230.1	16.89	74.5	276.4	0.99519
7/5/04	1000	26.1	763	0	2.602	239.2	27.12	76.5	207.4	0.74674
7/5/04	1100	27.03	763	0	2.232	273.6	34.01	74.1	424.8	1.5292
7/5/04	1200	28.17	763	0	3.131	253.9	21.86	71.9	653.9	2.354
7/5/04	1300	28.94	763	0	2.486	252.8	28.65	68.48	604.8	2.1773
7/5/04	1400	29.94	763	0	2.501	256	31.78	63.47	623.7	2.2454
7/5/04	1500	30.86	763	0	2.515	261	39.67	58.97	676.1	2.4338
7/5/04	1600	30.94	762	0	2.503	228.9	28.83	64.24	468.9	1.6881
7/5/04	1700	27.07	762	0.9	4.129	263.6	33.49	83.1	43.04	0.15493
7/5/04	1800	21.09	763	3.8	4.169	298.6	58.9	87.5	1.353	0.00487
7/5/04	1900	20.37	766	0.3	3.768	46.45	21.31	86	1.218	0.00438
7/5/04	2000	20	765	0.3	4.222	81.6	41.6	89.7	2.141	0.00771
7/5/04	2100	19.54	764	0	1.331	16.38	25.65	93.2	0.037	0.00013
7/5/04	2200	18.89	764	0	0.694	4.02	50.81	95.1	0.001	0
7/5/04	2300	18.56	764	0	0.498	230.3	19.26	95.6	0.007	0.00002
7/5/04	2400	18.12	764	0	1.153	225.8	15.65	96.5	0.038	0.00014
7/6/04	100	17.85	764	0	1.266	215.2	18.85	96.5	0.053	0.00019
7/6/04	200	17.38	764	0	1.375	244.5	21.07	97.3	0.077	0.00028
7/6/04	300	16.91	764	0	0.984	232.3	14.26	97.8	0.098	0.00035
7/6/04	400	16.75	764	0	1.054	229.8	10.92	97.9	0.141	0.00051
7/6/04	500	16.88	764	0	0.935	150.1	80.7	98.1	0.141	0.00051
7/6/04	600	17.33	764	0.1	1.318	130.3	62.34	98	9.99	0.03596
7/6/04	700	18.16	764	0	0.768	95.6	81.4	97.9	83.5	0.30067
7/6/04	800	19.14	764	0	1.367	335.7	28.41	93.8	215.4	0.77538
7/6/04	900	21.16	765	0	1.158	359.3	49.08	83.7	423.6	1.5248
7/6/04	1000	23.17	765	0	1.213	250.5	47.62	75.9	559.5	2.0142
7/6/04	1100	25.39	765	0	1.233	219.7	58.67	73.9	680.2	2.4489
7/6/04	1200	27.24	764	0	1.632	163	31.35	71.7	771	2.7738
7/6/04	1300	28.57	764	0	1.792	187.4	51.55	65.74	815	2.9337
7/6/04	1400	29.42	763	0	2.055	166	55.79	63.81	654.1	2.3549
7/6/04	1500	30.07	763	0	2.027	185.2	35.17	60.1	583.8	2.1018
7/6/04	1600	28.98	762	0	2.062	187.5	15.44	65.11	112.1	0.40354
7/6/04	1700	27.07	762	0.1	2.351	225.4	35.31	82	39.13	0.14087

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/6/04	1800	26.11	762	0.1	1.474	335.9	38.22	68.59	325.4	1.1714
7/6/04	1900	26.07	761	0	1.764	234.3	38.94	75.3	123.2	0.44361
7/6/04	2000	24.31	761	0	2.238	237.4	26.06	80.5	8.15	0.02932
7/6/04	2100	23.29	763	0.4	2.872	253.1	31.77	86.3	0.041	0.00015
7/6/04	2200	21.19	764	0.3	1.349	263.8	52.27	90.5	0.006	0.00002
7/6/04	2300	20.7	763	0	2.397	171.1	19.27	91.4	0.001	0
7/6/04	2400	20.66	762	0	1.563	210.6	30.41	90.4	0	0
7/7/04	100	20.36	762	0	0.62	16.13	56.04	94.8	0	0
7/7/04	200	20.21	761	0	0.937	273.7	58.09	93.9	0	0
7/7/04	300	20.16	761	0	1.586	229.9	31.11	94.1	0	0
7/7/04	400	19.9	761	0	1.426	214.5	33.85	94.4	0	0
7/7/04	500	20.26	760	0	2.06	204.9	16.15	93.5	0	0
7/7/04	600	20.12	761	0	2.35	233.8	19.39	93	6.09	0.02192
7/7/04	700	20.35	761	0	2.163	206.5	19.9	89.4	99.9	0.35973
7/7/04	800	21.4	761	0	2.533	226.1	19.98	84.9	249.2	0.89713
7/7/04	900	22.39	762	0	3.15	228.6	23.1	80.5	292	1.0514
7/7/04	1000	23.58	762	0	2.681	222.4	23.72	76.8	435.2	1.5666
7/7/04	1100	25.02	762	0	2.24	206.6	30.7	71.2	529.9	1.9076
7/7/04	1200	26.14	761	0	3.346	227.8	18.95	65.58	721	2.5958
7/7/04	1300	26.87	761	0	2.811	213.6	21.71	67.78	622.2	2.2397
7/7/04	1400	27.49	761	0	2.832	195.4	26.05	65.71	620.8	2.2347
7/7/04	1500	28.42	761	0	2.921	222.7	24.15	62.87	616.3	2.2186
7/7/04	1600	28.45	760	0	2.259	210.6	19.36	66.18	328.4	1.1821
7/7/04	1700	25.94	759	0.3	3.011	209.2	35.57	82.7	128.7	0.46343
7/7/04	1800	22.68	759	0	1.765	223.6	32.33	80.9	124.2	0.44717
7/7/04	1900	23.61	759	0	1.383	231.7	32.09	84.1	113.1	0.40711
7/7/04	2000	22.88	759	0	1.224	232.6	21.14	88.8	17.46	0.06284
7/7/04	2100	22.35	759	0	1.132	234	18.29	91.8	0.144	0.00052
7/7/04	2200	22.04	760	0	0.911	248.2	25.68	91.1	0.01	0.00004
7/7/04	2300	21.71	760	0	0.745	245.6	34.02	93.2	0.012	0.00004
7/7/04	2400	21.16	760	0	0.907	251.1	20.72	94.2	0.003	0.00001
7/8/04	100	21.1	760	0	0.637	291	48.96	93.7	0.001	0
7/8/04	200	20.62	760	0	1.068	234.5	13.64	95	0.001	0
7/8/04	300	20.6	760	0	0.648	215	38.56	92.9	0	0
7/8/04	400	20.6	760	0	1.009	238.4	18.28	93.2	0	0
7/8/04	500	20.44	760	0	1.396	219.7	13.12	93.9	0.001	0
7/8/04	600	20.09	761	0	1.099	219.4	15.99	93.5	9.39	0.03379
7/8/04	700	20.31	761	0	1.459	217.9	18.93	91.5	66.17	0.23821
7/8/04	800	21.07	762	0	1.927	217.9	13.77	88.5	137.9	0.49659
7/8/04	900	22.27	762	0	2.217	224.4	16.35	82.1	304.4	1.0959
7/8/04	1000	23.95	762	0	2.225	230.9	39.25	77.9	457.1	1.6454
7/8/04	1100	25.41	762	0	1.973	260.6	36.2	68.95	693.9	2.498
7/8/04	1200	26.84	762	0	2.295	273.3	37.47	63.27	826	2.9737

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/8/04	1300	27.78	762	0	2.537	268.3	29.49	57.23	829	2.9832
7/8/04	1400	28.44	762	0	1.965	278.7	38.64	50.99	791	2.8459
7/8/04	1500	29.06	762	0	1.659	261.4	79	57.77	708	2.5499
7/8/04	1600	29.28	761	0	1.929	250.8	43.42	55.9	629.6	2.2666
7/8/04	1700	29.68	761	0	1.863	293.9	33.1	48.49	459.2	1.6532
7/8/04	1800	29.55	761	0	1.538	250.1	35.61	55.06	300.2	1.0809
7/8/04	1900	28.7	761	0	1.669	200.9	28.77	63.41	142	0.51109
7/8/04	2000	26.41	761	0	1.045	262.7	26.13	74.7	19.12	0.06883
7/8/04	2100	24.55	761	0	0.747	283.5	23.24	78.5	0.031	0.00011
7/8/04	2200	23.5	762	0	0.774	352.4	30.52	83.4	0.027	0.0001
7/8/04	2300	22.59	762	0	1.067	257.2	41.73	89.7	0.016	0.00006
7/8/04	2400	22.23	762	0	0.863	240.8	29.55	90	0.017	0.00006
7/9/04	100	21.68	762	0	0.482	289.2	32.73	91.7	0.004	0.00002
7/9/04	200	21.07	762	0	1.15	246.3	10.83	94	0	0
7/9/04	300	20.68	763	0	0.829	244.6	15.19	93.3	0	0
7/9/04	400	20.64	762	0	0.913	258.8	16.64	92.7	0	0
7/9/04	500	20.27	763	0	0.426	285.7	39.64	93.7	0.002	0.00001
7/9/04	600	20.02	763	0	0.605	341.2	66.97	93.4	15.52	0.05586
7/9/04	700	21.32	764	0	0.639	333.9	27.3	85.7	122.8	0.44207
7/9/04	800	23	764	0	1.259	238.7	17.07	79.5	272.8	0.98199
7/9/04	900	24.96	764	0	1.071	211.6	43.32	73.1	446.7	1.6082
7/9/04	1000	26.6	764	0	1.337	234	43.24	67.48	575.8	2.073
7/9/04	1100	28.04	764	0	1.647	199.1	50.99	65.41	705	2.538
7/9/04	1200	28.82	765	0	1.82	236.8	58.02	63.41	663.3	2.3879
7/9/04	1300	29.51	764	0	2.101	235.2	37.88	54	759	2.7334
7/9/04	1400	30.13	764	0	2.688	234.5	31.5	55.43	763	2.7465
7/9/04	1500	30.51	764	0	3	225	21.56	52.59	698.9	2.5159
7/9/04	1600	30.97	763	0	2.19	225.8	39.96	49.52	588.9	2.1202
7/9/04	1700	31.02	763	0	1.88	257.7	37.55	54.13	390.2	1.4046
7/9/04	1800	29.06	763	0	1.018	246.1	30.75	69.48	74.3	0.26733
7/9/04	1900	28.62	763	0	1.07	255.5	46.33	68.18	102.2	0.36785
7/9/04	2000	28.05	763	0	0.687	320.8	40.96	75.9	46.66	0.16798
7/9/04	2100	26.29	764	0	0.724	279.5	25.29	81.1	0.042	0.00015
7/9/04	2200	25.43	764	0	0.586	290.8	33.1	86.4	0.013	0.00005
7/9/04	2300	24.48	764	0	0.568	342.6	35.26	90.7	0.033	0.00012
7/9/04	2400	23.78	765	0	0.98	264	51.28	94.3	0.044	0.00016
7/10/04	100	23.15	764	0	1.003	247.9	25.04	94.3	0.044	0.00016
7/10/04	200	22.56	764	0	1.285	243.1	17.25	95	0.026	0.00009
7/10/04	300	22.11	764	0	0.67	254.3	25.42	94.1	0.009	0.00003
7/10/04	400	21.71	764	0	0.868	252.4	28.96	95.1	0.004	0.00001
7/10/04	500	21.49	764	0	0.631	325.8	54.45	94.5	0.005	0.00002
7/10/04	600	21.34	765	0	0.72	283.3	59.13	95.4	10.74	0.03865
7/10/04	700	22.4	765	0	0.441	255.8	50.83	87	112.4	0.40477

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/10/04	800	24.28	765	0	1.271	242.6	21.73	83.6	272.7	0.98171
7/10/04	900	26.04	766	0	1.668	212.9	27.86	75.1	413.7	1.4894
7/10/04	1000	27.6	766	0	1.865	238.4	34.69	65.68	552.4	1.9887
7/10/04	1100	28.88	766	0	2.228	251.4	34.69	64.84	704	2.5358
7/10/04	1200	29.8	766	0	2.216	248.9	35.89	55.73	801	2.8828
7/10/04	1300	30.58	765	0	2.057	223.9	47.41	55.16	753	2.7093
7/10/04	1400	31.12	765	0	1.87	284.8	63.82	51.49	741	2.666
7/10/04	1500	31.47	765	0	2.348	254.1	40.16	52.63	702	2.5254
7/10/04	1600	31.5	764	0	2.645	276.7	27.35	46.85	573.5	2.0645
7/10/04	1700	30.74	764	0	2.844	262.5	23.5	66.01	258	0.92863
7/10/04	1800	27.61	764	0	2.659	267.5	20.67	69.28	50.79	0.18285
7/10/04	1900	26.85	764	0	1.818	262.7	27.07	72.4	101.8	0.36633
7/10/04	2000	25.97	764	0	1.523	252.2	26.92	72.1	20.6	0.07418
7/10/04	2100	25.28	765	0	1.199	231.8	18.63	79.1	0.007	0.00003
7/10/04	2200	25.03	765	0	1.087	228.4	16.39	81.9	0.015	0.00005
7/10/04	2300	24.32	765	0	1.217	228.4	12.54	87.1	0.044	0.00016
7/10/04	2400	23.73	765	0	1.117	232.1	25.59	90.5	0.08	0.00029
7/11/04	100	23.1	765	0	1.204	226.5	13	93.2	0.079	0.00029
7/11/04	200	22.54	765	0	0.964	237.2	22.08	94.2	0.054	0.0002
7/11/04	300	22.45	764	0	0.888	250	19.09	94.7	0.052	0.00019
7/11/04	400	22	764	0	1.04	243.4	28.69	95.9	0.037	0.00013
7/11/04	500	21.73	764	0	1.038	244.2	16.17	96.4	0.041	0.00015
7/11/04	600	21.34	765	0	0.735	243.6	21.45	97	12.2	0.04394
7/11/04	700	21.82	765	0	0.789	236.6	16.58	95.5	103.4	0.3722
7/11/04	800	24.05	765	0	0.797	210.4	67.64	82.4	286.3	1.0307
7/11/04	900	25.79	765	0	1.151	171.7	46.98	76	453.1	1.6311
7/11/04	1000	27.06	765	0	1.403	213.3	46.47	71.3	591.6	2.1299
7/11/04	1100	28.25	765	0	1.729	240.5	71.2	65.88	578.1	2.0811
7/11/04	1200	29.33	765	0	1.667	254.1	59.61	61.1	829	2.9828
7/11/04	1300	30.05	765	0	2.127	223.8	42.16	56	782	2.8145
7/11/04	1400	29.82	764	0	2.691	260.8	43.62	70.9	449.8	1.6194
7/11/04	1500	28.93	764	0	1.853	347.2	19.91	65.54	360.2	1.2969
7/11/04	1600	30.92	763	0	2.127	239.9	49.1	53.56	625.2	2.2508
7/11/04	1700	31.32	763	0	2.935	229.7	23.06	54.93	473.9	1.706
7/11/04	1800	30.49	762	0	2.358	227.4	20.53	56.83	176.8	0.63639
7/11/04	1900	29.5	762	0	1.506	227.6	36.19	59.04	104.8	0.37736
7/11/04	2000	28.09	762	0	1.142	268.8	30.46	72.9	21.58	0.07768
7/11/04	2100	26.23	762	0	0.892	296.2	36.69	78.6	0.026	0.00009
7/11/04	2200	23.46	763	2.5	3.312	223.8	37.72	91.8	0.018	0.00007
7/11/04	2300	22.51	764	0	1.038	19.1	66.01	94.2	0.047	0.00017
7/11/04	2400	22.12	764	0	0.927	263.1	39.29	95.8	0.036	0.00013
7/12/04	100	21.78	763	0	1.386	232.7	14.56	95.3	0.027	0.0001
7/12/04	200	21.63	763	0	1.545	225.5	12.45	94.9	0.023	0.00008

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/12/04	300	21.59	763	0	1.178	224.9	18.2	94.9	0.007	0.00002
7/12/04	400	21.47	763	0	0.561	218	34.26	95.5	0.012	0.00004
7/12/04	500	21.25	763	0	0.927	232.5	24.75	96	0.011	0.00004
7/12/04	600	21.22	763	0	0.684	252.8	39.02	95.7	11.07	0.03986
7/12/04	700	21.92	763	0	1.089	226.1	12.33	92.6	114.9	0.41353
7/12/04	800	23.03	763	0	1.578	218.7	19.37	87.6	221.9	0.79876
7/12/04	900	24.86	763	0	1.944	216.4	28.25	81.3	424.3	1.5273
7/12/04	1000	26.41	764	0	1.878	197	29.04	73.2	576.7	2.076
7/12/04	1100	27.78	763	0	1.93	243	44.55	73.8	650.5	2.3418
7/12/04	1200	29.06	763	0	2.196	235.1	44.2	71	659.2	2.373
7/12/04	1300	29.08	763	0	1.631	305.3	46.06	62.84	676.7	2.4362
7/12/04	1400	30.39	762	0	1.906	195	59.52	59.94	824	2.9678
7/12/04	1500	30.83	762	0	2.382	201.3	34.33	60.64	678.7	2.4435
7/12/04	1600	28.62	761	1	3.151	338.5	100	84.1	373.4	1.3441
7/12/04	1700	24.51	761	5	2.62	64.01	96.1	92.8	80.1	0.28851
7/12/04	1800	22.74	761	0	1.187	210.9	62.63	91.3	69.26	0.24933
7/12/04	1900	23.46	761	0	1.836	162.2	39.33	89.3	105.8	0.38106
7/12/04	2000	23.14	761	0	1.118	207.1	30.53	90.2	22.18	0.07983
7/12/04	2100	23.04	761	0	1.105	199.8	30.05	92.7	0.14	0.0005
7/12/04	2200	22.99	761	0	1.315	220.3	14.6	93	0.058	0.00021
7/12/04	2300	22.78	762	0	1.448	219.1	12.82	93.9	0.046	0.00016
7/12/04	2400	22.53	762	0	0.996	201.9	31.87	94.3	0.026	0.00009
7/13/04	100	22.22	761	0	1.322	203.6	36.62	94.3	0.019	0.00007
7/13/04	200	21.81	761	0	1.136	230.3	13.22	95.5	0.013	0.00005
7/13/04	300	21.4	761	0	0.905	242.7	18.45	96.1	0.006	0.00002
7/13/04	400	21.17	761	0	1.19	230.6	20.18	95.9	0.008	0.00003
7/13/04	500	21.03	761	0	1.632	234	10.28	95.7	0.006	0.00002
7/13/04	600	21.12	761	0	1.262	233.7	11.67	95.9	8.22	0.02959
7/13/04	700	21.6	761	0	1.853	231.4	14.05	97	74.7	0.26884
7/13/04	800	22.67	761	0	2.236	232.4	19.78	90.6	233.3	0.84003
7/13/04	900	24.76	761	0	1.843	203.9	22.66	83.4	440.1	1.5844
7/13/04	1000	26.68	761	0	1.916	246.8	32.72	78.7	541.1	1.9478
7/13/04	1100	27.7	761	0	2.064	242.7	34.2	72.2	560.3	2.0172
7/13/04	1200	28.98	761	0	2.065	213.2	38.32	67.41	691.8	2.4904
7/13/04	1300	30.08	761	0	1.989	229.4	48.92	61.71	718	2.5847
7/13/04	1400	30.57	760	0	2.218	232.6	37.52	62.54	596.1	2.1461
7/13/04	1500	31.23	760	0	2.931	233.9	30.93	63.34	737	2.6529
7/13/04	1600	31.67	759	0	2.811	245.9	28.8	57.27	600.1	2.1604
7/13/04	1700	31.71	759	0	2.624	261.9	27.22	58.03	435.3	1.567
7/13/04	1800	31.8	759	0	2.127	282	30.8	55.5	302.7	1.0899
7/13/04	1900	31.14	758	0	1.187	273.8	41.16	63.67	134.5	0.48417
7/13/04	2000	28.31	758	0	1.295	253.5	19.61	79	16.78	0.06041
7/13/04	2100	26.33	758	0	1.189	243.1	16.02	85.3	0.028	0.0001



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/13/04	2200	25.51	759	0	1.406	251.9	17.3	84.3	0.028	0.0001
7/13/04	2300	26.07	760	0	4.032	294.7	54.02	56.69	0.047	0.00017
7/13/04	2400	25.31	761	0	3.528	13.53	47.74	51.31	0.054	0.0002
7/14/04	100	24.44	759	0	2.604	170.2	34.73	60.62	0.043	0.00015
7/14/04	200	23.39	758	0	2.058	205	21.12	67.27	0.051	0.00018
7/14/04	300	21.67	758	0	1.224	240.2	31.48	75	0.009	0.00003
7/14/04	400	20.44	758	0	1.185	226.3	28.33	80.8	0.001	0
7/14/04	500	20.52	759	0	1.279	85	90.8	74.3	0	0
7/14/04	600	20.4	759	0	2.484	229.6	27.78	80.1	8.73	0.03143
7/14/04	700	20.78	758	0	2.119	229.3	14.86	77.2	140	0.50395
7/14/04	800	21.55	758	0	2.011	238.6	36.28	78.4	68.28	0.24579
7/14/04	900	20.2	760	2.7	2.602	216.3	56.2	93.1	14.03	0.05049
7/14/04	1000	21.05	758	0.1	2.817	240.3	25.07	84.9	389.8	1.4034
7/14/04	1100	24.02	758	0	3.517	216.3	19.21	71.8	717	2.5798
7/14/04	1200	26.54	758	0	3.518	221.1	18.7	66.51	775	2.7906
7/14/04	1300	28.77	758	0	3.243	219.1	18.65	67.25	741	2.6682
7/14/04	1400	30.14	757	0	3.938	241.9	28.66	63.77	672.7	2.4218
7/14/04	1500	30.54	757	0	3.708	280	29.78	65.98	666.5	2.3993
7/14/04	1600	30.53	756	0	3.866	271.7	24.11	54.23	503.8	1.8136
7/14/04	1700	30.62	756	0	3.205	271.9	27.4	55.3	457.1	1.6455
7/14/04	1800	29.74	756	0	2.316	306.9	37.48	57.37	293.3	1.0559
7/14/04	1900	28.5	756	0	1.736	288.1	32.19	56.8	148.6	0.53486
7/14/04	2000	26.78	756	0	1.984	262.6	27.52	61.71	19.56	0.07043
7/14/04	2100	25.46	757	0	2.054	252.4	18.94	66.13	0.065	0.00023
7/14/04	2200	23.61	758	0	1.131	287.1	45.87	76	0.046	0.00016
7/14/04	2300	22.41	758	0	0.811	282.8	43.07	82.8	0.061	0.00022
7/14/04	2400	21.16	758	0	0.718	294	29.51	86.6	0.014	0.00005
7/15/04	100	20.24	758	0	0.753	344.2	50.29	91.2	0.001	0
7/15/04	200	19.51	758	0	0.475	282.6	30.13	92.4	0	0
7/15/04	300	18.99	758	0	0.652	251.5	25.77	93.5	0.004	0.00001
7/15/04	400	18.56	757	0	0.523	348	50.91	93.6	0.019	0.00007
7/15/04	500	18.16	757	0	0.81	242.6	28.01	94	0.04	0.00014
7/15/04	600	17.83	758	0	1.185	214.6	11.6	93.7	11.2	0.0403
7/15/04	700	19.02	758	0	0.524	204.8	13.87	86.4	123.5	0.44474
7/15/04	800	21.16	759	0	0.789	251.9	66.72	75.3	294.9	1.0617
7/15/04	900	23.37	759	0	1.349	352.1	41.25	61.89	464.7	1.673
7/15/04	1000	24.56	760	0	2.989	7.13	25.89	48.46	620.2	2.2326
7/15/04	1100	25.16	760	0	3.078	30.58	23.37	47.06	750	2.7005
7/15/04	1200	25.82	760	0	2.047	6.187	50.38	47.46	810	2.9158
7/15/04	1300	25.93	760	0	1.833	325.1	48.95	51.53	559.8	2.0151
7/15/04	1400	26.39	759	0	2.044	317.5	45.52	47.36	554.7	1.997
7/15/04	1500	27.01	759	0	1.982	299.8	53.58	45.72	738	2.6573
7/15/04	1600	27.28	759	0	2.312	301	32.45	49.29	611.9	2.2028

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/15/04	1700	27.51	759	0	2.191	311.6	27.84	42.15	452.8	1.63
7/15/04	1800	27.33	758	0	1.859	327.4	31.12	47.36	298.5	1.0746
7/15/04	1900	26.43	758	0	1.24	334.9	25.13	58.84	134.8	0.48543
7/15/04	2000	23.8	759	0	0.755	340.1	28.54	68.54	13.84	0.04983
7/15/04	2100	21.89	758	0	0.694	333.6	28.55	74.8	0.083	0.0003
7/15/04	2200	20.6	759	0	0.469	310.1	29.07	80.5	0.008	0.00003
7/15/04	2300	19.42	759	0	0.672	272.9	22.13	86.1	0	0
7/15/04	2400	18.64	759	0	0.504	300.4	40.49	90.9	0.001	0
7/16/04	100	18.12	760	0	0.62	324.9	42.48	90.3	0.007	0.00003
7/16/04	200	17.67	759	0	0.726	320.9	58.13	94.7	0.022	0.00008
7/16/04	300	17.23	759	0	0.575	318.4	51.48	93.7	0.035	0.00013
7/16/04	400	16.88	759	0	0.823	247.9	18.03	95.1	0.041	0.00015
7/16/04	500	16.6	759	0	0.693	250.4	16.77	95	0.055	0.0002
7/16/04	600	16.53	759	0	0.996	242.1	12.96	94.4	9.54	0.03436
7/16/04	700	17.68	759	0	1.108	246.2	24.73	90.3	115.1	0.41449
7/16/04	800	19.69	760	0	1.546	235.1	15.89	80.3	278.3	1.0019
7/16/04	900	22.05	760	0	1.676	204.2	34	72	424	1.5262
7/16/04	1000	23.93	760	0	1.395	228.7	29.88	67.93	573.3	2.0639
7/16/04	1100	25.39	760	0	1.467	199.7	46.1	56.13	648.2	2.3334
7/16/04	1200	26.58	760	0	1.645	220.1	51.96	60.14	632.9	2.2786
7/16/04	1300	26.79	760	0	2.239	233.9	36.76	54.4	565.1	2.0344
7/16/04	1400	27.58	760	0	2.621	269.2	37.7	47.76	784	2.8241
7/16/04	1500	28.14	759	0	2.026	290	41.9	47.82	705	2.5367
7/16/04	1600	28.34	759	0	2.202	243.4	43.39	45.25	568.1	2.0452
7/16/04	1700	27.96	758	0	2.762	239.6	26.41	53.66	387.4	1.3947
7/16/04	1800	27.56	758	0	2.378	235.5	23.59	55.53	251.2	0.90436
7/16/04	1900	27.02	758	0	1.874	221	15.23	63.11	119.4	0.43002
7/16/04	2000	25.37	758	0	1.064	221.9	19.2	71.3	14.01	0.05044
7/16/04	2100	23.67	758	0	0.925	254.7	42.12	77.3	0.086	0.00031
7/16/04	2200	22.24	759	0	0.827	262	28.53	84.1	0.048	0.00017
7/16/04	2300	21.26	759	0	0.48	290.7	34.34	87	0.004	0.00001
7/16/04	2400	20.34	758	0	1.115	236.8	11.17	92	0.002	0.00001
7/17/04	100	20.03	758	0	0.827	301.9	63.34	91.5	0	0
7/17/04	200	19.66	758	0	0.61	7.7	30.34	92.8	0	0
7/17/04	300	19.37	758	0	0.459	288.4	48.53	93.3	0	0
7/17/04	400	19.43	757	0	0.493	359.4	57.97	92.2	0.001	0
7/17/04	500	19.51	758	0	0.619	321.4	60.14	92.7	0	0
7/17/04	600	19.75	758	0	0.745	5.499	33.34	92.5	3.109	0.01119
7/17/04	700	20.17	758	0	0.392	349.4	31.43	90.6	32.39	0.11659
7/17/04	800	21.18	758	0	0.737	236.2	60.12	88.9	55.16	0.19859
7/17/04	900	21.54	758	0	0.661	163.1	64.75	81.1	102.3	0.36835
7/17/04	1000	22.21	758	0.1	0.698	167	84.3	82.4	165.3	0.59496
7/17/04	1100	23.72	758	0	1.541	151.8	23.99	75.7	424.6	1.5287

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/17/04	1200	25	758	0	1.836	147.4	34.67	70.1	535.4	1.9276
7/17/04	1300	26.14	757	0	2.133	206	31.39	67.58	580.7	2.0905
7/17/04	1400	26.8	757	0	3.252	202.8	27.53	68.91	571.6	2.0578
7/17/04	1500	25.44	756	0	2.222	198.4	20.97	75.8	113.5	0.40849
7/17/04	1600	22.49	756	0.7	3.226	352.1	38.02	86.7	30.43	0.10954
7/17/04	1700	20	756	3.5	1.364	310.5	78.5	94.4	72	0.25904
7/17/04	1800	20.94	756	0	2.169	39.19	21.16	91.1	193.5	0.69676
7/17/04	1900	21.51	756	0	1.935	106.3	41.14	90.9	102.7	0.36963
7/17/04	2000	21.09	757	0	1.087	80.4	51.21	92.9	7.27	0.02619
7/17/04	2100	20.45	757	0	1.007	334.7	64.87	95.2	0.049	0.00018
7/17/04	2200	20.37	757	0	0.503	3.823	40.17	95.6	0.02	0.00007
7/17/04	2300	20.29	757	0	0.7	336.5	37.09	95.4	0.009	0.00003
7/17/04	2400	19.66	757	0	0.682	9.27	37.2	96	0.004	0.00002
7/18/04	100	19.19	757	0	0.381	343.9	43.89	96.6	0.001	0
7/18/04	200	18.89	757	0	0.971	345.8	49.73	97.1	0	0
7/18/04	300	18.89	757	0	1.319	18.7	16.99	97	0	0
7/18/04	400	18.88	757	0	1.788	36.87	14.7	97.5	0.002	0.00001
7/18/04	500	18.59	757	0	0.913	11.45	24.77	97.6	0.001	0
7/18/04	600	18.67	757	0	0.776	52.75	34.46	97.8	2.847	0.01025
7/18/04	700	18.97	757	0	0.946	1.978	15.95	97.8	20.35	0.07327
7/18/04	800	19.38	758	0	1.22	343.7	18.79	97.6	93.3	0.33577
7/18/04	900	20.15	758	0	1.164	289.3	32.48	92.5	149.4	0.53776
7/18/04	1000	20.93	758	0	1.343	328.3	23.17	88	184.3	0.66356
7/18/04	1100	21.95	758	0	1.116	11.46	40.85	83	297.2	1.0699
7/18/04	1200	23.54	758	0	1.357	15.31	46.16	77.1	508	1.8287
7/18/04	1300	24.57	758	0	1.651	337.3	38.68	68.11	690.6	2.486
7/18/04	1400	25.79	758	0	1.8	351.5	59.33	64.21	760	2.7363
7/18/04	1500	26.98	757	0	1.78	323.2	47.23	60.17	682.7	2.4578
7/18/04	1600	27	757	0	1.529	322	43.46	61.2	439.8	1.5832
7/18/04	1700	27.09	757	0	1.752	349.7	46.73	53.16	345.5	1.2438
7/18/04	1800	26.96	757	0	1.512	332	30.88	55.8	226.3	0.81456
7/18/04	1900	26.1	757	0	1.469	298.3	36.24	60.01	132.4	0.47662
7/18/04	2000	23.82	757	0	1.159	276	27.71	74.2	17.2	0.06192
7/18/04	2100	21.62	757	0	0.962	347.6	34.68	84.4	0.045	0.00016
7/18/04	2200	20.02	758	0	0.769	337.9	40.26	85.7	0.002	0.00001
7/18/04	2300	19.03	758	0	0.921	290.1	52.04	88.1	0	0
7/18/04	2400	18.26	758	0	0.806	262.4	31.36	92	0.001	0
7/19/04	100	17.69	758	0	0.942	255.5	14.49	94.3	0.005	0.00002
7/19/04	200	17.23	758	0	0.758	249.8	25.82	94.1	0.017	0.00006
7/19/04	300	16.82	758	0	0.653	276.2	37.92	95.3	0.025	0.00009
7/19/04	400	16.53	758	0	0.495	327.9	26.71	96.2	0.035	0.00013
7/19/04	500	16.43	758	0	0.444	329.8	39.77	97	0.042	0.00015
7/19/04	600	16.5	758	0	0.744	16.23	34.41	97.4	7.04	0.02536

