# EMISSIONS DATA FROM TWO TUNNEL VENTILATED HIGH-RISE LAYER HOUSES IN NORTH CAROLINA

**Final Report for Site NC2B**

**of the**

**National Air Emissions Monitoring Study**

**Submitted to**

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# 1. INTRODUCTION AND OBJECTIVES

The primary goals of the National Air Emissions Monitoring Study (NAEMS) were to: 1) quantify aerial pollutant emissions from dairy, pork, egg, and broiler production facilities, 2) provide reliable data for developing and validating emissions models for livestock and poultry production and for comparison with government regulatory thresholds, and 3) promote a national consensus on methods and procedures for measuring emissions from livestock operations. Emissions measurements were conducted at a total of 15 different house monitoring sites and ten open source sites in the continental US.

The NAEMS was managed by Purdue University, in its role as Independent Research Contractor to the Agricultural Air Research Council. Purdue selected equipment and methods in consultation with the U.S. EPA, and subcontracted with other universities to operate the monitoring sites. North Carolina State University (NCSU) installed, maintained and calibrated equipment, collected samples, and conducted all other on-site activities. Purdue provided rapid feedback (generally within 2-4 business days) to catch aberrations in the data, and later conducted final processing of the data. Both NCSU and Purdue participated in reviews of the analyzed data.

The overall objective of this report is to present the quality-assured measurements of ammonia ($NH_3$), hydrogen sulfide ($H_2S$), particulate matter (PM) and volatile organic compounds (VOCs) from two layer houses at the North Carolina egg layer facility. The specific objectives of the report are to:

1. Describe the farm, and the monitored buildings,
2. Describe the monitoring methods and quality assurance, and
3. Present tabulated daily averages of emissions.

# 2. CONFINED ANIMAL FEEDING OPERATION

## 2.1. Farm

This North Carolina egg layer facility (NC2B) consisted of six high rise houses with a total capacity of 618,000 hens, three natural ventilated houses, and an egg processing plant (Figure 1). There was one small swine farm and one small broiler production facility within 3.2 km of the site. Wastewater application fields were directly adjacent to the site, while the closest fields receiving actual solid manure from the farm were approximately 6.4 km away.

The high rise houses were mechanically ventilated under the control of a computerized environmental control system. Birds were raised in low-density conditions per industry standards. A corn soy based diet was delivered to the birds in a trough at the front of the cages. Manure fell onto the curtain backed cages and then down into the first floor, where it was stored for up to one year.

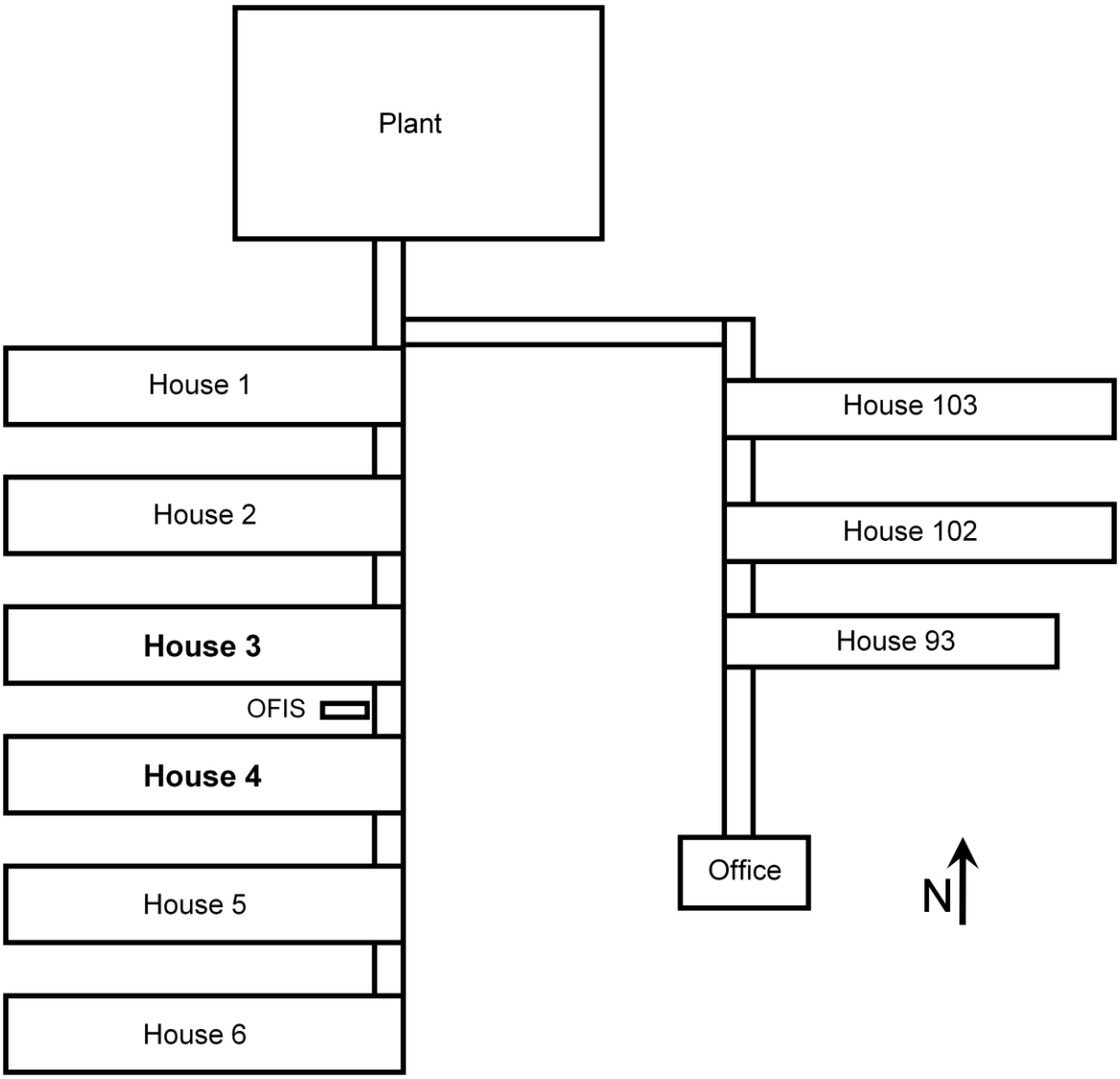


**Figure 1. Facility layout. Monitored buildings were houses 3 and 4.**

## 2.2. Monitored Buildings

Houses 3 and 4 (H3 and H4) were oriented north-south with 15.2 m spacing between them. (Figure 2). Each high-rise house was 175 m x 18 m, and contained 103,000 hens each in six rows of 4-tier A-frame cages in the upper floor. Each house had a sidewall height of 5.5 m and a first floor manure pit depth of 2.7 m.

Hens were raised in low-density conditions (150 $cm^2$/bird), and were molted according to standard industry practice. The producer weighed approximately 0.1% of the birds once every four weeks for an overall house average weight. During molting, the producer weighed the same birds on days 0, 4, 10, 12, 15, and 22.

Hens were fed a corn/soy ration, with extra ingredients (crab meal, cookie meal, etc) added based on availability. Eggs were removed on conveyors. Egg production and water consumption were

automatically recorded daily, and feed consumption was checked daily via continuous monitoring using load cells under the feed bins.

The second floor lights were shut off for 6-7 h each night. A standby generator was used to power critical systems during power outages. Each house was tunnel ventilated. Ventilation air entered the second floor through 36.5 m long air inlets that were centered on the east and west sides of the house. There were also eave inlets that admitted ventilation air during the winter. Finally, there were small openings that allowed air exchange from the outside into the pit. One of these openings was located on each sidewall, centered below the main inlets to the first floor. Each house had thirty-four, 122-cm diameter, 480-VAC, 3-phase, belt-driven exhaust fans (Choretime, Milford, IN) located on the east and west endwalls, with a spacing of 20 cm. Each endwall had eight fans in the second floor, and nine fans in the first floor. Each house had eight temperature sensors, and was ventilated in 11 stages.

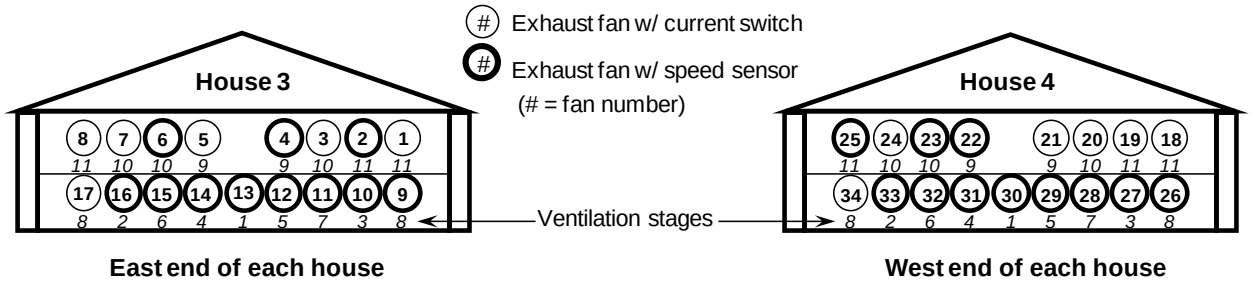


**Figure 2. Relay assignments to fans. Fan and relay numbers on outside and inside, respectively.**

**Table 1. Fan numbers and stages. Bold type denotes fans activated at each stage.**

| Stage | Qty | Fan ID |
|---|---|---|
| 1 | 2 | 13, 30 |
| 2 | 2+2=4 | 13, **16**, 30, **33** |
| 3 | 4+2=6 | **10**, 13, 16, **27**, 30, 33 |
| 4 | 6+2=8 | 10, 13, **14**, 16, 27, 30, **31**, 33 |
| 5 | 8+2=10 | 10, **12**, 13, 14, 16, 27, **29**, 30, 31, 33 |
| 6 | 10+2=12 | 10, 12, 13, 14, **15**, 16, 27, 29, 30, 31, **32**, 33 |
| 7 | 12+2=14 | 10, **11**, 12, 13, 14, 15, 16, 27, **28**, 29, 30, 31, 32, 33 |
| 8 | 14+4=18 | **9**, 10, 11, 12, 13, 14, 15, 16, **17**, **26**, 27, 28, 29, 30, 31, 32, 33, **34** |
| 9 | 18+4=22 | **4**, **5**, 9, 10, 11, 12, 13, 14, 15, 16, 17, **21**, **22**, 26, 27, 28, 29, 30, 31, 32, 33, 34 |
| 10 | 22+6=28 | **3**, 4, 5, **6**, **7**, 9, 10, 11, 12, 13, 14, 15, 16, 17, **20**, 21, 22, **23**, **24**, 26, 27, 28, 29, 30, 31, 32, 33, 34 |
| 11 | 28+6=34 | **1**, **2**, 3, 4, 5, 6, 7, **8**, 9, 10, 11, 12, 13, 14, 15, 16, 17, **18**, **19**, 20, 21, 22, 23, 24, **25**, 26, 27, 28, 29, 30, 31, 32, 33, 34 |

Manure fell onto the curtain backed cages and then down into the first floor, where it was stored for up to one year and dried with 21 recirculation fans in the pit. It took several months to load

out of 750,000 kg of manure through the load-out doors located on the sidewalls between houses 3 and 4. The front door was located about 45.7 m from the front of the house.

### 2.3. Significant Events and Modifications

The animal management and genetics for houses 3 and 4 remained the same during the study.

Several 2-5 min long farm power outages occurred on 10/18/07.

All ceiling-mounted manure drying fans were connected to fan stage 4 on 3/26/08. The fan staging in H3 was modified on 4/9/08. Fan belt replacement activities for all houses began on 5/21/09.

The manure was cleaned out from each house three times during the monitoring period. House 3 was cleaned out March 9-14, 2008, March 21-26, 2009 and July 21-27, 2009. House 4 was cleaned out March 8-13, 2008 and March 19-24, 2009 and July 21-27, 2009. These activities caused abnormally high inlet PM concentration measurements because of the proximity of the Beta Gauge monitor to the manure loadout activity.

## 3. MONITORING AND SAMPLING METHODS

### 3.1. General Approach

Equipment installation and preliminary testing began on 5/21/07 and was completed on 9/25/07. The site setup and equipment installation followed approved site monitoring plan, a quality assurance project plan, and instrument or method-specific standard operating procedures.

The monitoring period began on 9/25/07 and concluded on 9/30/09. Target pollutants for this site were $NH_3$, $H_2S$, PM ($PM_{10}$, TSP, and $PM_{2.5}$), and VOC. Appendix A lists the target pollutants, and all measured supporting variables and metadata monitored at the site. The monitoring schemes for the two structures are shown in Figures 3 and 4**Error! Reference source not ound.**. Table 2 lists the major equipment used at site NC2B, including the model, manufacturer and instrument specifications.

A total of 220 and 116 visits were made by NCSU personnel during years 1 and 2 of the monitoring period. Remote checking via the internet was conducted by the NCSU and/or Purdue on a near-daily basis.

The Science Advisor audited the site on 9/11/07 and 1/5/09. The Environmental Protection Agency (EPA) conducted site audits on 10/28/08 and 9/24/09.

### 3.2. Instrument Shelter

The on-farm instrument shelter (OFIS) was located between houses 3 and 4 towards the east ends of the houses. Heated raceways were used to connect the OFIS with each house, to avoid condensation in the sampling tubing where it was exposed to inlet temperatures. The raceway temperatures were monitored continuously.

**Table 2. Major instrumentation.**

| Analyzer/Instrument | Serial number |
|---|---|
| INNOVA 1412 Multi-gas analyzer | 710-197 |
| TEI 450i H2S analyzer | 709220676 |
| Environics 4040 dilutor | 2922 |
| TEOM 1 (house 1) | 26512 |
| TEOM 2 (house 2) | 26370 |
| TEI FH 62C14 (Beta Gauge) | E-1275 |

The OFIS was supplied with 3-wire, single-phase, 120/240-volt, 100 A at 240 V power by the farm and connected to the external pullout switch at the OFIS. A copper ground rod was installed at the location of the OFIS and connected to the OFIS ground. The HVAC system of the OFIS maintained inside temperatures within the operating range of the analyzers, and created a positive pressure with a filtered outside air intake to minimize entry of unfiltered outside air. The temperature and differential static pressure in the OFIS were monitored with a thermocouple near the instrument rack and a pressure sensor. One set of gas analyzers (Table 2) in the OFIS measured gas concentrations as the gas sampling system (GSS) sequenced through all the gas sampling locations (GSLs). Vacuum pumps and controllers for the PM monitors were located in the OFIS. A personal computer collected all site monitoring data using a data acquisition and control program AirDAC.

### 3.3. Data Acquisition and Control System

The data acquisition and control system consisted of a personal computer, custom software (AirDAC) written in a commercial programming language (LabVIEW, National Instruments, Austin, TX), distributed I/O hardware (National Instruments FieldPoint modules), and Universal Serial Bus (USB) devices by National Instrument (NI) and Measurement Computing (MC,, Norton, MA). The NI FieldPoint (FP) modules and MC USB devices (Table 3) were selected and configured to acquire data for all the on-line measurement variables (Appendix A).

The 16-channel NI FP-DO-401 digital output module was used to control: 1) sequential switching of multiple gas sampling lines, 2) the raceway heating system, and 3) the GSS cooling fan. Serial communication (RS232) was used to acquire data from the multi-gas monitor and calibration variables (calibration time, gas concentration, etc.) from the gas dilutor. Voltage or current analog signals from various analyzers and sensors were connected to FP-AI-112 modules. Type T thermocouples were connected to FP-TC-120 modules. Digital signals from current switches and relays were connected to the MC USB DIO96H device. Voltage pulses from proximity sensors used to measure fan rotational speed were detected by the MC USB 4303 Counter.

AirDAC averaged the signals (after conversion to engineering units) over 15-s and 60-s intervals and recorded the means into two separate computer files. All real-time data were displayed in tabular and graphic forms for on-site or remote (pcAnywhere, Symantec, Mountain View, CA) viewing (Ni et al., 2009; Ni and Heber, 2010). Measurement alarms, data collection notifications, data files, graphs and statistics of the daily data sets, and modified configuration and fieldnote files were automatically emailed to several recipients after midnight.

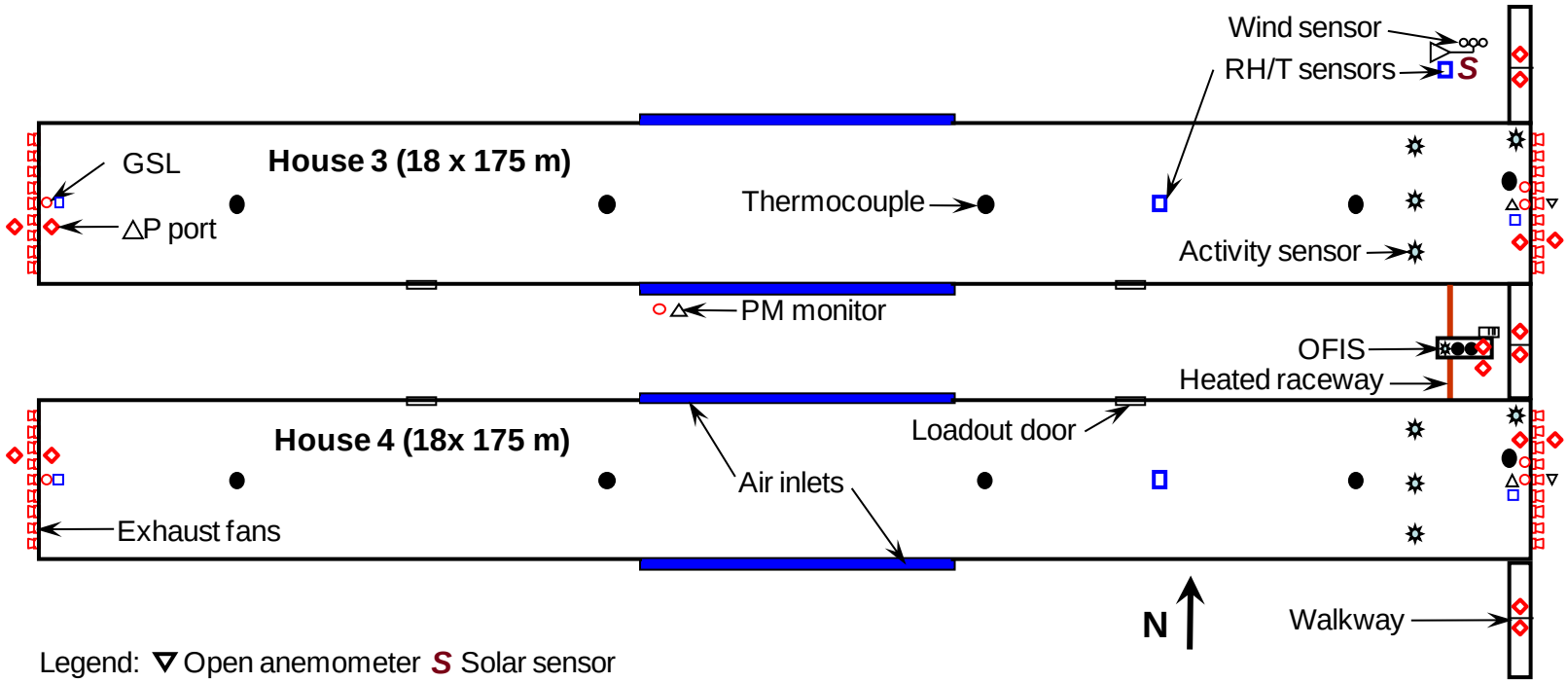


**Figure 3. Overhead view of sensor and air sampling locations at the monitoring site.**

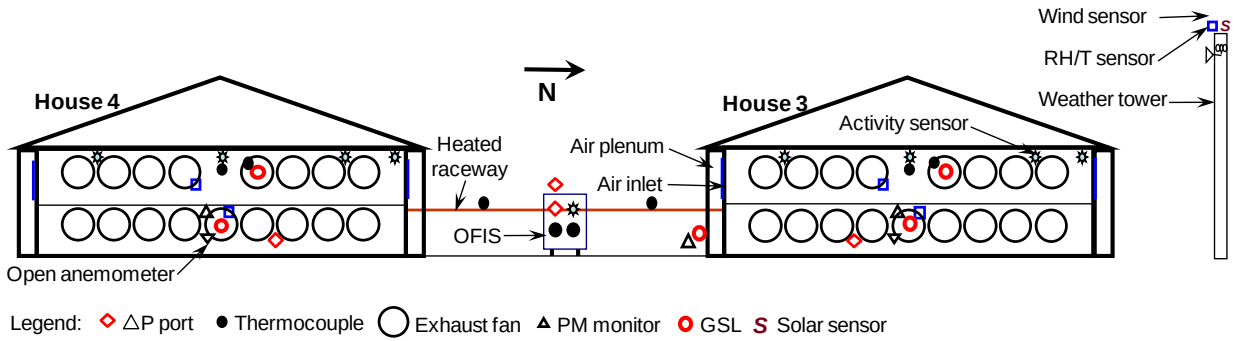


**Figure 4. End view of monitoring plan for continuous emission testing at houses 3 and 4.**

**Table 3. Data acquisition hardware configuration for NC2B.**

| Manufacturer and model | I/O type | # units | # channels/unit | Notes |
|---|---|---|---|---|
| NI FP-AI-112 | Analog input | 4 | 16 | Single-ended, 16-bit |
| NI FP-TC-120 | Thermocouple | 2 | 8 | |
| NI FP-DO-401 | Digital output | 1 | 16 | 2 A at 10-30 VDC |
| MC USB 4303 counter | Count input | 5 | 10 | |
| MC USB DIO 96H | Digital input | 1 | 96 | |

## 3.4. Monitoring and Recording Farm and Building Operation

### *3.4.1. Animal Husbandry and Building Systems*

Infrared motion sensors (activity sensors) were located to monitor movement of birds and workers in the house, with a total of four such sensors positioned in each house. An activity sensor was used to monitor researcher activity in the OFIS.

Weekly layer inventories, egg production, feed and water consumption, egg production and characteristics and bird mass data were collected from the farm's computer system. Layer inventories and weight were verified quarterly by the the site personnel.

### *3.4.2. Thermal Environmental*

Weather data was collected using a solar radiation shielded capacitance-type relative humidity and temperature probe (RH/T) (Model RHT-WM, Novus Automation, Porto Alegre, Brazil), a pyranometer (Model LI-200SL, LI-COR, Lincoln, NE) and a cup anemometer (Wind Sentry, RM Young, Traverse City, MI), which were attached to a 10-m high tower placed between houses 2 and 3.

For the house environment conditions, capacitance-type RH/T probes were located at the PREFs (fan 13 in each house), and in one cage of each house. The cage probe was placed in the east half of the house, approximately centered, in an empty. Thermocouples (TC) were used to measure temperatures at four locations in the center of the house, one gas-sampling point (fan 4) in each house, the heated raceways, the OFIS itself, and the instrument rack.

### *3.4.3. Building Airflow*

Fan rotational speed and operation was monitored using a magnetic Hall-effect sensor (speed sensor) or current switches to monitor the on/off status of a fan based on its current draw. The speed sensors were mounted to detect the rotational speed in revolutions per minute (rpm) of either the fan shaft or the fan pulley. The digital signal from the speed sensor was converted into a frequency measurement with a counter module in the data acquisition system.

Each fan already had a speed sensor that provided a 0-5 VDC signal to the farm's environmental control computer; however, these sensors could not be interfaced to the DAC system in the OFIS. Therefore, a second speed sensor (Cherry Sensors, Model MP100701) was installed on fans 13 and 30 in each house, and on two fans of each higher fan stage (stages 2-11). Current switches monitored the on/off status of the other fans.

Static pressure differences were measured across the west and east endwalls of each house with differential static pressure sensors (Model 260, Setra Systems, Boxborough, MA). Static pressure differences were also measured across the walls through which the egg conveyor traveled between houses 2 and 3, 3 and 4 and 4 and 5.The outside port was located against the outside wall near the ventilation fans of the east wall. Static pressure in the OFIS was measured with the same type of sensor, to ensure that positive pressure was maintained.

Impeller anemometers (Model 27106RS, RM Young, Traverse City, MI) were installed on the outlet of each of the PREFs (one per house).

*In-situ* airflow measurements were conducted with a 122-cm field-portable fan tester (Fan Assessment Numeration System or FANS, University of Kentucky, Lexington, KY), which was described by Gates et al. (2004). The field data was used to develop equations that would calculate airflow as a function of differential pressure and fan rotational speed, and to assess the uncertainty in airflow predictions.

A total of 196 in-situ fan tests with three replications were conducted during November 2007, June and July 2008 and July 2009. Each fan was tested at least once during the four testing periods. In November 2007, 100% of the fans in houses 3 and 4 were tested. In June 2008, 65% of the fans were tested, and in July 2009, 97% fans were tested. In July 2008, three selected fans were tested to measure air flow rates under three static pressure settings to determine the field-measured fan curves as compared with published fan curves.

The airflow curves of the all fans (Model 38264-4822, Chore-Time, Milford, IN) were obtained from the Bioenvironmental and Structural Systems (BESS) Lab at the University of Illinois at Urbana-Champaign (BESS, 2003; BESS, 2004). Each performance record consisted of airflow (Q1) measured at several static pressures (P1), and at a relatively constant speed (N1 = 600).

The BESS fan curve was adjusted to the mean speed of the fan tests (N2), which was 570 rpm. The new, speed-indexed baseline curves were derived using the first ($Q_2 = Q_1(N_2/N_1)$) and second ($\Delta P_2 = \Delta P_1(N_2/N_1)^{0.5}$) fan laws, where $Q_2$ is the speed-adjusted BESS fan curve at speed $N_2$. The speed-corrected airflow prediction model is $Q_4 = (a\Delta P_4 + b)\cdot(N_4/N_2)\cdot Q_2$, where $\Delta P_4$ and $N_4$ are measured fan static pressure and speed. For a given test using the portable tester, the model is $Q_4 = (a\cdot\Delta P_3 + b)\cdot(N_3/N_2)\cdot Q_2$, where $\Delta P_3$ and $N_3$ are the measured fan static pressure and speed during the fan test, and the fan degradation factor $k = a\cdot\Delta P_3 + b$. The values for the coefficients a and b were those which minimized the sum of square differences between $Q_4$ and $Q_3$ for all the valid fan tests within a speed regime. The resulting fan model is shown in Table 4.

Fans were assigned to a sampling stream based on their proximity to the three sampling locations in each house. For each house, fans 1 through 8 constituted stream 1, fans 18-34 made up stream 2, and stream 3 was fans 9 to 17. The airflow for each stream was calculated by summing the individual airflows for all fans in the stream.

### *3.4.4. Biomaterials Sampling Methods and Schedule*

All analyses of biomaterials were performed by an independent laboratory (Midwest Laboratories, Omaha, NE).Water was evaluated based on total N analysis of two samples collected on 1/16/08.

**Table 4. Fan airflow model.**

| Reference speed ($N_2$) | Polynomial coefficients of $Q_2=f(\Delta P_2)$ at speed $N_2$ | | | | Coefficients of k | |
|---|---|---|---|---|---|---|
| | a3 | a2 | a1 | a0 | b1 | b0 |
| 570 | 1.38E-05 | 4.86E-04 | 6.09E-02 | 1.10E+01 | 3.94E-03 | 0.825 |

Manure surfaces were sampled from 1/16/08 to 8/13/09 (Table F1) to determine pH, moisture content and total ammoniacal nitrogen. There were 6 manure "windrows" in each house on the first floor. Each windrow was 166-m long. A block random sampling procedure was used to take the manure surface samples. Each windrow was divided into 68, 2.44-m long sections for a total of 408 sections per house. The computer program randomly selected 40 numbers representing 40 sections to be sampled. Forty samples of approximately equal weight was randomly collected from each section. The 40 samples were mixed thoroughly and 12 to 15 samples (about ½ kg each) were taken from the mixture and sent to the lab for analysis. A total of 188 samples were analyzed.

Loadout manure was sampled during each full cleanout of the houses and were analyzed for pH, moisture content, total N, and ammoniacal N. During cleanout, 12 random samples per house were taken from either the truck or the skid loader. The volume of manure removed from each house was documented by the producer.

## 3.5. Particulate Matter Monitoring

Real-time PM monitors (TEOM Model 1400a, Thermo Fisher Scientific, Waltham, MA) were located immediately upstream of fan 13 to continuously measure exhaust PM (Figure 4). Fan 13 in each house was referred to as the primary representative exhaust fan (PREF).

A beta attenuation PM monitor (Beta Gauge Model FH62C-14, Thermo Fisher Scientific, Franklin, MA) continuously measured house inlet PM concentration. The Beta Gauge was enclosed in a protective outdoor enclosure and located at the inlet gas-sampling location near the SW corner of house 3 (Figure 4), near the ventilation air inlets.

At any one time, the sampled PM size class was either $PM_{10}$, $PM_{2.5}$ or TSP at both TEOMs and the Beta Gauge. The $PM_{2.5}$ size class was measured in January-February, 2008, October, 2008 and July-August, 2009 for 6 to 19 d each time (Table 5). The TSP inlet heads were placed on the TEOMs and Beta-Gauge for nine, 5 to 16 d periods. The $PM_{10}$ concentration was measured at all other times.

## 3.6. Continuous Gas Sampling and Monitoring

Air samples for continuous gas measurements were collected from multiple gas sampling probes with a custom-designed GSS. Each probe was connected to the GSS with Teflon tubing. Tubular raceways between the OFIS and the monitored buildings protected the sampling lines and data

signal cables. The sampling lines were wrapped with insulation and heated inside the raceways and at other locations vulnerable to cold air to prevent condensation inside the tubes.
Three gas sampling probes were placed in each house, 0.5 m in front of the exhaust fans at a height equal to the fan hubs (Figure 4). Gas sampling probes A and B were located in front of the inlets of stage 1 fans 13 and 30 the east and west ends of the houses on the first floor. Sampling probe C was located in front of stage 9 fan 4 on the east end of the house on the second floor (Figure 4). The inlet air was sampled near the house 3's SW corner, 2 m from the south wall and 2 m from the west end (Figure 4).

Each exhaust location was sampled individually for 10 min. The ventilation inlet location was monitored at least twice daily, originally with a 20-min sampling period. In January, 2008, gas concentration data at each sampling location was studied to determine whether equilibrium occurred within the sampling periods. A statistical analysis confirmed that 10 min was sufficient for the exhaust GSLs, but that 30 min was required for the house inlet. The inlet sampling period was therefore increased from 20 to 30 min on 1/28/08.

One set of gas analyzers in the OFIS was used to sequence through all the GSLs. Hydrogen sulfide was measured with a fluorescence $H_2S$ analyzer (TE Model 450C, Thermo Fisher Scientific, Waltham, MA). Concentrations of $NH_3$ and $CO_2$ were measured with a photoacoustic infrared multi-gas monitor (INNOVA Model 1412, LumaSense Technologies A/S, Ballerup, Denmark).

### 3.7. VOC Sampling and Analysis

Grab samples of VOC were collected at fan 13 on the first floor and fan 4 on the second floor in house 4 (Table 3), using methodology based on methods TO-15 and TO-16. Sampling was conducted with 6-L stainless-steel canisters (TO-Can, Restek Corp, Bellefonte, PA), equipped with ¼″ bellows valves (Swagelok SS4H) and 207-kPa vacuum gauges. Sampling trains contained flow controllers (Veriflo Model 423XL, Parker-Hannifin Corp., Richmond, CA) with 2- to 4-sccm critical orifices and 7-µm in-line stainless steel filters. Flow controllers were pre-set to a constant flow rate of 3.4 mL/min. Canister sampling was conducted for 24 h, and canister pressures were recorded at the beginning and end of the sampling periods for the calculation of total sample volumes. Sampling was conducted seven times between 4/12/09 and 9/18/09, with duplicate samples typically collected at each location. All canisters were cleaned and passed QC before sample collection.

Canister samples were analyzed at Purdue University's Trace Contaminant Laboratory. The canisters were pressurized to +207 kPa with ultrapure N2, and transferred to TDS tubes (Carbotrap 300, Supelco, Bellefonte, PA). The pressurized canisters initially yielded sample flows of 50 mL $min^{-1}$ during sample transfer to tubes. Canister heating was introduced when a canister pressure decreased to 13.8 kPa to ensure maximal transfer of nonvolatile components. Samples were analyzed on a thermodesorption-gas chromatograph-mass spectrometer (TDS-GC-MS), consisting of a gas chromatograph (Model 6890, Agilent Technologies, Palo Alto, CA) coupled with a Model 5795 mass spectrometer detector (Agilent Model 5795) and equipped with a thermal desorption system (Model TDS-G, Gerstel, Baltimore, MD) and a cooled injection system (Gerstel CIS). The GC-MS passed a leak check prior to analyzing each set of samples. Compounds were separated on a 60 m x 0.25 mm x 1µm column. The detector utilized the full

**Table 5. Sampling schedule for $PM_{10}$, TSP and $PM_{2.5}$.**

| Time and day, hr:min-m/d/y | | Test duration, d | | |
|---|---|---|---|---|
| **Start** | **Stop** | **PM10** | **TSP** | **PM2.5** |
| 9/24/2007 | 1/16/08 | 114.5 | | |
| 1/16/08 | 2/4/08 | | | 18.9 |
| 2/4/08 | 3/26008 | 51.1 | | |
| 3/26/08 | 4/4/08 | | 9.1 | |
| 4/4/08 | 5/12/08 | 37.9 | | |
| 5/12/08 | 5/28/08 | | 16.0 | |
| 5/28/08 | 8/7/08 | 71.1 | | |
| 8/7/08 | 8/21/08 | | 14.0 | |
| 8/21/08 | 9/11/08 | | 20.9** | |
| 8/21/08 | 9/11/08 | 20.9* | | |
| 9/11/08 | 10/17/08 | 36.0 | | |
| 10/17/08 | 10/23/08 | | 5.8 | |
| 10/23/08 | 10/24/08 | 0.9 | | |
| 10/24/08 | 10/30/08 | | | 6.0 |
| 10/30/08 | 1/9/09 | 71.2 | | |
| 1/9/09 | 1/15/09 | | 5.8 | |
| 1/15/09 | 2/26/09 | 42.0 | | |
| 2/26/09 | 2/27/09 | 1§ | | |
| 2/27/09 | 3/4/09 | | 4.9§ | |
| 3/4/09 | 4/2/09 | 28.9§§ | | |
| 4/2/09 | 4/10/09 | | 8.0 | |
| 4/10/09 | 6/4/09 | 55.1 | | |
| 6/4/09 | 6/11/09 | | 7.0 | |
| 6/11/09 | 7/24/09 | 43.0 | | |
| 7/24/09 | 8/6/09 | | | 12.8 |
| 8/6/09 | 8/17/09 | | | 10.9** |
| 8/6/09 | 8/7/09 | 1.0† | | |
| 8/7/09 | 8/17/09 | 10.2* | | |
| 8/17/09 | 8/20/09 | 2.9 | | |
| 8/20/09 | 8/27/09 | | 6.8 | |
| 8/27/09 | 9/15/09 | 19.2 | | |
| 9/15/09 | 10/6/09 | 20.9* | | |
| 9/15/09 | 9/22/09 | | 6.8** | |
| 9/22/09 | 10/6/09 | 14.2** | | |
| Totals | | 628 | 98 | 49 |

*All except inlet

**Only inlet

†Only H4 upstairs

‡All except H3

§H4 TEOM collocated with H3

§§H3 TEOM relocated to H4 upstairs

scan mode covering masses from 27-270 Daltons in 8 scans/s. The MS quad hold temperature was 150ºC, and the MS source hold temperature was 230ºC. The analytical results were analyzed by ChemStation, and all integrations were manually checked. This method used an external standard compound for instrument monitoring and QA to avoid losses of low-molecular-weight analytes that would occur when purging solvent used with internal standard(s). All TDS tubes were cleaned with a tube conditioning system (Gerstel TC-2 TDS) for 3.5 h at 350ºC prior to each use.

**Table 6. Analyte sampling locations.**

| Analyte | House | Sampling location* | Qty |
|---|---|---|---|
| **$NH_3$** | 3, 4 | GSL-A: fan 13, east end | 2 |
| **$H_2S$** | 3, 4 | GSL-B: fan 30, west end | 2 |
| **$CO_2$** | 3, 4 | GSL-C: fan 4, east end | 2 |
| | 3, 4 | **INLET:** 2 m from south wall, and 2 m from west end of air inlet of | 1 |
| **$PM_{2.5}$** | 3, 4 | Fan 13, east end, underneath egg conveyor belt | 1 |
| **$PM_{10}$** | 3, 4 | **INLET:** Beta Gauge 2 m from south wall, and 2 m from west end | 1 |
| **VOC** | 4 | Same as GSL A (upstairs) | 2 |
| | 4 | Same as GSL C (downstairs) | 2 |

*Gas sampling probes were located at fan hub height, suspended from the ceiling.

Response curves were generated at both the beginning and the end of the VOC analysis period. The response curves of all chemical standards reach good linearity as 55% of the response curves had $R^2 > 99\%$ and over 98% had $R^2 > 95\%$. Toluene was used as an external standard that was analyzed during each batch of samples to assure quality. The relative bias and standard deviation of 97 toluene checks were -4.3% and 18.8%, respectively. The uncertainty of the mean of duplicate field samples was calculated as 27%, based on the toluene checks.

## 3.8. Documentation of Quality Assurance

### *3.8.1. Oversight, Maintenance, and Calibration*

North Carolina State University personnel visited the site frequently during the first few months of the study; that frequency declined as site operation became more routine. A total of 220 and 116 visits were made during years 1 and 2 of the monitoring period.

The NAEMS Science Advisor audited the site on 9/11/07 and 1/5/09. The Environmental Protection Agency (EPA) conducted site audits on 10/28/08 and 10/24/09.

Various site maintenance and calibration activities were conducted by site personnel (Appendix B). Specific quality assurance tests of the GSS, gas analyzers and other sensors are discussed below.

### *3.8.2. Gas Sampling System*

Two types of GSS leak tests were conducted. The first test examined GSS integrity, by briefly creating a “dead head” against the pump by closing all solenoid valves, while measuring exhaust airflow with a portable rotameter, and recording the leakage flow with the GSS mass flow meter. The second test consisted of monitoring GSS flow and pressure after manually setting AirDAC to sample from a particular GSL and plugging the GSL’s gas sampling probe, which created a

GSS manifold vacuum of about -75,000 Pa or 0.26 atm. Preliminary tests indicated that GSS flows under dead-head conditions that were 10% or less (<0.45 L/min) of the normal GSS flow rate of 4.5 L/min was indicative of leak-free operation under normal GSS manifold vacuums of -5,100 to -9,700 Pa (0.90-0.95 atm). Leak tests of the GSS were conducted on 09/24/2007 and 11/15-11/19/2007. The dead-head leakage flows were always significantly less than the 0.45 L/min threshold. Systematic checking of individual sampling lines was conducted on on 9/24/2007 while checks of some lines were conducted more frequently. Data was only invalidated when leaks occurred away from the sampling location. If gas sampling probe filter maintenance eliminated a leak, no data was invalidated since leakage air would be the same as sampled air.

### *3.8.3. Gas Analyzers*

Gas measurements were evaluated using multipoint calibrations and zero and span checks (Appendix C). The gas concentration data output by the analyzers was adjusted to correct for bias introduced by the gas sampling and measurement system.

#### *3.8.3.1.Correction of Ammonia Concentration*

A multipoint calibration (MPC) was conducted through the challenge line seven times using purified air (Cat. # AIO.OCE-T, CEM zero-grade, Praxair, Indianapolis, IN) and three (typical) span concentrations of $NH_3$ (Cat. # NI-AM5MP-AS, Praxair Primary Standard). The $NH_3$ was delivered using a 6-port gas dilutor (Model 4040, Environics, Tolland, CT). The $R^2$ values of each MPC exceeded 0.99, indicating linearity of instrument response to standard gas between 0 and 80 ppm(Table 7).

**Table 7. Multipoint calibration record and results for the NH3 measurements.**

| Date | # of points | Span concentration, ppm | | R2 |
|---|---|---|---|---|
| | | Minimum | Maximum | |
| 9/10/07 | 4 | 0 | 60 | 0.999 |
| 3/12/08 | 5 | 0 | 80 | 0.999 |
| 3/19/08 | 5 | 0 | 80 | 0.999 |
| 11/14/08 | 5 | 0 | 80 | 0.999 |
| 1/23/09 | 5 | 0 | 50 | 0.999 |
| 3/26/09 | 5 | 0 | 80 | 0.999 |
| 8/20/09 | 5 | 0 | 80 | 0.999 |

Precision checks were conducted periodically using zero and span gases (Z/S checks), delivered via the dilutor through the challenge line, and responses were recorded to monitor changes in system performance over time. Span checks prior to and after 9/10/07 were conducted with 20 and 80 ppm, respectively. A concentration of 40 ppm was used on 4/02/09 and 10/20/09 (Appendix C).

The average response of the analyzer to the zero and span gas applications was assessed, and the results were combined based on changes to the instrument or gas sampling system to create linear correction models (Table 8). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table ).

*3.8.3.2.Correction of Hydrogen Sulfide Concentration*

A MPC was conducted through the challenge line ten times using purified air (Cat. #-AIO.OCE-T, Praxair CEM zero air) and typically four span concentrations (Cat. # NI-HSR1E-AS, Praxair EPA Protocol Standard). Each MPC was conducted with replication (Table 9). The $H_2S$ was delivered using a 6-port dilutor (Model 040, Environics, Tolland, CT). The $R^2$ values of each MPC exceeded 0.999, indicating excellent linearity of instrument response to standard gas between 0 and 10,000 ppb (Table 9).

Precision checks were conducted periodically (Table 10) using zero gas and a span gas (z/s checks), and responses were recorded in control chart format to monitor changes in system performance over time. Span checks of $H_2S$ were conducted with 220, 440, 2000, or 4000 ppb span gas, delivered via the dilutor through the challenge line. The analyzer response to the zero and span precision checks is shown graphically in Appendix D, and summarized in

Table 10.

**Table 8. Concentration correction and measurement accuracy for $NH_3$.**

| Start/end dates | # of checks | | Linear model | Accuracy, % of span | | | |
|---|---|---|---|---|---|---|---|
| | | | | Bias | | Precision | |
| | Zero | Span | | z | s | z | s |
| 9/20/07-11/19/07 | 3 | 3 | y = 1.14x – 0.06 | 0.0 | 0.0 | 1.0 | 3.3 |
| 11/28/07-1/4/08 | 7 | 7 | y = 1.10x – 1.15 | 0.0 | 0.0 | 0.2 | 3.1 |
| 3/19/08-10/10/08 | 26 | 26 | y = 1.05x – 0.39 | 0.0 | 0.0 | 0.2 | 2.4 |
| 11/13/08-1/16/09 | 6 | 5 | y = 1.04x – 0.87 | 0.0 | 0.0 | 0.3 | 0.6 |
| 1/22/09-3/26/09 | 8 | 9 | y = 1.04x – 0.78 | 0.0 | 0.1 | 0.3 | 0.8 |
| 4/02/09-8/13/09 | 15 | 15 | y = 1.09x – 0.44 | 0.0 | 0.3 | 0.5 | 2.6 |
| 8/20/09-10/20/09 | 9 | 9 | y = 1.11x – 0.34 | 0.0 | 0.0 | 0.3 | 0.7 |

**Table 9. Multipoint calibration record and results for the $H_2S$ measurements.**

| Date | # of points | Span concentration, ppb | | $R^2$ |
|---|---|---|---|---|
| | | Minimum | Maximum | |
| 9/10/2007 | 4 | 0 | 500 | 0.999 |
| 9/19/2007 | 4 | 0 | 500 | 0.999 |
| 11/28/2007 | 4 | 0 | 500 | 0.999 |
| 12/27/2007 | 4 | 0 | 10,000 | 0.999 |
| 1/18/08 | 4 | 0 | 10,000 | 0.999 |
| 4/4/08 | 2 | 0 | 500 | 1.000 |
| 7/30/08 | 4 | 0 | 500 | 1.000 |
| 3/19/09 | 4 | 0 | 500 | 0.999 |
| 9/1/09 | 4 | 0 | 500 | 0.999 |
| 10/27/09 | 4 | 0 | 500 | 0.999 |

The average response of the analyzer to the zero and span gas applications was assessed, and the results were combined based on changes to the instrument or GSS to create linear correction models (Table 10). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table 10).

**Table 10. Concentration correction periods and measurement accuracy for $H_2S$.**

| Start/end dates | # of checks | | Linear model | Accuracy, % of span | | | |
|---|---|---|---|---|---|---|---|
| | | | | Bias | | Precision | |
| | Zero | Span | | z | s | z | s |
| 9/20/07-11/01/07 | 3 | 4 | y = 1.00x +4.05 | 0 | 0 | 0 | 23.4 |
| 11/28/07-1/09/08 | 5 | 1 | y = 0.88x + 0.67 | 0 | 0 | 0 | 0 |
| 1/18/08-3/05/08 | 0 | 0 | y = 0.84x - 6.64 | 0 | 0 | 0 | 0 |
| 3/07/08-3/19/09 | 48 | 43 | y = 1.04x+ 0.31 | 0 | 0 | 0.2 | 4.7 |
| 3/26/09-8/27/09 | 19 | 4 | y = 2.03x +1.20 | 0 | 0 | 0.4 | 8.2 |
| 9/01/09-10/27/09 | 7 | 7 | y = 0.87 x +0.55 | 0 | 0 | 0.1 | 0.9 |

*3.8.3.3.Noise Tests*

Analyzer noise tests were conducted to assess the minimum detection limit (MDL) of the gas measurements. The analyzers measured CEM zero air (Praxair Cat. # AIO.OCE-T CEM) continuously for 30 to 50 min after equilibrium of the instrument readout was reached. The MDL was calculated as three times the standard deviation of the data collected during the equilibrated period (Table 11).

**Table 11. Noise test of gas analyzers with dry air on 11/03/09.**

| Concentration | Statistical variable | | | | Duration, min | $T_{dew}$, °C |
|---|---|---|---|---|---|---|
| | Min | Max | SD | MDL | | |
| $NH_3$, ppm | 0.19 | 0.68 | 0.13 | 0.30 | 50 | -48.2 |
| $CO_2$, ppm | -5.6 | 4.6 | 2.0 | 4.6 | 30 | -50.4 |
| $H_2S$, ppb | -0.5 | 0.9 | 0.7 | 1.6 | 30 | -50.9 |

### *3.8.4. Particulate Matter Monitors*

The quality of the exhaust PM was assessed through periodic mass flow calibrations and flow and leak checks of the TEOMS (Tables 12 and 13). The H3 and H4 TEOMs met or exceeded the mass verification criteria (Ko actual within ±2.5% of Ko audit) except on 9/15/09 (Tables 12 and 13).

The criteria for total and main flows were 16.67±1.0 and 3.0±0.2 L/min, respectively, and were met on all dates except 1/23/09 and 9/15/09 in H3.

Leakage criteria were total flow ≤ 0.62 L/min and main flow ≤ 0.15 L/min, respectively. All leak and flow tests of both TEOMs were acceptable on all dates.

Mass verifications and flow calibrations of the inlet PM monitor were conducted periodically (Table 14).

The TEOM measurements were also evaluated based on collocated measurements on 2/26/09-3/4/09 in H4. The differences in average $PM_{10}$ , and TSP concentrations over the collocation periods of 21.5 and 91.5 h were 8.7, and 9.2%, respectively.

**Table 12. Quality assurance tests of house 3 TEOM.**

| Date | Time since last test, d | Mass error, % | TEOM flows, L/min | | Leak test flows, L/min | |
|---|---|---|---|---|---|---|
| | | | Main | Total | Main | Aux. |
| 11/20/07 | 0 | - | 3.07 | 16.43 | 0.09 | 0.32 |
| 07/18/08 | 241 | 1.46 | 3.08 | 16.74 | 0.09 | 0.19 |
| 10/17/08 | 91 | 1.76 | 3.09 | 16.90 | 0.09 | 0.19 |
| 11/26/08 | 40 | - | 3.05 | 16.85 | 0.10 | 0.21 |
| 01/23/09 | 58 | 1.74 | 3.24 | 18.22 | 0.09 | 0.19 |
| 02/27/09 | 35 | 0.96 | 3.06 | 16.96 | 0.08 | 0.18 |
| 05/21/09 | 83 | 1.11 | 3.06 | 16.96 | 0.08 | 0.18 |
| 09/15/09 | 117 | 2.59 | 3.21 | 16.94 | 0.09 | 0.18 |
| 10/27/09 | 42 | - | 3.10 | 17.00 | 0.11 | 0.24 |

**Table 13. Quality assurance tests of house 4 TEOM.**

| Date | Time since last test, d | Mass error, % | TEOM flows, L/min | | Leak test flows, L/min | |
|---|---|---|---|---|---|---|
| | | | Main | Total | Main | Aux. |
| 11/20/07 | 0 | - | 3.03 | 16.84 | 0.10 | 0.41 |
| 07/18/08 | 241 | 1.85 | 3.03 | 16.54 | 0.09 | 0.41 |
| 10/17/08 | 91 | 2.33 | 3.04 | 16.72 | 0.09 | 0.40 |
| 11/26/08 | 40 | - | 3.01 | 16.71 | 0.10 | 0.41 |
| 01/23/09 | 58 | 1.58 | 3.04 | 16.56 | 0.09 | 0.40 |
| 02/27/09 | 35 | 2.22 | 3.03 | 16.60 | 0.09 | 0.41 |
| 05/21/09 | 83 | 2.40 | 3.00 | 16.50 | - | - |
| 09/15/09 | 117 | 4.48 | 3.05 | 16.90 | 0.09 | 0.42 |

**Table 14. Inlet PM monitoring quality assurance parameters.**

| Date | Time since last test, d | Mass verification, % | Total flow check, % |
|---|---|---|---|
| 10/17/08 | 389 d since start of test | 0 | 0.21 |
| 2/20/09 | 127 | 0 | 0 |
| 9/1/09 | 193 | 0 | 0 |

## 3.9. Data Analysis

### *3.9.1. Software*

All emission data processing was conducted using custom software (CAPECAB, Fibre Recovery Systems, Inc., Calgary, AB). Data was carefully inspected and validated. If a datum was invalid for a known reason, the datum was marked (flagged) invalid and all calculations dependent on that datum were also invalid unless a substitution datum was identified. All periods of invalid data that were longer than one day are listed in Appendix D.

If the QA/QC checks described above indicated a measurement bias, the data was corrected prior to calculating emissions. The CAPECAB program provided a robust method to inspect data, invalidate if necessary, and implement various corrections over specified time periods.

### *3.9.2. Data Substitution, Validation, Correction and Uncertainty*

#### *3.9.2.1.Pressure*

All static pressures were corrected based on the zero-pressure check results.
The average static pressures for each building were determined using data from all properly-operating sensors. Intervals during which an average static pressure was based on fewer sensors are given in Appendix D. For calculating airflow, the average of the functioning sensors in the building was used whenever the sensor on the fan's actual wall failed.

Except for one 1.4 Pa reading on the east end of H4, all zero checks of the four static pressure sensors were within ±1.0 Pa. Based on the time-weighted averages of the zero checks, calibration offsets of 0.13 Pa (west end of H3), 0.29 Pa (east end of H3), 0.33 Pa (west end of H4) and 0.43 Pa (east end of H4) were assigned to the respective sensors.

#### *3.9.2.2.Environmental sensors*

The average temperature of each house were defined as the average of the exhaust temperatures measured at fans 4, 13 and 30 in each house (Figure 4). Average relative humidity (RH) of each house was the mean of the RH readings from the OMNI/NOVUS RH/T sensors at fans 13 and 30.

The INNOVA $T_{dew}$ readings for the inlet location were converted to RH, and RH was converted to humidity ratio using the standard conversion equations.

#### *3.9.2.3.Fan Operation*

Low-level noise was filtered out by setting operational status to "off" (0%) if the average speed was less than 55 rpm.

#### *3.9.2.4.Gas Concentrations*

The first 7 min and 5 min of the 10-min house gas concentration data were discarded for $NH_3$ and $H_2S$, respectively, because the system needed that much time to reach equilibrium after switching from one sampling location to another. Thus, the last 3 min and 5 min of data of each sampling period were validated for $NH_3$ and $H_2S$, respectively.

Table 16 describes the time specified in the data processing software for gas concentration measurements to stabilize, based on gas and sampling location, and the maximum interval for interpolating between two valid concentration measurements for a sampling location.

**Table 16. Gas concentration data validation and interpolation requirements.**

| Gas | Exhaust sampling locations | | Inlet sampling location | |
|---|---|---|---|---|
| | Equilibration period, min | Maximum interpolation interval, min | Equilibration period, min | Maximum interpolation interval, min |
| $NH_3$ | 7 | 300 | 17 | 3000 |
| $H_2S$ | 5 | 300 | 10 | 3000 |

Gas and water vapor concentrations, and sample relative humidity, temperature, pressure, flow rate, and flow direction were automatically invalidated during all gas analyzer MPCs and Z/S checks, and when sample Q < 4.6 L/min. Gas and PM data were invalidated under conditions of positive barn static pressure, because barn airflow measurements require a negative or underpressure in the barn.

Gas concentration data were invalidated due to problems with the INNOVA 1412. The analyzer sustained chopper motor errors in August, 2008, October, 2008 and November 2008. Approximately 30 d of $NH_3$, $CO_2$ and water-vapor concentration data were lost or invalidated due to INNOVA related issues.

Gas concentration data was invalidated whenever the GSS failed leak tests.

Standard gas concentrations were calculated on dry and moist bases with Eqns. 3-1 and 3-2, respectively.

$$C'' = \frac{C'}{(1-W)} \qquad (3\text{-}1)$$

and

$$C' = \frac{P' \cdot c \cdot M}{R \cdot (273 + T')} \qquad (3\text{-}2)$$

where:

$C''$ Dry standard mass concentration, dry basis (mg $d^{-1}sm^3$ or µg $d^{-1}sm^3$)
$C'$ Standard mass concentration, moist-air basis (mg $sm^{-3}$ or µg $sm^{-3}$)
$P'$ Standard pressure (1 atm)
$T'$ Standard temperature (20°C)
$c$ Volumetric concentration of gas (ppm or ppb)
$M$ Molecular weight of gas (g $mol^{-1}$)
$R$ Universal Gas Constant (0.08206 L atm $mol^{-1}$ °$K^{-1}$)
W Humidity ratio

*3.9.2.5.Particulate Matter*

Prior to 2/19/08, the flows through the TEOM monitors were internally adjusted to 16.7 L/min for standard conditions (20ºC and 1 atm), regardless of the surrounding conditions. The actual flow through the TEOM was verified by correcting for the surrounding conditions; the flow was

maintained between 15.7 and 17.7 L/min, and the quality of the PM data was therefore acceptable based on QAQC requirements. The internal TEOM configurations were adjusted on 2/19/08 to adjust the flow to 16.7 L/min based on the surrounding conditions.

The TEOMs were configured to output the PM concentration data at the surrounding temperature and atmospheric pressure until 2/19/08, at which time they were reconfigured to output the PM data at standard conditions (20ºC, 1 atm). All PM concentration data prior to 2/19/08 was corrected to standard conditions.

Dry standard PM concentrations were obtained by dividing raw concentrations by the air humidity ratio.

### *3.9.3. Emission Calculations*

#### *3.9.3.1.Particulate matter*

PM emissions were calculated with Eqn. 3-3.

$$E = \left( Q_O \cdot P_O \cdot \left( \frac{273+20}{273+T_O} \right) \right) \cdot \; c'_O - c'_i \qquad (3\text{-}3)$$

Where:

| | |
|---|---|
| E | Net PM emission rate (µg $s^{-1}$) |
| $Q_0$ | Exhaust airflow rate at To ($m^3$ $s^{-1}$) |
| $P_0$ | Pressure of exhaust air (atm) |
| $C_0'$ | PM concentration of exhaust air (µg $m^{-3}$) |
| Ci′ | Inlet PM concentration (µg $m^{-3}$) |
| $T_0$ | Temperature of exhaust air (°C) |

#### *3.9.3.2.Gases*

Stream-specific gas emissions were determined as follows:

$$E = Q_O \cdot \frac{P_O \cdot M}{R \cdot (273+T_O)} \cdot (c_O - c_i) \qquad (3\text{-}4)$$

Where:

| | |
|---|---|
| E | Stream or house emission rate (mg $s^{-1}$ or µg $s^{-1}$) |
| $Q_O$ | Stream or house outlet moist airflow rate at To ($m^3$ $s^{-1}$) |
| $P_O$ | Exhaust air pressure (atm) |
| M | Gas molecular weight (g $mol^{-1}$) |
| R | Universal Gas Constant (0.08206 L atm/$mol^{-1}$ °$K^{-1}$) |
| $T_O$ | Exhaust air temperature (°C) |
| $c_o$ | Exhaust air concentration (ppm or ppb) |
| $c_i$ | Inlet or ventilation air inlet concentration (ppm or ppb) |

Building emissions were the summation of the stream emissions. If the interpolated stream concentration was invalid for one stream in a house, the average of the other two stream concentrations was substituted in the emission calculation. Building emission was divided by variables (house inventory, feed consumption) or constants (floor area) to normalize emissions to site-specific characteristics.

*3.9.3.3.Volatile Organic Compounds*

The total VOC concentration was multiplied by building airflow for the 24-h canister sampling period to yield an average emission rate. If two samples were successfully collected for a building at one sampling event, the average concentration was used in the calculation.

# 4. RESULTS

## 4.1. Farm Production Information

The occupancy in H3 and H4 averaged 92,977 and 91,349 hens with mean hen weights of 1.47 and 1.43 kg, respectively (Table E2). The monitoring period spanned across two production cycles with a clean out period of about 22 d between cycles. The daily average egg production rates of H3 and H4 were 6,434 and 6,313 dozen, respectively.

The average daily feed consumption was 86 and 95 $g \cdot hen^{-1}$ in H3 and H4, respectively. The overall daily average water concumption was 0.19 $L \cdot hen^{-1}$.

The manure produced during the study was estimated at 3136 metric tons per house.

## 4.2. Characteristics of Biomaterials

The pH,and solids content, and $NH_3$-N content of the manure surfaces in the pit ranged from 7.5 to 8.8, 36 to 89%, and 0.1 to 0.9 $mg \cdot L^{-1}$, respectively (Table F1). The TKN, solids, and $NH_3$-N contents of the loadout manure ranged from 2.3 to 3.2 $mg \cdot L^{-1}$, 75 to 80%, and 153 to 779 $mg \cdot L^{-1}$, respectively (Table F2). The average total N and TKN contents of two water samples collected on 1/16/08 were 0.03 and 12.0 $mg \cdot L^{-1}$, respectively (Table F3).

## 4.3. Environmental Conditions

### *4.3.1. Ambient Conditions*

According to historical climatic information collected at the weather stations nearest the site, average monthly temperatures range from 4ºC in the winter to 26ºC in the summer (Table 17). Southwest winds prevail throughout the year.

The daily average outdoor temperature, relative humidity, wind speed, wind direction, solar radiation and atmospheric pressure are provided in Table E1. The ADM outdoor temperature was 17 ºC, as compared with the historical average of 15ºC.

### *4.3.2. House Conditions*

The environmental conditions in H3 and H4 are shown in Table E3. The inside temperatures ranged from 14 to 32°C and the outside temperature ranged from -6 to 32 °C (Figure 5).

## 4.4. Ventilation Rate

The median static pressure differential was -20±5 Pa for all sensors (Table E3). The fraction of time that the pressure was positive ranged from 0.1 to 0.5%. Static pressure was greater than -30 Pa over 90% of the time.

House ventilation rates ranged from 24 $m^3/s$ in winter to 266 $m^3/s$ in summer (Figure 5).

**Table 17. Monthly averages for weather conditions in the area.**

| Month | Temperature*,°C | | | Wind speed** km/h | Wind direction** |
|---|---|---|---|---|---|
| | High | Low | Mean | | |
| **January** | 10 | -2 | 4 | 13 | SW |
| **February** | 12 | -1 | 6 | 15 | SW |
| **March** | 17 | 3 | 10 | 15 | SW |
| **April** | 22 | 8 | 15 | 15 | SW |
| **May** | 26 | 13 | 19 | 13 | SW |
| **June** | 29 | 18 | 23 | 12 | SW |
| **July** | 32 | 20 | 26 | 12 | SW |
| **August** | 31 | 19 | 25 | 10 | SW |
| **September** | 27 | 16 | 22 | 12 | SW |
| **October** | 22 | 9 | 15 | 12 | SW |
| **November** | 18 | 4 | 11 | 13 | SW |
| **December** | 12 | -1 | 6 | 12 | SW |
| **Annual Average** | **22** | **9** | **15** | | |

***Data collected at Red Oak, NC (www.weather.com/weather/wxclimatology/monthly/27868).**

** Data collected at Raleigh, NC (NOAA National Climate Data Center).

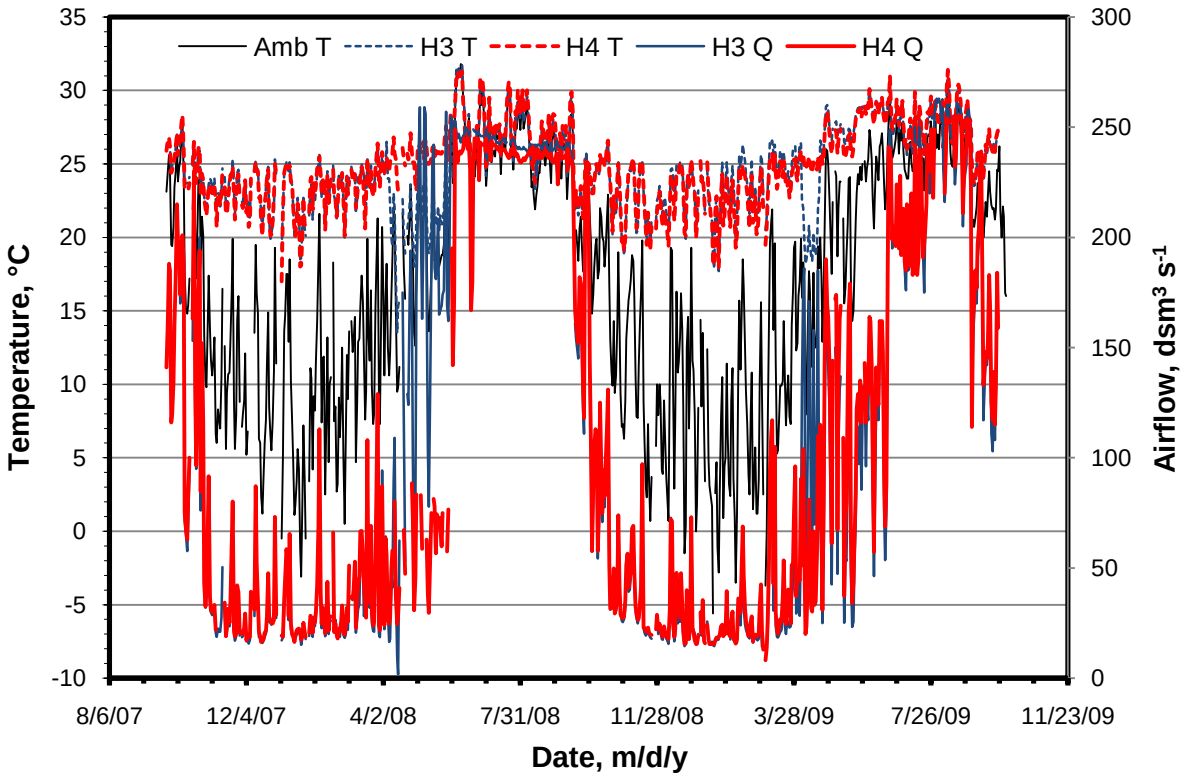


**Figure 5. Inlet and exhaust temperatures (T) and dry standard airflow rates (Q) of houses 3 and 4.**

## 4.5. Particulate Matter Concentration and Emission

### *4.5.1. $PM_{10}$*

The DM inlet $PM_{10}$ concentration ranged from 7 to 232 µg dsm$^{-3}$ (n=536 d), whereas the DM H3 and H4 $PM_{10}$ exhaust concentrations ranged from 27 to 2340 (n=570 d) and from -141 to 1410 µg dsm$^{-3}$ (n=409 d), respectively (Table E4).

The ADM inlet, H3 and H4 $PM_{10}$ concentrations were 36 ±23 µg dsm$^{-3}$, 485±339 µg dsm$^{-3}$, and 442±323 µg dsm$^{-3}$, respectively (Table E4).

The overall mean $PM_{10}$ emission rates were 1486±710 g d$^{-1}$ (231±548 mg d$^{-1}$doz egg$^{-1}$), and 2219±1147 g d$^{-1}$ (351±867 mg d$^{-1}$doz egg$^{-1}$) from H3 (n=377 d) and H4 (n=487 d), respectively (Figure 6).

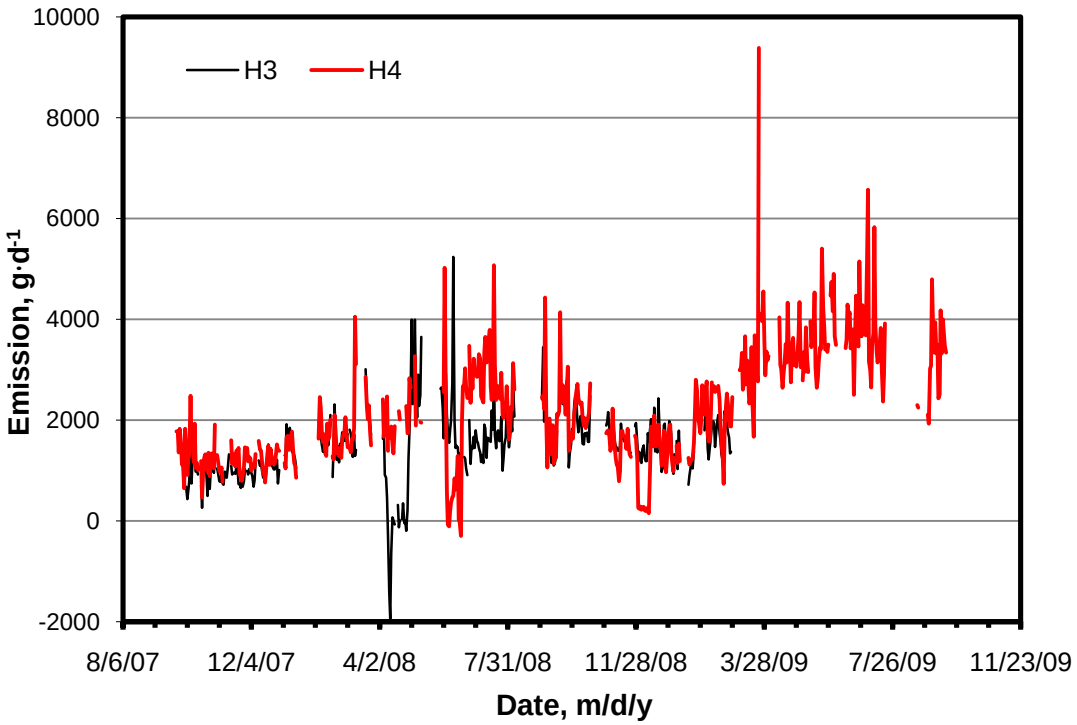


**Figure 6. Daily mean PM10 emissions from houses 3 and 4.**

### *4.5.2. PM2.5*

Daily mean inlet concentrations of $PM_{2.5}$ ranged from 4 to 59 µg $dsm^{-3}$ (n=145 d), whereas the DM H3 and H4 $PM_{10}$ exhaust concentrations ranged from -0.8 to 66 (n=33 d) and from 2 to 70 µg $dsm^{-3}$ (n=21 d), respectively (Table E5).

The ADM inlet, H3 and H4 $PM_{2.5}$ concentrations were 23±11 µg $dsm^{-3}$, 39±15 µg $dsm^{-3}$, and 41±19 µg $dsm^{-3}$, respectively (Table E5, Figure 7).

The overall mean $PM_{2.5}$ emission rates from H3 (n=21 d) and H4 (n=33 d) were 50±58 g $d^{-1}$ (8±8 mg $d^{-1}$doz $egg^{-1}$), and 165±182 g $d^{-1}$ (26±31 mg $d^{-1}$doz $egg^{-1}$) (Figure 7).

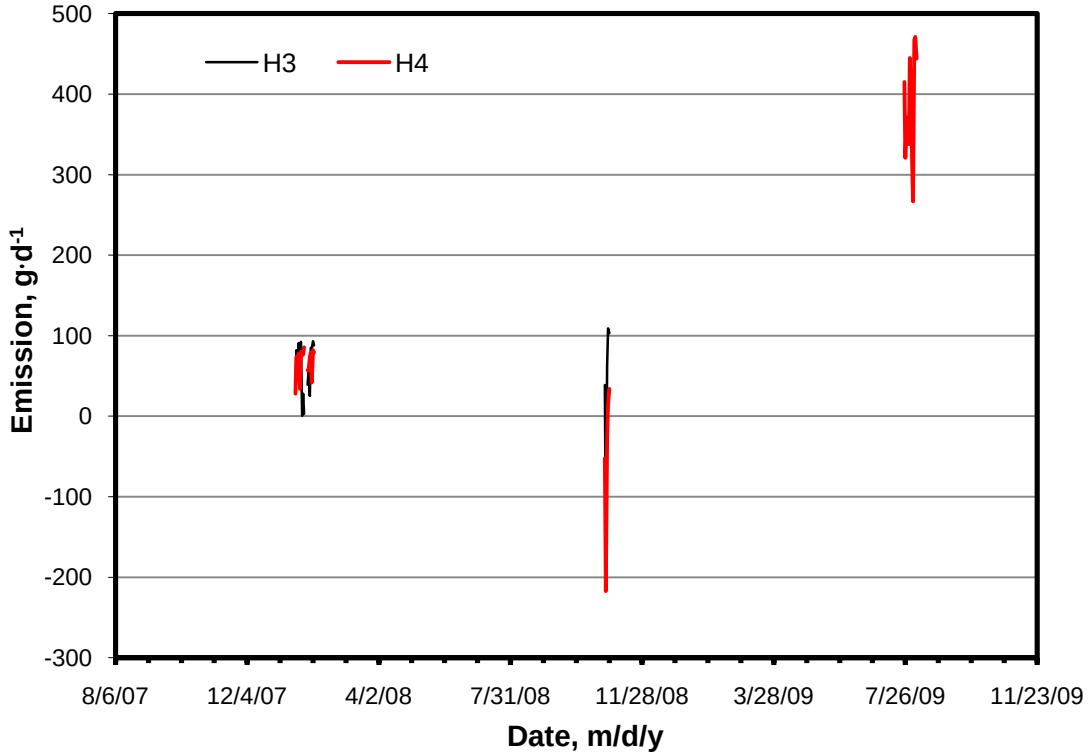


**Figure 7. Daily mean $PM_{2.5}$ emissions from houses 3 and 4.**

### *4.5.3. TSP*

Data from the ten TSP measurement periods are shown in Table E4. Daily mean TSP concentrations ranged from 11 to 94 µg $dsm^{-3}$ in the inlet air (n=94 d), 115 to 2940 µg $dsm^{-3}$ in H3 exhaust air (n=67 d) and from 112 to 2330 µg $dsm^{-3}$ in H4 exhaust air (n=45 d) (Table E4).

The ADM inlet, and H3 and H4 exhaust concentrations were 41±19, 1086±813 and 684±659 µg $dsm^{-3}$, respectively (Table E4).

Emission rates of TSP for H3 and H4 are shown in Figure 8. The overall mean TSP emission rates from H3 and H4 were 3391±1501 g $d^{-1}$ (0.53±0.3 g $d^{-1}$doz $eggs^{1}$) (n= 44 d), and 4385±150 g $d^{-1}$ (0.69±1.1 g $d^{-1}$doz $eggs^{1}$) (n=62 d), respectively.

### *4.5.4. VOC Concentrations and Emissions*

The 20 most prevalent VOCs detected in the canister samples accounted for 90.6 % of the total quantified mass (Table 18). The most prevalent compound was acetaldehyde, which was 41% of the total mass.

Concentrations of total VOC ranged from 0.26 to 0.81 mg $m^{-3}$ in H4 pit exhaust air and from 0.24 to 4.50 mg $m^{-3}$ in H4 second floor exhaust air (Table 19). The average concentrations of

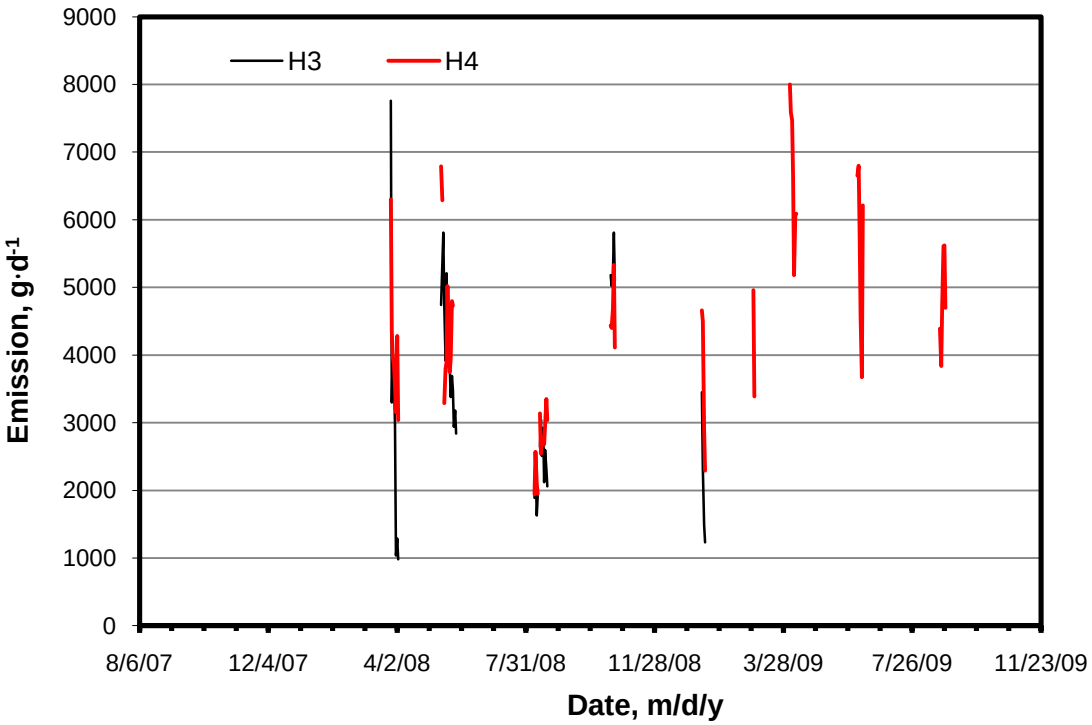


**Figure 8. Daily mean TSP emissions from houses 3 and 4.**

total VOC in H4 pit and second floor exhaust air were 0.61 and 1.16 mg $m^{-3}$, respectively. The highest concentrations (4.50 mg $m^{-3}$) were observed in early December and in the H4 upstairs, when ventilation airflow was lowest (17.7 $m^3$/s).

Total VOC emissions (ng $s^{-1}$) during each sampling period were determined by multiplying the mean building airflow rate ($m^3$ $s^{-1}$) by the total mass (ng $m^{-3}$) and converting to kg $d^{-1}$. The VOC emission rates from the lower and upper floors of H4 ranged from 1.24 to 7.92 kg $d^{-1}$ and from 2.66 to 12.60 kg $d^{-1}$, respectively. The overall mean VOC emission rate of both sampling locations were highest in summer due to higher building airflow rates. The overall average VOC emission rates were 5.02 and 6.50 kg $d^{-1}$ (0.80 and 1.03 g $d^{-1}$ doz $eggs^{-1}$).

### 4.6. Hydrogen Sulfide Concentration and Emissions

Daily mean inlet and exhaust $H_2S$ concentrations for the entire test are provided in Table E10.

The average daily mean $H_2S$ concentrations were approximately 0.87±1.3 (n=698) ppb in the inlet air, and 9.1±6 (n=670) and 9.5±5 ppb (n=678) in the exhausts of H3 and H4, respectively.

Daily mean $H_2S$ emissions from H3 and H4 are tabulated in Table E11 and plotted in Figure 9 for the entire test period.

The ADM $H_2S$ emission rates from H3 and H4 were 57.1±35.3 g $d^{-1}$ (8.8±4 mg $d^{-1}$doz $egg^{-1}$) (n=641) and 62.8±40 g $d^{-1}$ (9.9±5 mg $d^{-1}$doz $egg^{-1}$) (n=635), respectively.

The ADM bird-specific $H_2S$ emission rates from the H3 and H4 were 614±362 (n=623), and 672±406 µg $d^{-1}$$bird^{-1}$ (n=615), respectively.