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/19/04	700	17.18	759	0	0.557	296.5	52.67	94	91.9	0.33068
7/19/04	800	19.04	759	0	0.822	213.3	17.31	85.9	245.4	0.88358
7/19/04	900	21.37	759	0	1.043	25.69	69.26	76.3	410.9	1.4793
7/19/04	1000	22.97	759	0	2.1	29.61	29.1	71	550.1	1.9802
7/19/04	1100	24.42	759	0	2.425	21.19	28.49	65.18	704	2.536
7/19/04	1200	25.43	759	0	2.036	4.746	44.36	59	678.4	2.4423
7/19/04	1300	26.17	759	0	1.924	15.83	56.76	60.1	700	2.5202
7/19/04	1400	26.81	759	0	2.183	12.01	30.17	55.83	614.5	2.2123
7/19/04	1500	27.17	759	0	2.497	7.05	34.97	54.26	640.2	2.3048
7/19/04	1600	27.29	759	0	2.297	18.06	40.93	50.99	537.2	1.934
7/19/04	1700	27.31	759	0	2.189	17.81	24.19	51.43	415.8	1.4969
7/19/04	1800	27.14	758	0	1.379	340.6	22.2	51.23	227.4	0.81852
7/19/04	1900	26.12	758	0	1.322	302.3	17.82	69.22	106.8	0.38462
7/19/04	2000	23.99	759	0	0.708	329.5	30.48	80	16.71	0.06017
7/19/04	2100	22.46	759	0	0.76	347.3	35.28	82.7	0.084	0.0003
7/19/04	2200	21.2	759	0	0.746	354.4	36.13	87.4	0.012	0.00004
7/19/04	2300	20.3	760	0	0.889	12.39	21.71	88.7	0.002	0.00001
7/19/04	2400	19.43	760	0	0.706	19.64	21.55	91.1	0.001	0
7/20/04	100	18.92	760	0	0.776	16.73	27.81	92.4	0.003	0.00001
7/20/04	200	18.4	760	0	0.657	13.13	26.62	94	0.001	0
7/20/04	300	18.1	760	0	1.012	20.89	11.09	93.5	0.007	0.00002
7/20/04	400	17.78	760	0	0.835	5.065	16.28	94.3	0.012	0.00004
7/20/04	500	17.53	760	0	0.65	2.921	21.1	94.6	0.028	0.0001
7/20/04	600	17.34	760	0	0.719	350.6	23.54	94.2	6.774	0.02439
7/20/04	700	18.2	761	0	0.452	314.4	32.16	90.3	84.9	0.30564
7/20/04	800	20.17	761	0	0.706	320	67.33	81.3	236.1	0.85014
7/20/04	900	22.53	762	0	1.443	352.4	23.51	76	424.6	1.5286
7/20/04	1000	24.39	762	0	1.752	350.8	23.72	67.09	578.1	2.081
7/20/04	1100	26.11	762	0	1.34	1.392	57.96	58.9	691.9	2.4908
7/20/04	1200	27.15	762	0	1.82	42.79	47.45	50.19	770	2.7731
7/20/04	1300	27.88	762	0	1.95	22.52	51.7	49.02	729	2.6229
7/20/04	1400	28.48	761	0	1.346	75.2	72.7	42.92	572.4	2.0605
7/20/04	1500	28.53	761	0	1.405	342.5	84.1	44.42	522.7	1.8818
7/20/04	1600	29.55	761	0	1.3	182	76.2	47.26	648.1	2.3331
7/20/04	1700	29.54	761	0	1.533	227.9	82.9	40.68	476.8	1.7166
7/20/04	1800	29.09	761	0	1.552	323.2	17.05	45.22	275.7	0.99263
7/20/04	1900	27.7	761	0	1.022	320	19.75	62.17	116.8	0.42033
7/20/04	2000	24.97	761	0	0.728	331.2	42.56	71.3	13.5	0.04862
7/20/04	2100	23.15	761	0	1.098	7.8	25.57	79.6	0.038	0.00014
7/20/04	2200	21.75	761	0	0.803	337.3	39.12	82	0.02	0.00007
7/20/04	2300	20.76	762	0	0.513	320	40.57	85.1	0.004	0.00001
7/20/04	2400	20.07	762	0	0.91	11.7	23.32	87.1	0	0
7/21/04	100	19.43	762	0	0.41	339.2	31.49	90	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/21/04	200	18.77	762	0	0.341	290.1	46.32	93	0.001	0
7/21/04	300	18.28	762	0	0.626	297	53.29	93.3	0.003	0.00001
7/21/04	400	18.15	762	0	0.904	21.11	17.99	92.9	0.002	0.00001
7/21/04	500	17.9	762	0	0.695	1.77	19.3	96.1	0.002	0.00001
7/21/04	600	17.63	762	0	0.639	353.9	26.08	95.8	7.27	0.02618
7/21/04	700	18.32	763	0	0.854	358.5	21.81	91	96.9	0.34887
7/21/04	800	20.65	763	0	0.806	348.1	30.81	82.1	255.7	0.92047
7/21/04	900	23	763	0	0.862	341.7	29.15	71.9	421.7	1.518
7/21/04	1000	25.19	763	0	1.051	337.7	58.7	67.32	566.2	2.0383
7/21/04	1100	26.78	763	0	1.307	39.96	78.8	63.91	682.9	2.4584
7/21/04	1200	27.98	763	0	1.381	249.4	55.11	55.6	741	2.6685
7/21/04	1300	28.74	763	0	1.601	240.5	83.1	58.67	735	2.6456
7/21/04	1400	29.33	762	0	1.764	276.6	60.11	51.69	706	2.5431
7/21/04	1500	29.71	762	0	1.975	214.5	36.84	43.18	676.9	2.4368
7/21/04	1600	30.24	762	0	1.938	223.4	48.54	46.35	581.9	2.0948
7/21/04	1700	30.16	761	0	1.697	261.2	38.71	47.69	429.1	1.5446
7/21/04	1800	29.61	761	0	1.312	275.3	37.13	55.97	212.5	0.76513
7/21/04	1900	28.37	761	0	0.787	337	41.94	62.07	89.9	0.32364
7/21/04	2000	26.35	761	0	0.475	313.7	37.4	72	11.99	0.04316
7/21/04	2100	24.54	761	0	0.793	275.4	34.78	75.8	0.008	0.00003
7/21/04	2200	23.52	761	0	1.091	260.3	22.36	83.7	0.054	0.0002
7/21/04	2300	22.64	761	0	1.041	241.4	12.18	87.3	0.066	0.00024
7/21/04	2400	22.27	762	0	1.143	243	37.95	86.6	0.046	0.00016
7/22/04	100	21.72	762	0	0.989	252.7	28.13	89.8	0.038	0.00014
7/22/04	200	21.23	762	0	0.616	271.6	21.38	89.7	0.012	0.00004
7/22/04	300	20.84	761	0	1.341	242.3	9.44	92.4	0.01	0.00004
7/22/04	400	20.76	761	0	1.274	247.2	8.23	92.5	0.018	0.00006
7/22/04	500	20.58	761	0	1.34	245.3	15.57	91.5	0.009	0.00003
7/22/04	600	20.36	761	0	0.849	238	18.57	92.8	7.35	0.02647
7/22/04	700	20.64	762	0	1.045	232.7	10.44	87.2	66.95	0.24101
7/22/04	800	22.37	762	0	1.58	222.9	17.92	80.2	228.8	0.82382
7/22/04	900	24.5	762	0	0.992	252	42.43	74.3	338.7	1.2195
7/22/04	1000	26.34	762	0	1.216	238.6	54.81	70.2	445.1	1.6023
7/22/04	1100	27.21	762	0	1.589	216.5	40.07	66.64	497.4	1.7905
7/22/04	1200	28.59	761	0	1.881	211.7	54.95	58.6	723	2.6014
7/22/04	1300	28.97	761	0	1.66	229.8	39.71	59.5	416.6	1.4999
7/22/04	1400	29.21	761	0	2.333	228.6	29.07	60.8	452.6	1.6294
7/22/04	1500	29.05	761	0	2.427	256	20.82	63.51	315.9	1.1371
7/22/04	1600	28.96	761	0	2.152	234.1	30.6	64.78	208.6	0.75089
7/22/04	1700	28.95	760	0	1.685	231	33.41	65.61	192.3	0.69234
7/22/04	1800	29.2	760	0	1.374	204.1	17.67	66.01	159.1	0.57263
7/22/04	1900	28.61	759	0	1.237	229.8	33.84	71	84.4	0.30395
7/22/04	2000	27.45	760	0	1.044	230.4	30.42	80.1	14.51	0.05223

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/22/04	2100	26.14	760	0	1.001	233.6	21.41	84.4	0.003	0.00001
7/22/04	2200	25.41	760	0	2.708	247.8	27	79.6	0.001	0
7/22/04	2300	22.12	761	0.2	3.432	250.4	15.28	89.4	0.024	0.00009
7/22/04	2400	21.42	761	0.2	0.787	205.9	79	93.9	0.067	0.00024
7/23/04	100	21.36	761	0	2.397	155.3	53.32	92.8	0.07	0.00025
7/23/04	200	21.15	760	0.1	1.02	243.9	39.95	94.6	0.086	0.00031
7/23/04	300	20.86	760	0	1.316	274.1	64.31	95.3	0.075	0.00027
7/23/04	400	20.63	760	0	0.895	9.51	28.51	95.4	0.022	0.00008
7/23/04	500	20.25	760	0	0.615	250.9	49.57	96.1	0.012	0.00004
7/23/04	600	20.16	760	0	0.765	232.5	39.14	96	4.197	0.01511
7/23/04	700	20.65	761	0	0.994	211.1	15.14	90.9	119.5	0.43031
7/23/04	800	22.2	761	0	1.129	229.6	33.26	83.4	256.2	0.9224
7/23/04	900	23.91	761	0	1.192	275.2	58.93	74.7	406.1	1.462
7/23/04	1000	26.13	762	0	1.065	72.3	57.43	66.01	588	2.1167
7/23/04	1100	27.44	761	0	1.372	299.7	73.7	63.24	648.5	2.3345
7/23/04	1200	28.48	761	0	1.425	343.4	45.19	61.44	757	2.7247
7/23/04	1300	30.07	761	0	1.23	286.4	64.54	57.23	679.7	2.4469
7/23/04	1400	29.85	761	0	1.911	274.3	65.76	59.5	600.8	2.1627
7/23/04	1500	30.04	761	0	2.131	268.5	35.89	55.43	584.3	2.1036
7/23/04	1600	31.01	761	0	2.178	280.9	40.95	54.83	583.5	2.1007
7/23/04	1700	31.48	760	0	1.866	293	42.24	53.83	454.6	1.6367
7/23/04	1800	31.08	760	0	1.763	311.6	25.03	53.76	280.2	1.0086
7/23/04	1900	30.26	760	0	1.29	301.5	31.8	59.6	116.7	0.42014
7/23/04	2000	27.89	760	0	0.633	314.4	30.31	73.1	11.71	0.04215
7/23/04	2100	26.09	761	0	0.729	5.207	24.33	80	0.031	0.00011
7/23/04	2200	25.29	761	0	0.541	349.8	22.21	82.4	0.006	0.00002
7/23/04	2300	24.48	762	0	0.603	318.6	50.02	85.5	0.033	0.00012
7/23/04	2400	24.23	762	0	0.98	31.72	25.1	84.3	0.078	0.00028
7/24/04	100	24.27	762	0	1.585	40.97	14.83	84	0.089	0.00032
7/24/04	200	24.03	762	0	1.817	37.57	12.58	84.7	0.092	0.00033
7/24/04	300	23.66	762	0	1.687	37.36	12.77	86	0.088	0.00032
7/24/04	400	23.17	762	0	1.914	36.9	12.44	87.1	0.093	0.00034
7/24/04	500	22.84	762	0	1.529	37.21	12.98	88.5	0.105	0.00038
7/24/04	600	22.61	762	0	1.462	38.17	13.68	87.7	6.535	0.02353
7/24/04	700	23.1	763	0	2.351	35.89	13.96	83.9	85.4	0.30743
7/24/04	800	24.35	764	0	2.658	36.31	15.3	78.2	243.4	0.87623
7/24/04	900	25.66	764	0	2.771	35.09	20.29	74.3	413.1	1.4872
7/24/04	1000	26.83	764	0	3.196	39.63	20.6	69.41	549.2	1.9772
7/24/04	1100	28.14	764	0	2.717	33.38	26.31	65.21	668.6	2.407
7/24/04	1200	29.28	764	0	2.108	28.09	46.8	62.41	772	2.7804
7/24/04	1300	29.81	764	0	2.611	27	35.72	61.94	769	2.768
7/24/04	1400	30.65	763	0	2.315	31.76	40.7	57.37	817	2.9425
7/24/04	1500	31.36	763	0	2.112	356.5	38.08	54.53	730	2.6279

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/24/04	1600	31.19	763	0	2.507	14.68	28.52	56.27	526.6	1.8958
7/24/04	1700	31.17	763	0	2.657	8.39	25.98	54.56	411.4	1.4809
7/24/04	1800	29.33	762	0	3.411	28.58	14.38	67.88	143.3	0.51575
7/24/04	1900	27.62	762	0	2.85	33.56	15.61	70.7	51.51	0.18543
7/24/04	2000	26.8	763	0	2.738	38.57	14	72.1	11.76	0.04235
7/24/04	2100	26	763	0	2.816	37.57	14.16	74.3	0.006	0.00002
7/24/04	2200	25.13	763	0	2.433	32.01	15.99	75.2	0.026	0.00009
7/24/04	2300	24.35	764	0	2.501	34.77	13.43	78	0.047	0.00017
7/24/04	2400	23.61	764	0	2.214	32.55	15.83	80	0.07	0.00025
7/25/04	100	23.05	764	0	1.829	33.91	15.64	80.5	0.112	0.0004
7/25/04	200	22.58	764	0	1.373	29.39	14.71	82.8	0.116	0.00042
7/25/04	300	22.25	763	0	1.395	37.18	12.79	83.3	0.139	0.0005
7/25/04	400	21.78	763	0	0.815	21.07	18.13	86.8	0.135	0.00049
7/25/04	500	21.31	764	0	0.694	19.22	20.46	88.4	0.082	0.0003
7/25/04	600	21.01	764	0	0.608	6.564	15.73	88.4	4.202	0.01513
7/25/04	700	21.76	764	0	1.335	31.6	13.86	83.4	73.1	0.26313
7/25/04	800	23.32	764	0	1.4	27.84	18.39	77.8	208.6	0.7508
7/25/04	900	25.77	765	0	0.968	54.26	49	70.5	396.4	1.4271
7/25/04	1000	27.1	765	0	1.149	88.6	77.9	67.48	528.1	1.9012
7/25/04	1100	28.46	764	0	1.529	216.6	67.07	61.94	659.2	2.3731
7/25/04	1200	29.36	764	0	2.318	210.9	29.32	60.5	677.9	2.4406
7/25/04	1300	29.84	764	0	1.859	231.2	38.05	60.54	606.9	2.1849
7/25/04	1400	29.16	763	0	2.714	193.3	30.11	63.84	325.7	1.1724
7/25/04	1500	29.12	763	0	2.264	261.8	41.05	67.98	485.9	1.7494
7/25/04	1600	28.82	763	0	2.068	313.2	30.78	70.6	252.4	0.90862
7/25/04	1700	26.32	762	0	2.387	208.4	57.83	77.2	98.8	0.35552
7/25/04	1800	23.82	763	4.1	3.053	128.6	55.89	93.7	12.57	0.04526
7/25/04	1900	21.64	763	0.7	3.279	113.9	35.12	89.4	9.34	0.03361
7/25/04	2000	21.65	763	0	1.672	238.8	32.36	93.7	4.94	0.01778
7/25/04	2100	21.51	763	0	0.844	13.81	38.56	94.5	0.113	0.00041
7/25/04	2200	21.51	764	0	1.008	15.94	44.59	94.9	0.121	0.00043
7/25/04	2300	21.41	764	0	0.54	354.8	39.24	95.2	0.111	0.0004
7/25/04	2400	21.29	763	0	0.934	231.6	21.6	95.7	0.119	0.00043
7/26/04	100	21.23	763	0	1.061	231.2	35.81	95.7	0.121	0.00044
7/26/04	200	21.04	763	0	0.995	217.8	10.13	95.7	0.107	0.00039
7/26/04	300	20.99	763	0	0.71	229.4	16.66	95	0.101	0.00036
7/26/04	400	20.98	763	0	0.844	231.5	19.86	94.6	0.081	0.00029
7/26/04	500	20.87	763	0	0.612	259.9	24.97	94.8	0.093	0.00033
7/26/04	600	20.79	763	0	0.686	246.6	36.17	94.6	1.974	0.00711
7/26/04	700	20.99	763	0	1.062	211.7	28.74	92.8	26.82	0.09654
7/26/04	800	21.6	763	0	1.319	194	23.69	90.5	82.2	0.29606
7/26/04	900	22.28	764	0	1.2	206	34.55	87.4	176.4	0.63496
7/26/04	1000	23.52	764	0	1.171	232.7	29.98	83.3	331	1.1915

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/26/04	1100	24.82	764	0	1.38	227.1	36.58	79.3	405	1.4578
7/26/04	1200	26.09	763	0	1.639	226.6	47.12	73.5	542.8	1.9542
7/26/04	1300	27.05	763	0	2.542	239.5	28.13	69.05	600.8	2.1627
7/26/04	1400	28.11	762	0	2.98	231.4	27.76	64.51	732	2.6347
7/26/04	1500	28.66	762	0	2.79	244.5	30.13	65.54	699.5	2.5183
7/26/04	1600	28.87	761	0	2.925	255.7	32.26	68.98	485.3	1.747
7/26/04	1700	28.31	761	0	2.177	313.9	29	71	255.1	0.91826
7/26/04	1800	26.82	761	0	2.035	331.4	42	74.8	131.7	0.47425
7/26/04	1900	25.51	761	0	1.738	309.5	36.36	72.1	35.06	0.12621
7/26/04	2000	22.43	761	5	1.566	259.8	72.4	94.8	0.244	0.00088
7/26/04	2100	21.47	762	0.8	0.93	10.88	34.16	95.7	0.038	0.00014
7/26/04	2200	21.45	761	0	1.417	138.4	45.87	95.1	0.081	0.00029
7/26/04	2300	21.49	762	0.3	1.752	194.1	22.74	95.1	0.083	0.0003
7/26/04	2400	21.48	762	0.1	1.525	207.9	18.25	95.3	0.078	0.00028
7/27/04	100	21.31	762	0	1.191	232.2	19.63	95.2	0.059	0.00021
7/27/04	200	21.14	761	0	0.846	259.8	32.74	95.6	0.068	0.00024
7/27/04	300	20.96	761	0	0.876	224.9	12.97	96.1	0.058	0.00021
7/27/04	400	20.91	761	0.2	0.9	221	13.58	95.5	0.067	0.00024
7/27/04	500	20.97	761	0.1	0.833	222.5	9.88	96.1	0.064	0.00023
7/27/04	600	20.97	761	0.8	0.869	229.2	18.65	96.5	0.655	0.00236
7/27/04	700	21.05	761	0	1.239	221.7	20.15	96.3	8.19	0.02949
7/27/04	800	21.24	761	0.2	1.315	224.8	16.88	95.9	18.2	0.06553
7/27/04	900	21.41	762	0.8	0.937	279.2	23.52	94.6	71.6	0.25777
7/27/04	1000	22.09	762	0	1.525	281.7	22.8	89.9	206.8	0.74446
7/27/04	1100	22.83	762	0	1.641	294.6	23.53	89	237.4	0.85475
7/27/04	1200	23.02	762	0	2.256	273.3	24.38	82.5	292.7	1.0539
7/27/04	1300	24.43	762	0	1.667	305	31.71	74.1	489.9	1.7637
7/27/04	1400	25	762	0	1.595	324.6	45.59	74.2	348.9	1.256
7/27/04	1500	25.38	761	0	1.087	286.5	50.92	74.7	348	1.2529
7/27/04	1600	25.97	761	0	1.255	296.9	63.58	66.01	397.7	1.4315
7/27/04	1700	25.57	761	0	2.117	57.98	51.64	78.1	308.6	1.1111
7/27/04	1800	24.59	761	0	1.931	133.2	32.89	74.5	160.9	0.57942
7/27/04	1900	24.64	761	0	1.146	135	35.97	80.8	84.1	0.30287
7/27/04	2000	23.81	761	0	1.021	168	28.85	85.1	7.51	0.02703
7/27/04	2100	22.48	761	0	1.047	244.8	22.82	90.9	0.009	0.00003
7/27/04	2200	22.1	762	0	1.356	25.72	41.37	80.1	0.049	0.00018
7/27/04	2300	21.23	762	0	2.059	31.11	15.36	82.5	0.063	0.00023
7/27/04	2400	20.33	762	0	1.918	25.4	14.45	78	0.036	0.00013
7/28/04	100	20.33	762	0	1.586	20.34	21.99	74.4	0.031	0.00011
7/28/04	200	20.1	762	0	2.719	44.75	19.29	76.8	0.053	0.00019
7/28/04	300	19.45	762	0	1.651	47.36	22.48	79.9	0.027	0.0001
7/28/04	400	18.29	762	0	1.068	27.6	31.61	83.7	0	0
7/28/04	500	17.92	762	0	1.511	29.33	12.16	83.4	0.001	0



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/28/04	600	17.63	762	0	0.905	16.47	17.26	82.7	5.305	0.0191
7/28/04	700	18.34	762	0	1.104	23.01	22.44	76.7	99.3	0.35758
7/28/04	800	19.84	763	0	1.99	47.5	21.5	74	267.4	0.96261
7/28/04	900	20.94	763	0	2.558	55.48	19.88	68.4	328.1	1.1812
7/28/04	1000	22.41	763	0	2.906	43.92	22.64	60.92	591.7	2.1301
7/28/04	1100	23.69	763	0	2.869	50.79	29.56	56.88	742	2.6727
7/28/04	1200	24.73	763	0	2.803	14.17	29.64	59.4	769	2.7681
7/28/04	1300	25.32	762	0	2.351	34.01	35.9	58.4	813	2.9254
7/28/04	1400	26.11	762	0	2.756	5.049	30.99	52.79	816	2.9391
7/28/04	1500	26.71	762	0	2.506	18.85	38.95	49.52	751	2.7053
7/28/04	1600	27.21	761	0	2.587	24.71	27.38	45.69	639.1	2.3007
7/28/04	1700	27.23	761	0	2.686	23.24	25.64	50.29	482	1.7352
7/28/04	1800	27.01	761	0	2.471	27.37	20.67	51.03	299	1.0765
7/28/04	1900	26.23	761	0	1.897	29.22	17.23	56.01	128.2	0.4616
7/28/04	2000	23.99	761	0	1.378	36.94	19.25	67.93	9.49	0.03418
7/28/04	2100	22.45	761	0	1.483	40.38	17.35	72.8	0.045	0.00016
7/28/04	2200	21.72	762	0	2.028	34.03	12.27	73.8	0.111	0.0004
7/28/04	2300	21.2	762	0	2.433	35.52	14	74.2	0.113	0.00041
7/28/04	2400	21.06	762	0	2.476	34.1	13.6	74.5	0.106	0.00038
7/29/04	100	20.74	761	0	2.345	35.96	11.98	77	0.099	0.00036
7/29/04	200	20.17	761	0	1.764	36.51	13.04	81.5	0.044	0.00016
7/29/04	300	19.5	761	0	1.708	40.92	9.37	84.8	0.008	0.00003
7/29/04	400	19.06	761	0	1.358	37.63	13.36	86.6	0.001	0
7/29/04	500	18.78	761	0	1.341	32.55	13.76	88.1	0.003	0.00001
7/29/04	600	18.63	761	0	1.35	30.23	18.07	87.6	5.026	0.01809
7/29/04	700	19.08	761	0	1.503	24.41	15.54	83.9	72.2	0.26003
7/29/04	800	20.8	762	0	2.153	31.52	16.25	78.1	220.4	0.79332
7/29/04	900	22.24	762	0	1.935	4.364	27.31	75.4	339.9	1.2238
7/29/04	1000	23.67	762	0	1.306	12.16	33.49	74.4	368	1.3249
7/29/04	1100	25.25	762	0	1.463	9.86	35.19	68.42	552	1.9873
7/29/04	1200	27.41	762	0	1.219	48.36	61.06	64.41	770	2.7715
7/29/04	1300	28.75	761	0	1.262	207.9	81.7	61.1	703	2.5319
7/29/04	1400	29.69	761	0	1.497	190.5	62.17	55.03	753	2.7103
7/29/04	1500	30.11	760	0	1.215	193	56.69	57.53	480.5	1.73
7/29/04	1600	26.81	760	0	3.486	220.9	32.56	78.2	242	0.87111
7/29/04	1700	25.91	761	0	2.31	136	28.4	79	187.1	0.6737
7/29/04	1800	25.33	761	0	2.401	140.4	30.63	82.6	52.22	0.188
7/29/04	1900	25.18	760	0	1.414	144	46.76	81.5	28.08	0.10109
7/29/04	2000	24.67	761	0	0.693	97.9	83.8	86.5	7.09	0.02551
7/29/04	2100	23.52	761	0	0.833	26.96	39.64	90	0.01	0.00004
7/29/04	2200	23.26	761	0	0.511	356.5	52.98	90.7	0.032	0.00012
7/29/04	2300	22.5	761	0	0.701	14.5	36.01	92.2	0.061	0.00022
7/29/04	2400	21.99	761	0	0.692	19.7	28.8	92.6	0.095	0.00034

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/30/04	100	21.57	761	0	0.526	5.758	31.99	93.8	0.103	0.00037
7/30/04	200	21.3	761	0	0.544	32.58	35.98	94.4	0.101	0.00036
7/30/04	300	21.49	761	0	0.451	36.23	21.11	94	0.109	0.00039
7/30/04	400	21.57	761	0	0.858	23.37	17.19	94.3	0.108	0.00039
7/30/04	500	21.36	761	0	0.579	355.4	40.42	95.2	0.108	0.00039
7/30/04	600	21.43	761	0	0.767	19.37	32.86	94.7	2.77	0.00997
7/30/04	700	21.84	761	0	0.757	341.4	31.18	92.7	36.04	0.12975
7/30/04	800	23.01	762	0	0.685	259	24.6	86.3	105.6	0.38017
7/30/04	900	24.35	762	0	1.05	230.8	38.61	81.7	231.3	0.83252
7/30/04	1000	26.17	762	0	1.688	193.5	53.24	70.5	516.1	1.8578
7/30/04	1100	27.62	762	0	3.258	172.5	27.7	64.44	653.5	2.3527
7/30/04	1200	28.91	762	0	3.284	193	27.45	57.5	734	2.6413
7/30/04	1300	29.49	762	0	3.753	197.4	23.8	61.4	729	2.6236
7/30/04	1400	29.72	761	0	3.275	192.9	27.82	54.3	628.4	2.2624
7/30/04	1500	29.99	761	0	2.914	210.7	27.86	57.87	383.1	1.3792
7/30/04	1600	30.21	760	0	3.144	219.9	26.96	57.43	523.6	1.8849
7/30/04	1700	29.73	760	0	2.874	201.4	16.52	59.97	222.4	0.80046
7/30/04	1800	28.95	760	0	2.52	209.9	19.03	66.31	192	0.69117
7/30/04	1900	27.82	760	0	1.6	208.1	21.24	69.05	38.67	0.13919
7/30/04	2000	26.81	761	0	1.403	210.6	16.32	73.8	4.085	0.01471
7/30/04	2100	26.08	761	0	1.208	210.1	20.84	83.6	0.011	0.00004
7/30/04	2200	25.38	761	0	0.859	206.9	30.91	75.1	0.001	0
7/30/04	2300	24.34	761	0	0.953	216.7	21.12	86.9	0.011	0.00004
7/30/04	2400	23.24	761	0	1.046	216.3	26.51	81.1	0.033	0.00012
7/31/04	100	23.31	761	0	1.24	229.5	19.24	87.6	0.027	0.0001
7/31/04	200	22.18	761	0	0.642	0.387	45.31	91.2	0.102	0.00037
7/31/04	300	21.72	761	0	0.501	278.7	38.72	93.2	0.109	0.00039
7/31/04	400	21.78	761	0	0.381	277.5	19.15	93.2	0.119	0.00043
7/31/04	500	21.26	761	0	0.874	255.7	19.23	94	0.113	0.00041
7/31/04	600	21.11	761	0	0.397	278.9	55.26	93.6	6.42	0.02311
7/31/04	700	21.95	761	0	0.929	37.8	38.8	88.5	82.6	0.2972
7/31/04	800	23.82	762	0	0.542	29.28	84.5	78.7	180.5	0.64982
7/31/04	900	24.73	762	0	1.068	263.1	47.45	81.6	136.5	0.49129
7/31/04	1000	25.95	762	0	1.36	223.1	28.07	74.9	265.7	0.95658
7/31/04	1100	27.68	762	0	2.997	210.1	22.58	69.48	409.4	1.4737
7/31/04	1200	26.61	762	1	2.725	228.9	44.83	89.2	125.1	0.45038
7/31/04	1300	23.48	762	16.4	1.796	311.1	52.9	95.8	21.04	0.07575
7/31/04	1400	21.87	763	2.7	1.473	223.1	42.78	97.2	11.5	0.0414
7/31/04	1500	22.05	763	1	1.167	195.9	41.21	97.1	110.3	0.39693
7/31/04	1600	22.32	762	0.2	1.274	194.3	27.24	96.3	139.1	0.50087
7/31/04	1700	23.17	762	0	1.497	143	23.91	91	196.7	0.70803
7/31/04	1800	23.79	761	0	1.181	113	35.58	88.5	158.1	0.56921
7/31/04	1900	23.92	761	0	0.773	229.6	70.1	89.1	76.7	0.27627

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
7/31/04	2000	23.31	761	0	0.711	315	56.81	94.1	9.62	0.03464
7/31/04	2100	22.71	761	0	1.115	22.23	28.04	95.2	0.004	0.00002
7/31/04	2200	22.49	762	0	1.038	31.41	20.33	95	0.01	0.00004
7/31/04	2300	22.37	762	0	0.289	4.309	71.3	95.3	0.029	0.0001
7/31/04	2400	22.76	762	0	1.575	88.9	60.88	94.1	0.027	0.0001
8/1/04	100	22.7	762	0	0.702	354.3	57.65	94.2	0.012	0.00004
8/1/04	200	22.41	762	0	1.086	30.52	31.83	95.3	0.025	0.00009
8/1/04	300	22.15	762	0	1.308	27.81	19.98	95	0.046	0.00016
8/1/04	400	22.05	762	0	1.042	39.74	17.78	95.1	0.051	0.00018
8/1/04	500	22.24	762	0	1.394	20.04	18.64	95.3	0.063	0.00023
8/1/04	600	22.06	762	0	1.46	20.34	18.55	95.6	1.766	0.00636
8/1/04	700	22.02	762	0	1.37	25.33	14.03	94.8	31.51	0.11344
8/1/04	800	22.78	763	0	1.064	50.13	27.76	91.2	116.2	0.41841
8/1/04	900	23.94	763	0	0.969	18.87	50.7	86.6	218	0.78496
8/1/04	1000	25.83	763	0	1.117	348.2	30.3	81	436.9	1.5727
8/1/04	1100	27.08	763	0	1.579	353.6	32.73	75.1	646.2	2.3265
8/1/04	1200	28.55	763	0	1.443	353.5	38.8	66.88	708	2.5482
8/1/04	1300	29.12	763	0	1.538	311.1	82	63.11	713	2.5683
8/1/04	1400	30.22	762	0	1.357	325	48.33	57.17	774	2.787
8/1/04	1500	30.89	762	0	1.758	341.5	60.7	57.27	747	2.6889
8/1/04	1600	31.17	761	0	1.849	1.725	40.05	55.46	562.3	2.0241
8/1/04	1700	31.16	761	0	2.284	1.614	24.34	57.87	473.6	1.705
8/1/04	1800	29.3	761	0	1.757	339.1	27.45	70	130.6	0.47014
8/1/04	1900	28.57	761	0	1.164	344.1	30.99	72.2	102.5	0.36908
8/1/04	2000	26.98	761	0	0.944	15.66	36.59	79.8	8.66	0.03116
8/1/04	2100	25.61	761	0	0.535	337.5	56.23	84.2	0.009	0.00003
8/1/04	2200	24.47	761	0	0.523	286.2	30.55	86.8	0.001	0
8/1/04	2300	24.07	761	0	0.416	298.8	21.26	89	0.008	0.00003
8/1/04	2400	23.73	761	0	0.918	21.66	25.33	86.4	0.019	0.00007
8/2/04	100	23.71	761	0	0.88	23.87	17.51	87.9	0.026	0.0001
8/2/04	200	23.38	761	0	1.056	38.33	20.07	87.7	0.012	0.00004
8/2/04	300	23.01	760	0	0.521	17.92	27.79	91.1	0.045	0.00016
8/2/04	400	22.3	760	0	0.429	281.9	38.47	92.9	0.032	0.00012
8/2/04	500	22.13	760	0	0.635	339.9	65.68	91.4	0.057	0.0002
8/2/04	600	22.16	760	0	0.949	16.75	30.81	91.3	2.987	0.01075
8/2/04	700	22.87	761	0	1.475	25.56	17.51	87.7	47.8	0.17208
8/2/04	800	23.84	761	0	2.235	40.84	13.74	83.2	138.9	0.50016
8/2/04	900	25.33	761	0	2.959	32.37	15.79	79.5	242.7	0.87369
8/2/04	1000	26.4	761	0	2.701	36.41	16.72	74.1	418.7	1.5074
8/2/04	1100	27.7	760	0	2.464	31.6	28.69	70.8	531.1	1.912
8/2/04	1200	28.92	760	0	3.16	42.1	24.84	64.88	605	2.1781
8/2/04	1300	29.96	760	0	2.227	22.09	39.37	65.64	742	2.6703
8/2/04	1400	30.55	760	0	2.316	350.7	37.05	58	727	2.6166

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/2/04	1500	31.06	759	0	2.823	2.251	30.09	51.06	701	2.5241
8/2/04	1600	29.83	759	0	2.691	341.1	43.23	64.54	352.7	1.2697
8/2/04	1700	29.46	758	0	1.511	300.4	32.03	61.51	420.7	1.5146
8/2/04	1800	29.89	758	0	1.65	338.5	32.38	60.4	239.4	0.8618
8/2/04	1900	28.64	758	0	2.005	35.02	19	66.11	66.93	0.24094
8/2/04	2000	26.81	759	0	1.653	48.8	14.63	70.4	6.815	0.02453
8/2/04	2100	25.19	759	0	0.702	22.14	46.32	76.3	0.082	0.00029
8/2/04	2200	23.74	759	0	0.683	22.14	35.76	82	0.043	0.00015
8/2/04	2300	22.85	759	0	0.606	328.2	39.28	84.5	0.126	0.00045
8/2/04	2400	22.32	759	0	0.964	40.27	26.21	82.3	0.168	0.0006
8/3/04	100	22.68	759	0	1.499	45.73	20.04	81	0.171	0.00062
8/3/04	200	22.18	759	0	0.408	334.5	34.53	87.3	0.174	0.00063
8/3/04	300	21.25	759	0	0.371	314.5	32.88	90.1	0.151	0.00054
8/3/04	400	20.4	759	0	0.949	258.5	38.97	93.8	0.144	0.00052
8/3/04	500	20.23	759	0	0.682	6.032	37.13	93.3	0.128	0.00046
8/3/04	600	20.07	759	0	0.345	326.6	24.88	94.1	3.903	0.01405
8/3/04	700	20.52	759	0	0.778	325.5	32.36	92.5	72.6	0.26132
8/3/04	800	22.16	760	0	0.705	13.51	48.03	83.4	219.1	0.78892
8/3/04	900	24.9	760	0	1.413	29.84	27.78	73.1	398.5	1.4345
8/3/04	1000	26.68	760	0	2.218	29.41	24.41	66.95	548.1	1.9732
8/3/04	1100	28.16	760	0	1.979	49.44	34.84	63.34	660.9	2.3793
8/3/04	1200	29.13	760	0	2.164	20.73	52.26	62.67	716	2.5764
8/3/04	1300	29.73	759	0	2.32	6.869	29.95	55.16	683.5	2.4606
8/3/04	1400	30.57	759	0	2.578	35.95	33.15	49.09	754	2.7138
8/3/04	1500	30.91	759	0	3.095	36	25.7	45.89	687.9	2.4763
8/3/04	1600	31.1	759	0	2.734	52.77	26.12	48.32	588.9	2.12
8/3/04	1700	31.05	759	0	2.548	28.89	22.36	50.99	439.9	1.5836
8/3/04	1800	30.74	758	0	2.204	33.47	15.84	49.02	267.9	0.96441
8/3/04	1900	29.44	758	0	1.461	60.79	17.87	63.57	99	0.35645
8/3/04	2000	26.83	759	0	0.759	4.097	31.03	75.6	7.08	0.02548
8/3/04	2100	24.98	759	0	0.536	339.2	31.1	81.3	0.057	0.00021
8/3/04	2200	23.5	759	0	0.85	270	34.64	89.1	0.03	0.00011
8/3/04	2300	22.65	759	0	0.592	338	31.06	89.4	0.087	0.00031
8/3/04	2400	22.04	759	0	0.822	15.29	19.17	90.5	0.162	0.00058
8/4/04	100	21.33	759	0	0.783	301.9	66.98	93.4	0.183	0.00066
8/4/04	200	20.94	759	0	1.281	19.4	22.16	93.2	0.182	0.00065
8/4/04	300	20.52	759	0	0.957	320.3	60.63	95	0.182	0.00066
8/4/04	400	20.12	759	0	1.115	253.1	33.34	96.7	0.184	0.00066
8/4/04	500	19.89	759	0	0.868	6.135	43.97	95.7	0.181	0.00065
8/4/04	600	19.68	759	0	0.529	331.8	28.87	95.8	3.616	0.01302
8/4/04	700	20.09	759	0	0.699	350.7	46.73	93.4	75.8	0.27272
8/4/04	800	21.93	759	0	1.091	2.003	23.95	88.5	243.9	0.87801
8/4/04	900	23.81	759	0	1.282	7.79	18.53	79.5	365	1.314

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/4/04	1000	25.79	760	0	1.387	341.6	67.81	69.76	513.9	1.8501
8/4/04	1100	26.98	759	0	1.492	247.1	37.3	65.98	556.7	2.004
8/4/04	1200	28.67	759	0	1.838	202.9	37.74	60.07	752	2.7056
8/4/04	1300	29.66	759	0	2.674	210.3	26.89	54.46	791	2.849
8/4/04	1400	30.49	759	0	2.952	241.2	26.65	48.99	764	2.7491
8/4/04	1500	31.15	758	0	2.67	220.3	23.97	51.56	676.7	2.4361
8/4/04	1600	31.39	758	0	2.621	229.8	23.61	50.96	553.7	1.9935
8/4/04	1700	31.42	757	0	2.512	239.3	23.58	51.96	404.9	1.4576
8/4/04	1800	31.02	757	0	1.76	237.8	34.28	59.8	226.4	0.8149
8/4/04	1900	29.6	757	0	0.994	268.7	33.91	70.2	76.1	0.274
8/4/04	2000	27.29	758	0	0.688	292.1	33.63	76.9	3.585	0.01291
8/4/04	2100	26.34	758	0	0.708	2.532	39.37	80.7	0.155	0.00056
8/4/04	2200	26.09	759	0	2.246	33.53	22.77	69.5	0.1	0.00036
8/4/04	2300	24.82	758	0	1.013	108.5	87.8	72.5	0.047	0.00017
8/4/04	2400	24.31	758	0	1.753	219.2	35.77	76.5	0.02	0.00007
8/5/04	100	24.38	757	0	1.969	174.8	17.27	75.1	0.041	0.00015
8/5/04	200	24.18	756	0	0.95	257.7	64.34	80.8	0.03	0.00011
8/5/04	300	23.52	757	0	0.84	296.2	52.66	84.4	0.037	0.00013
8/5/04	400	23.13	757	0	1.122	229.1	21.44	83.6	0.078	0.00028
8/5/04	500	22.69	757	0	1.518	233	22.71	85.9	0.083	0.0003
8/5/04	600	22.75	757	0	1.643	246.1	32.64	87.1	0.379	0.00137
8/5/04	700	22.55	758	0	1.305	187.7	51.35	91.2	16.06	0.05781
8/5/04	800	22.45	757	0.1	1.107	222.1	58.84	92.7	38.28	0.1378
8/5/04	900	22.78	758	0.1	1.103	26.72	44.98	91.6	87.3	0.31416
8/5/04	1000	22.93	758	1.8	1.378	308.1	49.07	94.4	73	0.26269
8/5/04	1100	22.37	758	0.6	1.494	285.6	32.69	94.8	52.26	0.18814
8/5/04	1200	22.76	758	0	1.486	35.65	27.75	88.3	215.8	0.7767
8/5/04	1300	24.45	758	0	1.064	37.64	48.7	80.1	581.6	2.0936
8/5/04	1400	25.88	757	0	1.378	319.1	56.31	72.3	650.1	2.3403
8/5/04	1500	26.87	757	0	1.562	327.3	51.86	74.4	610.8	2.199
8/5/04	1600	23.9	757	1.5	3.11	29.68	37.01	85.9	190.6	0.68603
8/5/04	1700	23.74	757	0	3.953	25.24	15.47	79.4	203.3	0.73194
8/5/04	1800	22.79	757	0	4.726	25.35	17.35	72.2	187.6	0.67547
8/5/04	1900	22.31	758	0	3.438	21.24	20.33	75.6	109.9	0.39577
8/5/04	2000	21.55	758	0	1.971	27.76	20.54	82.5	10.78	0.03879
8/5/04	2100	20.45	759	0	1.165	52.62	25.53	82.3	0.054	0.00019
8/5/04	2200	20.59	759	0	1.554	31	17.57	82.1	0.103	0.00037
8/5/04	2300	20.33	760	0	1.795	33.27	21.59	84	0.09	0.00032
8/5/04	2400	19.61	759	0	1.339	36.63	18.61	88.1	0.106	0.00038
8/6/04	100	18.8	759	0	1.394	53.99	21.98	90	0.067	0.00024
8/6/04	200	18.41	759	0	1.466	46.38	20.27	86	0.008	0.00003
8/6/04	300	18.11	759	0	2.099	41.01	11.62	85.8	0.001	0
8/6/04	400	17.72	759	0	2.596	38.08	14.78	83.7	0	0

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/6/04	500	17.19	760	0	2.102	50.87	15.86	85.5	0.002	0.00001
8/6/04	600	16.65	760	0	1.556	41.01	20.44	88.8	2.892	0.01041
8/6/04	700	16.98	761	0	1.522	49.55	21.9	82.4	96.6	0.34785
8/6/04	800	18.01	761	0	3.515	31.05	15.56	77.2	277.9	1.0003
8/6/04	900	19.2	761	0	4.043	32.94	17.17	75.1	452.6	1.6293
8/6/04	1000	20.69	761	0	3.689	28.45	20.97	66.17	584.8	2.1055
8/6/04	1100	22.03	761	0	4.386	33.52	19.34	50.61	721	2.5967
8/6/04	1200	22.64	761	0	4.51	34.54	18.83	49.74	816	2.936
8/6/04	1300	23.11	761	0	4.156	34.04	21.17	47.77	824	2.9672
8/6/04	1400	23.6	761	0	4.038	26.56	25.74	45.57	808	2.9099
8/6/04	1500	23.84	761	0	4.034	29.09	21.42	45.1	722	2.6009
8/6/04	1600	24.01	761	0	4.364	12.52	24.41	47.03	610.7	2.1985
8/6/04	1700	23.86	761	0	4.015	28.06	23.31	45.17	464.4	1.6717
8/6/04	1800	23.57	761	0	3.507	28.89	20.43	49.64	285.7	1.0286
8/6/04	1900	22.32	761	0	2.971	25.46	15.7	53.51	114.2	0.41125
8/6/04	2000	20.4	762	0	2.44	34.08	14.16	57.32	6.062	0.02182
8/6/04	2100	19.02	762	0	2.066	41.23	14.6	63.3	0.08	0.00029
8/6/04	2200	17.59	762	0	1.277	57.14	16.04	68.99	0.022	0.00008
8/6/04	2300	16.66	762	0	1.654	29.52	14.65	71.6	0.001	0
8/6/04	2400	16.02	762	0	1.494	35.53	13.81	74.1	0.011	0.00004
8/7/04	100	15.21	762	0	2.324	46.48	16.11	75	0.038	0.00014
8/7/04	200	14.69	762	0	1.659	39.5	12.58	79.3	0.08	0.00029
8/7/04	300	13.72	763	0	1.861	55.56	9.2	82.6	0.128	0.00046
8/7/04	400	13.39	762	0	1.95	52.28	10.78	81.2	0.124	0.00045
8/7/04	500	13.14	763	0	1.596	37.75	14.06	83.6	0.07	0.00025
8/7/04	600	12.65	763	0	1.619	44.5	13.46	84.3	3.493	0.01257
8/7/04	700	13.48	763	0	2.118	41	11.7	80.7	84.1	0.30273
8/7/04	800	15.74	763	0	1.845	31.92	18.04	70.4	250.4	0.90155
8/7/04	900	18.31	764	0	2.936	39.13	16.28	61.83	414.1	1.4907
8/7/04	1000	20.06	764	0	3.582	56.08	21.74	49.54	563.4	2.0284
8/7/04	1100	21.52	764	0	3.499	58.35	24.12	45.9	707	2.5466
8/7/04	1200	22.62	764	0	3.254	66.09	26.68	39.09	778	2.8024
8/7/04	1300	23.57	763	0	2.407	93.6	55.76	46.06	800	2.8817
8/7/04	1400	24.37	763	0	2.62	32.39	32.19	38.98	757	2.7267
8/7/04	1500	24.96	763	0	2.002	33.66	49.47	38.48	695.1	2.5023
8/7/04	1600	25.18	762	0	2.217	14.91	34.15	40.15	584.2	2.1031
8/7/04	1700	25.2	762	0	2.364	15.08	28.35	37.21	439.5	1.5821
8/7/04	1800	25.15	762	0	2.263	28.4	30.31	36.82	285.1	1.0265
8/7/04	1900	24.37	762	0	1.518	69.71	69.34	46.34	113.1	0.40724
8/7/04	2000	20.81	762	0	0.589	316.6	41.08	66.1	5.814	0.02093
8/7/04	2100	18.32	763	0	0.762	0.663	26.51	77.4	0.016	0.00006
8/7/04	2200	16.89	763	0	0.781	6.999	21.18	82.1	0.002	0.00001
8/7/04	2300	15.83	763	0	1.054	20.14	20	84.2	0.014	0.00005

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/7/04	2400	15.14	763	0	0.766	16.27	20.95	87.7	0.054	0.00019
8/8/04	100	14.51	764	0	0.464	21.79	31.73	89.1	0.11	0.0004
8/8/04	200	13.68	763	0	0.827	278.9	52.88	92.8	0.115	0.00041
8/8/04	300	13.45	764	0	0.579	7.08	45.96	93.1	0.106	0.00038
8/8/04	400	13.22	764	0	0.995	36.46	10.93	92.5	0.069	0.00025
8/8/04	500	12.94	764	0	0.529	21.25	15.68	94.2	0.083	0.0003
8/8/04	600	12.78	765	0	0.757	39.3	19.51	92.7	2.605	0.00938
8/8/04	700	13.66	765	0	0.731	40.49	30.55	87.3	90.9	0.32706
8/8/04	800	16.81	765	0	0.613	20.25	27.68	78.6	272.6	0.98134
8/8/04	900	19.62	766	0	0.837	358.9	38.35	69.24	437.3	1.5742
8/8/04	1000	21.89	766	0	1.181	203.9	58.39	62.13	592.7	2.1338
8/8/2004	1100	23.28	766	0	1.601	240	63.52	56.81	696.3	2.5065
8/8/2004	1200	24.51	766	0	2.448	225.2	38.64	57.24	762	2.7441
8/8/2004	1300	25.3	766	0	2.112	233.3	41.83	53.06	770	2.7706
8/8/2004	1400	26.08	765	0	1.789	270.1	48.82	43.22	779	2.8042
8/8/2004	1500	26.72	765	0	1.674	195.8	70	41.08	712	2.5639
8/8/2004	1600	27.06	764	0	1.535	191.8	73.3	45.52	582.9	2.0984
8/8/2004	1700	27.37	764	0	1.365	331.5	74.6	36.98	420.4	1.5136
8/8/2004	1800	27.19	764	0	1.127	333.7	32.44	49.52	253.3	0.91171
8/8/2004	1900	25.07	764	0	1.065	293.7	16.08	63.42	75.6	0.27199
8/8/2004	2000	22.55	765	0	0.689	303	40.18	72.8	5.172	0.01862
8/8/2004	2100	21.13	765	0	0.812	13.5	23.93	79.8	0.005	0.00002
8/8/2004	2200	19.94	765	0	0.795	6.383	19.78	81.7	0	0
8/8/2004	2300	18.65	765	0	0.544	286.4	41.37	86.6	0.002	0.00001
8/8/2004	2400	17.8	765	0	0.505	346.8	24.05	90.1	0.006	0.00002
8/9/2004	100	16.94	765	0	0.773	268.3	26.67	92.9	0.014	0.00005
8/9/2004	200	16.57	765	0	0.637	12.73	19.32	92.9	0.029	0.0001
8/9/2004	300	16.3	765	0	0.793	15.03	17.43	92.8	0.028	0.0001
8/9/2004	400	16.25	765	0	1.027	28.17	11.95	92.9	0.035	0.00013
8/9/2004	500	16.23	765	0	0.505	352.4	20.52	93.9	0.046	0.00016
8/9/2004	600	16.11	765	0	0.578	351.8	26.52	93.7	1.877	0.00676
8/9/2004	700	16.47	766	0	0.608	338.7	25.79	92	35.33	0.12719
8/9/2004	800	17.88	766	0	0.631	327.4	29.42	86.8	117.8	0.42415
8/9/2004	900	20.22	766	0	0.719	185.1	39.3	79.1	228	0.82085
8/9/2004	1000	22.14	766	0	0.97	223.2	34.55	70.3	397.5	1.4312
8/9/2004	1100	22.57	767	0	1.313	174.4	33.96	66.2	270.5	0.97384
8/9/2004	1200	23.2	766	0	1.419	193.7	42.11	62.66	368.8	1.3278
8/9/2004	1300	24.11	766	0	1.187	212.7	42.09	57.45	472.4	1.7008
8/9/2004	1400	25.24	766	0	1.585	238.6	41.79	59.54	588.4	2.1183
8/9/2004	1500	25.51	765	0	1.927	267.5	36.39	55.93	403.1	1.451
8/9/2004	1600	25.57	765	0	1.729	255.1	22.99	51	373.2	1.3436
8/9/2004	1700	26.11	764	0	1.022	291.9	46.59	55.77	280.5	1.0099
8/9/2004	1800	25.69	764	0	1.131	334.7	17.25	63.19	183.6	0.6608

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/9/2004	1900	24.27	764	0	0.74	14.03	40.01	73.5	74.6	0.26855
8/9/2004	2000	22.32	764	0	0.447	349.8	31.83	80.7	6.169	0.02221
8/9/2004	2100	20.51	764	0	0.644	351	32.3	84.5	0.018	0.00007
8/9/2004	2200	19.19	764	0	0.578	294	37.79	88.7	0.004	0.00001
8/9/2004	2300	18.56	764	0	0.408	300.7	27.74	90.9	0.001	0
8/9/2004	2400	17.87	764	0	0.492	315.3	38.54	93.1	0	0
8/10/2004	100	17.42	764	0	0.533	267.5	20.12	94.3	0.001	0
8/10/2004	200	17.25	764	0	0.461	1.167	24.49	92.7	0.004	0.00001
8/10/2004	300	16.95	763	0	0.38	323.9	49.85	94.5	0.006	0.00002
8/10/2004	400	16.82	763	0	0.602	11.25	17.47	94.3	0.01	0.00003
8/10/2004	500	16.81	763	0	0.623	3.763	27.5	95	0.009	0.00003
8/10/2004	600	16.48	763	0	0.628	264.1	28.42	95.8	2.526	0.00909
8/10/2004	700	17.13	763	0	0.774	6.418	24.69	92.6	66.56	0.23963
8/10/2004	800	19.34	764	0	0.545	42.88	49.99	85.2	200.6	0.72211
8/10/2004	900	22.23	764	0	1.154	136.8	54.01	72.3	386.9	1.3929
8/10/2004	1000	24.25	763	0	1.832	225.3	25.58	64.66	548.3	1.9738
8/10/2004	1100	26.05	763	0	2.317	223.5	24.43	59.54	667.8	2.404
8/10/2004	1200	27.19	763	0	2.444	223.6	28.16	52.66	738	2.6576
8/10/2004	1300	27.92	763	0	2.202	220.1	32.41	51.73	695.6	2.5041
8/10/2004	1400	28.72	762	0	2.013	202.7	36.26	45.62	691.8	2.4906
8/10/2004	1500	29.05	761	0	1.624	194.5	37.52	41.75	541	1.9475
8/10/2004	1600	29.44	761	0	2.365	239.7	33.76	45.42	506.3	1.8226
8/10/2004	1700	29.38	761	0	2.182	237.3	26.11	52.29	385.7	1.3885
8/10/2004	1800	28.92	760	0	2.052	241.5	22.86	53.66	215.5	0.77571
8/10/2004	1900	27.38	760	0	1.161	234.7	23.29	64.05	63.53	0.22872
8/10/2004	2000	24.91	760	0	0.79	270.5	24.69	72.4	3.326	0.01197
8/10/2004	2100	23.91	760	0	1.533	240.2	20.46	75	0.086	0.00031
8/10/2004	2200	23.84	761	0	1.858	221.7	17.36	77.2	0.073	0.00026
8/10/2004	2300	23.35	761	0	1.813	225.4	29.22	79.4	0.073	0.00026
8/10/2004	2400	22.81	761	0	2.205	210.7	15.51	81.3	0.044	0.00016
8/11/2004	100	22.13	761	0	1.972	214.9	17.06	84.1	0.03	0.00011
8/11/2004	200	21.55	761	0	2.09	219.7	14.95	86.5	0.006	0.00002
8/11/2004	300	21.25	761	0	2.369	225.1	16.84	87.9	0.005	0.00002
8/11/2004	400	20.97	761	0	1.752	224.2	16.61	88.7	0.002	0.00001
8/11/2004	500	20.52	761	0	1.893	224.2	18.82	89.1	0.002	0.00001
8/11/2004	600	20.35	761	0	1.799	227.2	16.51	89.8	1.035	0.00372
8/11/2004	700	20.42	761	0	1.711	230.2	16.01	88.9	22.69	0.08169
8/11/2004	800	20.91	761	0	1.882	228.4	19.38	84.4	82.2	0.29605
8/11/2004	900	21.78	761	0	2.367	233	25.73	81.6	168.1	0.60519
8/11/2004	1000	22.59	761	0	2.227	230.2	22.41	83.7	205.2	0.73855
8/11/2004	1100	23.38	761	0	1.819	223.5	29.41	74.2	328.3	1.1817
8/11/2004	1200	24.85	761	0	1.634	228.5	36.01	69.59	588.6	2.1191
8/11/2004	1300	26.47	761	0	1.966	221	42.3	66.18	744	2.678



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/11/2004	1400	27.7	760	0	2.473	225	36.97	59.27	735	2.6457
8/11/2004	1500	28.27	760	0	2.63	224.9	23.63	57.43	502.4	1.8087
8/11/2004	1600	28.01	759	0	2.192	298.1	36.35	60.34	313.7	1.1294
8/11/2004	1700	27.51	759	0	1.873	316.9	24.33	64.81	270.6	0.97425
8/11/2004	1800	25.93	759	0	2.21	340.6	28.39	73.3	99.4	0.35771
8/11/2004	1900	23.01	760	0	2.066	339.2	25.31	78.7	30.12	0.10844
8/11/2004	2000	21.78	760	0	1.694	338.2	23.35	85	1.176	0.00423
8/11/2004	2100	21.38	760	0	1.313	60.84	73.4	83.3	0.054	0.00019
8/11/2004	2200	21.25	760	0	1.03	192.9	86.9	86.4	0.029	0.00011
8/11/2004	2300	20.63	761	0	1.004	246.6	24.69	92.7	0.023	0.00008
8/11/2004	2400	20.37	761	0.6	0.616	311.1	72	94.9	0.008	0.00003
8/12/2004	100	20.21	761	0.2	1.58	68.36	31.42	95.5	0.007	0.00002
8/12/2004	200	19.85	760	0.1	2.592	64.64	18.22	89	0.008	0.00003
8/12/2004	300	18.53	759	0	1.804	30.62	16.55	91.2	0.001	0
8/12/2004	400	17.96	759	0	1.864	25.39	16.57	89.9	0.001	0
8/12/2004	500	17.86	759	0	2.173	33.44	15.22	88.6	0.001	0
8/12/2004	600	17.87	759	0	2.165	37.79	14.06	88.4	0.209	0.00075
8/12/2004	700	17.61	759	0	1.905	36.82	17.43	91.3	5.016	0.01806
8/12/2004	800	17.36	759	0.4	2.565	22.92	16.13	90.9	10.46	0.03764
8/12/2004	900	16.89	759	1.6	2.239	15.42	21.33	95.1	12.43	0.04475
8/12/2004	1000	16.91	759	1.6	1.842	0.553	30.31	96	40.53	0.14592
8/12/2004	1100	16.94	759	1.4	1.746	7.23	55.85	95.9	54.47	0.1961
8/12/2004	1200	16.92	759	1.7	1.211	49.71	37.62	95.8	69.55	0.2504
8/12/2004	1300	17.36	759	0	1.475	42.32	23.79	93.7	122.6	0.4414
8/12/2004	1400	17.61	759	0	0.969	339.6	64.99	93.8	65.41	0.23546
8/12/2004	1500	17.95	759	0	1.098	349.4	32.01	93.1	68.9	0.24802
8/12/2004	1600	17.56	759	0	1.543	11.51	40.57	94.4	52.33	0.18837
8/12/2004	1700	17.39	759	0.1	0.786	319.8	38.95	89.7	52.12	0.18763
8/12/2004	1800	17.7	760	0	0.839	350.2	29.31	88.2	62.33	0.22438
8/12/2004	1900	17.54	760	0	0.723	31.17	43.05	91.9	27.4	0.09863
8/12/2004	2000	16.88	760	0	0.631	63.98	16.48	92.9	1.975	0.00711
8/12/2004	2100	16.7	761	0	1.59	50.7	18.1	88.5	0	0
8/12/2004	2200	16.1	761	0	1.626	56.64	14.95	89.5	0.001	0
8/12/2004	2300	15.99	761	0	1.75	47.55	17.63	88.9	0.002	0.00001
8/12/2004	2400	15.86	761	0	1.997	39.5	15.48	84.9	0.001	0
8/13/2004	100	15.25	761	0	0.899	51.9	24.61	91.9	0.002	0.00001
8/13/2004	200	14.24	761	0	0.582	17.62	24.45	94.7	0.024	0.00009
8/13/2004	300	13.44	761	0	0.388	8.66	35.91	95.7	0.072	0.00026
8/13/2004	400	12.88	760	0	0.322	310.2	29.92	96.3	0.11	0.00039
8/13/2004	500	13.04	761	0	0.621	348.6	28.62	96.8	0.116	0.00042
8/13/2004	600	12.75	761	0	0.649	284.6	46.09	97.5	1.18	0.00425
8/13/2004	700	12.98	761	0	0.831	342	20.13	95.5	74.6	0.26871
8/13/2004	800	14.51	762	0	1.74	6.546	14.22	85.8	260.1	0.93624

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/13/2004	900	16.33	762	0	2.692	5.694	14.54	74.7	436.1	1.5698
8/13/2004	1000	18.43	763	0	2.744	18.64	25.54	64.26	600.9	2.1632
8/13/2004	1100	19.56	763	0	3.513	11.61	24.39	59.16	615.8	2.2167
8/13/2004	1200	20.46	763	0	3.504	38.97	26.64	50.14	646.3	2.3266
8/13/2004	1300	20.57	763	0	3.17	359.4	20.77	57.39	445.4	1.6034
8/13/2004	1400	21.2	763	0	3.116	9.75	31.73	52.85	573	2.0629
8/13/2004	1500	21.66	763	0	2.68	15.77	34.42	54.88	499.5	1.7981
8/13/2004	1600	21.15	763	0	2.599	17.57	19.35	58.15	238.3	0.85789
8/13/2004	1700	20.98	763	0	1.754	339.2	23.39	57.92	225.7	0.8124
8/13/2004	1800	20.03	763	0	2.21	3.233	24.33	64.3	102.4	0.36855
8/13/2004	1900	19.02	763	0	1.916	30.71	14.29	69.14	49.27	0.17737
8/13/2004	2000	18.13	763	0	1.536	29.44	18.51	74.4	2.991	0.01077
8/13/2004	2100	17.43	764	0	1.489	33.52	21.52	73.4	0	0
8/13/2004	2200	16.37	764	0	1.485	48.76	23.01	72.4	0.001	0
8/13/2004	2300	16.37	764	0	1.78	33.33	15.38	73.6	0.006	0.00002
8/13/2004	2400	16.28	764	0	2.128	36.26	13.6	74.6	0.007	0.00002
8/14/2004	100	16.2	764	0	2.27	35.84	13.28	77.1	0.006	0.00002
8/14/2004	200	15.84	764	0	2.524	29.03	13.11	78.2	0.005	0.00002
8/14/2004	300	15.53	764	0	1.805	34.59	14.02	80.2	0.045	0.00016
8/14/2004	400	15.02	763	0	1.991	39.95	11.57	83.9	0.077	0.00028
8/14/2004	500	14.97	763	0	2.605	33.88	12.61	81.4	0.105	0.00038
8/14/2004	600	14.97	764	0	2.354	35.8	11.63	83.6	1.228	0.00442
8/14/2004	700	14.78	764	0	1.883	32.43	11.54	82.6	48.09	0.17313
8/14/2004	800	16.4	764	0	3.554	35.25	13.28	72.9	233.7	0.84138
8/14/2004	900	18.39	764	0	3.524	29.2	14.47	69.37	433.5	1.5605
8/14/2004	1000	19.97	765	0	3.389	30.27	18.63	61.96	606.2	2.1822
8/14/2004	1100	21.49	765	0	3.703	18.13	26.41	61.23	720	2.5912
8/14/2004	1200	22.39	765	0	3.452	32.47	23.08	56.22	787	2.8348
8/14/2004	1300	23.38	764	0	3.432	9.22	28.13	55.74	779	2.806
8/14/2004	1400	23.89	764	0	2.911	11.56	33.59	52.17	657.5	2.3672
8/14/2004	1500	24.36	764	0	2.891	31.54	31.8	51.4	552.5	1.989
8/14/2004	1600	24.28	764	0	2.567	14.22	31.29	45.4	445.9	1.6053
8/14/2004	1700	24.59	764	0	2.961	26.62	20.09	50.2	418.9	1.5081
8/14/2004	1800	24.12	764	0	2.829	18.87	22.38	53.38	259.5	0.93426
8/14/2004	1900	22.66	764	0	2.281	25.82	12.91	58.89	66.22	0.23838
8/14/2004	2000	20.6	764	0	1.011	10.61	26.2	68.74	3.839	0.01382
8/14/2004	2100	18.67	765	0	0.508	358	34.98	76.2	0.008	0.00003
8/14/2004	2200	17.74	765	0	0.482	313.9	30.31	76.4	0.001	0
8/14/2004	2300	17.11	765	0	0.658	300.4	37.72	85.9	0.002	0.00001
8/14/2004	2400	15.97	765	0	1.095	249.5	17.31	90.7	0.007	0.00002
8/15/2004	100	15.86	766	0	0.465	308	38.01	91.2	0.026	0.00009
8/15/2004	200	15.73	765	0	0.846	13.91	42.36	91.7	0.016	0.00006
8/15/2004	300	15.59	765	0	0.836	9.85	18.56	91.4	0.019	0.00007