**Table 18. Average concentration of 20 most prevalent VOC.**

| Compound | Concentration, ng $m^{-3}$ | % of total | Cumulative % |
|---|---|---|---|
| 2-Butanone | 5.48E+04 | 13.97% | 14.0 |
| iso-Propanol | 3.72E+04 | 9.48% | 23.5 |
| Dimethyl sulfide | 2.14E+04 | 5.45% | 28.9 |
| Hexanal | 2.04E+04 | 5.19% | 34.1 |
| Acetic acid | 2.00E+04 | 5.10% | 39.2 |
| 2,3-Butanedione | 1.91E+04 | 4.85% | 44.0 |
| Pentane | 1.66E+04 | 4.24% | 48.3 |
| Acetaldehyde | 1.55E+04 | 3.95% | 52.2 |
| Pentanal | 1.43E+04 | 3.64% | 55.9 |
| Phenol | 1.27E+04 | 3.24% | 59.1 |
| Toluene | 9.39E+03 | 2.39% | 61.5 |
| 4-Methyl-phenol | 9.34E+03 | 2.38% | 63.9 |
| Dimethyl disulfide | 9.31E+03 | 2.37% | 66.3 |
| Butanal | 9.20E+03 | 2.34% | 68.6 |
| Heptanal | 9.03E+03 | 2.30% | 70.9 |
| 1-Butanol | 7.88E+03 | 2.01% | 72.9 |
| Octanal | 7.72E+03 | 1.97% | 74.9 |
| Nonanal | 7.17E+03 | 1.83% | 76.7 |
| 2-Pentanone | 6.87E+03 | 1.75% | 78.4 |
| Propanoic acid | 6.64E+03 | 1.69% | 80.1 |

**Table 19. Emission of total VOC.**

| Date | # canisters | | Concentration, mg $m^{-3}$ | | Airflow, $m^3s^{-1}$ | | Emission, kg $d^{-1}$ | |
|---|---|---|---|---|---|---|---|---|
| | H4 pit | H4 | H4 pit | H4 | H4 pit | H4 | H4 pit | H4 |
| 04/12/09 | 2 | 2 | 0.54 | 0.45 | 17.7 | 17.7 | 0.83 | 0.69 |
| 04/27/09 | 2 | 2 | 0.41 | 0.42 | 128 | 127 | 4.52 | 4.65 |
| 05/20/09 | 2 | 2 | 0.62 | 0.54 | 43.4 | 43.4 | 2.31 | 2.03 |
| 07/02/09 | 2 | 2 | 0.51 | 0.44 | 178 | 178 | 7.90 | 6.81 |
| 08/26/09 | 2 | 2 | 0.29 | 0.46 | 220 | 220 | 5.51 | 8.7 |
| 09/09/09 | 2 | 2 | 0.26 | 0.24 | 130 | 130 | 2.94 | 2.66 |
| 09/18/09 | 2 | 2 | 0.41 | 0.29 | 80.4 | 80.0 | 2.83 | 2.03 |
| **Mean** | 2 | 2 | 0.43 | 0.41 | 114 | 114 | 3.83 | 3.93 |

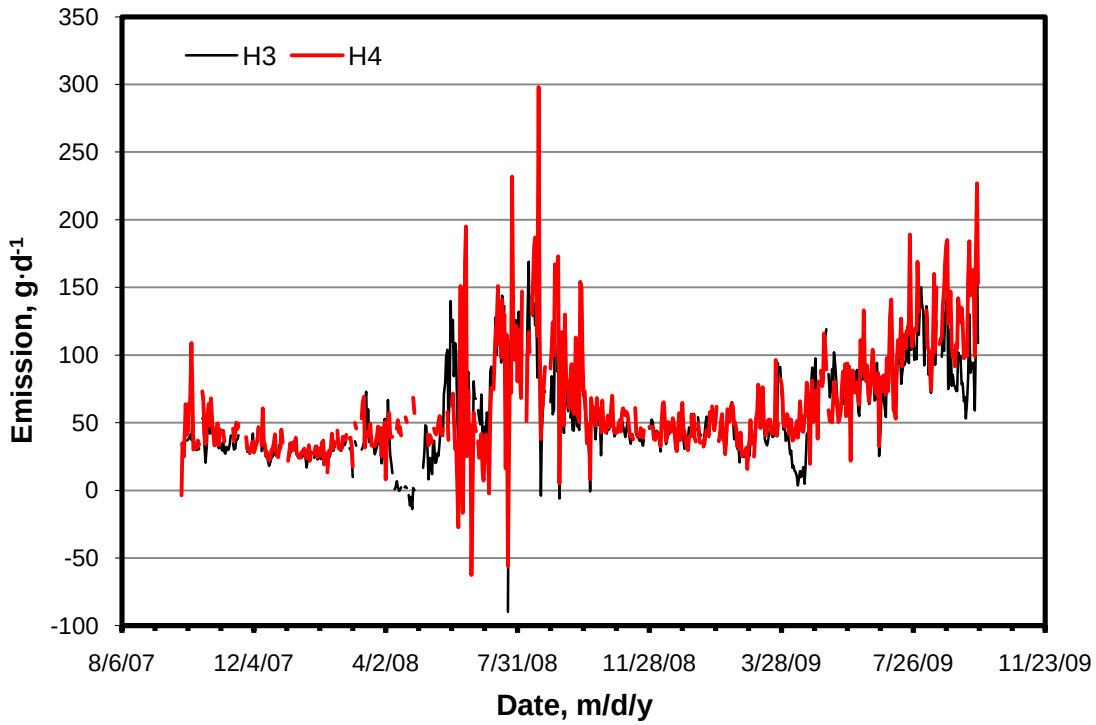


**Figure 9. Daily mean $H_2S$ emissions from houses 3 and 4.**

### 4.7. Ammonia Concentration and Emissions

Daily mean inlet and exhaust $NH_3$ concentrations for the entire test are provided in Table E8.

The average daily mean $NH_3$ concentrations were approximately 0.91±0.52 (n=676) ppm in the inlet air, and 21.3±17.6 (n=648) and 20.2±16.4 ppb (n=651) in the exhausts of H3 and H4, respectively.

Daily mean $NH_3$ emissions from H3 and H4 are tabulated in Table E9 and plotted in Figure 10 for the entire test period.

The ADM $NH_3$ emission rates from H3 and H4 were 62.5±25.9 kg $d^{-1}$(9.7±9 g $d^{-1}$doz $egg^{-1}$) (n=613) and 58.1±21.4 kg $d^{-1}$ (9±7 g $d^{-1}$doz $egg^{-1}$) (n=611), respectively.

The ADM bird-specific $NH_3$ emission rates from H3 and H4 were 665±262 (n=595) mg $d^{-1}bird^{-1}$, and 630±218 mg $d^{-1}bird^{-1}$ (n=591), respectively.

### 4.8. Emission Data Completeness

Data completeness data is given in Table E12. The number of complete data days (>75% valid required for reporting a daily mean) were calculated for emission measurements conducted from 10/17/07 to 10/31/09 (Table 20).

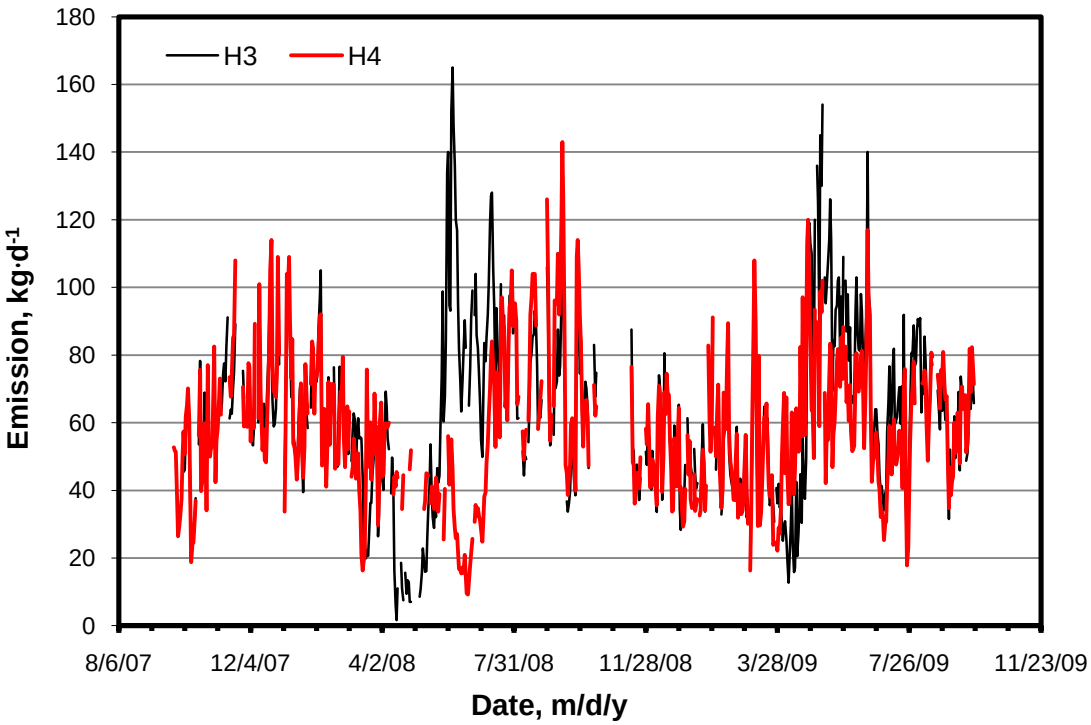


**Figure 10. The daily mean NH3 emissions from Houses 3 and 4.**

**Table 20. Data completeness (% successful data collection) of emissions data.**

| Location | Days with >75% valid emission data | | | | |
|---|---|---|---|---|---|
| | $NH_3$ | $H_2S$ | $PM_{10}$ | $PM_{2.5}$ | TSP |
| **H3** | 613 | 641 | 377 | 21 | 44 |
| **H4** | 614 | 635 | 518 | 33 | 62 |

## 4.9. Reconciliation with Data Quality Objectives

The data quality objectives prior to the study were to measure gas and PM emissions from mechanically-ventilated buildings with total relative uncertainties of 27% and 32%, respectively.

### *4.9.1. Airflow*

The overall average airflows for H3and H4 were 101.1± 32.5 $dsm^3 s^{-1}$ (n=613), and 97.3 ± 30.3 $dsm^3 s^{-1}$ (n=614), respectively**.** The average airflows were approximately equivalent to 11.4, 122-cm fans operating in each house. The airflow measurement uncertainty at these conditions was 2.6%, based on the fan models.

### *4.9.2. Gas Emissions*

The bias and precision of $NH_3$ concentration measurements were derived from the $NH_3$ zero/span checks as compared with the $NH_3$ correction models (Table 8). The time-weighted relative bias and precision of $NH_3$ measurements were 0.0% and 0.4% and 0.2% and 2.1% for zero and span, respectively.

The bias and precision of $H_2S$ concentration measurements were derived from the $H_2S$ zero and span checks as compared with the $H_2S$ correction models (Table 10). The time-weighted relative bias and precision of $H_2S$ measurements were 0.0% and 0.2% and 0.0% and 5.7% for zero and span, respectively.

Based on these measurement errors calculated for concentrations and airflows, the uncertainties of $NH_3$ and $H_2S$ emissions from H3 and H4 was 6.3 and 12.4%, respectively.

### *4.9.3. PM Emissions*

The precisions of the $PM_{10}$, TSP and $PM_{2.5}$ concentration measurements were 6.7, 7.1 and 6.7%, respectively, based on collocation tests of TEOMs. The time-weighted relative biases of the TEOMs were 3.3 and 0.9% for H3 and H4 based on mass flow checks (Tables 12 and 13). The uncertainties of $PM_{10}$, TSP and $PM_{2.5}$ emissions from H3 were 14.4%, 15.1 and 14.4%, respectively. The uncertainties of $PM_{10}$, TSP and $PM_{2.5}$ emissions from H4 were 14.1, 14.7 and 14.1, respectively.

## 5. SUMMARY

The emissions of $NH_3$, $H_2S$, $PM_{10}$, TSP, $PM_{2.5}$ and VOCs from two high-rise layer houses at an egg production facility in North Carolina were measured during a two-year monitoring study. Manure accumulated in the first floor of the buildings and was removed annually. The houses were tunnel ventilated with single-speed fans.

The overall average emission rates from house 3 were 62.5 kg $d^{-1}$ of $NH_3$, 57.1 g $d^{-1}$ of $H_2S$, 1486 g $d^{-1}$ of $PM_{10}$, 50.0 g $d^{-1}$ of $PM_{2.5}$, and 3391 g $d^{-1}$ of TSP. The overall average emission rates from house 4 were 58.1 kg $d^{-1}$ of $NH_3$, 62.8 g $d^{-1}$ of $H_2S$, 2219 g $d^{-1}$ of $PM_{10}$, 165 g $d^{-1}$ of $PM_{2.5}$, 4385 g $d^{-1}$ of TSP, and 6.5 kg $d^{-1}$ of total VOC.

## 6. REFERENCES

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Ni, J.-Q., A./J. Heber, M.J. Darr, T. T. Lim, C.A. Diehl, and B.W. Bogan. 2009. Air quality monitoring and on-site computer system for livestock and poultry environment studies. *Transactions of the ASABE* 52(3): 937-947.

Ni, J.-Q. and A.J. Heber. 2010. An on-site computer system for comprehensive agricultural air quality research. *Computers and Electronics in Agriculture* 71(1):38-49.

## 7. DEFINITIONS

| | |
|---|---|
| AARC | Agricultural Air Research Council |
| AirDAC | Air Data Acquisition and Control – computer program |
| ADM | Average daily mean |
| H3 | House 3 |
| H4 | House 4 |
| BESS | Bioenvironmental and Structural Systems |
| CAPECAB | Calculations of Air Pollutant Emissions from Confined Animal Buildings |
| CIS | Cold Injection System |
| $CO_2$ | Carbon dioxide |
| DM | Daily mean |
| $\Delta P$ | Differential pressure |
| DQO | Data quality objective |
| FANS | Fan Airflow Numeration System |
| GC/MS | Gas chromatograph mass spectrometer |
| GLS | Gas sampling location(s) |
| GSS | Gas sampling system |
| $H_2S$ | Hydrogen sulfide |
| MDL | Minimum detection limit |
| MPC | Multipoint calibration |
| MS | Mass spectrometer |
| n | Number or count |
| NAEMS | National Air Emissions Monitoring Study |
| $NH_3$ | Ammonia |
| QA | Quality assurance |
| QC | Quality control |
| OFIS | On farm instrument shelter |
| PM | Particulate matter |
| PREF | Primary representative exhaust fan |
| RH/T | Relative humidity/temperature |
| RH | Relative humidity |
| SD | Standard deviation |
| $T_{dew}$ | Dew point temperature |
| TDS | Thermal desorption system |
| TDS-GS-MS | Thermodesorption-gas chromatograph mass spectrometer |
| TEOM | Tapered element oscillating microbalance |
| TSP | Total suspended particulate |
| VOC | Volatile organic compounds |
| Z/S | Zero/span |

## APPENDIX A. MEASUREMENT VARIABLE LIST.

| Data Col# | Data heading | Instrument, sensor, controller | Sensor location | Monitoring/control location | Range/target | DAC hardware |
|---|---|---|---|---|---|---|
| 1 | Date & time | --- | | | | --- |
| 2 | Smpl loc# | --- | | | | --- |
| 3 | Cal gas # | Environics | Rack | | | --- |
| 4 | Cal gas, ppm | Environics | Rack | | | --- |
| 5 | NH3, ppm | Innova 1412 | Rack | 7 gas sampling lines | | --- |
| 6 | CO2, ppm | Innova 1412 | Rack | 7 gas sampling lines | | --- |
| 10 | WV, Tdew | Innova 1412 | Rack | 7 gas sampling lines | | --- |
| 11 | H2S, ppb | H2S analyzer | Rack | 7 gas sampling lines | 0-100 | FP-AI-112-1 |
| 12 | SO2, ppb | H2S analyzer | Rack | 7 gas sampling lines | 0-100 | FP-AI-112-1 |
| 13 | Smpl P, atm | Setra 209 P sensor | GSS | 7 gas sampling lines | 0-14.7 psiv | FP-AI-112-1 |
| 14 | Smpl Q, L/m | Mass flow | GSS | 7 gas sampling lines | 0-10 | FP-AI-112-1 |
| 15 | Smpl RH, % | Humitter 50Y | GSS | 7 gas sampling lines | 0-100 | FP-AI-112-1 |
| 16 | Smpl T, C | Humitter 50Y | GSS | 7 gas sampling lines | -40 to 60 | FP-AI-112-1 |
| 17 | Smpl dir, %t | Flow direction sensor | GSS | 7 gas sampling lines | 0.065 - 0.065 V | FP-AI-112-1 |
| 18 | GSS T, C | AD 592D T sensor | GSS | GSS (0C=273uA, 70C=343uA) | 0-70 | FP-AI-112-1 |
| 19 | B3 PM, ug/m3 | TEOM #1 | B3 | B3 in front of fan 13 | -1000-9000 | FP-AI-112-1 |
| 20 | B3 Filter, % | TEOM #1 | B3 | B3 in front of fan 13 | 0-140 | FP-AI-112-1 |
| 21 | B3 Atm P, Pa | TEOM #1 | B3 | B3 in front of fan 13 | 0.8-1.3 atm | FP-AI-112-1 |
| 22 | B4 PM, ug/m3 | TEOM #2 | B4 | B4 in front of fan 13 | -1000-9000 | FP-AI-112-1 |
| 23 | B4 Filter, % | TEOM #2 | B4 | B4 in front of fan 13 | 0-140 | FP-AI-112-1 |
| 24 | Amb PM, ug/m3 | Beta Gauge | Amb | Outside S side of B3, W end of Inlet | 0-5000 | FP-AI-112-1 |
| 26 | B3W ΔP, Pa | Setra 260 P sensor #1 | B3W | B3 W wall | -100 to 100 | FP-AI-112-1 |
| 27 | B3E ΔP, Pa | Setra 260 P sensor #2 | B3E | B3 E wall | -100 to 100 | FP-AI-112-2 |
| 28 | B4W ΔP, Pa | Setra 260 P sensor #3 | B4W | B4 W wall | -100 to 100 | FP-AI-112-2 |
| 29 | B4E ΔP, Pa | Setra 260 P sensor #4 | B4E | B4 E wall | -100 to 100 | FP-AI-112-2 |
| 30 | B2-B3 ΔP, Pa | Setra 260 P sensor #5 | B2-B3 | Between B2 and B3 in egg conveyor hallway | -100 to 100 | FP-AI-112-2 |
| 31 | B3-B4 ΔP, Pa | Setra 260 P sensor #6 | B3-B4 | Between B3 and B4 in egg conveyor hallway | -100 to 100 | FP-AI-112-2 |
| 32 | B4-B5 ΔP, Pa | Setra 260 P sensor #7 | B4-B5 | Between B4 and B5 in egg conveyor hallway | -100 to 100 | FP-AI-112-2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 33 | OFIS ΔP, Pa | Setra 260 P sensor #8 | OFIS | Inside and outdoor of OFIS | -100 to 100 | FP-AI-112-2 |
| 34 | OFIS HVAC | Setra 260 P sensor #9 | OFIS | HVAC | -100 to 100 Pa | FP-AI-112-2 |
| 35 | Wind D, deg | 03002VM Wind Sentry | Roof | Roof top tower | 0-360 | FP-AI-112-2 |
| 36 | Wind V, m/s | 03002VM Wind Sentry | Roof | Roof top tower | 0-50 | FP-AI-112-2 |
| 37 | Solar, W/m2 | LI-200SL Pyranometer | Roof | Roof top tower | 0-1000 | FP-AI-112-2 |
| 39 | Amb RH, % | NOVUS RHT-WM #1 | Roof | Roof top tower | 0-100 % | FP-AI-112-2 |
| 40 | Amb T, C | NOVUS RHT-WM #1 | Roof | Roof top tower | 0 - 100 | FP-AI-112-2 |
| 41 | B3 RH, % | NOVUS RHT-WM #2 | B3 | B3 Middle of barn | 0-100 % | FP-AI-112-2 |
| 42 | B3 T, C | NOVUS RHT-WM #2 | B3 | B3 Middle of barn | 0 - 100 | FP-AI-112-2 |
| 43 | B4 RH, % | NOVUS RHT-WM #3 | B4 | B4 Middle of barn | 0-100 % | FP-AI-112-3 |
| 44 | B4 T, C | NOVUS RHT-WM #3 | B4 | B4 Middle of barn | 0 - 100 | FP-AI-112-3 |
| 45 | B3F30 RH, % | NOVUS RHT-WM #4 | B3F30 | B3 in front of fan 30 | 0-100 % | FP-AI-112-3 |
| 46 | B3F30 T, C | NOVUS RHT-WM #4 | B3F30 | B3 in front of fan 30 | 0 - 100 | FP-AI-112-3 |
| 47 | B3F13 RH, % | NOVUS RHT-WM #5 | B3F13 | B3 in front of fan 13 | 0-100 % | FP-AI-112-3 |
| 48 | B3F13 T, C | NOVUS RHT-WM #5 | B3F13 | B3 in front of fan 13 | 0 - 100 | FP-AI-112-3 |
| 49 | B4F30 RH, % | NOVUS RHT-WM #6 | B4F30 | B4 in front of fan 30 | 0-100 % | FP-AI-112-3 |
| 50 | B4F30 T, C | NOVUS RHT-WM #6 | B4F30 | B4 in front of fan 30 | 0 - 100 | FP-AI-112-3 |
| 51 | B4F13 RH, % | NOVUS RHT-WM #7 | B4F13 | B4 in front of fan 13 | 0-100 % | FP-AI-112-3 |
| 52 | B4F13 T, C | NOVUS RHT-WM #7 | B4F13 | B4 in front of fan 13 | 0 - 100 | FP-AI-112-3 |
| 53 | B3N Act , V | Activity sensor #1 | B3N | B3 N side of barn, in line with raceway | | FP-AI-112-3 |
| 54 | B3 Act , V | Activity sensor #2 | B3 | B3 center, in line with raceway | | FP-AI-112-3 |
| 55 | B3S Act , V | Activity sensor #3 | B3S | B3 S side of barn, in line with raceway | | FP-AI-112-3 |
| 56 | B3NE Act , V | Activity sensor #4 | B3NE | B3 over egg conveyor in NE corner | | FP-AI-112-3 |
| 57 | B4N Act , V | Activity sensor #5 | B4N | B4 N side of barn, in line with raceway | | FP-AI-112-3 |
| 58 | B4 Act , V | Activity sensor #6 | B4 | B43 center, in line with raceway | | FP-AI-112-3 |
| 59 | B4S Act , V | Activity sensor #7 | B4S | B4 S side of barn, in line with raceway | | FP-AI-112-4 |
| 60 | B4NE Act , V | Activity sensor #8 | B4NE | B4 over egg conveyor in NE corner | | FP-AI-112-4 |
| 61 | OFIS Act , V | Activity sensor #9 | OFIS | OFIS | | FP-AI-112-4 |
| 63 | Ane B3F13, V | Anemometer #1 | B3 F13 | barn 3 fan 13 | | FP-AI-112-4 |
| 64 | Ane B4F13, V | Anemometer #2 | B4 F13 | B4 F13 | | FP-AI-112-4 |
| 75 | B3E T, C | TC T type | B3E | B3 center of barn on E end | | FP-TC-120-1 |
| 76 | B3MidE T, C | TC T type | B3MidE | B3 midway down E portion of barn | | FP-TC-120-1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 77 | B3MidW T, C | TC T type | B3MidW | B3 midway down W portion of barn | | FP-TC-120-1 |
| 78 | B3W T, C | TC T type | B3W | B3 center of barn on W end | | FP-TC-120-1 |
| 79 | B4E T, C | TC T type | B4E | B4 center of barn on E end | | FP-TC-120-1 |
| 80 | B4MidE T, C | TC T type | B4MidE | B4 midway down E portion of barn | | FP-TC-120-1 |
| 81 | B4MidW T, C | TC T type | B4MidW | B4 midway down W portion of barn | | FP-TC-120-1 |
| 82 | B4W T, C | TC T type | B4W | B4 center of barn on W end | | FP-TC-120-1 |
| 83 | RwyB3 T, C | TC T type | RwyB3 | Raceway between OFIS and B3 | | FP-TC-120-2 |
| 84 | RwyB3 HT T, C | TC T type | RwyB3 HT | Center of raceway between OFIS and B3 | | FP-TC-120-2 |
| 85 | RwyB4 T, C | TC T type | RwyB4 | Raceway between OFIS and B4 | | FP-TC-120-2 |
| 86 | RwyB4 HT T, C | TC T type | RwyB4 HT | Center of raceway between OFIS and B4 | | FP-TC-120-2 |
| 87 | OFIS T, C | TC T type | OFIS | DAC Panel | | FP-TC-120-2 |
| 88 | B3F4 T, C | TC TX Type | B3F4 | B3F4 Gas Sampling point | | FP-TC-120-2 |
| 89 | B4F4 T, C | TC TX Type | B4F4 | B4F4 Gas Sampling point | | FP-TC-120-2 |
| 90 | Enclosure T,C | TC T Type | Enclosure | Beta Gauge Enclosure, outside B3SW inlet | | FP-TC-120-2 |
| 91 | B3F2, rpm | Fan speed sensor | B3F2 | On fan shaft or fan support | | USB-4303-1 |
| 92 | B3F4, rpm | Fan speed sensor | B3F4 | On fan shaft or fan support | | USB-4303-1 |
| 93 | B3F6, rpm | Fan speed sensor | B3F6 | On fan shaft or fan support | | USB-4303-1 |
| 94 | B3F9, rpm | Fan speed sensor | B3F9 | On fan shaft or fan support | | USB-4303-1 |
| 95 | B3F10, rpm | Fan speed sensor | B3F10 | On fan shaft or fan support | | USB-4303-1 |
| 96 | B3F11, rpm | Fan speed sensor | B3F11 | On fan shaft or fan support | | USB-4303-1 |
| 97 | B3F12, rpm | Fan speed sensor | B3F12 | On fan shaft or fan support | | USB-4303-1 |
| 98 | B3F13, rpm | Fan speed sensor | B3F13 | On fan shaft or fan support | | USB-4303-1 |
| 99 | B3F14, rpm | Fan speed sensor | B3F14 | On fan shaft or fan support | | USB-4303-1 |
| 100 | B3F15, rpm | Fan speed sensor | B3F15 | On fan shaft or fan support | | USB-4303-1 |
| 101 | B3F16, rpm | Fan speed sensor | B3F16 | On fan shaft or fan support | | USB-4303-2 |
| 102 | B3F22, rpm | Fan speed sensor | B3F22 | On fan shaft or fan support | | USB-4303-2 |
| 103 | B3F23, rpm | Fan speed sensor | B3F23 | On fan shaft or fan support | | USB-4303-2 |
| 104 | B3F25, rpm | Fan speed sensor | B3F25 | On fan shaft or fan support | | USB-4303-2 |
| 105 | B3F26, rpm | Fan speed sensor | B3F26 | On fan shaft or fan support | | USB-4303-2 |
| 106 | B3F27, rpm | Fan speed sensor | B3F27 | On fan shaft or fan support | | USB-4303-2 |
| 107 | B3F28, rpm | Fan speed sensor | B3F28 | On fan shaft or fan support | | USB-4303-2 |
| 108 | B3F29, rpm | Fan speed sensor | B3F29 | On fan shaft or fan support | | USB-4303-2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 109 | B3F30, rpm | Fan speed sensor | B3F30 | On fan shaft or fan support | | USB-4303-2 |
| 110 | B3F31, rpm | Fan speed sensor | B3F31 | On fan shaft or fan support | | USB-4303-2 |
| 111 | B3F32, rpm | Fan speed sensor | B3F32 | On fan shaft or fan support | | USB-4303-3 |
| 112 | B3F33, rpm | Fan speed sensor | B3F33 | On fan shaft or fan support | | USB-4303-3 |
| 113 | B4F2, rpm | Fan speed sensor | B4F2 | On fan shaft or fan support | | USB-4303-3 |
| 114 | B4F4, rpm | Fan speed sensor | B4F4 | On fan shaft or fan support | | USB-4303-3 |
| 115 | B4F6, rpm | Fan speed sensor | B4F6 | On fan shaft or fan support | | USB-4303-3 |
| 116 | B4F9, rpm | Fan speed sensor | B4F9 | On fan shaft or fan support | | USB-4303-3 |
| 117 | B4F10, rpm | Fan speed sensor | B4F10 | On fan shaft or fan support | | USB-4303-3 |
| 118 | B4F11, rpm | Fan speed sensor | B4F11 | On fan shaft or fan support | | USB-4303-3 |
| 119 | B4F12, rpm | Fan speed sensor | B4F12 | On fan shaft or fan support | | USB-4303-3 |
| 120 | B4F13, rpm | Fan speed sensor | B4F13 | On fan shaft or fan support | | USB-4303-3 |
| 121 | B4F14, rpm | Fan speed sensor | B4F14 | On fan shaft or fan support | | USB-4303-4 |
| 122 | B4F15, rpm | Fan speed sensor | B4F15 | On fan shaft or fan support | | USB-4303-4 |
| 123 | B4F16, rpm | Fan speed sensor | B4F16 | On fan shaft or fan support | | USB-4303-4 |
| 124 | B4F22, rpm | Fan speed sensor | B4F22 | On fan shaft or fan support | | USB-4303-4 |
| 125 | B4F23, rpm | Fan speed sensor | B4F23 | On fan shaft or fan support | | USB-4303-4 |
| 126 | B4F25, rpm | Fan speed sensor | B4F25 | On fan shaft or fan support | | USB-4303-4 |
| 127 | B4F26, rpm | Fan speed sensor | B4F26 | On fan shaft or fan support | | USB-4303-4 |
| 128 | B4F27, rpm | Fan speed sensor | B4F27 | On fan shaft or fan support | | USB-4303-4 |
| 129 | B4F28, rpm | Fan speed sensor | B4F28 | On fan shaft or fan support | | USB-4303-4 |
| 130 | B4F29, rpm | Fan speed sensor | B4F29 | On fan shaft or fan support | | USB-4303-4 |
| 131 | B4F30, rpm | Fan speed sensor | B4F30 | On fan shaft or fan support | | USB-4303-5 |
| 132 | B4F31, rpm | Fan speed sensor | B4F31 | On fan shaft or fan support | | USB-4303-5 |
| 133 | B4F32, rpm | Fan speed sensor | B4F32 | On fan shaft or fan support | | USB-4303-5 |
| 134 | B4F33, rpm | Fan speed sensor | B4F33 | On fan shaft or fan support | | USB-4303-5 |
| 141 | B3F1, %t | CR9380-NPN | B3F1 | | on/off | DIO 96H/50 |
| 142 | B3F3, %t | CR9380-NPN | B3F3 | | on/off | DIO 96H/50 |
| 143 | B3F5, %t | CR9380-NPN | B3F5 | | on/off | DIO 96H/50 |
| 144 | B3F7, %t | CR9380-NPN | B3F7 | | on/off | DIO 96H/50 |
| 145 | B3F8, %t | CR9380-NPN | B3F8 | | on/off | DIO 96H/50 |
| 146 | B3F17, %t | CR9380-NPN | B3F17 | | on/off | DIO 96H/50 |

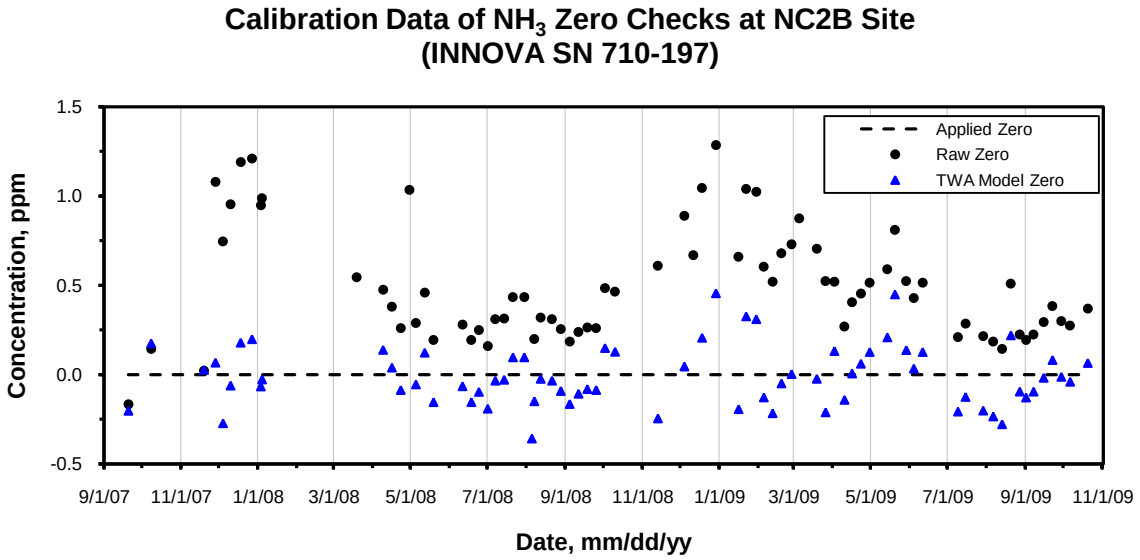
| | | | | | | |
|---|---|---|---|---|---|---|
| 147 | B3F18, %t | CR9380-NPN | B3F18 | | on/off | DIO 96H/50 |
| 148 | B3F19, %t | CR9380-NPN | B3F19 | | on/off | DIO 96H/50 |
| 149 | B3F20, %t | CR9380-NPN | B3F20 | | on/off | DIO 96H/50 |
| 150 | B3F21, %t | CR9380-NPN | B3F21 | | on/off | DIO 96H/50 |
| 151 | B3F24, %t | CR9380-NPN | B3F24 | | on/off | DIO 96H/50 |
| 152 | B3F34, %t | CR9380-NPN | B3F34 | | on/off | DIO 96H/50 |
| 153 | B4F1, %t | CR9380-NPN | B4F1 | | on/off | DIO 96H/50 |
| 154 | B4F3, %t | CR9380-NPN | B4F3 | | on/off | DIO 96H/50 |
| 155 | B4F5, %t | CR9380-NPN | B4F5 | | on/off | DIO 96H/50 |
| 156 | B4F7, %t | CR9380-NPN | B4F7 | | on/off | DIO 96H/50 |
| 157 | B4F8, %t | CR9380-NPN | B4F8 | | on/off | DIO 96H/50 |
| 158 | B4F17, %t | CR9380-NPN | B4F17 | | on/off | DIO 96H/50 |
| 159 | B4F18, %t | CR9380-NPN | B4F18 | | on/off | DIO 96H/50 |
| 160 | B4F19, %t | CR9380-NPN | B4F19 | | on/off | DIO 96H/50 |
| 161 | B4F20, %t | CR9380-NPN | B4F20 | | on/off | DIO 96H/50 |
| 162 | B4F21, %t | CR9380-NPN | B4F21 | | on/off | DIO 96H/50 |
| 163 | B4F24, %t | CR9380-NPN | B4F24 | | on/off | DIO 96H/50 |
| 164 | B4F34, %t | CR9380-NPN | B4F34 | | on/off | DIO 96H/50 |
| | | Solenoid #1 | Amb | 2 m from B3 S wall and 2 m from W end of inlet | | FP-DO-401-1 |
| | | Solenoid #2 | B3F4 | B3 fan 4 | | FP-DO-401-1 |
| | | Solenoid #3 | B3F13 | B3 fan 13 | | FP-DO-401-1 |
| | | Solenoid #4 | B3F30 | B3 fan 30 | | FP-DO-401-1 |
| | | Solenoid #5 | B4F4 | B4 fan 4 | | FP-DO-401-1 |
| | | Solenoid #6 | B4F13 | B4 fan 13 | | FP-DO-401-1 |
| | | Solenoid #7 | B4F30 | B4 fan 30 | | FP-DO-401-1 |
| | | Cooling fan | Cooling fan | | | FP-DO-401-1 |
| | | Raceway | Raceway B3 | | | FP-DO-401-1 |
| | | Raceway | Raceway B4 | | | FP-DO-401-1 |

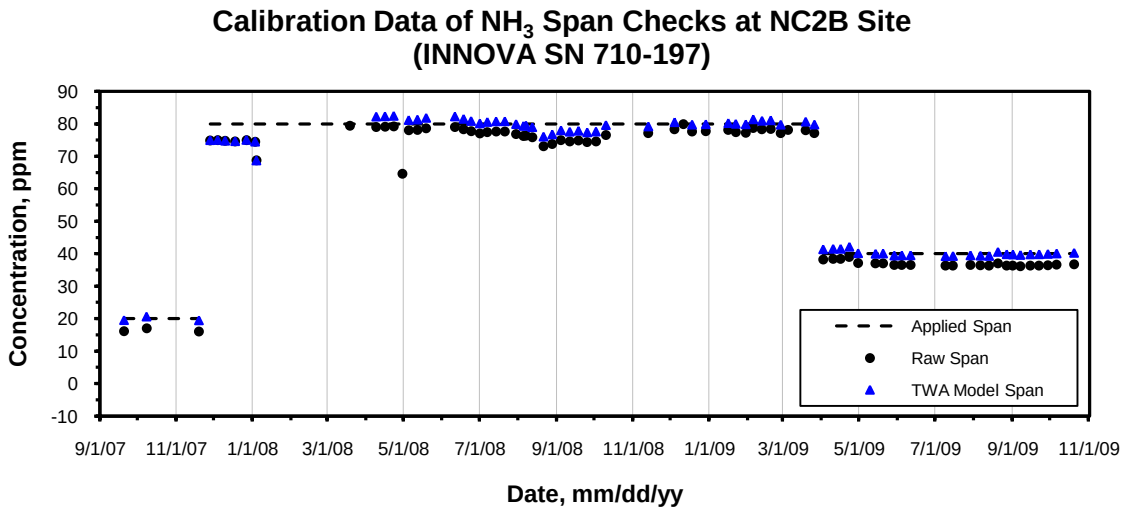
## APPENDIX B: MAINTENANCE AND CALIBRATION ACTIVITIES.

| Maintenance and Calibration Tasks | |
|---|---|
| **Category** | **Times completed** |
| **Environment Sensing and Other** | |
| Clean RH/T probe | 28 |
| Calibration check of RH/T probe | 11 |
| Calibration check of thermocouples | 5 |
| Performance check of weather station | 3 |
| Direction verification of wind indicator | 1 |
| Clean solar sensor | 1 |
| Check solar sensor with collocated sensor | 0 |
| Clean motion sensors | 8 |
| **Air Flow Measurement System** | |
| Fan test events | 5 |
| Zero check of pressure sensors (ΔP) | 4 |
| Multipoint calibration of pressures sensors (ΔP) | 4 |
| Drift & accuracy check of anemometer(s) | 2 |
| **Particulate Matter Measurement System** | |
| Clean TOEM screens | 81 |
| Check/clean TEOM inlet head(s) | 80 |
| Replace TEOM filters | 48 |
| Verify TEOM mass transducer calibration | 2 |
| Leak test of TEOM | 18 |
| Verify TEOM flow rate & MFC accuracy | 13 |
| Change TEOM in-line filters | 6 |
| Check/clean Beta Gauge inlet head | 7 |
| Check Beta Gauge airflow | 2 |
| Validate Beta Gauge mass w/foil set | 1 |
| Calibrate Beta Gauge mass & airflow | 3 |
| **Gas Measurement System** | |
| Clean/replace GSS membrane filters | 6 |
| Leak check of GSS | 6 |
| Calibration check of all lines | 4 |
| Replace GSS filters | 3 |
| Calibrate GSS pressure and flow sensors | 1 |
| Flow calibration/check MFC flow of Environics Dilutor | 4 |
| Precision check of Multigas Analyzer | 86 |
| Multipoint calibration of Multigas Analyzer | 14 |
| Precision check of TEC 450I | 81 |
| Multipoint calibration of TEC 450I | 17 |

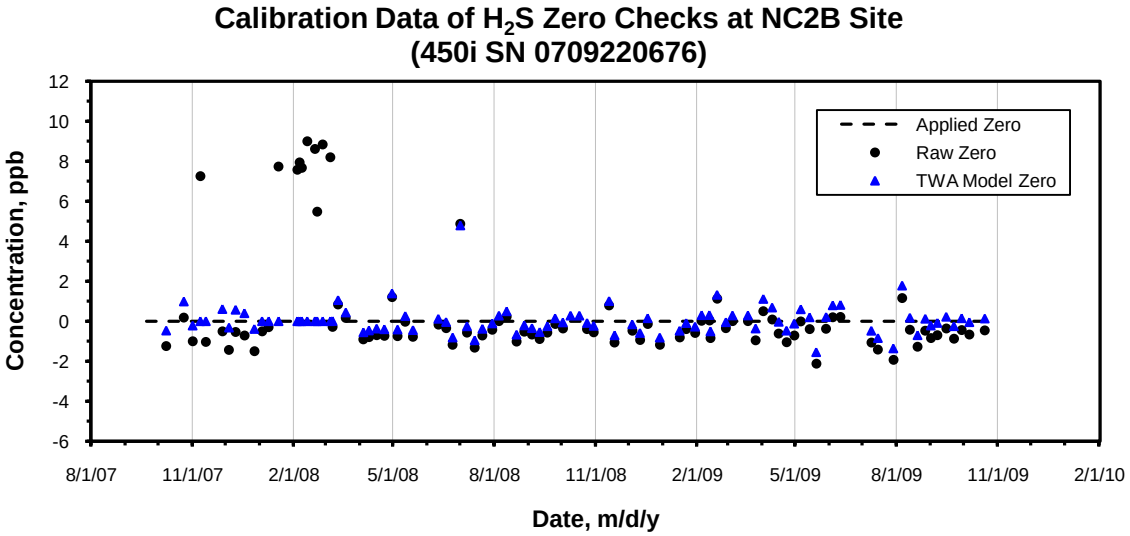
## APPENDIX C. GAS ANALYZER AND SPAN CHECKS

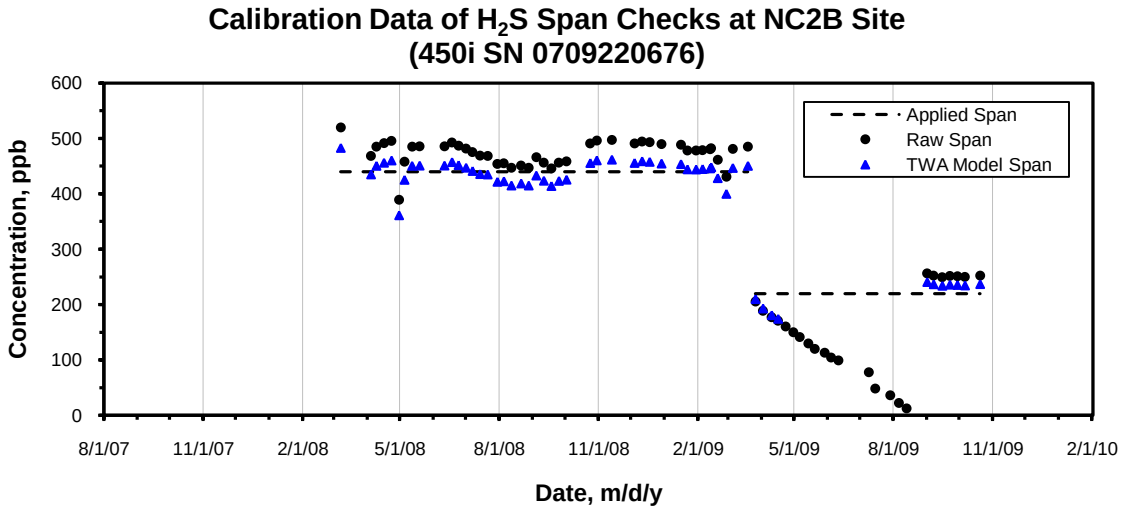
### AMMONIA



## HYDROGEN SULFIDE



## APPENDIX D: BIOMATERIALS CHARACTERISTICS

**Table F1. Layer manure characteristics (mean ± SD).**

| House | Date | n | pH (SU) | Percent (wet weight basis) | |
|---|---|---|---|---|---|
| | | | | Solids | Ammonia |
| 3 | 1/16/08 | 12 | 7.85 ± 0.24 | 42.5 ± 1.52 | 0.32 ± 0.03 |
| 3 | 6/13/08 | 12 | 8.77 ± 0.11 | 49.0 ± 3.60 | 0.85 ± 0.21 |
| 3 | 11/13/08 | 12 | 8.38 ± 0.33 | 49.6 ± 4.47 | 0.52 ± 0.10 |
| 3 | 11/18/08 | 36 | 7.51 ± 0.57 | 36.2 ± 5.12 | 0.49 ± 0.11 |
| 3 | 3/13/09 | 13 | 8.32 ± 0.50 | 41.0 ± 2.98 | 0.29 ± 0.11 |
| 3 | 8/13/09 | 24 | 8.28 ± 0.27 | 40.2 ± 4.98 | 0.45 ± 0.10 |
| 4 | 1/16/08 | 12 | 7.57 ± 0.16 | 43.1 ± 1.48 | 0.28 ± 0.02 |
| 4 | 6/13/08 | 12 | 7.65 ± 0.36 | 89.2 ± 0.66 | 0.10 ± 0.05 |
| 4 | 11/13/08 | 12 | 8.17 ± 0.51 | 52.8 ± 8.06 | 0.51 ± 0.13 |
| 4 | 3/13/09 | 13 | 8.22 ± 0.48 | 42.3 ± 4.86 | 0.43 ± 0.12 |
| 4 | 8/13/09 | 24 | 8.55 ± 0.12 | 40.9 ± 5.44 | 0.68 ± 0.29 |

**Table F2. Loadout manure characteristics (mean ± SD).**

| House | Date | n | Percent (wet weight basis) | | |
|---|---|---|---|---|---|
| | | | TKN | Solids | Ammonia |
| 3 | 3/31/08 | 12 | 2.48 ± 0.41 | 75.9 ± 3.75 | 153 ± 61.1 |
| 3 | 3/24/09 | 5 | 3.23 ± 0.65 | 80.4 ± 2.60 | 336 ± 86.2 |
| 3 | 3/26/09 | 5 | 2.27 ± 0.83 | 77.1 ± 0.77 | 691 ± 42.0 |
| 4 | 3/31/08 | 12 | 2.29 ± 0.16 | 74.7 ± 4.18 | 148 ± 49.2 |
| 4 | 3/24/09 | 5 | 2.41 ± 0.91 | 75.2 ± 1.80 | 768 ± 57.1 |
| 4 | 3/26/09 | 5 | 2.53 ± 0.44 | 77.6 ± 1.16 | 779 ± 176 |

**Table F3. Water characteristics (mean ± SD).**

| House | Date | n | Percent (wet weight basis) | | |
|---|---|---|---|---|---|
| | | | Total N (TKN + NO3) | Kjeldahl Nitrogen | Phosphorus (total) |
| 3 & 4 | 1/16/08 | 2 | 0.03 ± 0.00 | 12.0 ± 8.56 | 0.05 ± 0.00 |