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/15/2004	400	15.78	765	0	0.959	12.34	30.18	90.4	0.043	0.00016
8/15/2004	500	15.78	765	0	1.223	4.277	73.5	88.7	0.05	0.00018
8/15/2004	600	16.03	766	0	0.815	356.9	49.69	89.4	0.937	0.00337
8/15/2004	700	15.86	766	0	0.737	355.4	21.69	88	53.58	0.19288
8/15/2004	800	17.32	766	0	0.69	350.9	38.67	77.8	194.7	0.70107
8/15/2004	900	19.17	767	0	1.662	8.2	25.93	72.5	274.5	0.98831
8/15/2004	1000	20.89	767	0	2.164	40.88	23.05	65.13	458.8	1.6518
8/15/2004	1100	22.38	767	0	2.751	45.37	25.63	56.72	665.9	2.3971
8/15/2004	1200	23.71	767	0	2.792	23.65	26.31	57.21	759	2.7318
8/15/2004	1300	24.59	766	0	3.009	28.36	33.27	55.9	721	2.5939
8/15/2004	1400	24.91	766	0	2.417	13.52	31.18	56.17	532.1	1.9154
8/15/2004	1500	25.28	766	0	2.487	1.281	27.46	54.53	491.1	1.7681
8/15/2004	1600	25.46	766	0	2.347	9.34	39.5	56.17	445.9	1.6053
8/15/2004	1700	25.71	766	0	2.073	337.2	24.32	56.07	362.1	1.3037
8/15/2004	1800	25.17	765	0	2.062	0.465	26.17	55.15	232.1	0.83542
8/15/2004	1900	23.88	765	0	1.94	34.04	15.53	62.66	49.72	0.17899
8/15/2004	2000	22.34	766	0	1.405	41.23	18.83	70.3	2.248	0.00809
8/15/2004	2100	20.83	766	0	0.931	22.01	36.46	76.1	0.049	0.00018
8/15/2004	2200	19.33	766	0	0.683	352.6	31.81	81.5	0.018	0.00007
8/15/2004	2300	18.29	766	0	0.473	325.9	26.52	84.5	0	0
8/15/2004	2400	17.41	766	0	0.403	284.2	16.99	87.8	0.001	0
8/16/2004	100	16.77	766	0	0.601	289.9	46.14	88.2	0.002	0.00001
8/16/2004	200	16.63	766	0	0.604	359.5	31.86	91	0.005	0.00002
8/16/2004	300	16.33	766	0	0.589	1.328	23.14	93.5	0.007	0.00003
8/16/2004	400	16.17	766	0	0.781	11.48	12.74	93.9	0.006	0.00002
8/16/2004	500	15.96	766	0	0.544	355.8	31.82	93.8	0.017	0.00006
8/16/2004	600	15.7	766	0	0.636	249.5	45.46	93.7	1.549	0.00557
8/16/2004	700	15.96	767	0	0.989	245.2	21.24	92.1	57.25	0.20609
8/16/2004	800	17.62	767	0	1.061	255.3	75.7	79	193.6	0.69697
8/16/2004	900	20.83	767	0	2.047	30.52	22.78	71.8	372.8	1.3421
8/16/2004	1000	22.77	767	0	2.493	30.67	22.49	65.73	532.9	1.9184
8/16/2004	1100	23.9	767	0	1.998	40.68	38.35	63.45	581.7	2.0942
8/16/2004	1200	24.59	767	0	1.404	28.42	66.37	59.78	526.5	1.8955
8/16/2004	1300	25.47	767	0	1.364	16.62	50.98	57.17	500.1	1.8002
8/16/2004	1400	26	766	0	1.323	14.58	50.41	51.66	544.6	1.9605
8/16/2004	1500	26.65	766	0	0.901	296.6	55.05	46.42	385.9	1.3891
8/16/2004	1600	26.68	765	0	1.876	316.7	40.09	48.42	457.6	1.6472
8/16/2004	1700	26.91	765	0	1.969	356.6	33.42	55.26	403.1	1.451
8/16/2004	1800	25.49	765	0	1.62	2.248	18.25	63.32	129.8	0.46745
8/16/2004	1900	24.1	765	0	0.685	34.13	36.06	69.74	62.79	0.22604
8/16/2004	2000	22.17	765	0	0.755	11.19	29.62	80.1	5.31	0.01912
8/16/2004	2100	20.53	765	0	0.66	8.28	25.86	86.5	0.072	0.00026
8/16/2004	2200	19.64	765	0	0.691	5.952	21.34	86.1	0.02	0.00007

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/16/2004	2300	19.36	765	0	0.708	20.14	20.07	81	0.009	0.00003
8/16/2004	2400	18.99	765	0	0.486	2.013	31.44	82.4	0.008	0.00003
8/17/2004	100	18.38	765	0	0.267	286.7	19.08	87.9	0.002	0.00001
8/17/2004	200	17.72	765	0	0.776	261.5	20.08	90.6	0.001	0
8/17/2004	300	17.42	765	0	0.427	334.1	36.91	91.2	0.001	0
8/17/2004	400	17.3	765	0	0.675	4.75	22.27	91.5	0	0
8/17/2004	500	17.17	765	0	0.942	23.67	18.66	88.3	0	0
8/17/2004	600	17.53	765	0	0.739	332	62.35	89.2	0.277	0.001
8/17/2004	700	18.11	765	0	1.109	28.31	29.88	87.2	15.88	0.05715
8/17/2004	800	19.03	765	0	1.638	30.52	19.4	81.7	108.5	0.39045
8/17/2004	900	20.98	765	0	1.387	35.51	33.4	74.2	275.5	0.99186
8/17/2004	1000	22.99	765	0	1.423	84.7	52.78	69.07	496.7	1.7881
8/17/2004	1100	24.58	765	0	1.119	80.3	54.95	64.55	648.8	2.3357
8/17/2004	1200	25.59	765	0	0.9	352.5	78.3	63.97	425.3	1.5311
8/17/2004	1300	26.19	764	0	1.009	79.3	65.24	58.9	617.1	2.2216
8/17/2004	1400	26.96	764	0	1.451	32.92	73.5	58.03	567.5	2.0431
8/17/2004	1500	27.93	763	0	1.799	18.98	71.4	49.56	651.9	2.3467
8/17/2004	1600	28.43	762	0	1.697	236.9	49.99	47.56	511.2	1.8403
8/17/2004	1700	28.28	762	0	2.031	279.4	32.33	50.29	386.9	1.393
8/17/2004	1800	27.83	762	0	1.556	295.3	24.07	52.83	214.1	0.77058
8/17/2004	1900	25.98	762	0	0.725	330.3	27.57	70.1	64.94	0.23377
8/17/2004	2000	23.42	762	0	0.666	302	32.32	78.6	2.258	0.00813
8/17/2004	2100	22.04	762	0	0.637	333.7	29.68	85	0.041	0.00015
8/17/2004	2200	21.02	762	0	0.768	0.142	26.63	89.3	0.064	0.00023
8/17/2004	2300	20.16	762	0	0.562	352.2	34.07	91.9	0.034	0.00012
8/17/2004	2400	19.55	762	0	0.692	351.9	25.51	93.6	0.022	0.00008
8/18/2004	100	19.07	762	0	0.649	295.8	57.5	95.2	0.011	0.00004
8/18/2004	200	18.79	762	0	0.51	346.9	24.8	95	0.009	0.00003
8/18/2004	300	18.35	762	0	0.7	259.6	29.62	95.5	0.004	0.00001
8/18/2004	400	17.83	762	0	0.693	258.8	47.3	95.6	0.002	0.00001
8/18/2004	500	17.4	762	0	0.761	348.7	42.49	96.7	0	0
8/18/2004	600	17.05	762	0	0.554	301.7	50.43	96.8	1.058	0.00381
8/18/2004	700	17.01	763	0	0.687	272.8	39.67	96.8	52.1	0.18756
8/18/2004	800	19.01	763	0	0.773	347.6	43.07	84.7	204.9	0.7377
8/18/2004	900	22.09	763	0	0.784	218.2	24.86	72.7	393.3	1.4159
8/18/2004	1000	24.18	763	0	1.439	238.6	32.51	71.5	549.9	1.9797
8/18/2004	1100	25.8	763	0	2.354	227.7	25.85	50.49	660.3	2.3773
8/18/2004	1200	27.17	763	0	2.044	208.3	33.29	47.12	737	2.6536
8/18/2004	1300	27.65	762	0	2.457	225	33.03	51.69	756	2.7222
8/18/2004	1400	28.45	762	0	2.684	215.8	27.8	49.79	725	2.6089
8/18/2004	1500	28.8	762	0	2.996	229.1	31.85	49.66	632.7	2.2776
8/18/2004	1600	29.06	761	0	3.004	241.6	26.38	53.26	529.1	1.9048
8/18/2004	1700	29.18	761	0	2.926	235.8	19.83	50.13	372.7	1.3417

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8/18/2004	1800	28.93	761	0	2.414	237	21.09	54.7	209.5	0.75416
8/18/2004	1900	27.91	761	0	1.342	221.7	13.08	64.15	63.12	0.22723
8/18/2004	2000	25.17	761	0	1.013	247	12.09	76.5	1.606	0.00578
8/18/2004	2100	23.65	761	0	1.333	249.6	10.33	79.9	0.011	0.00004
8/18/2004	2200	22.63	762	0	1.535	243.8	5.97	87.5	0.066	0.00024
8/18/2004	2300	21.77	762	0	1.667	234.4	10.78	85.2	0.111	0.0004
8/18/2004	2400	21.73	762	0	1.502	242	8.27	86.5	0.119	0.00043
8/19/2004	100	21	762	0	1.275	242.7	9.76	88.6	0.112	0.0004
8/19/2004	200	20.62	763	0	1.262	242.4	9.04	86.8	0.091	0.00033
8/19/2004	300	20.81	763	0	1.175	245.7	7.5	89.9	0.07	0.00025
8/19/2004	400	20.4	763	0	0.755	257.1	23.42	89.2	0.067	0.00024
8/19/2004	500	19.97	763	0	0.901	256.8	17.92	91.7	0.059	0.00021
8/19/2004	600	19.76	764	0	0.864	243.1	19.34	91	0.866	0.00312
8/19/2004	700	20.12	764	0	1.158	251.6	18.22	89.5	48.92	0.17613
8/19/2004	800	22.1	764	0	1.014	240	11.9	81	199.3	0.71741
8/19/2004	900	24.17	764	0	1.666	215.6	20.52	72.4	369.2	1.3293
8/19/2004	1000	26.08	765	0	1.914	218.4	27.07	65.88	526.1	1.8938
8/19/2004	1100	27.8	764	0	1.819	219	31.45	60.8	653.1	2.3513
8/19/2004	1200	28.85	764	0	1.756	252.9	57.01	58.1	654.4	2.356
8/19/2004	1300	29.49	764	0	1.559	231.9	61.98	58.33	535	1.9259
8/19/2004	1400	30.53	764	0	2.294	218.1	39.36	52.9	740	2.6641
8/19/2004	1500	30.96	763	0	2.335	212.5	31.07	46.89	570	2.052
8/19/2004	1600	31.53	763	0	2.759	236.1	36.57	47.92	563.6	2.029
8/19/2004	1700	31.55	763	0	2.202	226.6	27.79	48.49	378.9	1.3639
8/19/2004	1800	30.42	762	0	1.765	235.7	20	58.9	157.5	0.56687
8/19/2004	1900	27.98	762	0	0.723	291.7	41.49	67.12	43.4	0.15623
8/19/2004	2000	26.14	762	0	0.556	342	28.61	76.9	2.029	0.00731
8/19/2004	2100	24.66	762	0	0.642	311.6	49.68	81.8	0.003	0.00001
8/19/2004	2200	23.55	763	0	0.651	285.2	26.11	86.1	0.048	0.00017
8/19/2004	2300	22.82	763	0	0.884	273.7	39.83	89.3	0.108	0.00039
8/19/2004	2400	23.04	764	0	1.523	253	13.31	86.1	0.115	0.00041
8/20/2004	100	23.32	764	0	1.631	244.4	14.48	85.5	0.095	0.00034
8/20/2004	200	22.97	764	0	1.201	245.9	13.97	89.5	0.102	0.00037
8/20/2004	300	21.84	763	0	1.047	249.2	9.24	92.1	0.108	0.00039
8/20/2004	400	21.19	763	0	0.789	259.1	25.17	93.6	0.12	0.00043
8/20/2004	500	20.73	763	0	0.631	279.7	39.28	93.3	0.107	0.00038
8/20/2004	600	20.45	763	0	0.381	287.5	18.44	93.7	1.513	0.00545
8/20/2004	700	20.85	763	0	0.566	309.2	37.83	91.1	38.96	0.14025
8/20/2004	800	22.15	763	0	0.683	235.1	22.78	88.4	129.1	0.46469
8/20/2004	900	23.58	764	0	1.916	233.5	19.32	74.2	286.5	1.0314
8/20/2004	1000	25.7	764	0	3.101	226.5	15.89	69.8	397.7	1.4316
8/20/2004	1100	26.55	764	0	2.984	215.1	20.18	66.29	343.9	1.2379
8/20/2004	1200	26.02	764	0	2.246	205.9	16.59	70.6	168	0.60467

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8/20/2004	1300	26.49	763	0	2.769	212.6	17.77	70.9	250	0.89992
8/20/2004	1400	26.17	763	0	2.909	229.5	19.64	71	268.8	0.96753
8/20/2004	1500	27.44	762	0	2.982	207.9	22.96	66.51	427.6	1.5395
8/20/2004	1600	27.75	761	0	2.646	206.1	21	68.71	283.9	1.0219
8/20/2004	1700	27.76	761	0	2.277	215.4	19.54	68.75	183.3	0.65994
8/20/2004	1800	26.53	761	0	1.367	208.9	9.69	78.8	26.06	0.09381
8/20/2004	1900	24.32	761	0.8	2.771	204.4	19.18	88.1	3.253	0.01171
8/20/2004	2000	22.12	761	0	2.593	208.5	15.5	87.6	0.56	0.00202
8/20/2004	2100	21.4	761	0.1	2.292	201.8	20.44	91.6	0.083	0.0003
8/20/2004	2200	21.3	761	0	1.765	212.5	18.63	93.2	0.103	0.00037
8/20/2004	2300	20.96	761	0	0.799	243.5	38.67	94	0.141	0.00051
8/20/2004	2400	20.71	761	0	1.218	228.7	33.88	94.4	0.158	0.00057
8/21/2004	100	21.03	761	0	2.051	222.3	17.01	92.4	0.163	0.00059
8/21/2004	200	21.32	761	0	2.711	207.4	16.37	91.7	0.169	0.00061
8/21/2004	300	21.43	760	0	2.949	206.3	15.28	93.5	0.164	0.00059
8/21/2004	400	21.23	760	0	3.023	207	15.36	94	0.132	0.00048
8/21/2004	500	21.36	760	0	3.277	207.8	17.58	92.7	0.167	0.0006
8/21/2004	600	21.67	760	0	3.008	212.9	16.01	91.4	0.36	0.0013
8/21/2004	700	21.74	760	0.1	2.931	211.1	21.13	93.7	8.43	0.03035
8/21/2004	800	21.7	761	1	2.587	249.6	35.59	94.8	39.58	0.14248
8/21/2004	900	22.2	761	0.2	2.879	220.3	17.81	92.4	167.1	0.6014
8/21/2004	1000	22.61	761	0	2.555	222.4	16.36	90.2	161.4	0.58106
8/21/2004	1100	23.8	761	0	3.247	233.3	15.63	83	318.9	1.1481
8/21/2004	1200	24.84	761	0	2.139	237.3	31.87	79.5	299.3	1.0774
8/21/2004	1300	23.83	761	5.5	2.636	274.5	48.82	93.7	166.9	0.60075
8/21/2004	1400	21.77	761	2.1	1.935	226.7	19.48	91.3	356.4	1.2832
8/21/2004	1500	24.43	761	0	2.323	225.4	22.17	82.2	511.9	1.8428
8/21/2004	1600	25.97	760	0	2.13	263.3	29.73	73.9	447.4	1.6107
8/21/2004	1700	26.42	760	0	1.87	293.1	36.02	68.95	290.5	1.0458
8/21/2004	1800	24.63	760	0	2.664	70.2	31.24	88.9	128.7	0.46345
8/21/2004	1900	22.78	760	0	1.43	43.85	21.32	91.4	26.92	0.09692
8/21/2004	2000	22.38	760	0	1.166	51.33	23.75	88.5	0.914	0.00329
8/21/2004	2100	21.7	761	0	1.506	48.17	21.18	85.9	0.037	0.00013
8/21/2004	2200	21.02	761	0	2.139	41.4	19.46	83.9	0.089	0.00032
8/21/2004	2300	20.63	762	0	2.315	30.99	15.21	83.8	0.073	0.00026
8/21/2004	2400	20.38	762	0	2.165	27.39	15.4	84.4	0.036	0.00013
8/22/2004	100	20.17	762	0	1.919	43.22	12.98	85.1	0.029	0.0001
8/22/2004	200	19.92	762	0	2.015	31.4	15.58	87	0.052	0.00019
8/22/2004	300	19.51	761	0	2.027	33.06	13.82	88.9	0.033	0.00012
8/22/2004	400	19.04	761	0	1.981	30.81	14.99	91	0.008	0.00003
8/22/2004	500	18.5	761	0	1.309	31.21	12.93	92	0.005	0.00002
8/22/2004	600	18.18	762	0	1.051	37.87	17.35	92.2	0.932	0.00336
8/22/2004	700	18.23	762	0	1.285	36.27	14.62	89.3	27.53	0.0991

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8/22/2004	800	19.05	762	0	1.945	33.24	17.8	84.7	104.1	0.37488
8/22/2004	900	20.43	763	0	1.794	36.93	20.7	81.6	227.5	0.81909
8/22/2004	1000	21.77	762	0	0.87	64.56	66.69	75.9	310.3	1.117
8/22/2004	1100	22.81	763	0	1.282	200.5	86.6	79.8	320.5	1.1538
8/22/2004	1200	23.69	763	0	1.817	247.4	30.49	72.2	476.8	1.7163
8/22/2004	1300	25.01	762	0	1.943	308.7	43.7	74.3	553.8	1.9938
8/22/2004	1400	25.85	762	0	2.004	288.1	42.43	72.7	648	2.3327
8/22/2004	1500	25.93	762	0	2.49	291.9	28.46	70.6	507.7	1.8276
8/22/2004	1600	25.51	761	0	2.16	303.7	28.69	69.99	295.3	1.063
8/22/2004	1700	25.58	761	0	1.356	321	27.89	70.5	207	0.74503
8/22/2004	1800	25.45	761	0	1.158	303.6	27.35	70.2	148.6	0.53503
8/22/2004	1900	25.16	761	0	0.962	315.7	26.09	79.2	81.6	0.29383
8/22/2004	2000	22.99	761	0	0.636	278.3	42.68	85.6	3.762	0.01354
8/22/2004	2100	21.9	761	0	0.56	294.5	33.41	90.4	0.067	0.00024
8/22/2004	2200	21.23	762	0	0.446	327.7	34.76	92.4	0.076	0.00028
8/22/2004	2300	20.67	761	0	0.68	11.49	21.87	94.2	0.025	0.00009
8/22/2004	2400	20.34	761	0	0.289	319	55.7	94.4	0.014	0.00005
8/23/2004	100	19.91	761	0	0.658	278.6	52.03	95.5	0.012	0.00004
8/23/2004	200	20	761	0	0.909	21.5	18.82	95	0.011	0.00004
8/23/2004	300	20.1	761	0	0.414	344.2	17.83	95.5	0.026	0.00009
8/23/2004	400	20.21	761	0	0.47	351.4	36.14	95.1	0.035	0.00013
8/23/2004	500	20.33	761	0	0.463	281	63.25	94.8	0.034	0.00012
8/23/2004	600	20.86	761	0	1.372	218.6	22.08	93.5	0.184	0.00066
8/23/2004	700	21.34	762	0	2.016	198.2	17.43	92.5	7.28	0.02621
8/23/2004	800	21.76	762	0	1.592	216	15.24	91.4	73.9	0.26594
8/23/2004	900	22.41	763	0	2.271	220.3	18.34	87.6	140.7	0.50639
8/23/2004	1000	23.62	763	0	2.214	228.1	24.03	81.8	314.9	1.1338
8/23/2004	1100	24.94	763	0	1.673	270.7	56.65	77.2	280.3	1.0091
8/23/2004	1200	26.15	763	0	1.062	215.6	70.3	71.3	434.8	1.5652
8/23/2004	1300	27.1	762	0	1.207	186.4	59.37	63.87	486	1.7498
8/23/2004	1400	27.27	762	0	1.798	208.8	53.81	67.51	348.8	1.2556
8/23/2004	1500	27.76	761	0	1.553	225.3	31.7	62.74	464.5	1.6722
8/23/2004	1600	27.91	761	0	1.91	271.5	25.1	60.07	405.6	1.4601
8/23/2004	1700	28.57	761	0	1.485	281.8	47.98	58.8	387.9	1.3966
8/23/2004	1800	28.34	761	0	0.967	255.5	54.89	67.31	169.6	0.61057
8/23/2004	1900	25.99	761	0	0.897	288.1	20.39	78.1	36.77	0.13238
8/23/2004	2000	23.92	761	0	0.711	280.6	15.78	84.8	0.494	0.00178
8/23/2004	2100	22.99	762	0	0.591	322.5	29.42	89.4	0.013	0.00005
8/23/2004	2200	22.29	762	0	0.596	346.4	31.41	91.4	0.021	0.00008
8/23/2004	2300	21.54	762	0	0.638	282.5	38.84	93.7	0.052	0.00019
8/23/2004	2400	21.15	762	0	0.432	313.4	32.2	94	0.07	0.00025
8/24/2004	100	20.77	762	0	0.604	327.4	74.6	94.7	0.064	0.00023
8/24/2004	200	20.52	762	0	0.445	354.8	57.24	94.8	0.053	0.00019

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/24/2004	300	20.22	762	0	0.625	10.93	27.94	95.3	0.049	0.00017
8/24/2004	400	19.91	762	0	0.408	319.9	45.62	95.8	0.046	0.00017
8/24/2004	500	19.54	762	0	0.49	277.2	58.86	96.5	0.026	0.0001
8/24/2004	600	19.42	763	0	0.924	34.87	26.52	96.8	1.205	0.00434
8/24/2004	700	20.05	763	0	0.606	355.6	24.03	95.7	54.56	0.1964
8/24/2004	800	21.2	764	0	0.937	23.41	50.85	92.5	110	0.39607
8/24/2004	900	22.83	764	0	0.666	231.8	25.18	82.5	266.9	0.96075
8/24/2004	1000	24.75	764	0	1.029	236.8	32.36	76.9	411.2	1.4805
8/24/2004	1100	25.51	764	0	1.536	223	28.87	72.5	311.4	1.121
8/24/2004	1200	25.55	764	0	2.141	269	52.64	75.9	303.4	1.0922
8/24/2004	1300	24.29	764	0	2.154	358	29.87	70.2	512.6	1.8453
8/24/2004	1400	25.6	763	0	1.206	263.8	74.7	75.7	256.2	0.92231
8/24/2004	1500	25.63	764	0	1.539	154.7	30.51	74.7	277.9	1.0003
8/24/2004	1600	26.25	763	0	2.464	95	32.3	65.91	473.4	1.7044
8/24/2004	1700	25.9	763	0	2.648	132.8	26.4	75.2	290.5	1.046
8/24/2004	1800	25.39	762	0	2.05	108.4	35.9	77.4	133.8	0.48156
8/24/2004	1900	24.95	763	0	1.298	98.6	37.28	81.5	59.39	0.21381
8/24/2004	2000	23.68	763	0	0.885	165.2	82.2	87.3	1.258	0.00453
8/24/2004	2100	22.5	763	0	0.795	257.4	33.6	91.6	0.018	0.00006
8/24/2004	2200	22.09	764	0	1.313	32.53	25.34	92.6	0.055	0.0002
8/24/2004	2300	21.62	764	0	0.81	9.4	45.77	91.1	0.054	0.00019
8/24/2004	2400	21.59	764	0	0.845	6.293	43.51	91.9	0.054	0.00019
8/25/2004	100	21.41	765	0	0.967	27.8	34.3	92.2	0.061	0.00022
8/25/2004	200	21.48	764	0	0.843	2.012	52.52	92.2	0.077	0.00028
8/25/2004	300	21.31	764	0	0.698	21.73	55.63	93.4	0.064	0.00023
8/25/2004	400	20.72	764	0	0.724	17.3	39.02	94.9	0.058	0.00021
8/25/2004	500	20.59	764	0	0.743	31.57	22.17	94.4	0.056	0.0002
8/25/2004	600	20.56	764	0	0.881	338.8	84	94.9	0.439	0.00158
8/25/2004	700	20.59	765	0	0.843	8.44	34.85	94.1	22.88	0.08238
8/25/2004	800	21.47	765	0	0.708	30.22	68.58	86.9	140.7	0.50648
8/25/2004	900	23.84	765	0	1.159	128.1	49.41	78.6	361.2	1.3003
8/25/2004	1000	24.83	765	0	1.873	175.2	36.45	75.5	362.5	1.3049
8/25/2004	1100	25.77	766	0	2.135	180.8	25.11	71.5	391.3	1.4086
8/25/2004	1200	25.96	766	0	1.545	208	33.42	71.3	378.6	1.363
8/25/2004	1300	27.95	765	0	2.142	174.3	50.51	59.77	742	2.6707
8/25/2004	1400	27.97	765	0	2.359	209	29.24	75.1	284.2	1.0231
8/25/2004	1500	24.26	765	0.6	2.868	243	21.44	88.7	90.9	0.32717
8/25/2004	1600	23.34	765	0.3	1.495	280.6	35.35	87.8	170.3	0.61319
8/25/2004	1700	24.54	764	0	0.896	351.6	45.45	80.2	233.5	0.84075
8/25/2004	1800	25.7	764	0	0.795	224	37.98	85.4	159.9	0.57567
8/25/2004	1900	24.59	764	0	0.646	132.2	77.9	87.5	24.24	0.08726
8/25/2004	2000	23.53	764	0	0.488	289.8	36.79	89.9	0.467	0.00168
8/25/2004	2100	22.91	764	0	0.786	280.6	27.54	93.3	0.036	0.00013



Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/25/2004	2200	22.15	764	0	0.619	305.1	48.89	94.6	0.085	0.00031
8/25/2004	2300	22	765	0	0.503	341.7	42.9	94.5	0.094	0.00034
8/25/2004	2400	21.46	765	0	0.714	251.2	29.25	96.1	0.107	0.00039
8/26/2004	100	21.01	765	0	0.902	264.9	30.28	96.7	0.107	0.00039
8/26/2004	200	20.83	765	0	0.44	6.014	43.94	96.1	0.098	0.00035
8/26/2004	300	20.47	765	0	0.367	308.4	28.02	96.5	0.098	0.00035
8/26/2004	400	20.34	764	0	0.557	352.3	46.98	96.3	0.072	0.00026
8/26/2004	500	20.35	765	0	0.419	350.1	32.16	96	0.072	0.00026
8/26/2004	600	20.16	765	0	0.449	330.7	33.36	95.9	0.82	0.00295
8/26/2004	700	20.37	765	0	0.655	2.913	29.66	95	26.17	0.09421
8/26/2004	800	21.52	766	0	0.582	317.7	74	87.6	89.1	0.32059
8/26/2004	900	22.61	766	0	1.277	226.8	12.32	83.5	119.9	0.43172
8/26/2004	1000	23.12	766	0	1.53	222.6	14.97	79.1	158.1	0.56912
8/26/2004	1100	23.91	766	0	2.247	232	19.37	74.9	249.6	0.89854
8/26/2004	1200	24.52	766	0	1.73	221.7	20.96	71	283.8	1.0215
8/26/2004	1300	25.32	766	0	1.703	229	22.84	69.4	325.9	1.1731
8/26/2004	1400	26.31	766	0	2.858	234.6	25.69	65.58	489.6	1.7624
8/26/2004	1500	27.2	765	0	2.566	225.7	24.52	61.77	565.7	2.0365
8/26/2004	1600	27.68	764	0	2.06	204.6	29.42	64.07	411.3	1.4807
8/26/2004	1700	27.48	764	0	1.639	200.9	23.07	64.61	266.6	0.95962
8/26/2004	1800	27.46	764	0	1.721	193.3	22.93	67.58	196.3	0.70655
8/26/2004	1900	26.15	764	0	1.313	178.8	24.06	75.8	31.19	0.11228
8/26/2004	2000	24.23	764	0	0.691	16.08	46.5	86.7	0.932	0.00335
8/26/2004	2100	23.05	764	0	0.808	4.988	25.32	89.4	0.005	0.00002
8/26/2004	2200	22.34	765	0	0.67	285.1	42.4	92.9	0.015	0.00005
8/26/2004	2300	21.7	765	0	0.868	325.5	68.77	92.3	0.049	0.00018
8/26/2004	2400	21.43	765	0	0.393	358.2	22.11	93.7	0.078	0.00028
8/27/2004	100	20.89	765	0	1.299	247.2	15.45	94.8	0.092	0.00033
8/27/2004	200	20.56	765	0	0.724	356.1	61.9	95	0.088	0.00032
8/27/2004	300	20.28	764	0	0.669	20.14	16.04	95.1	0.072	0.00026
8/27/2004	400	19.99	764	0	0.915	17	18.13	95.8	0.051	0.00018
8/27/2004	500	19.8	765	0	0.403	359.2	22.05	96	0.059	0.00021
8/27/2004	600	19.57	766	0	0.836	9.85	29.92	95.8	0.511	0.00184
8/27/2004	700	19.9	766	0	0.688	264.6	49.03	95.2	40.61	0.14619
8/27/2004	800	21.96	766	0	0.746	188.8	51.25	88.4	184.7	0.6648
8/27/2004	900	23.98	766	0	1.1	128.5	54.16	75.9	368.4	1.3261
8/27/2004	1000	25.36	766	0	1.639	248.7	29.96	72.1	509.2	1.8332
8/27/2004	1100	26.84	766	0	1.683	218	60.25	68.51	632.7	2.2779
8/27/2004	1200	28.19	766	0	1.881	233.9	48.46	61.44	698.2	2.5135
8/27/2004	1300	28.89	765	0	2.066	263.7	53.75	59.4	691	2.4876
8/27/2004	1400	29.34	765	0	1.781	271.7	49.79	63.47	592.4	2.1325
8/27/2004	1500	29.97	765	0	1.994	264.7	57.82	59.87	623.9	2.2459
8/27/2004	1600	30.68	764	0	1.126	232.1	48.03	58.94	494.4	1.7797