## APPENDIX E. DAILY MEAN DATA

### Table E1. Daily means (SD) of weather parameters

**Table E1. Daily means (SD) of weather parameters at Site NC2B for September, 2007**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | 229 (84) | | |
| 8 | | | | 200 (75) | | |
| 9 | | | | 61 (88) | | |
| 10 | | | | 320 (113) | | |
| 11 | | | | 320 (85) | | |
| 12 | | | | 22 (127) | | |
| 13 | | | | | | |
| 14 | | | | 221 (84) | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | 127 (38) | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | 23.1 (6.6) | 61.6 (19.6) | 0.12 (0.12) | 295 (112) | 248 (313) | 101.2 (0.1) |
| 26 | 24.4 (5.5) | 65.3 (17.2) | 0.19 (0.19) | 275 (88) | 240 (305) | 100.8 (0.2) |
| 27 | 25.6 (4.8) | 67.9 (17.7) | 0.17 (0.14) | 275 (87) | 202 (285) | 100.4 (0.2) |
| 28 | 24.6 (4.1) | 56.8 (22.7) | 0.36 (0.25) | 38 (116) | 218 (296) | 100.5 (0.3) |
| 29 | 19.5 (5.4) | 51.6 (16.6) | 0.30 (0.30) | 75 (109) | 244 (311) | 101.6 (0.2) |
| 30 | 19.4 (7.1) | 58.3 (20.8) | 0.27 (0.26) | 122 (92) | 238 (305) | 102.0 (0.1) |
| Mean | 22.8 | 60.2 | 0.24 | 307.0 | 231 | 101.1 |
| n | 6 | 6 | 6 | 14 | 6 | 6 |
| SD | 2.5 | 5.4 | 0.08 | 104.0 | 16 | 0.6 |
| Min | 19.4 | 51.6 | 0.12 | 22.0 | 202 | 100.4 |
| Max | 25.6 | 67.9 | 0.36 | 320.0 | 248 | 102.0 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for October, 2007**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 20.7 (6.1) | 63.9 (18.2) | 0.21 (0.17) | 151.0 (100.0) | 211.0 (305.0) | 101.7 (0.2) |
| 2 | 23.4 (4.4) | 70.2 (14.5) | 0.26 (0.19) | 153 (57) | 170 (254) | 101.3 (0.2) |
| 3 | 24.5 (5.0) | 74.1 (13.6) | 0.14 (0.10) | 85 (98) | 132 (218) | 100.9 (0.1) |
| 4 | 26.2 (3.8) | 70.4 (16.1) | 0.25 (0.14) | 196 (45) | 161 (256) | 101.0 (0.1) |
| 5 | 23.8 (1.5) | 85.9 (3.5) | 0.18 (0.10) | 108 (71) | 47 (67) | 101.3 (0.1) |
| 6 | 24.8 (2.7) | 80.7 (10.0) | 0.17 (0.11) | 102 (76) | 102 (182) | 101.1 (0.2) |
| 7 | 25.2 (5.1) | 73.1 (17.5) | 0.13 (0.12) | 30 (120) | 195 (273) | 100.8 (0.1) |
| 8 | 26.9 (5.2) | 66.1 (17.7) | 0.12 (0.11) | 33 (122) | 195 (265) | 100.5 (0.2) |
| 9 | 27.6 (4.9) | 59.0 (16.7) | 0.21 (0.17) | 349 (140) | 182 (256) | 100.1 (0.2) |
| 10 | 24.3 (3.1) | 66.5 (16.3) | 0.26 (0.20) | 317 (119) | 176 (264) | 99.6 (0.2) |
| 11 | 17.5 (3.2) | 50.3 (13.3) | 0.40 (0.21) | 35 (124) | | 99.6 (0.2) |
| 12 | 15.1 (5.7) | 55.9 (15.7) | 0.24 (0.18) | 18 (147) | 214 (282) | 100.1 (0.2) |
| 13 | 14.8 (5.6) | 59.7 (19.2) | 0.15 (0.17) | 24 (140) | 210 (278) | 100.6 (0.1) |
| 14 | 15.4 (6.6) | 62.6 (20.3) | 0.16 (0.17) | 48 (111) | 202 (268) | 100.9 (0.1) |
| 15 | 17.2 (7.1) | 63.2 (19.5) | 0.10 (0.11) | 6 (115) | 195 (261) | 101.2 (0.1) |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | 21.9 (3.4) | 84.1 (5.6) | 0.18 (0.18) | 246 (85) | 86 (160) | 100.3 (0.2) |
| 19 | 24.9 (1.6) | 80.7 (9.2) | 0.45 (0.26) | 293 (36) | 94 (166) | 99.6 (0.2) |
| 20 | 20.3 (4.3) | 63.9 (20.5) | 0.27 (0.24) | 17 (145) | 197 (266) | 100.2 (0.4) |
| 21 | 17.2 (6.8) | 63.0 (23.4) | 0.15 (0.17) | 354 (119) | 193 (269) | 101.3 (0.2) |
| 22 | 20.6 (5.7) | 67.7 (14.9) | 0.17 (0.18) | 257 (96) | 157 (245) | 101.3 (0.2) |
| 23 | 23.8 (4.1) | 71.8 (12.8) | 0.37 (0.31) | 272 (51) | 143 (205) | 100.3 (0.3) |
| 24 | 24.0 (1.9) | 85.2 (4.4) | 0.36 (0.21) | 259 (60) | 51 (101) | 100.0 (0.1) |
| 25 | 18.3 (1.4) | 89.8 (1.1) | 0.50 (0.19) | 120 (32) | 23 (34) | 100.7 (0.3) |
| 26 | 21.4 (2.0) | 90.6 (1.0) | 0.23 (0.13) | 173 (63) | 22 (33) | 101.0 (0.1) |
| 27 | 20.1 (2.9) | 76.2 (12.8) | 0.30 (0.16) | 353 (149) | 138 (203) | 101.0 (0.2) |
| 28 | 13.3 (3.2) | 67.2 (11.1) | 0.31 (0.25) | 83 (94) | 116 (173) | 101.8 (0.2) |
| 29 | 10.2 (4.6) | 62.0 (18.0) | 0.22 (0.18) | 84 (69) | 187 (255) | 102.2 (0.1) |
| 30 | 9.8 (7.0) | 67.7 (21.7) | 0.09 (0.10) | 30 (115) | 187 (255) | 102.0 (0.1) |
| 31 | 14.0 (7.7) | 71.1 (15.2) | 0.11 (0.13) | 330 (113) | 179 (245) | 101.6 (0.3) |
| Mean | 20.2 | 70.4 | 0.23 | 29.0 | 149 | 100.8 |
| n | 29 | 29 | 29 | 29 | 28 | 29 |
| SD | 4.9 | 10.1 | 0.11 | 119.0 | 58 | 0.7 |
| Min | 9.8 | 50.3 | 0.09 | 6.0 | 22 | 99.6 |
| Max | 27.6 | 90.6 | 0.50 | 354.0 | 214 | 102.2 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for November, 2007**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 17.4 (5.7) | 69.5 (16.6) | 0.20 (0.22) | 44.0 (115.0) | 162.0 (233.0) | 100.9 (0.2) |
| 2 | 13.8 (2.3) | 55.0 (7.5) | 0.72 (0.22) | 110 (40) | 172 (238) | 100.9 (0.2) |
| 3 | 11.7 (3.9) | 62.9 (15.2) | 0.39 (0.28) | 52 (96) | 174 (246) | 100.3 (0.1) |
| 4 | 10.6 (5.5) | 59.1 (19.5) | 0.15 (0.16) | 14 (153) | 170 (237) | 100.5 (0.1) |
| 5 | 11.8 (5.6) | 52.3 (20.1) | 0.22 (0.16) | 338 (132) | 170 (238) | 100.6 (0.2) |
| 6 | 13.2 (3.5) | 46.6 (9.5) | 0.51 (0.24) | 11 (129) | 108 (178) | 100.3 (0.3) |
| 7 | 6.6 (4.6) | 55.9 (15.8) | 0.22 (0.20) | 30 (133) | 170 (237) | 101.1 (0.1) |
| 8 | 6.0 (4.5) | 64.4 (17.8) | 0.11 (0.11) | 38 (119) | 124 (176) | 101.2 (0.1) |
| 9 | 8.3 (4.3) | 65.0 (16.6) | 0.12 (0.15) | 306 (117) | 122 (200) | 100.7 (0.3) |
| 10 | 7.7 (3.2) | 75.9 (11.0) | 0.33 (0.30) | 64 (105) | 93 (138) | 100.7 (0.4) |
| 11 | 7.0 (5.3) | 70.9 (18.1) | 0.13 (0.15) | 44 (113) | 152 (217) | 101.6 (0.1) |
| 12 | 10.5 (5.9) | 64.7 (14.7) | 0.34 (0.27) | 325 (109) | 115 (179) | 101.4 (0.2) |
| 13 | 16.5 (3.8) | 62.2 (11.7) | 0.22 (0.16) | 342 (130) | 104 (157) | 100.7 (0.2) |
| 14 | | | | | | |
| 15 | 12.6 (4.4) | 70.8 (13.4) | 0.52 (0.22) | 357 (135) | 23 (47) | 99.6 (0.3) |
| 16 | 5.6 (3.3) | 57.4 (16.7) | 0.34 (0.28) | 19 (143) | 157 (223) | 100.5 (0.2) |
| 17 | 9.4 (4.6) | 61.3 (21.5) | 0.20 (0.27) | 303 (112) | 140 (212) | 100.9 (0.1) |
| 18 | 10.7 (7.1) | 66.4 (18.8) | 0.10 (0.13) | 48 (119) | 140 (208) | 101.1 (0.2) |
| 19 | 10.8 (2.2) | 79.0 (5.9) | 0.21 (0.14) | 95 (84) | 52 (87) | 101.4 (0.1) |
| 20 | 13.0 (3.6) | 78.8 (9.7) | 0.22 (0.21) | 298 (106) | 108 (178) | 101.2 (0.2) |
| 21 | 16.3 (6.7) | 64.4 (18.0) | 0.32 (0.30) | 9 (133) | 128 (202) | 100.7 (0.2) |
| 22 | 19.9 (3.1) | 60.2 (7.9) | 0.77 (0.29) | 8 (84) | 98 (148) | 100.2 (0.2) |
| 23 | 8.9 (3.2) | 47.2 (9.3) | 0.42 (0.26) | 178 (48) | 122 (187) | 101.2 (0.4) |
| 24 | 5.6 (4.1) | 57.9 (15.0) | 0.16 (0.15) | 181 (78) | 146 (211) | 102.0 (0.2) |
| 25 | 7.9 (2.2) | 73.4 (9.8) | 0.15 (0.11) | 221 (70) | 25 (43) | 101.6 (0.2) |
| 26 | 14.3 (4.5) | 88.8 (1.1) | 0.27 (0.24) | 349 (121) | 33 (53) | 100.8 (0.3) |
| 27 | 16.0 (3.5) | 59.4 (17.9) | 0.46 (0.22) | 55 (129) | 96 (164) | 100.9 (0.4) |
| 28 | 8.8 (4.2) | 51.1 (14.8) | 0.23 (0.21) | 182 (93) | | 101.8 (0.1) |
| 29 | | | | | | |
| 30 | 7.1 (4.6) | 51.2 (21.7) | 0.15 (0.15) | 63 (116) | 134 (194) | 101.5 (0.1) |
| Mean | 11.0 | 63.3 | 0.29 | 21.0 | 120 | 100.9 |
| n | 28 | 28 | 28 | 28 | 27 | 28 |
| SD | 3.8 | 9.9 | 0.17 | 127.0 | 44 | 0.5 |
| Min | 5.6 | 46.6 | 0.10 | 8.0 | 23 | 99.6 |
| Max | 19.9 | 88.8 | 0.77 | 357.0 | 174 | 102.0 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for December, 2007**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 8.0 (4.8) | 48.9 (17.9) | 0.25 (0.19) | 147.0 (86.0) | 120.0 (177.0) | 101.9 (0.2) |
| 2 | 8.9 (4.3) | 65.0 (10.9) | 0.26 (0.21) | 320 (98) | 53 (98) | 101.4 (0.6) |
| 3 | 12.1 (4.7) | 56.7 (22.8) | 0.67 (0.29) | 21 (150) | 123 (189) | 100.1 (0.3) |
| 4 | 5.2 (1.7) | 40.0 (8.1) | 0.37 (0.21) | 17 (153) | 54 (84) | 100.1 (0.1) |
| 5 | 6.8 (2.7) | 51.5 (11.0) | 0.18 (0.17) | 223 (83) | 52 (82) | 99.6 (0.3) |
| 6 | | 54.2 (13.5) | 0.38 (0.29) | 142 (70) | 132 (200) | 101.4 (0.4) |
| 7 | | 64.8 (11.9) | 0.13 (0.14) | 350 (121) | 71 (126) | 101.6 (0.2) |
| 8 | 14.2 (5.6) | 61.7 (8.5) | 0.24 (0.18) | 10 (116) | 110 (166) | 101.4 (0.1) |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | 13.5 (1.2) | 86.9 (3.7) | 0.17 (0.13) | 171 (72) | 36 (52) | 101.4 (0.2) |
| 12 | 19.5 (3.9) | 72.9 (13.9) | 0.54 (0.34) | 320 (96) | 119 (177) | 100.9 (0.1) |
| 13 | 16.2 (3.8) | 72.8 (8.2) | 0.41 (0.23) | 256 (94) | 67 (117) | 100.7 (0.3) |
| 14 | 14.8 (3.3) | 63.9 (16.5) | 0.17 (0.16) | 62 (102) | 126 (187) | 101.0 (0.2) |
| 15 | 6.3 (0.9) | 80.3 (7.0) | 0.54 (0.17) | 134 (38) | 13 (21) | 101.1 (0.6) |
| 16 | 6.0 (2.5) | 71.1 (20.4) | 0.58 (0.34) | 9 (155) | 82 (148) | 99.2 (0.4) |
| 17 | 2.4 (2.8) | 50.2 (11.9) | 0.33 (0.22) | 4 (156) | 131 (191) | 101.0 (0.4) |
| 18 | 1.2 (5.1) | 59.8 (17.6) | 0.07 (0.07) | 348 (116) | 116 (182) | 101.8 (0.1) |
| 19 | 3.4 (3.6) | 73.9 (10.4) | 0.16 (0.18) | 341 (124) | 52 (84) | 101.2 (0.2) |
| 20 | 6.0 (5.5) | 70.4 (15.6) | 0.13 (0.12) | 78 (110) | 122 (182) | 101.1 (0.1) |
| 21 | 7.6 (1.5) | 71.9 (3.3) | 0.51 (0.19) | 133 (36) | 37 (59) | 101.1 (0.1) |
| 22 | 11.3 (2.3) | 77.7 (5.1) | 0.46 (0.18) | 127 (34) | 46 (75) | 101.5 (0.1) |
| 23 | 14.9 (4.0) | 84.5 (6.9) | 0.50 (0.32) | 275 (81) | 46 (91) | 100.6 (0.4) |
| 24 | 8.4 (4.0) | 53.9 (16.9) | 0.23 (0.19) | 356 (154) | 123 (187) | 100.8 (0.2) |
| 25 | 6.5 (4.2) | 66.1 (14.1) | 0.23 (0.18) | 102 (88) | 81 (131) | 101.2 (0.1) |
| 26 | 5.5 (0.9) | 85.6 (5.6) | 0.56 (0.24) | 85 (59) | 16 (28) | 100.5 (0.2) |
| 27 | 7.5 (4.0) | 79.4 (10.4) | 0.20 (0.22) | 341 (127) | 101 (158) | 100.8 (0.2) |
| 28 | 10.9 (5.9) | 78.7 (10.3) | 0.23 (0.18) | 233 (84) | 74 (131) | 101.2 (0.2) |
| 29 | 19.3 (2.5) | 81.1 (4.9) | 0.51 (0.29) | 314 (98) | 48 (84) | 100.5 (0.1) |
| 30 | 11.4 (2.1) | 89.3 (2.9) | 0.35 (0.18) | 162 (60) | 6 (13) | 100.4 (0.3) |
| 31 | | | | | | |
| Mean | 9.5 | 68.3 | 0.33 | 22.0 | 77 | 100.9 |
| n | 26 | 28 | 28 | 28 | 28 | 28 |
| SD | 4.8 | 12.8 | 0.16 | 121.0 | 39 | 0.6 |
| Min | 1.2 | 40.0 | 0.07 | 4.0 | 6 | 99.2 |
| Max | 19.5 | 89.3 | 0.67 | 356.0 | 132 | 101.9 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for January, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | -0.5 (5.7) | 51.7 (19.8) | 0.32 (0.27) | 323 (121) | 132 (193) | 102.7 (0.3) |
| 5 | 5.0 (4.1) | 43.4 (11.3) | 0.33 (0.24) | 302 (65) | 102 (157) | 101.9 (0.2) |
| 6 | 13.6 (4.3) | 57.8 (7.4) | 0.42 (0.26) | 306 (50) | 125 (188) | 101.5 (0.1) |
| 7 | 14.7 (5.5) | 70.5 (13.8) | 0.29 (0.26) | 287 (84) | 127 (185) | 101.6 (0.1) |
| 8 | 17.5 (3.4) | 75.8 (12.1) | 0.46 (0.23) | 294 (21) | 98 (168) | 101.2 (0.3) |
| 9 | 17.5 (2.5) | 70.5 (12.9) | 0.45 (0.31) | 327 (110) | 59 (112) | 100.6 (0.1) |
| 10 | 12.9 (1.6) | 60.3 (10.5) | 0.21 (0.13) | 165 (47) | 42 (67) | 100.7 (0.3) |
| 11 | 18.5 (2.1) | 76.5 (8.9) | 0.71 (0.42) | 305 (69) | 65 (121) | 99.7 (0.1) |
| 12 | 10.2 (2.2) | 62.9 (6.9) | 0.32 (0.20) | 113 (56) | 58 (83) | 100.5 (0.2) |
| 13 | 7.3 (1.3) | 77.4 (2.6) | 0.26 (0.13) | 90 (68) | 28 (45) | 100.4 (0.2) |
| 14 | 4.9 (3.7) | 64.0 (21.0) | 0.21 (0.20) | 19 (142) | 109 (175) | 100.3 (0.1) |
| 15 | 1.1 (3.4) | 52.3 (16.6) | 0.26 (0.31) | 11 (148) | 119 (175) | 100.6 (0.2) |
| 16 | 1.8 (4.2) | 53.2 (10.4) | 0.12 (0.12) | 70 (112) | 110 (168) | 101.5 (0.2) |
| 17 | 3.4 (0.8) | 80.6 (13.1) | 0.40 (0.18) | 128 (67) | 8 (13) | 100.8 (0.5) |
| 18 | 5.6 (3.7) | 80.9 (12.9) | 0.32 (0.14) | 337 (132) | 101 (170) | 100.6 (0.2) |
| 19 | 4.3 (1.7) | 89.2 (1.8) | 0.24 (0.14) | 51 (107) | 17 (32) | 100.6 (0.2) |
| 20 | -1.2 (2.3) | 52.4 (23.0) | 0.43 (0.33) | 31 (126) | 154 (220) | 101.5 (0.7) |
| 21 | -3.1 (4.2) | 48.4 (16.5) | 0.14 (0.14) | 112 (100) | 152 (217) | 102.9 (0.2) |
| 22 | 2.2 (5.1) | 69.5 (11.8) | 0.19 (0.14) | 2 (151) | 64 (108) | 101.5 (0.6) |
| 23 | 7.2 (3.6) | 73.9 (18.3) | 0.19 (0.15) | 15 (145) | 139 (213) | 100.6 (0.1) |
| 24 | 3.6 (2.1) | 67.3 (19.1) | 0.39 (0.32) | 58 (94) | 68 (116) | 100.4 (0.3) |
| 25 | -0.5 (2.8) | 46.6 (12.8) | 0.31 (0.24) | 62 (109) | 160 (224) | 101.9 (0.2) |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | 3.4 (5.9) | 62.2 (17.9) | 0.13 (0.15) | 12 (143) | 154 (222) | 100.9 (0.2) |
| 29 | 11.1 (5.0) | 48.8 (12.9) | 0.55 (0.32) | 298 (67) | 106 (165) | 100.1 (0.3) |
| 30 | 10.4 (4.9) | 50.8 (21.9) | 0.58 (0.39) | 353 (137) | 151 (231) | 100.1 (0.7) |
| 31 | 4.2 | 47.3 | 0.49 | 127.0 | 146 | 101.8 |
| Mean | 6.7 | 62.8 | 0.34 | 14.0 | 100 | 101.0 |
| n | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 6.1 | 12.6 | 0.14 | 127.0 | 45 | 0.8 |
| Min | -3.1 | 43.4 | 0.12 | 2.0 | 8 | 99.7 |
| Max | 18.5 | 89.2 | 0.71 | 353.0 | 160 | 102.9 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for February, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 9.2 (4.6) | 78.2 (13.9) | 0.47 (0.38) | 345.0 (123.0) | 34.0 (74.0) | 100.5 (0.4) |
| 2 | 8.2 (5.2) | 66.0 (17.4) | 0.15 (0.13) | 324 (120) | 153 (213) | 101.2 (0.2) |
| 3 | 11.5 (5.9) | 58.1 (22.9) | 0.13 (0.13) | 122 (94) | 157 (230) | 101.1 (0.1) |
| 4 | 14.3 (5.2) | 65.7 (10.2) | 0.21 (0.17) | 290 (98) | 125 (185) | 101.1 (0.1) |
| 5 | 18.5 (3.6) | 70.7 (11.1) | 0.58 (0.25) | 310 (51) | 106 (163) | 100.6 (0.3) |
| 6 | 21.6 (2.7) | 65.2 (12.4) | 1.05 (0.34) | 304 (17) | 112 (171) | 99.7 (0.4) |
| 7 | 14.6 (4.0) | 46.1 (15.1) | 0.49 (0.39) | 4 (151) | 178 (246) | 99.8 (0.3) |
| 8 | 7.4 (4.8) | 66.6 (16.9) | 0.18 (0.19) | 36 (126) | 172 (238) | 100.2 (0.2) |
| 9 | 11.8 (5.3) | 59.5 (24.5) | 0.41 (0.30) | 290 (94) | 170 (240) | 100.1 (0.2) |
| 10 | 11.9 (3.7) | 27.9 (4.4) | 0.85 (0.41) | 351 (146) | 176 (246) | 100.3 (0.2) |
| 11 | 2.5 (3.3) | 28.5 (11.0) | 0.23 (0.19) | 58 (113) | 178 (246) | 101.5 (0.2) |
| 12 | 8.0 (6.2) | 59.6 (9.2) | 0.23 (0.15) | 155 (60) | 80 (131) | 101.0 (0.5) |
| 13 | 13.2 (4.7) | 87.2 (3.7) | 0.49 (0.21) | 335 (109) | 39 (77) | 99.1 (0.4) |
| 14 | 4.7 (3.8) | 65.0 (18.9) | 0.27 (0.21) | 23 (126) | 187 (256) | 100.9 (0.5) |
| 15 | 10.0 (5.2) | 55.6 (18.0) | 0.40 (0.22) | 309 (65) | 143 (204) | 101.1 (0.2) |
| 16 | 10.5 (2.1) | 58.0 (7.0) | 0.39 (0.23) | 148 (64) | | 101.2 (0.2) |
| 17 | | | | | | |
| 18 | 18.3 (3.3) | 64.2 (22.6) | 0.77 (0.33) | 319 (117) | 101 (183) | 99.3 (0.3) |
| 19 | 7.5 (3.4) | 44.4 (15.6) | 0.43 (0.43) | 346 (137) | 192 (273) | 100.4 (0.1) |
| 20 | 8.5 (7.1) | 53.8 (20.6) | 0.49 (0.46) | 327 (108) | 179 (253) | 100.7 (0.3) |
| 21 | 2.7 (1.7) | 50.8 (12.9) | 0.49 (0.22) | 150 (38) | 130 (193) | 101.6 (0.2) |
| 22 | 3.2 (1.6) | 87.8 (3.2) | 0.31 (0.11) | 56 (116) | 32 (55) | 100.3 (0.4) |
| 23 | 9.1 (2.3) | 85.8 (4.1) | 0.21 (0.16) | 74 (108) | 50 (81) | 100.1 (0.3) |
| 24 | 6.4 (2.1) | 66.8 (15.2) | 0.29 (0.20) | 142 (86) | 145 (238) | 100.9 (0.2) |
| 25 | 8.8 (3.9) | 70.3 (15.3) | 0.19 (0.16) | 355 (125) | 196 (277) | 100.3 (0.1) |
| 26 | 12.5 (3.4) | 82.2 (4.9) | 0.39 (0.28) | 283 (81) | 43 (65) | 99.0 (0.6) |
| 27 | 5.1 (2.8) | 48.3 (9.2) | 0.52 (0.22) | 13 (156) | 153 (228) | 99.5 (0.5) |
| 28 | 0.5 (3.3) | 45.5 (12.4) | 0.31 (0.25) | 2 (154) | 210 (282) | 101.2 (0.4) |
| 29 | 5.6 (6.3) | 49.2 (19.4) | 0.39 (0.31) | 297 (99) | 201 (277) | 101.7 (0.3) |
| Mean | 9.5 | 61.0 | 0.40 | 350.0 | 135 | 100.5 |
| n | 28 | 28 | 28 | 28 | 27 | 28 |
| SD | 5.0 | 15.2 | 0.21 | 129.0 | 55 | 0.7 |
| Min | 0.5 | 27.9 | 0.13 | 2.0 | 32 | 99.0 |
| Max | 21.6 | 87.8 | 1.05 | 355.0 | 210 | 101.7 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for March, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 12.0 (3.9) | 42.2 (15.3) | 0.56 (0.35) | 343.0 (144.0) | 206.0 (280.0) | 100.8 (0.2) |
| 2 | 9.0 (5.0) | 47.3 (14.9) | 0.18 (0.16) | 235 (91) | 216 (285) | 101.4 (0.2) |
| 3 | 13.6 (7.2) | 66.3 (11.9) | 0.45 (0.34) | 262 (59) | 177 (259) | 101.2 (0.3) |
| 4 | | | | | | |
| 5 | 14.3 (2.9) | 58.9 (15.8) | 0.46 (0.29) | 355 (154) | 227 (295) | 99.7 (0.5) |
| 6 | 12.2 (5.6) | 63.6 (14.7) | 0.21 (0.15) | 119 (95) | 223 (293) | 100.7 (0.1) |
| 7 | 13.0 (4.7) | 88.7 (2.5) | 0.36 (0.24) | 179 (69) | 19 (28) | 100.0 (0.6) |
| 8 | 14.6 (5.7) | 64.1 (21.5) | 0.97 (0.57) | 309 (101) | 131 (236) | 99.2 (0.6) |
| 9 | 4.7 (4.1) | 45.2 (15.4) | 0.33 (0.22) | 9 (156) | 240 (308) | 101.4 (0.3) |
| 10 | 8.7 (6.2) | 53.3 (19.2) | 0.29 (0.22) | 274 (97) | 230 (298) | 101.6 (0.3) |
| 11 | 12.9 (4.3) | 53.7 (15.2) | 0.23 (0.17) | 334 (122) | 189 (259) | 100.6 (0.4) |
| 12 | 13.1 (4.7) | 47.1 (17.6) | 0.34 (0.28) | 10 (149) | 241 (309) | |
| 13 | 15.3 (6.8) | 47.6 (16.0) | 0.36 (0.23) | 263 (83) | 228 (299) | |
| 14 | 17.4 (3.5) | 45.0 (8.8) | 0.59 (0.30) | 297 (13) | 175 (263) | |
| 15 | 15.6 (3.4) | 63.8 (19.1) | 0.36 (0.20) | 1 (111) | 173 (262) | |
| 16 | 12.1 (2.5) | 67.7 (18.4) | 0.46 (0.23) | 82 (65) | 142 (236) | |
| 17 | 7.6 (4.3) | 49.9 (17.6) | 0.32 (0.28) | 106 (92) | 242 (318) | |
| 18 | 9.5 (5.1) | 64.0 (13.0) | 0.24 (0.19) | 252 (76) | 96 (120) | |
| 19 | 19.9 (3.7) | 69.0 (11.1) | 0.93 (0.39) | 295 (16) | 132 (200) | |
| 20 | 13.4 (3.6) | 44.2 (17.0) | 0.73 (0.42) | 22 (137) | 259 (328) | 100.0 (0.7) |
| 21 | 11.6 (6.4) | 38.7 (19.3) | 0.27 (0.21) | 341 (135) | 252 (314) | 100.9 (0.3) |
| 22 | 16.4 (5.1) | 46.7 (13.1) | 0.74 (0.26) | 330 (102) | 236 (306) | 100.0 (0.3) |
| 23 | 9.8 (3.5) | 44.4 (13.4) | 0.35 (0.21) | 144 (62) | 258 (323) | 100.7 (0.1) |
| 24 | 7.3 (3.1) | 58.4 (14.9) | 0.43 (0.23) | 80 (53) | 170 (253) | 100.9 (0.1) |
| 25 | 8.0 (4.7) | 48.1 (21.3) | 0.40 (0.20) | 352 (126) | 261 (326) | 101.4 (0.2) |
| 26 | 15.0 (5.7) | 41.8 (12.0) | 0.74 (0.22) | 312 (44) | 246 (312) | 101.0 (0.2) |
| 27 | 18.0 (4.8) | 43.9 (11.7) | 0.64 (0.32) | 302 (23) | 239 (300) | 100.4 (0.3) |
| 28 | 21.3 (4.6) | 54.4 (12.6) | 0.57 (0.40) | 321 (106) | 226 (297) | 100.1 (0.1) |
| 29 | 9.4 (2.6) | 67.8 (8.8) | 0.50 (0.25) | 145 (40) | 44 (59) | 101.5 (0.4) |
| 30 | 7.3 (0.6) | 79.8 (11.6) | 0.49 (0.14) | 139 (33) | 27 (35) | 102.1 (0.1) |
| 31 | 14.5 | 88.0 | 0.31 | 204.0 | 54 | 101.5 |
| Mean | 12.6 | 56.5 | 0.46 | 323.0 | 185 | 100.8 |
| n | 30 | 30 | 30 | 30 | 30 | 22 |
| SD | 3.9 | 13.2 | 0.20 | 115.0 | 72 | 0.7 |
| Min | 4.7 | 38.7 | 0.18 | 1.0 | 19 | 99.2 |
| Max | 21.3 | 88.7 | 0.97 | 355.0 | 261 | 102.1 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for April, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 20.7 (2.5) | 81.1 (8.1) | 0.63 (0.26) | 295.0 (31.0) | 122.0 (195.0) | 100.6 (0.2) |
| 2 | 16.0 (2.6) | 54.8 (19.4) | 0.51 (0.24) | 130 (78) | 234 (297) | 101.2 (0.4) |
| 3 | 10.6 (1.3) | 67.1 (16.2) | 0.41 (0.17) | 155 (45) | 45 (66) | 101.5 (0.4) |
| 4 | 15.9 (6.1) | 82.1 (8.7) | 0.45 (0.33) | 323 (115) | 138 (204) | 100.2 (0.3) |
| 5 | 18.2 (1.1) | 89.0 (3.1) | 0.36 (0.19) | 204 (87) | 30 (42) | 100.1 (0.1) |
| 6 | 12.5 (1.3) | 89.2 (2.3) | 0.49 (0.13) | 121 (36) | 32 (44) | 100.5 (0.3) |
| 7 | 10.6 (1.3) | 86.2 (3.7) | 0.49 (0.13) | 125 (33) | 76 (111) | 101.0 (0.1) |
| 8 | 12.2 (2.5) | 80.6 (8.3) | 0.44 (0.13) | 110 (33) | 112 (164) | 101.1 (0.1) |
| 9 | 16.1 (4.0) | 76.4 (12.5) | 0.23 (0.15) | 112 (68) | 163 (219) | 101.0 (0.1) |
| 10 | 18.4 (5.7) | 73.4 (15.8) | 0.18 (0.17) | 275 (101) | 239 (317) | 100.7 (0.2) |
| 11 | 22.0 (4.5) | 69.5 (15.9) | 0.50 (0.31) | 288 (40) | 229 (302) | 100.1 (0.4) |
| 12 | 21.2 (2.3) | 67.7 (5.6) | 0.81 (0.24) | 313 (40) | 111 (159) | 99.3 (0.2) |
| 13 | 15.0 (2.9) | 51.4 (14.0) | 0.37 (0.23) | 21 (144) | 182 (264) | 99.6 (0.2) |
| 14 | 9.5 (3.4) | 63.7 (12.4) | 0.27 (0.24) | 72 (113) | 134 (181) | 100.3 (0.1) |
| 15 | 9.8 (5.1) | 54.6 (23.4) | 0.45 (0.39) | 71 (105) | 270 (324) | 100.8 (0.2) |
| 16 | 11.2 (7.7) | 49.8 (24.8) | 0.24 (0.25) | 68 (111) | 273 (324) | 101.1 (0.2) |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | 21.7 (4.3) | 49.0 (11.7) | 0.50 (0.23) | 288 (27) | 240 (300) | 100.2 (0.2) |
| 20 | 17.8 (3.1) | 78.0 (11.2) | 0.32 (0.18) | 353 (113) | 142 (256) | 99.9 (0.1) |
| 21 | 15.8 (2.4) | 79.6 (10.6) | 0.38 (0.26) | 109 (49) | 162 (259) | 100.2 (0.1) |
| 22 | | | | | | |
| 23 | 20.1 (3.2) | 73.2 (13.7) | 0.37 (0.22) | 133 (46) | 162 (238) | 100.8 (0.1) |
| 24 | 19.5 (5.9) | 68.2 (20.2) | 0.13 (0.14) | 344 (131) | 256 (315) | 100.9 (0.1) |
| 25 | 21.2 (5.0) | 63.0 (15.4) | 0.29 (0.24) | 303 (103) | 251 (307) | 100.7 (0.2) |
| 26 | 23.5 (4.4) | 62.7 (10.8) | 0.44 (0.21) | 309 (73) | 204 (273) | 100.4 (0.1) |
| 27 | 20.4 (2.2) | 75.7 (4.8) | 0.32 (0.20) | 128 (68) | 126 (178) | 100.5 (0.1) |
| 28 | 18.6 (1.9) | 57.6 (5.1) | 0.43 (0.25) | 303 (90) | 67 (96) | 99.7 (0.2) |
| 29 | 13.5 (2.3) | 55.2 (12.3) | 0.40 (0.27) | 25 (140) | 273 (332) | 100.0 (0.3) |
| 30 | 12.6 (5.2) | 57.0 (17.3) | 0.21 (0.18) | 51 (116) | 276 (335) | 100.7 (0.1) |
| Mean | 16.5 | 68.7 | 0.39 | 40.0 | 169 | 100.5 |
| n | 27 | 27 | 27 | 27 | 27 | 27 |
| SD | 4.2 | 12.1 | 0.14 | 108.0 | 78 | 0.5 |
| Min | 9.5 | 49.0 | 0.13 | 21.0 | 30 | 99.3 |
| Max | 23.5 | 89.2 | 0.81 | 353.0 | 276 | 101.5 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for May, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 17.8 (5.9) | 57.1 (12.9) | 0.46 (0.28) | 278.0 (35.0) | 258.0 (315.0) | 100.7 (0.2) |
| 2 | 21.5 (4.0) | 60.3 (11.1) | 0.61 (0.28) | 299 (22) | 270 (313) | 100.5 (0.2) |
| 3 | 22.2 (3.4) | 60.4 (12.8) | 0.64 (0.29) | 303 (32) | 259 (316) | 100.2 (0.2) |
| 4 | 23.3 (3.5) | 59.4 (15.7) | 0.28 (0.18) | 6 (131) | 231 (298) | 100.1 (0.1) |
| 5 | 20.0 (2.8) | 68.0 (11.3) | 0.29 (0.20) | 122 (62) | 188 (248) | 100.4 (0.1) |
| 6 | 19.4 (5.5) | 57.3 (15.7) | 0.13 (0.15) | 40 (119) | 247 (310) | 100.4 (0.1) |
| 7 | 21.5 (5.5) | 53.9 (13.8) | 0.45 (0.32) | 323 (116) | 259 (310) | 100.3 (0.2) |
| 8 | 21.5 (1.6) | 73.4 (2.5) | 0.58 (0.19) | 286 (24) | 93 (133) | 99.8 (0.2) |
| 9 | 23.8 (2.6) | 63.9 (10.9) | 0.58 (0.31) | 334 (126) | 192 (269) | 99.0 (0.1) |
| 10 | 19.7 (4.3) | 62.4 (11.1) | 0.39 (0.33) | 98 (97) | 247 (293) | 99.5 (0.3) |
| 11 | 14.1 (2.6) | 60.5 (7.8) | 0.34 (0.26) | 266 (108) | 50 (66) | 99.0 (0.8) |
| 12 | 13.6 (1.5) | 61.6 (6.1) | 0.53 (0.24) | 48 (121) | 119 (197) | 99.0 (0.6) |
| 13 | 15.3 (5.3) | 53.9 (14.7) | 0.39 (0.27) | 72 (83) | 268 (303) | 100.6 (0.2) |
| 14 | 17.5 (5.3) | 54.7 (12.3) | 0.32 (0.27) | 329 (124) | 205 (254) | 100.7 (0.2) |
| 15 | 21.1 (3.0) | 61.7 (7.5) | 0.43 (0.22) | 310 (69) | 166 (229) | 100.2 (0.1) |
| 16 | 21.6 (3.5) | 50.7 (9.4) | 0.53 (0.27) | 332 (124) | 170 (263) | 99.3 (0.3) |
| 17 | 18.4 (4.5) | 51.3 (12.2) | 0.42 (0.27) | 340 (135) | 264 (296) | 99.5 (0.2) |
| 18 | 19.0 (3.8) | 53.5 (9.5) | 0.58 (0.33) | 323 (81) | 195 (272) | 98.9 (0.2) |
| 19 | 18.9 (3.5) | 49.7 (10.7) | 0.33 (0.26) | 353 (152) | 253 (288) | 99.3 (0.2) |
| 20 | 20.5 (3.8) | 57.8 (6.3) | 0.52 (0.42) | 333 (119) | 153 (254) | 98.7 (0.3) |
| 21 | 18.0 (4.3) | 50.8 (8.2) | 0.24 (0.24) | 10 (151) | 231 (274) | 99.0 (0.1) |
| 22 | 18.4 (5.6) | 49.0 (12.3) | 0.28 (0.27) | 15 (145) | 263 (296) | 99.6 (0.2) |
| 23 | 18.8 (4.3) | 57.1 (9.9) | 0.15 (0.12) | 87 (99) | 175 (238) | 100.2 (0.1) |
| 24 | 18.8 (4.0) | 52.7 (8.9) | 0.27 (0.20) | 78 (86) | 220 (298) | 100.3 (0.1) |
| 25 | 19.5 (6.2) | 51.0 (11.8) | 0.17 (0.17) | 36 (120) | 256 (293) | 100.6 (0.1) |
| 26 | 22.4 (4.5) | 55.6 (10.5) | 0.53 (0.31) | 299 (45) | 253 (290) | 100.5 (0.2) |
| 27 | 24.8 (4.0) | 61.3 (5.8) | 0.58 (0.26) | 305 (51) | 232 (270) | 100.3 (0.1) |
| 28 | 17.6 (2.4) | 54.3 (7.9) | 0.38 (0.26) | 145 (85) | 49 (71) | 100.8 (0.3) |
| 29 | 18.1 (5.3) | 48.3 (8.6) | 0.13 (0.13) | 340 (117) | 262 (292) | 101.0 (0.2) |
| 30 | 22.4 (5.8) | 57.5 (3.3) | 0.28 (0.22) | 274 (75) | 220 (261) | 100.7 (0.2) |
| 31 | 26.2 | 56.3 | 0.56 | 309.0 | 193 | 100.1 |
| Mean | 19.9 | 56.9 | 0.40 | 343.0 | 208 | 100.0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 2.8 | 5.6 | 0.15 | 126.0 | 61 | 0.7 |
| Min | 13.6 | 48.3 | 0.13 | 6.0 | 49 | 98.7 |
| Max | 26.2 | 73.4 | 0.64 | 353.0 | 270 | 101.0 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for June, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 26.5 (3.9) | 54.9 (5.9) | 0.29 (0.19) | 352.0 (147.0) | 208.0 (266.0) | 99.9 (0.1) |
| 2 | 23.7 (4.1) | 49.0 (10.0) | 0.23 (0.20) | 96 (94) | 255 (290) | 100.2 (0.1) |
| 3 | 23.8 (4.2) | 55.6 (5.1) | 0.43 (0.23) | 264 (32) | 187 (233) | 100.2 (0.2) |
| 4 | 28.6 (4.2) | 58.3 (4.9) | 0.69 (0.23) | 306 (39) | 239 (276) | 99.8 (0.1) |
| 5 | 30.9 (3.7) | 59.8 (13.2) | 0.33 (0.21) | 323 (114) | 237 (277) | 100.3 (0.2) |
| 6 | 31.1 (4.5) | 60.3 (11.5) | 0.14 (0.14) | 334 (132) | 219 (263) | 100.7 (0.1) |
| 7 | 31.5 (4.6) | 57.9 (15.4) | 0.22 (0.18) | 340 (142) | 250 (279) | 100.6 (0.1) |
| 8 | 31.1 (4.9) | 61.5 (13.7) | 0.16 (0.14) | 349 (145) | 236 (271) | 100.3 (0.1) |
| 9 | 31.8 (5.2) | 58.3 (18.5) | 0.14 (0.14) | 30 (125) | 241 (277) | 100.1 (0.1) |
| 10 | 31.7 (4.1) | 55.2 (13.3) | 0.31 (0.17) | 324 (103) | 232 (265) | 100.1 (0.1) |
| 11 | 29.5 (3.2) | 57.7 (12.1) | 0.36 (0.26) | 150 (70) | 223 (264) | 100.5 (0.2) |
| 12 | 28.6 (3.5) | 55.9 (14.0) | 0.23 (0.12) | 201 (54) | 224 (265) | 100.9 (0.1) |
| 13 | 26.8 (4.6) | 55.5 (15.0) | 0.17 (0.17) | 255 (97) | 232 (265) | 100.9 (0.2) |
| 14 | 26.4 (4.6) | 64.3 (9.3) | 0.31 (0.24) | 308 (110) | 204 (247) | 100.4 (0.3) |
| 15 | 26.1 (3.8) | 64.1 (9.0) | 0.27 (0.16) | 344 (140) | 178 (218) | 100.0 (0.1) |
| 16 | 28.1 (4.8) | 55.9 (15.5) | 0.29 (0.20) | 315 (112) | 241 (278) | 99.8 (0.1) |
| 17 | 26.1 (4.0) | 53.6 (13.1) | 0.31 (0.18) | 54 (104) | 222 (272) | 99.7 (0.1) |
| 18 | 22.4 (5.3) | 53.3 (20.1) | 0.22 (0.21) | 26 (128) | 263 (293) | 99.8 (0.1) |
| 19 | 23.1 (5.7) | 52.8 (18.0) | 0.20 (0.18) | 7 (139) | 236 (284) | 100.0 (0.1) |
| 20 | 24.9 (4.8) | 57.6 (15.4) | 0.23 (0.16) | 313 (110) | 202 (242) | 100.4 (0.1) |
| 21 | 24.1 (2.7) | 69.3 (7.6) | 0.22 (0.17) | 250 (71) | 142 (206) | 100.5 (0.1) |
| 22 | 25.2 (3.8) | 61.5 (8.0) | 0.30 (0.19) | 300 (86) | 175 (230) | 100.2 (0.1) |
| 23 | 26.7 (3.9) | 58.7 (8.9) | 0.28 (0.15) | 327 (120) | 217 (269) | 100.2 (0.2) |
| 24 | 26.8 (5.3) | 50.6 (19.2) | 0.26 (0.22) | 37 (120) | | |
| 25 | 27.4 (6.5) | 53.6 (16.4) | 0.24 (0.20) | 332 (130) | 222 (251) | 100.9 (0.2) |
| 26 | 30.1 (4.3) | 52.1 (16.4) | 0.49 (0.18) | 317 (72) | 244 (279) | 100.3 (0.2) |
| 27 | 29.0 (4.3) | 58.2 (12.8) | 0.44 (0.27) | 316 (88) | 224 (269) | 100.1 (0.1) |
| 28 | 29.8 (4.4) | 57.2 (13.5) | 0.51 (0.25) | 319 (79) | 246 (282) | 100.1 (0.1) |
| 29 | 28.4 (4.0) | 59.9 (9.6) | 0.61 (0.28) | 305 (67) | 215 (254) | 100.0 (0.2) |
| 30 | 25.8 (3.6) | 58.2 (6.7) | 0.35 (0.22) | 329 (122) | 206 (274) | 99.8 (0.1) |
| Mean | 27.5 | 57.4 | 0.31 | 328.0 | 221 | 100.2 |
| n | 30 | 30 | 30 | 30 | 29 | 29 |
| SD | 2.7 | 4.2 | 0.13 | 113.0 | 26 | 0.3 |
| Min | 22.4 | 49.0 | 0.14 | 7.0 | 142 | 99.7 |
| Max | 31.8 | 69.3 | 0.69 | 352.0 | 263 | 100.9 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for July, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 23.5 (3.2) | 60.7 (11.7) | 0.29 (0.18) | 11.0 (155.0) | 237.0 (279.0) | 100.1 (0.2) |
| 2 | 24.5 (5.1) | 55.8 (17.6) | 0.24 (0.17) | 355 (150) | 263 (291) | 100.6 (0.1) |
| 3 | 27.0 (4.3) | 56.4 (11.7) | 0.42 (0.26) | 299 (49) | 233 (272) | 100.5 (0.1) |
| 4 | 28.3 (4.3) | 60.5 (12.5) | 0.44 (0.22) | 308 (73) | 241 (278) | 100.3 (0.2) |
| 5 | 25.2 (3.3) | 61.6 (6.2) | 0.29 (0.22) | 255 (69) | 171 (253) | 100.3 (0.1) |
| 6 | 25.1 (3.1) | 59.5 (7.5) | 0.22 (0.13) | 277 (83) | 134 (202) | 100.4 (0.1) |
| 7 | 25.7 (3.1) | 61.8 (7.8) | 0.40 (0.23) | 293 (52) | 222 (270) | 100.6 (0.1) |
| 8 | 25.9 (2.5) | 63.3 (7.8) | 0.47 (0.27) | 294 (59) | 154 (230) | 100.5 (0.1) |
| 9 | 25.5 (3.0) | 65.7 (7.3) | 0.48 (0.19) | 304 (62) | 140 (179) | 100.2 (0.1) |
| 10 | 27.0 (3.5) | 58.9 (8.1) | 0.33 (0.16) | 259 (98) | 201 (247) | 100.3 (0.1) |
| 11 | 26.7 (2.7) | 61.6 (6.7) | 0.21 (0.16) | 206 (74) | 181 (235) | 100.5 (0.1) |
| 12 | 26.9 (4.4) | 56.2 (8.9) | 0.18 (0.15) | 164 (88) | 241 (274) | 100.5 (0.1) |
| 13 | 26.8 (4.4) | 60.6 (6.5) | 0.26 (0.19) | 287 (91) | 237 (273) | 99.9 (0.3) |
| 14 | 24.3 (1.0) | 61.6 (5.7) | 0.20 (0.13) | 35 (111) | 62 (71) | 99.9 (0.2) |
| 15 | 26.4 (3.8) | 55.5 (8.8) | 0.31 (0.18) | 99 (63) | 243 (285) | 100.4 (0.1) |
| 16 | 25.9 (5.0) | 54.6 (8.3) | 0.28 (0.23) | 74 (94) | 238 (277) | 100.7 (0.1) |
| 17 | 26.4 (5.7) | 54.0 (11.4) | 0.22 (0.20) | 72 (99) | 252 (283) | 100.7 (0.1) |
| 18 | 25.9 (5.2) | 56.1 (7.1) | 0.15 (0.13) | 1 (109) | 229 (285) | 100.5 (0.1) |
| 19 | 27.9 (3.7) | 59.0 (7.8) | 0.18 (0.15) | 260 (100) | 217 (272) | 100.4 (0.1) |
| 20 | 29.2 (4.2) | 58.8 (6.7) | 0.25 (0.18) | 93 (85) | 233 (274) | 100.1 (0.2) |
| 21 | 30.0 (4.3) | 58.2 (9.4) | 0.24 (0.21) | 29 (125) | 233 (268) | 99.9 (0.1) |
| 22 | 29.4 (4.5) | 60.8 (9.6) | 0.25 (0.20) | 324 (118) | 201 (264) | 100.0 (0.1) |
| 23 | 25.5 (3.3) | 64.2 (4.8) | 0.25 (0.21) | 265 (91) | 146 (224) | 100.1 (0.1) |
| 24 | 25.6 (3.3) | 62.5 (7.7) | 0.17 (0.14) | 32 (119) | 201 (262) | 100.3 (0.2) |
| 25 | 24.6 (4.0) | 63.7 (7.4) | 0.14 (0.11) | 240 (101) | 141 (192) | 100.7 (0.1) |
| 26 | 26.1 (4.0) | 61.9 (8.1) | 0.30 (0.22) | 304 (106) | 201 (241) | 100.3 (0.2) |
| 27 | 27.4 (3.7) | 66.5 (5.8) | 0.31 (0.22) | 297 (89) | 177 (238) | 99.8 (0.2) |
| 28 | 27.4 (4.2) | 62.1 (10.0) | 0.18 (0.12) | 60 (104) | 189 (220) | 99.9 (0.1) |
| 29 | 29.2 (3.6) | 66.0 (10.8) | 0.32 (0.20) | 286 (68) | 175 (213) | 100.0 (0.1) |
| 30 | 28.3 (3.3) | 71.6 (7.5) | 0.32 (0.20) | 308 (81) | 138 (186) | 99.7 (0.2) |
| 31 | 27.3 | 71.5 | 0.24 | 348.0 | 152 | 99.4 |
| Mean | 26.6 | 61.0 | 0.27 | 317.0 | 196 | 100.2 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1.6 | 4.3 | 0.09 | 115.0 | 46 | 0.3 |
| Min | 23.5 | 54.0 | 0.14 | 1.0 | 62 | 99.4 |
| Max | 30.0 | 71.6 | 0.48 | 355.0 | 263 | 100.7 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for August, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 28.4 (4.1) | 66.0 (11.6) | 0.18 (0.13) | 22.0 (135.0) | 178.0 (208.0) | 99.5 (0.1) |
| 2 | 29.1 (4.0) | 64.6 (13.8) | 0.23 (0.21) | 2 (158) | 160 (195) | 99.5 (0.1) |
| 3 | 27.4 (3.8) | 63.5 (15.8) | 0.22 (0.16) | 46 (114) | 173 (201) | 99.9 (0.2) |
| 4 | 27.9 (5.2) | 66.4 (14.3) | 0.13 (0.11) | 43 (110) | 165 (196) | 100.2 (0.1) |
| 5 | 28.4 (3.9) | 67.9 (12.9) | 0.17 (0.15) | 21 (131) | 143 (178) | 100.1 (0.1) |
| 6 | 29.1 (4.1) | 66.3 (12.4) | 0.23 (0.17) | 21 (146) | 143 (172) | 99.9 (0.1) |
| 7 | 27.5 (2.8) | 69.1 (9.3) | 1.00 (1.72) | 3 (150) | 93 (158) | 99.7 (0.2) |
| 8 | 26.4 (3.9) | 63.6 (18.2) | 2.17 (1.64) | 36 (127) | 167 (204) | 99.5 (0.1) |
| 9 | 25.4 (4.3) | 61.7 (16.5) | 1.82 (1.35) | 127 (84) | 162 (194) | 99.9 (0.1) |
| 10 | 23.4 (2.9) | 75.0 (8.2) | 2.21 (1.65) | 280 (80) | 86 (142) | 99.8 (0.1) |
| 11 | 23.8 (3.7) | 61.7 (16.6) | 2.29 (1.89) | 36 (121) | 175 (207) | 99.7 (0.1) |
| 12 | 22.8 (5.6) | 62.7 (17.8) | 1.38 (1.02) | 344 (123) | 167 (202) | 99.9 (0.1) |
| 13 | 21.9 (1.2) | 79.6 (2.0) | 1.34 (0.97) | 269 (103) | 41 (57) | 99.6 (0.1) |
| 14 | 22.9 (3.9) | 70.7 (10.0) | 2.51 (2.00) | 324 (117) | 141 (174) | 99.8 (0.2) |
| 15 | 23.4 (3.9) | 73.3 (9.1) | 1.77 (1.70) | 325 (119) | 124 (183) | 100.2 (0.1) |
| 16 | 24.5 (4.2) | 68.3 (12.1) | 1.54 (1.23) | 48 (113) | 144 (178) | 100.3 (0.1) |
| 17 | 24.4 (4.0) | 69.8 (9.6) | 1.35 (1.08) | 332 (122) | 103 (123) | 100.4 (0.1) |
| 18 | 25.7 (4.7) | 64.2 (15.5) | 1.28 (1.13) | 295 (113) | 159 (195) | 100.3 (0.1) |
| 19 | 27.1 (5.0) | 62.9 (16.3) | 1.19 (1.11) | 337 (126) | 157 (194) | 100.3 (0.1) |
| 20 | 25.9 (3.8) | 71.5 (8.8) | 3.03 (2.08) | 148 (77) | 146 (186) | 100.6 (0.1) |
| 21 | 25.5 (3.7) | 64.2 (13.0) | 3.11 (1.57) | 159 (39) | 140 (184) | 100.9 (0.1) |
| 22 | 24.9 (4.1) | 65.5 (11.8) | 3.13 (2.00) | 157 (44) | 129 (178) | 101.1 (0.1) |
| 23 | 25.8 (3.7) | 66.8 (12.2) | 2.59 (1.56) | 164 (55) | 137 (188) | 100.9 (0.2) |
| 24 | 26.0 (4.6) | 66.3 (15.2) | 1.57 (1.17) | 285 (112) | 153 (201) | 100.4 (0.2) |
| 25 | 26.9 (3.3) | 68.9 (12.1) | 2.39 (1.45) | 311 (85) | 104 (145) | 100.1 (0.1) |
| 26 | 25.2 (2.0) | 77.9 (3.9) | 2.39 (1.58) | 117 (93) | 63 (92) | 100.2 (0.1) |
| 27 | 23.7 (1.7) | 79.5 (1.4) | 3.43 (1.23) | 181 (44) | 30 (47) | 100.0 (0.1) |
| 28 | 26.4 (2.0) | 80.0 (4.5) | 2.04 (1.22) | 213 (75) | 83 (150) | 99.8 (0.1) |
| 29 | 27.2 (3.0) | 74.9 (9.0) | 1.46 (0.99) | 8 (131) | 120 (171) | 100.0 (0.1) |
| 30 | 26.9 (3.5) | 75.9 (9.9) | 1.51 (1.26) | 326 (124) | 114 (169) | 100.3 (0.1) |
| 31 | 26.0 | 73.5 | 2.48 | 121.0 | 116 | 100.6 |
| Mean | 25.8 | 69.1 | 1.68 | 4.0 | 130 | 100.1 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1.9 | 5.5 | 0.95 | 123.0 | 38 | 0.4 |
| Min | 21.9 | 61.7 | 0.13 | 2.0 | 30 | 99.5 |
| Max | 29.1 | 80.0 | 3.43 | 344.0 | 178 | 101.1 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for September, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 24.4 (4.6) | 65.5 (19.4) | 1.58 (1.45) | 74.0 (104.0) | 158.0 (194.0) | 100.8 (0.1) |
| 2 | 23.8 (5.5) | 66.6 (18.7) | 1.50 (1.25) | 33 (127) | 159 (193) | 100.5 (0.2) |
| 3 | 25.3 (5.5) | 65.0 (17.3) | 1.56 (1.46) | 352 (146) | 157 (191) | 100.1 (0.1) |
| 4 | 26.0 (5.0) | 63.7 (15.0) | 1.78 (1.55) | 281 (102) | 151 (189) | 100.2 (0.1) |
| 5 | 24.0 (3.2) | 78.5 (5.2) | 2.52 (2.00) | 144 (69) | 69 (101) | 100.0 (0.2) |
| 6 | 26.0 (2.0) | 77.1 (6.2) | 5.14 (3.05) | 357 (129) | 63 (107) | 99.1 (0.7) |
| 7 | 26.4 (3.8) | 71.7 (13.7) | 1.15 (0.92) | 29 (125) | 144 (185) | 100.4 (0.1) |
| 8 | 26.0 (4.7) | 72.7 (12.6) | 1.47 (1.09) | 207 (93) | 136 (178) | 100.7 (0.1) |
| 9 | 25.8 (2.2) | 77.9 (5.8) | 2.60 (1.95) | 297 (65) | 92 (134) | 100.4 (0.1) |
| 10 | 22.6 (0.8) | 83.2 (0.7) | 2.10 (1.41) | 101 (84) | 21 (33) | 100.8 (0.2) |
| 11 | 24.0 (2.8) | 78.6 (5.8) | 2.06 (0.97) | 137 (56) | 83 (134) | 101.1 (0.1) |
| 12 | 25.5 (2.9) | 77.3 (5.5) | 1.93 (1.22) | 275 (75) | 105 (152) | 100.7 (0.2) |
| 13 | 28.0 (3.3) | 74.7 (9.5) | 3.03 (1.45) | 321 (76) | 138 (177) | 100.2 (0.1) |
| 14 | 28.4 (2.6) | 72.8 (9.7) | 4.85 (2.41) | 308 (44) | 138 (178) | 99.9 (0.2) |
| 15 | 27.1 (2.0) | 70.8 (10.3) | 3.05 (1.51) | 20 (130) | 104 (147) | 99.9 (0.2) |
| 16 | 20.9 (1.8) | 78.6 (7.5) | 2.61 (1.33) | 100 (53) | 20 (35) | 100.5 (0.2) |
| 17 | 19.9 (2.6) | 74.8 (11.4) | 2.08 (1.55) | 89 (80) | 84 (112) | 100.7 (0.1) |
| 18 | 20.5 (5.0) | 69.2 (17.4) | 2.22 (2.13) | 62 (98) | 142 (181) | 100.8 (0.1) |
| 19 | 19.4 (3.1) | 69.7 (12.0) | 3.41 (2.76) | 117 (41) | 105 (147) | 101.2 (0.1) |
| 20 | 18.4 (3.6) | 75.7 (5.9) | 2.84 (1.47) | 94 (48) | 84 (127) | 101.0 (0.1) |
| 21 | 20.6 (3.6) | 74.2 (9.7) | 1.89 (1.30) | 83 (83) | 107 (152) | 101.0 (0.1) |
| 22 | 21.4 (3.3) | 70.3 (11.5) | 2.47 (1.94) | 108 (75) | 110 (163) | 101.1 (0.1) |
| 23 | 19.6 (3.1) | 70.9 (11.5) | 4.16 (2.55) | 118 (28) | 106 (156) | 101.3 (0.1) |
| 24 | 17.7 (2.9) | 66.4 (11.3) | 5.97 (2.39) | 118 (30) | 103 (143) | 101.1 (0.2) |
| 25 | 17.6 (1.4) | 79.8 (5.2) | 8.14 (1.79) | 108 (49) | 20 (27) | 100.3 (0.3) |
| 26 | 23.5 (2.2) | 79.6 (4.2) | 3.49 (2.29) | 192 (53) | 82 (138) | 99.8 (0.1) |
| 27 | 23.9 (2.6) | 75.3 (9.9) | 1.32 (1.18) | 324 (122) | 108 (164) | 99.9 (0.1) |
| 28 | 23.1 (2.4) | 78.8 (7.5) | 1.44 (1.22) | 6 (155) | 86 (132) | 100.0 (0.1) |
| 29 | 23.3 (2.9) | 75.3 (10.4) | 1.32 (1.15) | 36 (126) | 105 (152) | 100.2 (0.1) |
| 30 | 21.4 (2.5) | 80.0 (4.1) | 1.42 (1.19) | 278 (83) | 56 (78) | 99.8 (0.2) |
| Mean | 23.2 | 73.8 | 2.70 | 60.0 | 101 | 100.5 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 3.0 | 5.1 | 1.56 | 109.0 | 39 | 0.5 |
| Min | 17.6 | 63.7 | 1.15 | 6.0 | 20 | 99.1 |
| Max | 28.4 | 83.2 | 8.14 | 357.0 | 159 | 101.3 |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for October, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^{2}$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 19.4 (2.8) | 75.8 (6.9) | 2.18 (1.34) | 16.0 (143.0) | 91.0 (134.0) | |
| 2 | 14.8 (4.0) | 69.2 (15.7) | 2.26 (1.83) | 360 (149) | 130 (173) | |
| 3 | 16.2 (5.7) | 69.2 (16.9) | 1.59 (1.92) | 15 (139) | 128 (167) | |
| 4 | 18.0 (6.0) | 69.0 (17.2) | 0.95 (1.08) | 8 (123) | 125 (162) | |
| 5 | 19.5 (5.8) | 71.4 (14.4) | 0.82 (0.82) | 22 (120) | 119 (160) | |
| 6 | 19.9 (5.5) | 71.4 (12.0) | 1.75 (1.41) | 71 (99) | 122 (151) | |
| 7 | 17.2 (3.0) | 69.7 (12.8) | 2.14 (1.75) | 126 (71) | 107 (145) | |
| 8 | 17.8 (5.3) | 69.4 (13.2) | 1.60 (1.57) | 247 (87) | 113 (152) | |
| 9 | 22.0 (2.9) | 76.5 (7.2) | 1.07 (0.99) | 240 (92) | 54 (87) | |
| 10 | 21.4 (1.6) | 79.9 (2.4) | 2.37 (1.44) | 131 (51) | 30 (45) | |
| 11 | 20.1 (1.7) | 72.7 (8.1) | 4.18 (1.43) | 134 (22) | 58 (82) | |
| 12 | 19.7 (4.3) | 71.1 (9.9) | 2.88 (1.81) | 129 (40) | 110 (158) | |
| 13 | 18.0 (5.4) | 74.0 (12.9) | 0.95 (0.86) | 32 (119) | 118 (156) | |
| 14 | 19.3 (7.0) | 68.8 (19.3) | 0.92 (0.87) | 15 (137) | 118 (155) | |
| 15 | 21.5 (6.8) | 68.9 (17.3) | 0.72 (0.67) | 23 (135) | 110 (148) | |
| 16 | 22.9 (5.2) | 67.4 (14.9) | 1.34 (1.33) | 10 (146) | 102 (136) | |
| 17 | 16.7 (3.3) | 78.7 (4.5) | 3.56 (1.63) | 117 (55) | 13 (17) | |
| 18 | 13.0 (1.1) | 74.4 (6.0) | 4.28 (1.39) | 95 (35) | 38 (64) | |
| 19 | 10.8 (3.6) | 64.4 (14.3) | 4.27 (2.56) | 74 (84) | 111 (148) | |
| 20 | 9.9 (6.3) | 65.7 (20.6) | 1.41 (1.26) | 23 (130) | 111 (149) | |
| 21 | 14.3 (6.0) | 63.1 (14.3) | 2.50 (1.82) | 30 (138) | 99 (140) | |
| 22 | 9.4 (4.4) | 64.7 (15.4) | 2.16 (2.20) | 51 (119) | 108 (144) | |
| 23 | 10.6 (4.9) | 70.0 (11.8) | 2.50 (1.68) | 123 (52) | 89 (129) | |
| 24 | 14.1 (3.1) | 76.2 (3.6) | 3.14 (1.65) | 169 (32) | 33 (46) | |
| 25 | 19.0 (2.4) | 81.0 (2.4) | 2.95 (1.43) | 254 (101) | 30 (50) | |
| 26 | 13.9 (4.1) | 71.5 (14.0) | 1.06 (1.17) | 19 (135) | 101 (143) | |
| 27 | 9.4 (4.3) | 76.9 (9.6) | 2.66 (2.75) | 62 (103) | 58 (106) | |
| 28 | 7.1 (4.0) | 61.3 (17.8) | 4.07 (2.24) | 0 (162) | 100 (138) | |
| 29 | 7.3 (3.5) | 57.0 (14.9) | 3.25 (1.96) | 356 (155) | 74 (105) | |
| 30 | 6.3 (5.6) | 63.2 (20.6) | 1.62 (1.84) | 43 (121) | 104 (141) | |
| 31 | 8.9 | 60.6 | 1.45 | 11.0 | 102 | |
| Mean | 15.4 | 70.1 | 2.21 | 46.0 | 91 | |
| n | 31 | 31 | 31 | 31 | 31 | 0 |
| SD | 4.9 | 5.8 | 1.08 | 99.0 | 33 | |
| Min | 6.3 | 57.0 | 0.72 | 0.0 | 13 | |
| Max | 22.9 | 81.0 | 4.28 | 360.0 | 130 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for November, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 13.1 (7.4) | 60.0 (19.9) | 1.00 (1.13) | 359.0 (135.0) | 99.0 (137.0) | |
| 2 | 14.6 (7.4) | 65.6 (20.3) | 2.45 (2.00) | 124 (81) | 96 (134) | |
| 3 | 15.7 (1.2) | 79.2 (1.4) | 3.92 (1.18) | 120 (26) | 22 (35) | |
| 4 | 16.4 (0.7) | 78.8 (1.0) | 5.20 (1.14) | 117 (33) | 22 (34) | |
| 5 | 17.1 (1.5) | 74.5 (5.7) | 5.31 (1.45) | 82 (46) | 37 (70) | |
| 6 | 18.8 (3.3) | 65.8 (10.0) | 3.27 (2.12) | 38 (124) | 89 (128) | |
| 7 | 18.4 (4.7) | 69.9 (11.9) | 1.37 (1.07) | 318 (127) | 92 (129) | |
| 8 | 16.1 (2.3) | 71.0 (9.3) | 3.59 (1.79) | 307 (86) | 60 (114) | |
| 9 | 10.6 (5.1) | 66.4 (17.1) | 1.17 (1.15) | 21 (140) | 88 (130) | |
| 10 | 7.8 (5.2) | 66.2 (18.1) | 1.30 (1.50) | 17 (144) | 93 (131) | |
| 11 | 7.7 (4.2) | 64.8 (15.0) | 1.55 (1.32) | 86 (95) | 83 (121) | |
| 12 | 11.3 (4.4) | 63.5 (15.0) | 1.98 (1.30) | 149 (69) | 79 (120) | |
| 13 | 14.4 (1.8) | 80.3 (1.3) | 2.54 (1.64) | 177 (81) | 21 (36) | |
| 14 | 16.2 (1.8) | 79.8 (0.8) | 1.53 (1.04) | 276 (100) | | |
| 15 | 19.8 (3.7) | 77.2 (6.5) | 6.08 (2.58) | 300 (65) | 45 (86) | |
| 16 | 8.8 (2.9) | 57.7 (11.3) | 3.21 (2.24) | 5 (164) | 88 (126) | |
| 17 | 6.1 (4.1) | 62.1 (15.2) | 1.58 (1.29) | 10 (152) | 74 (113) | |
| 18 | 3.1 (2.1) | 59.5 (13.8) | 3.63 (2.77) | 42 (115) | 59 (104) | |
| 19 | 2.3 (3.1) | 49.8 (10.3) | 2.70 (1.31) | 3 (147) | 85 (122) | |
| 20 | 7.3 (4.3) | 47.6 (7.3) | 3.22 (1.53) | 14 (141) | 81 (117) | |
| 21 | 3.5 (2.4) | 52.7 (19.7) | 4.59 (2.73) | 41 (118) | 64 (109) | |
| 22 | 0.7 (3.7) | 48.5 (13.4) | 1.92 (1.72) | 9 (154) | 78 (118) | |
| 23 | 3.7 (4.9) | 57.4 (20.6) | 1.02 (1.13) | 4 (118) | 83 (120) | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | 5.8 (6.8) | 64.4 (18.2) | 0.89 (1.11) | 360 (117) | 77 (112) | |
| 28 | 10.0 (5.8) | 61.7 (18.2) | 1.30 (1.41) | 17 (135) | 62 (100) | |
| 29 | 7.9 (1.1) | 61.6 (9.2) | 3.47 (1.74) | 132 (64) | 18 (27) | |
| 30 | 10.0 (3.3) | 80.3 (1.0) | 2.94 (2.10) | 158 (87) | 11 (18) | |
| Mean | 10.6 | 65.4 | 2.69 | 33.0 | 65 | |
| n | 27 | 27 | 27 | 27 | 26 | 0 |
| SD | 5.5 | 9.7 | 1.43 | 119.0 | 27 | |
| Min | 0.7 | 47.6 | 0.89 | 3.0 | 11 | |
| Max | 19.8 | 80.3 | 6.08 | 360.0 | 99 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for December, 2008**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 8.8 (2.0) | 66.7 (12.7) | 6.76 (3.24) | 310.0 (30.0) | 61.0 (106.0) | |
| 2 | 4.2 (3.1) | 66.9 (12.9) | 2.21 (1.68) | 351 (149) | 53 (94) | |
| 3 | 3.9 (5.3) | 65.8 (16.2) | 1.37 (1.50) | 314 (118) | 78 (115) | |
| 4 | 8.9 (4.7) | 62.3 (10.5) | 3.67 (2.29) | 301 (55) | 62 (100) | |
| 5 | 6.6 (3.5) | 70.0 (7.2) | 2.08 (1.49) | 54 (105) | 18 (30) | |
| 6 | 3.7 (4.6) | 69.3 (13.3) | 1.09 (0.98) | 357 (129) | 53 (92) | |
| 7 | 2.4 (2.4) | 56.7 (20.7) | 3.33 (2.83) | 12 (152) | 77 (112) | |
| 8 | 0.7 (4.2) | 52.3 (15.1) | 0.94 (0.96) | 276 (104) | 50 (82) | |
| 9 | 11.1 (7.4) | 69.5 (6.1) | 3.04 (2.06) | 242 (37) | 38 (57) | |
| 10 | 19.3 (1.7) | 81.3 (2.5) | 4.46 (1.63) | 284 (30) | 26 (42) | |
| 11 | 19.1 (1.7) | 81.3 (1.6) | 3.54 (2.50) | 261 (35) | 10 (17) | |
| 12 | 10.2 (3.9) | 63.5 (15.4) | 4.40 (1.53) | 16 (135) | 72 (109) | |
| 13 | 2.9 (3.5) | 61.4 (15.5) | 1.33 (1.20) | 11 (137) | 75 (110) | |
| 14 | 7.6 (5.8) | 71.3 (10.7) | 1.19 (0.93) | 228 (88) | 61 (94) | |
| 15 | 16.3 (3.3) | 77.3 (7.1) | 2.54 (1.98) | 269 (33) | 38 (64) | |
| 16 | 10.8 (3.6) | 81.0 (0.6) | 3.54 (2.27) | 162 (79) | 10 (15) | |
| 17 | 11.5 (3.9) | 81.0 (0.7) | 2.20 (1.68) | 343 (127) | 21 (35) | |
| 18 | 13.2 (0.9) | 80.6 (1.7) | 2.01 (1.39) | 155 (71) | 15 (26) | |
| 19 | 16.2 (3.7) | 76.6 (4.6) | 5.19 (3.31) | 283 (65) | 25 (39) | |
| 20 | 13.7 (3.1) | 81.6 (1.7) | 3.13 (1.67) | 96 (107) | 16 (28) | |
| 21 | 8.6 (3.0) | 65.2 (17.5) | 3.50 (1.80) | 22 (129) | 55 (96) | |
| 22 | -1.5 (2.2) | 42.5 (12.3) | 3.78 (2.41) | 22 (139) | 76 (111) | |
| 23 | 0.4 (3.9) | 54.3 (12.0) | 1.71 (1.14) | 196 (90) | 73 (108) | |
| 24 | 12.5 (7.1) | 73.7 (3.1) | 3.42 (2.79) | 274 (73) | 29 (55) | |
| 25 | 14.6 (3.8) | 64.6 (18.0) | 2.87 (2.32) | 36 (124) | 51 (85) | |
| 26 | 7.0 (1.9) | 76.5 (4.2) | 2.11 (1.06) | 117 (34) | 26 (41) | |
| 27 | 11.6 (3.1) | 81.8 (0.7) | 1.42 (0.79) | 320 (117) | 27 (46) | |
| 28 | 19.3 (2.9) | 76.0 (5.8) | 5.74 (2.90) | 314 (65) | 51 (86) | |
| 29 | 11.6 (3.3) | 61.8 (17.6) | 1.79 (1.57) | 26 (138) | 63 (105) | |
| 30 | 11.0 (3.5) | 43.9 (10.0) | 2.84 (1.51) | 330 (133) | 71 (109) | |
| 31 | 7.9 | 45.5 | 6.39 | 11.0 | 76 | |
| Mean | 9.5 | 67.8 | 3.02 | 330.0 | 47 | |
| n | 31 | 31 | 31 | 31 | 31 | 0 |
| SD | 5.5 | 11.4 | 1.51 | 125.0 | 23 | |
| Min | -1.5 | 42.5 | 0.94 | 11.0 | 10 | |
| Max | 19.3 | 81.8 | 6.76 | 357.0 | 78 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for January, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 0.0 (3.3) | 44.9 (11.7) | 1.47 (1.35) | 26.0 (108.0) | 78.0 (114.0) | |
| 2 | 1.8 (3.0) | 74.0 (9.8) | 1.87 (1.22) | 314 (97) | 16 (22) | |
| 3 | 8.4 (5.2) | 68.9 (16.8) | 1.27 (0.99) | 26 (118) | 75 (111) | |
| 4 | | | | | | |
| 5 | 14.4 (0.9) | 81.7 (1.2) | 3.12 (1.60) | 319 (97) | 29 (50) | |
| 6 | 8.5 (1.9) | 79.3 (0.4) | 3.22 (1.40) | 149 (38) | 7 (12) | |
| 7 | 13.5 (4.9) | 69.4 (10.2) | 7.51 (4.64) | 305 (82) | 30 (58) | |
| 8 | 7.1 (2.3) | 55.0 (6.5) | 4.89 (1.99) | 347 (135) | 49 (82) | |
| 9 | 3.4 (3.5) | 53.0 (14.2) | 2.01 (1.53) | 20 (139) | 81 (119) | |
| 10 | | | | | | |
| 11 | 12.4 (2.0) | 69.9 (9.7) | 4.05 (2.14) | 28 (127) | 28 (46) | |
| 12 | 4.9 (3.0) | 61.0 (11.5) | 1.84 (1.17) | 11 (113) | 81 (117) | |
| 13 | 3.1 (1.8) | 78.3 (2.0) | 1.26 (0.73) | 33 (121) | 8 (14) | |
| 14 | 2.4 (2.1) | 54.2 (15.1) | 2.25 (1.32) | 340 (122) | 83 (120) | |
| 15 | 1.7 (2.9) | 49.8 (15.9) | 4.67 (2.03) | 32 (125) | 83 (119) | |
| 16 | -5.6 (2.0) | 41.3 (11.3) | 2.68 (1.75) | 56 (82) | 84 (124) | |
| 17 | | 49.8 (19.2) | 1.79 (1.40) | 298 (112) | 85 (129) | |
| 18 | 2.6 (1.4) | 66.4 (16.8) | 3.70 (1.18) | 300 (30) | 12 (24) | |
| 19 | 4.7 (2.0) | 80.2 (3.9) | 2.21 (1.27) | 305 (94) | 40 (73) | |
| 20 | -1.1 (1.9) | 72.9 (11.1) | 4.55 (2.65) | 77 (78) | 26 (38) | |
| 21 | -2.8 (3.5) | 58.6 (11.0) | 2.14 (1.38) | 350 (149) | 89 (127) | |
| 22 | 2.5 (5.1) | 53.7 (14.5) | 2.92 (1.98) | 320 (87) | 89 (130) | |
| 23 | 7.6 (4.6) | 57.6 (10.2) | 3.44 (1.83) | 305 (40) | 85 (126) | |
| 24 | 10.5 (2.6) | 56.9 (17.2) | 3.63 (1.80) | 39 (125) | 29 (41) | |
| 25 | 0.9 (1.2) | 55.6 (3.8) | 2.94 (1.24) | 140 (33) | 22 (32) | |
| 26 | 4.4 (2.4) | 51.7 (6.4) | 2.06 (0.84) | 153 (48) | 53 (84) | |
| 27 | 5.0 (1.2) | 77.2 (5.0) | 2.13 (1.14) | 170 (53) | 13 (21) | |
| 28 | 11.4 (5.9) | 78.2 (4.0) | 4.89 (4.39) | 284 (105) | 23 (51) | |
| 29 | 6.5 (3.6) | 64.7 (12.8) | 1.49 (1.10) | 37 (123) | 95 (135) | |
| 30 | 3.2 (4.4) | 61.9 (19.6) | 1.96 (1.93) | 27 (128) | 85 (132) | |
| 31 | 2.4 (3.2) | 43.3 (11.2) | 3.23 (1.90) | 350 (152) | 98 (138) | |
| Mean | 4.8 | 62.4 | 2.94 | 0.0 | 54 | |
| n | 28 | 29 | 29 | 29 | 29 | 0 |
| SD | 4.8 | 11.8 | 1.38 | 133.0 | 32 | |
| Min | -5.6 | 41.3 | 1.26 | 11.0 | 7 | |
| Max | 14.4 | 81.7 | 7.51 | 350.0 | 98 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for February, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 8.9 (4.7) | 46.9 (9.0) | 5.66 (2.67) | 302.0 (27.0) | 97.0 (139.0) | |
| 2 | 11.1 (4.0) | 59.1 (11.8) | 4.09 (2.52) | 297 (60) | 83 (124) | |
| 3 | 3.6 (1.8) | 67.0 (15.4) | 4.36 (2.05) | 36 (128) | 77 (126) | |
| 4 | 0.9 (1.6) | 49.4 (15.5) | 5.06 (2.89) | 56 (100) | 91 (138) | |
| 5 | -3.5 (2.2) | 44.4 (11.7) | 3.39 (2.23) | 42 (112) | 104 (143) | |
| 6 | 1.1 (6.9) | 54.7 (20.5) | 2.30 (2.56) | 312 (107) | 99 (138) | |
| 7 | 10.8 (7.9) | 51.2 (14.6) | 2.96 (2.40) | 299 (85) | 101 (139) | |
| 8 | 15.7 (4.7) | 49.7 (8.7) | 4.32 (2.39) | 347 (141) | 97 (137) | |
| 9 | 11.0 (4.1) | 57.8 (16.5) | 1.78 (1.48) | 196 (73) | 104 (146) | |
| 10 | 14.2 (5.9) | 68.2 (10.1) | 3.45 (2.84) | 285 (76) | 66 (98) | |
| 11 | 18.5 (3.5) | 66.6 (12.7) | 7.70 (3.29) | 302 (19) | 71 (106) | |
| 12 | 16.6 (2.4) | 40.6 (16.4) | 6.71 (2.64) | 351 (158) | 106 (146) | |
| 13 | 12.6 (3.6) | 40.9 (7.2) | 3.55 (2.10) | 354 (142) | 82 (128) | |
| 14 | 9.5 (3.1) | 60.7 (10.2) | 2.12 (1.56) | 218 (90) | 75 (116) | |
| 15 | 7.3 (2.7) | 55.7 (11.7) | 2.99 (1.96) | 131 (72) | 99 (141) | |
| 16 | 3.8 (1.9) | 60.6 (11.0) | 3.95 (2.05) | 87 (59) | 70 (113) | |
| 17 | 2.5 (4.4) | 48.2 (13.2) | 1.76 (1.21) | 339 (121) | 114 (153) | |
| 18 | 8.1 (4.1) | 74.9 (11.5) | 4.14 (1.67) | 286 (24) | 13 (23) | |
| 19 | 10.8 (3.9) | 55.1 (21.3) | 5.03 (2.31) | 4 (150) | 116 (158) | |
| 20 | 1.5 (2.7) | 37.8 (8.2) | 3.41 (2.04) | 6 (159) | 117 (160) | |
| 21 | 3.5 (5.7) | 48.2 (18.4) | 2.32 (2.07) | 295 (111) | 119 (159) | |
| 22 | 5.7 (2.5) | 55.5 (16.5) | 4.58 (2.52) | 346 (139) | 64 (120) | |
| 23 | 1.2 (3.0) | 42.8 (10.1) | 3.99 (2.31) | 27 (139) | 120 (161) | |
| 24 | 1.2 (4.3) | 43.3 (13.5) | 1.94 (1.59) | 47 (108) | 122 (162) | |
| 25 | 3.5 (6.3) | 50.2 (20.7) | 1.46 (1.37) | 289 (108) | 93 (131) | |
| 26 | 10.2 (5.8) | 61.9 (8.6) | 3.09 (2.60) | 284 (79) | 107 (143) | |
| 27 | 15.6 (3.7) | 60.9 (8.0) | 4.17 (3.40) | 300 (74) | 74 (124) | |
| 28 | 9.5 (4.6) | 79.3 (2.2) | 4.31 (2.70) | 133 (80) | 10 (14) | |
| Mean | 7.7 | 54.7 | 3.74 | 334 | 89 | |
| n | 28.0 | 28.0 | 28.00 | 28.0 | 28 | 0.0 |
| SD | 6 | 10 | 1 | 124 | 27 | |
| Min | -3.5 | 37.8 | 1.46 | 4.0 | 10 | |
| Max | 18.5 | 79.3 | 7.70 | 354.0 | 122 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for March, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 2.5 (0.4) | 80.6 (0.5) | 6.03 (2.18) | 117.0 (47.0) | 6.0 (7.0) | |
| 2 | | | | | | |
| 3 | -3.7 (2.8) | 66.4 (11.6) | 2.62 (2.03) | 60 (99) | 132 (172) | |
| 4 | 0.0 (5.7) | 61.0 (19.7) | 1.31 (1.45) | 342 (122) | 121 (168) | |
| 5 | 7.1 (6.2) | 53.2 (19.3) | 3.07 (2.39) | 278 (77) | 130 (170) | |
| 6 | 14.3 (6.6) | 55.6 (11.2) | 5.81 (3.15) | 302 (23) | 123 (161) | |
| 7 | 19.6 (4.9) | 57.9 (11.2) | 4.23 (1.38) | 314 (73) | 128 (168) | |
| 8 | 21.1 (4.3) | 51.7 (12.8) | 6.42 (2.32) | 314 (37) | 132 (174) | |
| 9 | 21.9 (4.2) | 40.6 (18.4) | 5.32 (2.17) | 358 (145) | 137 (178) | |
| 10 | 13.7 (2.9) | 60.5 (8.1) | 3.24 (1.22) | 182 (40) | 118 (161) | |
| 11 | 19.6 (5.0) | 63.6 (15.3) | 4.22 (2.28) | 309 (105) | 97 (143) | |
| 12 | 11.6 (2.4) | 38.0 (6.7) | 4.78 (1.64) | 132 (39) | 55 (70) | |
| 13 | 5.3 (1.1) | 73.1 (12.5) | 4.03 (1.17) | 127 (36) | 11 (15) | |
| 14 | 5.5 (0.9) | 79.7 (0.3) | 2.69 (1.03) | 140 (37) | 11 (14) | |
| 15 | 7.9 (1.2) | 79.2 (0.4) | 1.66 (0.82) | 110 (56) | 17 (22) | |
| 16 | 9.9 (0.7) | 78.3 (0.9) | 2.37 (1.03) | 127 (35) | 21 (26) | |
| 17 | 9.9 (1.7) | 79.0 (1.5) | 3.46 (1.87) | 111 (60) | 44 (59) | |
| 18 | 10.2 (6.5) | 68.0 (13.2) | 1.92 (1.48) | 308 (118) | 136 (184) | |
| 19 | 14.3 (5.4) | 65.0 (14.5) | 4.54 (2.47) | 325 (99) | 125 (174) | |
| 20 | 10.0 (3.5) | 56.2 (20.4) | 3.83 (2.06) | 106 (68) | 152 (190) | |
| 21 | 7.2 (4.1) | 54.0 (16.9) | 2.36 (1.80) | 136 (76) | 151 (193) | |
| 22 | 9.5 (7.2) | 55.2 (20.3) | 1.60 (1.36) | 340 (136) | 152 (191) | |
| 23 | 10.6 (4.7) | 59.6 (16.5) | 2.23 (2.41) | 120 (96) | 151 (191) | |
| 24 | 7.8 (3.5) | 49.1 (20.3) | 3.19 (1.90) | 160 (50) | 147 (186) | |
| 25 | 7.3 (1.9) | 59.2 (7.7) | 1.72 (0.97) | 199 (53) | 28 (42) | |
| 26 | 14.0 (4.3) | 80.5 (1.4) | 2.75 (1.60) | 260 (59) | 37 (59) | |
| 27 | 16.3 (1.2) | 80.6 (0.9) | 2.13 (1.38) | 167 (88) | 33 (50) | |
| 28 | 19.3 (2.1) | 77.7 (5.2) | 3.39 (1.75) | 276 (83) | 83 (132) | |
| 29 | 19.7 (3.8) | 60.9 (19.1) | 8.22 (3.28) | 317 (102) | 130 (184) | |
| 30 | 12.3 (3.9) | 48.7 (15.0) | 3.74 (2.13) | 4 (154) | 161 (202) | |
| 31 | 12.8 (6.3) | 55.6 (19.1) | 2.32 (1.63) | 239 (91) | 135 (182) | |
| Mean | 11.3 | 63.0 | 3.51 | 203.0 | 97 | |
| n | 30 | 30 | 30 | 30 | 30 | 0 |
| SD | 6.1 | 12.2 | 1.61 | 98.0 | 53 | |
| Min | -3.7 | 38.0 | 1.31 | 4.0 | 6 | |
| Max | 21.9 | 80.6 | 8.22 | 358.0 | 161 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for April, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 16.0 (3.4) | 72.8 (5.1) | 2.58 (1.40) | 228.0 (53.0) | 48.0 (75.0) | |
| 2 | 17.0 (1.6) | 80.7 (1.0) | 2.97 (1.74) | 196 (55) | 30 (38) | |
| 3 | 19.9 (3.2) | 59.9 (16.7) | 6.64 (3.42) | 321 (126) | 134 (188) | |
| 4 | 15.9 (4.5) | 44.6 (15.3) | 3.84 (2.19) | 347 (142) | 171 (209) | |
| 5 | 18.3 (7.3) | 48.3 (19.7) | 3.07 (2.23) | 296 (104) | 161 (201) | |
| 6 | 17.0 (3.0) | 66.7 (14.1) | 4.89 (1.62) | 343 (140) | 76 (147) | |
| 7 | 7.9 (1.4) | 48.6 (9.0) | 4.63 (2.01) | 358 (168) | 87 (120) | |
| 8 | 9.3 (4.2) | 45.7 (12.3) | 4.75 (2.66) | 332 (118) | 163 (202) | |
| 9 | 13.6 (4.3) | 53.8 (18.6) | 2.58 (2.11) | 350 (130) | 169 (211) | |
| 10 | 17.7 (5.2) | 57.7 (17.4) | 4.39 (3.62) | 283 (72) | 103 (163) | |
| 11 | 16.3 (3.1) | 68.9 (11.3) | 5.07 (2.52) | 26 (130) | 99 (141) | |
| 12 | 11.2 (4.2) | 50.5 (20.5) | 2.62 (1.82) | 72 (104) | 179 (213) | |
| 13 | 11.5 (4.2) | 67.4 (10.7) | 2.56 (1.54) | 222 (71) | 59 (85) | |
| 14 | 17.6 (2.9) | 77.7 (4.8) | 3.38 (1.48) | 269 (94) | 80 (116) | |
| 15 | 13.1 (2.6) | 74.0 (7.6) | 5.23 (1.68) | 88 (42) | 86 (129) | |
| 16 | 12.5 (4.5) | 49.6 (19.9) | 5.35 (2.61) | 126 (52) | 175 (209) | |
| 17 | 13.8 (8.0) | 48.9 (21.2) | 1.92 (1.43) | 356 (142) | 179 (211) | |
| 18 | 19.4 (6.4) | 42.8 (13.7) | 3.10 (1.69) | 325 (112) | 174 (209) | |
| 19 | 17.9 (2.9) | 59.1 (10.9) | 3.35 (1.64) | 299 (59) | 64 (77) | |
| 20 | 20.0 (4.2) | 69.4 (11.9) | 4.49 (3.23) | 279 (60) | 124 (182) | |
| 21 | 17.3 (3.7) | 61.2 (15.9) | 3.00 (3.06) | 347 (135) | 145 (200) | |
| 22 | 12.9 (2.6) | 54.1 (18.5) | 4.19 (3.84) | 11 (146) | 140 (184) | |
| 23 | 16.6 (6.6) | 46.2 (17.7) | 3.04 (2.54) | 6 (144) | 182 (214) | |
| 24 | 20.8 (8.2) | 59.6 (16.0) | 2.70 (1.86) | 260 (76) | 165 (199) | |
| 25 | 26.0 (4.6) | 61.8 (16.5) | 4.61 (1.41) | 303 (37) | 173 (202) | |
| 26 | 25.9 (4.9) | 54.5 (18.6) | 3.81 (1.61) | 315 (82) | 179 (209) | |
| 27 | 25.0 (4.9) | 55.1 (18.5) | 2.94 (1.66) | 306 (76) | 179 (210) | |
| 28 | 22.6 (4.5) | 54.1 (14.8) | 4.18 (2.31) | 314 (71) | 178 (207) | |
| 29 | 20.4 (4.2) | 67.3 (10.8) | 3.94 (1.90) | 28 (114) | 128 (158) | |
| 30 | 17.5 (3.7) | 75.6 (7.1) | 2.15 (1.14) | 164 (77) | 98 (145) | |
| Mean | 17.0 | 59.2 | 3.73 | 324.0 | 131 | |
| n | 30 | 30 | 30 | 30 | 30 | 0 |
| SD | 4.5 | 10.6 | 1.09 | 115.0 | 47 | |
| Min | 7.9 | 42.8 | 1.92 | 6.0 | 30 | |
| Max | 26.0 | 80.7 | 6.64 | 358.0 | 182 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for May, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 22.4 (2.3) | 75.1 (7.6) | 5.53 (2.46) | 297.0 (21.0) | 124.0 (164.0) | |
| 2 | | | | | | |
| 3 | 24.5 (2.9) | 65.7 (11.2) | 5.14 (2.90) | 303 (32) | 141 (175) | |
| 4 | 24.2 (3.1) | 65.7 (13.2) | 6.46 (3.04) | 303 (44) | 132 (179) | |
| 5 | 18.7 (2.0) | 81.2 (1.2) | 2.51 (1.15) | 149 (89) | 34 (52) | |
| 6 | 22.0 (3.8) | 76.2 (7.1) | 3.49 (2.35) | 263 (83) | 123 (177) | |
| 7 | 23.8 (2.6) | 72.8 (9.4) | 4.75 (2.15) | 299 (51) | 129 (189) | |
| 8 | 23.8 (3.5) | 71.7 (9.4) | 3.32 (1.79) | 310 (89) | 140 (171) | |
| 9 | | | | | | |
| 10 | 21.3 (3.0) | 62.3 (14.7) | 2.40 (1.62) | 25 (139) | 157 (195) | |
| 11 | 15.5 (2.3) | 71.8 (7.8) | 2.86 (1.98) | 117 (85) | 34 (37) | |
| 12 | 16.6 (6.2) | 64.8 (18.5) | 1.85 (1.60) | 61 (104) | 193 (223) | |
| 13 | 18.7 (4.2) | 61.5 (17.5) | 2.42 (1.93) | 199 (63) | 169 (190) | |
| 14 | 20.9 (4.5) | 75.5 (6.1) | 2.89 (1.77) | 247 (39) | 103 (147) | |
| 15 | 24.0 (2.9) | 73.5 (8.8) | 2.21 (1.18) | 257 (71) | 138 (189) | |
| 16 | 24.1 (2.2) | 75.6 (7.4) | 4.14 (1.57) | 295 (42) | 136 (180) | |
| 17 | 17.0 (4.0) | 82.1 (1.8) | 3.92 (2.02) | 61 (105) | 23 (29) | |
| 18 | 14.3 (2.8) | 63.3 (16.3) | 4.19 (2.51) | 119 (36) | 154 (187) | |
| 19 | 15.0 (4.3) | 60.3 (15.3) | 4.34 (2.85) | 136 (36) | 202 (233) | |
| 20 | 17.7 (7.2) | 63.0 (16.8) | 2.83 (1.62) | 144 (60) | 202 (226) | |
| 21 | 21.1 (4.9) | 65.3 (14.7) | 2.41 (1.83) | 184 (54) | 200 (224) | |
| 22 | 23.0 (5.0) | 67.8 (12.8) | 1.63 (1.33) | 260 (91) | 167 (200) | |
| 23 | 24.3 (3.6) | 68.0 (12.6) | 2.17 (1.43) | 278 (87) | 162 (209) | |
| 24 | 23.6 (3.0) | 75.6 (8.9) | 1.86 (1.60) | 269 (75) | 122 (160) | |
| 25 | 24.8 (3.3) | 72.1 (9.9) | 2.28 (1.18) | 254 (43) | 147 (188) | |
| 26 | 23.9 (2.2) | 76.9 (6.9) | 2.17 (1.30) | 232 (56) | 102 (132) | |
| 27 | 25.0 (3.7) | 69.8 (13.8) | 1.54 (1.00) | 162 (67) | 165 (208) | |
| 28 | | | | | | |
| 29 | 25.2 (3.6) | 72.2 (11.1) | 3.58 (1.92) | 326 (106) | 163 (195) | |
| 30 | 23.8 (3.7) | 65.8 (16.8) | 1.88 (1.18) | 27 (129) | 192 (221) | |
| 31 | 24.7 (4.3) | 65.2 (14.6) | 2.33 (2.07) | 360 (147) | 181 (215) | |
| Mean | 21.6 | 70.0 | 3.11 | 268.0 | 141 | |
| n | 28 | 28 | 28 | 28 | 28 | 0 |
| SD | 3.4 | 5.9 | 1.25 | 95.0 | 47 | |
| Min | 14.3 | 60.3 | 1.54 | 25.0 | 23 | |
| Max | 25.2 | 82.1 | 6.46 | 360.0 | 202 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for June, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 25.3 (3.9) | 58.5 (13.6) | 2.45 (1.77) | 168.0 (69.0) | 190.0 (213.0) | |
| 2 | 27.3 (4.5) | 64.0 (15.7) | 2.45 (1.39) | 309 (81) | 191 (215) | |
| 3 | 26.7 (3.4) | 65.9 (13.2) | 3.94 (2.06) | 317 (91) | 166 (211) | |
| 4 | 25.3 (3.1) | 71.9 (13.2) | 2.91 (1.42) | 300 (96) | 133 (176) | |
| 5 | 22.7 (2.7) | 80.6 (6.2) | 3.92 (1.96) | 307 (100) | 100 (161) | |
| 6 | 20.6 (2.3) | 78.1 (6.5) | 2.59 (1.42) | 125 (54) | 88 (116) | |
| 7 | 23.0 (4.4) | 71.8 (11.2) | 1.02 (0.92) | 254 (101) | 149 (177) | |
| 8 | 25.5 (4.6) | 70.2 (14.2) | 1.49 (1.24) | 323 (119) | 173 (220) | |
| 9 | 25.0 (4.5) | 75.1 (12.5) | 3.03 (2.15) | 306 (101) | 147 (204) | |
| 10 | 23.9 (4.1) | 75.3 (9.8) | 1.81 (1.32) | 329 (131) | 125 (156) | |
| 11 | 26.2 (2.9) | 75.0 (8.6) | 2.45 (1.84) | 303 (92) | 127 (158) | |
| 12 | 26.4 (3.7) | 74.0 (10.7) | 2.66 (1.89) | 353 (147) | 139 (164) | |
| 13 | 27.1 (3.9) | 71.0 (12.3) | 1.78 (1.28) | 30 (125) | 143 (166) | |
| 14 | 25.9 (3.1) | 71.5 (11.8) | 2.25 (1.46) | 80 (84) | 125 (150) | |
| 15 | 23.4 (1.5) | 80.5 (3.6) | 1.84 (1.25) | 201 (44) | 56 (73) | |
| 16 | 21.9 (1.8) | 80.1 (4.1) | 2.63 (1.38) | 180 (41) | 52 (69) | |
| 17 | 23.0 (2.0) | 79.8 (3.1) | 2.71 (1.13) | 210 (46) | 53 (71) | |
| 18 | 26.2 (3.4) | 76.8 (7.2) | 3.01 (1.73) | 296 (65) | 116 (147) | |
| 19 | 28.0 (3.2) | 70.4 (11.4) | 2.39 (1.49) | 354 (132) | 139 (159) | |
| 20 | 29.4 (3.1) | 69.3 (9.4) | 3.59 (1.93) | 343 (136) | 126 (147) | |
| 21 | 27.6 (3.4) | 61.1 (11.4) | 3.44 (2.36) | 35 (135) | 141 (170) | |
| 22 | 25.4 (3.7) | 66.8 (12.1) | 2.83 (1.96) | 46 (105) | 141 (168) | |
| 23 | 25.6 (3.5) | 71.9 (12.4) | 1.53 (1.15) | 78 (99) | 124 (156) | |
| 24 | 26.1 (4.3) | 66.9 (16.1) | 2.24 (1.70) | 30 (130) | 146 (168) | |
| 25 | 26.7 (5.3) | 63.8 (17.6) | 1.69 (1.35) | 11 (146) | 151 (170) | |
| 26 | 27.8 (4.5) | 67.3 (12.8) | 2.64 (1.94) | 332 (128) | 140 (164) | |
| 27 | 27.3 (4.3) | 66.1 (13.9) | 2.30 (1.85) | 50 (119) | 144 (165) | |
| 28 | 25.7 (4.5) | 62.8 (15.4) | 1.95 (1.45) | 351 (146) | 132 (162) | |
| 29 | 27.3 (3.8) | 56.9 (18.9) | 2.61 (1.82) | 18 (143) | 158 (175) | |
| 30 | 26.6 (5.3) | 58.3 (19.2) | 1.79 (1.83) | 343 (140) | 145 (171) | |
| Mean | 25.6 | 70.1 | 2.46 | 345.0 | 132 | |
| n | 30 | 30 | 30 | 30 | 30 | 0 |
| SD | 2.0 | 6.7 | 0.69 | 126.0 | 34 | |
| Min | 20.6 | 56.9 | 1.02 | 11.0 | 52 | |
| Max | 29.4 | 80.6 | 3.94 | 354.0 | 191 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for July, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^{2}$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 27.8 (4.8) | 57.8 (18.0) | 2.51 (1.95) | 347.0 (145.0) | 148.0 (169.0) | |
| 2 | 25.9 (3.8) | 66.1 (15.9) | 1.97 (1.45) | 7 (153) | 134 (157) | |
| 3 | 24.6 (3.2) | 58.6 (11.5) | 2.47 (1.57) | 38 (121) | 136 (162) | |
| 4 | 24.3 (4.7) | 60.6 (15.7) | 1.81 (1.56) | 357 (157) | 147 (173) | |
| 5 | 24.0 (1.3) | 74.6 (6.6) | 1.57 (1.07) | 170 (79) | 46 (56) | |
| 6 | 24.0 (2.3) | 76.9 (8.0) | 1.75 (1.09) | 114 (74) | 83 (122) | |
| 7 | 25.4 (4.8) | 66.0 (18.4) | 1.16 (1.05) | 14 (130) | 153 (176) | |
| 8 | 26.5 (4.9) | 61.7 (15.4) | 2.11 (1.42) | 133 (88) | 145 (164) | |
| 9 | 25.1 (2.4) | 61.4 (9.8) | 2.63 (1.53) | 160 (57) | 100 (132) | |
| 10 | 24.5 (3.2) | 64.4 (12.5) | 2.16 (1.28) | 158 (59) | 121 (159) | |
| 11 | 24.9 (4.1) | 68.3 (8.7) | 2.97 (1.94) | 294 (73) | 119 (154) | |
| 12 | 28.4 (3.6) | 66.6 (11.2) | 3.43 (1.61) | 335 (126) | 117 (152) | |
| 13 | 24.4 (1.4) | 80.0 (4.5) | 1.92 (1.54) | 331 (128) | 57 (73) | |
| 14 | 25.5 (4.3) | 56.8 (22.1) | 2.84 (1.99) | 117 (89) | 161 (180) | |
| 15 | 25.4 (5.1) | 59.8 (16.7) | 2.19 (1.56) | 281 (92) | 154 (175) | |
| 16 | 27.2 (2.9) | 71.5 (8.0) | 4.08 (1.79) | 315 (83) | 94 (111) | |
| 17 | 26.2 (3.3) | 78.8 (8.4) | 2.90 (2.52) | 287 (70) | 112 (158) | |
| 18 | 25.3 (3.0) | 69.6 (15.2) | 2.35 (1.63) | 28 (130) | 128 (160) | |
| 19 | 25.4 (4.1) | 59.9 (11.5) | 1.98 (1.09) | 135 (80) | 130 (165) | |
| 20 | 23.2 (1.8) | 81.2 (3.9) | 2.59 (1.52) | 153 (61) | 44 (72) | |
| 21 | 25.3 (3.6) | 72.5 (12.0) | 1.37 (0.90) | 196 (85) | 127 (167) | |
| 22 | 25.6 (3.7) | 74.5 (12.2) | 1.66 (1.32) | 210 (48) | 120 (159) | |
| 23 | 26.8 (3.2) | 74.7 (9.9) | 2.28 (1.58) | 311 (113) | 118 (161) | |
| 24 | 27.0 (3.6) | 67.1 (15.7) | 1.74 (1.46) | 357 (137) | 127 (159) | |
| 25 | 26.9 (4.4) | 69.0 (15.2) | 2.36 (1.90) | 299 (103) | 150 (172) | |
| 26 | 27.9 (4.2) | 70.1 (13.0) | 4.06 (2.02) | 290 (36) | 143 (168) | |
| 27 | 26.5 (3.2) | 75.9 (11.2) | 3.23 (2.04) | 286 (54) | 86 (120) | |
| 28 | 26.9 (4.1) | 73.5 (9.9) | 3.11 (1.88) | 289 (50) | 110 (130) | |
| 29 | 26.6 (2.0) | 78.4 (6.5) | 4.41 (2.13) | 296 (40) | 78 (99) | |
| 30 | 27.9 (3.4) | 71.8 (11.5) | 3.83 (1.35) | 318 (92) | 107 (133) | |
| 31 | 26.1 (3.0) | 77.9 (8.8) | 5.09 (2.94) | 301 (29) | 84 (122) | |
| Mean | 25.9 | 69.2 | 2.60 | 312.0 | 115 | |
| n | 31 | 31 | 31 | 31 | 31 | 0 |
| SD | 1.3 | 7.1 | 0.93 | 108.0 | 31 | |
| Min | 23.2 | 56.8 | 1.16 | 7.0 | 44 | |
| Max | 28.4 | 81.2 | 5.09 | 357.0 | 161 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for August, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^2$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 27.0 (2.8) | 77.4 (7.9) | 2.06 (1.22) | 298.0 (91.0) | 93.0 (122.0) | |
| 2 | 26.0 (1.1) | 82.4 (3.1) | 3.55 (1.72) | 300 (38) | 50 (65) | |
| 3 | 27.8 (3.6) | 71.7 (13.8) | 1.63 (1.00) | 321 (120) | 101 (133) | |
| 4 | 27.7 (3.9) | 70.2 (14.2) | 1.57 (1.32) | 327 (127) | 108 (132) | |
| 5 | 28.3 (3.8) | 70.6 (12.0) | 2.69 (1.77) | 315 (103) | 102 (129) | |
| 6 | 24.6 (1.7) | 80.7 (5.3) | 1.95 (1.50) | 53 (102) | 49 (70) | |
| 7 | 26.0 (3.8) | 68.1 (15.6) | 1.30 (0.90) | 324 (117) | 107 (129) | |
| 8 | 26.8 (3.5) | 69.9 (10.3) | 2.73 (1.83) | 288 (69) | 82 (103) | |
| 9 | 29.5 (4.7) | 66.0 (13.6) | 3.15 (1.77) | 335 (125) | 102 (122) | |
| 10 | 30.5 (4.3) | 65.4 (13.4) | 2.53 (1.46) | 352 (151) | 104 (126) | |
| 11 | 29.2 (4.8) | 68.2 (16.6) | 2.49 (1.79) | 354 (141) | 104 (126) | |
| 12 | 25.8 (2.5) | 80.0 (6.6) | 1.66 (1.04) | 12 (147) | 59 (85) | |
| 13 | 25.0 (1.8) | 80.6 (5.9) | 1.05 (0.79) | 322 (118) | 46 (67) | |
| 14 | 24.8 (1.8) | 81.6 (5.5) | 1.83 (1.48) | 143 (74) | 52 (80) | |
| 15 | 25.9 (2.7) | 77.6 (8.0) | 1.40 (1.02) | 130 (81) | 74 (107) | |
| 16 | 26.3 (3.8) | 75.6 (11.0) | 0.87 (0.80) | 79 (102) | 79 (110) | |
| 17 | 26.9 (4.1) | 72.9 (13.9) | 1.21 (1.07) | 345 (122) | 93 (125) | |
| 18 | 28.8 (3.6) | 69.0 (12.5) | 3.08 (1.78) | 314 (93) | 99 (122) | |
| 19 | 29.0 (3.7) | 69.0 (12.1) | 3.56 (1.77) | 307 (73) | 100 (126) | |
| 20 | 28.4 (2.6) | 74.7 (7.7) | 3.47 (1.86) | 308 (79) | 74 (103) | |
| 21 | 27.3 (2.6) | 77.9 (8.3) | 2.85 (1.55) | 285 (48) | 70 (112) | |
| 22 | 25.1 (2.7) | 82.3 (6.2) | 1.51 (1.28) | 308 (112) | 52 (100) | |
| 23 | 24.6 (2.9) | 79.3 (7.7) | 1.42 (1.24) | 184 (85) | 71 (97) | |
| 24 | 25.5 (3.5) | 77.2 (9.4) | 1.44 (1.03) | 67 (91) | 84 (116) | |
| 25 | 26.8 (3.9) | 72.8 (12.9) | 1.41 (1.20) | 131 (86) | 102 (127) | |
| 26 | 27.3 (4.0) | 71.2 (12.2) | 1.55 (1.21) | 311 (113) | 92 (117) | |
| 27 | 28.6 (4.2) | 67.3 (15.7) | 1.65 (0.96) | 310 (110) | 98 (122) | |
| 28 | 26.6 (3.0) | 76.4 (8.7) | 1.57 (1.31) | 216 (74) | 66 (95) | |
| 29 | 26.7 (3.0) | 74.6 (10.5) | 2.66 (1.44) | 346 (131) | 85 (119) | |
| 30 | 26.1 (2.8) | 71.5 (11.9) | 1.74 (1.24) | 26 (131) | 80 (98) | |
| 31 | 20.8 (1.1) | 84.4 (0.6) | 2.40 (1.36) | 126 (59) | 13 (17) | |
| Mean | 26.8 | 74.4 | 2.06 | 331.0 | 80 | |
| n | 31 | 31 | 31 | 31 | 31 | 0 |
| SD | 1.9 | 5.3 | 0.77 | 109.0 | 23 | |
| Min | 20.8 | 65.4 | 0.87 | 12.0 | 13 | |
| Max | 30.5 | 84.4 | 3.56 | 354.0 | 108 | |

**Table E1. Daily means (SD) of weather parameters at Site NC2B for September, 2009**

| Day | Temperature, ºC | RH, % | Wind speed, $m \cdot s^{-1}$ | Wind direction, ° | Solar, $W \cdot m^{2}$ | Atm. P, kPa |
|---|---|---|---|---|---|---|
| 1 | 21.2 (3.2) | 68.6 (13.1) | 3.29 (2.08) | 112.0 (39.0) | 102.0 (127.0) | |
| 2 | 20.7 (3.7) | 70.1 (9.8) | 3.31 (2.16) | 116 (39) | 81 (107) | |
| 3 | 21.3 (3.3) | 75.4 (7.5) | 3.03 (1.81) | 89 (63) | 69 (87) | |
| 4 | 22.1 (5.3) | 67.1 (19.2) | 1.85 (1.38) | 45 (87) | 99 (123) | |
| 5 | 23.7 (6.0) | 67.8 (16.2) | 1.29 (1.17) | 148 (98) | 93 (117) | |
| 6 | 23.7 (4.3) | 68.0 (14.2) | 2.14 (1.86) | 121 (78) | 80 (102) | |
| 7 | 22.4 (1.5) | 83.6 (0.8) | 2.69 (1.36) | 136 (47) | 23 (38) | |
| 8 | 22.6 (1.7) | 81.3 (3.5) | 3.65 (1.58) | 90 (59) | 58 (89) | |
| 9 | 22.6 (3.9) | 71.7 (12.4) | 2.53 (1.12) | 101 (53) | 82 (108) | |
| 10 | 20.0 (1.8) | 78.4 (5.5) | 3.51 (1.45) | 93 (34) | 24 (36) | |
| 11 | 21.2 (3.6) | 71.0 (10.7) | 2.19 (1.54) | 53 (106) | 91 (121) | |
| 12 | 22.4 (4.6) | 69.7 (14.7) | 1.46 (1.30) | 40 (118) | 88 (112) | |
| 13 | 21.4 (4.6) | 73.3 (12.4) | 1.74 (1.56) | 41 (121) | 79 (111) | |
| 14 | 22.8 (5.7) | 68.5 (17.5) | 1.13 (0.98) | 42 (114) | 91 (114) | |
| 15 | 24.5 (5.5) | 69.7 (13.8) | 1.01 (1.04) | 341 (118) | 79 (109) | |
| 16 | 23.1 (2.2) | 79.3 (4.7) | 1.89 (1.41) | 39 (111) | 39 (68) | |
| 17 | 22.2 (1.2) | 83.2 (1.5) | 1.91 (1.08) | 130 (59) | 19 (25) | |
| 18 | 21.9 (1.9) | 78.9 (6.4) | 0.92 (0.70) | 139 (93) | 37 (50) | |
| 19 | 22.0 (3.7) | 78.3 (7.8) | 2.07 (1.61) | 132 (72) | 60 (92) | |
| 20 | 21.2 (3.4) | 71.7 (10.7) | 2.48 (1.40) | 156 (32) | 69 (98) | |
| 21 | 21.9 (4.8) | 73.6 (12.6) | 1.67 (1.13) | 141 (74) | 70 (102) | |
| 22 | 24.6 (2.5) | 80.2 (4.4) | 1.91 (1.18) | 163 (41) | 41 (70) | |
| 23 | 24.5 (2.0) | 82.1 (3.9) | 1.39 (1.33) | 214 (86) | 52 (91) | |
| 24 | 26.2 (3.3) | 77.9 (8.1) | | 323 (116) | | |
| 25 | 21.8 (2.8) | 83.5 (1.1) | | 119 (78) | | |
| 26 | 20.0 (1.1) | 81.2 (3.1) | | 170 (45) | | |
| 27 | 22.1 (2.9) | 77.4 (9.8) | | 357 (147) | | |
| 28 | 21.4 (4.9) | 70.9 (13.1) | | 346 (132) | | |
| 29 | 16.2 (3.3) | 64.5 (12.6) | | 359 (155) | | |
| 30 | 16.0 (4.8) | 69.4 (14.7) | | 13 (151) | | |
| Mean | 21.9 | 74.5 | 2.13 | 90.0 | 66 | |
| n | 30 | 30 | 23 | 30 | 23 | 0 |
| SD | 2.1 | 5.7 | 0.79 | 100.0 | 25 | |
| Min | 16.0 | 64.5 | 0.92 | 13.0 | 19 | |
| Max | 26.2 | 83.6 | 3.65 | 359.0 | 102 | |

**Table E2. Characteristics of house inventories.**

**Table E2. Daily means of animal characteristics at Site NC2B for September, 2007**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | 92,138 | | |
| 8 | | | | 92,133 | | |
| 9 | | | | 92,128 | | |
| 10 | | | | 92,123 | | |
| 11 | | | | 92,118 | | |
| 12 | | | | 92,113 | | |
| 13 | | | | 92,108 | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | 95,268 | | | | | |
| 20 | 95,270 | | | | | |
| 21 | 95,271 | | | | | |
| 22 | 95,273 | | | | | |
| 23 | 95,274 | 1.63 | | 92,058 | 1.49 | |
| 24 | 95,276 | 1.63 | 49.2 | 92,053 | 1.49 | 43.6 |
| 25 | 95,277 | 1.63 | 49.2 | 92,048 | 1.49 | 43.6 |
| 26 | 95,279 | 1.63 | 49.2 | 92,043 | 1.49 | 43.6 |
| 27 | 95,280 | 1.63 | 49.2 | 92,038 | 1.49 | 43.6 |
| 28 | 95,282 | 1.63 | 49.2 | 92,033 | 1.49 | 43.6 |
| 29 | 95,283 | 1.63 | 49.2 | 92,028 | 1.49 | 43.6 |
| 30 | 95,285 | 1.63 | 49.2 | 92,023 | 1.49 | 43.6 |
| Mean | 95,277 | 1.63 | 49.2 | 92,079 | 1.49 | 43.6 |
| n | 12 | 8 | 7 | 15 | 8 | 7 |
| SD | 5 | 0.00 | 0.0 | 43 | 0.00 | 0.0 |
| Min | 95,268 | 1.63 | 49.2 | 92,023 | 1.49 | 43.6 |
| Max | 95,285 | 1.63 | 49.2 | 92,138 | 1.49 | 43.6 |

**Table E2. Daily means of animal characteristics at Site NC2B for October, 2007**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,286 | 1.63 | 49.3 | 92,018 | 1.49 | 43.6 |
| 2 | 95,288 | 1.63 | 49.3 | 92,013 | 1.49 | 43.6 |
| 3 | 95,289 | 1.63 | 49.3 | 92,008 | 1.49 | 43.6 |
| 4 | 95,291 | 1.63 | 49.3 | 92,003 | 1.49 | 43.6 |
| 5 | 95,292 | 1.63 | 49.3 | 91,998 | 1.49 | 43.6 |
| 6 | 95,294 | 1.63 | 49.3 | 91,993 | 1.49 | 43.6 |
| 7 | 95,296 | 1.63 | 49.3 | 91,988 | 1.49 | 43.6 |
| 8 | 95,297 | 1.63 | 49.3 | 91,983 | 1.49 | 43.6 |
| 9 | 95,299 | 1.63 | 49.3 | 91,978 | 1.49 | 43.6 |
| 10 | 95,300 | 1.63 | 49.3 | 91,973 | 1.49 | 43.6 |
| 11 | 95,302 | 1.63 | 49.3 | 91,968 | 1.49 | 43.6 |
| 12 | 95,303 | 1.63 | 49.4 | 91,963 | 1.49 | 43.6 |
| 13 | 95,305 | 1.63 | 49.4 | 91,958 | 1.49 | 43.6 |
| 14 | 95,306 | 1.63 | 49.4 | 91,953 | 1.49 | 43.6 |
| 15 | 95,308 | 1.63 | 49.4 | 91,948 | 1.49 | 43.6 |
| 16 | 95,309 | 1.63 | 49.4 | 91,943 | 1.49 | 43.6 |
| 17 | 95,311 | 1.63 | 49.4 | 91,938 | 1.49 | 43.6 |
| 18 | 95,312 | 1.63 | 49.4 | 91,933 | 1.49 | 43.6 |
| 19 | 95,314 | 1.63 | 49.4 | 91,928 | 1.49 | 43.6 |
| 20 | 95,315 | 1.63 | 49.4 | 91,923 | 1.49 | 43.6 |
| 21 | 95,317 | 1.63 | 49.4 | 91,918 | 1.49 | 43.6 |
| 22 | 95,318 | 1.63 | 49.4 | 91,913 | 1.49 | 43.6 |
| 23 | 95,320 | 1.63 | 49.5 | 91,908 | 1.49 | 43.6 |
| 24 | 95,321 | 1.63 | 49.5 | 91,903 | 1.49 | 43.6 |
| 25 | 95,323 | 1.63 | 49.5 | 91,898 | 1.49 | 43.6 |
| 26 | 95,324 | 1.64 | 49.5 | 91,893 | 1.50 | 43.6 |
| 27 | 95,326 | 1.64 | 49.5 | 91,888 | 1.50 | 43.6 |
| 28 | 95,327 | 1.64 | 49.5 | 91,883 | 1.50 | 43.6 |
| 29 | 95,329 | 1.64 | 49.5 | 91,878 | 1.50 | 43.6 |
| 30 | 95,330 | 1.64 | 49.5 | 91,873 | 1.50 | 43.6 |
| 31 | 95,332 | 1.64 | 49.5 | 91,868 | 1.50 | 43.6 |
| Mean | 95,309 | 1.63 | 49.4 | 91,943 | 1.49 | 43.6 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 14 | 0.00 | 0.1 | 45 | 0.00 | 0.0 |
| Min | 95,286 | 1.63 | 49.3 | 91,868 | 1.49 | 43.6 |
| Max | 95,332 | 1.64 | 49.5 | 92,018 | 1.50 | 43.6 |

**Table E2. Daily means of animal characteristics at Site NC2B for November, 2007**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,333 | 1.64 | 49.5 | 91,863 | 1.50 | 43.6 |
| 2 | 95,335 | 1.64 | 49.5 | 91,858 | 1.50 | 43.6 |
| 3 | 95,336 | 1.64 | 49.6 | 91,853 | 1.50 | 43.6 |
| 4 | 95,338 | 1.64 | 49.6 | 91,848 | 1.50 | 43.6 |
| 5 | 95,339 | 1.64 | 49.6 | 91,843 | 1.50 | 43.6 |
| 6 | 95,341 | 1.64 | 49.6 | 91,838 | 1.50 | 43.6 |
| 7 | 95,342 | 1.64 | 49.6 | 91,833 | 1.50 | 43.6 |
| 8 | 95,344 | 1.64 | 49.6 | 91,828 | 1.50 | 43.6 |
| 9 | 95,346 | 1.64 | 49.6 | 91,823 | 1.50 | 43.6 |
| 10 | 95,347 | 1.64 | 49.6 | 91,818 | 1.50 | 43.6 |
| 11 | 95,349 | 1.64 | 49.6 | 91,813 | 1.50 | 43.6 |
| 12 | 95,350 | 1.64 | 49.6 | 91,808 | 1.50 | 43.6 |
| 13 | 95,352 | 1.64 | 49.6 | 91,803 | 1.50 | 43.6 |
| 14 | 95,353 | 1.64 | 49.7 | 91,798 | 1.50 | 43.6 |
| 15 | 95,355 | 1.64 | 49.7 | 91,793 | 1.50 | 43.6 |
| 16 | 95,356 | 1.64 | 49.7 | 91,788 | 1.50 | 43.6 |
| 17 | 95,358 | 1.64 | 49.7 | 91,783 | 1.50 | 43.6 |
| 18 | 95,359 | 1.64 | 49.7 | 91,778 | 1.50 | 43.6 |
| 19 | 95,361 | 1.64 | 49.7 | 91,773 | 1.50 | 43.6 |
| 20 | 95,362 | 1.64 | 49.7 | 91,768 | 1.50 | 43.6 |
| 21 | 95,364 | 1.64 | 49.7 | 91,763 | 1.50 | 43.6 |
| 22 | 95,365 | 1.64 | 49.7 | 91,758 | 1.50 | 43.6 |
| 23 | 95,367 | 1.64 | 49.7 | 91,753 | 1.50 | 43.7 |
| 24 | 95,368 | 1.64 | 49.7 | 91,748 | 1.50 | 43.7 |
| 25 | 95,370 | 1.64 | 49.8 | 91,743 | 1.50 | 43.7 |
| 26 | 95,371 | 1.64 | 49.8 | 91,738 | 1.50 | 43.7 |
| 27 | 95,373 | 1.64 | 49.8 | 91,733 | 1.50 | 43.7 |
| 28 | 95,374 | 1.64 | 49.8 | 91,728 | 1.50 | 43.7 |
| 29 | 95,376 | 1.64 | 49.8 | 91,723 | 1.50 | 43.7 |
| 30 | 95,377 | 1.64 | 49.8 | 91,718 | 1.50 | 43.7 |
| Mean | 95,355 | 1.64 | 49.7 | 91,790 | 1.50 | 43.6 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 13 | 0.00 | 0.1 | 43 | 0.00 | 0.0 |
| Min | 95,333 | 1.64 | 49.5 | 91,718 | 1.50 | 43.6 |
| Max | 95,377 | 1.64 | 49.8 | 91,863 | 1.50 | 43.7 |

**Table E2. Daily means of animal characteristics at Site NC2B for December, 2007**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,379 | 1.65 | 49.8 | 91,713 | 1.50 | 43.7 |
| 2 | 95,380 | 1.65 | 49.8 | 91,708 | 1.50 | 43.7 |
| 3 | 95,382 | 1.65 | 49.8 | 91,703 | 1.50 | 43.7 |
| 4 | 95,383 | 1.65 | 49.8 | 91,698 | 1.50 | 43.7 |
| 5 | 95,385 | 1.65 | 49.8 | 91,693 | 1.50 | 43.7 |
| 6 | 95,386 | 1.65 | 49.9 | 91,688 | 1.50 | 43.7 |
| 7 | 95,388 | 1.65 | 49.9 | 91,683 | 1.50 | 43.7 |
| 8 | 95,389 | 1.65 | 49.9 | 91,678 | 1.50 | 43.7 |
| 9 | 95,391 | 1.65 | 49.9 | 91,673 | 1.50 | 43.7 |
| 10 | 95,393 | 1.65 | 49.9 | 91,668 | 1.50 | 43.7 |
| 11 | 95,394 | 1.65 | 49.9 | 91,663 | 1.50 | 43.7 |
| 12 | 95,396 | 1.65 | 49.9 | 91,658 | 1.50 | 43.7 |
| 13 | 95,397 | 1.65 | 49.9 | 91,653 | 1.50 | 43.7 |
| 14 | 95,399 | 1.65 | 49.9 | 91,648 | 1.50 | 43.7 |
| 15 | 95,400 | 1.65 | 49.9 | 91,643 | 1.50 | 43.7 |
| 16 | 95,402 | 1.65 | 49.9 | 91,638 | 1.50 | 43.7 |
| 17 | 95,403 | 1.65 | 50.0 | 91,633 | 1.50 | 43.7 |
| 18 | 95,405 | 1.65 | 50.0 | 91,628 | 1.50 | 43.7 |
| 19 | 95,406 | 1.65 | 50.0 | 91,623 | 1.50 | 43.7 |
| 20 | 95,408 | 1.65 | 50.0 | 91,618 | 1.50 | 43.7 |
| 21 | 95,409 | 1.65 | 50.0 | 91,613 | 1.50 | 43.7 |
| 22 | 95,411 | 1.65 | 50.0 | 91,608 | 1.50 | 43.7 |
| 23 | 95,412 | 1.65 | 50.0 | 91,603 | 1.50 | 43.7 |
| 24 | 95,414 | 1.65 | 50.0 | 91,598 | 1.50 | 43.7 |
| 25 | 95,415 | 1.65 | 50.0 | 91,593 | 1.50 | 43.7 |
| 26 | 95,417 | 1.65 | 50.0 | 91,588 | 1.50 | 43.7 |
| 27 | 95,418 | 1.65 | 50.0 | 91,583 | 1.50 | 43.7 |
| 28 | 95,420 | 1.65 | 50.1 | 91,578 | 1.50 | 43.7 |
| 29 | 95,421 | 1.65 | 50.1 | 91,573 | 1.50 | 43.7 |
| 30 | 95,423 | 1.65 | 50.1 | 91,568 | 1.50 | 43.7 |
| 31 | 95,424 | 1.65 | 50.1 | 91,563 | 1.50 | 43.7 |
| Mean | 95,402 | 1.65 | 49.9 | 91,638 | 1.50 | 43.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 14 | 0.00 | 0.1 | 45 | 0.00 | 0.0 |
| Min | 95,379 | 1.65 | 49.8 | 91,563 | 1.50 | 43.7 |
| Max | 95,424 | 1.65 | 50.1 | 91,713 | 1.50 | 43.7 |

**Table E2. Daily means of animal characteristics at Site NC2B for January, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,426 | 1.65 | 50.1 | 91,558 | 1.50 | 43.7 |
| 2 | 95,427 | 1.65 | 50.1 | 91,553 | 1.50 | 43.7 |
| 3 | 95,429 | 1.65 | 50.1 | 91,548 | 1.50 | 43.7 |
| 4 | 95,430 | 1.65 | 50.1 | 91,543 | 1.50 | 43.7 |
| 5 | 95,432 | 1.65 | 50.1 | 91,538 | 1.50 | 43.7 |
| 6 | 95,433 | 1.65 | 50.1 | 91,533 | 1.50 | 43.7 |
| 7 | 95,435 | 1.66 | 50.1 | 91,528 | 1.50 | 43.7 |
| 8 | 95,436 | 1.66 | 50.2 | 91,523 | 1.50 | 43.7 |
| 9 | 95,438 | 1.66 | 50.2 | 91,518 | 1.50 | 43.7 |
| 10 | 95,439 | 1.66 | 50.2 | 91,513 | 1.50 | 43.7 |
| 11 | 95,441 | 1.66 | 50.2 | 91,508 | 1.50 | 43.7 |
| 12 | 95,443 | 1.66 | 50.2 | 91,503 | 1.50 | 43.7 |
| 13 | 95,444 | 1.66 | 50.2 | 91,498 | 1.51 | 43.7 |
| 14 | 95,446 | 1.66 | 50.2 | 91,493 | 1.51 | 43.7 |
| 15 | 95,447 | 1.66 | 50.2 | 91,488 | 1.51 | 43.7 |
| 16 | 95,449 | 1.66 | 50.2 | 91,483 | 1.51 | 43.7 |
| 17 | 95,450 | 1.66 | 50.2 | 91,478 | 1.51 | 43.7 |
| 18 | 95,452 | 1.66 | 50.2 | 91,473 | 1.51 | 43.7 |
| 19 | 95,453 | 1.66 | 50.3 | 91,468 | 1.51 | 43.7 |
| 20 | 95,455 | 1.66 | 50.3 | 91,463 | 1.51 | 43.7 |
| 21 | 95,456 | 1.66 | 50.3 | 91,458 | 1.51 | 43.7 |
| 22 | 95,458 | 1.66 | 50.3 | 91,453 | 1.51 | 43.7 |
| 23 | 95,459 | 1.66 | 50.3 | 91,448 | 1.51 | 43.7 |
| 24 | 95,461 | 1.66 | 50.3 | 91,443 | 1.51 | 43.7 |
| 25 | 95,462 | 1.66 | 50.3 | 91,438 | 1.51 | 43.7 |
| 26 | 95,464 | 1.66 | 50.3 | 91,433 | 1.51 | 43.7 |
| 27 | 95,465 | 1.66 | 50.3 | 91,428 | 1.51 | 43.7 |
| 28 | 95,467 | 1.66 | 50.3 | 91,423 | 1.51 | 43.7 |
| 29 | 95,468 | 1.66 | 50.3 | 91,418 | 1.51 | 43.7 |
| 30 | 95,470 | 1.66 | 50.4 | 91,413 | 1.51 | 43.7 |
| 31 | 95,471 | 1.66 | 50.4 | 91,408 | 1.51 | 43.7 |
| Mean | 95,449 | 1.66 | 50.2 | 91,483 | 1.51 | 43.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 14 | 0.00 | 0.1 | 45 | 0.00 | 0.0 |
| Min | 95,426 | 1.65 | 50.1 | 91,408 | 1.50 | 43.7 |
| Max | 95,471 | 1.66 | 50.4 | 91,558 | 1.51 | 43.7 |

**Table E2. Daily means of animal characteristics at Site NC2B for February, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,473 | 1.66 | 50.4 | 91,403 | 1.51 | 43.7 |
| 2 | 95,474 | 1.66 | 50.4 | 91,398 | 1.51 | 43.7 |
| 3 | 95,476 | 1.66 | 50.4 | 91,393 | 1.51 | 43.7 |
| 4 | 95,477 | 1.66 | 50.4 | 91,388 | 1.51 | 43.7 |
| 5 | 95,479 | 1.66 | 50.4 | 91,383 | 1.51 | 43.7 |
| 6 | 95,480 | 1.66 | 50.4 | 91,378 | 1.51 | 43.7 |
| 7 | 95,482 | 1.66 | 50.4 | 91,373 | 1.51 | 43.7 |
| 8 | 95,483 | 1.66 | 50.4 | 91,368 | 1.51 | 43.8 |
| 9 | 95,485 | 1.66 | 50.4 | 91,363 | 1.51 | 43.8 |
| 10 | 95,486 | 1.66 | 50.5 | 91,358 | 1.51 | 43.8 |
| 11 | 95,488 | 1.66 | 50.5 | 91,353 | 1.51 | 43.8 |
| 12 | 95,489 | 1.67 | 50.5 | 91,348 | 1.51 | 43.8 |
| 13 | 95,491 | 1.67 | 50.5 | 91,343 | 1.51 | 43.8 |
| 14 | 95,493 | 1.67 | 50.5 | 91,338 | 1.51 | 43.8 |
| 15 | 95,494 | 1.67 | 50.5 | 91,333 | 1.51 | 43.8 |
| 16 | 95,496 | 1.67 | 50.5 | 91,328 | 1.51 | 43.8 |
| 17 | 95,497 | 1.67 | 50.5 | 91,323 | 1.51 | 43.8 |
| 18 | 95,499 | 1.67 | 50.5 | 91,318 | 1.51 | 43.8 |
| 19 | 95,500 | 1.67 | 50.5 | 91,313 | 1.51 | 43.8 |
| 20 | 95,502 | 1.67 | 50.5 | 91,308 | 1.51 | 43.8 |
| 21 | 95,503 | 1.67 | 50.6 | 91,303 | 1.51 | 43.8 |
| 22 | 95,505 | 1.67 | 50.6 | 91,298 | 1.51 | 43.8 |
| 23 | 95,506 | 1.67 | 50.6 | 91,293 | 1.51 | 43.8 |
| 24 | 95,508 | 1.67 | 50.6 | 91,288 | 1.51 | 43.8 |
| 25 | 95,509 | 1.67 | 50.6 | 91,283 | 1.51 | 43.8 |
| 26 | 95,511 | 1.67 | 50.6 | 91,278 | 1.51 | 43.8 |
| 27 | 95,512 | 1.67 | 50.6 | 91,273 | 1.51 | 43.8 |
| 28 | 95,514 | 1.67 | 50.6 | 91,268 | 1.51 | 43.8 |
| 29 | 95,515 | 1.67 | 50.6 | 91,263 | 1.51 | 43.8 |
| Mean | 95,494 | 1.67 | 50.5 | 91,333 | 1.51 | 43.8 |
| n | 29 | 29 | 29 | 29 | 29 | 29 |
| SD | 13 | 0.00 | 0.1 | 42 | 0.00 | 0.0 |
| Min | 95,473 | 1.66 | 50.4 | 91,263 | 1.51 | 43.7 |
| Max | 95,515 | 1.67 | 50.6 | 91,403 | 1.51 | 43.8 |

**Table E2. Daily means of animal characteristics at Site NC2B for March, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,517 | 1.67 | 50.6 | 91,258 | 1.51 | 43.8 |
| 2 | 95,518 | 1.67 | 50.6 | 91,253 | 1.51 | 43.8 |
| 3 | 95,520 | 1.67 | 50.7 | 91,248 | 1.51 | 43.8 |
| 4 | 95,521 | 1.67 | 50.7 | 91,243 | 1.51 | 43.8 |
| 5 | 95,523 | 1.67 | 50.7 | 91,238 | 1.51 | 43.8 |
| 6 | 95,524 | 1.67 | 50.7 | 91,233 | 1.51 | 43.8 |
| 7 | 95,526 | 1.67 | 50.7 | 91,228 | 1.51 | 43.8 |
| 8 | 95,527 | 1.67 | 50.7 | 91,223 | 1.51 | 43.8 |
| 9 | 95,529 | 1.67 | 50.7 | 91,218 | 1.51 | 43.8 |
| 10 | 95,530 | 1.67 | 50.7 | 91,213 | 1.51 | 43.8 |
| 11 | 95,532 | 1.67 | 50.7 | 91,208 | 1.51 | 43.8 |
| 12 | 95,533 | 1.67 | 50.7 | 91,203 | 1.51 | 43.8 |
| 13 | 95,535 | 1.67 | 50.7 | 91,198 | 1.51 | 43.8 |
| 14 | 95,536 | 1.67 | 50.8 | 91,193 | 1.51 | 43.8 |
| 15 | 95,538 | 1.67 | 50.8 | 91,188 | 1.51 | 43.8 |
| 16 | 95,540 | 1.67 | 50.8 | 91,183 | 1.51 | 43.8 |
| 17 | 95,541 | 1.67 | 50.8 | 91,178 | 1.51 | 43.8 |
| 18 | 95,543 | 1.67 | 50.8 | 91,173 | 1.51 | 43.8 |
| 19 | 95,544 | 1.67 | 50.8 | 91,168 | 1.51 | 43.8 |
| 20 | 95,546 | 1.68 | 50.8 | 91,163 | 1.51 | 43.8 |
| 21 | 95,547 | 1.68 | 50.8 | 91,158 | 1.51 | 43.8 |
| 22 | 95,549 | 1.68 | 50.8 | 91,153 | 1.51 | 43.8 |
| 23 | 95,550 | 1.68 | 50.8 | 91,148 | 1.51 | 43.8 |
| 24 | 95,552 | 1.68 | 50.8 | 91,143 | 1.51 | 43.8 |
| 25 | 95,553 | 1.68 | 50.9 | 91,138 | 1.51 | 43.8 |
| 26 | 95,555 | 1.68 | 50.9 | 91,133 | 1.51 | 43.8 |
| 27 | 95,556 | 1.68 | 50.9 | 91,128 | 1.51 | 43.8 |
| 28 | 95,558 | 1.68 | 50.9 | 91,123 | 1.51 | 43.8 |
| 29 | 95,559 | 1.68 | 50.9 | 91,118 | 1.51 | 43.8 |
| 30 | 95,561 | 1.68 | 50.9 | 91,113 | 1.51 | 43.8 |
| 31 | 95,562 | 1.68 | 50.9 | 91,108 | 1.51 | 43.8 |
| Mean | 95,540 | 1.67 | 50.8 | 91,183 | 1.51 | 43.8 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 14 | 0.00 | 0.1 | 45 | 0.00 | 0.0 |
| Min | 95,517 | 1.67 | 50.6 | 91,108 | 1.51 | 43.8 |
| Max | 95,562 | 1.68 | 50.9 | 91,258 | 1.51 | 43.8 |

**Table E2. Daily means of animal characteristics at Site NC2B for April, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,553 | 1.68 | 50.9 | 91,101 | 1.52 | 43.8 |
| 2 | 95,533 | 1.68 | 50.9 | 91,080 | 1.52 | 43.8 |
| 3 | 95,515 | 1.68 | 50.9 | 91,053 | 1.52 | 43.8 |
| 4 | 95,500 | 1.68 | 50.9 | 91,033 | 1.52 | 43.8 |
| 5 | 95,546 | 1.67 | 50.7 | 91,013 | 1.52 | 43.8 |
| 6 | 0 | 0.00 | 0.0 | 90,986 | 1.52 | 43.8 |
| 7 | 0 | 0.00 | 0.0 | 90,969 | 1.52 | 43.8 |
| 8 | 0 | 0.00 | 0.0 | 90,944 | 1.52 | 43.7 |
| 9 | 0 | 0.00 | 0.0 | 90,906 | 1.52 | 43.7 |
| 10 | 0 | 0.00 | 0.0 | 90,892 | 1.52 | 43.7 |
| 11 | 0 | 0.00 | 0.0 | 90,889 | 1.52 | 43.7 |
| 12 | 0 | 0.00 | 0.0 | 90,855 | 1.52 | 43.7 |
| 13 | 0 | 0.00 | 0.0 | 90,818 | 1.52 | 43.7 |
| 14 | 0 | 0.00 | 0.0 | 90,799 | 1.52 | 43.7 |
| 15 | 0 | 0.00 | 0.0 | 90,779 | 1.52 | 43.7 |
| 16 | 0 | 0.00 | 0.0 | 90,749 | 1.52 | 43.6 |
| 17 | 0 | 0.00 | 0.0 | 90,718 | 1.52 | 43.6 |
| 18 | 0 | 0.00 | 0.0 | 90,700 | 1.52 | 43.6 |
| 19 | 0 | 0.00 | 0.0 | 90,681 | 1.52 | 43.6 |
| 20 | 0 | 0.00 | 0.0 | 90,660 | 1.52 | 43.6 |
| 21 | 0 | 0.00 | 0.0 | 90,639 | 1.52 | 43.6 |
| 22 | 0 | 0.00 | 0.0 | 90,620 | 1.52 | 43.6 |
| 23 | 0 | 0.00 | 0.0 | 90,598 | 1.52 | 43.6 |
| 24 | 0 | 0.00 | 0.0 | 90,562 | 1.52 | 43.6 |
| 25 | 0 | 0.00 | 0.0 | 90,521 | 1.52 | 43.5 |
| 26 | 0 | 0.00 | 0.0 | 90,495 | 1.52 | 43.5 |
| 27 | 0 | 0.00 | 0.0 | 90,469 | 1.52 | 43.5 |
| 28 | 97,875 | 1.33 | 41.2 | 90,437 | 1.52 | 43.5 |
| 29 | 97,995 | 1.32 | 41.1 | 90,407 | 1.52 | 43.5 |
| 30 | 97,995 | 1.32 | 41.1 | 90,380 | 1.52 | 43.5 |
| Mean | 25,717 | 0.41 | 12.6 | 90,758 | 1.52 | 43.7 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 42,651 | 0.69 | 21.0 | 212 | 0.00 | 0.1 |
| Min | 0 | 0.00 | 0.0 | 90,380 | 1.52 | 43.5 |
| Max | 97,995 | 1.68 | 50.9 | 91,101 | 1.52 | 43.8 |

**Table E2. Daily means of animal characteristics at Site NC2B for May, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,995 | 1.32 | 41.1 | 90,360 | 1.52 | 43.5 |
| 2 | 97,995 | 1.32 | 41.1 | 90,340 | 1.52 | 43.4 |
| 3 | 97,995 | 1.32 | 41.1 | 90,321 | 1.52 | 43.4 |
| 4 | 97,978 | 1.32 | 41.1 | 90,288 | 1.52 | 43.4 |
| 5 | 97,960 | 1.32 | 41.0 | 90,255 | 1.52 | 43.4 |
| 6 | 97,955 | 1.32 | 41.0 | 90,232 | 1.52 | 43.4 |
| 7 | 97,912 | 1.32 | 41.0 | 90,209 | 1.52 | 43.4 |
| 8 | 97,872 | 1.32 | 41.0 | 90,199 | 1.52 | 43.4 |
| 9 | 97,872 | 1.32 | 41.0 | 90,186 | 1.52 | 43.4 |
| 10 | 97,895 | 1.32 | 41.0 | 90,144 | 1.52 | 43.4 |
| 11 | 97,920 | 1.32 | 41.0 | 90,108 | 1.52 | 43.3 |
| 12 | 97,845 | 1.32 | 41.0 | 90,093 | 1.52 | 43.3 |
| 13 | 97,767 | 1.32 | 41.0 | 90,063 | 1.52 | 43.3 |
| 14 | 97,764 | 1.32 | 41.0 | 90,030 | 1.52 | 43.3 |
| 15 | 97,758 | 1.32 | 41.0 | 90,000 | 1.52 | 43.3 |
| 16 | 97,750 | 1.32 | 41.0 | 89,963 | 1.52 | 43.3 |
| 17 | 97,741 | 1.32 | 41.0 | 89,937 | 1.52 | 43.3 |
| 18 | 97,734 | 1.32 | 41.0 | 89,912 | 1.52 | 43.2 |
| 19 | 97,729 | 1.37 | 42.4 | 89,882 | 1.55 | 44.3 |
| 20 | 97,727 | 1.41 | 43.8 | 89,856 | 1.59 | 45.3 |
| 21 | 97,724 | 1.41 | 43.8 | 89,830 | 1.59 | 45.3 |
| 22 | 97,718 | 1.41 | 43.8 | 89,794 | 1.59 | 45.3 |
| 23 | 97,710 | 1.41 | 43.8 | 89,757 | 1.59 | 45.2 |
| 24 | 97,706 | 1.41 | 43.8 | 89,740 | 1.59 | 45.2 |
| 25 | 97,701 | 1.41 | 43.8 | 89,722 | 1.59 | 45.2 |
| 26 | 97,695 | 1.41 | 43.8 | 89,692 | 1.59 | 45.2 |
| 27 | 97,692 | 1.41 | 43.8 | 89,660 | 1.59 | 45.2 |
| 28 | 97,688 | 1.41 | 43.7 | 89,631 | 1.59 | 45.2 |
| 29 | 97,681 | 1.41 | 43.7 | 89,598 | 1.59 | 45.2 |
| 30 | 97,674 | 1.43 | 44.3 | 89,563 | 1.59 | 45.1 |
| 31 | 97,669 | 1.45 | 44.9 | 89,534 | 1.59 | 45.1 |
| Mean | 97,800 | 1.36 | 42.2 | 89,964 | 1.54 | 44.1 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 112 | 0.05 | 1.4 | 248 | 0.04 | 0.9 |
| Min | 97,669 | 1.32 | 41.0 | 89,534 | 1.52 | 43.2 |
| Max | 97,995 | 1.45 | 44.9 | 90,360 | 1.59 | 45.3 |

**Table E2. Daily means of animal characteristics at Site NC2B for June, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,663 | 1.45 | 44.9 | 89,506 | 1.59 | 45.1 |
| 2 | 97,657 | 1.45 | 44.9 | 89,669 | 1.58 | 44.9 |
| 3 | 97,650 | 1.45 | 44.9 | 0 | 0.00 | 0.0 |
| 4 | 97,644 | 1.44 | 44.6 | 0 | 0.00 | 0.0 |
| 5 | 97,639 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 6 | 97,633 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 7 | 97,626 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 8 | 97,615 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 9 | 97,608 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 10 | 97,599 | 1.43 | 44.3 | 0 | 0.00 | 0.0 |
| 11 | 97,585 | 1.40 | 43.5 | 0 | 0.00 | 0.0 |
| 12 | 97,578 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 13 | 97,573 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 14 | 97,567 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 15 | 97,562 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 16 | 97,556 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 17 | 97,550 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| 18 | 97,548 | 1.40 | 43.5 | 0 | 0.00 | 0.0 |
| 19 | 97,546 | 1.43 | 44.2 | 0 | 0.00 | 0.0 |
| 20 | 97,545 | 1.43 | 44.2 | 0 | 0.00 | 0.0 |
| 21 | 97,544 | 1.43 | 44.2 | 0 | 0.00 | 0.0 |
| 22 | 97,541 | 1.43 | 44.2 | 0 | 0.00 | 0.0 |
| 23 | 97,530 | 1.44 | 44.5 | 97,101 | 1.22 | 37.6 |
| 24 | 97,520 | 1.44 | 44.7 | 97,347 | 1.21 | 37.4 |
| 25 | 97,517 | 1.44 | 44.7 | 97,347 | 1.21 | 37.4 |
| 26 | 97,513 | 1.44 | 44.7 | 97,345 | 1.21 | 37.4 |
| 27 | 97,511 | 1.44 | 44.7 | 97,344 | 1.21 | 37.4 |
| 28 | 97,505 | 1.44 | 44.6 | 97,342 | 1.21 | 37.4 |
| 29 | 97,496 | 1.44 | 44.6 | 97,336 | 1.21 | 37.4 |
| 30 | 97,490 | 1.44 | 44.5 | 97,331 | 1.25 | 38.6 |
| Mean | 97,570 | 1.42 | 44.1 | 31,922 | 0.43 | 13.0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 51 | 0.02 | 0.8 | 45,180 | 0.61 | 18.5 |
| Min | 97,490 | 1.38 | 42.7 | 0 | 0.00 | 0.0 |
| Max | 97,663 | 1.45 | 44.9 | 97,347 | 1.59 | 45.1 |

**Table E2. Daily means of animal characteristics at Site NC2B for July, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,486 | 1.43 | 44.4 | 97,195 | 1.29 | 39.7 |
| 2 | 97,484 | 1.43 | 44.4 | 97,059 | 1.29 | 39.7 |
| 3 | 97,482 | 1.43 | 44.4 | 97,056 | 1.29 | 39.7 |
| 4 | 97,480 | 1.43 | 44.4 | 97,053 | 1.29 | 39.7 |
| 5 | 97,479 | 1.43 | 44.4 | 97,050 | 1.29 | 39.7 |
| 6 | 97,480 | 1.45 | 44.8 | 97,047 | 1.32 | 40.6 |
| 7 | 97,479 | 1.46 | 45.2 | 97,043 | 1.35 | 41.5 |
| 8 | 97,477 | 1.46 | 45.2 | 97,038 | 1.35 | 41.5 |
| 9 | 97,473 | 1.46 | 45.2 | 97,032 | 1.35 | 41.5 |
| 10 | 97,469 | 1.46 | 45.2 | 97,027 | 1.35 | 41.5 |
| 11 | 97,467 | 1.46 | 45.2 | 97,024 | 1.35 | 41.5 |
| 12 | 97,463 | 1.46 | 45.2 | 97,021 | 1.35 | 41.5 |
| 13 | 97,457 | 1.46 | 45.2 | 97,016 | 1.35 | 41.5 |
| 14 | 97,454 | 1.46 | 45.2 | 97,012 | 1.35 | 41.5 |
| 15 | 97,450 | 1.46 | 45.2 | 97,007 | 1.35 | 41.5 |
| 16 | 97,447 | 1.46 | 45.2 | 97,004 | 1.35 | 41.5 |
| 17 | 97,443 | 1.46 | 45.2 | 96,999 | 1.35 | 41.5 |
| 18 | 97,439 | 1.46 | 45.2 | 96,993 | 1.35 | 41.5 |
| 19 | 97,435 | 1.46 | 45.2 | 96,987 | 1.37 | 42.0 |
| 20 | 97,432 | 1.46 | 45.2 | 96,980 | 1.38 | 42.6 |
| 21 | 97,428 | 1.46 | 45.2 | 96,974 | 1.38 | 42.6 |
| 22 | 97,424 | 1.46 | 45.2 | 96,965 | 1.38 | 42.6 |
| 23 | 97,408 | 1.46 | 45.2 | 96,954 | 1.38 | 42.6 |
| 24 | 97,392 | 1.46 | 45.2 | 96,947 | 1.38 | 42.6 |
| 25 | 97,398 | 1.46 | 45.2 | 96,944 | 1.38 | 42.6 |
| 26 | 97,406 | 1.46 | 45.2 | 96,939 | 1.38 | 42.6 |
| 27 | 97,404 | 1.46 | 45.2 | 96,931 | 1.38 | 42.6 |
| 28 | 97,402 | 1.46 | 45.2 | 96,923 | 1.40 | 43.0 |
| 29 | 97,400 | 1.46 | 45.2 | 96,920 | 1.41 | 43.4 |
| 30 | 97,398 | 1.46 | 45.2 | 96,917 | 1.41 | 43.4 |
| 31 | 97,396 | 1.46 | 45.2 | 96,911 | 1.41 | 43.4 |
| Mean | 97,443 | 1.46 | 45.0 | 96,999 | 1.35 | 41.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 32 | 0.01 | 0.3 | 58 | 0.04 | 1.1 |
| Min | 97,392 | 1.43 | 44.4 | 96,911 | 1.29 | 39.7 |
| Max | 97,486 | 1.46 | 45.2 | 97,195 | 1.41 | 43.4 |

**Table E2. Daily means of animal characteristics at Site NC2B for August, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,393 | 1.46 | 45.2 | 96,907 | 1.41 | 43.4 |
| 2 | 97,391 | 1.47 | 45.5 | 96,904 | 1.41 | 43.4 |
| 3 | 97,390 | 1.48 | 45.9 | 96,900 | 1.41 | 43.4 |
| 4 | 97,386 | 1.48 | 45.7 | 96,892 | 1.41 | 43.4 |
| 5 | 97,381 | 1.47 | 45.6 | 96,884 | 1.40 | 43.0 |
| 6 | 97,379 | 1.47 | 45.6 | 96,888 | 1.39 | 42.7 |
| 7 | 97,377 | 1.47 | 45.6 | 96,886 | 1.39 | 42.7 |
| 8 | 97,368 | 1.47 | 45.6 | 96,869 | 1.39 | 42.7 |
| 9 | 97,360 | 1.47 | 45.6 | 96,863 | 1.39 | 42.8 |
| 10 | 97,355 | 1.47 | 45.6 | 96,860 | 1.40 | 43.0 |
| 11 | 97,351 | 1.47 | 45.6 | 96,855 | 1.40 | 43.0 |
| 12 | 97,348 | 1.47 | 45.6 | 96,850 | 1.41 | 43.2 |
| 13 | 97,344 | 1.47 | 45.6 | 96,846 | 1.42 | 43.5 |
| 14 | 97,342 | 1.47 | 45.6 | 96,842 | 1.42 | 43.5 |
| 15 | 97,342 | 1.47 | 45.6 | 96,838 | 1.42 | 43.5 |
| 16 | 97,341 | 1.47 | 45.6 | 96,833 | 1.42 | 43.5 |
| 17 | 97,340 | 1.47 | 45.6 | 96,829 | 1.42 | 43.5 |
| 18 | 97,338 | 1.47 | 45.6 | 96,825 | 1.43 | 44.0 |
| 19 | 97,333 | 1.47 | 45.6 | 96,819 | 1.45 | 44.5 |
| 20 | 97,328 | 1.47 | 45.5 | 96,812 | 1.45 | 44.5 |
| 21 | 97,326 | 1.47 | 45.5 | 96,807 | 1.45 | 44.5 |
| 22 | 97,322 | 1.47 | 45.5 | 96,802 | 1.45 | 44.5 |
| 23 | 97,318 | 1.47 | 45.5 | 96,800 | 1.45 | 44.5 |
| 24 | 97,314 | 1.47 | 45.5 | 96,798 | 1.45 | 44.5 |
| 25 | 97,308 | 1.48 | 45.8 | 96,794 | 1.44 | 44.3 |
| 26 | 97,299 | 1.49 | 46.0 | 96,789 | 1.44 | 44.2 |
| 27 | 97,289 | 1.49 | 46.0 | 96,785 | 1.44 | 44.2 |
| 28 | 97,280 | 1.49 | 45.9 | 96,781 | 1.44 | 44.2 |
| 29 | 97,275 | 1.49 | 45.9 | 96,777 | 1.44 | 44.2 |
| 30 | 97,272 | 1.49 | 45.9 | 96,772 | 1.44 | 44.2 |
| 31 | 97,270 | 1.49 | 45.9 | 96,768 | 1.44 | 44.2 |
| Mean | 97,337 | 1.48 | 45.6 | 96,834 | 1.42 | 43.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 36 | 0.01 | 0.2 | 42 | 0.02 | 0.6 |
| Min | 97,270 | 1.46 | 45.2 | 96,768 | 1.39 | 42.7 |
| Max | 97,393 | 1.49 | 46.0 | 96,907 | 1.45 | 44.5 |

**Table E2. Daily means of animal characteristics at Site NC2B for September, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,267 | 1.49 | 45.9 | 96,767 | 1.44 | 44.2 |
| 2 | 97,262 | 1.49 | 45.9 | 96,766 | 1.44 | 44.4 |
| 3 | 97,253 | 1.49 | 45.9 | 96,758 | 1.45 | 44.6 |
| 4 | 97,243 | 1.49 | 45.9 | 96,749 | 1.45 | 44.6 |
| 5 | 97,236 | 1.49 | 45.9 | 96,745 | 1.45 | 44.6 |
| 6 | 97,231 | 1.49 | 45.9 | 96,741 | 1.45 | 44.6 |
| 7 | 97,229 | 1.49 | 45.9 | 96,733 | 1.45 | 44.6 |
| 8 | 97,226 | 1.49 | 45.9 | 96,724 | 1.45 | 44.6 |
| 9 | 97,219 | 1.49 | 45.9 | 96,718 | 1.45 | 44.6 |
| 10 | 97,211 | 1.50 | 46.2 | 96,713 | 1.46 | 44.9 |
| 11 | 97,206 | 1.51 | 46.5 | 96,707 | 1.47 | 45.3 |
| 12 | 97,201 | 1.51 | 46.5 | 96,701 | 1.47 | 45.3 |
| 13 | 97,190 | 1.51 | 46.5 | 96,693 | 1.47 | 45.3 |
| 14 | 97,181 | 1.51 | 46.5 | 96,688 | 1.47 | 45.2 |
| 15 | 97,177 | 1.51 | 46.5 | 96,685 | 1.47 | 45.2 |
| 16 | 97,181 | 1.51 | 46.5 | 96,678 | 1.47 | 45.2 |
| 17 | 97,177 | 1.51 | 46.5 | 96,670 | 1.47 | 45.2 |
| 18 | 97,166 | 1.51 | 46.5 | 96,663 | 1.47 | 45.2 |
| 19 | 97,163 | 1.51 | 46.5 | 96,659 | 1.47 | 45.2 |
| 20 | 97,159 | 1.51 | 46.4 | 96,653 | 1.47 | 45.2 |
| 21 | 97,156 | 1.51 | 46.4 | 96,646 | 1.47 | 45.2 |
| 22 | 97,153 | 1.51 | 46.4 | 96,642 | 1.47 | 45.2 |
| 23 | 97,149 | 1.51 | 46.4 | 96,638 | 1.47 | 45.2 |
| 24 | 97,145 | 1.51 | 46.5 | 96,635 | 1.48 | 45.3 |
| 25 | 97,141 | 1.51 | 46.6 | 96,632 | 1.48 | 45.4 |
| 26 | 97,135 | 1.51 | 46.6 | 96,626 | 1.48 | 45.4 |
| 27 | 97,130 | 1.51 | 46.6 | 96,622 | 1.48 | 45.4 |
| 28 | 97,127 | 1.51 | 46.6 | 96,620 | 1.48 | 45.4 |
| 29 | 97,122 | 1.51 | 46.6 | 96,618 | 1.48 | 45.4 |
| 30 | 97,116 | 1.51 | 46.6 | 96,615 | 1.48 | 45.4 |
| Mean | 97,185 | 1.50 | 46.3 | 96,683 | 1.47 | 45.0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 44 | 0.01 | 0.3 | 48 | 0.01 | 0.4 |
| Min | 97,116 | 1.49 | 45.9 | 96,615 | 1.44 | 44.2 |
| Max | 97,267 | 1.51 | 46.6 | 96,767 | 1.48 | 45.4 |

**Table E2. Daily means of animal characteristics at Site NC2B for October, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 97,113 | 1.51 | 46.6 | 96,612 | 1.48 | 45.4 |
| 2 | 97,109 | 1.51 | 46.6 | 96,610 | 1.48 | 45.4 |
| 3 | 97,105 | 1.51 | 46.6 | 96,607 | 1.48 | 45.4 |
| 4 | 97,100 | 1.51 | 46.6 | 96,601 | 1.47 | 45.1 |
| 5 | 97,096 | 1.51 | 46.6 | 96,595 | 1.47 | 44.9 |
| 6 | 97,093 | 1.51 | 46.6 | 96,591 | 1.47 | 44.9 |
| 7 | 97,089 | 1.51 | 46.6 | 96,588 | 1.47 | 44.9 |
| 8 | 97,084 | 1.51 | 46.6 | 96,582 | 1.47 | 45.0 |
| 9 | 97,076 | 1.51 | 46.5 | 96,574 | 1.47 | 45.1 |
| 10 | 97,068 | 1.51 | 46.5 | 96,568 | 1.47 | 45.1 |
| 11 | 97,063 | 1.51 | 46.5 | 96,563 | 1.47 | 45.1 |
| 12 | 97,057 | 1.51 | 46.5 | 96,560 | 1.47 | 45.1 |
| 13 | 97,051 | 1.51 | 46.5 | 96,556 | 1.47 | 45.0 |
| 14 | 97,046 | 1.51 | 46.5 | 96,551 | 1.47 | 45.0 |
| 15 | 97,043 | 1.51 | 46.5 | 96,546 | 1.47 | 45.0 |
| 16 | 97,039 | 1.51 | 46.5 | 96,543 | 1.47 | 45.0 |
| 17 | 97,034 | 1.51 | 46.5 | 96,539 | 1.47 | 45.0 |
| 18 | 97,029 | 1.51 | 46.5 | 96,534 | 1.47 | 45.0 |
| 19 | 97,025 | 1.51 | 46.5 | 96,531 | 1.47 | 45.0 |
| 20 | 97,019 | 1.51 | 46.5 | 96,528 | 1.47 | 45.0 |
| 21 | 97,013 | 1.51 | 46.5 | 96,526 | 1.47 | 45.0 |
| 22 | 97,008 | 1.50 | 46.3 | 96,520 | 1.45 | 44.5 |
| 23 | 97,004 | 1.50 | 46.1 | 96,513 | 1.44 | 44.1 |
| 24 | 97,000 | 1.50 | 46.1 | 96,510 | 1.44 | 44.1 |
| 25 | 96,996 | 1.50 | 46.1 | 96,508 | 1.44 | 44.1 |
| 26 | 96,991 | 1.50 | 46.1 | 96,505 | 1.44 | 44.1 |
| 27 | 96,987 | 1.50 | 46.1 | 96,503 | 1.44 | 44.1 |
| 28 | 96,979 | 1.50 | 46.1 | 96,498 | 1.44 | 44.0 |
| 29 | 96,970 | 1.50 | 46.1 | 96,493 | 1.44 | 44.0 |
| 30 | 96,965 | 1.50 | 46.1 | 96,488 | 1.44 | 44.0 |
| 31 | 96,957 | 1.50 | 46.1 | 96,485 | 1.44 | 44.0 |
| Mean | 97,039 | 1.51 | 46.4 | 96,546 | 1.46 | 44.8 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 46 | 0.01 | 0.2 | 38 | 0.02 | 0.5 |
| Min | 96,957 | 1.50 | 46.1 | 96,485 | 1.44 | 44.0 |
| Max | 97,113 | 1.51 | 46.6 | 96,612 | 1.48 | 45.4 |

**Table E2. Daily means of animal characteristics at Site NC2B for November, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 96,948 | 1.50 | 46.1 | 96,481 | 1.44 | 44.0 |
| 2 | 96,942 | 1.50 | 46.1 | 96,478 | 1.44 | 44.0 |
| 3 | 96,936 | 1.50 | 46.1 | 96,476 | 1.44 | 44.0 |
| 4 | 96,930 | 1.50 | 46.1 | 96,472 | 1.44 | 44.0 |
| 5 | 96,925 | 1.50 | 46.1 | 96,466 | 1.44 | 44.0 |
| 6 | 96,920 | 1.50 | 46.1 | 96,461 | 1.44 | 44.0 |
| 7 | 96,916 | 1.50 | 46.1 | 96,458 | 1.44 | 44.0 |
| 8 | 96,907 | 1.50 | 46.0 | 96,452 | 1.44 | 44.1 |
| 9 | 96,897 | 1.50 | 46.0 | 96,446 | 1.44 | 44.2 |
| 10 | 96,891 | 1.50 | 46.0 | 94,939 | 1.44 | 43.5 |
| 11 | 96,885 | 1.50 | 46.0 | 94,929 | 1.44 | 43.5 |
| 12 | 96,878 | 1.50 | 46.0 | 96,425 | 1.44 | 44.2 |
| 13 | 96,872 | 1.50 | 46.0 | 96,422 | 1.44 | 44.2 |
| 14 | 96,867 | 1.50 | 46.0 | 96,417 | 1.44 | 44.2 |
| 15 | 96,861 | 1.50 | 46.0 | 96,412 | 1.44 | 44.1 |
| 16 | 96,856 | 1.50 | 46.0 | 96,408 | 1.44 | 44.1 |
| 17 | 96,851 | 1.50 | 46.0 | 96,403 | 1.44 | 44.1 |
| 18 | 95,847 | 1.50 | 45.5 | 96,396 | 1.44 | 44.1 |
| 19 | 95,842 | 1.48 | 44.9 | 96,392 | 1.44 | 44.1 |
| 20 | 96,837 | 1.46 | 44.8 | 96,388 | 1.44 | 44.1 |
| 21 | 96,829 | 1.46 | 44.8 | 96,381 | 1.44 | 44.1 |
| 22 | 96,823 | 1.46 | 44.8 | 96,376 | 1.44 | 43.9 |
| 23 | 96,818 | 1.46 | 44.8 | 96,372 | 1.43 | 43.7 |
| 24 | 96,813 | 1.46 | 44.7 | 96,368 | 1.43 | 43.7 |
| 25 | 96,807 | 1.46 | 44.7 | 96,363 | 1.43 | 43.7 |
| 26 | 96,802 | 1.46 | 44.7 | 96,357 | 1.43 | 43.7 |
| 27 | 96,797 | 1.46 | 44.7 | 96,353 | 1.43 | 43.7 |
| 28 | 96,789 | 1.46 | 44.7 | 96,349 | 1.43 | 43.7 |
| 29 | 96,777 | 1.46 | 44.7 | 96,344 | 1.43 | 43.7 |
| 30 | 96,764 | 1.46 | 44.7 | 96,341 | 1.43 | 43.7 |
| Mean | 96,794 | 1.48 | 45.5 | 96,311 | 1.44 | 43.9 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 259 | 0.02 | 0.6 | 370 | 0.01 | 0.2 |
| Min | 95,842 | 1.46 | 44.7 | 94,929 | 1.43 | 43.5 |
| Max | 96,948 | 1.50 | 46.1 | 96,481 | 1.44 | 44.2 |

**Table E2. Daily means of animal characteristics at Site NC2B for December, 2008**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 96,757 | 1.46 | 44.7 | 96,338 | 1.43 | 43.7 |
| 2 | 96,749 | 1.46 | 44.7 | 96,334 | 1.43 | 43.7 |
| 3 | 96,742 | 1.46 | 44.7 | 94,981 | 1.43 | 43.1 |
| 4 | 96,739 | 1.46 | 44.7 | 94,975 | 1.43 | 43.1 |
| 5 | 96,735 | 1.46 | 44.7 | 96,322 | 1.43 | 43.7 |
| 6 | 96,730 | 1.46 | 44.7 | 96,317 | 1.43 | 43.7 |
| 7 | 96,725 | 1.46 | 44.7 | 96,312 | 1.43 | 43.7 |
| 8 | 96,721 | 1.46 | 44.7 | 96,307 | 1.43 | 43.7 |
| 9 | 96,715 | 1.46 | 44.7 | 96,302 | 1.43 | 43.7 |
| 10 | 96,708 | 1.46 | 44.7 | 96,296 | 1.43 | 43.7 |
| 11 | 96,699 | 1.46 | 44.7 | 96,288 | 1.43 | 43.7 |
| 12 | 96,688 | 1.46 | 44.7 | 96,279 | 1.43 | 43.7 |
| 13 | 96,678 | 1.46 | 44.7 | 96,273 | 1.42 | 43.5 |
| 14 | 96,671 | 1.46 | 44.7 | 96,266 | 1.42 | 43.4 |
| 15 | 96,660 | 1.46 | 44.7 | 96,259 | 1.42 | 43.4 |
| 16 | 96,648 | 1.46 | 44.7 | 96,254 | 1.42 | 43.4 |
| 17 | 96,639 | 1.46 | 44.7 | 96,249 | 1.42 | 43.4 |
| 18 | 96,633 | 1.46 | 44.7 | 96,242 | 1.42 | 43.4 |
| 19 | 96,629 | 1.46 | 44.7 | 96,235 | 1.42 | 43.4 |
| 20 | 96,625 | 1.46 | 44.7 | 96,228 | 1.42 | 43.4 |
| 21 | 96,620 | 1.46 | 44.7 | 96,222 | 1.42 | 43.4 |
| 22 | 96,615 | 1.46 | 44.8 | 96,216 | 1.42 | 43.4 |
| 23 | 96,610 | 1.46 | 44.8 | 96,210 | 1.42 | 43.4 |
| 24 | 96,605 | 1.46 | 44.9 | 96,205 | 1.42 | 43.4 |
| 25 | 96,600 | 1.47 | 44.9 | 96,199 | 1.42 | 43.4 |
| 26 | 96,595 | 1.47 | 45.0 | 96,193 | 1.42 | 43.4 |
| 27 | 96,590 | 1.47 | 45.0 | 96,187 | 1.42 | 43.4 |
| 28 | 96,585 | 1.47 | 45.1 | 96,183 | 1.42 | 43.4 |
| 29 | 96,577 | 1.47 | 45.1 | 96,178 | 1.42 | 43.3 |
| 30 | 96,564 | 1.47 | 45.1 | 96,171 | 1.42 | 43.3 |
| 31 | 96,549 | 1.47 | 45.0 | 96,167 | 1.42 | 43.3 |
| Mean | 96,658 | 1.46 | 44.8 | 96,167 | 1.42 | 43.5 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 61 | 0.01 | 0.1 | 316 | 0.00 | 0.2 |
| Min | 96,549 | 1.46 | 44.7 | 94,975 | 1.42 | 43.1 |
| Max | 96,757 | 1.47 | 45.1 | 96,338 | 1.43 | 43.7 |

**Table E2. Daily means of animal characteristics at Site NC2B for January, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 96,537 | 1.47 | 45.0 | 96,160 | 1.42 | 43.3 |
| 2 | 96,525 | 1.47 | 45.0 | 96,152 | 1.42 | 43.3 |
| 3 | 96,512 | 1.47 | 45.0 | 96,147 | 1.42 | 43.3 |
| 4 | 96,503 | 1.47 | 45.0 | 96,143 | 1.42 | 43.3 |
| 5 | 96,493 | 1.47 | 45.0 | 96,138 | 1.42 | 43.3 |
| 6 | 96,484 | 1.47 | 45.0 | 96,132 | 1.42 | 43.3 |
| 7 | 96,474 | 1.47 | 45.0 | 96,126 | 1.42 | 43.3 |
| 8 | 96,465 | 1.47 | 45.0 | 96,118 | 1.42 | 43.3 |
| 9 | 96,455 | 1.47 | 45.0 | 96,111 | 1.43 | 43.6 |
| 10 | 96,446 | 1.47 | 45.0 | 96,104 | 1.44 | 43.9 |
| 11 | 96,437 | 1.47 | 45.0 | 96,096 | 1.44 | 43.9 |
| 12 | 96,427 | 1.47 | 45.0 | 96,088 | 1.44 | 43.9 |
| 13 | 96,418 | 1.47 | 45.0 | 96,080 | 1.44 | 43.9 |
| 14 | 96,408 | 1.47 | 45.0 | 96,073 | 1.44 | 43.9 |
| 15 | 96,399 | 1.47 | 45.0 | 96,064 | 1.44 | 43.9 |
| 16 | 96,389 | 1.47 | 45.0 | 96,057 | 1.44 | 43.8 |
| 17 | 96,380 | 1.47 | 45.0 | 96,052 | 1.44 | 43.8 |
| 18 | 96,371 | 1.47 | 45.0 | 96,048 | 1.44 | 43.8 |
| 19 | 96,358 | 1.47 | 45.0 | 96,044 | 1.44 | 43.8 |
| 20 | 96,345 | 1.47 | 44.9 | 96,040 | 1.44 | 43.8 |
| 21 | 96,335 | 1.47 | 44.9 | 96,035 | 1.43 | 43.7 |
| 22 | 96,321 | 1.47 | 44.9 | 96,027 | 1.43 | 43.6 |
| 23 | 96,307 | 1.47 | 44.9 | 96,020 | 1.43 | 43.6 |
| 24 | 96,295 | 1.47 | 44.9 | 96,016 | 1.43 | 43.6 |
| 25 | 96,283 | 1.47 | 44.9 | 96,008 | 1.43 | 43.5 |
| 26 | 96,276 | 1.47 | 44.9 | 95,993 | 1.43 | 43.5 |
| 27 | 96,265 | 1.47 | 44.9 | 95,981 | 1.43 | 43.5 |
| 28 | 96,254 | 1.47 | 44.9 | 96,471 | 1.43 | 43.8 |
| 29 | 96,247 | 1.47 | 44.9 | 96,459 | 1.43 | 43.8 |
| 30 | 96,237 | 1.47 | 44.9 | 95,950 | 1.43 | 43.5 |
| 31 | 96,223 | 1.47 | 44.9 | 95,940 | 1.43 | 43.5 |
| Mean | 96,383 | 1.47 | 45.0 | 96,092 | 1.43 | 43.6 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 93 | 0.00 | 0.0 | 114 | 0.01 | 0.2 |
| Min | 96,223 | 1.47 | 44.9 | 95,940 | 1.42 | 43.3 |
| Max | 96,537 | 1.47 | 45.0 | 96,471 | 1.44 | 43.9 |

**Table E2. Daily means of animal characteristics at Site NC2B for February, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 96,210 | 1.47 | 44.9 | 95,931 | 1.43 | 43.5 |
| 2 | 96,194 | 1.47 | 44.9 | 95,926 | 1.43 | 43.5 |
| 3 | 96,175 | 1.47 | 44.9 | 95,921 | 1.43 | 43.5 |
| 4 | 96,160 | 1.47 | 44.9 | 95,913 | 1.43 | 43.5 |
| 5 | 96,146 | 1.47 | 44.9 | 95,899 | 1.43 | 43.5 |
| 6 | 96,126 | 1.47 | 44.8 | 95,886 | 1.43 | 43.5 |
| 7 | 96,107 | 1.47 | 44.8 | 95,878 | 1.43 | 43.5 |
| 8 | 96,091 | 1.47 | 44.8 | 95,871 | 1.43 | 43.5 |
| 9 | 96,079 | 1.47 | 44.8 | 95,858 | 1.43 | 43.5 |
| 10 | 96,070 | 1.47 | 44.8 | 95,842 | 1.43 | 43.5 |
| 11 | 96,058 | 1.47 | 44.8 | 95,831 | 1.43 | 43.5 |
| 12 | 96,041 | 1.47 | 44.8 | 95,822 | 1.43 | 43.5 |
| 13 | 96,022 | 1.47 | 44.8 | 95,810 | 1.43 | 43.5 |
| 14 | 96,005 | 1.47 | 44.8 | 95,798 | 1.43 | 43.5 |
| 15 | 95,993 | 1.47 | 44.8 | 95,790 | 1.43 | 43.4 |
| 16 | 95,982 | 1.47 | 44.8 | 95,784 | 1.43 | 43.4 |
| 17 | 95,971 | 1.47 | 44.8 | 95,773 | 1.43 | 43.4 |
| 18 | 95,958 | 1.47 | 44.8 | 95,757 | 1.43 | 43.4 |
| 19 | 95,947 | 1.45 | 44.3 | 95,743 | 1.42 | 43.2 |
| 20 | 95,936 | 1.44 | 43.8 | 95,734 | 1.41 | 42.9 |
| 21 | 95,923 | 1.44 | 43.8 | 95,723 | 1.41 | 42.9 |
| 22 | 95,906 | 1.44 | 43.8 | 95,714 | 1.41 | 42.9 |
| 23 | 95,890 | 1.44 | 43.8 | 95,706 | 1.41 | 42.9 |
| 24 | 95,881 | 1.44 | 43.8 | 95,698 | 1.41 | 42.9 |
| 25 | 95,874 | 1.44 | 43.8 | 95,693 | 1.41 | 42.9 |
| 26 | 95,865 | 1.44 | 43.8 | 95,681 | 1.41 | 42.8 |
| 27 | 95,853 | 1.44 | 43.8 | 95,668 | 1.41 | 42.8 |
| 28 | 95,840 | 1.44 | 43.7 | 95,658 | 1.41 | 42.8 |
| Mean | 96,010 | 1.46 | 44.5 | 95,797 | 1.42 | 43.3 |
| n | 28 | 28.00 | 28.0 | 28 | 28.00 | 28.0 |
| SD | 110 | 0 | 0 | 85 | 0 | 0 |
| Min | 95,840 | 1.44 | 43.7 | 95,658 | 1.41 | 42.8 |
| Max | 96,210 | 1.47 | 44.9 | 95,931 | 1.43 | 43.5 |

**Table E2. Daily means of animal characteristics at Site NC2B for March, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,823 | 1.44 | 43.7 | 95,646 | 1.41 | 42.8 |
| 2 | 95,807 | 1.44 | 43.7 | 95,634 | 1.41 | 42.8 |
| 3 | 95,795 | 1.44 | 43.7 | 95,625 | 1.41 | 42.8 |
| 4 | 95,781 | 1.44 | 43.7 | 95,617 | 1.41 | 42.8 |
| 5 | 95,766 | 1.44 | 43.7 | 95,606 | 1.41 | 42.8 |
| 6 | 95,747 | 1.44 | 43.7 | 95,596 | 1.41 | 42.8 |
| 7 | 95,736 | 1.44 | 43.7 | 95,592 | 1.41 | 42.8 |
| 8 | 95,722 | 1.44 | 43.7 | 95,584 | 1.41 | 42.8 |
| 9 | 95,707 | 1.44 | 43.7 | 95,576 | 1.41 | 42.8 |
| 10 | 95,691 | 1.44 | 43.7 | 95,570 | 1.41 | 42.8 |
| 11 | 95,668 | 1.44 | 43.7 | 95,557 | 1.41 | 42.8 |
| 12 | 95,655 | 1.44 | 43.7 | 95,545 | 1.41 | 42.8 |
| 13 | 95,644 | 1.44 | 43.7 | 95,536 | 1.41 | 42.8 |
| 14 | 95,629 | 1.44 | 43.7 | 95,528 | 1.41 | 42.8 |
| 15 | 95,613 | 1.44 | 43.6 | 95,518 | 1.41 | 42.8 |
| 16 | 95,601 | 1.44 | 43.6 | 95,512 | 1.41 | 42.8 |
| 17 | 95,592 | 1.44 | 43.6 | 95,505 | 1.41 | 42.8 |
| 18 | 95,578 | 1.44 | 43.6 | 95,499 | 1.41 | 42.8 |
| 19 | 95,566 | 1.42 | 43.2 | 95,493 | 1.41 | 42.8 |
| 20 | 95,557 | 1.41 | 42.8 | 95,480 | 1.42 | 42.9 |
| 21 | 95,540 | 1.41 | 42.8 | 95,465 | 1.42 | 42.9 |
| 22 | 95,522 | 1.41 | 42.8 | 95,453 | 1.42 | 42.9 |
| 23 | 95,509 | 1.41 | 42.8 | 95,441 | 1.42 | 42.9 |
| 24 | 95,493 | 1.41 | 42.8 | 95,428 | 1.42 | 42.9 |
| 25 | 95,476 | 1.41 | 42.8 | 95,418 | 1.42 | 42.9 |
| 26 | 95,461 | 1.41 | 42.8 | 95,410 | 1.42 | 42.9 |
| 27 | 95,446 | 1.41 | 42.7 | 95,399 | 1.42 | 42.9 |
| 28 | 95,439 | 1.41 | 42.7 | 95,392 | 1.42 | 42.9 |
| 29 | 95,432 | 1.41 | 42.7 | 95,386 | 1.42 | 42.9 |
| 30 | 95,418 | 1.41 | 42.7 | 95,375 | 1.42 | 42.8 |
| 31 | 95,402 | 1.41 | 42.7 | 95,362 | 1.42 | 42.8 |
| Mean | 95,607 | 1.43 | 43.3 | 95,508 | 1.41 | 42.8 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 126 | 0.01 | 0.5 | 84 | 0.00 | 0.0 |
| Min | 95,402 | 1.41 | 42.7 | 95,362 | 1.41 | 42.8 |
| Max | 95,823 | 1.44 | 43.7 | 95,646 | 1.42 | 42.9 |

**Table E2. Daily means of animal characteristics at Site NC2B for April, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 95,385 | 1.41 | 42.7 | 95,349 | 1.42 | 42.8 |
| 2 | 95,368 | 1.41 | 42.7 | 95,335 | 1.42 | 42.8 |
| 3 | 95,339 | 1.41 | 42.7 | 95,307 | 1.42 | 42.8 |
| 4 | 95,307 | 1.41 | 42.7 | 95,282 | 1.42 | 42.8 |
| 5 | 95,273 | 1.41 | 42.7 | 95,272 | 1.42 | 42.8 |
| 6 | 95,233 | 1.41 | 42.6 | 95,263 | 1.42 | 42.8 |
| 7 | 95,196 | 1.41 | 42.6 | 95,253 | 1.42 | 42.8 |
| 8 | 95,166 | 1.33 | 40.2 | 95,242 | 1.42 | 42.8 |
| 9 | 95,155 | 1.25 | 37.7 | 95,235 | 1.42 | 42.8 |
| 10 | 95,137 | 1.25 | 37.7 | 95,226 | 1.42 | 42.8 |
| 11 | 95,101 | 1.25 | 37.7 | 95,207 | 1.42 | 42.8 |
| 12 | 95,074 | 1.25 | 37.6 | 95,192 | 1.42 | 42.8 |
| 13 | 95,058 | 1.25 | 37.6 | 95,184 | 1.42 | 42.8 |
| 14 | 95,030 | 1.25 | 37.6 | 95,170 | 1.42 | 42.8 |
| 15 | 94,990 | 1.25 | 37.6 | 95,152 | 1.42 | 42.7 |
| 16 | 94,957 | 1.24 | 37.5 | 95,141 | 1.42 | 42.7 |
| 17 | 94,920 | 1.24 | 37.3 | 95,126 | 1.42 | 42.7 |
| 18 | 94,860 | 1.22 | 36.8 | 95,102 | 1.42 | 42.7 |
| 19 | 94,813 | 1.21 | 36.3 | 95,085 | 1.42 | 42.7 |
| 20 | 94,785 | 1.21 | 36.3 | 95,069 | 1.42 | 42.7 |
| 21 | 94,765 | 1.21 | 36.3 | 95,057 | 1.42 | 42.7 |
| 22 | 94,758 | 1.28 | 38.4 | 95,051 | 1.42 | 42.9 |
| 23 | 94,747 | 1.35 | 40.5 | 95,034 | 1.43 | 43.1 |
| 24 | 94,740 | 1.35 | 40.5 | 95,006 | 1.43 | 43.1 |
| 25 | 94,735 | 1.35 | 40.5 | 94,980 | 1.43 | 43.1 |
| 26 | 94,732 | 1.35 | 40.5 | 94,963 | 1.43 | 43.1 |
| 27 | 94,728 | 1.35 | 40.5 | 94,947 | 1.43 | 43.1 |
| 28 | 94,721 | 1.35 | 40.5 | 94,932 | 1.43 | 43.1 |
| 29 | 94,717 | 1.35 | 40.5 | 94,926 | 1.43 | 43.1 |
| 30 | 94,716 | 1.42 | 42.7 | 94,913 | 1.43 | 43.1 |
| Mean | 94,983 | 1.31 | 39.6 | 95,133 | 1.42 | 42.9 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 227 | 0.08 | 2.3 | 129 | 0.01 | 0.1 |
| Min | 94,716 | 1.21 | 36.3 | 94,913 | 1.42 | 42.7 |
| Max | 95,385 | 1.42 | 42.7 | 95,349 | 1.43 | 43.1 |

**Table E2. Daily means of animal characteristics at Site NC2B for May, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 94,713 | 1.49 | 44.9 | 94,880 | 1.43 | 43.0 |
| 2 | 94,707 | 1.49 | 44.9 | 94,852 | 1.43 | 43.0 |
| 3 | 94,701 | 1.49 | 44.9 | 94,837 | 1.43 | 43.0 |
| 4 | 94,695 | 1.49 | 44.9 | 94,825 | 1.43 | 43.0 |
| 5 | 94,687 | 1.49 | 44.9 | 94,819 | 1.43 | 43.0 |
| 6 | 94,680 | 1.49 | 44.9 | 94,804 | 1.43 | 43.0 |
| 7 | 94,670 | 1.49 | 44.9 | 94,781 | 1.43 | 43.0 |
| 8 | 94,661 | 1.49 | 44.8 | 94,765 | 1.43 | 43.0 |
| 9 | 94,652 | 1.49 | 44.8 | 94,751 | 1.43 | 43.0 |
| 10 | 94,639 | 1.49 | 44.8 | 94,730 | 1.43 | 43.0 |
| 11 | 94,630 | 1.49 | 44.8 | 94,712 | 1.43 | 43.0 |
| 12 | 94,620 | 1.49 | 44.8 | 94,700 | 1.43 | 43.0 |
| 13 | 94,610 | 1.49 | 44.8 | 94,683 | 1.43 | 42.9 |
| 14 | 94,604 | 1.49 | 44.8 | 94,663 | 1.43 | 42.9 |
| 15 | 94,595 | 1.49 | 44.8 | 94,646 | 1.43 | 42.9 |
| 16 | 94,584 | 1.49 | 44.8 | 94,628 | 1.43 | 42.9 |
| 17 | 94,577 | 1.49 | 44.8 | 94,608 | 1.43 | 42.9 |
| 18 | 94,571 | 1.49 | 44.8 | 94,591 | 1.43 | 42.9 |
| 19 | 94,562 | 1.49 | 44.8 | 94,576 | 1.43 | 42.9 |
| 20 | 94,554 | 1.49 | 44.8 | 94,554 | 1.43 | 42.9 |
| 21 | 94,547 | 1.49 | 44.8 | 94,529 | 1.43 | 42.9 |
| 22 | 94,540 | 1.49 | 44.8 | 94,507 | 1.43 | 42.9 |
| 23 | 94,531 | 1.49 | 44.8 | 94,484 | 1.43 | 42.9 |
| 24 | 94,522 | 1.49 | 44.8 | 94,462 | 1.43 | 42.8 |
| 25 | 94,514 | 1.49 | 44.8 | 94,441 | 1.43 | 42.8 |
| 26 | 94,504 | 1.49 | 44.8 | 94,424 | 1.43 | 42.8 |
| 27 | 94,492 | 1.49 | 44.8 | 94,403 | 1.43 | 42.8 |
| 28 | 94,483 | 1.49 | 44.8 | 94,373 | 1.43 | 42.8 |
| 29 | 94,475 | 1.49 | 44.8 | 94,344 | 1.43 | 42.8 |
| 30 | 94,468 | 1.49 | 44.8 | 94,322 | 1.43 | 42.8 |
| 31 | 94,461 | 1.49 | 44.8 | 94,308 | 1.43 | 42.8 |
| Mean | 94,588 | 1.49 | 44.8 | 94,613 | 1.43 | 42.9 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 77 | 0.00 | 0.0 | 170 | 0.00 | 0.1 |
| Min | 94,461 | 1.49 | 44.8 | 94,308 | 1.43 | 42.8 |
| Max | 94,713 | 1.49 | 44.9 | 94,880 | 1.43 | 43.0 |

**Table E2. Daily means of animal characteristics at Site NC2B for June, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 94,454 | 1.49 | 44.7 | 94,292 | 1.43 | 42.8 |
| 2 | 94,448 | 1.49 | 44.7 | 94,274 | 1.43 | 42.8 |
| 3 | 94,442 | 1.49 | 44.7 | 94,258 | 1.43 | 42.8 |
| 4 | 94,434 | 1.49 | 44.7 | 94,243 | 1.43 | 42.7 |
| 5 | 94,425 | 1.49 | 44.7 | 94,227 | 1.43 | 42.7 |
| 6 | 94,417 | 1.49 | 44.7 | 94,205 | 1.43 | 42.7 |
| 7 | 94,409 | 1.49 | 44.7 | 94,185 | 1.43 | 42.7 |
| 8 | 94,399 | 1.49 | 44.7 | 94,166 | 1.43 | 42.7 |
| 9 | 94,387 | 1.49 | 44.7 | 94,145 | 1.43 | 42.7 |
| 10 | 94,376 | 1.49 | 44.7 | 94,126 | 1.43 | 42.7 |
| 11 | 94,366 | 1.49 | 44.7 | 94,108 | 1.43 | 42.7 |
| 12 | 94,358 | 1.49 | 44.7 | 94,087 | 1.43 | 42.7 |
| 13 | 94,353 | 1.49 | 44.7 | 94,063 | 1.43 | 42.7 |
| 14 | 94,342 | 1.49 | 44.7 | 94,043 | 1.43 | 42.7 |
| 15 | 94,333 | 1.49 | 44.7 | 94,023 | 1.43 | 42.6 |
| 16 | 94,326 | 1.49 | 44.7 | 94,003 | 1.43 | 42.6 |
| 17 | 94,318 | 1.48 | 44.3 | 93,984 | 1.46 | 43.6 |
| 18 | 94,310 | 1.47 | 44.0 | 93,968 | 1.50 | 44.7 |
| 19 | 94,302 | 1.47 | 44.0 | 93,949 | 1.50 | 44.6 |
| 20 | 94,294 | 1.47 | 44.0 | 93,926 | 1.50 | 44.6 |
| 21 | 94,285 | 1.47 | 44.0 | 93,910 | 1.50 | 44.6 |
| 22 | 94,277 | 1.47 | 44.0 | 93,899 | 1.50 | 44.6 |
| 23 | 94,269 | 1.47 | 44.0 | 93,884 | 1.50 | 44.6 |
| 24 | 94,258 | 1.47 | 44.0 | 93,866 | 1.50 | 44.6 |
| 25 | 94,250 | 1.47 | 44.0 | 93,848 | 1.50 | 44.6 |
| 26 | 94,243 | 1.47 | 44.0 | 93,834 | 1.50 | 44.6 |
| 27 | 94,237 | 1.49 | 44.6 | 93,822 | 1.50 | 44.6 |
| 28 | 94,231 | 1.51 | 45.3 | 93,804 | 1.50 | 44.6 |
| 29 | 94,226 | 1.51 | 45.3 | 93,785 | 1.50 | 44.6 |
| 30 | 94,219 | 1.51 | 45.3 | 93,767 | 1.50 | 44.6 |
| Mean | 94,333 | 1.49 | 44.5 | 94,023 | 1.46 | 43.6 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 73 | 0.01 | 0.4 | 160 | 0.03 | 0.9 |
| Min | 94,219 | 1.47 | 44.0 | 93,767 | 1.43 | 42.6 |
| Max | 94,454 | 1.51 | 45.3 | 94,292 | 1.50 | 44.7 |

**Table E2. Daily means of animal characteristics at Site NC2B for July, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 94,211 | 1.51 | 45.3 | 93,746 | 1.50 | 44.5 |
| 2 | 94,204 | 1.51 | 45.3 | 93,726 | 1.50 | 44.5 |
| 3 | 94,196 | 1.51 | 45.3 | 93,704 | 1.50 | 44.5 |
| 4 | 94,189 | 1.51 | 45.3 | 93,678 | 1.50 | 44.5 |
| 5 | 94,180 | 1.51 | 45.3 | 93,659 | 1.50 | 44.5 |
| 6 | 94,176 | 1.51 | 45.3 | 93,652 | 1.50 | 44.5 |
| 7 | 94,172 | 1.51 | 45.3 | 93,637 | 1.50 | 44.5 |
| 8 | 94,162 | 1.51 | 45.3 | 93,602 | 1.50 | 44.5 |
| 9 | 94,149 | 1.51 | 45.3 | 93,572 | 1.50 | 44.5 |
| 10 | 94,138 | 1.51 | 45.3 | 93,553 | 1.50 | 44.5 |
| 11 | 94,131 | 1.51 | 45.3 | 93,534 | 1.50 | 44.4 |
| 12 | 94,126 | 1.51 | 45.3 | 93,516 | 1.50 | 44.4 |
| 13 | 94,121 | 1.51 | 45.3 | 93,497 | 1.50 | 44.4 |
| 14 | 94,113 | 1.51 | 45.3 | 93,477 | 1.50 | 44.4 |
| 15 | 94,104 | 1.51 | 45.3 | 93,459 | 1.50 | 44.4 |
| 16 | 94,098 | 1.51 | 45.3 | 93,439 | 1.50 | 44.4 |
| 17 | 94,091 | 1.51 | 45.3 | 93,417 | 1.50 | 44.4 |
| 18 | 94,080 | 1.51 | 45.2 | 93,395 | 1.50 | 44.4 |
| 19 | 94,073 | 1.51 | 45.2 | 93,378 | 1.50 | 44.4 |
| 20 | 94,070 | 1.51 | 45.2 | 93,365 | 1.50 | 44.4 |
| 21 | 94,060 | 1.51 | 45.2 | 93,347 | 1.50 | 44.4 |
| 22 | 94,047 | 1.51 | 45.2 | 93,330 | 1.50 | 44.3 |
| 23 | 94,036 | 1.51 | 45.2 | 93,311 | 1.50 | 44.3 |
| 24 | 94,028 | 1.51 | 45.2 | 93,287 | 1.50 | 44.3 |
| 25 | 94,023 | 1.54 | 45.9 | 93,266 | 1.49 | 44.3 |
| 26 | 94,019 | 1.56 | 46.6 | 93,247 | 1.49 | 44.2 |
| 27 | 94,013 | 1.56 | 46.6 | 93,233 | 1.49 | 44.2 |
| 28 | 94,005 | 1.56 | 46.6 | 93,220 | 1.49 | 44.2 |
| 29 | 93,998 | 1.56 | 46.6 | 93,204 | 1.49 | 44.2 |
| 30 | 93,990 | 1.56 | 46.6 | 93,187 | 1.49 | 44.1 |
| 31 | 93,982 | 1.56 | 46.6 | 93,165 | 1.49 | 44.1 |
| Mean | 94,096 | 1.52 | 45.5 | 93,445 | 1.50 | 44.4 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 69 | 0.02 | 0.5 | 174 | 0.00 | 0.1 |
| Min | 93,982 | 1.51 | 45.2 | 93,165 | 1.49 | 44.1 |
| Max | 94,211 | 1.56 | 46.6 | 93,746 | 1.50 | 44.5 |