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/27/2004	1700	30.7	763	0	1.385	258.7	66.9	54.8	360.1	1.2964
8/27/2004	1800	30.56	763	0	0.986	309.7	36.43	60.24	184.9	0.66561
8/27/2004	1900	28.1	763	0	0.948	273.6	28.81	77.1	41.47	0.14931
8/27/2004	2000	25.71	763	0	0.668	284.9	21.99	83	0.446	0.00161
8/27/2004	2100	24.67	764	0	0.539	297.8	33.28	87.4	0.003	0.00001
8/27/2004	2200	23.94	764	0	0.83	16.58	20.01	88.7	0.026	0.00009
8/27/2004	2300	23.14	764	0	0.692	319.6	58.53	92.2	0.088	0.00032
8/27/2004	2400	22.36	763	0	0.544	280.7	38.84	93.8	0.11	0.0004
8/28/2004	100	22.07	763	0	0.544	0.819	53.09	93.6	0.11	0.0004
8/28/2004	200	21.7	763	0	0.575	17.48	27.79	94.7	0.135	0.00049
8/28/2004	300	21.22	763	0	1.041	21.52	18.78	95.1	0.126	0.00045
8/28/2004	400	20.89	763	0	0.584	15.71	29.82	95.7	0.129	0.00047
8/28/2004	500	20.53	763	0	0.524	268.8	29.39	95.7	0.117	0.00042
8/28/2004	600	20.38	763	0	0.475	281.9	35.45	95.9	0.503	0.00181
8/28/2004	700	20.72	763	0	0.674	276.2	42.05	94.6	39.39	0.14179
8/28/2004	800	22.87	763	0	0.508	309.9	78.4	86.2	182.7	0.65772
8/28/2004	900	24.85	763	0	0.814	210.2	93.9	79.8	354.1	1.2749
8/28/2004	1000	26.77	763	0	1.11	194.6	63.42	72.7	452.6	1.6294
8/28/2004	1100	28.06	763	0	1.229	249.3	41.31	70.1	574.5	2.0681
8/28/2004	1200	29.18	763	0	1.505	226.9	49.36	63.61	597.4	2.1507
8/28/2004	1300	29.72	762	0	1.94	229.4	55.63	57.87	571	2.0555
8/28/2004	1400	30.54	761	0	1.925	196	48.25	60.67	578.8	2.0835
8/28/2004	1500	30.99	761	0	2.016	197.5	36.85	57.3	496	1.7856
8/28/2004	1600	31.03	760	0	1.767	247	31.98	59.57	372.9	1.3426
8/28/2004	1700	30.2	759	0	1.804	276.6	28.01	65.44	246	0.88568
8/28/2004	1800	29.56	759	0	1.205	321.1	21.79	66.21	129.3	0.4653
8/28/2004	1900	27.52	758	0	0.905	294.1	35.17	80	21.59	0.07773
8/28/2004	2000	25.76	760	0	1.217	242.6	36.94	84.3	0.213	0.00077
8/28/2004	2100	25.1	760	0	0.743	329.1	58.24	82.3	0.006	0.00002
8/28/2004	2200	24.85	760	0	3.207	192.5	27.27	74.2	0.003	0.00001
8/28/2004	2300	22.61	761	1	3.843	203.3	22.16	91.8	0.004	0.00002
8/28/2004	2400	20.94	761	0.8	1.286	52.47	36.76	95.3	0.047	0.00017
8/29/2004	100	20.76	761	0.4	1.404	358.5	75.7	95.7	0.099	0.00036
8/29/2004	200	20.63	760	0	1.004	104.7	65.46	95	0.123	0.00044
8/29/2004	300	20.8	760	0	1.505	147.2	32.94	94.6	0.154	0.00056
8/29/2004	400	20.45	760	0.1	0.845	233.4	51.26	95.8	0.154	0.00056
8/29/2004	500	20.09	759	0	1.19	12.54	21.91	96.6	0.153	0.00055
8/29/2004	600	19.99	760	0	1.504	0.642	17.9	96.6	0.306	0.0011
8/29/2004	700	19.88	760	0	1.177	319.1	30.98	96.6	14.21	0.05117
8/29/2004	800	20.2	760	0	1.18	48.55	78.7	94.3	128.5	0.46242
8/29/2004	900	21.11	760	0	1.572	139.8	32.15	91.8	138.3	0.49782
8/29/2004	1000	22.17	761	0	1.556	154.1	35.55	84.1	404	1.4543
8/29/2004	1100	24.77	761	0	1.267	225.9	64.57	79	640.7	2.3064

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/29/2004	1200	26.14	761	0	1.462	229.3	66.62	76.1	496.5	1.7875
8/29/2004	1300	26.2	760	0	1.495	245.9	35.24	69.98	409.9	1.4758
8/29/2004	1400	27.98	760	0	1.521	299.4	57.41	54.76	717	2.5805
8/29/2004	1500	28.65	759	0	1.952	299	28.23	58.97	608.8	2.1917
8/29/2004	1600	28.84	759	0	1.823	278	32.94	57.73	471.3	1.6967
8/29/2004	1700	28.58	759	0	2.104	265.8	22.26	65.91	307.7	1.1077
8/29/2004	1800	27.76	759	0	1.791	289.8	34.83	68.65	138.9	0.4999
8/29/2004	1900	26.24	758	0	1.451	7.43	30.26	73.6	56.29	0.20266
8/29/2004	2000	24.25	759	0	0.955	6.716	28.96	80.7	0.404	0.00145
8/29/2004	2100	22.96	759	0	0.591	335.3	50.95	86.5	0.026	0.00009
8/29/2004	2200	22.46	760	0	0.709	357.4	22.91	88.9	0.101	0.00036
8/29/2004	2300	22.03	760	0	0.625	296.3	50.87	91.2	0.118	0.00042
8/29/2004	2400	21.69	760	0	0.544	352.1	62.12	91.9	0.121	0.00044
8/30/2004	100	21.41	760	0	0.616	10.15	32.99	93.4	0.135	0.00048
8/30/2004	200	20.96	760	0	0.675	25.76	29.05	94	0.135	0.00049
8/30/2004	300	20.75	760	0	0.705	21.77	18.67	95	0.124	0.00045
8/30/2004	400	20.47	760	0	0.659	1.415	25.16	95.9	0.142	0.00051
8/30/2004	500	20.21	760	0	0.674	355.7	26.97	96.4	0.1	0.00036
8/30/2004	600	20.07	760	0	0.748	16.02	15.44	96.8	0.249	0.0009
8/30/2004	700	20.36	760	0	0.505	344.7	50.31	96.7	34.19	0.12308
8/30/2004	800	21.74	761	0	0.612	301.1	61.41	86.5	178.4	0.6424
8/30/2004	900	24.6	761	0	1.013	1.538	46.75	79	354.5	1.2761
8/30/2004	1000	26.16	761	0	1.366	6.355	28.83	74.1	466.7	1.68
8/30/2004	1100	27.11	761	0	1.286	42.32	52.11	69.41	630.2	2.2689
8/30/2004	1200	27.65	761	0	1.612	330.2	55.73	61.34	457.3	1.6464
8/30/2004	1300	26.84	761	0	2.357	223.8	42.28	74.7	234.6	0.84463
8/30/2004	1400	27.42	761	0	1.727	222.9	28.27	67.55	374.5	1.3482
8/30/2004	1500	27.33	760	0	3.138	339.3	43.85	71.8	331.6	1.1938
8/30/2004	1600	26.57	761	0	3.307	16.86	23.43	68.61	500.4	1.8014
8/30/2004	1700	26.65	761	0	3.019	27.83	20.06	71	312.1	1.1234
8/30/2004	1800	26.01	761	0	2.423	35.65	17.8	73.2	146.3	0.52685
8/30/2004	1900	25.16	761	0	1.719	39.43	23.6	80.1	24.91	0.08969
8/30/2004	2000	24.02	761	0	0.901	26.01	45.48	84.4	0.719	0.00259
8/30/2004	2100	23.15	762	0	0.698	16.68	54.15	86.4	0.047	0.00017
8/30/2004	2200	22.39	763	0	0.677	352.5	36.05	90.2	0.121	0.00044
8/30/2004	2300	22.45	763	0	0.974	16.95	27.79	87.2	0.154	0.00056
8/30/2004	2400	22.34	763	0	1.248	12.12	22.2	83.5	0.154	0.00055
8/31/2004	100	22.57	763	0	2.666	40.09	11.95	83.6	0.165	0.00059
8/31/2004	200	22.35	763	0	2.626	35.69	11.61	85.5	0.146	0.00053
8/31/2004	300	21.76	763	0	1.735	45.91	15.37	87.9	0.16	0.00058
8/31/2004	400	21.29	763	0	1.357	28.33	16.86	89.2	0.149	0.00054
8/31/2004	500	21	763	0	1.789	36.68	15.65	89.2	0.124	0.00045
8/31/2004	600	21.12	763	0	2.048	31.2	13.04	89	0.359	0.00129

Date	TIME	TEMP °C	Bar Pressure mmHg	Rainfall in	Wind Speed m/s	Wind Direction degrees	Sigma Theta	Relative Humidity %	Watts/m <sup>2</sup>	mJ
8/31/2004	700	21.06	763	0	1.66	39.95	14.88	87.2	46	0.16562
8/31/2004	800	22.1	764	0	2.833	41.35	12.38	81.7	169.8	0.61137
8/31/2004	900	23.38	764	0	3.597	41.69	13.93	79.8	301.8	1.0865
8/31/2004	1000	24.15	764	0	3.314	34.82	15.88	76.9	284.6	1.0246
8/31/2004	1100	25.17	764	0	3.153	34.53	17.98	71.1	367.6	1.3233
8/31/2004	1200	25.97	764	0	3.047	44.32	25.23	68.82	413.4	1.4883
8/31/2004	1300	26.51	764	0	2.741	37.44	26.42	71.2	353.7	1.2733
8/31/2004	1400	27.62	764	0	2.514	13.86	32.76	65.31	640.4	2.3053
8/31/2004	1500	28.12	764	0	3.058	15.59	33.15	62.77	522.2	1.8799
8/31/2004	1600	28.58	763	0	3.225	16.52	20.8	57.5	504.3	1.8155
8/31/2004	1700	28.34	763	0	3.433	28.83	19.1	59.6	352.5	1.2688
8/31/2004	1800	27.42	763	0	3.411	28.45	15.59	63.58	182.1	0.6554
8/31/2004	1900	25.81	763	0	2.634	30.39	15.13	68.43	37.6	0.13537
8/31/2004	2000	24.56	764	0	2.535	40.44	14.25	70.1	0.375	0.00135
8/31/2004	2100	23.77	764	0	2.368	42.82	16.6	72.5	0.03	0.00011
8/31/2004	2200	23.12	765	0	1.872	41.12	18.8	76	0.078	0.00028
8/31/2004	2300	22.41	765	0	2.142	31.09	15.51	78.7	0.121	0.00043
8/31/2004	2400	21.94	765	0	2.448	30.17	13.67	79.8	0.163	0.00059

## A-4 Lateral Turbulence Criteria for Initial Estimate of Pasquill-Gifford (P-G) Stability Category.

Initial estimate of P-G Stability Category	Standard Deviation of Wind Azimuth Angle $\sigma_A$
A	$22.5 < \sigma_A$
B	$17.5 \leq \sigma_A \leq 22.5$
C	$12.5 \leq \sigma_A \leq 17.5$
D	$7.5 \leq \sigma_A \leq 12.5$
E	$3.8 \leq \sigma_A \leq 7.5$
F	$\sigma_A < 3.8$

## A-5 Wind Speed Adjustment for Determining Final Estimate of P-G Stability Category from $\sigma_A$ .

Initial Estimate of P-G Category	10-meter Wind Speed (m/s)	Final Estimate of P-G Category
Daytime		
A	$u < 3$	A
A	$3 \leq u < 4$	B
A	$4 \leq u < 6$	C
A	$6 \leq u$	D
B	$u < 4$	B
B	$4 \leq u < 6$	C
B	$6 \leq u$	D
C	$u < 6$	C
C	$6 \leq u$	D
D, E, or F	ANY	D
Nighttime		
A	$u < 2.9$	F
A	$2.9 \leq u < 3.6$	E
A	$3.6 \leq u$	D
B	$u < 2.4$	F
B	$2.4 \leq u < 3.0$	E
B	$3.0 \leq u$	D
C	$u < 2.4$	E
C	$2.4 \leq u$	D
D	ANY	D
E	$u < 5$	E
E	$5 \leq u$	D
E		
F	$u < 3$	F
F	$3 \leq u < 5$	E
F	$5 \leq u$	D

## A-6 Example ISCST3 Input File

CO STARTING

TITLEONE NOx Annual average values with modified met file (WS less than 1.5m/s was set to 1.5m/s)

MODELOPT DFAULT CONC RURAL

AVERTIME 1 24 Month Annual

POLLUTID NOx

TERRHGTS ELEV

RUNORNOT RUN

ERRORFIL ERROR01.OUT

CO FINISHED

SO STARTING

\*\* Locations SourceID SourceType X Y Z

\*\* Petro Truck Stop

\*\* High End South

LOCATION P1 VOLUME 1036 164 0.0

LOCATION P2 VOLUME 1073 184 0.0

LOCATION P3 VOLUME 1110 203 0.0

\*\* High End North

LOCATION P4 VOLUME 996 197 0.0

LOCATION P5 VOLUME 1038 219 0.0

LOCATION P6 VOLUME 1079 241 0.0

\*\* Low End South

LOCATION P7 VOLUME 1140 245 0.0

LOCATION P8 VOLUME 1155 284 0.0

LOCATION P9 VOLUME 1171 323 0.0

LOCATION P10 VOLUME 1187 362 0.0

LOCATION P11 VOLUME 1202 401 0.0

\*\* Low End North

LOCATION P12 VOLUME 1101 293 0.0

LOCATION P13 VOLUME 1118 332 0.0

LOCATION P14 VOLUME 1136 371 0.0

LOCATION P15 VOLUME 1153 410 0.0

LOCATION P16 VOLUME 1170 449 0.0

\*\* West of Fueling Island

LOCATION P17 VOLUME 1061 293 0.0

LOCATION P18 VOLUME 1053 310 0.0

LOCATION P19 VOLUME 1045 327 0.0

LOCATION P20 VOLUME 1038 344 0.0

LOCATION P21 VOLUME 1030 361 0.0

\*\* Fueling Island

LOCATION P22 VOLUME 1084 383 0.0

LOCATION P23 VOLUME 1089 400 0.0

LOCATION P24 VOLUME 1095 417 0.0

LOCATION P25 VOLUME 1100 434 0.0

LOCATION P26 VOLUME 1105 451 0.0

\*\* Perimeter

LOCATION P27 VOLUME 954 181 0.0

LOCATION P28 VOLUME 957 178 0.0

LOCATION P29 VOLUME 960 176 0.0

LOCATION P30 VOLUME 963 174 0.0

LOCATION P31 VOLUME 965 172 0.0

LOCATION	P32	VOLUME	968	170	0.0
LOCATION	P33	VOLUME	971	167	0.0
LOCATION	P34	VOLUME	974	165	0.0
LOCATION	P35	VOLUME	977	163	0.0
LOCATION	P36	VOLUME	980	161	0.0
LOCATION	P37	VOLUME	983	159	0.0
LOCATION	P38	VOLUME	985	156	0.0
LOCATION	P39	VOLUME	988	154	0.0
LOCATION	P40	VOLUME	991	152	0.0
LOCATION	P41	VOLUME	994	150	0.0
LOCATION	P42	VOLUME	997	148	0.0
LOCATION	P43	VOLUME	1000	145	0.0
LOCATION	P44	VOLUME	1003	143	0.0
LOCATION	P45	VOLUME	1005	141	0.0
LOCATION	P46	VOLUME	1008	139	0.0
LOCATION	P47	VOLUME	1011	137	0.0
LOCATION	P48	VOLUME	1014	134	0.0
LOCATION	P49	VOLUME	1017	132	0.0
LOCATION	P50	VOLUME	1020	130	0.0
LOCATION	P51	VOLUME	1023	128	0.0
LOCATION	P52	VOLUME	1026	110	0.0
LOCATION	P53	VOLUME	1030	111	0.0
LOCATION	P54	VOLUME	1034	111	0.0
LOCATION	P55	VOLUME	1038	112	0.0
LOCATION	P56	VOLUME	1042	112	0.0
LOCATION	P57	VOLUME	1046	113	0.0
LOCATION	P58	VOLUME	1050	113	0.0
LOCATION	P59	VOLUME	1054	114	0.0
LOCATION	P60	VOLUME	1058	114	0.0
LOCATION	P61	VOLUME	1062	115	0.0
LOCATION	P62	VOLUME	1066	115	0.0
LOCATION	P63	VOLUME	1070	116	0.0
LOCATION	P64	VOLUME	1074	116	0.0
LOCATION	P65	VOLUME	1078	117	0.0
LOCATION	P66	VOLUME	1082	117	0.0
LOCATION	P67	VOLUME	1086	118	0.0
LOCATION	P68	VOLUME	1090	118	0.0
LOCATION	P69	VOLUME	1094	119	0.0
LOCATION	P70	VOLUME	1098	119	0.0
LOCATION	P71	VOLUME	1102	120	0.0
LOCATION	P72	VOLUME	1106	120	0.0
LOCATION	P73	VOLUME	1110	121	0.0
LOCATION	P74	VOLUME	1114	121	0.0
LOCATION	P75	VOLUME	1118	122	0.0
LOCATION	P76	VOLUME	1122	122	0.0
LOCATION	P77	VOLUME	1126	123	0.0
LOCATION	P78	VOLUME	1130	123	0.0
LOCATION	P79	VOLUME	1134	124	0.0
LOCATION	P80	VOLUME	1138	124	0.0
LOCATION	P81	VOLUME	1142	125	0.0
LOCATION	P82	VOLUME	1146	125	0.0
LOCATION	P83	VOLUME	1150	126	0.0
LOCATION	P84	VOLUME	1154	126	0.0
LOCATION	P85	VOLUME	1157	129	0.0



LOCATION	P86	VOLUME	1158	132	0.0
LOCATION	P87	VOLUME	1159	136	0.0
LOCATION	P88	VOLUME	1160	140	0.0
LOCATION	P89	VOLUME	1161	144	0.0
LOCATION	P90	VOLUME	1162	148	0.0
LOCATION	P91	VOLUME	1163	151	0.0
LOCATION	P92	VOLUME	1164	155	0.0
LOCATION	P93	VOLUME	1165	159	0.0
LOCATION	P94	VOLUME	1166	163	0.0
LOCATION	P95	VOLUME	1168	167	0.0
LOCATION	P96	VOLUME	1169	170	0.0
LOCATION	P97	VOLUME	1170	174	0.0
LOCATION	P98	VOLUME	1171	178	0.0
LOCATION	P99	VOLUME	1172	182	0.0
LOCATION	P100	VOLUME	1173	186	0.0
LOCATION	P101	VOLUME	1174	189	0.0
LOCATION	P102	VOLUME	1175	193	0.0
LOCATION	P103	VOLUME	1176	197	0.0
LOCATION	P104	VOLUME	1177	201	0.0
LOCATION	P105	VOLUME	1179	205	0.0
LOCATION	P106	VOLUME	1180	208	0.0
LOCATION	P107	VOLUME	1181	212	0.0
LOCATION	P108	VOLUME	1182	216	0.0
LOCATION	P109	VOLUME	1183	220	0.0
LOCATION	P110	VOLUME	1184	224	0.0
LOCATION	P111	VOLUME	1185	227	0.0
LOCATION	P112	VOLUME	1186	231	0.0
LOCATION	P113	VOLUME	1187	235	0.0
LOCATION	P114	VOLUME	1188	239	0.0
LOCATION	P115	VOLUME	1190	243	0.0
LOCATION	P116	VOLUME	1191	246	0.0
LOCATION	P117	VOLUME	1192	250	0.0
LOCATION	P118	VOLUME	1193	254	0.0
LOCATION	P119	VOLUME	1194	258	0.0
LOCATION	P120	VOLUME	1195	262	0.0
LOCATION	P121	VOLUME	1196	265	0.0
LOCATION	P122	VOLUME	1197	269	0.0
LOCATION	P123	VOLUME	1198	273	0.0
LOCATION	P124	VOLUME	1199	277	0.0
LOCATION	P125	VOLUME	1201	281	0.0
LOCATION	P126	VOLUME	1202	284	0.0
LOCATION	P127	VOLUME	1203	288	0.0
LOCATION	P128	VOLUME	1204	292	0.0
LOCATION	P129	VOLUME	1205	296	0.0
LOCATION	P130	VOLUME	1206	300	0.0
LOCATION	P131	VOLUME	1207	303	0.0
LOCATION	P132	VOLUME	1208	307	0.0
LOCATION	P133	VOLUME	1209	311	0.0
LOCATION	P134	VOLUME	1210	315	0.0
LOCATION	P135	VOLUME	1212	319	0.0
LOCATION	P136	VOLUME	1213	322	0.0
LOCATION	P137	VOLUME	1214	326	0.0
LOCATION	P138	VOLUME	1215	330	0.0
LOCATION	P139	VOLUME	1216	334	0.0

LOCATION	P140	VOLUME	1217	338	0.0
LOCATION	P141	VOLUME	1218	341	0.0
LOCATION	P142	VOLUME	1219	345	0.0
LOCATION	P143	VOLUME	1220	349	0.0
LOCATION	P144	VOLUME	1221	353	0.0
LOCATION	P145	VOLUME	1223	357	0.0
LOCATION	P146	VOLUME	1224	360	0.0
LOCATION	P147	VOLUME	1225	364	0.0
LOCATION	P148	VOLUME	1226	368	0.0
LOCATION	P149	VOLUME	1227	372	0.0
LOCATION	P150	VOLUME	1228	376	0.0
LOCATION	P151	VOLUME	1229	379	0.0
LOCATION	P152	VOLUME	1230	383	0.0
LOCATION	P153	VOLUME	1231	387	0.0
LOCATION	P154	VOLUME	1232	391	0.0
LOCATION	P155	VOLUME	1234	395	0.0
LOCATION	P156	VOLUME	1235	398	0.0
LOCATION	P157	VOLUME	1236	402	0.0
LOCATION	P158	VOLUME	1237	406	0.0
LOCATION	P159	VOLUME	1238	410	0.0
** Truck Wash					
LOCATION	P160	VOLUME	1147	502	0.0
LOCATION	P161	VOLUME	1149	505	0.0
LOCATION	P162	VOLUME	1152	508	0.0
LOCATION	P163	VOLUME	1155	510	0.0
LOCATION	P164	VOLUME	1158	513	0.0
LOCATION	P165	VOLUME	1161	515	0.0
LOCATION	P166	VOLUME	1164	518	0.0
LOCATION	P167	VOLUME	1167	521	0.0
LOCATION	P168	VOLUME	1170	523	0.0
LOCATION	P169	VOLUME	1173	526	0.0
LOCATION	P170	VOLUME	1176	528	0.0
LOCATION	P171	VOLUME	1178	531	0.0
LOCATION	P172	VOLUME	1181	534	0.0
LOCATION	P173	VOLUME	1184	536	0.0
LOCATION	P174	VOLUME	1187	539	0.0
LOCATION	P175	VOLUME	1191	539	0.0
LOCATION	P176	VOLUME	1194	537	0.0
LOCATION	P177	VOLUME	1198	535	0.0
LOCATION	P178	VOLUME	1202	533	0.0
LOCATION	P179	VOLUME	1205	532	0.0
LOCATION	P180	VOLUME	1209	530	0.0
LOCATION	P181	VOLUME	1212	528	0.0
LOCATION	P182	VOLUME	1216	526	0.0
LOCATION	P183	VOLUME	1220	524	0.0
LOCATION	P184	VOLUME	1223	523	0.0
LOCATION	P185	VOLUME	1227	521	0.0
LOCATION	P186	VOLUME	1230	519	0.0
** A(I-40)Locations					
LOCATION	I1	VOLUME	6.17	80.81	0.0
LOCATION	I2	VOLUME	18.5	88.43	0.0
LOCATION	I3	VOLUME	30.8	96.05	0.0
LOCATION	I4	VOLUME	43.19	103.67	0.0

LOCATION I5	VOLUME	55.5	111.29	0.0
LOCATION I6	VOLUME	67.87	118.91	0.0
LOCATION I7	VOLUME	80.2	126.53	0.0
LOCATION I8	VOLUME	92.55	134.15	0.0
LOCATION I9	VOLUME	185.10	141.77	0.0
LOCATION I10	VOLUME	104.89	149.39	0.0
LOCATION I11	VOLUME	117.23	157.01	0.0
LOCATION I12	VOLUME	129.57	164.63	0.0
LOCATION I13	VOLUME	141.91	172.25	0.0
LOCATION I14	VOLUME	154.25	179.87	0.0
LOCATION I15	VOLUME	166.59	187.49	0.0
LOCATION I16	VOLUME	178.93	195.11	0.0
LOCATION I17	VOLUME	191.27	202.73	0.0
LOCATION I18	VOLUME	203.61	210.35	0.0
LOCATION I19	VOLUME	215.95	217.97	0.0
LOCATION I20	VOLUME	228.29	225.59	0.0
LOCATION I21	VOLUME	240.63	233.21	0.0
LOCATION I22	VOLUME	252.97	240.83	0.0
LOCATION I23	VOLUME	265.31	248.45	0.0
LOCATION I24	VOLUME	277.65	256.07	0.0
LOCATION I25	VOLUME	289.99	263.69	0.0
LOCATION I26	VOLUME	302.33	271.31	0.0
LOCATION I27	VOLUME	314.67	278.93	0.0
LOCATION I28	VOLUME	327.01	286.55	0.0
LOCATION I29	VOLUME	339.35	294.17	0.0
LOCATION I30	VOLUME	351.69	301.79	0.0
LOCATION I31	VOLUME	364.03	309.41	0.0
LOCATION I32	VOLUME	376.37	317.03	0.0
LOCATION I33	VOLUME	388.71	324.65	0.0
LOCATION I34	VOLUME	401.05	332.27	0.0
LOCATION I35	VOLUME	413.39	339.89	0.0
LOCATION I36	VOLUME	425.73	347.51	0.0
LOCATION I37	VOLUME	438.07	355.13	0.0
LOCATION I38	VOLUME	450.41	362.75	0.0
LOCATION I39	VOLUME	462.75	370.37	0.0
LOCATION I40	VOLUME	475.09	377.99	0.0
LOCATION I41	VOLUME	487.43	385.61	0.0
LOCATION I42	VOLUME	499.77	393.23	0.0
LOCATION I43	VOLUME	512.11	400.85	0.0
LOCATION I44	VOLUME	524.45	408.47	0.0
LOCATION I45	VOLUME	536.79	416.09	0.0
LOCATION I46	VOLUME	549.13	423.71	0.0
LOCATION I47	VOLUME	561.47	431.33	0.0
LOCATION I48	VOLUME	573.81	438.95	0.0
LOCATION I49	VOLUME	586.15	446.57	0.0
LOCATION I50	VOLUME	598.49	454.19	0.0
LOCATION I51	VOLUME	610.83	461.81	0.0
LOCATION I52	VOLUME	623.17	469.43	0.0
LOCATION I53	VOLUME	635.51	477.05	0.0
LOCATION I54	VOLUME	647.85	484.67	0.0
LOCATION I55	VOLUME	660.19	492.29	0.0
LOCATION I56	VOLUME	672.53	499.91	0.0
LOCATION I57	VOLUME	684.87	507.53	0.0
LOCATION I58	VOLUME	697.21	515.15	0.0

LOCATION I59	VOLUME	709.55	522.77	0.0
LOCATION I60	VOLUME	721.89	530.39	0.0
LOCATION I61	VOLUME	734.23	538.01	0.0
LOCATION I62	VOLUME	746.56	545.63	0.0
LOCATION I63	VOLUME	758.91	553.25	0.0
LOCATION I64	VOLUME	771.25	560.87	0.0
LOCATION I65	VOLUME	783.59	568.49	0.0
LOCATION I66	VOLUME	795.93	576.11	0.0
LOCATION I67	VOLUME	808.27	583.73	0.0
LOCATION I68	VOLUME	820.61	591.35	0.0
LOCATION I69	VOLUME	832.95	598.97	0.0
LOCATION I70	VOLUME	845.29	606.59	0.0
LOCATION I71	VOLUME	857.63	614.21	0.0
LOCATION I72	VOLUME	869.97	621.83	0.0
LOCATION I73	VOLUME	882.31	629.45	0.0
LOCATION I74	VOLUME	894.65	637.07	0.0
LOCATION I75	VOLUME	906.99	644.69	0.0
LOCATION I76	VOLUME	919.33	652.31	0.0
LOCATION I77	VOLUME	931.67	659.93	0.0
LOCATION I78	VOLUME	944.01	667.55	0.0
LOCATION I79	VOLUME	956.35	675.17	0.0
LOCATION I80	VOLUME	968.69	682.79	0.0
LOCATION I81	VOLUME	981.03	690.41	0.0
LOCATION I82	VOLUME	993.37	698.03	0.0
LOCATION I83	VOLUME	1005.7	705.65	0.0
LOCATION I84	VOLUME	1018.05	713.27	0.0
LOCATION I85	VOLUME	1030.39	720.89	0.0
LOCATION I86	VOLUME	1042.73	728.51	0.0
LOCATION I87	VOLUME	1055.07	736.13	0.0
LOCATION I88	VOLUME	1067.41	743.75	0.0
LOCATION I89	VOLUME	1079.75	751.37	0.0
LOCATION I90	VOLUME	1092.09	758.99	0.0
LOCATION I91	VOLUME	1104.43	766.61	0.0
LOCATION I92	VOLUME	1116.77	774.23	0.0
LOCATION I93	VOLUME	1129.11	781.85	0.0
LOCATION I94	VOLUME	1141.45	789.47	0.0
LOCATION I95	VOLUME	1153.79	797.09	0.0
LOCATION I96	VOLUME	1166.13	804.71	0.0
LOCATION I97	VOLUME	1178.47	812.33	0.0
LOCATION I98	VOLUME	1190.81	819.95	0.0
LOCATION I99	VOLUME	1203.15	827.57	0.0
LOCATION I100	VOLUME	1215.49	835.19	0.0
LOCATION I101	VOLUME	1227.83	842.81	0.0
LOCATION I102	VOLUME	1240.17	850.43	0.0
LOCATION I103	VOLUME	1252.51	858.05	0.0
LOCATION I104	VOLUME	1264.85	865.67	0.0
LOCATION I105	VOLUME	1277.19	873.29	0.0
LOCATION I106	VOLUME	1289.53	880.91	0.0
LOCATION I107	VOLUME	1301.87	888.53	0.0
LOCATION I108	VOLUME	1314.21	896.15	0.0
LOCATION I109	VOLUME	1326.55	903.77	0.0
LOCATION I110	VOLUME	1338.89	911.39	0.0
LOCATION I111	VOLUME	1351.23	919.01	0.0
LOCATION I112	VOLUME	1363.57	926.63	0.0