**Table E2. Daily means of animal characteristics at Site NC2B for August, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 93,974 | 1.56 | 46.6 | 93,141 | 1.49 | 44.1 |
| 2 | 93,966 | 1.56 | 46.5 | 93,122 | 1.49 | 44.1 |
| 3 | 93,959 | 1.56 | 46.5 | 93,106 | 1.49 | 44.1 |
| 4 | 93,952 | 1.56 | 46.5 | 93,090 | 1.49 | 44.1 |
| 5 | 93,945 | 1.56 | 46.5 | 93,075 | 1.49 | 44.1 |
| 6 | 93,939 | 1.56 | 46.5 | 93,056 | 1.49 | 44.1 |
| 7 | 93,933 | 1.56 | 46.5 | 93,031 | 1.49 | 44.1 |
| 8 | 93,924 | 1.56 | 46.5 | 93,001 | 1.49 | 44.1 |
| 9 | 93,912 | 1.56 | 46.5 | 92,976 | 1.49 | 44.0 |
| 10 | 93,896 | 1.56 | 46.5 | 92,954 | 1.49 | 44.0 |
| 11 | 93,881 | 1.56 | 46.5 | 92,929 | 1.49 | 44.0 |
| 12 | 93,870 | 1.56 | 46.5 | 92,902 | 1.49 | 44.0 |
| 13 | 93,859 | 1.56 | 46.5 | 92,877 | 1.49 | 44.0 |
| 14 | 93,854 | 1.56 | 46.5 | 92,856 | 1.49 | 44.0 |
| 15 | 93,848 | 1.56 | 46.5 | 92,836 | 1.49 | 44.0 |
| 16 | 93,839 | 1.56 | 46.5 | 92,815 | 1.49 | 44.0 |
| 17 | 93,830 | 1.56 | 46.5 | 92,795 | 1.49 | 44.0 |
| 18 | 93,823 | 1.56 | 46.5 | 92,777 | 1.49 | 44.0 |
| 19 | 93,816 | 1.56 | 46.5 | 92,762 | 1.49 | 43.9 |
| 20 | 93,808 | 1.56 | 46.5 | 92,745 | 1.49 | 43.9 |
| 21 | 93,801 | 1.56 | 46.5 | 92,730 | 1.49 | 43.9 |
| 22 | 93,796 | 1.56 | 46.4 | 92,714 | 1.51 | 44.5 |
| 23 | 93,790 | 1.56 | 46.3 | 92,693 | 1.53 | 45.1 |
| 24 | 93,783 | 1.56 | 46.3 | 92,674 | 1.53 | 45.1 |
| 25 | 93,777 | 1.56 | 46.3 | 92,660 | 1.53 | 45.1 |
| 26 | 93,771 | 1.56 | 46.3 | 92,643 | 1.53 | 45.1 |
| 27 | 93,762 | 1.56 | 46.3 | 92,623 | 1.53 | 45.1 |
| 28 | 93,754 | 1.56 | 46.3 | 92,603 | 1.53 | 45.1 |
| 29 | 93,746 | 1.56 | 46.3 | 92,586 | 1.53 | 45.1 |
| 30 | 93,734 | 1.56 | 46.3 | 92,569 | 1.53 | 45.1 |
| 31 | 93,724 | 1.56 | 46.3 | 92,545 | 1.53 | 45.0 |
| Mean | 93,847 | 1.56 | 46.4 | 92,835 | 1.50 | 44.3 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 75 | 0.00 | 0.1 | 181 | 0.02 | 0.5 |
| Min | 93,724 | 1.56 | 46.3 | 92,545 | 1.49 | 43.9 |
| Max | 93,974 | 1.56 | 46.6 | 93,141 | 1.53 | 45.1 |

**Table E2. Daily means of animal characteristics at Site NC2B for September, 2009**

| Day | House 3 | | | House 4 | | |
|---|---|---|---|---|---|---|
| | Inv., birds | Mass, kg | kg $m^{-2}$ | Inv., birds | Mass, kg | kg $m^{-2}$ |
| 1 | 93,717 | 1.56 | 46.3 | 92,517 | 1.53 | 45.0 |
| 2 | 93,711 | 1.56 | 46.3 | 92,485 | 1.53 | 45.0 |
| 3 | 93,700 | 1.56 | 46.3 | 92,459 | 1.53 | 45.0 |
| 4 | 93,690 | 1.56 | 46.3 | 92,438 | 1.53 | 45.0 |
| 5 | 93,685 | 1.56 | 46.3 | 92,413 | 1.53 | 45.0 |
| 6 | 93,678 | 1.56 | 46.3 | 92,387 | 1.53 | 45.0 |
| 7 | 93,669 | 1.56 | 46.3 | 92,368 | 1.53 | 45.0 |
| 8 | 93,661 | 1.56 | 46.3 | 92,349 | 1.53 | 44.9 |
| 9 | 93,654 | 1.56 | 46.3 | 92,324 | 1.53 | 44.9 |
| 10 | 93,646 | 1.56 | 46.3 | 92,301 | 1.53 | 44.9 |
| 11 | 93,637 | 1.56 | 46.2 | 92,286 | 1.53 | 44.9 |
| 12 | 93,628 | 1.56 | 46.2 | 92,272 | 1.53 | 44.9 |
| 13 | 93,620 | 1.56 | 46.2 | 92,250 | 1.53 | 44.9 |
| 14 | 93,616 | 1.56 | 46.2 | 92,231 | 1.53 | 44.9 |
| 15 | 93,610 | 1.56 | 46.2 | 92,212 | 1.53 | 44.9 |
| 16 | 93,601 | 1.56 | 46.2 | 92,189 | 1.53 | 44.9 |
| 17 | 93,592 | 1.55 | 46.1 | 92,167 | 1.53 | 44.8 |
| 18 | 93,585 | 1.55 | 46.0 | 92,146 | 1.53 | 44.7 |
| 19 | 93,573 | 1.55 | 46.0 | 92,126 | 1.53 | 44.7 |
| 20 | 93,562 | 1.55 | 45.9 | 92,109 | 1.53 | 44.7 |
| 21 | 93,558 | 1.55 | 45.9 | 92,094 | 1.53 | 44.7 |
| 22 | 93,553 | 1.55 | 45.9 | 92,077 | 1.53 | 44.7 |
| 23 | 93,543 | 1.55 | 45.9 | 92,052 | 1.53 | 44.7 |
| 24 | 93,530 | 1.55 | | 92,028 | 1.53 | |
| 25 | 93,519 | 1.55 | | 92,009 | 1.53 | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| Mean | 93,621 | 1.55 | 46.2 | 92,251 | 1.53 | 44.9 |
| n | 25 | 25 | 23 | 25 | 25 | 23 |
| SD | 58 | 0.00 | 0.1 | 148 | 0.00 | 0.1 |
| Min | 93,519 | 1.55 | 45.9 | 92,009 | 1.53 | 44.7 |
| Max | 93,717 | 1.56 | 46.3 | 92,517 | 1.53 | 45.0 |

## Table E3. Indoor thermal environment and airflow.

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for September, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | 26.1 (2.8) | 57.4 (9.2) | | | 25.9 (3.2) | 57.7 (9.3) | -15.0 (4.0) | 141.0 (90.1) |
| 26 | 26.6 (3.2) | 61.3 (9.2) | | | 26.5 (3.5) | 61.4 (9.1) | -17.6 (6.0) | 160.0 (80.4) |
| 27 | 26.6 (3.1) | 66.5 (10.7) | | | 26.8 (3.3) | 66.3 (10.6) | -20.7 (7.3) | 188.0 (62.2) |
| 28 | 26.2 (2.4) | 57.0 (17.6) | | | 26.2 (2.5) | 56.7 (17.1) | -16.4 (6.0) | 185.0 (72.8) |
| 29 | 24.5 (1.2) | 47.1 (8.2) | | | 24.4 (1.3) | 47.8 (8.2) | -18.5 (5.2) | 116.0 (97.3) |
| 30 | 24.9 (1.6) | 50.4 (8.8) | | | 24.6 (1.8) | 51.2 (8.9) | -17.9 (5.7) | 120.0 (99.0) |
| Mean | 25.8 | 56.6 | | | 25.7 | 56.8 | -17.7 | 151.0 |
| n | 6 | 6 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | 0.8 | 6.5 | | | 0.9 | 6.1 | 1.8 | 28.4 |
| Min | 24.5 | 47.1 | | | 24.4 | 47.8 | -20.7 | 116.0 |
| Max | 26.6 | 66.5 | | | 26.8 | 66.3 | -15.0 | 188.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for October, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 25.1 (1.7) | 55.8 (7.4) | | | 25.0 (1.9) | 56.6 (7.6) | -17.4 (5.6) | 134.0 (96.6) |
| 2 | 25.5 (2.2) | 65.4 (6.5) | | | 25.3 (2.5) | 65.8 (6.5) | -18.0 (4.3) | 160.0 (79.8) |
| 3 | 26.1 (2.6) | 71.1 (6.7) | | | 26.2 (2.7) | 70.8 (6.4) | -16.5 (4.2) | 182.0 (72.2) |
| 4 | 27.0 (2.5) | 70.3 (10.6) | -14.7 (5.6) | 205.0 (51.7) | 27.1 (2.6) | 70.6 (10.7) | -16.0 (5.8) | 215.0 (40.6) |
| 5 | 25.4 (1.0) | 81.8 (2.5) | -17.3 (6.9) | 197.0 (56.8) | 25.6 (0.9) | 81.5 (2.4) | -14.9 (5.9) | 198.0 (44.5) |
| 6 | 26.0 (1.7) | 78.5 (5.1) | -15.2 (7.1) | 198.0 (51.7) | 26.3 (1.6) | 77.8 (5.1) | -16.8 (5.3) | 198.0 (48.2) |
| 7 | 26.5 (3.2) | 70.5 (10.0) | -17.1 (5.5) | 170.0 (70.8) | 26.7 (3.3) | 70.2 (10.0) | -21.2 (7.4) | 174.0 (63.6) |
| 8 | 27.3 (3.7) | 67.0 (11.7) | -19.3 (6.8) | 189.0 (62.8) | 27.8 (3.5) | 65.7 (10.9) | -18.7 (6.6) | 188.0 (55.9) |
| 9 | 28.1 (3.7) | 61.0 (12.4) | -17.8 (4.8) | 201.0 (59.8) | 28.3 (3.5) | 60.2 (11.4) | -17.3 (5.2) | 201.0 (53.2) |
| 10 | 25.8 (2.0) | 64.6 (10.7) | -19.6 (6.8) | 181.0 (59.9) | 26.0 (1.9) | 64.5 (10.5) | -16.7 (7.6) | 188.0 (56.9) |
| 11 | 23.6 (0.6) | 50.2 (10.7) | -16.6 (6.8) | 71.8 (49.3) | 23.4 (0.7) | 50.4 (10.5) | -16.8 (7.7) | 75.3 (47.7) |
| 12 | 23.7 (0.7) | 50.4 (8.9) | -15.7 (4.6) | 65.3 (59.7) | 23.3 (0.9) | 50.9 (8.4) | -14.2 (6.5) | 67.5 (62.4) |
| 13 | 23.7 (0.7) | 51.3 (9.8) | -15.4 (4.9) | 57.6 (53.2) | 23.3 (0.9) | 51.7 (9.7) | -14.7 (6.3) | 62.9 (56.0) |
| 14 | 23.8 (0.9) | 52.9 (9.4) | -15.4 (4.4) | 71.9 (68.3) | 23.2 (1.1) | 53.4 (9.0) | -13.7 (4.7) | 82.7 (81.9) |
| 15 | 24.1 (1.0) | 55.0 (8.0) | -16.5 (3.8) | 95.5 (93.6) | 23.7 (1.4) | 55.1 (8.0) | -15.2 (4.1) | 100.0 (92.7) |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 24.9 (1.6) | 76.3 (6.3) | -16.3 (4.8) | 153.0 (82.5) | 25.0 (1.7) | 75.6 (6.3) | -16.0 (4.8) | 163.0 (78.6) |
| 19 | 26.4 (1.3) | 78.7 (6.3) | -16.8 (2.2) | 225.0 (16.2) | 26.5 (1.3) | 78.2 (6.4) | -17.3 (0.9) | 230.0 (1.6) |
| 20 | 24.1 (1.0) | 59.3 (12.6) | -16.8 (5.6) | 119.0 (78.1) | 23.7 (1.2) | 59.4 (12.5) | -18.4 (7.2) | 131.0 (78.1) |
| 21 | 24.2 (1.3) | 54.1 (11.7) | -17.5 (3.3) | 95.0 (93.1) | 23.7 (1.7) | 54.5 (11.5) | -15.9 (4.6) | 96.6 (89.2) |
| 22 | 24.9 (1.9) | 60.6 (5.9) | -17.7 (4.3) | 126.0 (91.6) | 24.6 (2.3) | 60.7 (5.9) | -17.9 (6.3) | 128.0 (84.8) |
| 23 | 26.0 (2.5) | 67.7 (6.9) | -17.3 (3.2) | 182.0 (79.9) | 26.1 (2.6) | 66.7 (6.6) | -17.3 (3.8) | 175.0 (72.9) |
| 24 | 25.9 (1.5) | 80.4 (2.4) | -19.7 (6.2) | 200.0 (56.6) | 26.1 (1.4) | 79.5 (2.4) | -18.0 (6.3) | 194.0 (48.0) |
| 25 | 23.2 (0.4) | 76.0 (2.7) | -19.3 (4.4) | 76.1 (22.4) | 22.8 (0.6) | 75.6 (2.2) | -20.1 (5.3) | 84.6 (20.7) |
| 26 | 24.4 (1.1) | 80.5 (3.0) | -18.8 (6.6) | 132.0 (47.7) | 24.3 (1.1) | 80.4 (3.3) | -20.3 (6.6) | 152.0 (59.2) |
| 27 | 24.0 (0.9) | 69.5 (9.0) | -16.6 (5.8) | 109.0 (51.2) | 23.9 (1.0) | 69.7 (8.5) | -16.6 (6.8) | 116.0 (57.4) |
| 28 | 22.8 (0.5) | 58.6 (4.2) | -17.7 (2.6) | 40.8 (23.8) | 22.7 (0.5) | 59.0 (4.3) | -15.6 (3.8) | 43.2 (27.1) |
| 29 | 22.2 (0.8) | 55.4 (9.0) | -18.3 (2.7) | 32.0 (17.4) | 22.0 (0.9) | 56.5 (9.2) | -15.0 (3.1) | 32.6 (17.7) |
| 30 | 21.8 (1.2) | 57.5 (10.1) | -18.1 (2.6) | 37.0 (25.6) | 21.5 (1.5) | 58.1 (10.1) | -15.9 (3.5) | 39.4 (28.9) |
| 31 | 22.7 (1.5) | 61.0 (6.0) | -17.5 (4.4) | 64.1 (53.8) | 22.6 (1.6) | 61.4 (5.5) | -14.4 (4.3) | 65.3 (53.6) |
| Mean | 24.8 | 64.9 | -17.3 | 127.0 | 24.7 | 64.8 | -16.8 | 134.0 |
| n | 29 | 29 | 26 | 26 | 29 | 29 | 29 | 29 |
| SD | 1.5 | 9.9 | 1.4 | 61.1 | 1.8 | 9.6 | 1.8 | 58.3 |
| Min | 21.8 | 50.2 | -19.7 | 32.0 | 21.5 | 50.4 | -21.2 | 32.6 |
| Max | 28.1 | 81.8 | -14.7 | 225.0 | 28.3 | 81.5 | -13.7 | 230.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for November, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 23.6 (1.0) | 60.1 (5.8) | -18.5 (4.0) | 89.6 (79.1) | 23.5 (1.1) | 59.9 (5.4) | -16.4 (5.4) | 91.6 (78.6) |
| 2 | 24.0 (0.7) | 51.7 (4.3) | -21.0 (3.7) | 34.0 (18.0) | 23.1 (1.0) | 52.0 (4.7) | -19.3 (4.1) | 37.0 (21.9) |
| 3 | 23.9 (0.8) | 54.3 (7.6) | -16.8 (3.2) | 29.9 (14.5) | 23.7 (0.9) | 55.5 (8.1) | -14.1 (3.3) | 30.7 (15.2) |
| 4 | 23.3 (1.1) | 55.7 (11.0) | -16.2 (3.3) | 28.6 (17.5) | 23.0 (1.2) | 57.6 (10.7) | -14.5 (3.5) | 30.0 (17.1) |
| 5 | 23.6 (1.1) | 52.7 (11.5) | -16.2 (3.2) | 30.3 (18.2) | 23.2 (1.3) | 55.1 (11.1) | -14.2 (3.2) | 31.1 (16.4) |
| 6 | 24.0 (0.7) | 50.3 (5.7) | -16.4 (2.7) | 31.2 (15.8) | 23.5 (0.8) | 52.2 (6.0) | -13.4 (3.7) | 33.3 (22.8) |
| 7 | 22.6 (1.2) | 58.3 (9.5) | -17.4 (2.5) | 20.6 (11.7) | 22.4 (1.5) | 59.5 (10.1) | -15.7 (2.8) | 21.9 (8.5) |
| 8 | 22.1 (1.3) | 63.3 (8.7) | -18.1 (2.2) | 18.7 (7.1) | 20.7 (1.0) | 64.7 (9.4) | -14.7 (3.1) | |
| 9 | 23.0 (1.1) | 60.7 (8.3) | -17.8 (2.9) | 22.5 (12.2) | 22.8 (1.2) | 62.5 (8.7) | -15.1 (3.0) | |
| 10 | 23.0 (1.0) | 63.8 (5.6) | -18.7 (2.8) | 21.0 (8.6) | 23.0 (0.9) | 66.3 (5.4) | -15.9 (2.9) | |
| 11 | 22.1 (1.5) | 64.9 (9.4) | -18.4 (2.5) | 21.0 (11.5) | 22.2 (1.6) | 66.9 (9.2) | -15.6 (2.4) | |
| 12 | 23.2 (1.5) | 60.5 (8.7) | -17.6 (2.7) | 27.4 (15.4) | 23.1 (1.3) | 62.9 (8.6) | -14.5 (3.4) | |
| 13 | 24.7 (0.4) | 56.6 (5.9) | -17.8 (4.4) | 50.4 (34.1) | 24.5 (0.7) | 57.8 (6.1) | -16.5 (6.5) | |
| 14 | | | | | | | | |
| 15 | 24.1 (0.8) | 64.1 (1.9) | -16.8 (2.5) | 30.3 (16.0) | 23.4 (1.0) | 65.8 (2.1) | -13.9 (3.8) | 34.3 (24.6) |
| 16 | 22.1 (1.1) | 61.8 (8.1) | -18.1 (2.7) | 19.0 (8.5) | 21.6 (1.3) | 64.9 (7.8) | -15.0 (3.0) | 19.0 (8.1) |
| 17 | 22.1 (1.9) | 61.4 (11.0) | -18.0 (2.2) | 21.5 (9.2) | 21.6 (1.8) | 64.2 (10.8) | -14.9 (3.0) | 23.1 (13.1) |
| 18 | 23.1 (1.7) | 60.7 (9.9) | -17.1 (3.3) | 29.1 (17.6) | 22.6 (1.8) | 63.8 (10.1) | -15.1 (3.5) | 31.5 (21.1) |
| 19 | 24.1 (0.4) | 64.2 (2.5) | -18.2 (2.4) | 23.5 (8.3) | 23.6 (0.5) | 67.1 (3.0) | -14.6 (2.9) | 25.2 (13.0) |
| 20 | 24.3 (0.5) | 63.8 (3.5) | -17.0 (3.5) | 33.5 (21.4) | 24.2 (0.6) | 66.0 (4.2) | -13.9 (3.2) | 34.8 (21.3) |
| 21 | 24.4 (1.2) | 58.4 (8.4) | -16.3 (5.4) | 56.2 (46.1) | 24.3 (1.1) | 60.3 (8.7) | -14.4 (5.0) | 60.6 (51.6) |
| 22 | 25.3 (0.8) | 58.0 (4.2) | -16.6 (4.9) | 72.0 (49.0) | 24.8 (0.8) | 59.3 (4.2) | -16.6 (7.1) | 80.2 (52.5) |
| 23 | 23.2 (1.2) | 55.2 (7.8) | -18.5 (2.6) | 20.5 (8.7) | 23.0 (1.2) | 57.2 (8.1) | -15.8 (3.0) | 21.8 (10.5) |
| 24 | 21.6 (1.6) | 64.9 (8.3) | -18.6 (2.1) | 17.0 (5.8) | 21.2 (1.6) | 66.6 (8.9) | -16.3 (2.4) | 18.9 (7.5) |
| 25 | 23.1 (0.8) | 66.4 (3.6) | -18.3 (2.8) | 19.0 (7.3) | 22.8 (1.0) | 68.5 (3.6) | -15.3 (2.7) | 20.0 (7.7) |
| 26 | 24.4 (0.6) | 70.7 (3.3) | -15.7 (3.7) | 35.6 (16.7) | 24.0 (0.5) | 71.9 (3.7) | -13.9 (3.4) | 42.1 (25.9) |
| 27 | 24.6 (0.7) | 61.9 (8.5) | -15.0 (3.8) | 36.4 (19.8) | 24.3 (0.7) | 63.0 (8.6) | -12.5 (3.4) | 39.0 (22.9) |
| 28 | 22.9 (1.2) | 61.3 (8.8) | -18.3 (2.6) | 19.3 (9.4) | 22.6 (1.2) | 62.9 (9.3) | -15.3 (2.8) | 20.7 (10.2) |
| 29 | | | | | | | | |
| 30 | 22.4 (1.3) | 62.4 (11.0) | -18.7 (2.4) | 18.6 (7.3) | 22.2 (1.2) | 64.1 (11.3) | -15.7 (2.5) | 20.1 (9.4) |
| Mean | 23.4 | 60.3 | -17.6 | 31.3 | 23.0 | 62.1 | -15.1 | 34.9 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 22 |
| SD | 0.9 | 4.7 | 1.2 | 16.7 | 1.0 | 4.9 | 1.3 | 18.8 |
| Min | 21.6 | 50.3 | -21.0 | 17.0 | 20.7 | 52.0 | -19.3 | 18.9 |
| Max | 25.3 | 70.7 | -15.0 | 89.6 | 24.8 | 71.9 | -12.5 | 91.6 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for December, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 22.4 (1.6) | 61.9 (10.7) | -18.6 (2.4) | 19.1 (8.5) | 22.0 (1.6) | 64.0 (10.9) | -16.0 (2.5) | 20.5 (10.0) |
| 2 | 23.3 (1.3) | 63.4 (5.1) | -18.7 (2.4) | 21.5 (8.8) | 23.0 (1.4) | 64.8 (5.8) | -15.6 (2.3) | 23.0 (7.4) |
| 3 | 23.9 (1.1) | 60.6 (8.8) | -18.3 (3.0) | 28.0 (14.8) | 23.9 (1.3) | 61.1 (9.3) | -14.3 (3.1) | 29.4 (15.6) |
| 4 | 21.9 (0.5) | 64.9 (4.3) | -18.8 (2.3) | 16.7 (5.4) | 21.7 (0.7) | 66.3 (3.1) | -15.9 (2.4) | 17.2 (5.3) |
| 5 | 22.5 (0.9) | 65.0 (5.0) | -18.0 (2.8) | 18.0 (9.3) | 22.3 (1.0) | 65.0 (5.1) | -15.6 (3.3) | 19.8 (10.1) |
| 6 | 21.2 (1.1) | 69.9 (5.4) | -19.4 (2.5) | 15.7 (4.2) | 20.7 (1.2) | 68.8 (6.4) | -18.6 (3.3) | 19.0 (7.2) |
| 7 | 21.4 (2.1) | 71.7 (6.4) | -18.8 (2.2) | 17.5 (5.8) | 21.1 (2.2) | 71.3 (6.8) | -15.9 (2.2) | 18.7 (6.6) |
| 8 | 24.0 (0.9) | 62.3 (5.3) | -17.4 (3.1) | 37.8 (26.0) | 24.0 (1.0) | 63.2 (5.7) | -16.0 (5.7) | 39.2 (25.6) |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 24.8 (0.4) | 68.0 (2.2) | -18.1 (2.1) | 28.2 (8.8) | 24.5 (0.5) | 68.4 (2.2) | -14.2 (2.6) | 31.1 (13.9) |
| 12 | 25.2 (0.8) | 65.4 (5.5) | -18.3 (5.6) | 78.5 (57.2) | 25.1 (0.7) | 65.4 (4.6) | -17.2 (6.6) | 87.1 (66.9) |
| 13 | 24.7 (0.4) | 63.2 (2.5) | -19.0 (5.0) | 48.7 (36.2) | 24.5 (0.6) | 63.4 (2.4) | -17.3 (7.2) | 52.2 (37.1) |
| 14 | 24.6 (0.6) | 60.0 (7.8) | -16.7 (3.7) | 32.2 (18.0) | 24.5 (0.5) | 60.7 (7.1) | -13.8 (3.1) | 34.7 (19.2) |
| 15 | 23.2 (0.4) | 69.1 (2.9) | -20.7 (2.9) | 18.6 (6.9) | 22.7 (0.5) | 69.7 (3.7) | -19.2 (3.3) | 21.1 (8.8) |
| 16 | 22.9 (0.7) | 68.5 (4.0) | -20.2 (3.9) | 19.3 (8.1) | 22.8 (0.8) | 70.6 (4.3) | -16.7 (3.6) | 18.8 (8.1) |
| 17 | 21.5 (1.1) | 69.4 (5.6) | -18.7 (2.2) | 16.4 (4.8) | 21.0 (1.4) | 71.5 (4.6) | -15.5 (2.3) | 16.4 (4.5) |
| 18 | 20.6 (1.9) | 73.3 (7.0) | -18.8 (2.7) | 16.0 (8.1) | 20.1 (2.2) | 72.7 (6.8) | -16.4 (2.5) | 17.4 (8.1) |
| 19 | 21.9 (1.1) | 74.1 (4.5) | -19.1 (2.2) | 16.9 (5.9) | 21.9 (1.2) | 74.7 (4.0) | -16.0 (2.2) | 17.5 (5.8) |
| 20 | 22.3 (1.6) | 71.6 (7.8) | -18.5 (3.0) | 18.8 (10.6) | 22.2 (1.5) | 71.6 (8.5) | -15.9 (2.7) | 20.6 (11.6) |
| 21 | 23.4 (0.6) | 69.8 (2.8) | -20.3 (3.1) | 20.3 (8.4) | 23.1 (0.5) | 70.6 (3.0) | -18.6 (3.1) | 21.3 (9.6) |
| 22 | 24.3 (0.4) | 67.8 (2.7) | -19.3 (2.9) | 25.5 (13.8) | 24.0 (0.5) | 68.0 (2.6) | -16.7 (3.3) | 27.7 (16.6) |
| 23 | 24.8 (0.3) | 70.9 (2.6) | -17.7 (4.1) | 41.9 (26.1) | 24.6 (0.5) | 70.9 (3.2) | -15.8 (5.9) | 47.7 (31.3) |
| 24 | 21.2 (2.3) | 61.4 (5.9) | -19.9 (6.2) | 25.6 (12.6) | 21.3 (2.3) | 62.0 (6.5) | -15.4 (5.5) | 27.4 (14.3) |
| 25 | 19.9 (3.1) | 64.8 (3.9) | -21.1 (6.4) | 25.2 (11.4) | 20.1 (3.0) | 66.1 (3.6) | -17.0 (5.5) | 26.5 (11.9) |
| 26 | 20.3 (0.9) | 69.1 (2.3) | -22.1 (5.6) | 24.3 (11.0) | 20.2 (0.9) | 70.3 (2.5) | -18.7 (5.7) | 25.2 (11.6) |
| 27 | 20.8 (2.5) | 67.6 (3.3) | -20.7 (5.9) | 26.1 (12.1) | 21.1 (2.4) | 68.7 (3.3) | -16.0 (4.7) | 24.8 (10.9) |
| 28 | 22.0 (3.1) | 66.8 (3.4) | -19.1 (5.5) | 31.4 (14.9) | 22.8 (2.7) | 67.4 (3.5) | -14.4 (4.2) | 26.5 (11.8) |
| 29 | 25.3 (0.6) | 71.1 (2.6) | -16.3 (6.6) | 70.1 (40.2) | 25.0 (0.7) | 71.9 (2.8) | -16.9 (6.7) | 73.2 (39.5) |
| 30 | 24.3 (0.6) | 69.3 (1.7) | -19.0 (5.4) | 27.3 (12.7) | 24.4 (0.6) | 69.8 (2.2) | -14.7 (4.5) | 28.8 (13.7) |
| 31 | | | | | | | | |
| Mean | 22.8 | 67.2 | -19.0 | 28.1 | 22.7 | 67.8 | -16.2 | 29.7 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 1.6 | 3.9 | 1.3 | 15.2 | 1.6 | 3.7 | 1.4 | 16.5 |
| Min | 19.9 | 60.0 | -22.1 | 15.7 | 20.1 | 60.7 | -19.2 | 16.4 |
| Max | 25.3 | 74.1 | -16.3 | 78.5 | 25.1 | 74.7 | -13.8 | 87.1 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for January, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | 19.2 (2.8) | 72.7 (5.7) | -18.7 (4.1) | 17.1 (8.3) | 17.0 (4.8) | 70.8 (4.6) | -15.5 (3.7) | 19.3 (8.5) |
| 5 | 21.9 (1.5) | 67.4 (8.2) | -18.9 (2.8) | 18.5 (12.8) | 21.7 (2.0) | 67.9 (7.8) | -14.5 (2.7) | 18.8 (11.3) |
| 6 | 24.4 (0.7) | 59.9 (5.0) | -16.6 (3.3) | 32.5 (17.9) | 24.4 (0.6) | 61.0 (5.4) | -13.8 (2.9) | 35.9 (22.0) |
| 7 | 24.5 (0.8) | 62.6 (6.1) | -19.2 (5.7) | 45.7 (37.2) | 24.7 (0.7) | 63.2 (5.9) | -16.3 (5.8) | 45.2 (31.7) |
| 8 | 25.1 (0.5) | 64.5 (3.6) | -19.1 (6.0) | 57.5 (38.4) | 25.1 (0.6) | 64.9 (3.4) | -16.9 (7.5) | 58.5 (37.2) |
| 9 | 24.9 (0.3) | 64.7 (3.6) | -18.8 (5.5) | 49.8 (31.0) | 24.8 (0.5) | 65.1 (4.1) | -16.1 (7.5) | 54.7 (33.0) |
| 10 | 24.5 (0.6) | 59.5 (4.5) | -17.8 (3.9) | 26.3 (16.7) | 24.7 (0.4) | 59.2 (4.1) | -14.0 (3.0) | 28.1 (11.8) |
| 11 | 25.1 (0.3) | 66.3 (3.6) | -15.8 (3.6) | 54.9 (23.5) | 24.9 (0.5) | 67.0 (3.8) | -15.3 (5.8) | 65.5 (29.5) |
| 12 | 24.0 (0.7) | 62.5 (4.5) | -19.4 (3.1) | 22.2 (12.6) | 23.8 (0.9) | 62.7 (5.0) | -14.8 (3.5) | 24.5 (15.9) |
| 13 | 23.5 (0.6) | 67.0 (1.8) | -19.4 (3.0) | 19.5 (7.7) | 23.6 (0.7) | 68.3 (2.2) | -15.3 (2.9) | 19.7 (7.2) |
| 14 | 22.1 (0.9) | 67.3 (7.0) | -19.5 (3.4) | 18.5 (8.3) | 22.1 (1.0) | 67.7 (7.4) | -14.6 (2.9) | 19.0 (8.6) |
| 15 | 20.1 (2.1) | 69.8 (5.0) | -19.9 (2.7) | 16.7 (6.4) | 20.6 (1.4) | 71.6 (4.0) | -15.5 (3.5) | 16.4 (6.7) |
| 16 | 20.1 (2.3) | 69.2 (6.2) | -20.4 (3.9) | 18.2 (7.7) | 20.1 (1.7) | 70.1 (5.7) | -15.6 (4.4) | 19.5 (9.6) |
| 17 | 21.4 (0.9) | 70.6 (4.0) | -20.5 (5.3) | 19.9 (11.3) | 21.2 (0.6) | 71.2 (4.6) | -16.1 (5.8) | 21.7 (13.1) |
| 18 | 22.7 (1.2) | 69.1 (5.0) | -19.8 (4.0) | 20.5 (8.9) | 22.3 (1.1) | 71.3 (4.5) | -14.5 (5.2) | 22.3 (13.1) |
| 19 | 21.9 (1.4) | 70.6 (1.9) | -21.0 (5.8) | 21.2 (12.9) | 21.7 (1.2) | 71.8 (2.0) | -15.8 (5.6) | 22.5 (10.8) |
| 20 | 18.5 (1.2) | 69.6 (5.5) | -21.1 (5.6) | 19.4 (8.6) | 18.0 (1.2) | 68.9 (6.0) | -14.9 (4.9) | 21.0 (9.6) |
| 21 | 18.6 (2.2) | 75.6 (4.9) | -20.1 (2.7) | 15.1 (7.0) | 18.1 (1.5) | 74.7 (6.2) | -15.3 (6.6) | 17.4 (13.0) |
| 22 | 20.9 (2.2) | 72.1 (5.9) | -20.0 (3.5) | 18.4 (7.7) | 20.2 (2.3) | 73.7 (7.5) | -14.6 (6.6) | 19.3 (13.0) |
| 23 | 22.7 (1.6) | 65.6 (6.4) | -19.8 (5.5) | 23.6 (13.8) | 22.7 (1.5) | 67.1 (7.6) | -14.7 (5.4) | 25.1 (13.6) |
| 24 | 20.6 (2.2) | 69.3 (2.8) | -20.4 (5.1) | 20.3 (9.1) | 20.9 (1.9) | 70.5 (2.3) | -15.1 (4.3) | 20.9 (9.4) |
| 25 | 20.1 (1.3) | 70.3 (6.4) | -20.1 (4.2) | 17.7 (10.9) | 20.7 (1.0) | 70.6 (6.8) | -15.9 (3.9) | 18.7 (7.3) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 21.5 (1.7) | 68.9 (8.6) | -19.5 (3.7) | 19.2 (9.1) | 21.7 (1.6) | 68.4 (7.6) | -13.9 (3.4) | 20.5 (9.1) |
| 29 | 23.5 (1.3) | 59.2 (8.9) | -18.8 (2.9) | 26.9 (12.5) | 23.9 (1.2) | 58.7 (9.1) | -12.9 (3.1) | 28.4 (11.9) |
| 30 | 23.6 (1.6) | 59.3 (8.6) | -18.2 (3.1) | 26.0 (15.3) | 24.1 (1.2) | 58.8 (9.6) | -12.8 (3.4) | 27.3 (14.8) |
| 31 | 21.2 (2.1) | 65.1 (8.0) | -20.0 (3.4) | 18.8 (8.1) | 21.9 (1.7) | 64.4 (9.2) | -17.1 (3.8) | 20.7 (9.0) |
| Mean | 22.2 | 66.9 | -19.3 | 25.6 | 22.1 | 67.3 | -15.1 | 27.3 |
| n | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 2.0 | 4.3 | 1.2 | 12.0 | 2.2 | 4.5 | 1.1 | 13.2 |
| Min | 18.5 | 59.2 | -21.1 | 15.1 | 17.0 | 58.7 | -17.1 | 16.4 |
| Max | 25.1 | 75.6 | -15.8 | 57.5 | 25.1 | 74.7 | -12.8 | 65.5 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for February, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 23.3 (1.0) | 68.8 (3.3) | -19.0 (3.1) | 25.2 (12.7) | 23.7 (0.9) | 68.7 (3.7) | -14.6 (4.5) | 27.5 (21.3) |
| 2 | 22.4 (1.5) | 66.0 (8.2) | -19.3 (3.6) | 23.5 (11.8) | 23.0 (1.5) | 65.7 (8.8) | -14.5 (3.3) | 25.3 (12.8) |
| 3 | 23.2 (1.6) | 60.7 (11.4) | -18.1 (4.0) | 28.6 (15.3) | 23.6 (1.5) | 61.0 (10.7) | -14.0 (3.3) | 29.8 (15.3) |
| 4 | 24.3 (1.0) | 61.8 (5.0) | -17.5 (4.4) | 40.4 (27.9) | 24.7 (0.8) | 61.7 (4.4) | -13.4 (5.3) | 42.2 (27.3) |
| 5 | 25.0 (0.5) | 63.8 (3.9) | -18.6 (6.3) | 67.3 (42.8) | 24.9 (0.7) | 64.2 (3.5) | -16.6 (8.3) | 68.7 (42.1) |
| 6 | 25.6 (0.7) | 62.0 (5.4) | -18.1 (6.5) | 108.0 (66.3) | 25.5 (0.8) | 62.9 (5.1) | -16.7 (7.8) | 113.0 (66.9) |
| 7 | 24.4 (0.8) | 53.1 (8.5) | -17.1 (4.8) | 34.6 (19.7) | 24.3 (0.6) | 53.6 (9.0) | -12.5 (4.4) | 38.9 (22.2) |
| 8 | 22.7 (1.3) | 62.7 (7.2) | -19.8 (4.1) | 22.7 (14.3) | 23.0 (1.2) | 62.8 (7.7) | -15.2 (3.6) | 24.7 (12.3) |
| 9 | 23.8 (1.1) | 58.5 (10.4) | -18.0 (3.9) | 30.9 (18.8) | 23.9 (0.9) | 59.0 (9.9) | -13.8 (3.2) | 32.1 (17.1) |
| 10 | 23.8 (0.8) | 49.4 (7.1) | -22.0 (6.2) | 28.3 (14.0) | 24.0 (0.9) | 49.3 (7.5) | -16.1 (5.6) | 28.6 (13.5) |
| 11 | 20.6 (1.7) | 59.4 (7.1) | -20.4 (3.6) | 19.0 (8.5) | 20.5 (1.7) | 59.5 (7.7) | -16.2 (3.7) | 20.4 (8.8) |
| 12 | 22.8 (2.1) | 64.1 (6.0) | -18.9 (2.9) | 23.1 (12.8) | 22.3 (2.0) | 64.5 (6.2) | -14.7 (3.6) | 26.2 (17.9) |
| 13 | 24.5 (0.6) | 69.7 (2.4) | -17.3 (3.8) | 37.5 (19.7) | 24.3 (0.5) | 70.3 (2.4) | -14.3 (4.2) | 43.7 (27.3) |
| 14 | 22.2 (1.3) | 65.8 (7.3) | -20.2 (4.3) | 20.1 (11.9) | 22.1 (1.3) | 65.5 (8.4) | -14.8 (3.8) | 21.6 (11.8) |
| 15 | 23.3 (1.3) | 61.3 (10.2) | -19.4 (3.4) | 25.9 (14.0) | 23.2 (1.3) | 62.0 (9.9) | -14.1 (3.3) | 27.3 (16.7) |
| 16 | 24.0 (0.4) | 59.4 (4.9) | -19.0 (3.9) | 26.0 (13.9) | 23.9 (0.4) | 59.7 (5.3) | -14.4 (3.6) | 28.0 (15.4) |
| 17 | | | | | | | | |
| 18 | 24.9 (0.5) | 63.1 (10.0) | -16.6 (6.4) | 61.0 (32.3) | 24.6 (0.5) | 63.9 (10.0) | -14.6 (6.3) | 66.1 (31.8) |
| 19 | 22.8 (1.2) | 59.4 (7.8) | -21.2 (4.6) | 21.6 (11.2) | 22.9 (1.1) | 60.0 (8.3) | -15.4 (3.7) | 20.9 (7.6) |
| 20 | 22.5 (1.9) | 59.7 (10.9) | -20.3 (3.5) | 26.6 (14.5) | 22.6 (1.7) | 60.5 (10.7) | -15.0 (3.8) | 24.9 (13.0) |
| 21 | 21.3 (1.0) | 63.6 (5.3) | -21.2 (4.3) | 19.1 (11.2) | 21.4 (0.9) | 65.1 (4.5) | -18.7 (4.7) | 19.7 (9.0) |
| 22 | 21.9 (0.9) | 71.9 (3.2) | -21.2 (4.5) | 19.6 (11.2) | 22.0 (0.7) | 73.2 (2.4) | -16.6 (3.2) | 18.0 (5.3) |
| 23 | 24.2 (0.6) | 70.1 (3.0) | -19.5 (3.3) | 22.8 (9.8) | 24.1 (0.6) | 70.7 (3.1) | -15.4 (2.9) | 21.7 (7.4) |
| 24 | 23.6 (0.8) | 66.8 (5.7) | -20.1 (3.5) | 18.8 (7.4) | 23.4 (0.6) | 66.7 (6.6) | -16.1 (3.4) | 21.2 (6.7) |
| 25 | 23.4 (1.0) | 65.2 (7.1) | -18.8 (4.2) | 24.7 (16.0) | 23.5 (1.0) | 65.1 (7.9) | -14.0 (3.6) | 25.7 (14.5) |
| 26 | 24.4 (0.5) | 68.3 (2.2) | -17.2 (3.2) | 30.1 (13.4) | 24.4 (0.5) | 68.4 (2.1) | -12.6 (3.5) | 33.0 (19.1) |
| 27 | 22.5 (1.1) | 64.4 (5.3) | -19.7 (4.4) | 19.6 (8.6) | 22.6 (1.1) | 64.6 (5.6) | -14.5 (4.0) | 20.8 (9.1) |
| 28 | 20.0 (1.5) | 67.9 (7.4) | -21.6 (3.9) | 18.3 (8.4) | 20.1 (1.3) | 67.5 (6.9) | -15.1 (3.6) | 19.7 (8.7) |
| 29 | 21.9 (2.5) | 64.2 (9.7) | -19.8 (4.2) | 19.6 (8.6) | 21.9 (2.4) | 62.6 (10.4) | -13.3 (3.7) | 23.1 (11.1) |
| Mean | 23.2 | 63.2 | -19.3 | 30.8 | 23.2 | 63.5 | -14.9 | 32.6 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 1.3 | 4.9 | 1.4 | 18.8 | 1.3 | 4.9 | 1.3 | 19.8 |
| Min | 20.0 | 49.4 | -22.0 | 18.3 | 20.1 | 49.3 | -18.7 | 18.0 |
| Max | 25.6 | 71.9 | -16.6 | 108.0 | 25.5 | 73.2 | -12.5 | 113.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for March, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 24.2 (0.7) | 54.2 (9.0) | -18.6 (4.1) | 25.0 (12.7) | 24.1 (0.6) | 54.7 (9.6) | -14.1 (4.7) | 31.9 (22.0) |
| 2 | 23.0 (1.3) | 58.3 (9.9) | -19.1 (3.7) | 22.0 (10.4) | 22.9 (1.3) | 60.5 (8.0) | -14.4 (3.8) | 25.5 (13.0) |
| 3 | 24.1 (1.6) | 61.1 (6.6) | -18.1 (5.2) | 44.1 (34.0) | 23.8 (1.6) | 62.2 (6.5) | -15.7 (6.2) | 51.1 (38.8) |
| 4 | | | | | | | | |
| 5 | 24.8 (0.5) | 57.5 (8.3) | -17.4 (3.7) | 36.0 (21.0) | 24.6 (0.6) | 58.8 (8.2) | -12.4 (3.3) | 36.9 (19.1) |
| 6 | 24.1 (1.1) | 59.5 (7.5) | -19.0 (3.9) | 35.4 (24.0) | 23.9 (1.2) | 60.6 (7.5) | -15.1 (3.5) | 36.1 (22.9) |
| 7 | 24.4 (0.7) | 69.8 (4.0) | -16.5 (4.6) | 36.5 (23.2) | 24.1 (0.4) | 70.6 (3.6) | -13.7 (3.8) | 40.3 (24.3) |
| 8 | 24.3 (1.0) | 64.8 (9.0) | -21.0 (8.1) | 48.1 (26.3) | 24.3 (0.9) | 64.8 (9.3) | -16.0 (7.1) | 52.8 (29.6) |
| 9 | 21.8 (2.0) | 61.7 (7.7) | -20.3 (4.0) | 20.7 (9.3) | 22.0 (1.7) | 60.9 (9.2) | -14.0 (3.8) | 22.8 (10.8) |
| 10 | 22.6 (2.0) | 59.9 (11.0) | -19.5 (4.3) | 26.4 (15.9) | 22.8 (1.6) | 57.9 (12.7) | -12.1 (3.7) | 35.7 (22.3) |
| 11 | 24.1 (1.0) | 56.3 (7.7) | -18.1 (3.9) | 31.4 (21.7) | 23.5 (1.1) | 54.5 (7.5) | -12.2 (3.7) | 42.4 (24.5) |
| 12 | 24.2 (0.8) | 52.8 (10.7) | -17.3 (4.0) | 33.5 (21.8) | 23.6 (0.8) | 50.3 (10.7) | -11.5 (4.0) | 46.3 (33.0) |
| 13 | 24.2 (1.4) | 52.1 (10.9) | -19.3 (6.3) | 54.9 (48.8) | 24.2 (1.7) | 48.9 (10.3) | -12.9 (4.8) | 66.7 (53.1) |
| 14 | 25.0 (0.8) | 49.0 (6.8) | -17.1 (4.5) | 57.7 (41.7) | 24.8 (0.8) | 45.7 (5.4) | -12.8 (4.0) | 66.8 (48.4) |
| 15 | 24.6 (0.5) | 54.9 (8.4) | -16.7 (4.3) | 53.4 (36.3) | 24.4 (0.9) | 53.4 (8.9) | -14.1 (5.3) | 55.5 (33.4) |
| 16 | 24.2 (0.4) | 58.5 (5.9) | -19.3 (3.0) | 28.2 (15.9) | 22.8 (1.0) | 58.7 (7.3) | -12.3 (3.7) | 42.9 (16.2) |
| 17 | 22.1 (1.0) | 54.7 (9.6) | -18.9 (3.5) | 29.9 (17.3) | 20.6 (2.6) | 55.4 (9.4) | -13.8 (3.5) | 34.2 (15.4) |
| 18 | 22.2 (1.6) | 57.2 (6.2) | -16.5 (4.4) | 32.2 (19.5) | 22.9 (1.7) | 58.6 (5.4) | -12.8 (3.2) | 27.4 (11.9) |
| 19 | 25.4 (1.0) | 60.2 (4.5) | -15.1 (6.7) | 96.4 (64.9) | 25.4 (0.7) | 61.9 (4.1) | -11.8 (7.8) | 108.0 (79.7) |
| 20 | 24.0 (0.7) | 49.7 (9.3) | -16.7 (3.8) | 34.1 (18.2) | 24.1 (0.8) | 51.6 (9.6) | -11.2 (3.3) | 36.3 (17.8) |
| 21 | 23.3 (1.6) | 47.8 (13.4) | -17.0 (3.9) | 32.0 (18.6) | 23.4 (1.6) | 49.8 (12.9) | -12.4 (3.1) | 34.1 (19.6) |
| 22 | 24.9 (0.9) | 46.2 (8.1) | -18.0 (6.1) | 62.8 (53.7) | 24.7 (1.0) | 47.4 (7.7) | -15.0 (7.3) | 69.2 (56.3) |
| 23 | 23.5 (0.7) | 50.6 (8.4) | -19.1 (3.3) | 25.1 (13.1) | 23.2 (0.9) | 50.4 (8.5) | -15.0 (3.7) | 29.4 (14.2) |
| 24 | 23.0 (0.8) | 56.9 (7.3) | -18.9 (3.5) | 21.4 (11.1) | 22.9 (0.8) | 57.4 (7.2) | -15.7 (3.2) | 23.9 (12.6) |
| 25 | 23.3 (1.2) | 55.2 (8.1) | -16.8 (4.0) | 21.0 (11.7) | 22.8 (1.3) | 56.2 (9.6) | -13.5 (3.1) | 25.6 (11.6) |
| 26 | 24.7 (1.0) | 48.1 (10.1) | -17.8 (5.2) | 49.0 (42.8) | 24.6 (1.2) | 48.8 (10.0) | -15.8 (7.4) | 55.6 (48.8) |
| 27 | 25.4 (0.9) | 46.7 (9.3) | -14.2 (6.3) | 70.0 (56.8) | 25.4 (0.8) | 47.9 (9.3) | -12.9 (7.3) | 82.0 (76.3) |
| 28 | 26.2 (1.2) | 51.8 (6.4) | -15.5 (5.6) | 128.0 (100.0) | 26.4 (1.2) | 52.7 (6.2) | -12.0 (7.2) | 129.0 (101.0) |
| 29 | 24.1 (0.6) | 60.0 (3.4) | -19.4 (3.2) | 20.3 (6.7) | 23.9 (0.7) | 60.8 (3.7) | -16.2 (4.1) | 23.8 (12.2) |
| 30 | 23.4 (0.3) | 65.1 (4.2) | -20.7 (3.4) | 18.6 (7.5) | 23.4 (0.3) | 66.0 (4.0) | -17.6 (3.7) | 21.8 (7.5) |
| 31 | 24.6 (0.7) | 69.6 (2.4) | -15.9 (3.9) | 35.1 (19.7) | 25.1 (1.0) | 69.8 (2.1) | -12.2 (3.1) | 36.5 (19.5) |
| Mean | 24.0 | 56.3 | -17.9 | 41.0 | 23.8 | 56.6 | -13.7 | 46.4 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 1.0 | 6.2 | 1.6 | 23.5 | 1.1 | 6.4 | 1.6 | 24.7 |
| Min | 21.8 | 46.2 | -21.0 | 18.6 | 20.6 | 45.7 | -17.6 | 21.8 |
| Max | 26.2 | 69.8 | -14.2 | 128.0 | 26.4 | 70.6 | -11.2 | 129.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for April, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 25.5 (0.7) | 70.3 (2.4) | -16.7 (6.7) | 94.3 (59.8) | 25.8 (0.6) | 70.6 (2.1) | -14.3 (8.9) | 87.1 (51.1) |
| 2 | 24.9 (0.6) | 56.8 (10.9) | -16.9 (4.6) | 37.3 (21.1) | 25.0 (0.7) | 57.1 (11.1) | -13.6 (4.1) | 41.2 (22.6) |
| 3 | 24.3 (0.6) | 60.7 (5.2) | -17.5 (4.0) | 22.2 (13.7) | 24.2 (0.5) | 62.1 (4.7) | -13.3 (3.1) | 24.0 (11.1) |
| 4 | 25.0 (0.9) | 66.8 (2.8) | -17.8 (6.8) | 64.4 (51.4) | 25.1 (0.7) | 67.4 (2.5) | -16.6 (9.2) | 63.4 (47.2) |
| 5 | 26.5 (1.1) | 72.8 (1.5) | -13.9 (3.4) | 39.9 (19.7) | 25.4 (0.5) | 72.9 (1.0) | -13.3 (4.5) | 55.6 (20.6) |
| 6 | 24.0 (2.1) | 70.4 (3.3) | -19.4 (3.2) | 29.6 (17.5) | 25.0 (0.3) | 69.7 (1.3) | -16.4 (2.2) | 26.8 (5.3) |
| 7 | 24.0 (0.6) | 70.2 (2.5) | -19.5 (2.9) | 16.4 (9.9) | 24.5 (0.5) | 68.1 (1.7) | -16.4 (3.0) | 24.7 (11.6) |
| 8 | 22.2 (1.1) | 70.4 (3.2) | -17.9 (2.2) | 17.7 (5.8) | 25.1 (0.8) | 65.1 (3.1) | -15.3 (2.6) | 27.5 (9.5) |
| 9 | 20.0 (2.2) | 71.5 (6.4) | -13.1 (4.0) | 47.8 (23.2) | 25.6 (0.4) | 63.3 (4.7) | -17.2 (9.6) | 49.4 (36.2) |
| 10 | 19.4 (5.2) | 73.3 (9.2) | -10.7 (6.2) | 41.1 (37.1) | 25.7 (0.9) | 63.7 (4.8) | -13.4 (6.4) | 57.8 (50.2) |
| 11 | 23.0 (3.3) | 68.2 (9.8) | -12.2 (4.4) | 89.2 (104.0) | 26.8 (1.4) | 62.5 (5.5) | -14.4 (8.3) | |
| 12 | 22.0 (2.3) | 68.4 (3.6) | -11.8 (4.4) | 109.0 (111.0) | 25.7 (1.0) | 63.8 (3.1) | -16.2 (9.3) | 80.1 (40.5) |
| 13 | 17.3 (1.9) | 54.3 (11.1) | -15.7 (3.8) | 39.8 (56.7) | 25.3 (0.6) | 54.1 (7.9) | -12.6 (3.1) | 36.8 (21.5) |
| 14 | 13.5 (2.8) | 57.7 (4.2) | -12.5 (5.6) | 9.9 (7.4) | 23.8 (0.8) | 59.4 (4.4) | -15.4 (2.5) | 24.6 (10.1) |
| 15 | 15.3 (2.6) | 50.8 (10.0) | -9.5 (6.0) | 1.8 (4.7) | 23.1 (1.4) | 55.9 (9.0) | -16.7 (3.2) | 28.4 (14.0) |
| 16 | 15.8 (3.2) | 43.9 (13.5) | -10.0 (5.4) | 62.4 (99.7) | 23.3 (1.6) | 51.5 (13.7) | -16.9 (6.6) | 40.9 (31.2) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 22.6 (3.0) | 48.0 (8.6) | -12.8 (4.3) | 175.0 (119.0) | 26.1 (1.4) | 49.4 (7.0) | -14.9 (6.0) | |
| 20 | 20.0 (1.1) | 70.5 (5.8) | -11.2 (5.0) | 114.0 (124.0) | 25.3 (0.8) | 64.1 (3.6) | -16.3 (6.2) | 67.3 (43.0) |
| 21 | 18.9 (0.7) | 67.3 (3.8) | -10.1 (5.8) | 53.2 (93.1) | 24.9 (0.5) | 63.9 (4.5) | -16.6 (5.8) | 47.4 (30.3) |
| 22 | | | | | | | | |
| 23 | 20.6 (1.8) | 71.2 (8.7) | -13.7 (4.4) | 129.0 (121.0) | 25.7 (0.8) | 64.4 (5.3) | -16.5 (7.7) | 83.4 (54.3) |
| 24 | 21.1 (3.0) | 62.4 (10.3) | -11.2 (5.1) | 124.0 (127.0) | 25.3 (1.2) | 60.4 (7.6) | -15.5 (5.2) | |
| 25 | 22.2 (3.2) | 60.8 (9.0) | -12.4 (4.4) | 172.0 (122.0) | 26.0 (1.6) | 58.7 (6.5) | -15.7 (6.0) | |
| 26 | 23.6 (3.5) | 63.3 (6.8) | -14.3 (1.7) | 194.0 (105.0) | 27.1 (1.7) | 59.6 (3.6) | -13.5 (8.0) | |
| 27 | 20.5 (1.4) | 79.4 (4.4) | -13.4 (2.8) | 172.0 (105.0) | 25.8 (1.0) | 68.6 (2.4) | -15.3 (8.4) | 88.4 (49.1) |
| 28 | 20.0 (0.8) | 83.5 (1.6) | -11.7 (4.4) | 101.0 (99.1) | 25.1 (0.8) | 72.8 (1.5) | -15.8 (6.3) | 72.4 (38.3) |
| 29 | 18.0 (1.4) | 58.7 (14.5) | -17.0 (4.5) | 41.4 (41.8) | 25.1 (0.5) | 58.6 (8.4) | -11.9 (2.5) | 30.8 (11.8) |
| 30 | 18.1 (2.2) | 50.9 (9.2) | -16.2 (5.7) | 77.3 (79.5) | 23.6 (2.0) | 54.6 (9.9) | -14.8 (6.2) | 45.6 (26.6) |
| Mean | 21.0 | 64.5 | -14.0 | 76.9 | 25.2 | 62.3 | -15.1 | 50.2 |
| n | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 22 |
| SD | 3.3 | 9.4 | 2.9 | 54.8 | 0.9 | 6.1 | 1.4 | 21.5 |
| Min | 13.5 | 43.9 | -19.5 | 1.8 | 23.1 | 49.4 | -17.2 | 24.0 |
| Max | 26.5 | 83.5 | -9.5 | 194.0 | 27.1 | 72.9 | -11.9 | 88.4 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for May, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 21.3 (2.7) | 54.1 (5.8) | -16.0 (3.5) | 173.0 (110.0) | 23.2 (3.4) | 55.6 (7.2) | -14.3 (10.1) | 83.3 (57.3) |
| 2 | 23.3 (3.0) | 58.7 (7.4) | -15.9 (4.8) | 206.0 (85.0) | 25.9 (1.5) | 56.9 (4.8) | -14.4 (8.9) | |
| 3 | 23.4 (3.0) | 61.2 (10.9) | -16.1 (5.7) | 238.0 (49.2) | 26.3 (1.2) | 57.6 (6.4) | -15.3 (7.7) | |
| 4 | 23.7 (2.9) | 61.0 (12.7) | -13.8 (1.2) | 259.0 (2.8) | 26.1 (1.5) | 57.2 (8.4) | -16.6 (8.2) | |
| 5 | 21.2 (1.9) | 67.5 (8.3) | -18.1 (7.2) | 206.0 (68.8) | 25.8 (0.7) | 60.2 (5.5) | -16.3 (8.8) | 83.0 (55.3) |
| 6 | 21.5 (3.0) | 60.9 (13.8) | -15.8 (3.4) | 163.0 (99.0) | 25.8 (0.8) | 56.5 (10.1) | -13.9 (6.4) | 58.7 (52.7) |
| 7 | 23.5 (3.8) | 56.3 (12.1) | -14.6 (3.2) | 198.0 (92.8) | 26.5 (1.6) | 53.5 (8.7) | -14.5 (5.9) | |
| 8 | 22.8 (1.4) | 76.7 (3.9) | -14.3 (1.1) | 259.0 (2.7) | 25.3 (0.8) | 69.8 (3.2) | -22.8 (10.3) | 103.0 (29.6) |
| 9 | 24.7 (2.3) | 69.5 (11.8) | -13.8 (1.6) | 256.0 (3.2) | 26.6 (1.3) | 65.6 (8.9) | -19.2 (11.3) | |
| 10 | 21.6 (3.0) | 65.5 (11.1) | -18.3 (7.1) | 180.0 (83.7) | 26.1 (0.8) | 59.5 (6.9) | -13.3 (6.3) | 62.9 (55.5) |
| 11 | 19.2 (0.8) | 73.7 (5.2) | -17.3 (5.0) | 104.0 (80.0) | 25.0 (0.5) | 67.1 (3.0) | -13.9 (5.3) | 37.8 (23.2) |
| 12 | 18.9 (0.7) | 65.1 (6.3) | -18.0 (4.7) | 77.9 (42.3) | 25.0 (0.4) | 62.6 (4.1) | -12.6 (2.6) | 29.6 (9.0) |
| 13 | 19.7 (1.6) | 55.0 (11.3) | -15.7 (4.0) | 129.0 (103.0) | 25.1 (0.8) | 53.6 (11.1) | -17.1 (8.1) | 53.0 (43.1) |
| 14 | 20.7 (2.2) | 56.3 (9.2) | -15.1 (2.9) | 186.0 (104.0) | 25.4 (0.9) | 54.1 (8.6) | -15.7 (9.4) | 75.0 (56.8) |
| 15 | 22.7 (2.5) | 68.9 (8.3) | -14.3 (2.9) | 235.0 (38.5) | 26.1 (0.8) | 63.2 (5.3) | -14.6 (7.4) | |
| 16 | 23.0 (3.1) | 75.2 (9.8) | -15.6 (4.6) | 242.0 (42.7) | 26.2 (1.6) | 68.6 (5.9) | -17.8 (9.3) | 81.3 (40.6) |
| 17 | 21.0 (2.3) | 54.6 (9.8) | -15.2 (3.0) | 186.0 (97.1) | 25.5 (0.8) | 52.6 (9.2) | -14.1 (7.6) | 77.9 (59.8) |
| 18 | 21.4 (2.9) | 62.6 (10.4) | -18.9 (8.0) | 181.0 (67.4) | 25.9 (0.7) | 57.4 (6.5) | -11.8 (4.2) | 56.6 (48.2) |
| 19 | 20.8 (2.0) | 59.8 (12.9) | -16.2 (6.4) | 189.0 (80.3) | 25.5 (0.8) | 54.2 (10.1) | -15.3 (8.5) | 74.3 (50.6) |
| 20 | 22.1 (3.4) | 68.0 (8.9) | -17.0 (5.3) | 208.0 (65.8) | 25.8 (1.7) | 62.1 (5.4) | -16.2 (7.3) | 71.0 (49.9) |
| 21 | 20.5 (2.1) | 63.0 (11.1) | -15.8 (4.5) | 165.0 (94.3) | 25.8 (0.6) | 57.0 (8.5) | -15.4 (7.9) | 72.9 (55.4) |
| 22 | 21.5 (2.7) | 56.1 (12.9) | -15.4 (5.4) | 167.0 (102.0) | 25.7 (0.6) | 52.8 (10.3) | -12.6 (8.1) | 67.8 (60.9) |
| 23 | 20.9 (2.2) | 62.4 (8.7) | -16.4 (4.6) | 169.0 (84.9) | 25.7 (0.6) | 56.8 (6.6) | -13.8 (7.2) | 59.9 (48.9) |
| 24 | 20.9 (2.1) | 64.7 (11.7) | -18.9 (7.1) | 174.0 (79.0) | 25.9 (0.6) | 57.3 (8.3) | -14.2 (7.9) | 75.0 (60.8) |
| 25 | 21.9 (3.1) | 59.6 (12.5) | -15.9 (4.2) | 176.0 (97.9) | 26.0 (0.8) | 54.5 (9.1) | -13.8 (6.2) | |
| 26 | 23.8 (3.8) | 58.8 (8.8) | -16.5 (4.1) | 215.0 (69.6) | 26.8 (1.6) | 54.8 (5.8) | -15.2 (8.8) | |
| 27 | 26.0 (3.7) | 65.5 (6.9) | -14.6 (1.2) | 257.0 (3.9) | 27.6 (2.4) | 61.5 (3.9) | -12.6 (6.0) | |
| 28 | 20.6 (1.7) | 76.5 (4.7) | -19.1 (8.0) | 169.0 (70.3) | 25.2 (0.6) | 68.9 (3.8) | -19.9 (10.4) | 57.5 (32.4) |
| 29 | 20.9 (2.2) | 61.1 (11.8) | -16.6 (5.2) | 162.0 (96.6) | 25.8 (0.8) | 55.8 (9.5) | -13.6 (8.2) | 76.5 (61.6) |
| 30 | 24.4 (4.0) | 68.0 (6.3) | -15.0 (2.7) | 202.0 (86.6) | 27.2 (1.6) | 63.2 (4.0) | -13.3 (7.3) | |
| 31 | 27.4 (3.2) | 74.7 (6.7) | -14.4 (1.2) | 255.0 (3.4) | 28.3 (2.6) | 70.9 (4.6) | -17.7 (11.3) | |
| Mean | 22.1 | 63.9 | -16.1 | 193.0 | 25.9 | 59.4 | -15.2 | 67.9 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 20 |
| SD | 1.9 | 6.6 | 1.5 | 43.7 | 0.9 | 5.4 | 2.3 | 16.2 |
| Min | 18.9 | 54.1 | -19.1 | 77.9 | 23.2 | 52.6 | -22.8 | 29.6 |
| Max | 27.4 | 76.7 | -13.8 | 259.0 | 28.3 | 70.9 | -11.8 | 103.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for June, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 27.3 (3.2) | 68.5 (11.4) | -13.7 (1.3) | 254.0 (2.5) | 28.3 (2.7) | 65.2 (9.5) | -16.5 (12.2) | 195.0 (67.5) |
| 2 | 24.1 (3.4) | 63.2 (15.7) | -14.5 (1.9) | 250.0 (18.5) | 27.0 (1.5) | 57.0 (10.6) | -13.0 (5.1) | 142.0 (97.2) |
| 3 | 25.1 (3.6) | 67.2 (8.7) | -14.4 (1.3) | 239.0 (33.4) | 27.8 (1.4) | 60.9 (3.1) | -9.4 (3.5) | 171.0 (103.0) |
| 4 | 29.7 (3.7) | 69.0 (7.6) | -14.3 (1.1) | 253.0 (4.0) | 29.1 (3.7) | 68.6 (8.1) | -7.7 (3.2) | 249.0 (6.7) |
| 5 | 31.4 (2.7) | 67.1 (12.7) | -15.1 (2.2) | 248.0 (5.4) | 30.8 (3.1) | 66.8 (13.6) | -10.8 (2.2) | 238.0 (5.4) |
| 6 | 31.1 (3.6) | 70.6 (12.6) | -16.9 (1.4) | 245.0 (2.7) | 30.6 (3.9) | 69.7 (13.5) | -12.8 (1.3) | 234.0 (2.7) |
| 7 | 31.5 (3.8) | 63.9 (14.0) | -16.1 (1.4) | 247.0 (2.7) | 31.2 (4.2) | 62.6 (14.9) | -13.0 (1.4) | 238.0 (2.4) |
| 8 | 31.1 (4.1) | 66.5 (11.1) | -16.6 (1.1) | 245.0 (2.9) | 30.7 (4.4) | 64.8 (11.9) | -13.9 (1.1) | 239.0 (2.9) |
| 9 | 31.5 (4.0) | 63.8 (15.4) | -16.6 (1.0) | 243.0 (3.9) | 31.2 (4.5) | 62.1 (16.2) | -13.7 (1.0) | 238.0 (2.9) |
| 10 | 31.7 (3.5) | 60.0 (11.0) | -16.1 (1.2) | 245.0 (2.4) | 31.3 (3.9) | 58.8 (11.9) | -13.4 (1.2) | 239.0 (4.3) |
| 11 | 29.8 (2.7) | 61.8 (10.4) | -16.8 (1.2) | 246.0 (3.1) | 29.3 (3.0) | 61.2 (11.0) | -13.8 (1.2) | 240.0 (6.1) |
| 12 | 28.8 (2.7) | 60.4 (11.1) | -17.3 (1.1) | 247.0 (5.1) | 28.4 (3.1) | 59.8 (12.1) | -13.5 (1.6) | 245.0 (3.3) |
| 13 | 27.0 (4.0) | 61.1 (14.2) | -17.3 (1.1) | 250.0 (3.6) | 26.6 (4.3) | 60.7 (15.1) | -14.0 (1.9) | 242.0 (12.3) |
| 14 | 27.2 (4.1) | 70.9 (10.0) | -16.8 (1.5) | 249.0 (3.1) | 26.6 (4.4) | 70.9 (10.8) | -13.6 (1.4) | 244.0 (3.1) |
| 15 | 26.7 (2.8) | 73.9 (10.6) | -16.4 (1.2) | 249.0 (3.8) | 25.9 (3.1) | 74.2 (11.3) | -13.2 (1.1) | 245.0 (3.7) |
| 16 | 28.4 (4.1) | 64.1 (16.3) | -16.8 (1.4) | 246.0 (2.4) | 27.9 (4.5) | 63.6 (17.4) | -13.4 (1.3) | 242.0 (3.1) |
| 17 | 26.6 (3.3) | 62.3 (16.0) | -16.6 (1.3) | 248.0 (2.5) | 26.0 (3.6) | 62.2 (17.0) | -10.3 (4.8) | 231.0 (21.0) |
| 18 | 23.4 (4.0) | 54.9 (14.4) | -19.5 (5.7) | | 24.0 (3.7) | 51.9 (12.9) | -10.0 (4.5) | 167.0 (97.4) |
| 19 | 23.9 (4.5) | 55.3 (13.1) | -20.0 (6.0) | | 24.9 (3.8) | 52.3 (11.6) | -10.2 (4.1) | 180.0 (93.7) |
| 20 | 25.4 (3.8) | 62.1 (13.2) | -17.4 (2.3) | 249.0 (2.8) | 25.6 (3.9) | 60.9 (12.8) | -14.9 (3.3) | 233.0 (39.2) |
| 21 | 25.1 (2.5) | 73.7 (7.5) | -18.3 (1.0) | 248.0 (2.5) | 25.3 (2.6) | 72.5 (7.5) | -14.4 (1.2) | 245.0 (1.8) |
| 22 | 26.2 (3.2) | 74.6 (11.1) | -17.5 (1.3) | 248.0 (2.7) | 26.4 (3.3) | 74.0 (11.4) | -13.9 (1.3) | 244.0 (2.6) |
| 23 | 27.3 (3.2) | 69.7 (12.1) | -17.2 (1.6) | 247.0 (2.8) | 27.6 (3.3) | 69.0 (12.5) | -14.1 (1.6) | 243.0 (3.0) |
| 24 | 27.1 (4.5) | 54.8 (16.6) | -17.3 (1.6) | 248.0 (2.9) | 27.5 (4.5) | 53.4 (16.2) | -14.2 (1.6) | 245.0 (2.4) |
| 25 | 27.7 (5.5) | 59.6 (14.6) | -17.8 (4.3) | 247.0 (3.3) | 28.1 (5.6) | 58.6 (14.6) | -15.6 (6.4) | 226.0 (42.5) |
| 26 | 30.7 (3.4) | 59.3 (16.7) | -16.7 (1.3) | 246.0 (2.5) | 30.9 (3.6) | 58.3 (16.7) | -13.4 (1.3) | 243.0 (2.6) |
| 27 | 29.8 (3.7) | 61.8 (11.0) | -17.0 (1.5) | 246.0 (3.0) | 30.1 (3.8) | 60.5 (10.9) | -13.6 (1.4) | 242.0 (3.0) |
| 28 | 30.3 (3.8) | 64.0 (13.7) | -16.8 (1.1) | 246.0 (2.7) | 30.6 (3.9) | 62.7 (13.7) | -13.8 (1.2) | 242.0 (2.6) |
| 29 | 29.5 (3.4) | 64.7 (9.7) | -17.5 (1.4) | 246.0 (2.5) | 29.7 (3.5) | 63.4 (9.9) | -14.3 (1.3) | 242.0 (2.8) |
| 30 | 26.7 (3.0) | 71.4 (12.1) | -17.8 (1.6) | 245.0 (2.5) | 26.9 (3.2) | 70.4 (12.3) | -14.8 (1.2) | 242.0 (2.5) |
| Mean | 28.1 | 64.7 | -16.8 | 247.0 | 28.2 | 63.2 | -13.1 | 229.0 |
| n | 30 | 30 | 30 | 28 | 30 | 30 | 30 | 30 |
| SD | 2.5 | 5.4 | 1.4 | 2.7 | 2.1 | 5.9 | 1.9 | 27.1 |
| Min | 23.4 | 54.8 | -20.0 | 239.0 | 24.0 | 51.9 | -16.5 | 142.0 |
| Max | 31.7 | 74.6 | -13.7 | 254.0 | 31.3 | 74.2 | -7.7 | 249.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for July, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 24.2 (2.8) | 64.0 (9.4) | -17.8 (1.1) | 249.0 (2.4) | 24.6 (2.9) | 62.3 (9.2) | -14.9 (1.2) | 245.0 (2.3) |
| 2 | 25.1 (4.1) | 60.0 (14.3) | -17.7 (1.6) | 235.0 (28.4) | 25.4 (4.3) | 58.9 (14.5) | -14.8 (1.8) | 239.0 (19.4) |
| 3 | 27.7 (3.9) | 60.2 (9.1) | -18.2 (1.2) | 247.0 (2.7) | 28.0 (4.1) | 59.3 (9.2) | -15.3 (1.2) | 242.0 (2.9) |
| 4 | 29.2 (3.5) | 64.8 (10.9) | -17.6 (1.3) | 245.0 (2.7) | 29.5 (3.7) | 63.7 (10.9) | -14.8 (1.2) | 241.0 (3.1) |
| 5 | 26.4 (2.8) | 78.8 (8.1) | -18.7 (1.3) | 245.0 (4.8) | 26.8 (2.9) | 77.4 (7.9) | -15.3 (1.3) | 235.0 (35.9) |
| 6 | 26.0 (2.3) | 80.6 (6.4) | -18.8 (1.1) | 245.0 (1.9) | 26.4 (2.4) | 79.5 (6.5) | -15.5 (1.0) | 241.0 (5.7) |
| 7 | 26.9 (2.8) | 77.0 (7.8) | -18.4 (1.0) | 246.0 (2.6) | 27.2 (2.9) | 76.0 (8.0) | -15.4 (1.0) | 242.0 (2.3) |
| 8 | 27.3 (2.2) | 79.3 (5.1) | -18.6 (1.4) | 245.0 (2.7) | 27.5 (2.3) | 78.1 (5.3) | -15.0 (1.3) | 242.0 (2.7) |
| 9 | 26.9 (2.7) | 78.8 (3.9) | -18.8 (1.0) | 245.0 (2.4) | 27.0 (2.8) | 77.9 (4.0) | -15.3 (1.0) | 242.0 (2.6) |
| 10 | 27.7 (2.6) | 75.1 (9.5) | -19.0 (1.1) | 243.0 (3.1) | 27.8 (2.7) | 74.4 (9.4) | -15.4 (0.9) | 241.0 (2.8) |
| 11 | 27.4 (2.1) | 78.3 (7.0) | -19.6 (1.0) | 243.0 (2.0) | 27.6 (2.1) | 77.6 (7.0) | -15.9 (0.9) | 240.0 (2.0) |
| 12 | 27.1 (3.5) | 70.6 (12.2) | -19.5 (1.0) | 243.0 (2.8) | 27.4 (3.5) | 70.0 (12.0) | -15.7 (0.9) | 241.0 (2.7) |
| 13 | 27.4 (4.1) | 71.4 (9.5) | -19.4 (1.1) | 242.0 (3.0) | 27.7 (4.1) | 70.6 (9.4) | -15.5 (1.1) | 239.0 (3.1) |
| 14 | 25.4 (0.9) | 82.4 (3.4) | -19.1 (0.9) | 243.0 (1.7) | 25.6 (0.9) | 81.5 (3.5) | -15.8 (1.1) | 240.0 (1.6) |
| 15 | 26.9 (3.1) | 72.0 (12.9) | -18.8 (0.8) | 244.0 (2.6) | 27.1 (3.1) | 70.9 (12.4) | -16.5 (0.7) | 240.0 (2.9) |
| 16 | 26.4 (4.2) | 68.2 (13.6) | -18.9 (0.8) | 245.0 (2.9) | 26.7 (4.2) | 67.4 (13.2) | -16.9 (0.8) | 240.0 (3.0) |
| 17 | 26.6 (4.7) | 65.6 (14.5) | -18.5 (1.3) | 245.0 (6.1) | 27.0 (4.7) | 64.7 (13.9) | -17.0 (0.9) | 240.0 (3.1) |
| 18 | 26.4 (4.3) | 73.3 (11.3) | -18.4 (2.3) | 244.0 (3.0) | 26.7 (4.5) | 72.6 (11.2) | -16.9 (1.3) | 239.0 (3.1) |
| 19 | 28.4 (3.0) | 74.7 (9.9) | -18.8 (1.1) | 243.0 (2.2) | 28.8 (3.0) | 73.6 (9.9) | -16.1 (1.0) | 238.0 (2.2) |
| 20 | 29.6 (3.4) | 73.9 (10.5) | -18.2 (1.1) | | 29.9 (3.4) | 72.9 (10.2) | -15.6 (0.8) | 237.0 (3.0) |
| 21 | 30.3 (3.4) | 68.9 (11.7) | -17.8 (1.3) | | 30.6 (3.4) | 67.8 (11.0) | -15.4 (1.1) | 236.0 (2.9) |
| 22 | 29.7 (3.5) | 68.1 (10.3) | -18.3 (1.2) | 242.0 (2.9) | 30.0 (3.4) | 67.2 (9.6) | -15.6 (1.1) | 237.0 (2.9) |
| 23 | 26.6 (2.9) | 76.5 (7.4) | -19.1 (1.2) | 244.0 (2.5) | 26.9 (2.9) | 75.6 (7.3) | -15.8 (1.1) | 240.0 (2.5) |
| 24 | 26.1 (2.5) | 76.0 (10.5) | -18.9 (1.1) | 244.0 (2.2) | 26.4 (2.5) | 75.0 (10.3) | -15.9 (1.1) | 240.0 (2.2) |
| 25 | 25.2 (3.3) | 75.9 (9.7) | -20.0 (0.9) | 245.0 (3.3) | 25.6 (3.3) | 75.1 (9.4) | -16.7 (0.9) | 241.0 (3.0) |
| 26 | 26.8 (3.7) | 71.2 (11.1) | -19.4 (1.1) | 244.0 (2.3) | 27.2 (3.6) | 70.6 (10.9) | -16.2 (1.0) | 240.0 (2.3) |
| 27 | 28.3 (3.1) | 75.7 (7.3) | -19.3 (1.1) | 241.0 (2.7) | 28.6 (3.1) | 75.1 (7.1) | -16.1 (1.1) | 237.0 (2.7) |
| 28 | 27.8 (3.2) | 74.0 (11.5) | -19.3 (1.0) | 241.0 (2.4) | 28.1 (3.2) | 73.5 (11.1) | -15.4 (1.0) | 238.0 (2.8) |
| 29 | 29.7 (3.2) | 70.6 (9.0) | -19.4 (1.0) | 240.0 (1.9) | 30.0 (3.2) | 70.3 (8.6) | -15.7 (0.9) | 237.0 (2.3) |
| 30 | 29.3 (2.5) | 77.3 (6.7) | -18.8 (1.1) | 241.0 (2.7) | 29.5 (2.6) | 76.9 (6.5) | -16.3 (1.4) | 235.0 (3.3) |
| 31 | 28.1 (2.9) | 77.6 (8.5) | -18.8 (1.3) | 240.0 (5.5) | 28.5 (3.0) | 77.4 (8.1) | -16.9 (1.3) | 234.0 (5.8) |
| Mean | 27.3 | 72.9 | -18.8 | 243.0 | 27.6 | 72.1 | -15.8 | 239.0 |
| n | 31 | 31 | 31 | 29 | 31 | 31 | 31 | 31 |
| SD | 1.5 | 5.7 | 0.6 | 2.5 | 1.5 | 5.8 | 0.6 | 2.4 |
| Min | 24.2 | 60.0 | -20.0 | 235.0 | 24.6 | 58.9 | -17.0 | 234.0 |
| Max | 30.3 | 82.4 | -17.6 | 249.0 | 30.6 | 81.5 | -14.8 | 245.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for August, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 28.8 (3.1) | 73.6 (11.1) | -19.1 (1.1) | 240.0 (2.9) | 29.2 (3.1) | 73.4 (10.6) | -16.8 (1.0) | 234.0 (3.0) |
| 2 | 29.5 (3.3) | 68.4 (10.4) | -18.8 (1.1) | 240.0 (2.5) | 30.0 (3.2) | 67.7 (9.7) | -16.2 (1.1) | 235.0 (2.3) |
| 3 | 27.9 (2.9) | 66.3 (11.8) | -19.7 (1.1) | 241.0 (1.9) | 28.5 (2.9) | 66.1 (11.2) | -16.8 (0.9) | 236.0 (2.1) |
| 4 | 28.2 (4.3) | 72.0 (12.0) | -20.0 (1.2) | 240.0 (3.3) | 28.8 (4.1) | 71.7 (11.3) | -17.2 (1.0) | 235.0 (3.2) |
| 5 | 29.0 (3.0) | 72.4 (10.7) | -19.7 (1.2) | 240.0 (2.9) | 29.4 (2.9) | 72.1 (10.0) | -15.8 (1.6) | 236.0 (4.3) |
| 6 | 29.6 (3.3) | 69.6 (9.3) | -19.2 (1.0) | 239.0 (3.2) | 30.0 (3.2) | 69.3 (8.9) | -14.2 (0.9) | 237.0 (2.8) |
| 7 | 28.4 (2.1) | 70.2 (6.0) | -19.4 (1.4) | 238.0 (3.1) | 28.7 (2.1) | 69.9 (5.9) | -14.9 (1.0) | 238.0 (2.5) |
| 8 | 27.0 (3.0) | 65.8 (13.9) | -19.8 (1.1) | 241.0 (2.4) | 27.4 (2.9) | 65.7 (13.7) | -14.7 (0.9) | 239.0 (2.4) |
| 9 | 25.8 (3.5) | 64.6 (12.2) | -20.5 (1.1) | 242.0 (2.6) | 26.2 (3.5) | 64.7 (11.9) | -15.3 (1.0) | 240.0 (2.6) |
| 10 | 24.7 (2.4) | 77.8 (7.1) | -20.5 (1.1) | 242.0 (2.4) | 25.0 (2.4) | 78.0 (6.8) | -15.3 (1.2) | 240.0 (2.8) |
| 11 | 24.6 (3.0) | 67.2 (15.8) | -20.3 (1.4) | 242.0 (2.4) | 24.9 (3.0) | 67.4 (15.5) | -15.0 (1.4) | 241.0 (2.2) |
| 12 | 23.9 (4.2) | 63.4 (11.3) | | | 24.4 (4.0) | 64.1 (10.9) | -15.1 (2.3) | 234.0 (18.1) |
| 13 | 23.3 (1.1) | 80.5 (3.1) | -21.2 (0.9) | 242.0 (1.9) | 23.7 (1.1) | 80.6 (3.1) | -15.9 (0.9) | 240.0 (1.8) |
| 14 | 24.2 (3.3) | 74.1 (9.5) | -19.6 (2.1) | 228.0 (28.9) | 24.5 (3.5) | 75.0 (9.5) | -15.2 (2.3) | 236.0 (16.1) |
| 15 | 24.5 (3.4) | 77.9 (8.5) | -20.9 (1.2) | 242.0 (2.3) | 25.0 (3.5) | 78.3 (8.2) | -16.0 (1.2) | 240.0 (2.3) |
| 16 | 25.1 (3.3) | 74.6 (11.3) | -20.8 (1.0) | 242.0 (2.5) | 25.6 (3.3) | 74.9 (10.8) | -16.0 (1.0) | 239.0 (2.6) |
| 17 | 25.2 (3.4) | 74.8 (9.2) | -21.0 (1.0) | 242.0 (2.7) | 25.7 (3.4) | 75.2 (8.8) | -16.5 (0.9) | 238.0 (2.5) |
| 18 | 26.2 (3.9) | 69.6 (13.3) | -20.9 (0.9) | 241.0 (3.0) | 26.7 (3.7) | 70.4 (12.6) | -16.5 (0.9) | 237.0 (2.9) |
| 19 | 27.4 (4.0) | 68.7 (14.1) | -20.6 (1.2) | 240.0 (2.7) | 27.9 (3.9) | 69.1 (13.4) | -16.2 (1.1) | 236.0 (2.4) |
| 20 | 26.9 (3.4) | 75.0 (7.7) | -20.6 (0.9) | 241.0 (2.7) | 27.4 (3.3) | 75.1 (7.3) | -16.5 (0.8) | 237.0 (2.6) |
| 21 | 26.1 (3.1) | 68.1 (10.9) | -21.2 (1.0) | 243.0 (2.3) | 26.5 (3.1) | 68.7 (10.5) | -16.9 (0.8) | 239.0 (2.2) |
| 22 | 25.6 (3.7) | 68.6 (9.5) | -21.4 (1.3) | 243.0 (2.6) | 26.0 (3.7) | 69.1 (9.2) | -17.1 (1.0) | 239.0 (2.5) |
| 23 | 26.5 (3.1) | 71.0 (11.0) | -21.1 (1.1) | 242.0 (2.4) | 27.0 (3.1) | 71.3 (10.5) | -16.6 (0.9) | 239.0 (2.5) |
| 24 | 26.6 (3.8) | 70.1 (12.2) | -20.9 (0.9) | 241.0 (3.0) | 27.2 (3.7) | 70.4 (11.7) | -16.4 (0.9) | 237.0 (2.8) |
| 25 | 27.9 (2.7) | 71.4 (9.8) | -20.6 (1.1) | 239.0 (1.9) | 28.4 (2.7) | 71.5 (9.3) | -16.3 (1.0) | 236.0 (2.0) |
| 26 | 26.5 (1.7) | 79.1 (3.5) | -20.8 (0.7) | 240.0 (1.9) | 26.9 (1.7) | 79.1 (3.5) | -16.3 (0.7) | 237.0 (1.6) |
| 27 | 25.1 (1.6) | 84.9 (0.6) | -20.7 (0.9) | 243.0 (2.0) | 25.4 (1.6) | 85.2 (0.5) | -16.8 (0.8) | 238.0 (1.7) |
| 28 | 27.6 (1.5) | 83.0 (3.8) | -20.3 (1.0) | 239.0 (3.1) | 28.1 (1.5) | 82.9 (3.6) | -16.4 (0.9) | 235.0 (1.9) |
| 29 | 28.0 (2.3) | 78.9 (6.9) | -19.6 (0.9) | 240.0 (2.5) | 28.4 (2.2) | 78.8 (6.7) | -16.5 (0.9) | 234.0 (2.6) |
| 30 | 27.8 (2.6) | 78.6 (7.1) | -19.8 (0.9) | 240.0 (2.3) | 28.3 (2.6) | 78.5 (6.5) | -16.5 (1.0) | 235.0 (2.1) |
| 31 | 26.9 (3.2) | 76.9 (7.4) | -20.2 (1.0) | 242.0 (2.7) | 27.4 (3.1) | 77.1 (6.8) | -17.0 (0.9) | 236.0 (2.7) |
| Mean | 26.6 | 72.8 | -20.3 | 240.0 | 27.1 | 72.9 | -16.1 | 237.0 |
| n | 31 | 31 | 30 | 30 | 31 | 31 | 31 | 31 |
| SD | 1.7 | 5.4 | 0.7 | 2.6 | 1.7 | 5.4 | 0.8 | 2.1 |
| Min | 23.3 | 63.4 | -21.4 | 228.0 | 23.7 | 64.1 | -17.2 | 234.0 |
| Max | 29.6 | 84.9 | -18.8 | 243.0 | 30.0 | 85.2 | -14.2 | 241.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for September, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 25.0 (3.5) | 68.7 (15.1) | -21.0 (0.8) | 244.0 (2.8) | 25.5 (3.4) | 68.9 (13.7) | -17.4 (0.9) | 238.0 (2.5) |
| 2 | 24.8 (4.2) | 68.1 (13.7) | -20.4 (1.3) | 242.0 (2.8) | 25.3 (4.1) | 68.4 (12.9) | -15.9 (2.4) | 224.0 (27.9) |
| 3 | 25.9 (4.7) | 68.2 (12.8) | -20.1 (1.7) | 241.0 (3.1) | 26.4 (4.6) | 68.4 (12.0) | -16.5 (1.1) | 237.0 (2.8) |
| 4 | 26.5 (4.4) | 67.6 (11.9) | -21.0 (1.0) | 241.0 (2.8) | 27.1 (4.3) | 67.6 (11.0) | -16.1 (1.1) | 237.0 (2.8) |
| 5 | 25.2 (3.0) | 81.4 (5.0) | -21.0 (0.9) | 241.0 (3.0) | 25.7 (2.9) | 80.9 (4.7) | -16.4 (0.8) | 237.0 (2.5) |
| 6 | 27.3 (1.5) | 81.5 (5.9) | -19.4 (1.6) | 240.0 (3.6) | 27.6 (1.5) | 81.1 (5.8) | -15.5 (1.6) | 236.0 (4.6) |
| 7 | 26.9 (3.0) | 75.3 (9.9) | -20.5 (0.8) | 240.0 (2.4) | 27.5 (2.9) | 74.6 (9.1) | -15.9 (1.0) | 236.0 (2.2) |
| 8 | 26.6 (3.8) | 76.7 (9.9) | -21.1 (0.8) | 241.0 (3.2) | 27.2 (3.7) | 76.4 (9.0) | -16.3 (0.7) | 237.0 (3.1) |
| 9 | 27.1 (1.9) | 80.3 (5.5) | -20.7 (1.0) | 241.0 (1.8) | 27.6 (1.9) | 79.7 (5.1) | -16.0 (1.0) | 237.0 (2.0) |
| 10 | 24.1 (0.9) | 85.5 (1.0) | -20.8 (0.7) | 243.0 (1.7) | 24.5 (0.9) | 84.9 (1.0) | -16.3 (0.7) | 239.0 (1.9) |
| 11 | 24.8 (2.3) | 82.4 (5.1) | -21.0 (0.7) | 243.0 (2.5) | 25.3 (2.3) | 82.3 (4.7) | -16.3 (0.7) | 240.0 (2.4) |
| 12 | 26.4 (2.6) | 80.5 (5.2) | -20.9 (1.0) | 241.0 (2.4) | 26.9 (2.6) | 80.8 (5.0) | -16.0 (1.1) | 237.0 (2.2) |
| 13 | 29.2 (2.7) | 77.1 (7.2) | -19.7 (2.1) | 239.0 (3.6) | 29.5 (2.7) | 77.8 (6.9) | -15.2 (3.7) | 234.0 (17.9) |
| 14 | 29.6 (2.2) | 74.3 (7.3) | -20.1 (1.0) | 239.0 (2.0) | 29.9 (2.2) | 75.1 (6.9) | -14.9 (1.1) | 235.0 (2.1) |
| 15 | 28.2 (1.5) | 72.1 (7.4) | -20.1 (1.5) | 234.0 (28.2) | 28.5 (1.4) | 72.8 (7.1) | -15.4 (2.3) | 231.0 (17.6) |
| 16 | 23.0 (1.1) | 76.0 (5.1) | -19.5 (5.3) | | 23.1 (1.3) | 77.2 (5.5) | -18.2 (8.5) | 204.0 (52.1) |
| 17 | 21.9 (1.4) | 72.6 (6.4) | -22.6 (5.3) | 161.0 (73.2) | 22.2 (1.3) | 73.4 (6.0) | -22.4 (10.4) | 167.0 (69.9) |
| 18 | 23.0 (2.8) | 67.1 (10.0) | -20.1 (5.2) | 154.0 (84.8) | 23.2 (3.0) | 67.6 (9.7) | -19.0 (8.6) | 161.0 (77.9) |
| 19 | 21.9 (1.7) | 67.9 (6.9) | -20.6 (5.2) | 149.0 (80.4) | 22.2 (1.7) | 68.1 (6.2) | -18.0 (6.7) | 155.0 (77.5) |
| 20 | 21.5 (1.6) | 71.2 (2.9) | -21.1 (6.7) | 145.0 (81.3) | 21.9 (1.6) | 71.4 (2.4) | -17.9 (7.5) | 152.0 (80.9) |
| 21 | 22.5 (2.0) | 73.0 (4.9) | -21.1 (4.7) | 170.0 (73.4) | 22.8 (2.1) | 73.2 (4.8) | -21.1 (8.1) | 182.0 (66.7) |
| 22 | 23.2 (2.1) | 69.8 (6.6) | -21.8 (5.6) | 169.0 (70.6) | 23.5 (2.1) | 70.2 (6.3) | -20.2 (8.6) | 179.0 (62.4) |
| 23 | 22.1 (1.8) | 69.0 (7.1) | -21.4 (6.7) | 151.0 (76.1) | 22.3 (1.8) | 69.4 (6.7) | -20.2 (7.0) | 162.0 (73.0) |
| 24 | 21.4 (1.1) | 63.2 (5.5) | -20.6 (5.4) | 122.0 (72.9) | 21.3 (1.2) | 64.2 (5.5) | -21.3 (9.5) | 131.0 (69.2) |
| 25 | 21.5 (0.7) | 73.4 (5.9) | -23.4 (6.1) | 111.0 (42.3) | 21.7 (1.0) | 73.2 (5.3) | -25.3 (7.8) | 118.0 (28.4) |
| 26 | 24.9 (1.7) | 82.7 (4.0) | -21.4 (3.5) | 228.0 (36.5) | 25.3 (1.7) | 82.2 (3.7) | -17.8 (1.3) | 224.0 (25.2) |
| 27 | 24.6 (1.8) | 79.9 (8.0) | -21.6 (1.1) | 238.0 (2.3) | 25.2 (1.8) | 79.3 (7.6) | -18.0 (1.0) | 234.0 (2.2) |
| 28 | 24.4 (1.8) | 80.5 (5.5) | -19.8 (3.7) | 222.0 (28.1) | 24.7 (2.0) | 80.5 (5.6) | -18.0 (1.0) | 234.0 (2.4) |
| 29 | 24.5 (1.9) | 77.0 (6.7) | -20.6 (3.9) | 199.0 (65.1) | 25.0 (1.9) | 76.7 (6.4) | -19.7 (6.6) | 204.0 (59.7) |
| 30 | 24.3 (1.3) | 78.3 (1.9) | -20.4 (6.1) | 136.0 (64.9) | 24.5 (1.3) | 77.8 (1.9) | -24.0 (10.9) | 143.0 (66.0) |
| Mean | 24.7 | 74.7 | -20.8 | 206.0 | 25.1 | 74.8 | -18.0 | 206.0 |
| n | 30 | 30 | 30 | 29 | 30 | 30 | 30 | 30 |
| SD | 2.3 | 5.7 | 0.8 | 44.8 | 2.3 | 5.4 | 2.6 | 38.7 |
| Min | 21.4 | 63.2 | -23.4 | 111.0 | 21.3 | 64.2 | -25.3 | 118.0 |
| Max | 29.6 | 85.5 | -19.4 | 244.0 | 29.9 | 84.9 | -14.9 | 240.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for October, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 23.8 (1.0) | 72.3 (5.6) | -18.0 (5.0) | 96.1 (45.8) | 23.7 (1.0) | 72.7 (5.0) | -22.1 (11.6) | 102.0 (46.9) |
| 2 | 22.9 (0.8) | 62.6 (8.8) | -17.2 (4.7) | 57.5 (39.8) | 23.0 (1.0) | 63.4 (8.1) | -16.1 (7.4) | 57.6 (38.7) |
| 3 | 23.0 (1.6) | 63.3 (8.4) | -16.3 (4.9) | 81.1 (67.0) | 23.0 (1.5) | 63.9 (7.5) | -15.5 (6.6) | 89.6 (79.2) |
| 4 | 23.7 (1.4) | 63.9 (7.8) | -18.8 (4.4) | 104.0 (90.2) | 23.8 (1.6) | 64.3 (7.6) | -17.1 (7.1) | 105.0 (88.7) |
| 5 | 24.3 (1.7) | 66.6 (6.1) | -19.0 (5.0) | 113.0 (90.2) | 24.7 (1.8) | 66.7 (5.9) | -17.1 (7.6) | 113.0 (88.7) |
| 6 | 24.8 (1.7) | 66.8 (4.8) | -18.3 (4.9) | 109.0 (88.3) | 25.0 (1.7) | 66.8 (4.7) | -17.2 (6.3) | 110.0 (87.9) |
| 7 | 24.5 (0.7) | 62.8 (7.4) | -17.9 (4.7) | 54.3 (33.7) | 24.5 (0.7) | 63.0 (6.9) | -18.4 (8.5) | 57.7 (38.4) |
| 8 | 24.3 (1.6) | 63.7 (7.5) | -17.5 (5.9) | 72.5 (50.2) | 24.3 (1.7) | 64.2 (6.9) | -18.1 (9.4) | 77.2 (59.8) |
| 9 | 25.6 (0.9) | 72.2 (3.6) | -19.3 (5.6) | 116.0 (71.8) | 25.6 (1.2) | 71.8 (3.3) | -21.3 (8.2) | 125.0 (70.8) |
| 10 | 25.4 (0.8) | 74.6 (2.1) | -17.5 (7.8) | 87.9 (40.6) | 25.2 (0.9) | 74.2 (2.0) | -23.6 (10.4) | 94.9 (41.4) |
| 11 | 25.0 (0.6) | 67.6 (5.1) | -17.1 (6.0) | 70.9 (34.1) | 24.9 (0.7) | 67.9 (5.1) | -21.3 (8.2) | 74.9 (33.9) |
| 12 | 25.2 (1.0) | 66.3 (3.9) | -18.7 (6.0) | 89.3 (75.3) | 25.3 (0.9) | 66.4 (3.5) | -17.7 (7.8) | 94.4 (82.4) |
| 13 | 24.9 (1.1) | 66.5 (5.3) | -18.1 (5.5) | 77.6 (68.8) | 24.9 (1.1) | 66.5 (4.6) | -16.2 (7.6) | 82.5 (73.2) |
| 14 | 25.2 (2.1) | 63.1 (8.8) | -18.6 (5.3) | 97.4 (88.7) | 25.3 (2.2) | 63.1 (8.3) | -16.1 (5.8) | 98.7 (87.1) |
| 15 | 26.2 (2.2) | 64.6 (8.1) | -18.7 (6.0) | 112.0 (90.2) | 26.3 (2.3) | 64.5 (7.6) | -18.3 (7.2) | 115.0 (87.8) |
| 16 | 26.3 (2.0) | 65.6 (7.4) | -20.5 (5.4) | 131.0 (86.6) | 26.6 (1.9) | 65.1 (6.9) | -20.4 (10.0) | 131.0 (85.5) |
| 17 | 24.2 (0.5) | 70.5 (3.0) | -17.9 (4.5) | 51.0 (25.0) | 24.4 (0.6) | 70.1 (2.5) | -18.1 (8.3) | 51.1 (25.2) |
| 18 | 23.6 (0.5) | 67.2 (3.1) | -19.3 (4.6) | 31.1 (15.3) | 23.8 (0.7) | 67.1 (2.6) | -14.5 (3.8) | 31.5 (14.8) |
| 19 | 21.8 (2.2) | 61.8 (5.7) | -19.5 (4.6) | 31.6 (14.9) | 21.9 (2.3) | 62.5 (3.9) | -14.5 (3.8) | 31.8 (13.1) |
| 20 | 20.2 (3.7) | 62.8 (9.2) | -18.7 (6.3) | 34.6 (16.5) | 20.4 (3.6) | 62.7 (8.1) | -15.4 (6.0) | 36.4 (20.0) |
| 21 | 22.8 (2.6) | 61.7 (8.2) | -18.6 (7.3) | 47.3 (36.3) | 22.8 (2.4) | 62.1 (7.4) | -17.8 (8.5) | 49.8 (36.9) |
| 22 | 21.6 (2.2) | 62.4 (6.6) | -20.6 (6.9) | 29.8 (14.8) | 22.0 (2.2) | 63.2 (4.7) | -15.1 (5.5) | 29.3 (11.6) |
| 23 | 21.7 (2.7) | 65.2 (5.4) | -20.8 (7.0) | 30.4 (14.3) | 22.0 (2.6) | 65.2 (4.7) | -15.9 (5.8) | 32.0 (14.8) |
| 24 | 23.7 (0.9) | 68.5 (2.3) | -17.6 (5.8) | 35.2 (14.9) | 24.0 (1.0) | 68.2 (2.3) | -14.5 (5.7) | 37.7 (19.6) |
| 25 | 25.1 (0.6) | 76.6 (2.6) | -18.9 (6.2) | 67.3 (39.3) | 25.0 (0.7) | 75.7 (2.4) | -19.4 (9.8) | 73.9 (43.2) |
| 26 | 23.6 (1.0) | 66.3 (7.3) | -19.4 (6.3) | 40.0 (24.8) | 23.7 (1.0) | 66.1 (6.7) | -16.7 (8.0) | 41.3 (24.0) |
| 27 | 21.8 (2.0) | 68.7 (4.3) | -20.0 (7.0) | 29.5 (14.9) | 22.0 (2.1) | 68.6 (3.2) | -13.5 (5.7) | 28.9 (11.7) |
| 28 | 19.9 (2.7) | 66.5 (5.0) | -21.2 (7.4) | 26.0 (11.0) | 19.7 (2.5) | 65.6 (4.6) | -13.9 (6.0) | 27.6 (11.1) |
| 29 | 20.1 (2.5) | 64.8 (4.3) | -21.2 (7.1) | 25.4 (10.6) | 20.1 (2.4) | 64.1 (4.1) | -14.2 (5.8) | 27.2 (11.2) |
| 30 | 18.8 (3.6) | 65.8 (6.6) | -21.6 (7.4) | 26.7 (11.6) | 19.1 (3.5) | 65.5 (5.8) | -14.9 (6.0) | 27.9 (11.4) |
| 31 | 19.6 (4.0) | 62.4 (11.4) | -20.1 (7.4) | 32.4 (16.2) | 20.0 (3.8) | 62.6 (10.4) | -15.2 (5.9) | 35.3 (18.5) |
| Mean | 23.3 | 66.3 | -18.9 | 64.8 | 23.5 | 66.2 | -17.1 | 67.4 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 2.0 | 3.7 | 1.3 | 32.8 | 2.0 | 3.5 | 2.5 | 33.8 |
| Min | 18.8 | 61.7 | -21.6 | 25.4 | 19.1 | 62.1 | -23.6 | 27.2 |
| Max | 26.3 | 76.6 | -16.3 | 131.0 | 26.6 | 75.7 | -13.5 | 131.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for November, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 21.7 (3.3) | 60.5 (12.0) | -20.4 (7.5) | 47.7 (38.6) | 22.2 (2.9) | 60.6 (11.0) | -18.0 (9.5) | 51.2 (41.8) |
| 2 | 23.0 (2.8) | 61.0 (11.4) | -19.6 (7.4) | 52.9 (42.4) | 23.3 (2.4) | 61.0 (10.6) | -18.3 (8.9) | 56.5 (45.1) |
| 3 | 24.4 (0.4) | 70.9 (2.0) | -19.2 (4.9) | 39.2 (15.9) | 24.6 (0.4) | 70.4 (1.9) | -15.5 (4.8) | 40.9 (17.3) |
| 4 | 24.6 (0.3) | 73.6 (1.5) | -19.6 (3.9) | 40.1 (11.0) | 24.6 (0.5) | 73.5 (1.8) | -17.3 (5.4) | 45.2 (20.8) |
| 5 | 24.5 (0.3) | 69.7 (3.5) | -17.2 (4.7) | 45.7 (16.2) | 24.7 (0.4) | 69.7 (3.3) | -16.0 (5.0) | 48.1 (20.0) |
| 6 | 24.9 (0.8) | 62.5 (6.2) | -17.9 (5.6) | 63.9 (42.0) | 25.1 (0.8) | 62.9 (5.8) | -17.6 (8.3) | 68.0 (44.1) |
| 7 | 25.2 (0.8) | 66.0 (5.4) | -17.5 (6.1) | 66.1 (53.6) | 25.4 (0.7) | 66.2 (4.9) | -15.9 (7.8) | 69.1 (58.5) |
| 8 | 24.1 (0.7) | 66.5 (3.6) | -17.2 (5.2) | 44.7 (20.3) | 24.3 (0.8) | 66.1 (3.5) | -16.9 (9.7) | 48.7 (27.2) |
| 9 | 22.0 (2.1) | 64.0 (7.7) | -19.4 (7.2) | 31.6 (15.8) | 22.0 (2.1) | 63.8 (6.0) | -13.2 (5.8) | 32.6 (15.7) |
| 10 | 20.3 (2.8) | 65.0 (5.8) | -20.1 (7.3) | 27.3 (10.7) | 20.6 (2.8) | 64.6 (5.0) | -13.3 (6.2) | 29.1 (11.7) |
| 11 | 20.5 (3.1) | 66.4 (5.4) | -19.9 (5.9) | 24.9 (10.9) | 21.0 (3.1) | 66.0 (4.2) | -13.8 (5.4) | 26.4 (11.7) |
| 12 | 23.2 (1.3) | 64.8 (7.1) | -18.6 (4.5) | 27.5 (13.0) | 23.6 (1.2) | 65.4 (5.5) | -13.1 (3.9) | 27.2 (12.8) |
| 13 | 24.5 (0.4) | 71.8 (2.8) | -17.4 (4.4) | 34.2 (16.1) | 25.0 (0.4) | 71.7 (2.5) | -13.5 (6.2) | 34.4 (19.7) |
| 14 | 24.8 (0.3) | 74.7 (2.3) | -16.1 (4.5) | 41.1 (13.9) | 25.1 (0.7) | 74.8 (2.3) | -13.2 (6.3) | 41.3 (19.1) |
| 15 | 25.1 (0.7) | 75.2 (4.6) | -21.3 (7.5) | 88.5 (46.2) | 25.2 (0.6) | 75.4 (4.0) | -25.5 (11.9) | 97.1 (63.1) |
| 16 | 23.1 (1.1) | 67.2 (6.2) | -18.3 (4.4) | 22.6 (10.5) | 23.4 (0.8) | 66.7 (4.9) | -12.6 (4.2) | 23.0 (9.9) |
| 17 | 22.0 (1.4) | 70.2 (6.5) | -18.6 (4.2) | 20.7 (9.6) | 22.1 (1.3) | 68.7 (4.6) | -12.9 (3.9) | 22.6 (9.9) |
| 18 | 20.7 (0.8) | 72.3 (5.6) | -20.7 (4.7) | 19.4 (8.7) | 20.5 (0.8) | 69.7 (4.7) | -13.5 (4.1) | 21.2 (9.4) |
| 19 | 19.7 (1.6) | 71.6 (6.6) | -20.9 (4.4) | 20.0 (9.3) | 19.5 (1.7) | 69.9 (5.1) | -13.5 (3.9) | 21.4 (9.7) |
| 20 | 21.7 (1.6) | 66.8 (6.3) | -19.7 (4.7) | 22.1 (10.8) | 21.7 (1.6) | 66.1 (4.7) | -12.7 (4.1) | 23.0 (10.1) |
| 21 | 20.9 (1.0) | 70.5 (4.4) | -20.8 (4.0) | 19.9 (9.1) | 21.1 (1.2) | 69.6 (3.9) | -13.8 (3.6) | 20.7 (8.7) |
| 22 | 19.4 (2.1) | 74.1 (5.6) | -21.0 (3.5) | 18.4 (7.9) | 19.1 (2.1) | 72.6 (4.8) | -13.3 (2.8) | 19.7 (8.0) |
| 23 | 21.3 (1.2) | 73.5 (8.0) | -19.6 (3.1) | 17.9 (6.3) | 20.7 (1.5) | 72.7 (5.6) | -13.1 (2.6) | 19.6 (6.7) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | 21.1 (2.3) | 72.3 (8.3) | -19.5 (4.0) | 22.0 (10.2) | 20.6 (2.6) | 72.8 (5.4) | -13.6 (3.1) | 22.3 (8.7) |
| 28 | 22.5 (1.3) | 68.1 (9.8) | -18.5 (4.0) | 26.2 (17.4) | 21.8 (1.5) | 68.7 (8.1) | -13.6 (4.3) | 28.8 (19.7) |
| 29 | 22.8 (0.4) | 70.3 (3.0) | -19.7 (3.4) | 20.0 (9.0) | 22.2 (0.9) | 70.6 (2.2) | -14.6 (3.3) | 22.1 (8.1) |
| 30 | 23.5 (0.7) | 75.8 (1.9) | -17.9 (3.2) | 22.8 (7.8) | 23.1 (1.2) | 75.0 (1.6) | -13.2 (3.4) | 24.7 (7.2) |
| Mean | 22.7 | 69.1 | -19.1 | 34.4 | 22.7 | 68.7 | -14.9 | 36.5 |
| n | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| SD | 1.8 | 4.3 | 1.3 | 17.3 | 1.9 | 4.1 | 2.7 | 18.7 |
| Min | 19.4 | 60.5 | -21.3 | 17.9 | 19.1 | 60.6 | -25.5 | 19.6 |
| Max | 25.2 | 75.8 | -16.1 | 88.5 | 25.4 | 75.4 | -12.6 | 97.1 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for December, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 23.1 (0.6) | 72.3 (3.8) | -20.0 (4.1) | 21.9 (11.2) | 22.7 (0.9) | 71.9 (2.6) | -12.8 (3.3) | 22.4 (7.0) |
| 2 | 21.9 (1.0) | 75.2 (4.1) | -19.1 (3.4) | 17.7 (6.8) | 21.2 (1.2) | 74.1 (3.8) | -13.0 (3.0) | 19.2 (7.0) |
| 3 | 21.6 (1.5) | 76.8 (6.2) | -18.4 (2.6) | 17.5 (6.7) | 20.8 (1.9) | 76.0 (4.9) | -13.1 (2.7) | 18.8 (5.8) |
| 4 | 22.6 (1.3) | 72.0 (5.6) | -18.7 (3.8) | 22.3 (10.3) | 21.8 (1.6) | 72.2 (4.2) | -12.2 (3.1) | 23.5 (10.5) |
| 5 | 22.7 (0.9) | 73.2 (4.4) | -18.7 (3.4) | 19.7 (8.2) | 21.8 (1.4) | 73.1 (3.6) | -12.9 (2.7) | 21.2 (6.7) |
| 6 | 21.7 (1.1) | 76.6 (4.4) | -18.7 (3.6) | 18.0 (8.0) | 20.5 (1.6) | 76.3 (3.4) | -13.2 (2.8) | 19.7 (6.6) |
| 7 | 21.4 (0.8) | 76.3 (4.4) | -19.9 (3.5) | 17.2 (6.7) | 20.4 (1.4) | 75.0 (3.6) | -13.6 (3.2) | 18.6 (6.5) |
| 8 | 20.4 (1.4) | 78.3 (4.6) | -20.0 (2.3) | 15.6 (4.6) | 19.4 (1.8) | 77.1 (4.3) | -14.0 (2.3) | 17.7 (6.0) |
| 9 | 22.2 (2.6) | 72.9 (5.4) | -16.2 (2.9) | 30.9 (16.9) | 22.1 (2.2) | 74.3 (4.2) | -12.3 (4.8) | 31.2 (20.3) |
| 10 | 24.6 (0.4) | 75.6 (2.6) | -20.2 (6.8) | 72.8 (27.6) | 24.2 (0.8) | 75.8 (2.3) | -23.2 (11.6) | 72.2 (29.2) |
| 11 | 24.7 (0.5) | 79.6 (2.5) | -19.5 (7.5) | 66.1 (28.9) | 24.2 (0.7) | 79.1 (2.1) | -21.6 (10.5) | 71.2 (30.0) |
| 12 | 24.3 (1.0) | 73.2 (3.8) | -17.9 (4.7) | 23.1 (10.5) | 23.6 (1.0) | 72.2 (3.4) | -11.8 (3.3) | 25.5 (11.0) |
| 13 | 22.3 (0.9) | 76.7 (4.8) | -19.0 (3.3) | 16.7 (6.0) | 21.1 (1.2) | 74.1 (3.7) | -13.5 (2.6) | 18.8 (6.1) |
| 14 | 23.3 (1.4) | 76.3 (4.2) | -18.1 (3.3) | 19.7 (7.9) | 22.2 (1.6) | 74.5 (3.1) | -12.9 (2.6) | 22.1 (6.9) |
| 15 | 24.9 (0.6) | 73.4 (4.5) | -17.5 (4.7) | 44.5 (29.1) | 24.4 (0.8) | 72.4 (4.3) | -15.4 (7.4) | 47.8 (30.7) |
| 16 | 24.9 (0.7) | 77.8 (1.8) | -18.0 (4.1) | 24.8 (15.9) | 24.3 (0.6) | 76.4 (1.8) | -14.8 (4.7) | 28.9 (17.5) |
| 17 | 24.7 (0.7) | 77.4 (1.5) | -17.5 (4.1) | 26.8 (11.9) | 24.4 (0.9) | 76.0 (1.5) | -13.2 (3.5) | 29.4 (15.0) |
| 18 | 25.1 (0.3) | 76.5 (1.0) | -16.9 (2.7) | 25.6 (6.9) | 25.1 (0.3) | 75.4 (1.1) | -13.1 (2.0) | 27.4 (5.9) |
| 19 | 25.0 (0.5) | 74.1 (2.7) | -15.7 (3.6) | 43.6 (24.5) | 24.9 (0.6) | 73.2 (2.3) | -17.1 (9.5) | 47.6 (28.1) |
| 20 | 25.0 (0.7) | 74.7 (1.4) | -15.9 (3.2) | 28.2 (10.6) | 24.5 (0.6) | 74.4 (1.8) | -12.5 (4.4) | 33.1 (18.9) |
| 21 | 23.6 (1.0) | 73.7 (2.7) | -17.1 (3.6) | 20.6 (9.0) | 23.6 (1.1) | 73.2 (2.6) | -10.8 (3.6) | 20.9 (7.8) |
| 22 | 20.3 (1.4) | 77.4 (2.9) | -18.9 (2.0) | 14.6 (1.9) | 20.3 (1.1) | 76.4 (2.4) | -12.8 (1.8) | 15.6 (1.6) |
| 23 | 19.9 (2.3) | 79.9 (2.5) | -17.9 (2.9) | 15.4 (4.4) | 20.1 (2.1) | 77.7 (2.9) | -12.2 (2.7) | 15.9 (2.6) |
| 24 | 23.5 (1.7) | 74.5 (3.8) | -13.7 (4.1) | 33.2 (20.5) | 23.3 (1.4) | 73.2 (3.8) | -13.0 (6.6) | 40.0 (28.1) |
| 25 | 24.2 (0.7) | 70.6 (6.5) | -15.0 (4.1) | 33.7 (18.3) | 24.2 (0.7) | 69.9 (6.2) | -11.1 (5.5) | 37.2 (21.9) |
| 26 | 23.3 (0.7) | 76.4 (1.5) | -17.1 (3.3) | 17.9 (6.5) | 23.5 (0.9) | 75.5 (1.5) | -9.7 (3.4) | 17.8 (5.1) |
| 27 | 24.5 (0.7) | 76.0 (1.8) | -15.4 (3.1) | 25.3 (13.4) | 24.5 (0.7) | 75.1 (1.4) | -8.9 (2.8) | 26.4 (6.9) |
| 28 | 25.1 (0.5) | 73.4 (3.6) | -18.9 (7.2) | 72.0 (39.4) | 25.3 (0.5) | 72.6 (3.4) | -17.4 (8.2) | 73.1 (38.2) |
| 29 | 24.3 (0.8) | 70.1 (5.6) | -15.5 (2.8) | 22.8 (8.5) | 24.5 (0.8) | 69.9 (5.3) | -9.1 (2.7) | 22.8 (7.5) |
| 30 | 23.5 (0.7) | 67.5 (7.3) | -16.9 (3.9) | 22.0 (12.8) | 23.6 (0.8) | 68.5 (5.5) | -9.5 (2.8) | 20.7 (6.7) |
| 31 | 23.0 (1.2) | 68.9 (4.8) | -17.7 (3.8) | 20.2 (8.4) | 23.1 (1.5) | 69.8 (4.1) | -9.5 (3.7) | 17.1 (4.5) |
| Mean | 23.3 | 74.8 | -17.7 | 28.1 | 22.9 | 74.0 | -13.2 | 29.8 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1.5 | 2.9 | 1.6 | 15.6 | 1.7 | 2.4 | 3.1 | 16.2 |
| Min | 19.9 | 67.5 | -20.2 | 14.6 | 19.4 | 68.5 | -23.2 | 15.6 |
| Max | 25.1 | 79.9 | -13.7 | 72.8 | 25.3 | 79.1 | -8.9 | 73.1 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for January, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 20.3 (1.5) | 77.2 (3.6) | -20.5 (2.7) | 15.2 (4.4) | 20.0 (1.8) | 75.5 (2.3) | -12.1 (1.7) | 15.5 (1.9) |
| 2 | 21.2 (1.8) | 80.0 (1.4) | -19.2 (3.6) | 15.9 (5.8) | 20.7 (2.3) | 77.6 (1.5) | -11.3 (1.7) | 15.6 (2.3) |
| 3 | 23.2 (1.2) | 74.1 (6.3) | -17.3 (3.2) | 20.0 (7.5) | 23.0 (1.4) | 73.9 (4.9) | -10.9 (2.3) | 19.3 (6.1) |
| 4 | | | | | | | | |
| 5 | 24.9 (0.4) | 75.7 (2.0) | -16.3 (3.2) | 30.2 (15.1) | 25.2 (0.3) | 74.8 (1.7) | -11.3 (2.4) | 29.8 (6.4) |
| 6 | 24.1 (0.5) | 77.4 (1.5) | -17.2 (3.5) | 19.4 (7.0) | 23.8 (0.5) | 76.8 (1.6) | -11.9 (3.5) | 20.3 (6.1) |
| 7 | 24.1 (0.7) | 73.4 (3.9) | -18.8 (5.3) | 33.9 (19.6) | 24.1 (0.8) | 73.5 (3.7) | -14.3 (7.6) | 35.5 (25.5) |
| 8 | 22.7 (0.9) | 73.2 (2.7) | -19.0 (4.1) | 19.5 (8.6) | 23.1 (1.1) | 73.1 (2.2) | -12.1 (3.0) | 16.9 (4.6) |
| 9 | 21.7 (1.1) | 75.8 (4.0) | -18.9 (4.2) | 17.4 (7.7) | 21.6 (1.5) | 75.1 (3.3) | -12.0 (2.4) | 15.9 (3.0) |
| 10 | | | | | | | | |
| 11 | 24.6 (0.6) | 71.1 (2.2) | -16.9 (3.0) | 25.7 (10.8) | 25.1 (0.4) | 71.0 (1.7) | -10.6 (3.4) | 24.3 (7.1) |
| 12 | 22.5 (0.9) | 73.8 (3.3) | -18.2 (3.7) | 17.8 (6.5) | 23.1 (1.2) | 72.5 (3.1) | -8.6 (3.1) | 17.8 (5.3) |
| 13 | 22.2 (0.9) | 78.6 (1.5) | -18.7 (2.5) | 15.3 (4.4) | 22.6 (1.0) | 77.4 (1.2) | -10.3 (1.8) | 15.6 (2.4) |
| 14 | 21.5 (1.0) | 78.1 (2.7) | -18.7 (3.1) | 15.1 (4.5) | 21.5 (1.2) | 76.5 (2.3) | -9.7 (1.8) | 15.5 (1.3) |
| 15 | 21.1 (1.1) | 77.5 (3.0) | -18.7 (3.8) | 16.5 (6.9) | 21.1 (1.2) | 75.5 (3.1) | -9.5 (2.1) | 15.5 (1.2) |
| 16 | 18.6 (1.5) | 82.1 (1.3) | -18.5 (3.7) | 14.9 (4.8) | 18.4 (1.1) | 79.4 (2.4) | -11.1 (2.2) | 15.5 (0.3) |
| 17 | 17.9 (2.9) | 82.9 (1.7) | -18.5 (2.3) | 14.6 (1.5) | 18.1 (2.8) | 81.4 (1.9) | -10.7 (2.2) | 15.6 (0.4) |
| 18 | 21.6 (1.2) | 80.1 (1.7) | -19.7 (5.9) | 16.8 (9.8) | 21.7 (1.3) | 78.7 (2.1) | -10.4 (2.8) | 17.2 (4.8) |
| 19 | 22.9 (0.5) | 79.7 (1.7) | -19.0 (6.6) | 18.1 (11.5) | 22.8 (0.3) | 78.3 (2.2) | -10.5 (3.3) | 18.4 (7.0) |
| 20 | 19.7 (1.9) | 79.7 (2.0) | -19.6 (5.6) | 17.3 (8.7) | 20.3 (1.5) | 79.5 (2.2) | -13.9 (5.0) | 18.3 (7.7) |
| 21 | 17.7 (1.5) | 80.2 (3.6) | -18.6 (3.4) | 17.6 (7.6) | 17.9 (1.3) | 78.6 (3.8) | -13.0 (3.6) | 18.6 (7.8) |
| 22 | 20.3 (2.3) | 78.1 (5.6) | | | 20.7 (2.2) | 74.8 (6.4) | -13.9 (3.5) | 19.5 (8.0) |
| 23 | 23.0 (1.7) | 73.9 (7.5) | | | 22.9 (1.5) | 70.3 (7.0) | -12.6 (3.6) | 23.6 (12.2) |
| 24 | 25.1 (0.8) | 70.8 (4.4) | | | 24.3 (0.9) | 67.9 (5.0) | -13.1 (3.2) | 24.2 (8.6) |
| 25 | 21.8 (0.5) | 79.0 (2.0) | | | 20.8 (0.5) | 75.5 (2.5) | -16.2 (3.0) | 19.1 (7.0) |
| 26 | 22.6 (1.0) | 75.1 (3.4) | | | 21.5 (1.3) | 71.0 (3.5) | -14.8 (2.8) | 20.1 (8.4) |
| 27 | 23.6 (0.6) | 78.8 (2.5) | | | 22.8 (0.8) | 75.9 (2.8) | -14.9 (2.8) | 20.2 (7.4) |
| 28 | 25.1 (0.9) | 76.8 (3.1) | | | 24.2 (0.9) | 75.4 (2.4) | -16.5 (8.5) | 39.5 (32.4) |
| 29 | 24.0 (1.1) | 75.2 (5.9) | | | 23.1 (1.0) | 72.7 (6.7) | -14.1 (3.2) | 22.2 (10.2) |
| 30 | 22.6 (1.5) | 77.4 (6.1) | | | 21.8 (1.5) | 73.8 (6.5) | -14.3 (3.4) | 19.9 (8.8) |
| 31 | 21.5 (1.6) | 76.5 (5.3) | -18.0 (3.8) | 17.6 (7.5) | 20.7 (1.3) | 72.6 (5.7) | -14.8 (3.4) | 18.9 (7.9) |
| Mean | 22.1 | 77.0 | -18.5 | 18.9 | 22.0 | 75.1 | -12.4 | 20.3 |
| n | 29 | 29 | 20 | 20 | 29 | 29 | 29 | 29 |
| SD | 2.0 | 3.0 | 1.0 | 5.0 | 1.9 | 3.0 | 2.0 | 5.7 |
| Min | 17.7 | 70.8 | -20.5 | 14.6 | 17.9 | 67.9 | -16.5 | 15.5 |
| Max | 25.1 | 82.9 | -16.3 | 33.9 | 25.2 | 81.4 | -8.6 | 39.5 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for February, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 23.8 (1.4) | 70.1 (8.2) | -18.0 (4.0) | 22.3 (13.7) | 23.0 (1.5) | 66.3 (8.8) | -14.3 (3.4) | 25.6 (13.2) |
| 2 | 24.9 (1.1) | 68.2 (7.2) | -16.9 (3.8) | 24.2 (12.2) | 23.9 (0.9) | 65.8 (7.5) | -14.6 (3.9) | 30.2 (17.0) |
| 3 | 23.5 (0.5) | 76.6 (3.6) | -18.7 (3.4) | 17.6 (6.7) | 22.5 (0.6) | 73.6 (3.8) | -15.7 (3.0) | 17.9 (5.8) |
| 4 | 22.2 (0.7) | 78.5 (3.6) | -19.1 (3.1) | 16.5 (5.7) | 21.0 (0.8) | 74.9 (3.2) | -16.4 (3.0) | 16.8 (4.9) |
| 5 | 19.3 (0.9) | 80.7 (5.7) | -18.9 (3.2) | 16.8 (7.0) | 19.3 (1.3) | 79.3 (2.3) | -15.3 (2.0) | 15.7 (2.8) |
| 6 | 21.2 (2.7) | 80.3 (8.0) | -18.5 (3.0) | 16.2 (5.5) | 20.2 (2.8) | 75.8 (9.1) | -15.3 (2.3) | 17.9 (6.1) |
| 7 | 24.1 (1.9) | 69.2 (12.8) | -14.8 (3.7) | 27.3 (17.2) | 23.0 (2.0) | 66.1 (12.1) | -16.3 (5.0) | 36.2 (28.9) |
| 8 | 25.5 (0.4) | 62.4 (8.0) | -15.1 (3.9) | 29.0 (17.9) | 24.8 (0.7) | 60.8 (7.3) | | |
| 9 | 24.8 (0.9) | 68.2 (9.0) | -16.0 (4.1) | 24.0 (14.0) | 23.9 (0.8) | 65.1 (9.6) | -14.3 (3.7) | 29.6 (17.7) |
| 10 | 25.3 (1.0) | 69.6 (6.4) | -15.4 (4.2) | 36.8 (22.6) | 24.3 (0.9) | 67.8 (5.8) | -18.6 (8.3) | 47.3 (31.5) |
| 11 | 26.3 (0.6) | 65.9 (5.8) | -15.1 (6.1) | 51.0 (33.4) | 24.9 (0.7) | 65.4 (5.8) | -20.6 (9.8) | 68.9 (38.2) |
| 12 | 25.8 (0.5) | 57.7 (8.6) | -15.7 (4.8) | 32.3 (16.7) | 24.7 (0.6) | 55.4 (9.0) | -17.3 (5.9) | 46.5 (23.6) |
| 13 | 25.2 (1.0) | 60.5 (7.5) | -15.3 (3.7) | 24.5 (9.4) | 24.2 (0.7) | 58.4 (7.4) | -14.6 (3.8) | 32.0 (17.1) |
| 14 | 24.3 (0.8) | 68.1 (6.1) | -16.4 (4.0) | 22.1 (10.9) | 23.7 (0.8) | 65.2 (6.3) | -14.6 (3.4) | 26.2 (11.9) |
| 15 | 23.6 (1.3) | 69.9 (6.0) | -18.2 (3.9) | 20.2 (9.2) | 23.0 (1.1) | 67.0 (7.4) | -16.8 (3.9) | 22.6 (9.3) |
| 16 | 22.6 (0.9) | 74.2 (3.7) | -18.5 (3.6) | 18.6 (8.0) | 21.6 (1.1) | 71.3 (4.4) | -17.3 (3.7) | 19.0 (8.2) |
| 17 | 21.6 (1.9) | 74.8 (6.8) | -17.6 (3.7) | 18.0 (7.7) | 20.6 (2.1) | 69.9 (8.3) | -15.5 (3.3) | 20.0 (8.8) |
| 18 | 24.2 (1.6) | 75.9 (1.9) | -16.2 (3.0) | 19.7 (7.1) | 23.5 (1.4) | 71.6 (2.3) | -14.2 (3.3) | 25.5 (11.0) |
| 19 | 25.3 (1.4) | 68.4 (7.2) | -16.2 (3.6) | 23.3 (8.1) | 24.2 (1.2) | 65.4 (8.6) | -14.3 (3.8) | 28.0 (12.7) |
| 20 | 21.9 (1.1) | 75.5 (4.7) | -17.9 (3.1) | 16.2 (5.0) | 21.0 (1.2) | 72.7 (4.5) | -15.7 (2.7) | 16.5 (4.6) |
| 21 | 22.2 (2.1) | 74.9 (8.5) | -17.6 (3.0) | 17.5 (6.5) | 21.4 (2.3) | 69.3 (11.0) | -14.9 (2.2) | 19.6 (6.7) |
| 22 | 23.4 (1.0) | 73.5 (3.8) | -17.6 (3.7) | 18.5 (7.3) | 22.8 (1.1) | 69.2 (4.8) | -15.2 (3.6) | 19.8 (7.7) |
| 23 | 21.3 (1.3) | 75.5 (5.5) | -18.4 (3.9) | 17.7 (7.6) | 20.2 (1.2) | 70.5 (7.4) | -15.4 (3.6) | 18.9 (8.0) |
| 24 | 21.1 (1.9) | 76.1 (6.7) | -18.5 (3.4) | 17.1 (6.7) | 20.4 (2.0) | 70.8 (8.0) | -16.5 (2.9) | 19.0 (7.5) |
| 25 | 22.2 (2.2) | 74.9 (10.1) | -17.4 (3.3) | 17.9 (7.0) | 21.5 (2.1) | 69.7 (12.1) | -15.5 (2.2) | 20.3 (8.2) |
| 26 | 24.1 (1.7) | 69.3 (7.7) | -16.9 (3.9) | 25.6 (19.3) | 23.2 (1.5) | 66.4 (8.0) | -16.4 (4.9) | 33.0 (24.7) |
| 27 | 25.6 (0.5) | 64.7 (5.7) | -14.9 (4.0) | 26.8 (18.1) | 24.8 (0.5) | 62.5 (5.4) | -16.4 (6.7) | 42.5 (30.7) |
| 28 | 25.2 (1.2) | 74.4 (5.4) | -18.0 (4.5) | 14.3 (2.9) | 24.1 (1.1) | 73.3 (4.3) | -16.6 (5.0) | 21.7 (16.0) |
| Mean | 23.6 (1.2) | 71.4 (6.6) | -17.1 (3.8) | 22.6 (11.2) | 22.7 (1.3) | 68.2 (6.9) | -15.9 (4.0) | 27.3 (14.2) |
| n | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 27.0 | 27.0 |
| SD | 2 | 6 | 1 | 8 | 2 | 5 | 1 | 12 |
| Min | 19.3 | 57.7 | -19.1 | 14.3 | 19.3 | 55.4 | -20.6 | 15.7 |
| Max | 26.3 | 80.7 | -14.8 | 51.0 | 24.9 | 79.3 | -14.2 | 68.9 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for March, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 22.7 (0.5) | 80.4 (2.7) | -21.5 (4.2) | 14.4 (3.5) | 21.9 (0.6) | 78.1 (2.9) | -20.8 (5.0) | 12.9 (8.2) |
| 2 | | | | | | | | |
| 3 | 20.5 (1.0) | 84.2 (2.6) | -18.7 (2.1) | 14.1 (0.3) | 19.5 (1.0) | 80.0 (2.6) | -15.7 (2.2) | 8.2 (2.5) |
| 4 | 21.4 (2.2) | 80.8 (6.1) | -17.2 (2.5) | 15.6 (4.3) | 20.8 (2.3) | 76.2 (7.8) | -15.5 (2.1) | 13.9 (7.1) |
| 5 | 23.4 (1.7) | 70.9 (11.5) | -16.5 (4.0) | 22.6 (12.9) | 22.7 (1.9) | 67.2 (11.2) | -13.3 (3.8) | 26.3 (15.1) |
| 6 | 25.1 (1.0) | 63.4 (8.8) | -18.0 (6.4) | 45.7 (34.3) | 24.4 (1.0) | 61.5 (8.1) | -18.1 (8.6) | 54.5 (42.0) |
| 7 | 26.6 (0.6) | 60.6 (6.0) | -15.0 (6.4) | 73.4 (56.3) | 25.5 (0.9) | 60.4 (4.4) | -17.5 (7.8) | 94.7 (70.9) |
| 8 | 26.5 (0.9) | 56.4 (7.6) | -16.9 (7.2) | 93.0 (74.4) | 25.6 (1.5) | 56.2 (7.0) | -20.3 (7.8) | 111.0 (76.4) |
| 9 | 26.6 (0.9) | 47.1 (12.3) | -17.1 (6.8) | 98.7 (80.0) | 25.7 (1.6) | 46.9 (11.8) | -18.3 (7.2) | 117.0 (78.1) |
| 10 | 25.7 (0.5) | 60.0 (5.3) | -14.4 (3.1) | 30.7 (15.5) | 24.6 (0.5) | 58.1 (5.3) | -16.7 (5.6) | 42.9 (25.0) |
| 11 | 26.3 (0.9) | 62.3 (6.6) | -16.2 (6.8) | 86.2 (71.3) | 25.6 (1.4) | 61.6 (6.3) | -19.4 (6.4) | 105.0 (72.5) |
| 12 | 25.5 (0.5) | 57.6 (5.7) | -17.0 (3.1) | 23.9 (9.7) | 24.4 (0.6) | 54.3 (5.9) | -15.6 (3.7) | 29.9 (14.7) |
| 13 | 23.9 (0.4) | 73.7 (5.3) | -18.7 (3.2) | 18.7 (7.4) | 23.3 (0.6) | 69.7 (5.8) | -17.1 (3.3) | 22.0 (9.5) |
| 14 | 24.1 (0.4) | 77.5 (1.8) | -18.6 (3.3) | 18.5 (7.3) | 23.7 (0.5) | 73.2 (1.6) | -16.1 (3.0) | 20.2 (7.0) |
| 15 | 25.1 (0.6) | 76.6 (1.6) | -16.8 (3.8) | 19.8 (7.7) | 24.6 (0.4) | 71.3 (1.4) | -15.0 (2.9) | 23.4 (6.6) |
| 16 | 25.9 (0.3) | 75.6 (1.6) | -15.6 (3.3) | 20.9 (8.0) | 25.2 (0.2) | 69.9 (1.5) | -14.9 (2.2) | 26.7 (5.4) |
| 17 | 25.7 (0.5) | 74.0 (2.7) | -16.4 (3.2) | 21.8 (9.0) | 25.0 (0.4) | 70.2 (3.1) | -14.3 (3.1) | 25.6 (10.9) |
| 18 | 25.0 (1.1) | 70.2 (8.9) | -15.3 (3.0) | 28.7 (18.1) | 24.1 (1.1) | 67.5 (8.6) | -16.1 (6.7) | 36.6 (25.6) |
| 19 | 25.7 (0.5) | 65.0 (9.0) | -17.3 (5.2) | 45.2 (38.5) | 25.2 (0.7) | 63.3 (8.1) | -17.4 (8.5) | 53.5 (45.0) |
| 20 | 25.0 (0.8) | 65.3 (9.9) | -17.4 (3.4) | 23.2 (12.5) | 24.3 (0.6) | 61.0 (10.4) | -14.8 (3.0) | 28.7 (14.2) |
| 21 | 23.9 (1.3) | 67.7 (9.9) | -17.7 (3.4) | 20.0 (7.7) | 23.5 (1.0) | 63.3 (10.6) | -14.5 (2.8) | 24.6 (12.2) |
| 22 | 24.1 (1.7) | 65.0 (12.6) | -16.2 (3.1) | 26.1 (13.7) | 23.4 (1.4) | 61.4 (12.8) | -15.5 (5.5) | 35.1 (25.3) |
| 23 | 24.5 (1.1) | 64.8 (9.6) | -17.2 (3.8) | 24.9 (15.4) | 23.9 (0.9) | 59.6 (10.6) | -15.2 (5.2) | 40.2 (28.8) |
| 24 | 23.7 (1.3) | 64.4 (11.1) | -16.3 (3.5) | 23.0 (13.1) | 22.7 (1.4) | 58.6 (9.6) | -12.7 (4.0) | 32.9 (19.0) |
| 25 | 23.1 (0.8) | 66.2 (4.2) | -15.4 (4.4) | 23.5 (12.1) | 23.3 (0.9) | 62.4 (4.3) | -14.1 (2.9) | 24.7 (11.3) |
| 26 | 24.9 (1.1) | 72.0 (2.5) | -13.6 (2.7) | 36.0 (17.7) | 24.3 (0.5) | 69.1 (3.5) | -14.4 (4.7) | 51.4 (27.1) |
| 27 | 26.0 (0.5) | 72.2 (1.6) | -14.1 (3.1) | 41.9 (19.9) | 24.7 (0.6) | 70.8 (1.4) | -12.2 (3.8) | 51.9 (22.6) |
| 28 | 26.1 (0.6) | 71.6 (3.6) | -15.2 (6.3) | 61.7 (35.6) | 25.3 (1.0) | 71.2 (3.9) | -18.5 (7.8) | 74.4 (36.0) |
| 29 | 26.2 (0.8) | 61.2 (11.1) | -16.8 (8.3) | 71.5 (48.7) | 25.3 (0.9) | 60.2 (11.7) | -16.7 (8.7) | 96.1 (67.0) |
| 30 | 24.8 (0.7) | 55.2 (9.0) | -15.2 (3.8) | 29.3 (15.9) | 24.3 (0.4) | 50.2 (8.2) | -15.7 (5.3) | 37.2 (22.8) |
| 31 | 24.6 (1.4) | 55.0 (11.3) | -13.5 (4.7) | 43.8 (27.9) | 23.8 (1.6) | 55.5 (9.4) | -13.3 (4.9) | 44.9 (33.0) |
| Mean | 24.8 | 67.2 | -16.5 | 37.2 | 24.0 | 64.3 | -16.0 | 45.6 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 1.5 | 8.6 | 1.7 | 24.0 | 1.4 | 7.8 | 2.1 | 30.1 |
| Min | 20.5 | 47.1 | -21.5 | 14.1 | 19.5 | 46.9 | -20.8 | 8.2 |
| Max | 26.6 | 84.2 | -13.5 | 98.7 | 25.7 | 80.0 | -12.2 | 117.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for April, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 25.2 (1.5) | 63.5 (4.9) | -11.7 (4.1) | 40.5 (18.1) | 25.3 (0.6) | 64.9 (2.3) | -17.7 (9.7) | 46.1 (26.8) |
| 2 | 26.4 (0.5) | 70.6 (1.7) | -11.1 (4.7) | 28.4 (12.8) | 25.5 (0.5) | 70.9 (1.8) | -13.9 (3.9) | 44.3 (18.2) |
| 3 | 26.4 (0.6) | 60.5 (10.6) | -15.0 (7.6) | 66.2 (50.1) | 25.9 (0.7) | 60.8 (10.5) | -14.9 (9.2) | 90.4 (62.3) |
| 4 | 22.5 (2.5) | 50.7 (13.2) | -13.7 (5.0) | 133.0 (113.0) | 25.2 (0.7) | 51.0 (11.0) | -15.0 (10.5) | 51.1 (41.7) |
| 5 | 22.0 (3.3) | 50.5 (12.4) | -13.3 (3.0) | 179.0 (109.0) | 25.7 (1.4) | 50.2 (11.5) | -13.3 (7.8) | 104.0 (93.5) |
| 6 | 20.0 (1.0) | 69.4 (11.2) | -13.4 (5.6) | 186.0 (91.2) | 25.0 (0.6) | 63.2 (6.0) | -16.6 (8.5) | 60.1 (33.5) |
| 7 | 18.2 (0.6) | 58.5 (5.7) | -14.9 (3.9) | 31.2 (20.4) | 24.6 (0.6) | 60.0 (3.4) | -10.3 (3.3) | 20.1 (7.0) |
| 8 | 18.5 (1.0) | 55.5 (11.3) | -16.3 (5.1) | 47.4 (39.5) | 24.8 (0.7) | 57.9 (7.7) | -10.7 (3.5) | 23.6 (12.3) |
| 9 | 19.1 (0.8) | 54.3 (11.3) | -13.7 (4.5) | 105.0 (99.5) | 25.0 (0.6) | 54.4 (10.6) | -16.2 (10.3) | 42.2 (31.1) |
| 10 | 20.8 (2.5) | 59.3 (12.1) | -14.6 (5.0) | 171.0 (103.0) | 25.5 (0.7) | 56.6 (9.9) | -15.5 (9.0) | 81.0 (76.6) |
| 11 | 19.4 (0.8) | 67.4 (7.5) | -15.8 (6.1) | 145.0 (88.1) | 25.1 (0.6) | 62.0 (5.9) | -16.4 (6.9) | 51.7 (28.9) |
| 12 | 18.7 (0.9) | 53.0 (14.2) | -15.9 (4.6) | 56.3 (50.7) | 24.6 (0.6) | 56.5 (11.2) | -14.4 (3.3) | 31.6 (19.1) |
| 13 | 18.4 (0.7) | 62.3 (5.6) | -15.6 (5.0) | 58.4 (36.4) | 24.4 (0.5) | 63.3 (4.2) | -14.1 (4.5) | 30.2 (18.4) |
| 14 | 20.3 (1.4) | 76.5 (3.4) | -14.7 (5.2) | 158.0 (86.0) | 25.1 (0.8) | 68.9 (2.6) | -18.9 (9.0) | 66.6 (43.3) |
| 15 | 19.1 (0.8) | 67.8 (5.1) | -16.3 (5.2) | 69.7 (45.7) | 25.0 (0.6) | 66.2 (3.9) | -13.8 (3.8) | 33.2 (15.5) |
| 16 | 18.8 (0.9) | 51.2 (12.8) | -16.4 (5.7) | 90.2 (83.0) | 24.7 (0.4) | 56.3 (11.2) | -15.8 (6.7) | 34.9 (24.9) |
| 17 | 19.4 (2.2) | 50.9 (13.1) | -14.3 (4.5) | 127.0 (108.0) | 24.6 (1.1) | 52.3 (13.6) | -17.5 (10.5) | 56.5 (48.1) |
| 18 | 21.9 (3.7) | 47.1 (10.1) | -13.2 (3.0) | 185.0 (104.0) | 25.5 (1.6) | 48.1 (9.9) | -14.9 (8.1) | 110.0 (92.4) |
| 19 | 22.9 (3.5) | 58.1 (4.9) | -11.7 (6.0) | 72.3 (75.9) | 24.5 (0.9) | 56.8 (6.0) | -21.2 (11.6) | 68.4 (36.3) |
| 20 | 26.6 (0.8) | 63.6 (5.9) | -12.5 (6.3) | 74.4 (64.6) | 25.5 (1.4) | 65.5 (5.3) | -16.2 (9.1) | 115.0 (83.1) |
| 21 | 26.3 (0.7) | 55.5 (9.4) | -13.2 (5.0) | 53.3 (44.5) | 25.6 (0.7) | 57.7 (9.1) | -14.3 (7.8) | 66.5 (53.0) |
| 22 | 25.6 (0.7) | 55.6 (8.0) | -15.1 (4.6) | 25.0 (11.9) | 25.0 (0.4) | 57.8 (8.3) | -11.5 (4.4) | 30.9 (13.7) |
| 23 | 25.9 (1.5) | 49.7 (14.1) | -14.6 (6.0) | 58.0 (56.9) | 25.3 (1.0) | 51.2 (13.5) | -13.5 (9.4) | 80.6 (75.3) |
| 24 | 27.3 (2.1) | 57.1 (8.4) | -15.2 (5.5) | 126.0 (102.0) | 27.1 (2.5) | 58.1 (7.9) | -12.6 (6.5) | 145.0 (103.0) |
| 25 | 28.9 (2.5) | 61.2 (9.8) | -13.7 (7.3) | 163.0 (91.2) | 28.5 (3.1) | 62.6 (10.1) | -17.8 (11.1) | 190.0 (73.3) |
| 26 | 29.0 (2.5) | 54.9 (11.5) | -10.9 (4.9) | 152.0 (101.0) | 28.5 (3.1) | 56.0 (11.3) | -17.5 (10.3) | 169.0 (85.6) |
| 27 | 28.7 (2.0) | 54.0 (10.4) | -11.6 (4.8) | 142.0 (100.0) | 28.1 (2.8) | 55.3 (10.5) | -16.4 (9.2) | 164.0 (90.0) |
| 28 | 27.5 (1.3) | 53.1 (7.6) | -12.3 (6.0) | 123.0 (100.0) | 27.1 (1.7) | 53.5 (7.3) | -14.7 (8.3) | 142.0 (95.0) |
| 29 | 27.1 (0.7) | 61.0 (4.1) | -12.7 (6.1) | 84.8 (80.9) | 26.3 (1.0) | 61.9 (3.5) | -13.7 (6.3) | 109.0 (88.5) |
| 30 | 26.6 (0.5) | 65.9 (3.7) | -12.6 (6.5) | 42.6 (33.7) | 25.7 (0.6) | 66.3 (3.4) | -16.1 (10.5) | 61.2 (41.0) |
| Mean | 23.3 | 58.6 | -13.9 | 99.8 | 25.6 | 58.9 | -15.2 | 77.3 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 3.7 | 7.0 | 1.6 | 51.4 | 1.1 | 5.7 | 2.3 | 46.2 |
| Min | 18.2 | 47.1 | -16.4 | 25.0 | 24.4 | 48.1 | -21.2 | 20.1 |
| Max | 29.0 | 76.5 | -10.9 | 186.0 | 28.5 | 70.9 | -10.3 | 190.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for May, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 27.4 (0.7) | 69.5 (3.8) | -10.1 (6.9) | 104.0 (79.3) | 26.5 (0.9) | 70.9 (3.8) | -18.3 (10.0) | 144.0 (82.9) |
| 2 | | | | | | | | |
| 3 | 27.8 (1.2) | 64.6 (6.0) | -12.4 (6.5) | 150.0 (93.8) | 27.3 (1.8) | 65.3 (6.4) | -22.1 (13.5) | 172.0 (73.4) |
| 4 | 27.9 (1.2) | 63.5 (7.0) | -11.6 (7.3) | 139.0 (89.2) | 27.2 (1.9) | 64.4 (7.5) | -19.7 (12.0) | 174.0 (76.3) |
| 5 | 26.8 (0.6) | 73.9 (3.0) | -11.6 (4.6) | 47.3 (21.8) | 25.7 (0.6) | 74.5 (3.9) | -22.4 (13.2) | 67.4 (31.4) |
| 6 | 27.5 (0.9) | 72.7 (3.2) | -13.5 (6.9) | 107.0 (87.2) | 26.6 (1.5) | 73.5 (3.7) | -18.6 (11.9) | 133.0 (81.6) |
| 7 | 27.5 (1.0) | 70.8 (4.8) | -13.2 (8.9) | 131.0 (82.1) | 26.9 (1.4) | 71.3 (4.8) | -21.0 (12.9) | 163.0 (70.4) |
| 8 | 27.7 (0.7) | 70.1 (4.5) | -12.7 (6.7) | 137.0 (90.5) | 27.4 (1.2) | 70.3 (4.4) | -13.0 (7.5) | 169.0 (86.3) |
| 9 | | | | | | | | |
| 10 | 27.4 (0.7) | 61.1 (9.3) | -11.8 (7.9) | 71.8 (60.7) | 26.2 (0.6) | 60.5 (8.3) | -15.5 (9.6) | 109.0 (78.4) |
| 11 | 26.5 (0.5) | 68.1 (3.0) | -15.6 (3.2) | 25.2 (6.9) | 25.4 (0.3) | 64.4 (3.4) | -12.7 (3.1) | 37.4 (11.3) |
| 12 | 26.3 (0.8) | 61.6 (11.9) | -15.2 (6.6) | 54.6 (47.6) | 25.5 (1.0) | 59.6 (9.9) | -15.5 (10.9) | 72.9 (62.0) |
| 13 | 26.6 (0.7) | 60.5 (10.0) | -13.0 (6.0) | 53.2 (41.0) | 25.8 (0.8) | 57.7 (9.2) | -14.8 (9.9) | 79.4 (58.7) |
| 14 | 26.9 (0.8) | 70.5 (2.6) | -15.1 (7.9) | 91.4 (67.2) | 26.3 (1.0) | 69.8 (2.9) | -17.7 (12.0) | 130.0 (88.3) |
| 15 | 27.4 (1.0) | 72.5 (4.3) | -12.8 (7.1) | 130.0 (80.0) | 26.9 (1.6) | 72.7 (4.6) | -22.1 (12.3) | 166.0 (76.8) |
| 16 | 27.3 (0.9) | 73.7 (3.6) | -15.7 (7.3) | 145.0 (76.9) | 27.1 (1.3) | 74.1 (4.0) | -21.3 (13.7) | 179.0 (72.0) |
| 17 | 26.0 (0.6) | 76.4 (1.5) | -17.7 (4.2) | 49.4 (31.2) | 25.6 (0.5) | 74.9 (1.9) | -19.6 (11.9) | 63.1 (45.3) |
| 18 | 26.5 (0.7) | 67.1 (6.8) | -16.5 (4.3) | 23.2 (11.2) | 25.5 (0.7) | 63.0 (7.8) | -13.9 (4.6) | 34.1 (18.1) |
| 19 | 27.1 (0.7) | 64.4 (9.1) | -13.0 (4.7) | 25.5 (15.6) | 26.1 (0.5) | 59.3 (8.9) | -16.4 (9.1) | 43.3 (33.3) |
| 20 | 27.5 (1.4) | 62.0 (10.9) | -13.6 (6.4) | 53.0 (47.8) | 27.2 (1.3) | 59.6 (9.0) | -16.2 (11.0) | 61.6 (51.6) |
| 21 | 28.3 (0.8) | 63.0 (9.1) | -13.6 (8.4) | 71.4 (61.9) | 28.0 (0.9) | 61.2 (7.1) | -13.9 (10.0) | 84.3 (66.0) |
| 22 | 28.5 (0.7) | 65.4 (6.3) | -13.5 (6.7) | 107.0 (88.8) | 28.5 (1.0) | 64.1 (5.0) | -14.3 (7.6) | 122.0 (90.8) |
| 23 | 28.8 (0.6) | 65.8 (6.2) | -11.6 (6.2) | 114.0 (88.8) | 28.6 (1.2) | 64.8 (5.7) | -15.5 (8.6) | 129.0 (85.3) |
| 24 | 28.8 (0.7) | 71.4 (4.8) | -11.1 (8.5) | 97.1 (72.4) | 28.5 (0.8) | 70.5 (3.9) | -15.3 (9.1) | 117.0 (80.9) |
| 25 | 29.0 (0.7) | 70.4 (4.9) | -12.2 (8.3) | 116.0 (85.5) | 28.8 (1.0) | 69.7 (4.0) | -15.9 (9.6) | 135.0 (82.6) |
| 26 | 28.7 (0.7) | 72.7 (3.7) | -11.2 (7.4) | 85.6 (55.6) | 28.2 (0.8) | 72.3 (2.7) | -20.1 (11.8) | 116.0 (71.4) |
| 27 | 28.9 (0.7) | 68.9 (7.7) | -12.4 (7.1) | 116.0 (92.5) | 28.5 (1.2) | 68.5 (7.0) | -17.8 (9.4) | 132.0 (84.5) |
| 28 | | | | | | | | |
| 29 | 28.9 (1.3) | 71.0 (5.8) | -11.7 (5.9) | 133.0 (90.8) | 28.9 (1.6) | 69.9 (5.5) | -18.7 (9.4) | 143.0 (82.9) |
| 30 | 28.9 (0.8) | 64.2 (9.1) | -10.5 (7.1) | 96.2 (76.0) | 28.4 (0.7) | 63.0 (7.8) | -15.9 (9.7) | 116.0 (84.5) |
| 31 | 29.0 (0.9) | 64.6 (7.9) | -10.6 (5.8) | 125.0 (102.0) | 28.9 (1.4) | 62.6 (7.1) | -15.3 (8.7) | 130.0 (91.2) |
| Mean | 27.7 | 67.9 | -13.0 | 92.8 | 27.2 | 66.9 | -17.3 | 115.0 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 0.9 | 4.4 | 1.9 | 38.3 | 1.2 | 5.2 | 2.9 | 42.8 |
| Min | 26.0 | 60.5 | -17.7 | 23.2 | 25.4 | 57.7 | -22.4 | 34.1 |
| Max | 29.0 | 76.4 | -10.1 | 150.0 | 28.9 | 74.9 | -12.7 | 179.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for June, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 29.0 (0.8) | 61.4 (8.6) | -10.9 (5.3) | 117.0 (93.5) | 28.8 (1.4) | 59.6 (7.8) | -17.5 (10.0) | 129.0 (87.6) |
| 2 | 30.0 (1.9) | 64.4 (8.4) | -13.1 (6.0) | 155.0 (92.5) | 30.1 (2.3) | 63.3 (8.0) | -16.8 (8.5) | 164.0 (83.6) |
| 3 | 29.4 (1.9) | 65.0 (7.3) | -13.2 (4.6) | 157.0 (87.6) | 29.5 (2.2) | 64.1 (7.0) | -23.2 (12.8) | 162.0 (76.0) |
| 4 | 28.8 (1.2) | 69.0 (6.8) | -12.4 (5.6) | 133.0 (85.2) | 28.8 (1.5) | 67.7 (6.6) | -19.1 (9.8) | 142.0 (81.1) |
| 5 | 28.5 (0.7) | 74.6 (2.6) | -10.4 (5.8) | 85.7 (69.7) | 28.3 (0.7) | 73.2 (2.0) | -16.9 (9.3) | 101.0 (72.6) |
| 6 | 28.1 (0.5) | 70.9 (4.1) | -11.2 (7.5) | 46.4 (33.1) | 27.7 (0.4) | 68.8 (2.9) | -18.1 (9.2) | 57.2 (36.3) |
| 7 | 28.7 (0.7) | 69.1 (5.2) | -13.8 (6.6) | 78.9 (57.9) | 28.3 (0.8) | 67.7 (4.2) | -16.3 (9.9) | 108.0 (82.8) |
| 8 | 29.3 (1.3) | 69.6 (7.9) | -12.5 (7.5) | 128.0 (92.8) | 29.2 (1.7) | 68.1 (7.4) | -16.5 (8.3) | 141.0 (86.2) |
| 9 | 29.1 (1.8) | 72.0 (6.5) | -13.0 (6.6) | 126.0 (90.4) | 29.1 (2.1) | 70.8 (6.1) | -20.1 (11.2) | 131.0 (83.1) |
| 10 | 28.5 (0.8) | 71.7 (4.2) | -12.8 (6.7) | 117.0 (84.9) | 28.4 (0.9) | 70.6 (3.7) | -18.9 (12.5) | 124.0 (85.3) |
| 11 | 29.0 (1.2) | 74.1 (4.3) | -14.1 (7.4) | 148.0 (81.1) | 29.0 (1.5) | 73.3 (4.2) | -18.6 (10.9) | 162.0 (76.4) |
| 12 | 29.2 (1.6) | 73.4 (5.4) | -13.3 (6.3) | 150.0 (87.9) | 29.2 (2.0) | 72.0 (5.2) | -21.5 (12.7) | 157.0 (78.5) |
| 13 | 29.5 (1.7) | 71.5 (6.5) | -14.0 (6.1) | 157.0 (86.9) | 29.5 (2.0) | 70.3 (6.4) | -19.7 (11.3) | 162.0 (77.4) |
| 14 | 28.9 (1.0) | 70.1 (6.1) | -12.1 (7.1) | 135.0 (86.1) | 28.6 (1.3) | 69.3 (5.8) | -18.4 (10.2) | 148.0 (79.1) |
| 15 | 28.3 (0.8) | 75.1 (2.8) | -11.6 (7.3) | 74.7 (35.1) | 28.0 (0.7) | 74.0 (2.4) | -22.9 (13.4) | 90.1 (42.6) |
| 16 | 28.5 (0.5) | 74.1 (2.9) | -9.5 (8.5) | 53.6 (34.4) | 27.7 (0.5) | 72.8 (2.3) | -17.6 (10.3) | 68.9 (36.2) |
| 17 | 28.3 (0.6) | 74.4 (1.9) | -13.4 (10.0) | 76.5 (48.0) | 28.1 (0.6) | 73.3 (1.3) | -17.5 (12.3) | 88.6 (46.5) |
| 18 | 28.9 (1.4) | 77.3 (3.8) | -12.5 (3.8) | 187.0 (91.7) | 29.2 (1.6) | 76.1 (3.8) | -14.9 (6.4) | 186.0 (81.9) |
| 19 | 28.8 (2.3) | 75.0 (8.5) | -13.2 (2.6) | 240.0 (22.7) | 29.2 (2.5) | 74.1 (8.5) | -12.9 (1.4) | 241.0 (3.1) |
| 20 | 30.4 (2.6) | 73.3 (7.2) | -13.3 (1.3) | 249.0 (2.4) | 31.0 (2.6) | 72.0 (6.8) | -12.1 (1.3) | 240.0 (2.0) |
| 21 | 28.4 (2.7) | 64.8 (8.4) | -14.0 (3.4) | 237.0 (37.7) | 28.9 (2.7) | 64.0 (7.9) | -12.7 (5.0) | 235.0 (28.2) |
| 22 | 26.9 (2.5) | 67.8 (7.2) | -16.4 (7.2) | 195.0 (65.3) | 27.3 (2.5) | 66.9 (7.0) | -17.4 (11.7) | 199.0 (60.9) |
| 23 | 27.0 (2.0) | 73.6 (7.5) | -15.4 (7.3) | 203.0 (59.0) | 27.5 (2.1) | 73.0 (7.2) | -15.1 (8.7) | 205.0 (52.0) |
| 24 | 27.5 (2.8) | 68.7 (10.7) | -16.6 (8.0) | 197.0 (64.2) | 28.0 (2.8) | 68.0 (10.3) | -16.1 (10.6) | 198.0 (59.0) |
| 25 | 27.9 (3.6) | 66.5 (11.4) | -16.3 (6.0) | 201.0 (69.8) | 28.3 (3.7) | 65.5 (10.9) | -20.4 (13.0) | 196.0 (67.3) |
| 26 | 28.9 (3.4) | 70.1 (8.5) | -13.8 (5.8) | 218.0 (51.2) | 29.4 (3.5) | 69.4 (8.8) | -11.6 (3.2) | 224.0 (29.3) |
| 27 | 28.3 (3.1) | 69.2 (9.7) | -15.6 (6.9) | 218.0 (51.0) | 28.7 (3.2) | 68.5 (10.0) | -14.9 (7.6) | 221.0 (42.0) |
| 28 | 27.2 (3.0) | 64.7 (9.7) | -15.7 (3.9) | 200.0 (73.5) | 27.6 (3.2) | 63.8 (9.3) | -21.3 (13.2) | 195.0 (68.0) |
| 29 | 28.3 (2.8) | 60.1 (14.3) | -15.0 (6.4) | 223.0 (47.0) | 28.7 (2.8) | 59.8 (14.1) | -15.0 (6.7) | 228.0 (38.3) |
| 30 | 28.1 (3.5) | 60.5 (12.8) | -14.7 (3.9) | 196.0 (78.3) | 28.4 (3.8) | 59.9 (12.4) | -19.5 (10.5) | 192.0 (71.4) |
| Mean | 28.6 | 69.7 | -13.5 | 157.0 | 28.7 | 68.7 | -17.4 | 163.0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.8 | 4.5 | 1.8 | 57.3 | 0.8 | 4.4 | 3.0 | 51.3 |
| Min | 26.9 | 60.1 | -16.6 | 46.4 | 27.3 | 59.6 | -23.2 | 57.2 |
| Max | 30.4 | 77.3 | -9.5 | 249.0 | 31.0 | 76.1 | -11.6 | 241.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for July, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 29.0 (3.5) | 60.4 (12.1) | -14.7 (5.5) | 208.0 (59.9) | 29.3 (3.6) | 60.0 (11.9) | -15.4 (8.4) | 211.0 (50.2) |
| 2 | 27.4 (2.4) | 67.9 (9.8) | -15.3 (5.9) | 210.0 (58.3) | 27.7 (2.5) | 67.4 (9.7) | -15.1 (8.6) | 213.0 (53.0) |
| 3 | 26.0 (2.1) | 61.6 (7.2) | -18.6 (8.8) | 186.0 (71.0) | 26.4 (2.2) | 60.8 (6.9) | -19.0 (12.5) | 189.0 (68.4) |
| 4 | 26.4 (2.7) | 61.9 (9.2) | -14.8 (5.4) | 176.0 (86.0) | 26.7 (3.0) | 61.1 (9.1) | -16.3 (7.3) | 185.0 (79.5) |
| 5 | 25.6 (0.6) | 75.9 (5.1) | -15.9 (7.6) | 201.0 (55.2) | 26.0 (0.8) | 75.1 (5.6) | -13.4 (7.1) | 215.0 (44.4) |
| 6 | 26.0 (1.0) | 77.3 (4.4) | -15.5 (8.6) | 185.0 (56.5) | 26.3 (1.2) | 77.2 (4.6) | -13.1 (9.0) | 199.0 (49.3) |
| 7 | 26.9 (2.8) | 68.4 (12.1) | -17.5 (6.4) | 186.0 (71.7) | 27.3 (3.0) | 67.7 (11.6) | -19.9 (12.8) | 187.0 (68.5) |
| 8 | 27.6 (3.1) | 64.6 (9.5) | -16.7 (5.7) | 203.0 (71.7) | 28.1 (3.3) | 64.0 (9.1) | -19.7 (12.7) | 197.0 (67.7) |
| 9 | 26.2 (1.5) | 64.1 (6.1) | -15.6 (7.1) | 207.0 (56.6) | 26.6 (1.6) | 63.9 (6.2) | -13.4 (7.0) | 220.0 (43.3) |
| 10 | 25.7 (2.0) | 66.8 (7.5) | -21.4 (9.4) | 183.0 (69.0) | 26.3 (2.0) | 65.5 (7.0) | -19.3 (12.2) | 183.0 (67.8) |
| 11 | 26.9 (2.7) | 69.2 (4.2) | -14.9 (4.7) | 196.0 (79.0) | 27.3 (3.0) | 68.0 (4.3) | -18.1 (10.6) | 194.0 (72.2) |
| 12 | 29.3 (2.9) | 70.2 (8.2) | -13.7 (1.3) | 250.0 (3.6) | 29.9 (2.9) | 68.7 (7.7) | -12.6 (1.2) | 242.0 (3.7) |
| 13 | 26.1 (0.9) | 80.4 (3.0) | -15.3 (6.3) | 223.0 (48.7) | 26.6 (1.0) | 79.2 (2.9) | -14.1 (6.1) | 228.0 (41.1) |
| 14 | 26.7 (2.8) | 60.1 (16.3) | -19.9 (8.2) | 185.0 (69.4) | 27.2 (2.8) | 59.7 (15.4) | -20.3 (13.0) | 183.0 (68.3) |
| 15 | 27.3 (3.2) | 61.3 (9.8) | -15.6 (5.0) | 192.0 (83.5) | 27.7 (3.3) | 60.8 (9.6) | -17.4 (8.3) | 190.0 (78.8) |
| 16 | 28.5 (2.5) | 73.3 (6.1) | -14.3 (1.3) | 250.0 (2.4) | 29.0 (2.5) | 71.9 (5.7) | -14.2 (1.2) | 240.0 (2.5) |
| 17 | 27.8 (2.7) | 80.7 (6.5) | -13.6 (3.4) | 234.0 (27.6) | 28.2 (2.8) | 79.2 (6.5) | -14.8 (1.3) | 238.0 (2.3) |
| 18 | 26.8 (1.8) | 72.1 (10.8) | -12.8 (5.7) | 202.0 (54.9) | 26.9 (2.0) | 71.8 (11.2) | -16.6 (8.4) | 222.0 (48.3) |
| 19 | 26.6 (2.7) | 63.8 (7.5) | -17.7 (5.7) | 195.0 (73.9) | 27.0 (2.8) | 62.7 (6.7) | -21.8 (12.7) | 191.0 (70.9) |
| 20 | 25.6 (1.0) | 79.8 (2.4) | -15.8 (10.1) | 175.0 (56.9) | 25.7 (1.1) | 79.8 (2.5) | -18.1 (11.6) | 197.0 (60.7) |
| 21 | 26.6 (2.2) | 75.9 (7.8) | -18.4 (8.4) | 202.0 (62.2) | 27.0 (2.2) | 75.2 (7.2) | -17.5 (10.9) | 203.0 (57.3) |
| 22 | 27.1 (2.4) | 76.0 (8.9) | -11.5 (3.0) | 215.0 (64.0) | 27.5 (2.6) | 76.2 (8.4) | -14.0 (8.8) | 215.0 (52.9) |
| 23 | 28.1 (2.3) | 77.5 (8.1) | -10.0 (4.3) | 235.0 (38.7) | 28.5 (2.5) | 76.3 (8.0) | -8.8 (2.0) | 242.0 (19.0) |
| 24 | 27.8 (2.4) | 70.0 (11.4) | -10.6 (4.2) | 242.0 (34.5) | 28.4 (2.5) | 68.8 (11.3) | -10.2 (3.0) | 240.0 (23.6) |
| 25 | 28.3 (3.3) | 70.6 (10.8) | -11.9 (6.7) | 220.0 (52.7) | 28.7 (3.5) | 70.0 (10.9) | -11.5 (6.6) | 230.0 (42.9) |
| 26 | 29.3 (3.4) | 72.2 (9.9) | -10.5 (2.8) | 246.0 (26.8) | 29.6 (3.7) | 71.3 (10.0) | -10.1 (1.3) | 249.0 (3.0) |
| 27 | 28.1 (2.6) | 77.8 (8.8) | -11.5 (2.9) | 248.0 (27.5) | 28.4 (2.7) | 76.4 (8.4) | -10.9 (1.2) | 249.0 (2.9) |
| 28 | 28.7 (3.0) | 74.3 (6.1) | -12.6 (7.0) | 218.0 (57.8) | 29.0 (3.1) | 73.8 (6.2) | -12.1 (7.2) | 218.0 (47.8) |
| 29 | 28.2 (1.6) | 79.9 (5.2) | -11.5 (1.2) | 256.0 (2.0) | 28.6 (1.6) | 78.4 (4.8) | -10.7 (1.2) | 249.0 (1.9) |
| 30 | 29.0 (2.7) | 75.1 (9.2) | -9.6 (1.8) | 260.0 (3.2) | 29.3 (2.7) | 73.7 (8.4) | -8.1 (2.2) | |
| 31 | 27.9 (2.6) | 79.1 (7.4) | -9.8 (1.3) | 263.0 (2.1) | 28.2 (2.6) | 77.7 (7.2) | -7.7 (1.4) | |
| Mean | 27.3 | 71.2 | -14.4 | 215.0 | 27.7 | 70.4 | -14.7 | 214.0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 29 |
| SD | 1.1 | 6.5 | 3.0 | 26.6 | 1.1 | 6.4 | 3.8 | 22.3 |
| Min | 25.6 | 60.1 | -21.4 | 175.0 | 25.7 | 59.7 | -21.8 | 183.0 |
| Max | 29.3 | 80.7 | -9.6 | 263.0 | 29.9 | 79.8 | -7.7 | 249.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for August, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 28.2 (2.4) | 80.4 (6.5) | -10.1 (0.9) | 261.0 (2.0) | 28.1 (2.4) | 78.7 (6.1) | -8.1 (1.0) | |
| 2 | 27.8 (1.0) | 84.0 (3.0) | -9.2 (1.0) | 263.0 (1.7) | 27.6 (1.0) | 82.5 (2.7) | -7.7 (1.0) | |
| 3 | 28.5 (2.7) | 76.3 (10.9) | -9.2 (1.2) | 261.0 (6.2) | 28.3 (2.7) | 74.8 (10.1) | -7.8 (1.1) | |
| 4 | 28.7 (2.9) | 74.6 (11.6) | -8.5 (2.8) | 253.0 (22.0) | 28.4 (3.0) | 73.4 (11.1) | -7.8 (1.2) | |
| 5 | 29.4 (3.1) | 74.2 (9.9) | -9.1 (1.7) | 259.0 (8.9) | 29.2 (3.1) | 73.0 (9.6) | -7.4 (1.3) | |
| 6 | 26.4 (1.0) | 82.5 (3.8) | -8.6 (5.3) | 230.0 (41.7) | 26.1 (1.3) | 82.7 (3.6) | -8.0 (1.6) | |
| 7 | 27.1 (2.2) | 71.5 (10.7) | -13.8 (8.1) | 216.0 (66.7) | 27.5 (2.1) | 72.5 (10.5) | -8.0 (2.6) | 220.0 (51.3) |
| 8 | 28.3 (2.7) | 72.1 (7.2) | -11.8 (7.1) | 230.0 (53.7) | 28.5 (2.6) | 73.6 (7.6) | -8.0 (2.3) | 235.0 (36.1) |
| 9 | 30.3 (3.6) | 69.9 (10.3) | -9.9 (1.3) | 260.0 (4.2) | 30.4 (3.6) | 70.5 (10.2) | -8.6 (1.3) | 254.0 (4.2) |
| 10 | 31.2 (3.3) | 69.5 (10.4) | -9.9 (1.2) | 258.0 (3.8) | 31.4 (3.2) | 70.2 (10.0) | -8.3 (1.2) | 252.0 (3.7) |
| 11 | 30.1 (3.5) | 71.7 (12.8) | -10.6 (1.7) | 257.0 (3.4) | 30.2 (3.5) | 72.5 (12.6) | -8.8 (1.2) | 252.0 (3.2) |
| 12 | 27.2 (2.1) | 82.5 (5.1) | -10.5 (3.4) | 247.0 (32.1) | 27.3 (2.1) | 83.2 (5.2) | -9.0 (1.0) | 253.0 (2.2) |
| 13 | 26.5 (1.2) | 83.1 (4.3) | -11.6 (3.5) | 245.0 (31.7) | 26.6 (1.4) | 84.5 (4.5) | -10.0 (1.1) | 253.0 (1.9) |
| 14 | 26.3 (1.3) | 84.4 (4.6) | -10.3 (2.7) | 246.0 (25.4) | 26.4 (1.3) | 85.8 (4.6) | -9.5 (1.2) | 253.0 (6.5) |
| 15 | 27.1 (1.8) | 81.3 (6.5) | -9.7 (3.1) | 245.0 (28.7) | 27.1 (2.0) | 83.1 (6.6) | -9.1 (0.9) | 255.0 (1.8) |
| 16 | 27.7 (2.3) | 78.9 (7.9) | -10.5 (5.7) | 224.0 (56.8) | 28.0 (2.4) | 81.2 (7.9) | -9.7 (5.1) | 232.0 (43.5) |
| 17 | 28.2 (2.8) | 76.0 (10.4) | -11.7 (6.4) | 231.0 (53.1) | 28.4 (2.7) | 78.1 (10.5) | -8.8 (5.6) | 236.0 (38.3) |
| 18 | 29.9 (2.9) | 73.2 (10.5) | -9.8 (1.2) | 261.0 (2.2) | 30.0 (2.9) | 74.5 (10.2) | -7.8 (1.4) | 255.0 (1.9) |
| 19 | 30.2 (3.0) | 72.2 (9.6) | -10.0 (1.3) | 260.0 (2.9) | 30.4 (2.9) | 73.7 (9.5) | -7.3 (1.2) | 255.0 (3.1) |
| 20 | 29.9 (2.1) | 76.8 (6.1) | -10.1 (1.2) | 259.0 (2.9) | 30.1 (2.1) | 78.3 (6.0) | -7.3 (1.3) | 254.0 (2.7) |
| 21 | 29.0 (2.0) | 79.7 (6.8) | -10.7 (1.2) | 258.0 (2.3) | 29.2 (2.0) | 81.2 (6.8) | -6.7 (1.6) | 255.0 (2.5) |
| 22 | 26.9 (2.0) | 84.5 (4.8) | -9.7 (3.5) | 247.0 (30.3) | 27.1 (2.1) | 86.2 (4.9) | -7.6 (1.2) | 253.0 (8.3) |
| 23 | 26.6 (1.8) | 80.2 (4.6) | -11.4 (7.9) | 205.0 (61.7) | 26.9 (1.8) | 82.8 (5.0) | -9.0 (7.9) | 211.0 (50.1) |
| 24 | 27.2 (2.2) | 78.8 (6.2) | -9.7 (6.5) | 222.0 (54.4) | 27.4 (2.1) | 81.0 (6.2) | -9.0 (7.6) | 227.0 (48.7) |
| 25 | 28.0 (2.5) | 75.6 (9.0) | -9.8 (5.6) | 229.0 (49.0) | 28.2 (2.5) | 78.0 (9.2) | -7.7 (1.1) | 236.0 (37.6) |
| 26 | 28.7 (2.8) | 74.4 (8.9) | -9.5 (4.6) | 233.0 (46.5) | 28.8 (2.8) | 76.6 (9.3) | -7.2 (2.2) | 242.0 (26.7) |
| 27 | 29.3 (3.0) | 71.7 (11.8) | -10.3 (1.4) | 257.0 (7.4) | 29.4 (3.0) | 73.4 (11.4) | -8.6 (1.1) | 254.0 (3.2) |
| 28 | 27.7 (2.3) | 79.6 (7.0) | -11.1 (0.9) | 258.0 (1.9) | 28.0 (2.3) | 80.9 (6.9) | -9.0 (0.8) | 253.0 (2.1) |
| 29 | 28.0 (2.4) | 77.8 (9.1) | -9.7 (1.6) | 254.0 (11.3) | 28.1 (2.4) | 79.3 (9.0) | -8.4 (1.1) | 253.0 (2.6) |
| 30 | 27.3 (1.9) | 74.4 (9.1) | -10.4 (2.9) | 250.0 (25.9) | 27.8 (1.5) | 74.7 (8.2) | -8.8 (7.3) | 223.0 (46.2) |
| 31 | 24.5 (0.8) | 79.9 (1.6) | -17.7 (11.3) | 128.0 (39.2) | 25.0 (1.0) | 80.4 (1.3) | -29.7 (14.2) | 114.0 (33.1) |
| Mean | 28.1 | 77.1 | -10.5 | 242.0 | 28.3 | 78.1 | -9.0 | 239.0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 25 |
| SD | 1.4 | 4.5 | 1.7 | 26.0 | 1.4 | 4.6 | 3.9 | 28.6 |
| Min | 24.5 | 69.5 | -17.7 | 128.0 | 25.0 | 70.2 | -29.7 | 114.0 |
| Max | 31.2 | 84.5 | -8.5 | 263.0 | 31.4 | 86.2 | -6.7 | 255.0 |