LOCATION	I113	VOLUME	1375.91	934.25	0.0
LOCATION	I114	VOLUME	1388.25	941.87	0.0
LOCATION	I115	VOLUME	1400.59	949.49	0.0
LOCATION	I116	VOLUME	1412.93	957.11	0.0
LOCATION	I117	VOLUME	1425.27	964.73	0.0
LOCATION	I118	VOLUME	1437.61	972.35	0.0
LOCATION	I119	VOLUME	1449.95	979.97	0.0
LOCATION	I120	VOLUME	1462.29	987.59	0.0
LOCATION	I121	VOLUME	1474.63	995.21	0.0
LOCATION	I122	VOLUME	1486.97	1002.83	0.0
LOCATION	I123	VOLUME	1499.31	1010.45	0.0
LOCATION	I124	VOLUME	1511.65	1018.07	0.0
LOCATION	I125	VOLUME	1523.99	1025.69	0.0
LOCATION	I126	VOLUME	1536.33	1033.31	0.0
LOCATION	I127	VOLUME	1548.67	1040.93	0.0
LOCATION	I128	VOLUME	1561.01	1048.55	0.0
LOCATION	I129	VOLUME	1573.35	1056.17	0.0
LOCATION	I130	VOLUME	1585.69	1063.79	0.0
LOCATION	I131	VOLUME	1598.03	1071.41	0.0
LOCATION	I132	VOLUME	1610.37	1079.03	0.0
LOCATION	I133	VOLUME	1622.71	1086.65	0.0
LOCATION	I134	VOLUME	1635.05	1094.27	0.0
LOCATION	I135	VOLUME	1647.39	1101.89	0.0
LOCATION	I136	VOLUME	1659.73	1109.51	0.0
LOCATION	I137	VOLUME	1672.07	1117.13	0.0
LOCATION	I138	VOLUME	1684.41	1124.75	0.0
LOCATION	I139	VOLUME	1696.75	1132.37	0.0
LOCATION	I140	VOLUME	1709.09	1139.99	0.0
LOCATION	I141	VOLUME	1721.43	1147.61	0.0
LOCATION	I142	VOLUME	1733.77	1155.23	0.0
LOCATION	I143	VOLUME	1746.11	1162.85	0.0
LOCATION	I144	VOLUME	1758.45	1170.47	0.0
LOCATION	I145	VOLUME	1770.79	1178.09	0.0
LOCATION	I146	VOLUME	1783.13	1185.71	0.0
LOCATION	I147	VOLUME	1795.47	1193.33	0.0
LOCATION	I148	VOLUME	1807.81	1200.95	0.0
LOCATION	I149	VOLUME	1820.15	1208.57	0.0
LOCATION	I150	VOLUME	1832.49	1216.19	0.0
LOCATION	I151	VOLUME	1844.83	1223.81	0.0
LOCATION	I152	VOLUME	1857.17	1231.43	0.0
LOCATION	I153	VOLUME	1869.51	1239.05	0.0
LOCATION	I154	VOLUME	1881.85	1246.67	0.0
LOCATION	I155	VOLUME	1894.19	1254.29	0.0

\*\* Watt Road Location

LOCATION	W1	VOLUME	662	1274	0.0
LOCATION	W2	VOLUME	666	1270	0.0
LOCATION	W3	VOLUME	670	1266	0.0
LOCATION	W4	VOLUME	674	1262	0.0
LOCATION	W5	VOLUME	678	1258	0.0
LOCATION	W6	VOLUME	682	1255	0.0
LOCATION	W7	VOLUME	686	1251	0.0
LOCATION	W8	VOLUME	690	1247	0.0
LOCATION	W9	VOLUME	694	1243	0.0

LOCATION	W10	VOLUME	698	1239	0.0
LOCATION	W11	VOLUME	702	1235	0.0
LOCATION	W12	VOLUME	706	1231	0.0
LOCATION	W13	VOLUME	711	1227	0.0
LOCATION	W14	VOLUME	715	1224	0.0
LOCATION	W15	VOLUME	719	1220	0.0
LOCATION	W16	VOLUME	723	1216	0.0
LOCATION	W17	VOLUME	727	1212	0.0
LOCATION	W18	VOLUME	731	1208	0.0
LOCATION	W19	VOLUME	735	1204	0.0
LOCATION	W20	VOLUME	739	1200	0.0
LOCATION	W21	VOLUME	743	1196	0.0
LOCATION	W22	VOLUME	747	1193	0.0
LOCATION	W23	VOLUME	751	1189	0.0
LOCATION	W24	VOLUME	755	1185	0.0
LOCATION	W25	VOLUME	759	1181	0.0
LOCATION	W26	VOLUME	763	1177	0.0
LOCATION	W27	VOLUME	767	1173	0.0
LOCATION	W28	VOLUME	771	1169	0.0
LOCATION	W29	VOLUME	775	1165	0.0
LOCATION	W30	VOLUME	779	1161	0.0
LOCATION	W31	VOLUME	783	1158	0.0
LOCATION	W32	VOLUME	787	1154	0.0
LOCATION	W33	VOLUME	791	1150	0.0
LOCATION	W34	VOLUME	795	1146	0.0
LOCATION	W35	VOLUME	799	1142	0.0
LOCATION	W36	VOLUME	803	1138	0.0
LOCATION	W37	VOLUME	807	1134	0.0
LOCATION	W38	VOLUME	811	1130	0.0
LOCATION	W39	VOLUME	816	1127	0.0
LOCATION	W40	VOLUME	820	1123	0.0
LOCATION	W41	VOLUME	824	1119	0.0
LOCATION	W42	VOLUME	828	1115	0.0
LOCATION	W43	VOLUME	832	1111	0.0
LOCATION	W44	VOLUME	836	1107	0.0
LOCATION	W45	VOLUME	840	1103	0.0
LOCATION	W46	VOLUME	844	1099	0.0
LOCATION	W47	VOLUME	848	1096	0.0
LOCATION	W48	VOLUME	852	1092	0.0
LOCATION	W49	VOLUME	856	1088	0.0
LOCATION	W50	VOLUME	860	1084	0.0
LOCATION	W51	VOLUME	862.1	1079.3	0.0
LOCATION	W52	VOLUME	862.2	1073.8	0.0
LOCATION	W53	VOLUME	862.3	1068.3	0.0
LOCATION	W54	VOLUME	862.5	1062.9	0.0
LOCATION	W55	VOLUME	862.6	1057.4	0.0
LOCATION	W56	VOLUME	862.8	1051.9	0.0
LOCATION	W57	VOLUME	862.9	1046.5	0.0
LOCATION	W58	VOLUME	863.0	1041.0	0.0
LOCATION	W59	VOLUME	863.2	1035.5	0.0
LOCATION	W60	VOLUME	863.3	1030.0	0.0
LOCATION	W61	VOLUME	863.4	1024.6	0.0
LOCATION	W62	VOLUME	863.6	1019.1	0.0
LOCATION	W63	VOLUME	863.7	1013.6	0.0

LOCATION	W64	VOLUME	863.8	1008.2	0.0
LOCATION	W65	VOLUME	864.0	1002.7	0.0
LOCATION	W66	VOLUME	864.1	997.2	0.0
LOCATION	W67	VOLUME	864.2	991.8	0.0
LOCATION	W68	VOLUME	864.4	986.3	0.0
LOCATION	W69	VOLUME	864.5	980.8	0.0
LOCATION	W70	VOLUME	864.7	975.3	0.0
LOCATION	W71	VOLUME	864.8	969.9	0.0
LOCATION	W72	VOLUME	864.9	964.4	0.0
LOCATION	W73	VOLUME	865.1	958.9	0.0
LOCATION	W74	VOLUME	865.2	953.5	0.0
LOCATION	W75	VOLUME	865.3	948.0	0.0
LOCATION	W76	VOLUME	865.5	942.5	0.0
LOCATION	W77	VOLUME	865.6	937.0	0.0
LOCATION	W78	VOLUME	865.7	931.6	0.0
LOCATION	W79	VOLUME	865.9	926.1	0.0
LOCATION	W80	VOLUME	866.0	920.6	0.0
LOCATION	W81	VOLUME	866.1	915.2	0.0
LOCATION	W82	VOLUME	866.3	909.7	0.0
LOCATION	W83	VOLUME	866.4	904.2	0.0
LOCATION	W84	VOLUME	866.6	898.8	0.0
LOCATION	W85	VOLUME	866.7	893.3	0.0
LOCATION	W86	VOLUME	866.8	887.8	0.0
LOCATION	W87	VOLUME	867.0	882.3	0.0
LOCATION	W88	VOLUME	867.1	876.9	0.0
LOCATION	W89	VOLUME	867.2	871.4	0.0
LOCATION	W90	VOLUME	867.4	865.9	0.0
LOCATION	W91	VOLUME	867.5	860.5	0.0
LOCATION	W92	VOLUME	867.6	855.0	0.0
LOCATION	W93	VOLUME	867.8	849.5	0.0
LOCATION	W94	VOLUME	867.9	844.1	0.0
LOCATION	W95	VOLUME	868.1	838.6	0.0
LOCATION	W96	VOLUME	868.2	833.1	0.0
LOCATION	W97	VOLUME	868.3	827.6	0.0
LOCATION	W98	VOLUME	868.5	822.2	0.0
LOCATION	W99	VOLUME	868.6	816.7	0.0
LOCATION	W100	VOLUME	868.7	811.2	0.0
LOCATION	W101	VOLUME	868.9	805.8	0.0
LOCATION	W102	VOLUME	869.0	800.3	0.0
LOCATION	W103	VOLUME	869.1	794.8	0.0
LOCATION	W104	VOLUME	869.3	789.4	0.0
LOCATION	W105	VOLUME	869.4	783.9	0.0
LOCATION	W106	VOLUME	869.5	778.4	0.0
LOCATION	W107	VOLUME	869.7	772.9	0.0
LOCATION	W108	VOLUME	869.8	767.5	0.0
LOCATION	W109	VOLUME	870.0	762.0	0.0
LOCATION	W110	VOLUME	870.1	756.5	0.0
LOCATION	W111	VOLUME	870.2	751.1	0.0
LOCATION	W112	VOLUME	870.4	745.6	0.0
LOCATION	W113	VOLUME	870.5	740.1	0.0
LOCATION	W114	VOLUME	870.6	734.7	0.0
LOCATION	W115	VOLUME	870.8	729.2	0.0
LOCATION	W116	VOLUME	870.9	723.7	0.0
LOCATION	W117	VOLUME	871.0	718.2	0.0

LOCATION	W118	VOLUME	871.2	712.8	0.0
LOCATION	W119	VOLUME	871.3	707.3	0.0
LOCATION	W120	VOLUME	871.5	701.8	0.0
LOCATION	W121	VOLUME	871.6	696.4	0.0
LOCATION	W122	VOLUME	871.7	690.9	0.0
LOCATION	W123	VOLUME	871.9	685.4	0.0
LOCATION	W124	VOLUME	872.0	680.0	0.0
LOCATION	W125	VOLUME	872.1	674.5	0.0
LOCATION	W126	VOLUME	872.3	669.0	0.0
LOCATION	W127	VOLUME	872.4	663.5	0.0
LOCATION	W128	VOLUME	872.5	658.1	0.0
LOCATION	W129	VOLUME	872.7	652.6	0.0
LOCATION	W130	VOLUME	872.8	647.1	0.0
LOCATION	W131	VOLUME	872.9	641.7	0.0
LOCATION	W132	VOLUME	873.1	636.2	0.0
LOCATION	W133	VOLUME	873.2	630.7	0.0
LOCATION	W134	VOLUME	873.4	625.3	0.0
LOCATION	W135	VOLUME	873.5	619.8	0.0
LOCATION	W136	VOLUME	873.6	614.3	0.0
LOCATION	W137	VOLUME	873.8	608.8	0.0
LOCATION	W138	VOLUME	873.9	603.4	0.0
LOCATION	W139	VOLUME	874.0	597.9	0.0
LOCATION	W140	VOLUME	874.2	592.4	0.0
LOCATION	W141	VOLUME	874.3	587.0	0.0
LOCATION	W142	VOLUME	874.4	581.5	0.0
LOCATION	W143	VOLUME	874.6	576.0	0.0
LOCATION	W144	VOLUME	874.7	570.6	0.0
LOCATION	W145	VOLUME	874.9	565.1	0.0
LOCATION	W146	VOLUME	875.0	559.6	0.0
LOCATION	W147	VOLUME	875.1	554.1	0.0
LOCATION	W148	VOLUME	875.3	548.7	0.0
LOCATION	W149	VOLUME	875.4	543.2	0.0
LOCATION	W150	VOLUME	875.5	537.7	0.0
LOCATION	W151	VOLUME	875.7	532.3	0.0
LOCATION	W152	VOLUME	875.8	526.8	0.0
LOCATION	W153	VOLUME	875.9	521.3	0.0
LOCATION	W154	VOLUME	876.1	515.9	0.0
LOCATION	W155	VOLUME	876.2	510.4	0.0
LOCATION	W156	VOLUME	876.3	504.9	0.0
LOCATION	W157	VOLUME	876.5	499.4	0.0
LOCATION	W158	VOLUME	876.6	494.0	0.0
LOCATION	W159	VOLUME	876.8	488.5	0.0
LOCATION	W160	VOLUME	876.9	483.0	0.0
LOCATION	W161	VOLUME	877.0	477.6	0.0
LOCATION	W162	VOLUME	877.2	472.1	0.0
LOCATION	W163	VOLUME	877.3	466.6	0.0
LOCATION	W164	VOLUME	877.4	461.2	0.0
LOCATION	W165	VOLUME	877.6	455.7	0.0
LOCATION	W166	VOLUME	877.7	450.2	0.0
LOCATION	W167	VOLUME	877.8	444.7	0.0
LOCATION	W168	VOLUME	878.0	439.3	0.0
LOCATION	W169	VOLUME	878.1	433.8	0.0
LOCATION	W170	VOLUME	878.3	428.3	0.0
LOCATION	W171	VOLUME	878.4	422.9	0.0



LOCATION	W172	VOLUME	878.5	417.4	0.0
LOCATION	W173	VOLUME	878.7	411.9	0.0
LOCATION	W174	VOLUME	878.8	406.5	0.0
LOCATION	W175	VOLUME	878.9	401.0	0.0
LOCATION	W176	VOLUME	879.1	395.5	0.0
LOCATION	W177	VOLUME	879.2	390.0	0.0
LOCATION	W178	VOLUME	879.3	384.6	0.0
LOCATION	W179	VOLUME	879.5	379.1	0.0
LOCATION	W180	VOLUME	879.6	373.6	0.0
LOCATION	W181	VOLUME	879.7	368.2	0.0
LOCATION	W182	VOLUME	879.9	362.7	0.0
LOCATION	W183	VOLUME	880.0	357.2	0.0
LOCATION	W184	VOLUME	880.2	351.8	0.0
LOCATION	W185	VOLUME	880.3	346.3	0.0
LOCATION	W186	VOLUME	880.4	340.8	0.0
LOCATION	W187	VOLUME	880.6	335.3	0.0
LOCATION	W188	VOLUME	880.7	329.9	0.0
LOCATION	W189	VOLUME	880.8	324.4	0.0
LOCATION	W190	VOLUME	881.0	318.9	0.0
LOCATION	W191	VOLUME	881.1	313.5	0.0
LOCATION	W192	VOLUME	881.2	308.0	0.0
LOCATION	W193	VOLUME	881.4	302.5	0.0
LOCATION	W194	VOLUME	881.5	297.1	0.0
LOCATION	W195	VOLUME	881.7	291.6	0.0
LOCATION	W196	VOLUME	881.8	286.1	0.0
LOCATION	W197	VOLUME	881.9	280.6	0.0
LOCATION	W198	VOLUME	882.1	275.2	0.0
LOCATION	W199	VOLUME	882.2	269.7	0.0
LOCATION	W200	VOLUME	882.3	264.2	0.0
LOCATION	W201	VOLUME	882.5	258.8	0.0
LOCATION	W202	VOLUME	882.6	253.3	0.0
LOCATION	W203	VOLUME	882.7	247.8	0.0
LOCATION	W204	VOLUME	882.9	242.4	0.0
LOCATION	W205	VOLUME	883.0	236.9	0.0
LOCATION	W206	VOLUME	883.1	231.4	0.0
LOCATION	W207	VOLUME	883.3	225.9	0.0
LOCATION	W208	VOLUME	883.4	220.5	0.0
LOCATION	W209	VOLUME	883.6	215.0	0.0
LOCATION	W210	VOLUME	883.7	209.5	0.0
LOCATION	W211	VOLUME	883.8	204.1	0.0
LOCATION	W212	VOLUME	884.0	198.6	0.0
LOCATION	W213	VOLUME	886.4	194.6	0.0
LOCATION	W214	VOLUME	891.2	191.8	0.0
LOCATION	W215	VOLUME	896.0	189.0	0.0
LOCATION	W216	VOLUME	900.8	186.2	0.0
LOCATION	W217	VOLUME	905.6	183.4	0.0
LOCATION	W218	VOLUME	910.4	180.6	0.0
LOCATION	W219	VOLUME	915.2	177.8	0.0
LOCATION	W220	VOLUME	920.0	175.0	0.0
LOCATION	W221	VOLUME	924.8	172.2	0.0
LOCATION	W222	VOLUME	929.6	169.4	0.0
LOCATION	W223	VOLUME	934.4	166.6	0.0
LOCATION	W224	VOLUME	939.2	163.8	0.0
LOCATION	W225	VOLUME	944.0	161.0	0.0

LOCATION	W226	VOLUME	948.8	158.2	0.0
LOCATION	W227	VOLUME	953.6	155.4	0.0
LOCATION	W228	VOLUME	958.4	152.6	0.0
LOCATION	W229	VOLUME	963.2	149.8	0.0
LOCATION	W230	VOLUME	968.0	147.0	0.0
LOCATION	W231	VOLUME	972.8	144.2	0.0
LOCATION	W232	VOLUME	977.6	141.4	0.0
LOCATION	W233	VOLUME	982.4	138.6	0.0
LOCATION	W234	VOLUME	987.2	135.8	0.0
LOCATION	W235	VOLUME	992.0	133.0	0.0
LOCATION	W236	VOLUME	996.8	130.2	0.0
LOCATION	W237	VOLUME	1001.6	127.4	0.0
LOCATION	W238	VOLUME	1006.4	124.6	0.0
LOCATION	W239	VOLUME	1011.2	121.8	0.0
LOCATION	W240	VOLUME	1016.0	119.0	0.0
LOCATION	W241	VOLUME	1020.8	116.2	0.0
LOCATION	W242	VOLUME	1025.6	113.4	0.0
LOCATION	W243	VOLUME	1030.4	110.6	0.0
LOCATION	W244	VOLUME	1035.2	107.8	0.0
LOCATION	W245	VOLUME	1040.0	105.0	0.0
LOCATION	W246	VOLUME	1044.8	102.2	0.0
LOCATION	W247	VOLUME	1049.6	99.4	0.0
LOCATION	W248	VOLUME	1054.4	96.6	0.0
LOCATION	W249	VOLUME	1059.2	93.8	0.0
LOCATION	W250	VOLUME	1064.0	91.0	0.0
LOCATION	W251	VOLUME	1068.8	88.2	0.0
LOCATION	W252	VOLUME	1073.6	85.4	0.0
LOCATION	W253	VOLUME	1078.4	82.6	0.0
LOCATION	W254	VOLUME	1083.2	79.8	0.0
LOCATION	W255	VOLUME	1088.0	77.0	0.0
LOCATION	W256	VOLUME	1092.8	74.2	0.0
LOCATION	W257	VOLUME	1097.6	71.4	0.0
LOCATION	W258	VOLUME	1102.4	68.6	0.0
LOCATION	W259	VOLUME	1107.2	65.8	0.0
LOCATION	W260	VOLUME	1112.0	63.0	0.0
LOCATION	W261	VOLUME	1116.8	60.2	0.0
LOCATION	W262	VOLUME	1121.6	57.4	0.0
LOCATION	W263	VOLUME	1126.4	54.6	0.0
LOCATION	W264	VOLUME	1131.2	51.8	0.0
LOCATION	W265	VOLUME	1136.0	49.0	0.0
LOCATION	W266	VOLUME	1140.8	46.2	0.0
LOCATION	W267	VOLUME	1145.6	43.4	0.0
LOCATION	W268	VOLUME	1150.4	40.6	0.0
LOCATION	W269	VOLUME	1155.2	37.8	0.0
LOCATION	W270	VOLUME	1160.0	35.0	0.0
LOCATION	W271	VOLUME	1164.8	32.2	0.0
LOCATION	W272	VOLUME	1169.6	29.4	0.0
LOCATION	W273	VOLUME	1174.4	26.6	0.0
LOCATION	W274	VOLUME	1179.2	23.8	0.0
LOCATION	W275	VOLUME	1184.0	21.0	0.0
LOCATION	W276	VOLUME	1188.8	18.2	0.0
LOCATION	W277	VOLUME	1193.6	15.4	0.0
LOCATION	W278	VOLUME	1198.4	12.6	0.0
LOCATION	W279	VOLUME	1203.2	9.8	0.0

LOCATION	W280	VOLUME	1208.0	7.0	0.0
LOCATION	W281	VOLUME	1212.8	4.2	0.0
LOCATION	W282	VOLUME	1217.6	1.4	0.0

\*\* I-40E Exit

LOCATION	E1	VOLUME	538.5	403.2	0.0
LOCATION	E2	VOLUME	541.5	403.5	0.0
LOCATION	E3	VOLUME	544.5	403.8	0.0
LOCATION	E4	VOLUME	547.5	404.1	0.0
LOCATION	E5	VOLUME	550.5	404.4	0.0
LOCATION	E6	VOLUME	553.5	404.7	0.0
LOCATION	E7	VOLUME	556.4	405.1	0.0
LOCATION	E8	VOLUME	559.4	405.4	0.0
LOCATION	E9	VOLUME	562.4	405.7	0.0
LOCATION	E10	VOLUME	565.4	406.0	0.0
LOCATION	E11	VOLUME	568.4	406.3	0.0
LOCATION	E12	VOLUME	571.4	406.6	0.0
LOCATION	E13	VOLUME	574.4	407.0	0.0
LOCATION	E14	VOLUME	577.4	407.3	0.0
LOCATION	E15	VOLUME	580.4	407.6	0.0
LOCATION	E16	VOLUME	583.4	407.9	0.0
LOCATION	E17	VOLUME	586.3	408.2	0.0
LOCATION	E18	VOLUME	589.3	408.5	0.0
LOCATION	E19	VOLUME	592.3	408.9	0.0
LOCATION	E20	VOLUME	595.3	409.2	0.0
LOCATION	E21	VOLUME	598.3	409.5	0.0
LOCATION	E22	VOLUME	601.3	409.8	0.0
LOCATION	E23	VOLUME	604.3	410.1	0.0
LOCATION	E24	VOLUME	607.3	410.5	0.0
LOCATION	E25	VOLUME	610.3	410.8	0.0
LOCATION	E26	VOLUME	613.3	411.1	0.0
LOCATION	E27	VOLUME	616.2	411.4	0.0
LOCATION	E28	VOLUME	619.2	411.7	0.0
LOCATION	E29	VOLUME	622.2	412.0	0.0
LOCATION	E30	VOLUME	625.2	412.4	0.0
LOCATION	E31	VOLUME	628.2	412.7	0.0
LOCATION	E32	VOLUME	631.2	413.0	0.0
LOCATION	E33	VOLUME	634.2	413.3	0.0
LOCATION	E34	VOLUME	637.2	413.6	0.0
LOCATION	E35	VOLUME	640.2	413.9	0.0
LOCATION	E36	VOLUME	643.2	414.3	0.0
LOCATION	E37	VOLUME	646.1	414.6	0.0
LOCATION	E38	VOLUME	649.1	414.9	0.0
LOCATION	E39	VOLUME	652.1	415.2	0.0
LOCATION	E40	VOLUME	655.1	415.5	0.0
LOCATION	E41	VOLUME	658.1	415.8	0.0
LOCATION	E42	VOLUME	661.1	416.2	0.0
LOCATION	E43	VOLUME	664.1	416.5	0.0
LOCATION	E44	VOLUME	667.1	416.8	0.0
LOCATION	E45	VOLUME	670.1	417.1	0.0
LOCATION	E46	VOLUME	673.1	417.4	0.0
LOCATION	E47	VOLUME	676.0	417.7	0.0
LOCATION	E48	VOLUME	679.0	418.1	0.0
LOCATION	E49	VOLUME	682.0	418.4	0.0

LOCATION	E50	VOLUME	685.0	418.7	0.0
LOCATION	E51	VOLUME	688.0	419.0	0.0
LOCATION	E52	VOLUME	691.0	419.3	0.0
LOCATION	E53	VOLUME	694.0	419.6	0.0
LOCATION	E54	VOLUME	697.0	420.0	0.0
LOCATION	E55	VOLUME	700.0	420.3	0.0
LOCATION	E56	VOLUME	703.0	420.6	0.0
LOCATION	E57	VOLUME	705.9	420.9	0.0
LOCATION	E58	VOLUME	708.9	421.2	0.0
LOCATION	E59	VOLUME	711.9	421.5	0.0
LOCATION	E60	VOLUME	714.9	421.9	0.0
LOCATION	E61	VOLUME	717.9	422.2	0.0
LOCATION	E62	VOLUME	720.9	422.5	0.0
LOCATION	E63	VOLUME	723.9	422.8	0.0
LOCATION	E64	VOLUME	726.9	423.1	0.0
LOCATION	E65	VOLUME	729.9	423.4	0.0
LOCATION	E66	VOLUME	732.9	423.8	0.0
LOCATION	E67	VOLUME	735.8	424.1	0.0
LOCATION	E68	VOLUME	738.8	424.4	0.0
LOCATION	E69	VOLUME	741.8	424.7	0.0
LOCATION	E70	VOLUME	744.8	425.0	0.0
LOCATION	E71	VOLUME	747.8	425.4	0.0
LOCATION	E72	VOLUME	750.8	425.7	0.0
LOCATION	E73	VOLUME	753.8	426.0	0.0
LOCATION	E74	VOLUME	756.8	426.3	0.0
LOCATION	E75	VOLUME	759.8	426.6	0.0
LOCATION	E76	VOLUME	762.8	426.9	0.0
LOCATION	E77	VOLUME	765.7	427.3	0.0
LOCATION	E78	VOLUME	768.7	427.6	0.0
LOCATION	E79	VOLUME	771.7	427.9	0.0
LOCATION	E80	VOLUME	774.7	428.2	0.0
LOCATION	E81	VOLUME	777.7	428.5	0.0
LOCATION	E82	VOLUME	780.7	428.8	0.0
LOCATION	E83	VOLUME	783.7	429.2	0.0
LOCATION	E84	VOLUME	786.7	429.5	0.0
LOCATION	E85	VOLUME	789.7	429.8	0.0
LOCATION	E86	VOLUME	792.7	430.1	0.0
LOCATION	E87	VOLUME	795.6	430.4	0.0
LOCATION	E88	VOLUME	798.6	430.7	0.0
LOCATION	E89	VOLUME	801.6	431.1	0.0
LOCATION	E90	VOLUME	804.6	431.4	0.0
LOCATION	E91	VOLUME	807.6	431.7	0.0
LOCATION	E92	VOLUME	810.6	432.0	0.0
LOCATION	E93	VOLUME	813.6	432.3	0.0
LOCATION	E94	VOLUME	816.6	432.6	0.0
LOCATION	E95	VOLUME	819.6	433.0	0.0
LOCATION	E96	VOLUME	822.6	433.3	0.0
LOCATION	E97	VOLUME	825.5	433.6	0.0
LOCATION	E98	VOLUME	828.5	433.9	0.0
LOCATION	E99	VOLUME	831.5	434.2	0.0
LOCATION	E100	VOLUME	834.5	434.5	0.0
LOCATION	E101	VOLUME	837.5	434.9	0.0
LOCATION	E102	VOLUME	840.5	435.2	0.0
LOCATION	E103	VOLUME	843.5	435.5	0.0

LOCATION	E104	VOLUME	846.5	435.8	0.0
LOCATION	E105	VOLUME	849.5	436.1	0.0
LOCATION	E106	VOLUME	852.5	436.4	0.0
LOCATION	E107	VOLUME	855.4	436.8	0.0
LOCATION	E108	VOLUME	858.4	437.1	0.0
LOCATION	E109	VOLUME	861.4	437.4	0.0
LOCATION	E110	VOLUME	864.4	437.7	0.0
LOCATION	E111	VOLUME	867.4	438.0	0.0
LOCATION	E112	VOLUME	870.4	438.3	0.0
LOCATION	E113	VOLUME	873.4	438.7	0.0
LOCATION	E114	VOLUME	876.4	439.0	0.0
LOCATION	E115	VOLUME	879.4	439.3	0.0
LOCATION	E116	VOLUME	882.4	439.6	0.0
LOCATION	E117	VOLUME	885.3	439.9	0.0
LOCATION	E118	VOLUME	888.3	440.2	0.0
LOCATION	E119	VOLUME	891.3	440.6	0.0
LOCATION	E120	VOLUME	894.3	440.9	0.0
LOCATION	E121	VOLUME	897.3	441.2	0.0
LOCATION	E122	VOLUME	900.3	441.5	0.0
LOCATION	E123	VOLUME	903.3	441.8	0.0
LOCATION	E124	VOLUME	906.3	442.2	0.0
LOCATION	E125	VOLUME	909.3	442.5	0.0
LOCATION	E126	VOLUME	912.3	442.8	0.0
LOCATION	E127	VOLUME	915.2	443.1	0.0
LOCATION	E128	VOLUME	918.2	443.4	0.0
LOCATION	E129	VOLUME	921.2	443.7	0.0
LOCATION	E130	VOLUME	924.2	444.1	0.0
LOCATION	E131	VOLUME	927.2	444.4	0.0
LOCATION	E132	VOLUME	930.2	444.7	0.0
LOCATION	E133	VOLUME	933.2	445.0	0.0
LOCATION	E134	VOLUME	936.2	445.3	0.0
LOCATION	E135	VOLUME	939.2	445.6	0.0
LOCATION	E136	VOLUME	942.2	446.0	0.0
LOCATION	E137	VOLUME	945.1	446.3	0.0
LOCATION	E138	VOLUME	948.1	446.6	0.0
LOCATION	E139	VOLUME	951.1	446.9	0.0
LOCATION	E140	VOLUME	954.1	447.2	0.0
LOCATION	E141	VOLUME	957.1	447.5	0.0
LOCATION	E142	VOLUME	960.1	447.9	0.0

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LOCATION	E143	VOLUME	962.9	448.8	0.0
LOCATION	E144	VOLUME	964.3	451.5	0.0
LOCATION	E145	VOLUME	965.6	454.2	0.0
LOCATION	E146	VOLUME	967.0	456.8	0.0
LOCATION	E147	VOLUME	968.4	459.5	0.0
LOCATION	E148	VOLUME	969.8	462.1	0.0
LOCATION	E149	VOLUME	971.1	464.8	0.0
LOCATION	E150	VOLUME	972.5	467.5	0.0
LOCATION	E151	VOLUME	973.9	470.1	0.0
LOCATION	E152	VOLUME	975.3	472.8	0.0
LOCATION	E153	VOLUME	976.6	475.4	0.0
LOCATION	E154	VOLUME	978.0	478.1	0.0
LOCATION	E155	VOLUME	979.4	480.8	0.0