**Table E3. Daily means (SD) of environmental parameters at Site NC2B for September, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3 s^{-1}$ | Temp., °C | RH, % | ΔP, Pa | Airflow, $dsm^3$ |
| 1 | 24.1 (1.4) | 67.5 (7.9) | -12.8 (3.9) | 156.0 (93.1) | 24.0 (1.6) | 69.5 (7.8) | -21.6 (13.5) | 165.0 (83.3) |
| 2 | 23.5 (1.8) | 68.2 (4.9) | -14.1 (5.1) | 164.0 (90.5) | 23.7 (1.8) | 70.0 (4.9) | -16.8 (10.5) | 169.0 (85.9) |
| 3 | 23.7 (2.1) | 73.8 (3.4) | -15.4 (6.0) | 182.0 (76.7) | 24.0 (1.9) | 75.0 (3.3) | -21.0 (14.7) | 185.0 (79.1) |
| 4 | 24.7 (3.1) | 66.1 (12.1) | -14.4 (6.0) | 170.0 (85.3) | 24.7 (3.1) | 67.7 (12.2) | -23.0 (16.1) | 177.0 (79.9) |
| 5 | 25.8 (3.7) | 68.1 (9.6) | -14.3 (4.3) | 191.0 (84.6) | 26.0 (3.8) | 69.9 (9.5) | -18.5 (12.8) | 197.0 (76.5) |
| 6 | 25.3 (3.0) | 68.7 (9.3) | -18.8 (9.4) | 197.0 (71.1) | 25.7 (2.7) | 70.1 (9.0) | -16.7 (12.8) | 204.0 (67.2) |
| 7 | 24.6 (1.0) | 84.1 (3.1) | -14.0 (7.1) | 225.0 (51.7) | 24.9 (0.8) | 85.8 (3.2) | -11.7 (6.5) | 230.0 (45.6) |
| 8 | 24.5 (1.3) | 82.6 (4.4) | -13.5 (5.0) | 236.0 (49.4) | 24.7 (1.3) | 84.4 (4.1) | -10.3 (5.3) | 239.0 (35.8) |
| 9 | 24.4 (2.4) | 72.1 (7.6) | -17.3 (9.8) | 194.0 (74.9) | 24.9 (2.2) | 73.5 (7.3) | -16.7 (13.3) | 195.0 (71.1) |
| 10 | 24.0 (1.5) | 73.8 (4.2) | -12.3 (8.8) | 117.0 (47.4) | 24.1 (1.2) | 76.3 (3.8) | -20.4 (15.8) | 133.0 (49.4) |
| 11 | 25.2 (1.1) | 67.5 (4.7) | -10.8 (5.5) | 133.0 (91.6) | 25.1 (1.3) | 70.2 (5.0) | -16.1 (9.5) | 141.0 (84.4) |
| 12 | 26.0 (1.9) | 66.6 (7.2) | -11.4 (4.8) | 146.0 (95.9) | 26.3 (1.8) | 69.1 (7.4) | -13.2 (8.8) | 148.0 (94.8) |
| 13 | 25.6 (1.6) | 68.5 (5.0) | -12.3 (5.4) | 142.0 (97.5) | 25.9 (1.5) | 70.7 (5.1) | -13.8 (9.1) | 145.0 (95.6) |
| 14 | 26.3 (2.3) | 65.8 (8.9) | -12.1 (4.6) | 148.0 (96.3) | 26.6 (2.2) | 68.1 (9.0) | -13.4 (10.2) | 152.0 (95.7) |
| 15 | 27.2 (2.7) | 68.5 (7.5) | -12.8 (5.6) | 175.0 (92.1) | 27.4 (2.7) | 70.9 (7.6) | -11.3 (6.4) | 183.0 (87.8) |
| 16 | 26.0 (1.2) | 76.5 (2.0) | -17.9 (10.8) | 157.0 (72.3) | 26.3 (1.1) | 78.7 (2.2) | -18.3 (15.1) | 168.0 (68.3) |
| 17 | 26.1 (0.8) | 78.2 (1.1) | -17.3 (9.1) | 111.0 (39.0) | 26.1 (0.7) | 81.2 (0.8) | -23.5 (16.7) | 125.0 (42.1) |
| 18 | 26.1 (0.9) | 74.0 (3.4) | -13.0 (7.5) | 103.0 (47.9) | 25.8 (1.0) | 77.4 (2.8) | -21.7 (15.7) | 117.0 (44.7) |
| 19 | 26.4 (1.1) | 73.8 (3.0) | -12.0 (7.0) | 126.0 (89.7) | 26.1 (1.3) | 76.8 (3.2) | -18.1 (11.3) | 139.0 (89.2) |
| 20 | 25.8 (0.8) | 67.3 (5.0) | -13.5 (6.3) | 108.0 (84.0) | 25.8 (0.9) | 70.5 (4.9) | -17.0 (11.1) | 115.0 (82.6) |
| 21 | 26.3 (1.3) | 69.1 (5.5) | -14.5 (5.3) | 131.0 (92.9) | 26.7 (1.2) | 71.5 (5.3) | -16.1 (11.7) | 132.0 (91.8) |
| 22 | 26.9 (1.3) | 79.6 (2.6) | -16.2 (8.3) | 173.0 (73.3) | 27.1 (1.2) | 82.1 (3.2) | -16.3 (14.1) | 184.0 (68.9) |
| 23 | 27.2 (1.0) | 82.1 (2.1) | -14.9 (9.5) | 164.0 (66.6) | 27.3 (1.0) | 85.5 (2.7) | -12.7 (13.0) | 159.0 (61.6) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 25.5 | 72.3 | -14.2 | 159.0 | 25.6 | 74.6 | -16.9 | 165.0 |
| n | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| SD | 1.1 | 5.6 | 2.1 | 34.9 | 1.1 | 5.7 | 3.7 | 33.1 |
| Min | 23.5 | 65.8 | -18.8 | 103.0 | 23.7 | 67.7 | -23.5 | 115.0 |
| Max | 27.2 | 84.1 | -10.8 | 236.0 | 27.4 | 85.8 | -10.3 | 239.0 |

## Table E4. Particulate matter concentrations

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for September, 2007.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | 54.4 (23.6) | 242 (151) | 143 (109) | 54.4 (23.6) | | | | | |
| 26 | 59.3 (28.2) | 195 (122) | 123 (89) | 59.3 (28.2) | | | | | |
| 27 | 50.8 (21.5) | 138 (63) | 67 (27) | 50.8 (21.5) | | | | | |
| 28 | 28.5 (15.6) | 140 (113) | 83 (44) | 28.5 (15.6) | | | | | |
| 29 | 34.2 (22.0) | 254 (134) | 208 (154) | 34.2 (22.0) | | | | | |
| 30 | 29.4 (21.7) | 215 (139) | 176 (131) | 29.4 (21.7) | | | | | |
| Mean | 42.8 | 197 | 133 | 42.8 | | | | | |
| n | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 |
| SD | 12.4 | 45 | 49 | 12.4 | | | | | |
| Min | 28.5 | 138 | 67 | 28.5 | | | | | |
| Max | 59.3 | 254 | 208 | 59.3 | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for October, 2007.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 50.7 (44.8) | 200 (138) | 156 (116) | 50.7 (44.8) | | | | | |
| 2 | 30.5 (29.6) | 84 (42) | 81 (32) | 30.5 (29.6) | | | | | |
| 3 | 23.8 (13.4) | 133 (128) | 89 (70) | 23.8 (13.4) | | | | | |
| 4 | 22.0 (14.0) | 101 (66) | 58 (53) | 22.0 (14.0) | | | | | |
| 5 | 14.8 (7.2) | 68 (30) | 41 (18) | 14.8 (7.2) | | | | | |
| 6 | 19.8 (11.6) | 88 (46) | 52 (25) | 19.8 (11.6) | | | | | |
| 7 | 23.1 (26.7) | 105 (58) | 75 (37) | 23.1 (26.7) | | | | | |
| 8 | 34.3 (16.3) | 175 (105) | 114 (61) | 34.3 (16.3) | | | | | |
| 9 | 45.8 (15.1) | 139 (80) | 90 (39) | 45.8 (15.1) | | | | | |
| 10 | 33.9 (12.1) | 138 (75) | 106 (44) | 33.9 (12.1) | | | | | |
| 11 | 18.9 (8.4) | 252 (240) | 300 (225) | 18.9 (8.4) | | | | | |
| 12 | 17.1 (8.6) | 347 (185) | 309 (194) | 17.1 (8.6) | | | | | |
| 13 | 18.7 (9.8) | 279 (201) | 289 (207) | 18.7 (9.8) | | | | | |
| 14 | 23.0 (9.3) | 260 (190) | 258 (188) | 23.0 (9.3) | | | | | |
| 15 | 33.1 (12.6) | 215 (151) | 225 (181) | 33.1 (12.6) | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | 18.9 (14.3) | 127 (113) | 110 (163) | 18.9 (14.3) | | | | | |
| 19 | 13.8 (7.5) | 37 (48) | 27 (33) | 13.8 (7.5) | | | | | |
| 20 | 16.2 (10.2) | 167 (192) | 161 (183) | 16.2 (10.2) | | | | | |
| 21 | 16.7 (7.7) | 252 (210) | 238 (192) | 16.7 (7.7) | | | | | |
| 22 | 22.1 (7.8) | 179 (147) | 176 (183) | 22.1 (7.8) | | | | | |
| 23 | 31.0 (27.8) | 120 (86) | 107 (120) | 31.0 (27.8) | | | | | |
| 24 | 19.9 (19.5) | 82 (74) | 51 (42) | 19.9 (19.5) | | | | | |
| 25 | 9.4 (3.9) | 198 (99) | 157 (83) | 9.4 (3.9) | | | | | |
| 26 | 12.2 (5.0) | 94 (59) | 74 (39) | 12.2 (5.0) | | | | | |
| 27 | 22.0 (24.0) | 156 (118) | 146 (92) | 22.0 (24.0) | | | | | |
| 28 | 16.4 (6.0) | 405 (225) | 361 (184) | 16.4 (6.0) | | | | | |
| 29 | 16.5 (6.9) | 406 (205) | 378 (186) | 16.5 (6.9) | | | | | |
| 30 | 18.9 (9.1) | 383 (240) | 343 (192) | 18.9 (9.1) | | | | | |
| 31 | 21.9 (11.1) | 386 (289) | 282 (159) | 21.9 (11.1) | | | | | |
| Mean | 22.9 | 192 | 167 | 22.9 | | | | | |
| n | 29 | 29 | 29 | 29 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.3 | 107 | 105 | 9.3 | | | | | |
| Min | 9.4 | 37 | 27 | 9.4 | | | | | |
| Max | 50.7 | 406 | 378 | 50.7 | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for November, 2007.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | 251 (211) | 244 (183) | | | | | | |
| 2 | 16.2 (7.7) | 397 (275) | 346 (199) | 16.2 (7.7) | | | | | |
| 3 | 15.6 (9.4) | 448 (262) | 370 (215) | 15.6 (9.4) | | | | | |
| 4 | 26.5 (12.3) | 423 (264) | 355 (218) | 26.5 (12.3) | | | | | |
| 5 | 28.1 (14.6) | 408 (265) | 336 (210) | 28.1 (14.6) | | | | | |
| 6 | 24.6 (11.0) | 383 (369) | 358 (254) | 24.6 (11.0) | | | | | |
| 7 | 25.9 (19.4) | 417 (253) | 396 (279) | 25.9 (19.4) | | | | | |
| 8 | 35.1 (35.0) | 451 (356) | 465 (320) | 35.1 (35.0) | | | | | |
| 9 | 25.4 (10.5) | 563 (451) | 500 (341) | 25.4 (10.5) | | | | | |
| 10 | 29.9 (17.3) | 529 (377) | 469 (292) | 29.9 (17.3) | | | | | |
| 11 | 29.9 (9.4) | 525 (371) | 445 (318) | 29.9 (9.4) | | | | | |
| 12 | 40.8 (22.8) | 564 (801) | 456 (410) | 40.8 (22.8) | | | | | |
| 13 | 46.9 (12.1) | 476 (403) | 385 (311) | 46.9 (12.1) | | | | | |
| 14 | | | | | | | | | |
| 15 | 25.0 (14.7) | 623 (360) | 481 (246) | 25.0 (14.7) | | | | | |
| 16 | 14.5 (4.9) | 685 (307) | 542 (250) | 14.5 (4.9) | | | | | |
| 17 | 21.7 (8.0) | 628 (300) | 494 (225) | 21.7 (8.0) | | | | | |
| 18 | 27.4 (8.7) | 518 (263) | 418 (220) | 27.4 (8.7) | | | | | |
| 19 | 30.6 (6.3) | 537 (332) | 471 (247) | 30.6 (6.3) | | | | | |
| 20 | 47.6 (10.9) | 488 (264) | 401 (217) | 47.6 (10.9) | | | | | |
| 21 | 38.0 (9.6) | 371 (191) | 309 (168) | 38.0 (9.6) | | | | | |
| 22 | 20.1 (10.0) | 243 (119) | 183 (127) | 20.1 (10.0) | | | | | |
| 23 | 13.5 (7.4) | 494 (221) | 420 (198) | 13.5 (7.4) | | | | | |
| 24 | 14.9 (6.5) | 515 (222) | 446 (207) | 14.9 (6.5) | | | | | |
| 25 | 16.0 (4.6) | 467 (222) | 555 (514) | 16.0 (4.6) | | | | | |
| 26 | 27.8 (11.3) | 325 (224) | 286 (189) | 27.8 (11.3) | | | | | |
| 27 | 17.2 (7.7) | 382 (321) | 291 (247) | 17.2 (7.7) | | | | | |
| 28 | 18.4 (6.5) | 784 (568) | 630 (423) | 18.4 (6.5) | | | | | |
| 29 | | | | | | | | | |
| 30 | 16.5 (8.8) | 770 (455) | 607 (405) | 16.5 (8.8) | | | | | |
| Mean | 25.7 | 488 | 416 | 25.7 | | | | | |
| n | 27 | 28 | 28 | 27 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.4 | 129 | 103 | 9.4 | | | | | |
| Min | 13.5 | 243 | 183 | 13.5 | | | | | |
| Max | 47.6 | 784 | 630 | 47.6 | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for December, 2007.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 14.3 (5.2) | 642 (400) | 548 (354) | 14.3 (5.2) | | | | | |
| 2 | 19.9 (6.7) | 646 (399) | 547 (366) | 19.9 (6.7) | | | | | |
| 3 | 23.1 (8.6) | 527 (445) | 427 (402) | 23.1 (8.6) | | | | | |
| 4 | 22.5 (11.0) | 706 (654) | 636 (584) | 22.5 (11.0) | | | | | |
| 5 | 20.8 (9.7) | 671 (557) | 560 (448) | 20.8 (9.7) | | | | | |
| 6 | | 669 (515) | 510 (377) | | | | | | |
| 7 | | 658 (426) | 532 (444) | | | | | | |
| 8 | 39.7 (9.1) | 459 (485) | 401 (417) | 39.7 (9.1) | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | 46.4 (12.8) | 610 (260) | 520 (212) | 46.4 (12.8) | | | | | |
| 12 | 35.4 (14.3) | 278 (160) | 229 (118) | 35.4 (14.3) | | | | | |
| 13 | 29.4 (15.3) | 382 (213) | 363 (219) | 29.4 (15.3) | | | | | |
| 14 | 21.7 (9.6) | 433 (230) | 397 (236) | 21.7 (9.6) | | | | | |
| 15 | 25.0 (7.6) | 532 (238) | 553 (254) | 25.0 (7.6) | | | | | |
| 16 | 12.0 (5.1) | 605 (630) | 545 (265) | 12.0 (5.1) | | | | | |
| 17 | 24.1 (11.0) | 555 (291) | 558 (300) | 24.1 (11.0) | | | | | |
| 18 | 25.9 (11.0) | 728 (519) | 716 (531) | 25.9 (11.0) | | | | | |
| 19 | 28.1 (11.1) | 870 (434) | 875 (420) | 28.1 (11.1) | | | | | |
| 20 | 32.6 (8.0) | 811 (440) | 873 (849) | 32.6 (8.0) | | | | | |
| 21 | 57.7 (18.3) | 642 (460) | 687 (486) | 57.7 (18.3) | | | | | |
| 22 | 42.1 (11.1) | 604 (599) | 628 (562) | 42.1 (11.1) | | | | | |
| 23 | 24.2 (11.7) | 388 (374) | 382 (336) | 24.2 (11.7) | | | | | |
| 24 | 24.5 (10.2) | 512 (424) | 494 (424) | 24.5 (10.2) | | | | | |
| 25 | 23.4 (7.9) | 501 (347) | 493 (312) | 23.4 (7.9) | | | | | |
| 26 | 28.7 (11.7) | 547 (351) | 518 (284) | 28.7 (11.7) | | | | | |
| 27 | 27.6 (8.5) | 645 (451) | 527 (298) | 27.6 (8.5) | | | | | |
| 28 | 28.3 (9.9) | 713 (317) | 488 (232) | 28.3 (9.9) | | | | | |
| 29 | 25.1 (7.9) | 272 (178) | 169 (119) | 25.1 (7.9) | | | | | |
| 30 | 18.0 (8.4) | 590 (288) | 453 (216) | 18.0 (8.4) | | | | | |
| 31 | | | | | | | | | |
| Mean | 27.7 | 578 | 523 | 27.7 | | | | | |
| n | 26 | 28 | 28 | 26 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.8 | 140 | 152 | 9.8 | | | | | |
| Min | 12.0 | 272 | 169 | 12.0 | | | | | |
| Max | 57.7 | 870 | 875 | 57.7 | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for January, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | 38.2 (13.8) | 757 (452) | 868 (472) | 38.2 (13.8) | | | | | |
| 5 | 36.7 (9.1) | 705 (521) | 832 (453) | 36.7 (9.1) | | | | | |
| 6 | 31.4 (9.5) | 542 (418) | 704 (428) | 31.4 (9.5) | | | | | |
| 7 | 33.5 (11.3) | 526 (349) | 528 (431) | 33.5 (11.3) | | | | | |
| 8 | 23.1 (8.3) | 365 (346) | 398 (367) | 23.1 (8.3) | | | | | |
| 9 | 22.2 (12.5) | 350 (479) | 458 (395) | 22.2 (12.5) | | | | | |
| 10 | 18.8 (7.1) | 689 (532) | 703 (527) | 18.8 (7.1) | | | | | |
| 11 | 19.7 (9.3) | 343 (272) | 314 (206) | 19.7 (9.3) | | | | | |
| 12 | 21.7 (9.4) | 674 (564) | 665 (516) | 21.7 (9.4) | | | | | |
| 13 | 30.8 (7.1) | 682 (560) | 731 (486) | 30.8 (7.1) | | | | | |
| 14 | 27.9 (14.8) | 657 (408) | 741 (482) | 27.9 (14.8) | | | | | |
| 15 | 36.9 (18.5) | 611 (525) | 742 (533) | 36.9 (18.5) | | | | | |
| 16 | | | | 33.2 (42.5) | | | | | |
| 17 | | | | 16.5 (8.3) | 33 (45) | 37 (57) | | | |
| 18 | | | | 20.9 (8.2) | 55 (22) | 64 (25) | | | |
| 19 | | | | 25.7 (12.8) | 62 (23) | 52 (35) | | | |
| 20 | | | | 14.6 (12.9) | 59 (29) | 70 (34) | | | |
| 21 | | | | 12.5 (5.1) | 39 (43) | 49 (50) | | | |
| 22 | | | | 13.3 (4.9) | 55 (27) | 68 (31) | | | |
| 23 | | | | 15.7 (6.5) | 47 (27) | 17 (45) | | | |
| 24 | | | | 15.3 (6.1) | 59 (30) | 31 (18) | | | |
| 25 | | | | 14.9 (8.0) | 66 (32) | 18 (33) | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | 18.0 (7.7) | 50 (32) | 41 (26) | | | |
| 29 | | | | 19.4 (7.1) | 43 (34) | 42 (32) | | | |
| 30 | | | | 12.6 (6.8) | 44 (50) | 26 (58) | | | |
| 31 | | | | 10.2 (4.0) | 52 (38) | 58 (34) | | | |
| Mean | 28.4 | 575 | 640 | 22.5 | 51 | 44 | | | |
| n | 12 | 12 | 12 | 26 | 13 | 13 | 0 | 0 | 0 |
| SD | 6.8 | 143 | 168 | 8.4 | 9 | 17 | | | |
| Min | 18.8 | 343 | 314 | 10.2 | 33 | 17 | | | |
| Max | 38.2 | 757 | 868 | 38.2 | 66 | 70 | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for February, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | 11.3 (4.4) | 32 (52) | 49 (36) | | | |
| 2 | | | | 12.9 (5.3) | 49 (37) | 56 (41) | | | |
| 3 | | | | 14.5 (5.3) | 47 (41) | 52 (42) | | | |
| 4 | | | | | | | | | |
| 5 | 47.0 (21.5) | 401 (288) | 452 (289) | | | | | | |
| 6 | 33.9 (16.3) | 321 (192) | 268 (159) | | | | | | |
| 7 | 35.0 (22.5) | 726 (402) | 648 (388) | | | | | | |
| 8 | 27.5 (12.4) | 814 (364) | 761 (396) | | | | | | |
| 9 | 63.9 (105.0) | 631 (342) | 595 (370) | | | | | | |
| 10 | 36.4 (24.1) | 696 (448) | 626 (378) | | | | | | |
| 11 | 35.6 (27.2) | 802 (406) | 798 (408) | | | | | | |
| 12 | 52.1 (25.2) | 580 (451) | 652 (438) | | | | | | |
| 13 | 18.2 (12.0) | 702 (633) | 711 (622) | | | | | | |
| 14 | 20.2 (7.6) | 851 (366) | 856 (391) | | | | | | |
| 15 | 33.6 (9.1) | 720 (334) | 762 (365) | | | | | | |
| 16 | 31.0 (8.9) | 823 (321) | 923 (351) | | | | | | |
| 17 | | | | | | | | | |
| 18 | 20.4 (10.7) | 285 (264) | 257 (320) | | | | | | |
| 19 | 25.1 (12.9) | 673 (356) | 767 (424) | | | | | | |
| 20 | 23.4 (15.6) | 881 (531) | 895 (486) | | | | | | |
| 21 | 25.1 (11.9) | 999 (491) | 962 (575) | | | | | | |
| 22 | 19.4 (6.9) | 857 (434) | 758 (548) | | | | | | |
| 23 | 30.7 (8.4) | 780 (616) | 708 (573) | | | | | | |
| 24 | 29.2 (7.0) | 724 (516) | 740 (683) | | | | | | |
| 25 | 26.4 (12.4) | 651 (479) | 674 (640) | | | | | | |
| 26 | 36.2 (12.7) | 503 (571) | 583 (442) | | | | | | |
| 27 | 13.7 (6.4) | 910 (617) | 1040 (725) | | | | | | |
| 28 | 26.3 (14.4) | 973 (404) | 1040 (448) | | | | | | |
| 29 | 31.5 (18.3) | 873 (395) | 909 (415) | | | | | | |
| Mean | 30.9 | 716 | 724 | 12.9 | 43 | 53 | | | |
| n | 24 | 24 | 24 | 3 | 3 | 3 | 0 | 0 | 0 |
| SD | 11.0 | 185 | 199 | 1.3 | 7 | 3 | | | |
| Min | 13.7 | 285 | 257 | 11.3 | 32 | 49 | | | |
| Max | 63.9 | 999 | 1040 | 14.5 | 49 | 56 | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for March, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 31.6 (14.2) | 761 (395) | 827 (438) | | | | | | |
| 2 | 38.8 (25.1) | 812 (369) | 852 (409) | | | | | | |
| 3 | 44.3 (29.6) | 485 (353) | 598 (331) | | | | | | |
| 4 | | | | | | | | | |
| 5 | 20.3 (9.5) | 478 (347) | 628 (444) | | | | | | |
| 6 | 28.6 (16.8) | 492 (312) | 644 (388) | | | | | | |
| 7 | 33.0 (17.3) | 547 (459) | 599 (496) | | | | | | |
| 8 | 50.8 (86.0) | 555 (510) | 517 (575) | | | | | | |
| 9 | 18.6 (6.7) | 866 (456) | 895 (562) | | | | | | |
| 10 | 220.0 (337.0) | 1310 (1050) | 792 (624) | | | | | | |
| 11 | 179.0 (248.0) | 1060 (1000) | 766 (697) | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | 30.4 (14.1) | 1000 (488) | 1090 (537) | | | | | | |
| 21 | 55.4 (76.6) | 865 (425) | 955 (466) | | | | | | |
| 22 | 117.0 (155.0) | 598 (345) | 685 (376) | | | | | | |
| 23 | 32.6 (34.2) | 890 (409) | 982 (442) | | | | | | |
| 24 | 77.7 (72.9) | 856 (408) | 1050 (517) | | | | | | |
| 25 | 101.0 (106.0) | 736 (381) | 964 (571) | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | 93.8 (33.6) | 1570 (1070) | 1710 (826) |
| 28 | | | | | | | 79.9 (33.0) | 819 (772) | 737 (719) |
| 29 | | | | | | | 30.7 (11.7) | 2030 (931) | 2330 (1160) |
| 30 | | | | | | | 20.8 (7.3) | 1990 (944) | 2240 (985) |
| 31 | | | | | | | 29.2 (9.9) | 1210 (664) | 1160 (792) |
| Mean | 67.4 | 770 | 803 | | | | 50.9 | 1520 | 1640 |
| n | 16 | 16 | 16 | 0 | 0 | 0 | 5 | 5 | 5 |
| SD | 57.2 | 230 | 172 | | | | 29.9 | 462 | 615 |
| Min | 18.6 | 478 | 517 | | | | 20.8 | 819 | 737 |
| Max | 220.0 | 1310 | 1090 | | | | 93.8 | 2030 | 2330 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for April, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | | | | 44.9 (20.7) | 545 (463) | 224 (319) |
| 2 | | | | | | | 37.3 (18.0) | 1330 (1070) | 568 (672) |
| 3 | | | | | | | 22.0 (7.5) | 1480 (790) | 513 (508) |
| 4 | | | | | | | | | |
| 5 | 19.0 (6.1) | 510 (230) | 516 (260) | | | | | | |
| 6 | 16.4 (6.5) | 715 (287) | 758 (393) | | | | | | |
| 7 | 15.3 (4.7) | 717 (608) | 653 (308) | | | | | | |
| 8 | 27.0 (9.2) | 774 (428) | 549 (296) | | | | | | |
| 9 | 20.4 (10.1) | 609 (312) | 163 (143) | | | | | | |
| 10 | 23.3 (15.4) | 329 (290) | -28 (76) | | | | | | |
| 11 | 26.3 (12.4) | 240 (193) | -87 (134) | | | | | | |
| 12 | 24.7 (10.9) | 310 (562) | -141 (119) | | | | | | |
| 13 | 16.4 (6.7) | 655 (417) | -129 (99) | | | | | | |
| 14 | 22.1 (9.7) | 718 (368) | 82 (126) | | | | | | |
| 15 | 26.8 (13.7) | 569 (418) | 60 (89) | | | | | | |
| 16 | 55.6 (48.1) | 670 (552) | 48 (82) | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | 40.3 (9.0) | 436 (344) | 65 (54) | | | | | | |
| 20 | 20.7 (11.8) | 494 (496) | 23 (53) | | | | | | |
| 21 | 17.3 (6.9) | 561 (508) | 43 (42) | | | | | | |
| 22 | | | | | | | | | |
| 23 | 37.6 (14.1) | 408 (393) | 43 (15) | | | | | | |
| 24 | 35.4 (22.4) | 359 (199) | 58 (67) | | | | | | |
| 25 | 45.0 (19.3) | 322 (187) | 45 (20) | | | | | | |
| 26 | 40.2 (14.1) | 308 (175) | 46 (15) | | | | | | |
| 27 | 45.1 (27.5) | 343 (164) | 30 (10) | | | | | | |
| 28 | 22.8 (8.2) | 307 (184) | 69 (69) | | | | | | |
| 29 | 21.9 (5.3) | 656 (294) | 443 (278) | | | | | | |
| 30 | 38.5 (28.2) | 744 (423) | 479 (267) | | | | | | |
| Mean | 28.6 | 511 | 165 | | | | 34.8 | 1120 | 435 |
| n | 23 | 23 | 23 | 0 | 0 | 0 | 3 | 3 | 3 |
| SD | 11.0 | 170 | 253 | | | | 9.5 | 409 | 151 |
| Min | 15.3 | 240 | -141 | | | | 22.0 | 545 | 224 |
| Max | 55.6 | 774 | 758 | | | | 44.9 | 1480 | 568 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for May, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 40.3 (16.0) | 436 (286) | 417 (373) | | | | | | |
| 2 | 53.7 (31.7) | 358 (275) | 320 (335) | | | | | | |
| 3 | 46.0 (17.0) | 311 (245) | 166 (79) | | | | | | |
| 4 | 30.9 (9.3) | 279 (173) | 144 (65) | | | | | | |
| 5 | 42.0 (9.2) | 508 (320) | 265 (117) | | | | | | |
| 6 | 60.2 (41.6) | 431 (332) | 322 (218) | | | | | | |
| 7 | 55.0 (21.5) | 356 (289) | 240 (175) | | | | | | |
| 8 | 33.8 (10.1) | 267 (157) | 163 (85) | | | | | | |
| 9 | 35.2 (14.2) | 176 (193) | 138 (105) | | | | | | |
| 10 | 26.0 (12.3) | 415 (321) | 215 (152) | | | | | | |
| 11 | 15.0 (5.3) | 628 (349) | 481 (223) | | | | | | |
| 12 | | | | | | | | | |
| 13 | | | | | | | 38.2 (51.6) | 1790 (898) | 679 (448) |
| 14 | | | | | | | 54.8 (29.3) | 1310 (797) | 572 (473) |
| 15 | | | | | | | 76.0 (48.0) | 789 (612) | 365 (188) |
| 16 | | | | | | | 44.8 (25.7) | 439 (312) | 266 (169) |
| 17 | | | | | | | 43.3 (21.2) | 842 (585) | 417 (360) |
| 18 | | | | | | | 46.5 (19.7) | 880 (627) | 381 (208) |
| 19 | | | | | | | 50.4 (29.5) | 929 (804) | 336 (252) |
| 20 | | | | | | | 57.6 (31.4) | 702 (539) | 267 (152) |
| 21 | | | | | | | 45.7 (24.4) | 831 (660) | 370 (281) |
| 22 | | | | | | | 58.6 (34.2) | 945 (766) | 386 (328) |
| 23 | | | | | | | 57.7 (37.8) | 1090 (975) | 368 (260) |
| 24 | | | | | | | 30.4 (16.3) | 1020 (773) | 292 (233) |
| 25 | | | | | | | 36.8 (30.6) | 1060 (974) | 298 (300) |
| 26 | | | | | | | 54.7 (17.9) | 756 (767) | 224 (266) |
| 27 | | | | | | | 63.2 (34.9) | 461 (592) | 190 (119) |
| 28 | | | | | | | | | |
| 29 | 30.7 (22.5) | 663 (357) | 266 (184) | | | | | | |
| 30 | 38.4 (14.3) | 418 (336) | 213 (114) | | | | | | |
| 31 | 50.0 (24.9) | 199 (92) | 151 (86) | | | | | | |
| Mean | 39.8 | 389 | 250 | | | | 50.6 | 923 | 361 |
| n | 14 | 14 | 14 | 0 | 0 | 0 | 15 | 15 | 15 |
| SD | 12.0 | 138 | 101 | | | | 11.2 | 318 | 122 |
| Min | 15.0 | 176 | 138 | | | | 30.4 | 439 | 190 |
| Max | 60.2 | 663 | 481 | | | | 76.0 | 1790 | 679 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for June, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 73.3 (108.0) | 215 (110) | 148 (77) | | | | | | |
| 2 | 47.5 (31.7) | 490 (309) | 182 (111) | | | | | | |
| 3 | 43.1 (26.4) | 376 (344) | 185 (88) | | | | | | |
| 4 | 56.7 (26.4) | 84 (43) | 153 (67) | | | | | | |
| 5 | 66.2 (25.4) | 62 (88) | 149 (80) | | | | | | |
| 6 | 104.0 (77.7) | 97 (120) | 176 (97) | | | | | | |
| 7 | 44.8 (10.0) | 54 (96) | 128 (89) | | | | | | |
| 8 | 51.0 (17.7) | 68 (93) | 144 (89) | | | | | | |
| 9 | 61.7 (30.6) | 85 (151) | 191 (146) | | | | | | |
| 10 | 69.4 (17.7) | 92 (70) | 317 (412) | | | | | | |
| 11 | 53.3 (24.4) | 94 (75) | 145 (66) | | | | | | |
| 12 | 56.2 (38.0) | 85 (83) | 123 (77) | | | | | | |
| 13 | 147.0 (96.3) | 180 (144) | 214 (149) | | | | | | |
| 14 | 50.9 (23.3) | 111 (180) | 118 (92) | | | | | | |
| 15 | 25.6 (9.2) | 27 (73) | 81 (80) | | | | | | |
| 16 | 43.3 (49.4) | 42 (84) | 106 (94) | | | | | | |
| 17 | 46.3 (57.7) | 31 (72) | 83 (70) | | | | | | |
| 18 | 32.8 (15.0) | 217 (175) | 163 (139) | | | | | | |
| 19 | 41.0 (20.0) | 292 (246) | 166 (151) | | | | | | |
| 20 | 35.7 (13.6) | 179 (139) | 98 (93) | | | | | | |
| 21 | 33.4 (10.7) | 176 (130) | 91 (86) | | | | | | |
| 22 | 34.9 (12.2) | 161 (96) | 84 (65) | | | | | | |
| 23 | 33.4 (8.9) | 149 (107) | 76 (82) | | | | | | |
| 24 | 39.5 (22.8) | | | | | | | | |
| 25 | 52.5 (29.0) | 236 (101) | 159 (73) | | | | | | |
| 26 | 49.4 (9.6) | 160 (57) | 102 (33) | | | | | | |
| 27 | 58.7 (27.5) | 198 (79) | 127 (51) | | | | | | |
| 28 | 41.1 (8.0) | 166 (78) | 108 (41) | | | | | | |
| 29 | 37.2 (15.3) | 190 (85) | 115 (54) | | | | | | |
| 30 | 29.6 (19.1) | 168 (95) | 95 (61) | | | | | | |
| Mean | 52.0 | 155 | 139 | | | | | | |
| n | 30 | 29 | 29 | 0 | 0 | 0 | 0 | 0 | 0 |
| SD | 23.5 | 101 | 50 | | | | | | |
| Min | 25.6 | 27 | 76 | | | | | | |
| Max | 147.0 | 490 | 317 | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for July, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 30.5 (15.4) | 169 (85) | 114 (56) | | | | | | |
| 2 | 42.1 (20.1) | 183 (97) | 123 (68) | | | | | | |
| 3 | 52.9 (19.3) | 192 (86) | 125 (52) | | | | | | |
| 4 | 40.3 (12.9) | 198 (119) | 108 (53) | | | | | | |
| 5 | 28.1 (10.6) | 200 (157) | 92 (62) | | | | | | |
| 6 | 29.4 (10.4) | 147 (95) | 84 (51) | | | | | | |
| 7 | 25.6 (8.1) | 140 (86) | 87 (51) | | | | | | |
| 8 | 32.2 (15.1) | 144 (131) | 86 (65) | | | | | | |
| 9 | 29.1 (12.9) | 189 (169) | 119 (86) | | | | | | |
| 10 | 37.8 (16.1) | 212 (126) | 125 (74) | | | | | | |
| 11 | 37.8 (15.6) | 188 (103) | 97 (58) | | | | | | |
| 12 | 48.0 (13.0) | 200 (124) | 126 (81) | | | | | | |
| 13 | 47.7 (10.1) | 218 (126) | 126 (66) | | | | | | |
| 14 | 34.0 (15.1) | 214 (156) | 110 (56) | | | | | | |
| 15 | 38.8 (13.7) | 167 (105) | 113 (75) | | | | | | |
| 16 | 52.4 (14.3) | 168 (102) | 156 (117) | | | | | | |
| 17 | 49.9 (15.3) | 185 (117) | 135 (78) | | | | | | |
| 18 | 37.1 (22.2) | 283 (349) | 178 (126) | | | | | | |
| 19 | 30.7 (11.0) | 181 (108) | 112 (59) | | | | | | |
| 20 | 32.5 (11.0) | 149 (80) | 101 (52) | | | | | | |
| 21 | 40.9 (12.6) | 163 (80) | 124 (56) | | | | | | |
| 22 | 48.8 (18.6) | 179 (93) | 134 (61) | | | | | | |
| 23 | 37.0 (14.5) | 165 (101) | 112 (60) | | | | | | |
| 24 | 22.5 (5.9) | 139 (88) | 101 (62) | | | | | | |
| 25 | 37.2 (18.1) | 179 (129) | 135 (91) | | | | | | |
| 26 | 64.1 (55.0) | 166 (80) | 111 (51) | | | | | | |
| 27 | 42.6 (13.0) | 142 (84) | 101 (54) | | | | | | |
| 28 | 41.9 (20.5) | 153 (85) | 115 (70) | | | | | | |
| 29 | 47.6 (9.3) | 157 (77) | 127 (57) | | | | | | |
| 30 | 41.2 (20.1) | 170 (146) | 147 (116) | | | | | | |
| 31 | 30.7 (14.3) | 138 (84) | 120 (70) | | | | | | |
| Mean | 39.1 | 177 | 118 | | | | | | |
| n | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.2 | 30 | 20 | | | | | | |
| Min | 22.5 | 138 | 84 | | | | | | |
| Max | 64.1 | 283 | 178 | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for August, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 34.9 (15.3) | 115 (86) | 105 (74) | | | | | | |
| 2 | 39.8 (13.2) | 127 (119) | 118 (89) | | | | | | |
| 3 | 37.1 (20.0) | 147 (89) | 133 (80) | | | | | | |
| 4 | 44.7 (13.3) | 152 (100) | 130 (80) | | | | | | |
| 5 | 47.1 (12.3) | 200 (163) | 175 (137) | | | | | | |
| 6 | 44.4 (14.0) | 170 (112) | 144 (89) | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | 28.3 (9.2) | 122 (102) | 119 (96) |
| 9 | | | | | | | 39.0 (17.5) | 162 (99) | 152 (92) |
| 10 | | | | | | | 34.3 (12.4) | 135 (87) | 112 (73) |
| 11 | | | | | | | 21.9 (7.4) | 115 (111) | 112 (99) |
| 12 | | | | | | | 45.5 (31.9) | 276 (199) | 298 (224) |
| 13 | | | | | | | 39.9 (22.1) | 190 (136) | 166 (100) |
| 14 | | | | | | | 51.2 (22.7) | 175 (122) | 197 (123) |
| 15 | | | | | | | 45.7 (22.7) | 178 (138) | 165 (125) |
| 16 | | | | | | | 49.0 (27.5) | 184 (147) | 189 (182) |
| 17 | | | | | | | 62.0 (14.6) | 191 (141) | 163 (120) |
| 18 | | | | | | | 58.0 (15.9) | 201 (146) | 183 (132) |
| 19 | | | | | | | 74.7 (26.8) | 238 (201) | 186 (167) |
| 20 | | | | | | | 57.3 (21.0) | 205 (157) | 156 (121) |
| 21 | | | | | | | 33.6 (12.0) | | |
| 22 | | 144 (66) | 108 (52) | | | | 23.0 (10.3) | | |
| 23 | | 106 (60) | 88 (56) | | | | 19.9 (12.3) | | |
| 24 | | 114 (65) | 89 (52) | | | | 22.3 (15.0) | | |
| 25 | | 119 (63) | 97 (54) | | | | 44.6 (33.1) | | |
| 26 | | 111 (59) | 95 (51) | | | | 34.2 (14.4) | | |
| 27 | | 65 (29) | 52 (23) | | | | 11.8 (5.9) | | |
| 28 | | 117 (109) | 98 (93) | | | | 10.6 (19.8) | | |
| 29 | | 119 (66) | 107 (57) | | | | 17.3 (21.0) | | |
| 30 | | 118 (69) | 110 (65) | | | | 31.8 (12.9) | | |
| 31 | | 124 (73) | 119 (73) | | | | 33.0 (18.2) | | |
| Mean | 41.3 | 128 | 110 | | | | 37.0 | 182 | 169 |
| n | 6 | 16 | 16 | 0 | 0 | 0 | 24 | 13 | 13 |
| SD | 4.4 | 29 | 27 | | | | 16.1 | 43 | 46 |
| Min | 34.9 | 65 | 52 | | | | 10.6 | 115 | 112 |
| Max | 47.1 | 200 | 175 | | | | 74.7 | 276 | 298 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for September, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 28.9 (12.8) | 147 (97) | 144 (109) | | | | 28.9 (12.8) | | |
| 2 | 30.6 (8.8) | 157 (84) | 184 (128) | | | | 30.6 (8.8) | | |
| 3 | 56.3 (20.1) | 164 (95) | 157 (88) | | | | 56.3 (20.1) | | |
| 4 | 52.2 (16.1) | 267 (209) | 190 (126) | | | | 52.2 (16.1) | | |
| 5 | 27.0 (13.7) | 138 (179) | 137 (119) | | | | 27.0 (13.7) | | |
| 6 | 20.4 (15.3) | 72 (62) | 77 (60) | | | | 20.4 (15.3) | | |
| 7 | 30.1 (10.7) | 128 (89) | 116 (79) | | | | 30.1 (10.7) | | |
| 8 | 38.1 (16.9) | 137 (89) | 122 (78) | | | | 38.1 (16.9) | | |
| 9 | 28.3 (13.8) | 107 (71) | 93 (63) | | | | 28.3 (13.8) | | |
| 10 | 24.1 (10.5) | 87 (40) | 79 (39) | | | | 24.1 (10.5) | | |
| 11 | 28.1 (11.6) | 122 (96) | 116 (88) | | | | | | |
| 12 | 39.0 (15.2) | 94 (54) | 91 (55) | | | | | | |
| 13 | 36.7 (15.6) | 101 (99) | 116 (170) | | | | | | |
| 14 | 34.9 (13.9) | 95 (61) | 96 (60) | | | | | | |
| 15 | 26.3 (12.3) | 133 (98) | 122 (106) | | | | | | |
| 16 | 25.2 (8.4) | 137 (88) | 153 (97) | | | | | | |
| 17 | 35.2 (14.0) | 172 (113) | 190 (117) | | | | | | |
| 18 | 34.7 (15.1) | 291 (175) | 298 (164) | | | | | | |
| 19 | 42.7 (18.4) | 234 (165) | 259 (169) | | | | | | |
| 20 | 26.2 (12.3) | 258 (191) | 278 (209) | | | | | | |
| 21 | 28.4 (13.4) | 208 (148) | 197 (144) | | | | | | |
| 22 | 42.0 (18.6) | 192 (115) | 204 (143) | | | | | | |
| 23 | 44.0 (14.5) | 195 (125) | 229 (129) | | | | | | |
| 24 | 34.5 (17.1) | 269 (180) | 309 (200) | | | | | | |
| 25 | 21.4 (9.0) | 321 (197) | 318 (189) | | | | | | |
| 26 | 28.9 (14.3) | 99 (78) | 88 (80) | | | | | | |
| 27 | 27.9 (19.9) | 104 (107) | 93 (110) | | | | | | |
| 28 | 28.6 (11.7) | 108 (89) | 107 (85) | | | | | | |
| 29 | 35.9 (20.7) | 131 (135) | 131 (118) | | | | | | |
| 30 | 57.8 (20.0) | 188 (137) | 209 (149) | | | | | | |
| Mean | 33.8 | 162 | 163 | | | | 33.6 | | |
| n | 30 | 30 | 30 | 0 | 0 | 0 | 10 | 0 | 0 |
| SD | 9.4 | 66 | 71 | | | | 11.2 | | |
| Min | 20.4 | 72 | 77 | | | | 20.4 | | |
| Max | 57.8 | 321 | 318 | | | | 56.3 | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for October, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 25.3 (8.4) | 268 (244) | 294 (236) | | | | | | |
| 2 | 39.5 (25.8) | 535 (413) | 537 (380) | | | | | | |
| 3 | 54.7 (44.6) | 483 (311) | 491 (318) | | | | | | |
| 4 | 49.4 (28.7) | 413 (251) | 368 (259) | | | | | | |
| 5 | 56.8 (36.7) | 359 (227) | 316 (236) | | | | | | |
| 6 | 56.0 (24.8) | 346 (216) | 326 (231) | | | | | | |
| 7 | 35.4 (13.9) | 479 (264) | 459 (264) | | | | | | |
| 8 | 53.9 (28.4) | 432 (237) | 390 (250) | | | | | | |
| 9 | 42.3 (17.7) | 244 (156) | 218 (170) | | | | | | |
| 10 | 36.7 (13.8) | 256 (128) | 221 (111) | | | | | | |
| 11 | 35.4 (11.5) | 344 (195) | 304 (165) | | | | | | |
| 12 | 29.5 (12.4) | 335 (226) | 301 (213) | | | | | | |
| 13 | 21.4 (11.7) | 371 (249) | 331 (235) | | | | | | |
| 14 | 39.5 (33.0) | 361 (253) | 313 (260) | | | | | | |
| 15 | 50.3 (33.5) | 326 (247) | 287 (272) | | | | | | |
| 16 | 72.1 (32.7) | 338 (227) | 328 (255) | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | 21.0 (10.2) | 1590 (813) | 1870 (1010) |
| 19 | | | | | | | 17.1 (10.4) | 1570 (815) | 1780 (944) |
| 20 | | | | | | | 25.1 (20.0) | 1490 (862) | 1670 (922) |
| 21 | | | | | | | 46.7 (29.3) | 1340 (823) | 1480 (893) |
| 22 | | | | | | | 52.8 (27.5) | 1640 (985) | 1890 (1380) |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | 4.0 (5.6) | 4 (324) | 5 (260) | | | |
| 26 | | | | 10.5 (8.2) | -1 (336) | 2 (369) | | | |
| 27 | | | | 7.5 (8.6) | 21 (227) | 38 (387) | | | |
| 28 | | | | 3.8 (6.0) | 32 (172) | 43 (280) | | | |
| 29 | | | | 5.7 (7.5) | 42 (234) | 38 (275) | | | |
| 30 | | | | | | | | | |
| 31 | 28.4 (18.1) | 599 (310) | 697 (366) | | | | | | |
| Mean | 42.7 | 382 | 364 | 6.3 | 20 | 25 | 32.5 | 1530 | 1740 |
| n | 17 | 17 | 17 | 5 | 5 | 5 | 5 | 5 | 5 |
| SD | 13.1 | 95 | 118 | 2.5 | 16 | 18 | 14.4 | 104 | 149 |
| Min | 21.4 | 244 | 218 | 3.8 | -1 | 2 | 17.1 | 1340 | 1480 |
| Max | 72.1 | 599 | 697 | 10.5 | 42 | 43 | 52.8 | 1640 | 1890 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for November, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 38.1 (21.4) | 502 (301) | 590 (348) | | | | | | |
| 2 | 35.5 (15.2) | 472 (280) | 565 (326) | | | | | | |
| 3 | 46.0 (12.9) | 495 (327) | 563 (307) | | | | | | |
| 4 | 21.8 (8.5) | 381 (259) | 434 (235) | | | | | | |
| 5 | 20.8 (7.3) | 373 (237) | 426 (238) | | | | | | |
| 6 | 25.8 (21.4) | 395 (254) | 410 (259) | | | | | | |
| 7 | 34.3 (25.0) | 387 (245) | 425 (310) | | | | | | |
| 8 | 31.1 (11.9) | 400 (305) | 447 (304) | | | | | | |
| 9 | 18.6 (10.2) | 466 (300) | 576 (406) | | | | | | |
| 10 | 23.0 (15.1) | 467 (296) | 632 (376) | | | | | | |
| 11 | 27.7 (23.5) | 498 (406) | 652 (377) | | | | | | |
| 12 | 23.6 (10.2) | 358 (267) | 567 (407) | | | | | | |
| 13 | 16.1 (7.9) | 382 (391) | 527 (407) | | | | | | |
| 14 | 17.1 (7.5) | 543 (305) | 563 (304) | | | | | | |
| 15 | 21.7 (21.4) | 280 (213) | 267 (195) | | | | | | |
| 16 | 23.3 (22.6) | 829 (389) | 827 (401) | | | | | | |
| 17 | 14.2 (11.2) | 826 (378) | 837 (380) | | | | | | |
| 18 | 9.5 (6.4) | 859 (440) | 879 (473) | | | | | | |
| 19 | 18.1 (13.4) | 763 (376) | 814 (420) | | | | | | |
| 20 | 31.5 (17.0) | 894 (537) | 836 (508) | | | | | | |
| 21 | 8.2 (7.3) | 839 (461) | 853 (486) | | | | | | |
| 22 | 14.3 (9.8) | 779 (426) | 831 (436) | | | | | | |
| 23 | 21.0 (11.7) | 728 (397) | 841 (484) | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | 20.9 (12.0) | 849 (361) | 930 (397) | | | | | | |
| 28 | 31.0 (14.5) | 691 (335) | 828 (403) | | | | | | |
| 29 | 18.6 (5.8) | 641 (458) | 877 (469) | | | | | | |
| 30 | 8.6 (6.3) | 140 (168) | 654 (349) | | | | | | |
| Mean | 23.0 | 564 | 654 | | | | | | |
| n | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.0 | 207 | 182 | | | | | | |
| Min | 8.2 | 140 | 267 | | | | | | |
| Max | 46.0 | 894 | 930 | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for December, 2008.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 16.3 (9.2) | 143 (152) | 696 (394) | | | | | | |
| 2 | 15.5 (8.5) | 189 (168) | 756 (392) | | | | | | |
| 3 | 18.0 (10.7) | 154 (136) | 739 (376) | | | | | | |
| 4 | 24.2 (8.6) | 157 (170) | 721 (422) | | | | | | |
| 5 | 11.0 (9.2) | 177 (177) | 847 (485) | | | | | | |
| 6 | 16.3 (7.6) | 155 (202) | 794 (474) | | | | | | |
| 7 | 14.0 (8.4) | 146 (199) | 776 (495) | | | | | | |
| 8 | 24.1 (17.8) | 182 (188) | 870 (510) | | | | | | |
| 9 | 18.4 (13.2) | 154 (242) | 691 (488) | | | | | | |
| 10 | 20.1 (9.6) | 51 (144) | 284 (288) | | | | | | |
| 11 | 7.4 (7.8) | 161 (228) | 314 (213) | | | | | | |
| 12 | 8.2 (10.7) | 853 (408) | 1000 (470) | | | | | | |
| 13 | 13.8 (7.2) | 935 (422) | 1070 (476) | | | | | | |
| 14 | 16.7 (6.8) | 778 (354) | 889 (416) | | | | | | |
| 15 | 22.5 (14.0) | 518 (294) | 625 (412) | | | | | | |
| 16 | 11.6 (7.9) | 644 (424) | 684 (404) | | | | | | |
| 17 | 19.3 (10.1) | 630 (394) | 648 (409) | | | | | | |
| 18 | 23.2 (10.0) | 679 (447) | 631 (387) | | | | | | |
| 19 | 29.4 (10.2) | 640 (487) | 732 (467) | | | | | | |
| 20 | 21.9 (8.8) | 678 (584) | 720 (397) | | | | | | |
| 21 | 10.3 (10.3) | 780 (402) | 779 (433) | | | | | | |
| 22 | 13.5 (7.3) | 821 (440) | 779 (398) | | | | | | |
| 23 | 16.9 (6.9) | 832 (435) | 803 (442) | | | | | | |
| 24 | 24.1 (10.9) | 627 (358) | 718 (348) | | | | | | |
| 25 | 8.9 (8.7) | 623 (394) | 686 (381) | | | | | | |
| 26 | 20.6 (7.0) | 642 (312) | 706 (344) | | | | | | |
| 27 | 35.2 (12.1) | 576 (282) | 648 (372) | | | | | | |
| 28 | 28.5 (19.2) | 287 (158) | 299 (170) | | | | | | |
| 29 | 7.5 (9.1) | 880 (578) | 943 (596) | | | | | | |
| 30 | 26.1 (14.7) | 998 (583) | 1020 (613) | | | | | | |
| 31 | 19.5 (11.7) | 911 (487) | 937 (485) | | | | | | |
| Mean | 18.1 | 516 | 736 | | | | | | |
| n | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 0 |
| SD | 6.7 | 301 | 183 | | | | | | |
| Min | 7.4 | 51 | 284 | | | | | | |
| Max | 35.2 | 998 | 1070 | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for January, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 13.0 (8.8) | 836 (463) | 762 (398) | | | | | | |
| 2 | 20.0 (7.5) | 744 (383) | 677 (332) | | | | | | |
| 3 | 26.4 (13.6) | 729 (332) | 722 (344) | | | | | | |
| 4 | | | | | | | | | |
| 5 | 28.4 (9.7) | 571 (291) | 607 (315) | | | | | | |
| 6 | 13.1 (6.5) | 665 (322) | 622 (297) | | | | | | |
| 7 | 19.4 (12.8) | 573 (357) | 585 (442) | | | | | | |
| 8 | 15.2 (11.2) | 799 (417) | 693 (392) | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | 18.2 (11.3) | 2170 (1290) | 1530 (882) |
| 12 | | | | | | | 19.0 (10.5) | 2810 (1810) | 1450 (1200) |
| 13 | | | | | | | 18.3 (6.0) | 2150 (1310) | 1100 (931) |
| 14 | | | | | | | 16.0 (10.3) | 1730 (1360) | 925 (827) |
| 15 | | | | | | | | | |
| 16 | 18.4 (22.5) | 943 (478) | 567 (408) | | | | | | |
| 17 | | 845 (437) | 734 (393) | | | | | | |
| 18 | 22.5 (6.7) | 788 (409) | 726 (364) | | | | | | |
| 19 | 27.1 (7.9) | 760 (396) | 698 (351) | | | | | | |
| 20 | 28.9 (16.6) | 758 (468) | 678 (375) | | | | | | |
| 21 | 27.1 (7.6) | 924 (526) | 873 (505) | | | | | | |
| 22 | 34.8 (11.1) | 1250 (819) | 1060 (779) | | | | | | |
| 23 | 39.5 (10.0) | 1340 (639) | 1280 (722) | | | | | | |
| 24 | 23.7 (13.0) | 1200 (582) | 1190 (582) | | | | | | |
| 25 | 15.1 (5.9) | 1200 (631) | 1050 (545) | | | | | | |
| 26 | 16.7 (7.0) | 1080 (568) | 979 (543) | | | | | | |
| 27 | 27.4 (7.9) | 992 (487) | 899 (494) | | | | | | |
| 28 | 24.6 (16.0) | 657 (450) | 617 (449) | | | | | | |
| 29 | 9.6 (10.6) | 1240 (849) | 1180 (846) | | | | | | |
| 30 | 12.8 (7.7) | 1270 (611) | 1220 (605) | | | | | | |
| 31 | 15.2 (7.9) | 1240 (577) | 1140 (536) | | | | | | |
| Mean | 21.8 | 930 | 850 | | | | 17.9 | 2210 | 1250 |
| n | 22 | 23 | 23 | 0 | 0 | 0 | 4 | 4 | 4 |
| SD | 7.6 | 241 | 229 | | | | 1.1 | 385 | 247 |
| Min | 9.6 | 571 | 567 | | | | 16.0 | 1730 | 925 |
| Max | 39.5 | 1340 | 1280 | | | | 19.0 | 2810 | 1530 |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for February, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 28.1 (12.3) | 1100 (517) | 1030 (519) | | | | | | |
| 2 | 38.2 (15.8) | 1030 (539) | 939 (537) | | | | | | |
| 3 | 9.1 (9.4) | 1110 (581) | 930 (541) | | | | | | |
| 4 | 13.6 (6.7) | 1090 (603) | 845 (478) | | | | | | |
| 5 | 15.4 (10.6) | 1160 (762) | 1000 (698) | | | | | | |
| 6 | 42.2 (20.9) | 1350 (704) | 1180 (571) | | | | | | |
| 7 | 61.2 (66.7) | 988 (703) | 904 (457) | | | | | | |
| 8 | 57.0 (24.0) | 858 (862) | 719 (457) | | | | | | |
| 9 | 40.3 (19.4) | 997 (707) | 912 (475) | | | | | | |
| 10 | 89.3 (160.0) | 848 (609) | 646 (387) | | | | | | |
| 11 | 56.2 (38.4) | 567 (663) | 516 (372) | | | | | | |
| 12 | 37.6 (14.6) | 737 (689) | 754 (572) | | | | | | |
| 13 | 47.2 (22.4) | 966 (440) | 977 (586) | | | | | | |
| 14 | 32.7 (18.2) | 1020 (482) | 917 (589) | | | | | | |
| 15 | 26.9 (14.5) | 949 (481) | 870 (545) | | | | | | |
| 16 | 21.1 (8.6) | 937 (536) | 813 (550) | | | | | | |
| 17 | 28.5 (16.9) | 704 (375) | 761 (503) | | | | | | |
| 18 | 29.4 (7.1) | 370 (276) | 591 (451) | | | | | | |
| 19 | 25.0 (14.0) | 824 (973) | 1080 (986) | | | | | | |
| 20 | 30.7 (49.2) | 1570 (755) | 1410 (669) | | | | | | |
| 21 | 39.5 (57.0) | 1410 (728) | 1240 (651) | | | | | | |
| 22 | 52.8 (103.0) | 1350 (667) | 1110 (591) | | | | | | |
| 23 | 32.5 (36.5) | 1160 (617) | 1040 (581) | | | | | | |
| 24 | 58.6 (88.3) | 1130 (675) | 922 (544) | | | | | | |
| 25 | 36.9 (24.5) | 1010 (595) | 873 (634) | | | | | | |
| 26 | 64.0 (51.9) | 915 (685) | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | 21.4 (14.7) | 2740 (1410) | |
| Mean | 39.0 (35.0) | 1010 (624) | 919 (558) | | | | | | |
| n | 26.0 | 26 | 25 | 0.0 | 0 | 0 | 1.0 | 1 | 0 |
| SD | 18 | 254 | 197 | | | | | | |
| Min | 9.1 | 370 | 516 | | | | | | |
| Max | 89.3 | 1570 | 1410 | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for March, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | | | | 12.8 (8.4) | 2870 (1430) | |
| 2 | | | | | | | | | |
| 3 | | | | | | | 16.5 (6.8) | 2620 (1460) | |
| 4 | | | | | | | | | |
| 5 | 37.9 (16.9) | 1260 (600) | | | | | | | |
| 6 | 57.4 (40.0) | 818 (506) | | | | | | | |
| 7 | 55.5 (17.8) | 596 (435) | | | | | | | |
| 8 | 80.7 (101.0) | 477 (427) | | | | | | | |
| 9 | 70.3 (39.0) | 422 (290) | | | | | | | |
| 10 | 58.2 (51.0) | 1040 (590) | | | | | | | |
| 11 | 61.7 (48.5) | 429 (322) | | | | | | | |
| 12 | 31.2 (19.9) | 1270 (1010) | | | | | | | |
| 13 | 19.9 (9.9) | 1410 (883) | | | | | | | |
| 14 | 15.8 (6.2) | 1320 (824) | | | | | | | |
| 15 | 11.1 (6.2) | 1140 (884) | | | | | | | |
| 16 | 21.6 (10.8) | 1460 (1660) | | | | | | | |
| 17 | 20.3 (13.1) | 983 (554) | | | | | | | |
| 18 | 37.9 (33.6) | 708 (803) | | | | | | | |
| 19 | 41.5 (30.4) | 872 (547) | | | | | | | |
| 20 | 20.7 (13.8) | 1280 (584) | | | | | | | |
| 21 | 24.0 (10.4) | 1280 (614) | | | | | | | |
| 22 | 28.8 (16.8) | 990 (539) | | | | | | | |
| 23 | 180.0 (204.0) | 2340 (2060) | | | | | | | |
| 24 | 232.0 (212.0) | 1960 (1650) | | | | | | | |
| 25 | 56.5 (54.1) | 1830 (894) | | | | | | | |
| 26 | 155.0 (215.0) | 1070 (696) | | | | | | | |
| 27 | 64.8 (137.0) | 971 (555) | | | | | | | |
| 28 | 23.9 (13.9) | 571 (299) | | | | | | | |
| 29 | 32.1 (23.4) | 460 (377) | | | | | | | |
| 30 | 30.9 (14.4) | 1100 (641) | | | | | | | |
| 31 | 147.0 (201.0) | 1070 (652) | | | | | | | |
| Mean | 59.8 | 1080 | | | | | 14.6 | 2740 | |
| n | 27 | 27 | 0 | 0 | 0 | 0 | 2 | 2 | 0 |
| SD | 54.0 | 462 | | | | | 1.8 | 121 | |
| Min | 11.1 | 422 | | | | | 12.8 | 2620 | |
| Max | 232.0 | 2340 | | | | | 16.5 | 2870 | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for April, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 25.6 (9.9) | 859 (519) | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | 90.3 (103.0) | 1210 (657) | |
| 4 | | | | | | | 68.3 (36.6) | 2080 (1230) | |
| 5 | | | | | | | 66.2 (35.1) | 1520 (1270) | |
| 6 | | | | | | | 60.8 (42.7) | 1490 (1020) | |
| 7 | | | | | | | 84.7 (70.6) | 2940 (1570) | |
| 8 | | | | | | | 61.7 (28.5) | 2840 (1670) | |
| 9 | | | | | | | 59.6 (27.6) | 2030 (1590) | |
| 10 | | | | | | | | | |
| 11 | 30.9 (18.8) | 924 (483) | | | | | | | |
| 12 | 27.1 (20.5) | 1150 (584) | | | | | | | |
| 13 | 33.1 (27.8) | 1150 (616) | | | | | | | |
| 14 | 28.3 (12.3) | 535 (362) | | | | | | | |
| 15 | 15.5 (8.4) | 943 (510) | | | | | | | |
| 16 | 27.0 (16.5) | 1040 (580) | | | | | | | |
| 17 | 42.5 (29.9) | 942 (579) | | | | | | | |
| 18 | 70.4 (68.8) | 646 (511) | | | | | | | |
| 19 | 49.6 (19.1) | 779 (402) | | | | | | | |
| 20 | 33.5 (17.3) | 452 (324) | | | | | | | |
| 21 | 29.6 (19.9) | 725 (447) | | | | | | | |
| 22 | 34.6 (21.9) | 1010 (551) | | | | | | | |
| 23 | 64.8 (35.2) | 752 (547) | | | | | | | |
| 24 | 62.8 (36.8) | 641 (564) | | | | | | | |
| 25 | 56.8 (31.6) | 260 (132) | | | | | | | |
| 26 | 51.4 (17.0) | 327 (236) | | | | | | | |
| 27 | 55.4 (24.1) | 357 (299) | | | | | | | |
| 28 | 61.0 (33.6) | 480 (393) | | | | | | | |
| 29 | 45.9 (19.2) | 548 (324) | | | | | | | |
| 30 | 29.0 (15.1) | 802 (389) | | | | | | | |
| Mean | 41.7 | 729 | | | | | 70.2 | 2010 | |
| n | 21 | 21 | 0 | 0 | 0 | 0 | 7 | 7 | 0 |
| SD | 15.3 | 261 | | | | | 11.4 | 623 | |
| Min | 15.5 | 260 | | | | | 59.6 | 1210 | |
| Max | 70.4 | 1150 | | | | | 90.3 | 2940 | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for May, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 46.5 (23.3) | 323 (211) | | | | | | | |
| 2 | | | | | | | | | |
| 3 | 52.3 (28.6) | 263 (177) | | | | | | | |
| 4 | 54.7 (30.5) | 281 (174) | | | | | | | |
| 5 | 18.5 (10.0) | 583 (387) | | | | | | | |
| 6 | 29.9 (19.4) | 391 (256) | | | | | | | |
| 7 | 38.3 (24.2) | 283 (180) | | | | | | | |
| 8 | 41.3 (22.6) | 334 (280) | | | | | | | |
| 9 | | | | | | | | | |
| 10 | 30.1 (29.0) | 536 (346) | | | | | | | |
| 11 | 27.8 (13.3) | 1050 (568) | | | | | | | |
| 12 | 33.7 (30.0) | 695 (428) | | | | | | | |
| 13 | 36.7 (14.2) | 651 (375) | | | | | | | |
| 14 | 29.5 (21.5) | 495 (349) | | | | | | | |
| 15 | 20.0 (14.6) | 244 (188) | | | | | | | |
| 16 | 28.2 (18.5) | 197 (127) | | | | | | | |
| 17 | 19.4 (9.4) | 738 (579) | | | | | | | |
| 18 | 24.0 (12.1) | 1060 (549) | | | | | | | |
| 19 | 22.7 (10.0) | 945 (559) | | | | | | | |
| 20 | 23.8 (16.0) | 861 (473) | | | | | | | |
| 21 | 28.0 (16.3) | 842 (479) | | | | | | | |
| 22 | 36.3 (20.9) | 570 (400) | | | | | | | |
| 23 | 25.1 (16.6) | 472 (352) | | | | | | | |
| 24 | 25.9 (21.9) | 438 (308) | | | | | | | |
| 25 | 20.9 (10.4) | 360 (248) | | | | | | | |
| 26 | 19.6 (12.2) | 365 (204) | | | | | | | |
| 27 | 15.1 (9.5) | 363 (258) | | | | | | | |
| 28 | | | | | | | | | |
| 29 | 35.5 (23.6) | 397 (222) | | | | | | | |
| 30 | 24.7 (17.2) | 596 (388) | | | | | | | |
| 31 | 30.4 (14.5) | 515 (395) | | | | | | | |
| Mean | 30.0 | 530 | | | | | | | |
| n | 28 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SD | 9.8 | 241 | | | | | | | |
| Min | 15.1 | 197 | | | | | | | |
| Max | 54.7 | 1060 | | | | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for June, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 31.3 (17.7) | 555 (409) | | | | | | | |
| 2 | 47.9 (17.0) | 371 (288) | | | | | | | |
| 3 | 40.3 (21.4) | 306 (176) | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | 19.4 (19.1) | 904 (474) | |
| 6 | | | | | | | 27.6 (14.5) | 1410 (705) | |
| 7 | | | | | | | 29.7 (14.9) | 870 (623) | |
| 8 | | | | | | | 67.1 (88.7) | 564 (414) | |
| 9 | | | | | | | 53.5 (61.5) | 539 (691) | |
| 10 | | | | | | | 30.6 (19.2) | 804 (677) | |
| 11 | | | | | | | | | |
| 12 | 33.4 (16.6) | 308 (253) | | | | | | | |
| 13 | 26.2 (12.9) | 296 (237) | | | | | | | |
| 14 | 34.7 (14.6) | 363 (239) | | | | | | | |
| 15 | 31.0 (10.3) | 500 (307) | | | | | | | |
| 16 | 18.9 (9.2) | 689 (593) | | | | | | | |
| 17 | 24.6 (11.3) | 489 (333) | | | | | | | |
| 18 | 38.1 (17.6) | 313 (227) | | | | | | | |
| 19 | 36.2 (13.5) | 208 (148) | | | | | | | |
| 20 | 50.9 (15.4) | 170 (77) | | | | | | | |
| 21 | 28.7 (14.6) | 214 (96) | | | | | | | |
| 22 | 34.9 (20.1) | 294 (140) | | | | | | | |
| 23 | 32.8 (19.4) | 242 (116) | | | | | | | |
| 24 | 34.6 (9.0) | 228 (104) | | | | | | | |
| 25 | 43.4 (19.0) | 334 (188) | | | | | | | |
| 26 | 68.2 (36.4) | 270 (136) | | | | | | | |
| 27 | 44.6 (19.5) | 231 (119) | | | | | | | |
| 28 | 41.5 (17.7) | 304 (162) | | | | | | | |
| 29 | 72.4 (39.4) | 262 (148) | | | | | | | |
| 30 | 93.1 (42.9) | 346 (272) | | | | | | | |
| Mean | 41.3 | 331 | | | | | 38.0 | 848 | |
| n | 22 | 22 | 0 | 0 | 0 | 0 | 6 | 6 | 0 |
| SD | 16.8 | 123 | | | | | 16.7 | 287 | |
| Min | 18.9 | 170 | | | | | 19.4 | 539 | |
| Max | 93.1 | 689 | | | | | 67.1 | 1410 | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for July, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 84.0 (41.7) | 288 (174) | | | | | | | |
| 2 | 70.9 (55.6) | 339 (301) | | | | | | | |
| 3 | 32.1 (13.2) | 407 (326) | | | | | | | |
| 4 | 52.4 (24.7) | 307 (238) | | | | | | | |
| 5 | 68.5 (19.9) | 220 (131) | | | | | | | |
| 6 | 57.3 (19.6) | 203 (110) | | | | | | | |
| 7 | 52.6 (22.9) | 267 (182) | | | | | | | |
| 8 | 58.9 (21.9) | 284 (186) | | | | | | | |
| 9 | 40.3 (10.6) | 352 (225) | | | | | | | |
| 10 | 37.8 (13.1) | 282 (122) | | | | | | | |
| 11 | 47.1 (20.6) | 265 (125) | | | | | | | |
| 12 | 45.8 (19.7) | 195 (98) | | | | | | | |
| 13 | 28.6 (13.2) | 188 (94) | | | | | | | |
| 14 | 37.8 (22.9) | 253 (113) | | | | | | | |
| 15 | 64.0 (23.2) | 337 (251) | | | | | | | |
| 16 | 50.4 (34.8) | 195 (90) | | | | | | | |
| 17 | 28.7 (20.3) | 143 (117) | | | | | | | |
| 18 | 24.3 (11.3) | 166 (117) | | | | | | | |
| 19 | 31.9 (21.5) | 289 (161) | | | | | | | |
| 20 | | 188 (125) | | | | | | | |
| 21 | | 204 (125) | | | | | | | |
| 22 | | 485 (1030) | | | | | | | |
| 23 | 47.2 (32.1) | 372 (959) | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | 20.7 (12.7) | 42 (18) | | | | |
| 26 | | | | 23.6 (9.6) | 38 (15) | | | | |
| 27 | | | | 17.3 (12.0) | 34 (17) | | | | |
| 28 | | | | 21.3 (11.2) | 40 (15) | | | | |
| 29 | | | | 14.2 (13.1) | 30 (18) | | | | |
| 30 | | | | 14.6 (8.6) | 35 (17) | | | | |
| 31 | | | | 9.6 (11.7) | 28 (15) | | | | |
| Mean | 48.0 | 271 | | 17.3 | 35 | | | | |
| n | 20 | 23 | 0 | 7 | 7 | 0 | 0 | 0 | 0 |
| SD | 15.6 | 83 | | 4.5 | 5 | | | | |
| Min | 24.3 | 143 | | 9.6 | 28 | | | | |
| Max | 84.0 | 485 | | 23.6 | 42 | | | | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for August, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | | | | 12.5 (9.5) | 27 (15) | | | | |
| 2 | | | | 11.8 (7.8) | 24 (10) | | | | |
| 3 | | | | 13.2 (8.8) | 34 (22) | | | | |
| 4 | | | | 13.4 (10.4) | 35 (20) | | | | |
| 5 | | | | 21.7 (10.1) | 42 (18) | | | | |
| 6 | | | | 12.9 (5.8) | | | | | |
| 7 | | | | 21.2 (9.7) | | | | | |
| 8 | | 213 (94) | | 22.4 (9.3) | | | | | |
| 9 | | 181 (90) | | 25.5 (11.9) | | | | | |
| 10 | | 189 (89) | | 28.8 (10.0) | | | | | |
| 11 | | 174 (93) | | 16.5 (13.2) | | | | | |
| 12 | | 121 (76) | | 10.9 (8.3) | | | | | |
| 13 | | 158 (162) | | 13.5 (7.5) | | | | | |
| 14 | | 126 (79) | | 16.1 (12.2) | | | | | |
| 15 | | 124 (83) | | 11.2 (8.9) | | | | | |
| 16 | | 147 (98) | | 10.9 (9.5) | | | | | |
| 17 | | 153 (98) | | | | | | | |
| 18 | 59.2 (26.8) | 162 (102) | | | | | | | |
| 19 | 50.3 (23.7) | 152 (86) | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | 49.9 (29.2) | 248 (237) | |
| 22 | | | | | | | 34.3 (19.6) | 208 (204) | |
| 23 | | | | | | | 33.5 (24.8) | 267 (187) | |
| 24 | | | | | | | 31.7 (15.6) | 299 (209) | |
| 25 | | | | | | | 51.1 (18.4) | 313 (209) | |
| 26 | | | | | | | 65.0 (24.0) | 286 (172) | |
| 27 | | | | | | | | | |
| 28 | 43.8 (20.7) | 140 (94) | | | | | | | |
| 29 | 47.9 (25.3) | 136 (99) | | | | | | | |
| 30 | 33.5 (18.9) | 180 (102) | | | | | | | |
| 31 | 30.7 (9.6) | 347 (219) | | | | | | | |
| Mean | 44.2 | 169 | | 16.4 | 32 | | 44.2 | 270 | |
| n | 6 | 16 | 0 | 16 | 5 | 0 | 6 | 6 | 0 |
| SD | 9.8 | 52 | | 5.5 | 6 | | 12.1 | 35 | |
| Min | 30.7 | 121 | | 10.9 | 24 | | 31.7 | 208 | |
| Max | 59.2 | 347 | | 28.8 | 42 | | 65.0 | 313 | |