LOCATION	E156	VOLUME	980.8	483.4	0.0
LOCATION	E157	VOLUME	982.1	486.1	0.0
LOCATION	E158	VOLUME	983.5	488.7	0.0
LOCATION	E159	VOLUME	984.9	491.4	0.0
LOCATION	E160	VOLUME	986.3	494.1	0.0
LOCATION	E161	VOLUME	987.6	496.7	0.0
LOCATION	E162	VOLUME	989.0	499.4	0.0
LOCATION	E163	VOLUME	990.4	502.0	0.0
LOCATION	E164	VOLUME	991.8	504.7	0.0
LOCATION	E165	VOLUME	993.1	507.4	0.0
LOCATION	E166	VOLUME	994.5	510.0	0.0
LOCATION	E167	VOLUME	995.9	512.7	0.0
LOCATION	E168	VOLUME	997.3	515.3	0.0
LOCATION	E169	VOLUME	998.6	518.0	0.0
LOCATION	E170	VOLUME	1000.0	520.7	0.0
LOCATION	E171	VOLUME	1001.4	523.3	0.0
LOCATION	E172	VOLUME	1002.8	526.0	0.0
LOCATION	E173	VOLUME	1004.1	528.6	0.0
LOCATION	E174	VOLUME	1005.5	531.3	0.0
LOCATION	E175	VOLUME	1006.9	534.0	0.0
LOCATION	E176	VOLUME	1008.3	536.6	0.0
LOCATION	E177	VOLUME	1009.6	539.3	0.0
LOCATION	E178	VOLUME	1011.0	541.9	0.0
LOCATION	E179	VOLUME	1012.4	544.6	0.0
LOCATION	E180	VOLUME	1013.8	547.3	0.0
LOCATION	E181	VOLUME	1015.1	549.9	0.0
LOCATION	E182	VOLUME	1016.5	552.6	0.0
LOCATION	E183	VOLUME	1017.9	555.2	0.0
LOCATION	E184	VOLUME	1019.3	557.9	0.0
LOCATION	E185	VOLUME	1020.6	560.6	0.0
LOCATION	E186	VOLUME	1022.0	563.2	0.0
LOCATION	E187	VOLUME	1023.4	565.9	0.0
LOCATION	E188	VOLUME	1024.8	568.5	0.0
LOCATION	E189	VOLUME	1026.1	571.2	0.0
LOCATION	E190	VOLUME	1027.5	573.9	0.0
LOCATION	E191	VOLUME	1028.9	576.5	0.0
LOCATION	E192	VOLUME	1030.3	579.2	0.0
LOCATION	E193	VOLUME	1031.6	581.8	0.0
LOCATION	E194	VOLUME	1033.0	584.5	0.0
LOCATION	E195	VOLUME	1034.4	587.2	0.0
LOCATION	E196	VOLUME	1035.8	589.8	0.0
LOCATION	E197	VOLUME	1037.1	592.5	0.0
LOCATION	E198	VOLUME	1038.5	595.1	0.0
LOCATION	E199	VOLUME	1039.9	597.8	0.0
LOCATION	E200	VOLUME	1041.3	600.4	0.0
LOCATION	E201	VOLUME	1042.6	603.1	0.0
LOCATION	E202	VOLUME	1044.0	605.8	0.0
LOCATION	E203	VOLUME	1045.4	608.4	0.0
LOCATION	E204	VOLUME	1046.8	611.1	0.0
LOCATION	E205	VOLUME	1048.1	613.7	0.0
LOCATION	E206	VOLUME	1049.5	616.4	0.0
LOCATION	E207	VOLUME	1050.9	619.1	0.0
LOCATION	E208	VOLUME	1052.3	621.7	0.0
LOCATION	E209	VOLUME	1053.6	624.4	0.0

LOCATION	E210	VOLUME	1055.0	627.0	0.0
LOCATION	E211	VOLUME	1056.4	629.7	0.0
LOCATION	E212	VOLUME	1057.8	632.4	0.0
LOCATION	E213	VOLUME	1059.1	635.0	0.0
LOCATION	E214	VOLUME	1060.5	637.7	0.0
LOCATION	E215	VOLUME	1061.9	640.3	0.0
LOCATION	E216	VOLUME	1063.3	643.0	0.0
LOCATION	E217	VOLUME	1064.6	645.7	0.0
LOCATION	E218	VOLUME	1066.0	648.3	0.0
LOCATION	E219	VOLUME	1067.4	651.0	0.0
LOCATION	E220	VOLUME	1068.8	653.6	0.0
LOCATION	E221	VOLUME	1070.1	656.3	0.0
LOCATION	E222	VOLUME	1071.5	659.0	0.0
LOCATION	E223	VOLUME	1072.9	661.6	0.0
LOCATION	E224	VOLUME	1074.3	664.3	0.0
LOCATION	E225	VOLUME	1075.6	666.9	0.0
LOCATION	E226	VOLUME	1077.0	669.6	0.0
LOCATION	E227	VOLUME	1078.4	672.3	0.0
LOCATION	E228	VOLUME	1079.8	674.9	0.0
LOCATION	E229	VOLUME	1081.1	677.6	0.0
LOCATION	E230	VOLUME	1082.5	680.2	0.0
LOCATION	E231	VOLUME	1083.9	682.9	0.0
LOCATION	E232	VOLUME	1085.3	685.6	0.0
LOCATION	E233	VOLUME	1086.6	688.2	0.0
LOCATION	E234	VOLUME	1088.0	690.9	0.0
LOCATION	E235	VOLUME	1089.4	693.5	0.0
LOCATION	E236	VOLUME	1090.8	696.2	0.0
LOCATION	E237	VOLUME	1092.1	698.9	0.0
LOCATION	E238	VOLUME	1093.5	701.5	0.0
LOCATION	E239	VOLUME	1094.9	704.2	0.0
LOCATION	E240	VOLUME	1096.3	706.8	0.0
LOCATION	E241	VOLUME	1097.6	709.5	0.0
LOCATION	E242	VOLUME	1099.0	712.2	0.0
LOCATION	E243	VOLUME	1100.4	714.8	0.0
LOCATION	E244	VOLUME	1101.8	717.5	0.0
LOCATION	E245	VOLUME	1103.1	720.1	0.0
LOCATION	E246	VOLUME	1104.5	722.8	0.0
LOCATION	E247	VOLUME	1105.9	725.5	0.0
LOCATION	E248	VOLUME	1107.3	728.1	0.0
LOCATION	E249	VOLUME	1108.6	730.8	0.0
LOCATION	E250	VOLUME	1110.0	733.4	0.0
LOCATION	E251	VOLUME	1111.4	736.1	0.0
LOCATION	E252	VOLUME	1112.8	738.8	0.0
LOCATION	E253	VOLUME	1114.1	741.4	0.0
LOCATION	E254	VOLUME	1115.5	744.1	0.0
LOCATION	E255	VOLUME	1116.9	746.7	0.0
LOCATION	E256	VOLUME	1118.3	749.4	0.0
LOCATION	E257	VOLUME	1119.6	752.1	0.0
LOCATION	E258	VOLUME	1121.0	754.7	0.0
LOCATION	E259	VOLUME	1122.4	757.4	0.0
LOCATION	E260	VOLUME	1123.8	760.0	0.0
LOCATION	E261	VOLUME	1125.1	762.7	0.0
LOCATION	E262	VOLUME	1126.5	765.4	0.0
LOCATION	E263	VOLUME	1127.9	768.0	0.0

LOCATION E264 VOLUME 1129.3 770.7 0.0

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LOCATION	E265	VOLUME	549.1	426.2	0.0
LOCATION	E266	VOLUME	550.9	428.6	0.0
LOCATION	E267	VOLUME	552.7	431.0	0.0
LOCATION	E268	VOLUME	554.6	433.3	0.0
LOCATION	E269	VOLUME	556.4	435.7	0.0
LOCATION	E270	VOLUME	558.2	438.1	0.0
LOCATION	E271	VOLUME	560.0	440.5	0.0
LOCATION	E272	VOLUME	561.8	442.9	0.0
LOCATION	E273	VOLUME	563.7	445.2	0.0
LOCATION	E274	VOLUME	565.5	447.6	0.0
LOCATION	E275	VOLUME	567.3	450.0	0.0
LOCATION	E276	VOLUME	569.1	452.4	0.0
LOCATION	E277	VOLUME	570.9	454.8	0.0
LOCATION	E278	VOLUME	572.8	457.1	0.0
LOCATION	E279	VOLUME	574.6	459.5	0.0
LOCATION	E280	VOLUME	576.4	461.9	0.0
LOCATION	E281	VOLUME	578.2	464.3	0.0
LOCATION	E282	VOLUME	580.0	466.7	0.0
LOCATION	E283	VOLUME	581.9	469.0	0.0
LOCATION	E284	VOLUME	583.7	471.4	0.0
LOCATION	E285	VOLUME	585.5	473.8	0.0
LOCATION	E286	VOLUME	587.3	476.2	0.0
LOCATION	E287	VOLUME	589.1	478.6	0.0
LOCATION	E288	VOLUME	590.9	481.0	0.0
LOCATION	E289	VOLUME	592.8	483.3	0.0
LOCATION	E290	VOLUME	594.6	485.7	0.0
LOCATION	E291	VOLUME	596.4	488.1	0.0
LOCATION	E292	VOLUME	598.2	490.5	0.0
LOCATION	E293	VOLUME	600.0	492.9	0.0
LOCATION	E294	VOLUME	601.9	495.2	0.0
LOCATION	E295	VOLUME	603.7	497.6	0.0
LOCATION	E296	VOLUME	605.5	500.0	0.0
LOCATION	E297	VOLUME	607.3	502.4	0.0
LOCATION	E298	VOLUME	609.1	504.8	0.0
LOCATION	E299	VOLUME	611.0	507.1	0.0
LOCATION	E300	VOLUME	612.8	509.5	0.0
LOCATION	E301	VOLUME	614.6	511.9	0.0
LOCATION	E302	VOLUME	616.4	514.3	0.0
LOCATION	E303	VOLUME	618.2	516.7	0.0
LOCATION	E304	VOLUME	620.1	519.0	0.0
LOCATION	E305	VOLUME	621.9	521.4	0.0
LOCATION	E306	VOLUME	623.7	523.8	0.0
LOCATION	E307	VOLUME	625.5	526.2	0.0
LOCATION	E308	VOLUME	627.3	528.6	0.0
LOCATION	E309	VOLUME	629.1	531.0	0.0
LOCATION	E310	VOLUME	631.0	533.3	0.0
LOCATION	E311	VOLUME	632.8	535.7	0.0
LOCATION	E312	VOLUME	634.6	538.1	0.0
LOCATION	E313	VOLUME	636.4	540.5	0.0
LOCATION	E314	VOLUME	638.2	542.9	0.0
LOCATION	E315	VOLUME	640.1	545.2	0.0



LOCATION	E316	VOLUME	641.9	547.6	0.0
LOCATION	E317	VOLUME	643.7	550.0	0.0
LOCATION	E318	VOLUME	645.5	552.4	0.0
LOCATION	E319	VOLUME	647.3	554.8	0.0
LOCATION	E320	VOLUME	649.2	557.1	0.0
LOCATION	E321	VOLUME	651.0	559.5	0.0
LOCATION	E322	VOLUME	652.8	561.9	0.0
LOCATION	E323	VOLUME	654.6	564.3	0.0
LOCATION	E324	VOLUME	656.4	566.7	0.0
LOCATION	E325	VOLUME	658.2	569.0	0.0
LOCATION	E326	VOLUME	660.1	571.4	0.0
LOCATION	E327	VOLUME	661.9	573.8	0.0
LOCATION	E328	VOLUME	663.7	576.2	0.0
LOCATION	E329	VOLUME	665.5	578.6	0.0
LOCATION	E330	VOLUME	667.3	581.0	0.0
LOCATION	E331	VOLUME	669.2	583.3	0.0
LOCATION	E332	VOLUME	671.0	585.7	0.0
LOCATION	E333	VOLUME	672.8	588.1	0.0
LOCATION	E334	VOLUME	674.6	590.5	0.0
LOCATION	E335	VOLUME	676.4	592.9	0.0
LOCATION	E336	VOLUME	678.3	595.2	0.0
LOCATION	E337	VOLUME	680.1	597.6	0.0
LOCATION	E338	VOLUME	681.9	600.0	0.0
LOCATION	E339	VOLUME	683.7	602.4	0.0
LOCATION	E340	VOLUME	685.5	604.8	0.0
LOCATION	E341	VOLUME	687.4	607.1	0.0
LOCATION	E342	VOLUME	689.2	609.5	0.0
LOCATION	E343	VOLUME	691.0	611.9	0.0
LOCATION	E344	VOLUME	692.8	614.3	0.0
LOCATION	E345	VOLUME	694.6	616.7	0.0
LOCATION	E346	VOLUME	696.4	619.1	0.0
LOCATION	E347	VOLUME	698.3	621.4	0.0
LOCATION	E348	VOLUME	700.1	623.8	0.0
LOCATION	E349	VOLUME	701.9	626.2	0.0
LOCATION	E350	VOLUME	703.7	628.6	0.0
LOCATION	E351	VOLUME	705.5	631.0	0.0
LOCATION	E352	VOLUME	707.4	633.3	0.0
LOCATION	E353	VOLUME	709.2	635.7	0.0
LOCATION	E354	VOLUME	711.0	638.1	0.0
LOCATION	E355	VOLUME	712.8	640.5	0.0
LOCATION	E356	VOLUME	714.6	642.9	0.0
LOCATION	E357	VOLUME	716.5	645.2	0.0
LOCATION	E358	VOLUME	718.3	647.6	0.0
LOCATION	E359	VOLUME	720.1	650.0	0.0
LOCATION	E360	VOLUME	721.9	652.4	0.0
LOCATION	E361	VOLUME	723.7	654.8	0.0
LOCATION	E362	VOLUME	725.6	657.1	0.0
LOCATION	E363	VOLUME	727.4	659.5	0.0
LOCATION	E364	VOLUME	729.2	661.9	0.0
LOCATION	E365	VOLUME	731.0	664.3	0.0
LOCATION	E366	VOLUME	732.8	666.7	0.0
LOCATION	E367	VOLUME	734.6	669.1	0.0
LOCATION	E368	VOLUME	736.5	671.4	0.0
LOCATION	E369	VOLUME	738.3	673.8	0.0

LOCATION	E370	VOLUME	740.1	676.2	0.0
LOCATION	E371	VOLUME	741.9	678.6	0.0
LOCATION	E372	VOLUME	743.7	681.0	0.0
LOCATION	E373	VOLUME	745.6	683.3	0.0
LOCATION	E374	VOLUME	747.4	685.7	0.0
LOCATION	E375	VOLUME	749.2	688.1	0.0
LOCATION	E376	VOLUME	751.0	690.5	0.0
LOCATION	E377	VOLUME	752.8	692.9	0.0
LOCATION	E378	VOLUME	754.7	695.2	0.0
LOCATION	E379	VOLUME	756.5	697.6	0.0
LOCATION	E380	VOLUME	758.3	700.0	0.0
LOCATION	E381	VOLUME	760.1	702.4	0.0
LOCATION	E382	VOLUME	761.9	704.8	0.0
LOCATION	E383	VOLUME	763.8	707.1	0.0
LOCATION	E384	VOLUME	765.6	709.5	0.0
LOCATION	E385	VOLUME	767.4	711.9	0.0
LOCATION	E386	VOLUME	769.2	714.3	0.0
LOCATION	E387	VOLUME	771.0	716.7	0.0
LOCATION	E388	VOLUME	772.8	719.1	0.0
LOCATION	E389	VOLUME	774.7	721.4	0.0
LOCATION	E390	VOLUME	776.5	723.8	0.0
LOCATION	E391	VOLUME	778.3	726.2	0.0
LOCATION	E392	VOLUME	780.1	728.6	0.0
LOCATION	E393	VOLUME	781.9	731.0	0.0
LOCATION	E394	VOLUME	783.8	733.3	0.0
LOCATION	E395	VOLUME	785.6	735.7	0.0
LOCATION	E396	VOLUME	787.4	738.1	0.0
LOCATION	E397	VOLUME	789.2	740.5	0.0
LOCATION	E398	VOLUME	791.0	742.9	0.0
LOCATION	E399	VOLUME	792.9	745.2	0.0
LOCATION	E400	VOLUME	794.7	747.6	0.0
LOCATION	E401	VOLUME	796.5	750.0	0.0
LOCATION	E402	VOLUME	798.3	752.4	0.0
LOCATION	E403	VOLUME	800.1	754.8	0.0
LOCATION	E404	VOLUME	802.0	757.1	0.0
LOCATION	E405	VOLUME	803.8	759.5	0.0
LOCATION	E406	VOLUME	805.6	761.9	0.0
LOCATION	E407	VOLUME	807.4	764.3	0.0
LOCATION	E408	VOLUME	809.2	766.7	0.0
LOCATION	E409	VOLUME	811.0	769.1	0.0
LOCATION	E410	VOLUME	812.9	771.4	0.0
LOCATION	E411	VOLUME	814.7	773.8	0.0
LOCATION	E412	VOLUME	816.5	776.2	0.0
LOCATION	E413	VOLUME	818.3	778.6	0.0
LOCATION	E414	VOLUME	820.1	781.0	0.0
LOCATION	E415	VOLUME	822.0	783.3	0.0
LOCATION	E416	VOLUME	823.8	785.7	0.0
LOCATION	E417	VOLUME	825.6	788.1	0.0
LOCATION	E418	VOLUME	827.4	790.5	0.0
LOCATION	E419	VOLUME	829.2	792.9	0.0
LOCATION	E420	VOLUME	831.1	795.2	0.0
LOCATION	E421	VOLUME	832.9	797.6	0.0
LOCATION	E422	VOLUME	834.7	800.0	0.0
LOCATION	E423	VOLUME	836.5	802.4	0.0

LOCATION	E424	VOLUME	838.3	804.8	0.0
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\*\* I-40W Exit

LOCATION	E425	VOLUME	840.5	805.7	0.0
LOCATION	E426	VOLUME	843.5	805.7	0.0
LOCATION	E427	VOLUME	846.5	805.8	0.0
LOCATION	E428	VOLUME	849.5	805.9	0.0
LOCATION	E429	VOLUME	852.5	806.0	0.0
LOCATION	E430	VOLUME	855.5	806.1	0.0
LOCATION	E431	VOLUME	858.5	806.2	0.0
LOCATION	E432	VOLUME	861.5	806.3	0.0
LOCATION	E433	VOLUME	864.5	806.4	0.0
LOCATION	E434	VOLUME	867.5	806.5	0.0
LOCATION	E435	VOLUME	870.5	806.6	0.0
LOCATION	E436	VOLUME	873.5	806.7	0.0
LOCATION	E437	VOLUME	876.5	806.8	0.0
LOCATION	E438	VOLUME	879.5	806.9	0.0
LOCATION	E439	VOLUME	882.5	807.0	0.0
LOCATION	E440	VOLUME	885.5	807.1	0.0
LOCATION	E441	VOLUME	888.5	807.2	0.0
LOCATION	E442	VOLUME	891.5	807.3	0.0
LOCATION	E443	VOLUME	894.5	807.4	0.0
LOCATION	E444	VOLUME	897.5	807.5	0.0
LOCATION	E445	VOLUME	900.5	807.6	0.0
LOCATION	E446	VOLUME	903.5	807.7	0.0
LOCATION	E447	VOLUME	906.5	807.8	0.0
LOCATION	E448	VOLUME	909.5	807.9	0.0
LOCATION	E449	VOLUME	912.5	808.0	0.0
LOCATION	E450	VOLUME	915.5	808.1	0.0
LOCATION	E451	VOLUME	918.5	808.2	0.0
LOCATION	E452	VOLUME	921.5	808.3	0.0
LOCATION	E453	VOLUME	924.5	808.4	0.0
LOCATION	E454	VOLUME	927.5	808.5	0.0
LOCATION	E455	VOLUME	930.5	808.6	0.0
LOCATION	E456	VOLUME	933.5	808.7	0.0
LOCATION	E457	VOLUME	936.5	808.8	0.0
LOCATION	E458	VOLUME	939.5	808.9	0.0
LOCATION	E459	VOLUME	942.5	809.0	0.0
LOCATION	E460	VOLUME	945.5	809.1	0.0
LOCATION	E461	VOLUME	948.5	809.2	0.0
LOCATION	E462	VOLUME	951.5	809.3	0.0
LOCATION	E463	VOLUME	954.5	809.4	0.0
LOCATION	E464	VOLUME	957.5	809.5	0.0
LOCATION	E465	VOLUME	960.5	809.6	0.0
LOCATION	E466	VOLUME	963.5	809.7	0.0
LOCATION	E467	VOLUME	966.5	809.8	0.0
LOCATION	E468	VOLUME	969.5	809.9	0.0
LOCATION	E469	VOLUME	972.5	810.0	0.0
LOCATION	E470	VOLUME	975.5	810.1	0.0
LOCATION	E471	VOLUME	978.5	810.2	0.0
LOCATION	E472	VOLUME	981.5	810.3	0.0
LOCATION	E473	VOLUME	984.5	810.4	0.0
LOCATION	E474	VOLUME	987.5	810.5	0.0
LOCATION	E475	VOLUME	990.5	810.6	0.0

LOCATION	E476	VOLUME	993.5	810.7	0.0
LOCATION	E477	VOLUME	996.5	810.8	0.0
LOCATION	E478	VOLUME	999.5	810.9	0.0
LOCATION	E479	VOLUME	1002.5	811.0	0.0
LOCATION	E480	VOLUME	1005.5	811.1	0.0
LOCATION	E481	VOLUME	1008.5	811.2	0.0
LOCATION	E482	VOLUME	1011.5	811.3	0.0
LOCATION	E483	VOLUME	1014.5	811.4	0.0
LOCATION	E484	VOLUME	1017.5	811.5	0.0
LOCATION	E485	VOLUME	1020.5	811.6	0.0
LOCATION	E486	VOLUME	1023.5	811.7	0.0
LOCATION	E487	VOLUME	1026.5	811.8	0.0
LOCATION	E488	VOLUME	1029.5	811.9	0.0
LOCATION	E489	VOLUME	1032.5	812.0	0.0
LOCATION	E490	VOLUME	1035.5	812.1	0.0
LOCATION	E491	VOLUME	1038.5	812.2	0.0
LOCATION	E492	VOLUME	1041.5	812.3	0.0
LOCATION	E493	VOLUME	1044.5	812.4	0.0
LOCATION	E494	VOLUME	1047.5	812.5	0.0
LOCATION	E495	VOLUME	1050.5	812.6	0.0
LOCATION	E496	VOLUME	1053.5	812.7	0.0
LOCATION	E497	VOLUME	1056.5	812.8	0.0
LOCATION	E498	VOLUME	1059.5	812.9	0.0
LOCATION	E499	VOLUME	1062.5	813.0	0.0
LOCATION	E500	VOLUME	1065.5	813.1	0.0
LOCATION	E501	VOLUME	1068.5	813.2	0.0
LOCATION	E502	VOLUME	1071.5	813.3	0.0
LOCATION	E503	VOLUME	1074.5	813.4	0.0
LOCATION	E504	VOLUME	1077.5	813.5	0.0
LOCATION	E505	VOLUME	1080.5	813.6	0.0
LOCATION	E506	VOLUME	1083.5	813.7	0.0
LOCATION	E507	VOLUME	1086.5	813.8	0.0
LOCATION	E508	VOLUME	1089.5	813.9	0.0
LOCATION	E509	VOLUME	1092.5	814.0	0.0
LOCATION	E510	VOLUME	1095.5	814.1	0.0
LOCATION	E511	VOLUME	1098.5	814.2	0.0
LOCATION	E512	VOLUME	1101.5	814.3	0.0
LOCATION	E513	VOLUME	1104.5	814.4	0.0
LOCATION	E514	VOLUME	1107.5	814.5	0.0
LOCATION	E515	VOLUME	1110.5	814.6	0.0
LOCATION	E516	VOLUME	1113.5	814.7	0.0
LOCATION	E517	VOLUME	1116.5	814.8	0.0
LOCATION	E518	VOLUME	1119.5	814.9	0.0
LOCATION	E519	VOLUME	1122.5	815.0	0.0
LOCATION	E520	VOLUME	1125.5	815.1	0.0
LOCATION	E521	VOLUME	1128.5	815.2	0.0
LOCATION	E522	VOLUME	1131.5	815.3	0.0
LOCATION	E523	VOLUME	1134.5	815.4	0.0
LOCATION	E524	VOLUME	1137.5	815.5	0.0
LOCATION	E525	VOLUME	1140.5	815.6	0.0
LOCATION	E526	VOLUME	1143.5	815.6	0.0
LOCATION	E527	VOLUME	1146.5	815.7	0.0
LOCATION	E528	VOLUME	1149.5	815.8	0.0
LOCATION	E529	VOLUME	1152.5	815.9	0.0

LOCATION	E530	VOLUME	1155.5	816.0	0.0
LOCATION	E531	VOLUME	1158.5	816.1	0.0
LOCATION	E532	VOLUME	1161.5	816.2	0.0
LOCATION	E533	VOLUME	1164.5	816.3	0.0
LOCATION	E534	VOLUME	1167.5	816.4	0.0
LOCATION	E535	VOLUME	1170.5	816.5	0.0
LOCATION	E536	VOLUME	1173.5	816.6	0.0

\*\* Flying J

LOCATION	F1	VOLUME	1037	902	0.0
LOCATION	F2	VOLUME	1054	915	0.0
LOCATION	F3	VOLUME	1071	928	0.0
LOCATION	F4	VOLUME	1088	941	0.0
LOCATION	F5	VOLUME	1105	954	0.0
LOCATION	F6	VOLUME	1121	967	0.0
LOCATION	F7	VOLUME	1058	984	0.0
LOCATION	F8	VOLUME	1091	1007	0.0
LOCATION	F9	VOLUME	1052	1055	0.0
LOCATION	F10	VOLUME	948	1047	0.0
LOCATION	F11	VOLUME	964	1058	0.0
LOCATION	F12	VOLUME	980	1069	0.0
LOCATION	F13	VOLUME	996	1080	0.0
LOCATION	F14	VOLUME	1012	1091	0.0
LOCATION	F15	VOLUME	1028	1103	0.0
LOCATION	F16	VOLUME	1044	1113	0.0

\*\* Travel America

LOCATION	A1	VOLUME	738	193	0.0
LOCATION	A2	VOLUME	761	152	0.0
LOCATION	A3	VOLUME	783	112	0.0
LOCATION	A4	VOLUME	805	72	0.0
LOCATION	A5	VOLUME	828	31	0.0
LOCATION	A6	VOLUME	717	171	0.0
LOCATION	A7	VOLUME	742	133	0.0
LOCATION	A8	VOLUME	767	95	0.0
LOCATION	A9	VOLUME	791	57	0.0
LOCATION	A10	VOLUME	816	19	0.0

\*\* Volume Source SourceID Emission HT SYini SZini

SRCPARAM	P1	225	4.00	22	1.86
SRCPARAM	P2	225	4.00	22	1.86
SRCPARAM	P3	225	4.00	22	1.86
SRCPARAM	P4	337.5	4.00	22	1.86
SRCPARAM	P5	337.5	4.00	22	1.86
SRCPARAM	P6	337.5	4.00	22	1.86
SRCPARAM	P7	307.5	4.00	22	1.86
SRCPARAM	P8	307.5	4.00	22	1.86
SRCPARAM	P9	307.5	4.00	22	1.86
SRCPARAM	P10	307.5	4.00	22	1.86
SRCPARAM	P11	307.5	4.00	22	1.86
SRCPARAM	P12	127.5	4.00	22	1.86
SRCPARAM	P13	127.5	4.00	22	1.86
SRCPARAM	P14	127.5	4.00	22	1.86
SRCPARAM	P15	127.5	4.00	22	1.86

SRCPARAM P16	127.5	4.00	22	1.86
SRCPARAM P17	90	4.00	9.3	1.86
SRCPARAM P18	90	4.00	9.3	1.86
SRCPARAM P19	90	4.00	9.3	1.86
SRCPARAM P20	90	4.00	9.3	1.86
SRCPARAM P21	90	4.00	9.3	1.86
SRCPARAM P22	15	4.00	9.3	1.86
SRCPARAM P23	15	4.00	9.3	1.86
SRCPARAM P24	15	4.00	9.3	1.86
SRCPARAM P25	15	4.00	9.3	1.86
SRCPARAM P26	15	4.00	9.3	1.86
SRCPARAM P27	4	4.00	1.9	1.86
SRCPARAM P28	4	4.00	1.9	1.86
SRCPARAM P29	4	4.00	1.9	1.86
SRCPARAM P30	4	4.00	1.9	1.86
SRCPARAM P31	4	4.00	1.9	1.86
SRCPARAM P32	4	4.00	1.9	1.86
SRCPARAM P33	4	4.00	1.9	1.86
SRCPARAM P34	4	4.00	1.9	1.86
SRCPARAM P35	4	4.00	1.9	1.86
SRCPARAM P36	4	4.00	1.9	1.86
SRCPARAM P37	4	4.00	1.9	1.86
SRCPARAM P38	4	4.00	1.9	1.86
SRCPARAM P39	4	4.00	1.9	1.86
SRCPARAM P40	4	4.00	1.9	1.86
SRCPARAM P41	4	4.00	1.9	1.86
SRCPARAM P42	4	4.00	1.9	1.86
SRCPARAM P43	4	4.00	1.9	1.86
SRCPARAM P44	4	4.00	1.9	1.86
SRCPARAM P45	4	4.00	1.9	1.86
SRCPARAM P46	4	4.00	1.9	1.86
SRCPARAM P47	4	4.00	1.9	1.86
SRCPARAM P48	4	4.00	1.9	1.86
SRCPARAM P49	4	4.00	1.9	1.86
SRCPARAM P50	4	4.00	1.9	1.86
SRCPARAM P51	4	4.00	1.9	1.86
SRCPARAM P52	4	4.00	1.9	1.86
SRCPARAM P53	4	4.00	1.9	1.86
SRCPARAM P54	4	4.00	1.9	1.86
SRCPARAM P55	4	4.00	1.9	1.86
SRCPARAM P56	4	4.00	1.9	1.86
SRCPARAM P57	4	4.00	1.9	1.86
SRCPARAM P58	4	4.00	1.9	1.86
SRCPARAM P59	4	4.00	1.9	1.86
SRCPARAM P60	4	4.00	1.9	1.86
SRCPARAM P61	4	4.00	1.9	1.86
SRCPARAM P62	4	4.00	1.9	1.86
SRCPARAM P63	4	4.00	1.9	1.86
SRCPARAM P64	4	4.00	1.9	1.86
SRCPARAM P65	4	4.00	1.9	1.86
SRCPARAM P66	4	4.00	1.9	1.86
SRCPARAM P67	4	4.00	1.9	1.86
SRCPARAM P68	4	4.00	1.9	1.86
SRCPARAM P69	4	4.00	1.9	1.86

SRCPARAM P70	4	4.00	1.9	1.86
SRCPARAM P71	4	4.00	1.9	1.86
SRCPARAM P72	4	4.00	1.9	1.86
SRCPARAM P73	4	4.00	1.9	1.86
SRCPARAM P74	4	4.00	1.9	1.86
SRCPARAM P75	4	4.00	1.9	1.86
SRCPARAM P76	4	4.00	1.9	1.86
SRCPARAM P77	4	4.00	1.9	1.86
SRCPARAM P78	4	4.00	1.9	1.86
SRCPARAM P79	4	4.00	1.9	1.86
SRCPARAM P80	4	4.00	1.9	1.86
SRCPARAM P81	4	4.00	1.9	1.86
SRCPARAM P82	4	4.00	1.9	1.86
SRCPARAM P83	4	4.00	1.9	1.86
SRCPARAM P84	4	4.00	1.9	1.86
SRCPARAM P85	4	4.00	1.9	1.86
SRCPARAM P86	4	4.00	1.9	1.86
SRCPARAM P87	4	4.00	1.9	1.86
SRCPARAM P88	4	4.00	1.9	1.86
SRCPARAM P89	4	4.00	1.9	1.86
SRCPARAM P90	4	4.00	1.9	1.86
SRCPARAM P91	4	4.00	1.9	1.86
SRCPARAM P92	4	4.00	1.9	1.86
SRCPARAM P93	4	4.00	1.9	1.86
SRCPARAM P94	4	4.00	1.9	1.86
SRCPARAM P95	4	4.00	1.9	1.86
SRCPARAM P96	4	4.00	1.9	1.86
SRCPARAM P97	4	4.00	1.9	1.86
SRCPARAM P98	4	4.00	1.9	1.86
SRCPARAM P99	4	4.00	1.9	1.86
SRCPARAM P100	4	4.00	1.9	1.86
SRCPARAM P101	4	4.00	1.9	1.86
SRCPARAM P102	4	4.00	1.9	1.86
SRCPARAM P103	4	4.00	1.9	1.86
SRCPARAM P104	4	4.00	1.9	1.86
SRCPARAM P105	4	4.00	1.9	1.86
SRCPARAM P106	4	4.00	1.9	1.86
SRCPARAM P107	4	4.00	1.9	1.86
SRCPARAM P108	4	4.00	1.9	1.86
SRCPARAM P109	4	4.00	1.9	1.86
SRCPARAM P110	4	4.00	1.9	1.86
SRCPARAM P111	4	4.00	1.9	1.86
SRCPARAM P112	4	4.00	1.9	1.86
SRCPARAM P113	4	4.00	1.9	1.86
SRCPARAM P114	4	4.00	1.9	1.86
SRCPARAM P115	4	4.00	1.9	1.86
SRCPARAM P116	4	4.00	1.9	1.86
SRCPARAM P117	4	4.00	1.9	1.86
SRCPARAM P118	4	4.00	1.9	1.86
SRCPARAM P119	4	4.00	1.9	1.86
SRCPARAM P120	4	4.00	1.9	1.86
SRCPARAM P121	4	4.00	1.9	1.86
SRCPARAM P122	4	4.00	1.9	1.86
SRCPARAM P123	4	4.00	1.9	1.86

SRCPARAM P124	4	4.00	1.9	1.86
SRCPARAM P125	4	4.00	1.9	1.86
SRCPARAM P126	4	4.00	1.9	1.86
SRCPARAM P127	4	4.00	1.9	1.86
SRCPARAM P128	4	4.00	1.9	1.86
SRCPARAM P129	4	4.00	1.9	1.86
SRCPARAM P130	4	4.00	1.9	1.86
SRCPARAM P131	4	4.00	1.9	1.86
SRCPARAM P132	4	4.00	1.9	1.86
SRCPARAM P133	4	4.00	1.9	1.86
SRCPARAM P134	4	4.00	1.9	1.86
SRCPARAM P135	4	4.00	1.9	1.86
SRCPARAM P136	4	4.00	1.9	1.86
SRCPARAM P137	4	4.00	1.9	1.86
SRCPARAM P138	4	4.00	1.9	1.86
SRCPARAM P139	4	4.00	1.9	1.86
SRCPARAM P140	4	4.00	1.9	1.86
SRCPARAM P141	4	4.00	1.9	1.86
SRCPARAM P142	4	4.00	1.9	1.86
SRCPARAM P143	4	4.00	1.9	1.86
SRCPARAM P144	4	4.00	1.9	1.86
SRCPARAM P145	4	4.00	1.9	1.86
SRCPARAM P146	4	4.00	1.9	1.86
SRCPARAM P147	4	4.00	1.9	1.86
SRCPARAM P148	4	4.00	1.9	1.86
SRCPARAM P149	4	4.00	1.9	1.86
SRCPARAM P150	4	4.00	1.9	1.86
SRCPARAM P151	4	4.00	1.9	1.86
SRCPARAM P152	4	4.00	1.9	1.86
SRCPARAM P153	4	4.00	1.9	1.86
SRCPARAM P154	4	4.00	1.9	1.86
SRCPARAM P155	4	4.00	1.9	1.86
SRCPARAM P156	4	4.00	1.9	1.86
SRCPARAM P157	4	4.00	1.9	1.86
SRCPARAM P158	4	4.00	1.9	1.86
SRCPARAM P159	4	4.00	1.9	1.86
SRCPARAM P160	1.4	4.00	1.9	1.86
SRCPARAM P161	1.4	4.00	1.9	1.86
SRCPARAM P162	1.4	4.00	1.9	1.86
SRCPARAM P163	1.4	4.00	1.9	1.86
SRCPARAM P164	1.4	4.00	1.9	1.86
SRCPARAM P165	1.4	4.00	1.9	1.86
SRCPARAM P166	1.4	4.00	1.9	1.86
SRCPARAM P167	1.4	4.00	1.9	1.86
SRCPARAM P168	1.4	4.00	1.9	1.86
SRCPARAM P169	1.4	4.00	1.9	1.86
SRCPARAM P170	1.4	4.00	1.9	1.86
SRCPARAM P171	1.4	4.00	1.9	1.86
SRCPARAM P172	1.4	4.00	1.9	1.86
SRCPARAM P173	1.4	4.00	1.9	1.86
SRCPARAM P174	1.4	4.00	1.9	1.86
SRCPARAM P175	1.4	4.00	1.9	1.86
SRCPARAM P176	1.4	4.00	1.9	1.86
SRCPARAM P177	1.4	4.00	1.9	1.86



SRCPARAM P178	1.4	4.00	1.9	1.86
SRCPARAM P179	1.4	4.00	1.9	1.86
SRCPARAM P180	1.4	4.00	1.9	1.86
SRCPARAM P181	1.4	4.00	1.9	1.86
SRCPARAM P182	1.4	4.00	1.9	1.86
SRCPARAM P183	1.4	4.00	1.9	1.86
SRCPARAM P184	1.4	4.00	1.9	1.86
SRCPARAM P185	1.4	4.00	1.9	1.86
SRCPARAM P186	1.4	4.00	1.9	1.86
SRCPARAM I1	19.7	4.00	13.5	1.86
SRCPARAM I2	19.7	4.00	13.5	1.86
SRCPARAM I3	19.7	4.00	13.5	1.86
SRCPARAM I4	19.7	4.00	13.5	1.86
SRCPARAM I5	19.7	4.00	13.5	1.86
SRCPARAM I6	19.7	4.00	13.5	1.86
SRCPARAM I7	19.7	4.00	13.5	1.86
SRCPARAM I8	19.7	4.00	13.5	1.86
SRCPARAM I9	19.7	4.00	13.5	1.86
SRCPARAM I10	19.7	4.00	13.5	1.86
SRCPARAM I11	19.7	4.00	13.5	1.86
SRCPARAM I12	19.7	4.00	13.5	1.86
SRCPARAM I13	19.7	4.00	13.5	1.86
SRCPARAM I14	19.7	4.00	13.5	1.86
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SRCPARAM I16	19.7	4.00	13.5	1.86
SRCPARAM I17	19.7	4.00	13.5	1.86
SRCPARAM I18	19.7	4.00	13.5	1.86
SRCPARAM I19	19.7	4.00	13.5	1.86
SRCPARAM I20	19.7	4.00	13.5	1.86
SRCPARAM I21	19.7	4.00	13.5	1.86
SRCPARAM I22	19.7	4.00	13.5	1.86
SRCPARAM I23	19.7	4.00	13.5	1.86
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SRCPARAM I26	19.7	4.00	13.5	1.86
SRCPARAM I27	19.7	4.00	13.5	1.86
SRCPARAM I28	19.7	4.00	13.5	1.86
SRCPARAM I29	19.7	4.00	13.5	1.86
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SRCPARAM I31	19.7	4.00	13.5	1.86
SRCPARAM I32	19.7	4.00	13.5	1.86
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SRCPARAM I38	19.7	4.00	13.5	1.86
SRCPARAM I39	19.7	4.00	13.5	1.86
SRCPARAM I40	19.7	4.00	13.5	1.86
SRCPARAM I41	19.7	4.00	13.5	1.86
SRCPARAM I42	19.7	4.00	13.5	1.86
SRCPARAM I43	19.7	4.00	13.5	1.86
SRCPARAM I44	19.7	4.00	13.5	1.86
SRCPARAM I45	19.7	4.00	13.5	1.86

SRCPARAM I46	19.7	4.00	13.5	1.86
SRCPARAM I47	19.7	4.00	13.5	1.86
SRCPARAM I48	19.7	4.00	13.5	1.86
SRCPARAM I49	19.7	4.00	13.5	1.86
SRCPARAM I50	19.7	4.00	13.5	1.86
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SRCPARAM I71	19.7	4.00	13.5	1.86
SRCPARAM I72	19.7	4.00	13.5	1.86
SRCPARAM I73	19.7	4.00	13.5	1.86
SRCPARAM I74	19.7	4.00	13.5	1.86
SRCPARAM I75	19.7	4.00	13.5	1.86
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SRCPARAM I87	19.7	4.00	13.5	1.86
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SRCPARAM I89	19.7	4.00	13.5	1.86
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SRCPARAM I92	19.7	4.00	13.5	1.86
SRCPARAM I93	19.7	4.00	13.5	1.86
SRCPARAM I94	19.7	4.00	13.5	1.86
SRCPARAM I95	19.7	4.00	13.5	1.86
SRCPARAM I96	19.7	4.00	13.5	1.86
SRCPARAM I97	19.7	4.00	13.5	1.86
SRCPARAM I98	19.7	4.00	13.5	1.86
SRCPARAM I99	19.7	4.00	13.5	1.86

SRCPARAM I100	19.7	4.00	13.5	1.86
SRCPARAM I101	19.7	4.00	13.5	1.86
SRCPARAM I102	19.7	4.00	13.5	1.86
SRCPARAM I103	19.7	4.00	13.5	1.86
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SRCPARAM I108	19.7	4.00	13.5	1.86
SRCPARAM I109	19.7	4.00	13.5	1.86
SRCPARAM I110	19.7	4.00	13.5	1.86
SRCPARAM I111	19.7	4.00	13.5	1.86
SRCPARAM I112	19.7	4.00	13.5	1.86
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SRCPARAM I120	19.7	4.00	13.5	1.86
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SRCPARAM I146	19.7	4.00	13.5	1.86
SRCPARAM I147	19.7	4.00	13.5	1.86
SRCPARAM I148	19.7	4.00	13.5	1.86
SRCPARAM I149	19.7	4.00	13.5	1.86
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SRCPARAM I151	19.7	4.00	13.5	1.86
SRCPARAM I152	19.7	4.00	13.5	1.86
SRCPARAM I153	19.7	4.00	13.5	1.86

SRCPARAM I154	19.7	4.00	13.5	1.86
SRCPARAM I155	19.7	4.00	13.5	1.86
SRCPARAM W1	1.27	4.00	5.1	1.86
SRCPARAM W2	1.27	4.00	5.1	1.86
SRCPARAM W3	1.27	4.00	5.1	1.86
SRCPARAM W4	1.27	4.00	5.1	1.86
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SRCPARAM W8	1.27	4.00	5.1	1.86
SRCPARAM W9	1.27	4.00	5.1	1.86
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SRCPARAM W45	1.27	4.00	5.1	1.86
SRCPARAM W46	1.27	4.00	5.1	1.86
SRCPARAM W47	1.27	4.00	5.1	1.86
SRCPARAM W48	1.27	4.00	5.1	1.86
SRCPARAM W49	1.27	4.00	5.1	1.86
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SRCPARAM W51	1.27	4.00	5.1	1.86
SRCPARAM W52	1.27	4.00	5.1	1.86

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SRCPARAM	W55	1.27	4.00	5.1	1.86
SRCPARAM	W56	1.27	4.00	5.1	1.86
SRCPARAM	W57	1.27	4.00	5.1	1.86
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SRCPARAM	W62	1.27	4.00	5.1	1.86
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SRCPARAM	W99	1.27	4.00	5.1	1.86
SRCPARAM	W100	1.27	4.00	5.1	1.86
SRCPARAM	W101	1.27	4.00	5.1	1.86
SRCPARAM	W102	1.27	4.00	5.1	1.86
SRCPARAM	W103	1.27	4.00	5.1	1.86
SRCPARAM	W104	1.27	4.00	5.1	1.86
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SRCPARAM	W106	1.27	4.00	5.1	1.86

SRCPARAM	W107	1.27	4.00	5.1	1.86
SRCPARAM	W108	1.27	4.00	5.1	1.86
SRCPARAM	W109	1.27	4.00	5.1	1.86
SRCPARAM	W110	1.27	4.00	5.1	1.86
SRCPARAM	W111	1.27	4.00	5.1	1.86
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SRCPARAM	W122	1.27	4.00	5.1	1.86
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SRCPARAM	W124	1.27	4.00	5.1	1.86
SRCPARAM	W125	1.27	4.00	5.1	1.86
SRCPARAM	W126	1.27	4.00	5.1	1.86
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SRCPARAM	W147	1.27	4.00	5.1	1.86
SRCPARAM	W148	1.27	4.00	5.1	1.86
SRCPARAM	W149	1.27	4.00	5.1	1.86
SRCPARAM	W150	1.27	4.00	5.1	1.86
SRCPARAM	W151	1.27	4.00	5.1	1.86
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SRCPARAM	W157	1.27	4.00	5.1	1.86
SRCPARAM	W158	1.27	4.00	5.1	1.86
SRCPARAM	W159	1.27	4.00	5.1	1.86
SRCPARAM	W160	1.27	4.00	5.1	1.86

SRCPARAM	W161	1.27	4.00	5.1	1.86
SRCPARAM	W162	1.27	4.00	5.1	1.86
SRCPARAM	W163	1.27	4.00	5.1	1.86
SRCPARAM	W164	1.27	4.00	5.1	1.86
SRCPARAM	W165	1.27	4.00	5.1	1.86
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SRCPARAM	W167	1.27	4.00	5.1	1.86
SRCPARAM	W168	1.27	4.00	5.1	1.86
SRCPARAM	W169	1.27	4.00	5.1	1.86
SRCPARAM	W170	1.27	4.00	5.1	1.86
SRCPARAM	W171	1.27	4.00	5.1	1.86
SRCPARAM	W172	1.27	4.00	5.1	1.86
SRCPARAM	W173	1.27	4.00	5.1	1.86
SRCPARAM	W174	1.27	4.00	5.1	1.86
SRCPARAM	W175	1.27	4.00	5.1	1.86
SRCPARAM	W176	1.27	4.00	5.1	1.86
SRCPARAM	W177	1.27	4.00	5.1	1.86
SRCPARAM	W178	1.27	4.00	5.1	1.86
SRCPARAM	W179	1.27	4.00	5.1	1.86
SRCPARAM	W180	1.27	4.00	5.1	1.86
SRCPARAM	W181	1.27	4.00	5.1	1.86
SRCPARAM	W182	1.27	4.00	5.1	1.86
SRCPARAM	W183	1.27	4.00	5.1	1.86
SRCPARAM	W184	1.27	4.00	5.1	1.86
SRCPARAM	W185	1.27	4.00	5.1	1.86
SRCPARAM	W186	1.27	4.00	5.1	1.86
SRCPARAM	W187	1.27	4.00	5.1	1.86
SRCPARAM	W188	1.27	4.00	5.1	1.86
SRCPARAM	W189	1.27	4.00	5.1	1.86
SRCPARAM	W190	1.27	4.00	5.1	1.86
SRCPARAM	W191	1.27	4.00	5.1	1.86
SRCPARAM	W192	1.27	4.00	5.1	1.86
SRCPARAM	W193	1.27	4.00	5.1	1.86
SRCPARAM	W194	1.27	4.00	5.1	1.86
SRCPARAM	W195	1.27	4.00	5.1	1.86
SRCPARAM	W196	1.27	4.00	5.1	1.86
SRCPARAM	W197	1.27	4.00	5.1	1.86
SRCPARAM	W198	1.27	4.00	5.1	1.86
SRCPARAM	W199	1.27	4.00	5.1	1.86
SRCPARAM	W200	1.27	4.00	5.1	1.86
SRCPARAM	W201	1.27	4.00	5.1	1.86
SRCPARAM	W202	1.27	4.00	5.1	1.86
SRCPARAM	W203	1.27	4.00	5.1	1.86
SRCPARAM	W204	1.27	4.00	5.1	1.86
SRCPARAM	W205	1.27	4.00	5.1	1.86
SRCPARAM	W206	1.27	4.00	5.1	1.86
SRCPARAM	W207	1.27	4.00	5.1	1.86
SRCPARAM	W208	1.27	4.00	5.1	1.86
SRCPARAM	W209	1.27	4.00	5.1	1.86
SRCPARAM	W210	1.27	4.00	5.1	1.86
SRCPARAM	W211	1.27	4.00	5.1	1.86
SRCPARAM	W212	1.27	4.00	5.1	1.86
SRCPARAM	W213	1.27	4.00	5.1	1.86
SRCPARAM	W214	1.27	4.00	5.1	1.86

SRCPARAM	W215	1.27	4.00	5.1	1.86
SRCPARAM	W216	1.27	4.00	5.1	1.86
SRCPARAM	W217	1.27	4.00	5.1	1.86
SRCPARAM	W218	1.27	4.00	5.1	1.86
SRCPARAM	W219	1.27	4.00	5.1	1.86
SRCPARAM	W220	1.27	4.00	5.1	1.86
SRCPARAM	W221	1.27	4.00	5.1	1.86
SRCPARAM	W222	1.27	4.00	5.1	1.86
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SRCPARAM	W225	1.27	4.00	5.1	1.86
SRCPARAM	W226	1.27	4.00	5.1	1.86
SRCPARAM	W227	1.27	4.00	5.1	1.86
SRCPARAM	W228	1.27	4.00	5.1	1.86
SRCPARAM	W229	1.27	4.00	5.1	1.86
SRCPARAM	W230	1.27	4.00	5.1	1.86
SRCPARAM	W231	1.27	4.00	5.1	1.86
SRCPARAM	W232	1.27	4.00	5.1	1.86
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SRCPARAM	W234	1.27	4.00	5.1	1.86
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SRCPARAM	W236	1.27	4.00	5.1	1.86
SRCPARAM	W237	1.27	4.00	5.1	1.86
SRCPARAM	W238	1.27	4.00	5.1	1.86
SRCPARAM	W239	1.27	4.00	5.1	1.86
SRCPARAM	W240	1.27	4.00	5.1	1.86
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SRCPARAM	W244	1.27	4.00	5.1	1.86
SRCPARAM	W245	1.27	4.00	5.1	1.86
SRCPARAM	W246	1.27	4.00	5.1	1.86
SRCPARAM	W247	1.27	4.00	5.1	1.86
SRCPARAM	W248	1.27	4.00	5.1	1.86
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SRCPARAM	W254	1.27	4.00	5.1	1.86
SRCPARAM	W255	1.27	4.00	5.1	1.86
SRCPARAM	W256	1.27	4.00	5.1	1.86
SRCPARAM	W257	1.27	4.00	5.1	1.86
SRCPARAM	W258	1.27	4.00	5.1	1.86
SRCPARAM	W259	1.27	4.00	5.1	1.86
SRCPARAM	W260	1.27	4.00	5.1	1.86
SRCPARAM	W261	1.27	4.00	5.1	1.86
SRCPARAM	W262	1.27	4.00	5.1	1.86
SRCPARAM	W263	1.27	4.00	5.1	1.86
SRCPARAM	W264	1.27	4.00	5.1	1.86
SRCPARAM	W265	1.27	4.00	5.1	1.86
SRCPARAM	W266	1.27	4.00	5.1	1.86
SRCPARAM	W267	1.27	4.00	5.1	1.86
SRCPARAM	W268	1.27	4.00	5.1	1.86



SRCPARAM W269	1.27	4.00	5.1	1.86
SRCPARAM W270	1.27	4.00	5.1	1.86
SRCPARAM W271	1.27	4.00	5.1	1.86
SRCPARAM W272	1.27	4.00	5.1	1.86
SRCPARAM W273	1.27	4.00	5.1	1.86
SRCPARAM W274	1.27	4.00	5.1	1.86
SRCPARAM W275	1.27	4.00	5.1	1.86
SRCPARAM W276	1.27	4.00	5.1	1.86
SRCPARAM W277	1.27	4.00	5.1	1.86
SRCPARAM W278	1.27	4.00	5.1	1.86
SRCPARAM W279	1.27	4.00	5.1	1.86
SRCPARAM W280	1.27	4.00	5.1	1.86
SRCPARAM W281	1.27	4.00	5.1	1.86
SRCPARAM W282	1.27	4.00	5.1	1.86
SRCPARAM E1	0.395	4.00	2.8	1.86
SRCPARAM E2	0.395	4.00	2.8	1.86
SRCPARAM E3	0.395	4.00	2.8	1.86
SRCPARAM E4	0.395	4.00	2.8	1.86
SRCPARAM E5	0.395	4.00	2.8	1.86
SRCPARAM E6	0.395	4.00	2.8	1.86
SRCPARAM E7	0.395	4.00	2.8	1.86
SRCPARAM E8	0.395	4.00	2.8	1.86
SRCPARAM E9	0.395	4.00	2.8	1.86
SRCPARAM E10	0.395	4.00	2.8	1.86
SRCPARAM E11	0.395	4.00	2.8	1.86
SRCPARAM E12	0.395	4.00	2.8	1.86
SRCPARAM E13	0.395	4.00	2.8	1.86
SRCPARAM E14	0.395	4.00	2.8	1.86
SRCPARAM E15	0.395	4.00	2.8	1.86
SRCPARAM E16	0.395	4.00	2.8	1.86
SRCPARAM E17	0.395	4.00	2.8	1.86
SRCPARAM E18	0.395	4.00	2.8	1.86
SRCPARAM E19	0.395	4.00	2.8	1.86
SRCPARAM E20	0.395	4.00	2.8	1.86
SRCPARAM E21	0.395	4.00	2.8	1.86
SRCPARAM E22	0.395	4.00	2.8	1.86
SRCPARAM E23	0.395	4.00	2.8	1.86
SRCPARAM E24	0.395	4.00	2.8	1.86
SRCPARAM E25	0.395	4.00	2.8	1.86
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SRCPARAM E27	0.395	4.00	2.8	1.86
SRCPARAM E28	0.395	4.00	2.8	1.86
SRCPARAM E29	0.395	4.00	2.8	1.86
SRCPARAM E30	0.395	4.00	2.8	1.86
SRCPARAM E31	0.395	4.00	2.8	1.86
SRCPARAM E32	0.395	4.00	2.8	1.86
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SRCPARAM E36	0.395	4.00	2.8	1.86
SRCPARAM E37	0.395	4.00	2.8	1.86
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SRCPARAM E39	0.395	4.00	2.8	1.86
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SRCPARAM E79	0.395	4.00	2.8	1.86
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SRCPARAM	E187	0.445	4.00	2.8	1.86
SRCPARAM	E188	0.445	4.00	2.8	1.86
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SRCPARAM	E202	0.445	4.00	2.8	1.86

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SRCPARAM F1	185	4.00	9.3	1.86
SRCPARAM F2	185	4.00	9.3	1.86
SRCPARAM F3	185	4.00	9.3	1.86
SRCPARAM F4	185	4.00	9.3	1.86
SRCPARAM F5	185	4.00	9.3	1.86
SRCPARAM F6	185	4.00	9.3	1.86
SRCPARAM F7	185	4.00	21.9	1.86
SRCPARAM F8	185	4.00	21.9	1.86
SRCPARAM F9	185	4.00	21.9	1.86
SRCPARAM F10	185	4.00	9.3	1.86
SRCPARAM F11	185	4.00	9.3	1.86
SRCPARAM F12	185	4.00	9.3	1.86
SRCPARAM F13	185	4.00	9.3	1.86
SRCPARAM F14	185	4.00	9.3	1.86
SRCPARAM F15	185	4.00	9.3	1.86
SRCPARAM F16	185	4.00	9.3	1.86
SRCPARAM A1	300	4.00	21.9	1.86
SRCPARAM A2	300	4.00	21.9	1.86
SRCPARAM A3	300	4.00	21.9	1.86
SRCPARAM A4	300	4.00	21.9	1.86
SRCPARAM A5	300	4.00	21.9	1.86
SRCPARAM A6	300	4.00	21.9	1.86
SRCPARAM A7	300	4.00	21.9	1.86
SRCPARAM A8	300	4.00	21.9	1.86
SRCPARAM A9	300	4.00	21.9	1.86
SRCPARAM A10	300	4.00	21.9	1.86

EMISUNIT 1.0E03 MILIGRAMS/SEC MICROGRAMS/M3

\*\* Emission factors

EMISFACT P1-P3	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P1-P3	HROFDY	0.9412	0.8824	0.6471	0.4118	0.2353	0.1765
EMISFACT P1-P3	HROFDY	0.1765	0.1765	0.1765	0.2353	0.2941	0.4118
EMISFACT P1-P3	HROFDY	0.5882	0.7059	0.8235	0.8824	0.9412	1.0000
EMISFACT P4-P6	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P4-P6	HROFDY	1.0000	0.9615	0.8846	0.8077	0.6923	0.6538
EMISFACT P4-P6	HROFDY	0.6538	0.6538	0.6538	0.6538	0.6538	0.6923
EMISFACT P4-P6	HROFDY	0.7308	0.7692	0.8077	0.8846	0.9615	1.0000
EMISFACT P7-P11	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P7-P11	HROFDY	0.8250	0.7500	0.5250	0.3750	0.2500	0.1250
EMISFACT P7-P11	HROFDY	0.1250	0.1250	0.1250	0.1250	0.1250	0.2500
EMISFACT P7-P11	HROFDY	0.3700	0.5000	0.6250	0.7500	0.8750	1.0000
EMISFACT P12-P16	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

EMISFACT P12-P16	HROFDY	0.9375	0.7500	0.6875	0.4375	0.3125	0.2500
EMISFACT P12-P16	HROFDY	0.1875	0.1875	0.1875	0.2500	0.3125	0.4375
EMISFACT P12-P16	HROFDY	0.5000	0.6250	0.7500	0.8125	0.9375	1.0000
EMISFACT P17-P21	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P17-P21	HROFDY	1.0000	0.9167	0.7500	0.5000	0.5000	0.5000
EMISFACT P17-P21	HROFDY	0.4167	0.4167	0.4167	0.4167	0.4167	0.5000
EMISFACT P17-P21	HROFDY	0.5000	0.5000	0.5833	0.6667	0.8333	1.0000
EMISFACT P22-P26	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P22-P26	HROFDY	1.0000	2.0000	2.5000	3.0000	3.5000	4.0000
EMISFACT P22-P26	HROFDY	5.0000	6.0000	7.0000	7.5000	8.5000	8.5000
EMISFACT P22-P26	HROFDY	9.0000	8.5000	8.0000	6.0000	4.5000	1.0000
EMISFACT P27-P159	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P27-P159	HROFDY	0.8000	0.6000	0.4667	0.3333	0.2000	0.1333
EMISFACT P27-P159	HROFDY	0.1333	0.1333	0.1333	0.2000	0.2667	0.3333
EMISFACT P27-P159	HROFDY	0.4667	0.5333	0.6000	0.6667	0.8000	1.0000
EMISFACT P160-P186	HROFDY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
EMISFACT P160-P186	HROFDY	1.0000	1.0000	2.0000	3.0000	4.0000	6.0000
EMISFACT P160-P186	HROFDY	8.0000	10.000	11.000	11.000	11.000	11.000
EMISFACT P160-P186	HROFDY	9.0000	6.0000	4.0000	3.0000	2.0000	1.0000
EMISFACT I1-I155	HROFDY	1.0000	1.0109	0.9509	0.9053	1.0958	0.9090
EMISFACT I1-I155	HROFDY	0.5328	0.2932	0.3770	0.4349	0.4951	0.4936
EMISFACT I1-I155	HROFDY	0.4917	0.4112	0.4976	0.4629	0.4285	0.3754
EMISFACT I1-I155	HROFDY	0.4428	0.4993	0.6097	0.7943	0.8258	0.8512
EMISFACT W1-W282	HROFDY	1.0000	1.0265	1.0328	1.0509	1.0722	0.8833
EMISFACT W1-W282	HROFDY	0.5542	0.4386	0.5513	0.6392	0.7459	0.6871
EMISFACT W1-W282	HROFDY	0.6279	0.7106	0.7782	0.7218	0.6653	0.4488
EMISFACT W1-W282	HROFDY	0.5706	0.6249	0.6879	0.7815	0.9293	0.9907
EMISFACT E1-E143	HROFDY	1.0000	0.9815	0.9811	1.0800	1.1724	0.7603
EMISFACT E1-E143	HROFDY	0.6711	0.6197	0.6107	0.6897	0.7826	0.8218
EMISFACT E1-E143	HROFDY	0.8662	0.7537	0.7484	0.6840	0.5850	0.4775
EMISFACT E1-E143	HROFDY	0.6376	0.6779	0.7246	0.7784	0.8573	1.0040
EMISFACT E144-E264	HROFDY	1.0000	0.9716	1.0119	1.0500	1.0142	0.8943
EMISFACT E144-E264	HROFDY	0.6095	0.4681	0.4035	0.5088	0.6628	0.5772
EMISFACT E144-E264	HROFDY	0.4911	0.6652	0.6256	0.6330	0.6502	0.4119
EMISFACT E144-E264	HROFDY	0.5606	0.6136	0.6690	0.7484	0.8576	1.0192
EMISFACT E265-E424	HROFDY	1.0000	0.9815	0.9811	1.0800	1.1724	0.7603
EMISFACT E265-E424	HROFDY	0.6711	0.6197	0.6107	0.6897	0.7826	0.8218
EMISFACT E265-E424	HROFDY	0.8662	0.7537	0.7484	0.6840	0.5850	0.4775
EMISFACT E265-E424	HROFDY	0.6376	0.6779	0.7246	0.7784	0.8573	1.0040
EMISFACT E425-E536	HROFDY	1.0000	0.9716	1.0119	1.0500	1.0142	0.8943
EMISFACT E425-E536	HROFDY	0.6095	0.4681	0.4035	0.5088	0.6628	0.5772
EMISFACT E425-E536	HROFDY	0.4911	0.6652	0.6256	0.6330	0.6502	0.4119
EMISFACT E425-E536	HROFDY	0.5606	0.6136	0.6690	0.7484	0.8576	1.0192
EMISFACT F1-F16	HROFDY	1.0000	0.9873	0.9873	0.9747	0.9494	0.8861
EMISFACT F1-F16	HROFDY	0.7722	0.6582	0.6709	0.6835	0.6962	0.6456
EMISFACT F1-F16	HROFDY	0.5696	0.4810	0.4810	0.4810	0.5696	0.6582
EMISFACT F1-F16	HROFDY	0.7468	0.8354	0.8861	0.9493	1.0127	1.0127
EMISFACT A1-A10	HROFDY	1.0000	1.0125	1.0375	1.0625	1.0875	0.9375
EMISFACT A1-A10	HROFDY	0.7125	0.4875	0.4375	0.3625	0.2750	0.2875
EMISFACT A1-A10	HROFDY	0.3125	0.3250	0.4125	0.5000	0.5375	0.5750
EMISFACT A1-A10	HROFDY	0.6125	0.6375	0.7125	0.8250	0.9375	0.9750

SRCGROUP ALL  
SO FINISHED

RE STARTING

DISCCART 1104 280 4.7

DISCCART 1179 457 4.7

RE FINISHED

ME STARTING

INPUTFIL watt04c4.ASC

ANEMHGT 10 METERS

SURFDATA 13891 2004 KNOXVILLE

UAIRDATA 13897 2004 NASHVILLE

ME FINISHED

OU STARTING

RECTABLE ALLAVE FIRST

MAXTABLE ALLAVE 120000

\*\* DAYTABLE 01

\*\* POSTFILE 01 ALL PLOT PM01T.PLT

\*\* PLOTFILE 01 ALL FIRST PM01F.OUT

OU FINISHED

## VITA

Guenet Tilahun Indale received her Bachelor of Science Degree in Civil Engineering in July 1997 from Addis Ababa University, Addis Ababa, Ethiopia. She then worked as a structural engineer in Ethiopia. She won a Swedish International Development Agency (SIDA) scholarship in September 1999 to do her Masters degree in Stockholm Sweden. She received her Masters of Science degree in Environmental Engineering and Sustainable Infrastructure in March 2001 from The Royal Institute of Technology , Stockholm, Sweden. The same year she started her Ph.D. study at the University of Tennessee. During her stay at the University of Tennessee she has been involved in various research works involving on-road and off-road mobile sources, air quality modeling, mobile sources inventory and air sampling works. She also worked as a graduate teaching assistant. She has been one of the founder members of Air and Waste Management Association (A&WMA) student chapter at the University of Tennessee and served as a secretary of the student chapter. In 2005 she completed requirements for Ph.D. degree in Civil Engineering with concentration in Environmental Engineering (Air Quality).