**Table E4. Daily characteristics of particulate matter concentrations at Site NC2B for September, 2009.**

| Day | $PM_{10}$, µg·dsm$^{-3}$ | | | $PM_{2.5}$, µg·dsm$^{-3}$ | | | TSP, µg·dsm$^{-3}$ | | |
|---|---|---|---|---|---|---|---|---|---|
| | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 | Inlet | House 3 | House 4 |
| 1 | 36.9 (22.4) | 386 (219) | | | | | | | |
| 2 | 33.1 (18.4) | 331 (221) | | | | | | | |
| 3 | 26.5 (14.9) | 240 (141) | | | | | | | |
| 4 | 24.9 (11.0) | 270 (154) | | | | | | | |
| 5 | 49.0 (34.6) | 262 (161) | | | | | | | |
| 6 | 43.9 (17.7) | 232 (119) | | | | | | | |
| 7 | 23.8 (12.0) | 146 (148) | | | | | | | |
| 8 | 14.3 (11.7) | 132 (83) | | | | | | | |
| 9 | 37.2 (21.4) | 278 (161) | | | | | | | |
| 10 | 27.7 (15.6) | 313 (173) | | | | | | | |
| 11 | 27.2 (21.9) | 373 (227) | | | | | | | |
| 12 | 36.8 (21.7) | 384 (262) | | | | | | | |
| 13 | 22.0 (14.2) | 364 (271) | | | | | | | |
| 14 | 42.6 (23.4) | 354 (280) | | | | | | | |
| 15 | | 435 (304) | | | | | | | |
| 16 | | 462 (232) | | | | | 53.0 (32.5) | | |
| 17 | | 465 (204) | | | | | 30.2 (9.6) | | |
| 18 | | 579 (273) | | | | | 38.1 (13.7) | | |
| 19 | | 604 (371) | | | | | 43.1 (20.0) | | |
| 20 | | 866 (440) | | | | | 39.6 (23.6) | | |
| 21 | | 812 (578) | | | | | 69.4 (93.9) | | |
| 22 | | 273 (253) | | | | | | | |
| 23 | 21.3 (13.3) | 105 (99) | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |
| Mean | 31.1 | 377 | | | | | 45.6 | | |
| n | 15 | 23 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| SD | 9.4 | 189 | | | | | 12.6 | | |
| Min | 14.3 | 105 | | | | | 30.2 | | |
| Max | 49.0 | 866 | | | | | 69.4 | | |

## Table E5. Emissions of $PM_{10}$.

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for September, 2007.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | 1780 (1060) | 564 (335) | 19.3 (11.5) | 6.48 (3.85) |
| 26 | | | | | 1780 (2080) | 565 (660) | 19.3 (22.6) | 6.48 (7.58) |
| 27 | | | | | 1360 (1010) | 432 (319) | 14.8 (10.9) | 4.96 (3.66) |
| 28 | | | | | 1830 (2410) | 581 (764) | 19.9 (26.2) | 6.67 (8.77) |
| 29 | | | | | 1570 (982) | 497 (312) | 17.0 (10.7) | 5.71 (3.58) |
| 30 | | | | | 1120 (660) | 355 (209) | 12.2 (7.2) | 4.07 (2.40) |
| Mean | | | | | 1570 | 499 | 17.1 | 5.73 |
| n | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | | | | | 259 | 82 | 2.8 | 0.94 |
| Min | | | | | 1120 | 355 | 12.2 | 4.07 |
| Max | | | | | 1830 | 581 | 19.9 | 6.67 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for October, 2007.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 1170 (1100) | 370 (348) | 12.7 (11.9) | 4.25 (4.00) |
| 2 | | | | | 651 (538) | 207 (171) | 7.1 (5.9) | 2.37 (1.96) |
| 3 | | | | | 1830 (2630) | 582 (835) | 19.9 (28.6) | 6.67 (9.58) |
| 4 | 678 (947) | 215 (301) | 7.1 (9.9) | 2.18 (3.05) | 1490 (1210) | 474 (383) | 16.2 (13.1) | 5.44 (4.40) |
| 5 | 433 (336) | 138 (107) | 4.6 (3.5) | 1.40 (1.08) | 916 (531) | 291 (169) | 10.0 (5.8) | 3.34 (1.93) |
| 6 | 601 (478) | 191 (152) | 6.3 (5.0) | 1.94 (1.54) | 1220 (826) | 389 (262) | 13.3 (9.0) | 4.46 (3.01) |
| 7 | 799 (712) | 254 (226) | 8.4 (7.5) | 2.57 (2.29) | 1320 (1040) | 420 (330) | 14.4 (11.3) | 4.82 (3.78) |
| 8 | 1420 (1200) | 449 (381) | 14.9 (12.6) | 4.56 (3.86) | 2480 (2070) | 787 (658) | 26.9 (22.5) | 9.02 (7.55) |
| 9 | 742 (623) | 236 (198) | 7.8 (6.5) | 2.39 (2.01) | 1520 (1330) | 482 (424) | 16.5 (14.5) | 5.53 (4.86) |
| 10 | 1170 (829) | 372 (263) | 12.3 (8.7) | 3.77 (2.67) | 1800 (1550) | 573 (493) | 19.6 (16.9) | 6.57 (5.66) |
| 11 | 1470 (1310) | 465 (416) | 15.4 (13.8) | 4.72 (4.22) | 1170 (1080) | 370 (344) | 12.7 (11.8) | 4.25 (3.94) |
| 12 | 1340 (1240) | 424 (393) | 14.0 (13.0) | 4.30 (3.99) | 1930 (1990) | 612 (633) | 21.0 (21.7) | 7.02 (7.26) |
| 13 | 976 (865) | 310 (274) | 10.2 (9.1) | 3.14 (2.78) | 1060 (928) | 336 (295) | 11.5 (10.1) | 3.85 (3.38) |
| 14 | 1010 (870) | 319 (276) | 10.6 (9.1) | 3.23 (2.80) | 1150 (1020) | 366 (323) | 12.5 (11.0) | 4.20 (3.70) |
| 15 | 921 (843) | 292 (268) | 9.7 (8.9) | 2.96 (2.71) | 1010 (965) | 321 (306) | 11.0 (10.5) | 3.68 (3.51) |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 703 (1240) | 223 (394) | 7.4 (13.0) | 2.26 (3.99) | 1190 (1260) | 377 (399) | 12.9 (13.7) | 4.33 (4.57) |
| 19 | 264 (635) | 84 (202) | 2.8 (6.7) | 0.85 (2.04) | 466 (908) | 148 (288) | 5.1 (9.9) | 1.70 (3.31) |
| 20 | 1000 (1060) | 319 (335) | 10.5 (11.1) | 3.23 (3.39) | 1150 (1380) | 364 (437) | 12.5 (15.0) | 4.18 (5.01) |
| 21 | 1040 (1180) | 331 (375) | 11.0 (12.4) | 3.35 (3.79) | 1260 (1620) | 400 (516) | 13.7 (17.7) | 4.59 (5.91) |
| 22 | 1130 (1060) | 359 (337) | 11.9 (11.1) | 3.63 (3.40) | 1320 (1210) | 418 (385) | 14.3 (13.2) | 4.79 (4.42) |
| 23 | 871 (1020) | 276 (323) | 9.1 (10.7) | 2.80 (3.26) | 1100 (1040) | 349 (330) | 12.0 (11.3) | 4.00 (3.78) |
| 24 | 496 (743) | 157 (236) | 5.2 (7.8) | 1.59 (2.38) | 982 (1240) | 312 (395) | 10.7 (13.5) | 3.58 (4.53) |
| 25 | 901 (447) | 286 (142) | 9.5 (4.7) | 2.89 (1.43) | 1350 (691) | 430 (219) | 14.7 (7.5) | 4.92 (2.52) |
| 26 | 636 (414) | 202 (131) | 6.7 (4.3) | 2.04 (1.33) | 891 (573) | 283 (182) | 9.7 (6.2) | 3.24 (2.08) |
| 27 | 1000 (675) | 319 (214) | 10.5 (7.1) | 3.22 (2.17) | 1200 (861) | 380 (273) | 13.0 (9.4) | 4.36 (3.13) |
| 28 | 1150 (654) | 365 (208) | 12.1 (6.9) | 3.68 (2.10) | 1340 (896) | 424 (285) | 14.6 (9.8) | 4.87 (3.26) |
| 29 | 1010 (626) | 319 (199) | 10.5 (6.6) | 3.22 (2.01) | 1070 (719) | 340 (228) | 11.7 (7.8) | 3.90 (2.62) |
| 30 | 954 (711) | 303 (226) | 10.0 (7.5) | 3.06 (2.28) | 1040 (791) | 331 (251) | 11.3 (8.6) | 3.79 (2.88) |
| 31 | 1300 (1120) | 412 (356) | 13.6 (11.8) | 4.16 (3.59) | 1910 (1920) | 607 (610) | 20.8 (20.9) | 6.96 (6.99) |
| Mean | 923 | 293 | 9.7 | 2.97 | 1280 | 405 | 13.9 | 4.64 |
| n | 26 | 26 | 26 | 26 | 29 | 29 | 29 | 29 |
| SD | 295 | 94 | 3.1 | 0.95 | 403 | 128 | 4.4 | 1.47 |
| Min | 264 | 84 | 2.8 | 0.85 | 466 | 148 | 5.1 | 1.70 |
| Max | 1470 | 465 | 15.4 | 4.72 | 2480 | 787 | 26.9 | 9.02 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for November, 2007.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | 1040 (955) | 329 (303) | 10.9 (10.0) | 3.32 (3.06) | 1310 (1410) | 416 (447) | 14.3 (15.3) | 4.76 (5.12) |
| 3 | 944 (650) | 300 (206) | 9.9 (6.8) | 3.02 (2.08) | 1180 (862) | 375 (274) | 12.9 (9.4) | 4.30 (3.14) |
| 4 | 789 (648) | 251 (206) | 8.3 (6.8) | 2.53 (2.07) | 986 (783) | 313 (249) | 10.7 (8.5) | 3.59 (2.85) |
| 5 | 774 (644) | 246 (205) | 8.1 (6.8) | 2.48 (2.06) | 975 (751) | 310 (238) | 10.6 (8.2) | 3.55 (2.73) |
| 6 | 939 (878) | 298 (279) | 9.8 (9.2) | 3.00 (2.81) | 1060 (1530) | 336 (486) | 11.5 (16.7) | 3.85 (5.57) |
| 7 | 741 (892) | 235 (283) | 7.8 (9.4) | 2.37 (2.86) | 776 (595) | 246 (189) | 8.5 (6.5) | 2.82 (2.17) |
| 8 | 719 (627) | 228 (199) | 7.5 (6.6) | 2.30 (2.01) | | | | |
| 9 | 981 (1120) | 311 (356) | 10.3 (11.8) | 3.14 (3.59) | | | | |
| 10 | 877 (755) | 279 (240) | 9.2 (7.9) | 2.81 (2.41) | | | | |
| 11 | 859 (1070) | 273 (340) | 9.0 (11.2) | 2.75 (3.43) | | | | |
| 12 | 1090 (1330) | 345 (422) | 11.4 (13.9) | 3.48 (4.25) | | | | |
| 13 | 1320 (1340) | 419 (424) | 13.9 (14.0) | 4.22 (4.27) | | | | |
| 14 | | | | | | | | |
| 15 | 1090 (693) | 347 (220) | 11.5 (7.3) | 3.49 (2.21) | 1600 (1350) | 507 (430) | 17.4 (14.7) | 5.81 (4.92) |
| 16 | 919 (679) | 292 (216) | 9.6 (7.1) | 2.94 (2.17) | 1130 (760) | 360 (241) | 12.4 (8.3) | 4.12 (2.76) |
| 17 | 947 (663) | 301 (211) | 9.9 (7.0) | 3.02 (2.12) | 1330 (1200) | 421 (380) | 14.5 (13.1) | 4.83 (4.36) |
| 18 | 961 (664) | 305 (211) | 10.1 (7.0) | 3.07 (2.12) | 1300 (1050) | 412 (334) | 14.2 (11.5) | 4.72 (3.82) |
| 19 | 935 (615) | 297 (195) | 9.8 (6.5) | 2.98 (1.96) | 1080 (890) | 344 (282) | 11.8 (9.7) | 3.94 (3.24) |
| 20 | 1060 (838) | 336 (266) | 11.1 (8.8) | 3.38 (2.68) | 1390 (1220) | 441 (388) | 15.1 (13.3) | 5.05 (4.44) |
| 21 | 1020 (682) | 324 (216) | 10.7 (7.2) | 3.26 (2.18) | 1370 (885) | 433 (281) | 14.9 (9.6) | 4.97 (3.22) |
| 22 | 733 (692) | 233 (220) | 7.7 (7.3) | 2.34 (2.21) | 1450 (954) | 459 (303) | 15.8 (10.4) | 5.26 (3.47) |
| 23 | 745 (503) | 237 (160) | 7.8 (5.3) | 2.38 (1.61) | 931 (655) | 295 (208) | 10.1 (7.1) | 3.38 (2.38) |
| 24 | 657 (436) | 209 (138) | 6.9 (4.6) | 2.10 (1.39) | 861 (573) | 273 (182) | 9.4 (6.3) | 3.13 (2.08) |
| 25 | 897 (880) | 285 (279) | 9.4 (9.2) | 2.86 (2.81) | 797 (547) | 253 (174) | 8.7 (6.0) | 2.90 (1.99) |
| 26 | 677 (498) | 215 (158) | 7.1 (5.2) | 2.16 (1.59) | 901 (838) | 286 (266) | 9.8 (9.1) | 3.28 (3.05) |
| 27 | 794 (874) | 252 (277) | 8.3 (9.2) | 2.53 (2.79) | 1080 (1160) | 342 (368) | 11.8 (12.6) | 3.92 (4.21) |
| 28 | 1030 (932) | 326 (296) | 10.8 (9.8) | 3.28 (2.97) | 1460 (1700) | 463 (540) | 15.9 (18.5) | 5.30 (6.18) |
| 29 | | | | | | | | |
| 30 | 988 (844) | 314 (268) | 10.4 (8.9) | 3.15 (2.69) | 1450 (1440) | 460 (457) | 15.8 (15.7) | 5.27 (5.23) |
| Mean | 908 | 288 | 9.5 | 2.90 | 1160 | 369 | 12.7 | 4.23 |
| n | 27 | 27 | 27 | 27 | 21 | 21 | 21 | 21 |
| SD | 150 | 48 | 1.6 | 0.48 | 238 | 76 | 2.6 | 0.87 |
| Min | 657 | 209 | 6.9 | 2.10 | 776 | 246 | 8.5 | 2.82 |
| Max | 1320 | 419 | 13.9 | 4.22 | 1600 | 507 | 17.4 | 5.81 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for December, 2007.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 924 (879) | 293 (279) | 9.7 (9.2) | 2.94 (2.80) | 1180 (1180) | 376 (375) | 12.9 (12.9) | 4.31 (4.29) |
| 2 | 1030 (870) | 328 (276) | 10.8 (9.1) | 3.29 (2.77) | 1270 (975) | 404 (309) | 13.9 (10.6) | 4.62 (3.54) |
| 3 | 969 (1120) | 308 (355) | 10.2 (11.7) | 3.09 (3.56) | 1240 (1360) | 392 (431) | 13.5 (14.8) | 4.49 (4.94) |
| 4 | 953 (1300) | 302 (412) | 10.0 (13.6) | 3.03 (4.14) | 996 (1020) | 316 (324) | 10.9 (11.1) | 3.62 (3.71) |
| 5 | 892 (876) | 283 (278) | 9.4 (9.2) | 2.84 (2.79) | 1130 (1090) | 357 (346) | 12.3 (11.9) | 4.09 (3.96) |
| 6 | 677 (583) | 215 (185) | 7.1 (6.1) | 2.16 (1.86) | 1060 (903) | 337 (287) | 11.6 (9.9) | 3.85 (3.28) |
| 7 | 798 (842) | 253 (267) | 8.4 (8.8) | 2.54 (2.68) | 1070 (914) | 339 (290) | 11.6 (10.0) | 3.88 (3.32) |
| 8 | 1150 (1210) | 364 (385) | 12.0 (12.7) | 3.65 (3.86) | 1330 (1540) | 423 (488) | 14.5 (16.8) | 4.84 (5.58) |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 1200 (673) | 383 (214) | 12.6 (7.1) | 3.83 (2.14) | 1590 (1100) | 505 (349) | 17.4 (12.0) | 5.79 (4.00) |
| 12 | 1090 (624) | 346 (198) | 11.4 (6.5) | 3.46 (1.99) | 1410 (772) | 447 (245) | 15.4 (8.4) | 5.12 (2.81) |
| 13 | 1160 (790) | 368 (251) | 12.1 (8.3) | 3.68 (2.51) | 1400 (1060) | 444 (336) | 15.3 (11.5) | 5.08 (3.84) |
| 14 | 1010 (661) | 321 (210) | 10.6 (6.9) | 3.21 (2.10) | 1200 (765) | 382 (243) | 13.1 (8.3) | 4.38 (2.78) |
| 15 | 859 (537) | 273 (171) | 9.0 (5.6) | 2.73 (1.71) | 942 (618) | 299 (196) | 10.3 (6.7) | 3.42 (2.25) |
| 16 | 950 (714) | 301 (227) | 10.0 (7.5) | 3.02 (2.27) | 981 (1080) | 311 (344) | 10.7 (11.8) | 3.56 (3.94) |
| 17 | 795 (595) | 252 (189) | 8.3 (6.2) | 2.53 (1.89) | 760 (468) | 241 (148) | 8.3 (5.1) | 2.76 (1.70) |
| 18 | 999 (995) | 317 (316) | 10.5 (10.4) | 3.17 (3.16) | 1080 (982) | 344 (312) | 11.8 (10.7) | 3.93 (3.57) |
| 19 | 1310 (912) | 415 (289) | 13.7 (9.6) | 4.15 (2.90) | 1320 (900) | 419 (286) | 14.4 (9.8) | 4.80 (3.27) |
| 20 | 1520 (2260) | 481 (718) | 15.9 (23.7) | 4.82 (7.18) | 1490 (1270) | 474 (402) | 16.3 (13.8) | 5.43 (4.61) |
| 21 | 1210 (1130) | 384 (359) | 12.7 (11.8) | 3.84 (3.59) | 1110 (1100) | 353 (350) | 12.1 (12.0) | 4.04 (4.01) |
| 22 | 1440 (1650) | 456 (522) | 15.0 (17.2) | 4.56 (5.22) | 1430 (1990) | 454 (631) | 15.6 (21.7) | 5.20 (7.22) |
| 23 | 1110 (949) | 352 (301) | 11.6 (10.0) | 3.52 (3.01) | 1290 (1370) | 410 (435) | 14.1 (14.9) | 4.69 (4.98) |
| 24 | 1070 (1220) | 341 (387) | 11.2 (12.8) | 3.41 (3.86) | 1190 (1240) | 377 (395) | 13.0 (13.6) | 4.32 (4.52) |
| 25 | 1020 (895) | 325 (284) | 10.7 (9.4) | 3.25 (2.84) | 1130 (1040) | 358 (330) | 12.3 (11.3) | 4.10 (3.78) |
| 26 | 1020 (792) | 323 (251) | 10.7 (8.3) | 3.23 (2.51) | 1130 (999) | 360 (317) | 12.4 (10.9) | 4.12 (3.63) |
| 27 | 1120 (935) | 357 (297) | 11.8 (9.8) | 3.57 (2.97) | 1330 (1190) | 422 (379) | 14.5 (13.0) | 4.83 (4.34) |
| 28 | 1210 (773) | 383 (245) | 12.6 (8.1) | 3.82 (2.45) | 1520 (846) | 482 (269) | 16.6 (9.2) | 5.51 (3.07) |
| 29 | 745 (602) | 236 (191) | 7.8 (6.3) | 2.36 (1.91) | 1410 (925) | 449 (294) | 15.4 (10.1) | 5.13 (3.36) |
| 30 | 1010 (709) | 319 (225) | 10.5 (7.4) | 3.19 (2.25) | 1390 (947) | 442 (301) | 15.2 (10.3) | 5.05 (3.44) |
| 31 | | | | | | | | |
| Mean | 1040 | 331 | 10.9 | 3.32 | 1230 | 390 | 13.4 | 4.46 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 190 | 60 | 2.0 | 0.60 | 191 | 61 | 2.1 | 0.70 |
| Min | 677 | 215 | 7.1 | 2.16 | 760 | 241 | 8.3 | 2.76 |
| Max | 1520 | 481 | 15.9 | 4.82 | 1590 | 505 | 17.4 | 5.79 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for January, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | 1300 (1110) | 413 (352) | 13.6 (11.6) | 4.13 (3.51) | 1150 (843) | 365 (268) | 12.6 (9.2) | 4.18 (3.06) |
| 5 | 1290 (1010) | 409 (322) | 13.5 (10.6) | 4.08 (3.21) | 1040 (964) | 330 (306) | 11.4 (10.5) | 3.78 (3.50) |
| 6 | 1920 (1510) | 610 (480) | 20.1 (15.9) | 6.08 (4.79) | 1660 (1730) | 526 (550) | 18.1 (18.9) | 6.02 (6.29) |
| 7 | 1550 (1470) | 493 (468) | 16.3 (15.4) | 4.91 (4.66) | 1690 (1390) | 536 (441) | 18.5 (15.2) | 6.14 (5.05) |
| 8 | 1570 (1480) | 500 (469) | 16.5 (15.5) | 4.98 (4.67) | 1410 (1640) | 447 (520) | 15.4 (17.9) | 5.11 (5.95) |
| 9 | 1850 (1570) | 586 (499) | 19.3 (16.5) | 5.84 (4.97) | 1430 (2060) | 454 (654) | 15.6 (22.5) | 5.20 (7.48) |
| 10 | 1720 (1750) | 544 (554) | 18.0 (18.3) | 5.43 (5.53) | 1690 (1630) | 535 (518) | 18.4 (17.8) | 6.12 (5.93) |
| 11 | 1370 (944) | 436 (300) | 14.4 (9.9) | 4.34 (2.99) | 1770 (1480) | 563 (471) | 19.4 (16.2) | 6.44 (5.39) |
| 12 | 1350 (1380) | 430 (437) | 14.2 (14.4) | 4.28 (4.35) | 1450 (1600) | 461 (509) | 15.9 (17.5) | 5.27 (5.82) |
| 13 | 1310 (1200) | 416 (380) | 13.7 (12.5) | 4.14 (3.78) | 1150 (1110) | 365 (351) | 12.6 (12.1) | 4.17 (4.01) |
| 14 | 1210 (1070) | 385 (339) | 12.7 (11.2) | 3.83 (3.38) | 1090 (966) | 345 (307) | 11.9 (10.6) | 3.95 (3.51) |
| 15 | 1040 (934) | 331 (297) | 10.9 (9.8) | 3.29 (2.95) | 857 (999) | 272 (317) | 9.4 (10.9) | 3.11 (3.63) |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 1460 | 463 | 15.3 | 4.61 | 1360 | 433 | 14.9 | 4.96 |
| n | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| SD | 255 | 81 | 2.7 | 0.81 | 290 | 92 | 3.2 | 1.05 |
| Min | 1040 | 331 | 10.9 | 3.29 | 857 | 272 | 9.4 | 3.11 |
| Max | 1920 | 610 | 20.1 | 6.08 | 1770 | 563 | 19.4 | 6.44 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for February, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | 1960 (1230) | 623 (390) | 20.5 (12.9) | 6.18 (3.87) | 1630 (1390) | 519 (441) | 17.9 (15.2) | 5.93 (5.04) |
| 6 | 1970 (1560) | 626 (495) | 20.6 (16.3) | 6.20 (4.91) | 2460 (1740) | 782 (553) | 27.0 (19.1) | 8.94 (6.32) |
| 7 | 1690 (1260) | 537 (400) | 17.7 (13.2) | 5.33 (3.97) | 2240 (1730) | 710 (550) | 24.5 (18.9) | 8.11 (6.28) |
| 8 | 1520 (1300) | 483 (412) | 15.9 (13.6) | 4.79 (4.08) | 1790 (1310) | 569 (417) | 19.6 (14.4) | 6.50 (4.77) |
| 9 | 1370 (1250) | 436 (397) | 14.4 (13.1) | 4.32 (3.94) | 1560 (1280) | 495 (406) | 17.1 (14.0) | 5.66 (4.64) |
| 10 | 1510 (1270) | 479 (404) | 15.8 (13.3) | 4.75 (4.01) | 1720 (1510) | 547 (479) | 18.9 (16.5) | 6.25 (5.47) |
| 11 | 1320 (1030) | 420 (328) | 13.9 (10.8) | 4.16 (3.25) | 1430 (1090) | 454 (347) | 15.7 (12.0) | 5.19 (3.97) |
| 12 | 1300 (1100) | 411 (350) | 13.6 (11.5) | 4.07 (3.47) | 1290 (1590) | 409 (504) | 14.1 (17.4) | 4.67 (5.76) |
| 13 | 1780 (1610) | 567 (513) | 18.7 (16.9) | 5.61 (5.08) | 1930 (1950) | 614 (620) | 21.2 (21.4) | 7.02 (7.09) |
| 14 | 1500 (1060) | 477 (336) | 15.7 (11.1) | 4.72 (3.33) | 1610 (1140) | 511 (361) | 17.6 (12.4) | 5.84 (4.12) |
| 15 | 1710 (1310) | 541 (417) | 17.9 (13.7) | 5.36 (4.12) | 1680 (1350) | 534 (430) | 18.4 (14.8) | 6.11 (4.91) |
| 16 | 2100 (1590) | 667 (506) | 22.0 (16.7) | 6.60 (5.01) | 2010 (1490) | 637 (474) | 22.0 (16.4) | 7.27 (5.42) |
| 17 | | | | | | | | |
| 18 | 869 (1040) | 276 (329) | 9.1 (10.8) | 2.73 (3.25) | 1280 (1120) | 408 (356) | 14.1 (12.3) | 4.66 (4.07) |
| 19 | 1500 (1380) | 478 (439) | 15.8 (14.5) | 4.73 (4.35) | 1220 (880) | 389 (279) | 13.4 (9.6) | 4.44 (3.19) |
| 20 | 2310 (2110) | 735 (671) | 24.2 (22.1) | 7.27 (6.64) | 2100 (2020) | 666 (640) | 23.0 (22.1) | 7.61 (7.31) |
| 21 | 1580 (1340) | 502 (427) | 16.6 (14.1) | 4.96 (4.22) | 1690 (1130) | 537 (358) | 18.5 (12.3) | 6.14 (4.09) |
| 22 | 1210 (1140) | 383 (362) | 12.6 (11.9) | 3.79 (3.58) | 1340 (875) | 424 (278) | 14.6 (9.6) | 4.85 (3.17) |
| 23 | 1480 (1550) | 468 (492) | 15.5 (16.2) | 4.63 (4.86) | 1450 (1200) | 459 (380) | 15.8 (13.1) | 5.24 (4.34) |
| 24 | 1160 (1230) | 370 (389) | 12.2 (12.8) | 3.66 (3.85) | 1290 (1020) | 409 (325) | 14.1 (11.2) | 4.67 (3.71) |
| 25 | 1530 (2010) | 485 (638) | 16.0 (21.1) | 4.79 (6.31) | 1440 (1490) | 456 (475) | 15.7 (16.4) | 5.21 (5.42) |
| 26 | 1540 (1400) | 490 (443) | 16.1 (14.6) | 4.84 (4.38) | 1250 (2080) | 396 (659) | 13.7 (22.7) | 4.53 (7.53) |
| 27 | 1760 (1600) | 560 (508) | 18.5 (16.7) | 5.54 (5.01) | 1610 (1460) | 511 (462) | 17.6 (15.9) | 5.84 (5.28) |
| 28 | 1700 (1200) | 540 (381) | 17.8 (12.6) | 5.33 (3.76) | 1700 (1150) | 540 (365) | 18.6 (12.6) | 6.17 (4.17) |
| 29 | 1590 (1250) | 506 (398) | 16.7 (13.1) | 4.99 (3.93) | 1780 (1310) | 566 (415) | 19.5 (14.3) | 6.46 (4.74) |
| Mean | 1580 | 502 | 16.6 | 4.97 | 1650 | 523 | 18.0 | 5.97 |
| n | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| SD | 308 | 98 | 3.2 | 0.97 | 319 | 101 | 3.5 | 1.16 |
| Min | 869 | 276 | 9.1 | 2.73 | 1220 | 389 | 13.4 | 4.44 |
| Max | 2310 | 735 | 24.2 | 7.27 | 2460 | 782 | 27.0 | 8.94 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for March, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1740 (1240) | 553 (395) | 18.2 (13.0) | 5.46 (3.90) | 2060 (1840) | 655 (584) | 22.6 (20.2) | 7.48 (6.67) |
| 2 | 1580 (1100) | 501 (349) | 16.5 (11.5) | 4.94 (3.45) | 1770 (1240) | 560 (394) | 19.3 (13.6) | 6.40 (4.50) |
| 3 | 1730 (1150) | 550 (366) | 18.1 (12.1) | 5.43 (3.61) | 1460 (1330) | 464 (423) | 16.0 (14.6) | 5.30 (4.83) |
| 4 | | | | | | | | |
| 5 | 1810 (1440) | 574 (458) | 18.9 (15.1) | 5.67 (4.52) | 1450 (1100) | 460 (348) | 15.9 (12.0) | 5.26 (3.97) |
| 6 | 1730 (1190) | 549 (379) | 18.1 (12.5) | 5.42 (3.73) | 1360 (1120) | 432 (355) | 14.9 (12.3) | 4.94 (4.06) |
| 7 | 1500 (1540) | 475 (489) | 15.7 (16.1) | 4.69 (4.83) | 1620 (1760) | 514 (557) | 17.8 (19.2) | 5.87 (6.36) |
| 8 | 1270 (2040) | 404 (648) | 13.3 (21.4) | 3.98 (6.39) | 1610 (2010) | 510 (638) | 17.6 (22.0) | 5.83 (7.29) |
| 9 | 1720 (1600) | 547 (507) | 18.1 (16.7) | 5.40 (5.00) | 1830 (1520) | 580 (484) | 20.0 (16.7) | 6.63 (5.53) |
| 10 | 1290 (2160) | 410 (685) | 13.5 (22.6) | 4.04 (6.75) | 4050 (5210) | 1290 (1650) | 44.4 (57.1) | 14.70 (18.90) |
| 11 | 1410 (2840) | 446 (903) | 14.7 (29.8) | 4.40 (8.90) | 3110 (5060) | 989 (1610) | 34.1 (55.5) | 11.30 (18.30) |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | 3010 (2230) | 957 (706) | 31.6 (23.3) | 9.42 (6.95) | 2860 (1700) | 906 (541) | 31.3 (18.7) | 10.30 (6.18) |
| 21 | 2350 (1530) | 747 (486) | 24.6 (16.0) | 7.35 (4.78) | 2260 (1490) | 716 (472) | 24.7 (16.3) | 8.17 (5.39) |
| 22 | 2220 (2010) | 704 (638) | 23.2 (21.0) | 6.93 (6.27) | 2020 (1840) | 640 (584) | 22.1 (20.2) | 7.31 (6.67) |
| 23 | 2150 (1560) | 682 (495) | 22.5 (16.3) | 6.71 (4.87) | 2290 (1630) | 726 (516) | 25.1 (17.8) | 8.28 (5.89) |
| 24 | 1940 (1520) | 615 (481) | 20.3 (15.9) | 6.05 (4.73) | 1770 (1510) | 561 (479) | 19.4 (16.5) | 6.40 (5.46) |
| 25 | 1710 (1680) | 541 (535) | 17.8 (17.6) | 5.32 (5.26) | 1500 (1300) | 478 (412) | 16.5 (14.3) | 5.45 (4.71) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 1820 | 579 | 19.1 | 5.70 | 2060 | 655 | 22.6 | 7.48 |
| n | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| SD | 430 | 136 | 4.5 | 1.34 | 705 | 224 | 7.7 | 2.56 |
| Min | 1270 | 404 | 13.3 | 3.98 | 1360 | 432 | 14.9 | 4.94 |
| Max | 3010 | 957 | 31.6 | 9.42 | 4050 | 1290 | 44.4 | 14.70 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for April, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | 1630 (908) | 516 (288) | 17.0 (9.5) | 5.09 (2.84) | 2410 (1260) | 766 (399) | 26.5 (13.8) | 8.75 (4.56) |
| 6 | 1930 (1460) | 613 (464) | | | 1670 (791) | 530 (251) | 18.4 (8.7) | 6.06 (2.87) |
| 7 | 913 (597) | 290 (189) | | | 1770 (5460) | 563 (1730) | 19.5 (60.0) | 6.43 (19.80) |
| 8 | 856 (639) | 272 (203) | | | 1960 (1660) | 621 (527) | 21.5 (18.3) | 7.10 (6.03) |
| 9 | 465 (631) | 148 (200) | | | 2470 (1960) | 785 (622) | 27.2 (21.5) | 8.97 (7.11) |
| 10 | -284 (557) | -90 (177) | | | 1390 (1310) | 442 (416) | 15.3 (14.4) | 5.06 (4.76) |
| 11 | -1440 (1980) | -456 (628) | | | | | | |
| 12 | -1940 (3120) | -617 (991) | | | 1650 (3030) | 524 (962) | 18.2 (33.3) | 6.00 (11.00) |
| 13 | -661 (1300) | -210 (413) | | | 1870 (1700) | 595 (540) | 20.6 (18.7) | 6.81 (6.18) |
| 14 | 69 (168) | 22 (53) | | | 1510 (1060) | 481 (337) | 16.7 (11.7) | 5.51 (3.86) |
| 15 | 15 (72) | 5 (23) | | | 1340 (1370) | 424 (434) | 14.7 (15.1) | 4.85 (4.97) |
| 16 | -70 (747) | -22 (237) | | | 1880 (2000) | 598 (634) | 20.8 (22.0) | 6.85 (7.26) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 318 (1260) | 101 (399) | | | | | | |
| 20 | -124 (1040) | -39 (332) | | | 2180 (2420) | 691 (767) | 24.0 (26.7) | 7.93 (8.80) |
| 21 | 12 (571) | 4 (181) | | | 2010 (2050) | 637 (652) | 22.1 (22.7) | 7.30 (7.48) |
| 22 | | | | | | | | |
| 23 | 35 (210) | 11 (67) | | | 2620 (2800) | 832 (889) | 28.9 (30.9) | 9.54 (10.20) |
| 24 | 351 (1450) | 111 (461) | | | | | | |
| 25 | -41 (329) | -13 (105) | | | | | | |
| 26 | 2 (222) | 1 (71) | | | | | | |
| 27 | -197 (475) | -62 (151) | | | 2280 (1440) | 723 (457) | 25.2 (15.9) | 8.31 (5.25) |
| 28 | 213 (412) | 68 (131) | 2.2 (4.2) | 0.82 (1.59) | 1740 (1100) | 551 (350) | 19.2 (12.2) | 6.33 (4.02) |
| 29 | 1230 (1040) | 389 (330) | 12.5 (10.6) | 4.74 (4.02) | 1750 (996) | 556 (316) | 19.4 (11.0) | 6.39 (3.64) |
| 30 | 1760 (1370) | 559 (435) | 18.0 (14.0) | 6.81 (5.30) | 2830 (2470) | 898 (783) | 31.3 (27.3) | 10.30 (9.00) |
| Mean | 219 | 70 | 12.4 | 4.36 | 1960 | 623 | 21.6 | 7.14 |
| n | 23 | 23 | 4 | 4 | 18 | 18 | 18 | 18 |
| SD | 893 | 284 | 6.3 | 2.19 | 411 | 130 | 4.6 | 1.50 |
| Min | -1940 | -617 | 2.2 | 0.82 | 1340 | 424 | 14.7 | 4.85 |
| Max | 1930 | 613 | 18.0 | 6.81 | 2830 | 898 | 31.3 | 10.30 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for May, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 2660 (1780) | 845 (565) | 27.2 (18.2) | 10.30 (6.88) | 2640 (1660) | 839 (526) | 29.3 (18.3) | 9.66 (6.06) |
| 2 | 3990 (6510) | 1270 (2070) | 40.7 (66.4) | 15.40 (25.20) | | | | |
| 3 | 2320 (1260) | 737 (401) | 23.7 (12.9) | 8.98 (4.89) | | | | |
| 4 | 2550 (1400) | 808 (443) | 26.0 (14.3) | 9.84 (5.40) | | | | |
| 5 | 3990 (2600) | 1270 (824) | 40.7 (26.5) | 15.40 (10.00) | 3270 (2720) | 1040 (862) | 36.3 (30.1) | 12.00 (9.93) |
| 6 | 2690 (2400) | 855 (761) | 27.5 (24.5) | 10.40 (9.27) | 1890 (1870) | 599 (595) | 20.9 (20.8) | 6.90 (6.85) |
| 7 | 2050 (1580) | 651 (502) | 21.0 (16.1) | 7.94 (6.12) | | | | |
| 8 | 2900 (1780) | 920 (565) | 29.6 (18.2) | 11.20 (6.89) | 2140 (1460) | 678 (465) | 23.7 (16.2) | 7.81 (5.36) |
| 9 | 2280 (2270) | 722 (721) | 23.3 (23.2) | 8.81 (8.79) | | | | |
| 10 | 2490 (2490) | 790 (790) | 25.4 (25.4) | 9.62 (9.63) | 1960 (1900) | 622 (604) | 21.7 (21.1) | 7.18 (6.96) |
| 11 | 3650 (2520) | 1160 (799) | 37.2 (25.7) | 14.10 (9.74) | 1950 (1420) | 619 (450) | 21.6 (15.7) | 7.14 (5.19) |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | 2620 (1810) | 833 (575) | 26.9 (18.5) | 9.52 (6.57) | 3250 (2070) | 1030 (656) | 36.3 (23.1) | 11.40 (7.26) |
| 30 | 2650 (1600) | 840 (508) | 27.1 (16.4) | 9.48 (5.72) | | | | |
| 31 | 2240 (1480) | 713 (471) | 23.0 (15.2) | 7.94 (5.25) | | | | |
| Mean | 2790 | 886 | 28.5 | 10.60 | 2440 | 775 | 27.1 | 8.87 |
| n | 14 | 14 | 14 | 14 | 7 | 7 | 7 | 7 |
| SD | 607 | 193 | 6.2 | 2.44 | 568 | 180 | 6.3 | 1.99 |
| Min | 2050 | 651 | 21.0 | 7.94 | 1890 | 599 | 20.9 | 6.90 |
| Max | 3990 | 1270 | 40.7 | 15.40 | 3270 | 1040 | 36.3 | 12.00 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for June, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1640 (2670) | 522 (849) | 16.8 (27.4) | 5.81 (9.46) | 2560 (2520) | 812 (800) | 28.6 (28.1) | 9.00 (8.86) |
| 2 | 2940 (2680) | 932 (852) | 30.1 (27.5) | 10.40 (9.50) | 5020 (4100) | 1590 (1300) | 55.9 (45.7) | 17.70 (14.50) |
| 3 | 2920 (1610) | 928 (510) | 30.0 (16.5) | 10.30 (5.69) | 2210 (1860) | 701 (590) | | |
| 4 | 2110 (1030) | 670 (326) | 21.6 (10.5) | 7.52 (3.66) | 591 (1030) | 188 (327) | | |
| 5 | 1790 (1490) | 569 (474) | 18.3 (15.3) | 6.42 (5.36) | -77 (1720) | -25 (545) | | |
| 6 | 1550 (2060) | 493 (655) | 15.9 (21.1) | 5.57 (7.39) | -109 (2070) | -35 (658) | | |
| 7 | 1790 (1850) | 569 (586) | 18.4 (18.9) | 6.43 (6.61) | 193 (1950) | 61 (619) | | |
| 8 | 1990 (1810) | 632 (574) | 20.4 (18.5) | 7.14 (6.48) | 360 (1880) | 114 (598) | | |
| 9 | 2730 (3140) | 866 (996) | 27.9 (32.2) | 9.78 (11.30) | 472 (3140) | 150 (996) | | |
| 10 | 5240 (8700) | 1660 (2760) | 53.7 (89.1) | 18.80 (31.20) | 496 (1470) | 157 (466) | | |
| 11 | 1960 (1470) | 623 (465) | 20.1 (15.0) | 7.15 (5.36) | 842 (1500) | 267 (475) | | |
| 12 | 1450 (1650) | 461 (523) | 14.9 (16.9) | 5.40 (6.12) | 622 (1830) | 197 (581) | | |
| 13 | 1490 (2230) | 474 (707) | 15.3 (22.8) | 5.55 (8.28) | 743 (2280) | 236 (725) | | |
| 14 | 1460 (1830) | 463 (583) | 14.9 (18.8) | 5.42 (6.82) | 1290 (3820) | 411 (1210) | | |
| 15 | 1200 (1620) | 381 (514) | 12.3 (16.6) | 4.46 (6.02) | 30 (1500) | 9 (477) | | |
| 16 | 1340 (2350) | 424 (745) | 13.7 (24.1) | 4.96 (8.73) | -22 (2090) | -7 (665) | | |
| 17 | 787 (1750) | 250 (555) | 8.1 (17.9) | 2.93 (6.49) | -296 (1710) | -94 (541) | | |
| 18 | | | | | 1930 (2400) | 613 (761) | | |
| 19 | | | | | 2670 (2510) | 848 (796) | | |
| 20 | 1270 (1980) | 402 (629) | 13.0 (20.3) | 4.55 (7.10) | 2700 (2510) | 857 (798) | | |
| 21 | 1240 (1740) | 394 (552) | 12.7 (17.8) | 4.46 (6.24) | 3030 (2680) | 963 (849) | | |
| 22 | 1050 (1250) | 334 (397) | 10.8 (12.8) | 3.77 (4.49) | 2680 (1900) | 851 (604) | | |
| 23 | 906 (1680) | 287 (534) | 9.3 (17.2) | 3.23 (6.00) | 2440 (2170) | 774 (690) | 25.1 (22.4) | 10.30 (9.19) |
| 24 | | | | | | | | |
| 25 | 2000 (1250) | 635 (397) | 20.5 (12.8) | 7.11 (4.45) | 3470 (1880) | 1100 (597) | 35.6 (19.3) | 14.70 (7.98) |
| 26 | 1130 (631) | 360 (200) | 11.6 (6.5) | 4.03 (2.24) | 2340 (1130) | 744 (358) | 24.1 (11.6) | 9.94 (4.78) |
| 27 | 1480 (919) | 469 (292) | 15.1 (9.4) | 5.25 (3.27) | 2950 (1460) | 935 (462) | 30.3 (15.0) | 12.50 (6.18) |
| 28 | 1430 (816) | 455 (259) | 14.7 (8.4) | 5.09 (2.90) | 2620 (1590) | 832 (504) | 26.9 (16.3) | 11.10 (6.73) |
| 29 | 1670 (932) | 529 (296) | 17.1 (9.6) | 5.93 (3.31) | 3220 (1660) | 1020 (528) | 33.0 (17.1) | 13.60 (7.06) |
| 30 | 1450 (1160) | 460 (369) | 14.9 (11.9) | 5.17 (4.15) | 2920 (1820) | 925 (578) | 30.0 (18.7) | 12.00 (7.50) |
| Mean | 1780 | 565 | 18.2 | 6.39 | 1650 | 524 | 32.2 | 12.30 |
| n | 27 | 27 | 27 | 27 | 29 | 29 | 9 | 9 |
| SD | 866 | 275 | 8.9 | 3.08 | 1370 | 435 | 9.1 | 2.56 |
| Min | 787 | 250 | 8.1 | 2.93 | -296 | -94 | 24.1 | 9.00 |
| Max | 5240 | 1660 | 53.7 | 18.80 | 5020 | 1590 | 55.9 | 17.70 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for July, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1800 (1120) | 572 (355) | 18.5 (11.5) | 6.45 (4.01) | 2940 (1780) | 933 (566) | 30.2 (18.4) | 11.70 (7.12) |
| 2 | 1590 (1320) | 505 (419) | 16.3 (13.5) | 5.69 (4.72) | 2860 (1850) | 906 (589) | 29.4 (19.1) | 11.40 (7.42) |
| 3 | 1550 (900) | 491 (286) | 15.9 (9.2) | 5.53 (3.22) | 2930 (1610) | 931 (510) | 30.2 (16.5) | 11.70 (6.42) |
| 4 | 1450 (958) | 461 (304) | 14.9 (9.8) | 5.20 (3.43) | 3310 (2380) | 1050 (755) | 34.1 (24.5) | 13.20 (9.51) |
| 5 | 1360 (1160) | 432 (368) | 13.9 (11.9) | 4.87 (4.14) | 3220 (2300) | 1020 (729) | 33.1 (23.7) | 12.90 (9.19) |
| 6 | 1170 (947) | 372 (301) | 12.0 (9.7) | 4.15 (3.35) | 2470 (1860) | 784 (589) | 25.4 (19.1) | 9.67 (7.24) |
| 7 | 1310 (989) | 414 (314) | 13.4 (10.1) | 4.58 (3.47) | 2420 (1730) | 767 (549) | 24.9 (17.8) | 9.24 (6.62) |
| 8 | 1150 (1240) | 365 (392) | 11.8 (12.7) | 4.04 (4.34) | 2350 (2630) | 747 (836) | 24.2 (27.1) | 9.00 (10.10) |
| 9 | 1910 (1600) | 606 (508) | 19.6 (16.4) | 6.70 (5.62) | 3340 (3350) | 1060 (1060) | 34.4 (34.6) | 12.80 (12.80) |
| 10 | 1840 (1440) | 584 (457) | 18.9 (14.8) | 6.46 (5.05) | 3650 (2630) | 1160 (834) | 37.6 (27.1) | 14.00 (10.00) |
| 11 | 1250 (1080) | 398 (343) | 12.9 (11.1) | 4.41 (3.80) | 3140 (2120) | 998 (674) | 32.4 (21.9) | 12.00 (8.12) |
| 12 | 1650 (1570) | 524 (497) | 16.9 (16.1) | 5.80 (5.50) | 3180 (2540) | 1010 (805) | 32.7 (26.1) | 12.10 (9.70) |
| 13 | 1640 (1320) | 521 (419) | 16.9 (13.6) | 5.77 (4.64) | 3540 (2570) | 1120 (815) | 36.5 (26.5) | 13.50 (9.82) |
| 14 | 1590 (1180) | 506 (375) | 16.4 (12.1) | 5.60 (4.15) | 3790 (3170) | 1200 (1010) | 39.1 (32.6) | 14.50 (12.10) |
| 15 | 1570 (1450) | 498 (459) | 16.1 (14.8) | 5.52 (5.08) | 2660 (2120) | 843 (673) | 27.4 (21.9) | 10.20 (8.11) |
| 16 | 2190 (2380) | 695 (757) | 22.5 (24.5) | 7.69 (8.37) | 2400 (2080) | 762 (660) | 24.8 (21.4) | 9.19 (7.95) |
| 17 | 1810 (1620) | 576 (513) | 18.6 (16.6) | 6.37 (5.68) | 2810 (2420) | 892 (770) | 29.0 (25.0) | 10.80 (9.28) |
| 18 | 3070 (2840) | 974 (902) | 31.5 (29.2) | 10.80 (9.99) | 5070 (7190) | 1610 (2280) | 52.3 (74.1) | 19.40 (27.50) |
| 19 | 1710 (1140) | 544 (363) | 17.6 (11.7) | 6.02 (4.02) | 3110 (2160) | 987 (685) | 32.0 (22.2) | 11.70 (8.14) |
| 20 | 1440 (1030) | 458 (327) | 14.8 (10.6) | 5.07 (3.61) | 2400 (1620) | 763 (513) | 24.8 (16.7) | 8.95 (6.02) |
| 21 | 1740 (1110) | 553 (352) | 17.9 (11.4) | 6.12 (3.90) | 2500 (1610) | 793 (512) | 25.8 (16.6) | 9.31 (6.01) |
| 22 | 1800 (1220) | 571 (387) | 18.5 (12.5) | 6.33 (4.29) | 2670 (1770) | 849 (563) | 27.6 (18.3) | 9.96 (6.61) |
| 23 | 1580 (1140) | 501 (361) | 16.2 (11.7) | 5.55 (4.00) | 2660 (1970) | 843 (626) | 27.4 (20.3) | 9.90 (7.35) |
| 24 | 1670 (1290) | 529 (410) | 17.1 (13.3) | 5.86 (4.54) | 2420 (1840) | 768 (583) | 25.0 (18.9) | 9.02 (6.85) |
| 25 | 2070 (1760) | 658 (557) | 21.3 (18.0) | 7.29 (6.17) | 2940 (2600) | 934 (826) | 30.3 (26.8) | 11.00 (9.70) |
| 26 | 1000 (1190) | 317 (378) | 10.3 (12.2) | 3.51 (4.18) | 2130 (1630) | 675 (517) | 21.9 (16.8) | 7.92 (6.07) |
| 27 | 1230 (1020) | 389 (322) | 12.6 (10.4) | 4.31 (3.57) | 2050 (1620) | 652 (514) | 21.2 (16.7) | 7.66 (6.04) |
| 28 | 1520 (1280) | 484 (407) | 15.6 (13.2) | 5.36 (4.50) | 2300 (1670) | 731 (531) | 23.8 (17.3) | 8.51 (6.16) |
| 29 | 1660 (1140) | 527 (362) | 17.0 (11.7) | 5.83 (4.01) | 2250 (1520) | 714 (483) | 23.2 (15.7) | 8.23 (5.57) |
| 30 | 2230 (2160) | 707 (684) | 22.9 (22.1) | 7.83 (7.58) | 2670 (2820) | 847 (894) | 27.5 (29.1) | 9.75 (10.30) |
| 31 | 1810 (1300) | 574 (414) | 18.6 (13.4) | 6.36 (4.58) | 2180 (1600) | 694 (508) | 22.5 (16.5) | 7.99 (5.85) |
| Mean | 1660 | 526 | 17.0 | 5.84 | 2850 | 905 | 29.4 | 10.90 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 385 | 122 | 4.0 | 1.35 | 609 | 193 | 6.3 | 2.44 |
| Min | 1000 | 317 | 10.3 | 3.51 | 2050 | 652 | 21.2 | 7.66 |
| Max | 3070 | 974 | 31.5 | 10.80 | 5070 | 1610 | 52.3 | 19.40 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for August, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1460 (1430) | 463 (453) | 15.0 (14.6) | 5.13 (5.01) | 1620 (1700) | 514 (539) | 16.7 (17.5) | 5.93 (6.21) |
| 2 | 1630 (1840) | 518 (585) | 16.7 (18.9) | 5.69 (6.41) | 1790 (2440) | 568 (776) | 18.4 (25.2) | 6.54 (8.94) |
| 3 | 2000 (1590) | 634 (505) | 20.5 (16.3) | 6.91 (5.51) | 2260 (1830) | 717 (580) | 23.3 (18.8) | 8.26 (6.68) |
| 4 | 1780 (1630) | 566 (518) | 18.3 (16.8) | 6.19 (5.67) | 2200 (2030) | 700 (645) | 22.7 (21.0) | 8.06 (7.43) |
| 5 | 2640 (2810) | 838 (893) | 27.1 (28.9) | 9.19 (9.80) | 3130 (3360) | 995 (1070) | 32.4 (34.7) | 11.60 (12.40) |
| 6 | 2070 (1700) | 657 (541) | 21.3 (17.5) | 7.21 (5.94) | 2600 (2200) | 825 (699) | 26.8 (22.7) | 9.67 (8.19) |
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| 31 | | | | | | | | |
| Mean | 1930 | 613 | 19.8 | 6.72 | 2270 | 720 | 23.4 | 8.34 |
| n | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| SD | 379 | 120 | 3.9 | 1.31 | 502 | 159 | 5.2 | 1.89 |
| Min | 1460 | 463 | 15.0 | 5.13 | 1620 | 514 | 16.7 | 5.93 |
| Max | 2640 | 838 | 27.1 | 9.19 | 3130 | 995 | 32.4 | 11.60 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for September, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 2410 (2190) | 766 (694) | 24.8 (22.5) | 8.33 (7.55) | 2450 (1820) | 777 (577) | 25.3 (18.8) | 8.79 (6.54) |
| 2 | 3450 (2820) | 1090 (896) | 35.5 (29.0) | 11.90 (9.76) | 2490 (1680) | 791 (534) | 25.8 (17.4) | 8.91 (6.00) |
| 3 | 1970 (1620) | 626 (515) | 20.3 (16.7) | 6.81 (5.60) | 2220 (1740) | 704 (552) | 22.9 (18.0) | 7.90 (6.19) |
| 4 | 2870 (2510) | 911 (795) | 29.5 (25.8) | 9.92 (8.66) | 4430 (4170) | 1410 (1330) | 45.8 (43.1) | 15.80 (14.90) |
| 5 | 1940 (1560) | 615 (495) | 19.9 (16.0) | 6.69 (5.39) | 1900 (1600) | 603 (507) | 19.6 (16.5) | 6.76 (5.69) |
| 6 | 1180 (1080) | 376 (343) | 12.2 (11.1) | 4.09 (3.73) | 1060 (1090) | 335 (347) | 10.9 (11.3) | 3.76 (3.90) |
| 7 | 1780 (1640) | 565 (519) | 18.3 (16.8) | 6.15 (5.66) | 2010 (1820) | 637 (578) | 20.7 (18.8) | 7.15 (6.48) |
| 8 | 1750 (1500) | 555 (477) | 18.0 (15.5) | 6.04 (5.20) | 2030 (1710) | 646 (544) | 21.0 (17.7) | 7.24 (6.10) |
| 9 | 1350 (1250) | 427 (398) | 13.8 (12.9) | 4.65 (4.34) | 1630 (1400) | 517 (446) | 16.8 (14.5) | 5.80 (5.00) |
| 10 | 1150 (783) | 366 (248) | 11.9 (8.1) | 3.96 (2.69) | 1320 (808) | 418 (257) | 13.6 (8.4) | 4.66 (2.85) |
| 11 | 1760 (1700) | 559 (538) | 18.1 (17.4) | 6.02 (5.79) | 1900 (1900) | 603 (602) | 19.6 (19.6) | 6.66 (6.65) |
| 12 | 1100 (1030) | 350 (326) | 11.3 (10.6) | 3.77 (3.50) | 1140 (1010) | 362 (321) | 11.8 (10.5) | 4.00 (3.55) |
| 13 | 1140 (1110) | 362 (353) | 11.7 (11.4) | 3.89 (3.80) | 1230 (1400) | 389 (443) | 12.7 (14.4) | 4.30 (4.89) |
| 14 | 1270 (1080) | 404 (343) | 13.1 (11.1) | 4.34 (3.69) | 1250 (1100) | 396 (349) | 12.9 (11.4) | 4.37 (3.85) |
| 15 | 1780 (1620) | 566 (513) | 18.4 (16.6) | 6.10 (5.52) | 2120 (1880) | 672 (597) | 21.9 (19.5) | 7.42 (6.60) |
| 16 | | | | | 2090 (1620) | 665 (513) | 21.7 (16.7) | 7.35 (5.67) |
| 17 | 2310 (1750) | 735 (557) | 23.8 (18.0) | 7.91 (5.99) | 2180 (1730) | 691 (550) | 22.5 (17.9) | 7.64 (6.08) |
| 18 | 3830 (3100) | 1220 (984) | 39.4 (31.9) | 13.10 (10.60) | 4140 (3370) | 1310 (1070) | 42.8 (34.9) | 14.50 (11.80) |
| 19 | 2590 (1880) | 821 (596) | 26.6 (19.3) | 8.84 (6.41) | 2340 (1930) | 743 (614) | 24.2 (20.0) | 8.22 (6.78) |
| 20 | 2590 (1740) | 823 (552) | 26.7 (17.9) | 8.86 (5.94) | 2700 (1830) | 858 (582) | 28.0 (19.0) | 9.48 (6.43) |
| 21 | 2310 (1900) | 733 (602) | 23.8 (19.5) | 7.90 (6.48) | 2670 (2070) | 847 (658) | 27.6 (21.5) | 9.36 (7.28) |
| 22 | 2430 (1910) | 771 (607) | 25.0 (19.7) | 8.30 (6.53) | 2510 (1910) | 797 (605) | 26.0 (19.7) | 8.81 (6.69) |
| 23 | 2440 (1710) | 775 (544) | 25.1 (17.6) | 8.35 (5.86) | 2110 (1610) | 670 (511) | 21.8 (16.7) | 7.41 (5.65) |
| 24 | 2750 (1970) | 872 (624) | 28.3 (20.2) | 9.37 (6.70) | 2500 (1960) | 795 (621) | 25.9 (20.3) | 8.77 (6.86) |
| 25 | 2900 (2240) | 919 (710) | 29.8 (23.0) | 9.87 (7.62) | 3060 (2100) | 972 (668) | 31.7 (21.8) | 10.70 (7.36) |
| 26 | 1060 (1300) | 337 (412) | 10.9 (13.4) | 3.62 (4.42) | 1390 (1480) | 440 (471) | 14.3 (15.3) | 4.85 (5.19) |
| 27 | 1340 (2090) | 424 (662) | 13.7 (21.5) | 4.55 (7.11) | 1540 (2000) | 490 (636) | 16.0 (20.7) | 5.40 (7.01) |
| 28 | 1510 (1580) | 481 (501) | 15.6 (16.3) | 5.16 (5.38) | 1620 (1690) | 515 (538) | 16.8 (17.5) | 5.68 (5.93) |
| 29 | 1820 (2210) | 578 (701) | 18.7 (22.7) | 6.20 (7.52) | 1760 (2200) | 560 (698) | 18.3 (22.8) | 6.17 (7.69) |
| 30 | 1720 (1490) | 545 (475) | 17.7 (15.4) | 5.86 (5.09) | 1630 (1530) | 518 (485) | 16.9 (15.8) | 5.71 (5.34) |
| Mean | 2020 | 640 | 20.8 | 6.92 | 2110 | 671 | 21.9 | 7.45 |
| n | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 |
| SD | 714 | 227 | 7.3 | 2.45 | 767 | 244 | 7.9 | 2.72 |
| Min | 1060 | 337 | 10.9 | 3.62 | 1060 | 335 | 10.9 | 3.76 |
| Max | 3830 | 1220 | 39.4 | 13.10 | 4430 | 1410 | 45.8 | 15.80 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for October, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 2320 (2080) | 736 (660) | 23.9 (21.4) | 7.90 (7.09) | 2130 (1990) | 677 (633) | 22.1 (20.6) | 7.47 (6.98) |
| 2 | 2480 (2300) | 788 (731) | 25.6 (23.7) | 8.46 (7.85) | 2290 (2230) | 728 (708) | 23.8 (23.1) | 8.03 (7.80) |
| 3 | 2490 (2250) | 792 (713) | 25.7 (23.1) | 8.50 (7.65) | 2540 (1970) | 806 (626) | 26.3 (20.4) | 8.89 (6.90) |
| 4 | 1960 (1400) | 624 (445) | 20.2 (14.4) | 6.70 (4.78) | 2720 (2070) | 864 (656) | 28.2 (21.4) | 9.58 (7.27) |
| 5 | 1760 (1250) | 559 (396) | 18.1 (12.8) | 6.00 (4.25) | 2440 (1750) | 776 (556) | 25.3 (18.1) | 8.63 (6.18) |
| 6 | 1950 (1470) | 619 (468) | 20.1 (15.2) | 6.64 (5.02) | 2350 (1690) | 747 (537) | 24.4 (17.5) | 8.32 (5.97) |
| 7 | 2080 (1590) | 659 (506) | 21.4 (16.4) | 7.08 (5.44) | 2310 (1820) | 734 (577) | 23.9 (18.8) | 8.17 (6.42) |
| 8 | 1880 (1510) | 595 (480) | 19.3 (15.6) | 6.39 (5.16) | 2350 (1960) | 745 (622) | 24.3 (20.3) | 8.27 (6.91) |
| 9 | 1530 (1360) | 487 (433) | 15.8 (14.1) | 5.23 (4.65) | 2060 (1520) | 655 (482) | 21.4 (15.7) | 7.27 (5.35) |
| 10 | 1520 (1100) | 481 (349) | 15.6 (11.3) | 5.17 (3.75) | 1890 (1340) | 599 (426) | 19.5 (13.9) | 6.65 (4.73) |
| 11 | 1740 (1240) | 551 (394) | 17.9 (12.8) | 5.92 (4.23) | 2040 (1380) | 649 (440) | 21.2 (14.3) | 7.20 (4.88) |
| 12 | 1690 (1240) | 536 (394) | 17.4 (12.8) | 5.76 (4.23) | 1840 (1340) | 584 (424) | 19.1 (13.8) | 6.49 (4.70) |
| 13 | 1750 (1520) | 556 (481) | 18.1 (15.6) | 5.98 (5.17) | 2020 (1590) | 641 (504) | 20.9 (16.4) | 7.12 (5.60) |
| 14 | 1570 (1670) | 497 (530) | 16.1 (17.2) | 5.34 (5.70) | 2030 (2220) | 645 (706) | 21.0 (23.0) | 7.16 (7.84) |
| 15 | 1570 (1740) | 497 (552) | 16.1 (17.9) | 5.34 (5.93) | 2140 (2040) | 679 (646) | 22.2 (21.1) | 7.54 (7.18) |
| 16 | 2480 (2720) | 787 (865) | 25.5 (28.1) | 8.45 (9.29) | 2730 (2680) | 866 (852) | 28.3 (27.8) | 9.62 (9.46) |
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| 30 | | | | | | | | |
| 31 | 1890 (1320) | 601 (419) | 19.5 (13.6) | 6.52 (4.55) | 1740 (1220) | 551 (388) | 18.0 (12.7) | 6.26 (4.40) |
| Mean | 1920 | 610 | 19.8 | 6.55 | 2210 | 703 | 22.9 | 7.80 |
| n | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| SD | 330 | 105 | 3.4 | 1.12 | 281 | 89 | 2.9 | 0.98 |
| Min | 1520 | 481 | 15.6 | 5.17 | 1740 | 551 | 18.0 | 6.26 |
| Max | 2490 | 792 | 25.7 | 8.50 | 2730 | 866 | 28.3 | 9.62 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for November, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1970 (1410) | 625 (447) | 20.3 (14.5) | 6.78 (4.85) | 1780 (1360) | 565 (430) | 18.5 (14.0) | 6.42 (4.88) |
| 2 | 2160 (1660) | 687 (527) | 22.3 (17.1) | 7.46 (5.72) | 1800 (1320) | 572 (419) | 18.7 (13.7) | 6.49 (4.76) |
| 3 | 1820 (1320) | 579 (419) | 18.8 (13.6) | 6.28 (4.55) | 1670 (1740) | 530 (552) | 17.3 (18.0) | 6.02 (6.26) |
| 4 | 1490 (926) | 473 (294) | 15.4 (9.6) | 5.14 (3.19) | 1390 (1160) | 441 (368) | 14.4 (12.0) | 5.01 (4.18) |
| 5 | 1630 (970) | 517 (308) | 16.8 (10.0) | 5.61 (3.34) | 1480 (1100) | 469 (350) | 15.3 (11.4) | 5.32 (3.98) |
| 6 | 2090 (1650) | 665 (523) | 21.6 (17.0) | 7.22 (5.67) | 2230 (2270) | 708 (722) | 23.1 (23.6) | 8.04 (8.20) |
| 7 | 1880 (1620) | 597 (514) | 19.4 (16.7) | 6.49 (5.58) | 1790 (1450) | 567 (459) | 18.5 (15.0) | 6.44 (5.21) |
| 8 | 1600 (1170) | 509 (372) | 16.5 (12.1) | 5.53 (4.04) | 1490 (1330) | 474 (424) | 15.5 (13.8) | 5.38 (4.80) |
| 9 | 1470 (1310) | 466 (414) | 15.1 (13.5) | 5.06 (4.50) | 1230 (1010) | 390 (322) | 12.7 (10.5) | 4.41 (3.64) |
| 10 | 1460 (1110) | 463 (354) | 15.1 (11.5) | 5.03 (3.84) | 1110 (897) | 352 (285) | 11.7 (9.5) | 4.05 (3.28) |
| 11 | 1400 (1080) | 444 (342) | 14.4 (11.1) | 4.82 (3.71) | 1080 (1100) | 343 (351) | 11.4 (11.6) | 3.94 (4.02) |
| 12 | 1390 (1400) | 443 (444) | 14.4 (14.4) | 4.81 (4.82) | 791 (880) | 251 (279) | 8.2 (9.1) | 2.84 (3.16) |
| 13 | 1480 (1330) | 471 (421) | 15.3 (13.7) | 5.12 (4.57) | 986 (1210) | 313 (383) | 10.2 (12.5) | 3.55 (4.33) |
| 14 | 1930 (1240) | 612 (394) | 19.9 (12.8) | 6.65 (4.28) | 1760 (1180) | 560 (374) | 18.3 (12.2) | 6.34 (4.23) |
| 15 | 1640 (974) | 521 (309) | 16.9 (10.1) | 5.65 (3.36) | 1790 (1240) | 569 (393) | 18.6 (12.9) | 6.44 (4.46) |
| 16 | 1660 (1190) | 528 (379) | 17.2 (12.3) | 5.74 (4.11) | 1690 (1140) | 536 (361) | 17.5 (11.8) | 6.07 (4.09) |
| 17 | 1580 (1140) | 503 (361) | 16.4 (11.7) | 5.47 (3.92) | 1680 (1160) | 535 (369) | 17.5 (12.0) | 6.06 (4.18) |
| 18 | 1560 (1230) | 497 (392) | 16.3 (12.9) | 5.46 (4.31) | 1640 (1170) | 522 (373) | 17.0 (12.2) | 5.91 (4.22) |
| 19 | 1460 (1070) | 463 (341) | 15.2 (11.2) | 5.15 (3.80) | 1430 (958) | 455 (304) | 14.9 (9.9) | 5.15 (3.45) |
| 20 | 1700 (1750) | 540 (554) | 17.6 (18.0) | 6.03 (6.19) | 1830 (1520) | 581 (482) | 19.0 (15.8) | 6.59 (5.46) |
| 21 | 1540 (1210) | 488 (383) | 15.9 (12.5) | 5.45 (4.28) | 1510 (1020) | 478 (323) | 15.6 (10.5) | 5.41 (3.66) |
| 22 | 1370 (998) | 434 (317) | 14.1 (10.3) | 4.85 (3.54) | 1330 (889) | 421 (282) | 13.8 (9.2) | 4.79 (3.21) |
| 23 | 1350 (1040) | 427 (329) | 13.9 (10.7) | 4.77 (3.68) | 1270 (882) | 402 (280) | 13.1 (9.2) | 4.59 (3.20) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | 1880 (1290) | 596 (410) | 19.4 (13.3) | 6.66 (4.58) | 1690 (1040) | 538 (331) | 17.6 (10.8) | 6.15 (3.78) |
| 28 | 1940 (1660) | 614 (528) | 20.0 (17.2) | 6.87 (5.90) | 1630 (1270) | 518 (402) | 16.9 (13.2) | 5.93 (4.60) |
| 29 | 1550 (1180) | 491 (376) | 16.0 (12.2) | 5.49 (4.20) | 1210 (1010) | 385 (322) | 12.6 (10.5) | 4.40 (3.69) |
| 30 | 1260 (832) | 400 (264) | 13.0 (8.6) | 4.47 (2.95) | 258 (368) | 82 (117) | 2.7 (3.8) | 0.94 (1.34) |
| Mean | 1640 | 520 | 16.9 | 5.71 | 1460 | 465 | 15.2 | 5.28 |
| n | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| SD | 236 | 75 | 2.4 | 0.81 | 389 | 124 | 4.0 | 1.40 |
| Min | 1260 | 400 | 13.0 | 4.47 | 258 | 82 | 2.7 | 0.94 |
| Max | 2160 | 687 | 22.3 | 7.46 | 2230 | 708 | 23.1 | 8.04 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for December, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1370 (1160) | 436 (369) | 14.2 (12.0) | 4.88 (4.12) | 242 (319) | 77 (101) | 2.5 (3.3) | 0.88 (1.16) |
| 2 | 1190 (858) | 378 (272) | 12.3 (8.9) | 4.23 (3.05) | 288 (306) | 92 (97) | 3.0 (3.2) | 1.05 (1.11) |
| 3 | 1150 (836) | 366 (265) | 11.9 (8.6) | 4.09 (2.97) | 223 (228) | 71 (73) | 2.4 (2.4) | 0.82 (0.84) |
| 4 | 1420 (1120) | 449 (355) | 14.6 (11.6) | 5.02 (3.97) | 265 (450) | 84 (143) | 2.8 (4.7) | 0.98 (1.65) |
| 5 | 1500 (1160) | 476 (368) | 15.5 (12.0) | 5.33 (4.12) | 283 (338) | 90 (107) | 2.9 (3.5) | 1.03 (1.23) |
| 6 | 1270 (1100) | 404 (350) | 13.2 (11.4) | 4.52 (3.91) | 211 (380) | 67 (121) | 2.2 (3.9) | 0.77 (1.38) |
| 7 | 1190 (941) | 379 (299) | 12.3 (9.7) | 4.24 (3.34) | 196 (344) | 62 (109) | 2.0 (3.6) | 0.71 (1.25) |
| 8 | 1190 (875) | 377 (278) | 12.3 (9.0) | 4.21 (3.11) | 253 (336) | 80 (107) | 2.6 (3.5) | 0.92 (1.22) |
| 9 | 1740 (1680) | 553 (532) | 18.0 (17.3) | 6.18 (5.95) | 223 (1100) | 71 (350) | 2.3 (11.5) | 0.81 (4.01) |
| 10 | 1570 (1470) | 498 (467) | 16.2 (15.2) | 5.58 (5.22) | 154 (884) | 49 (281) | 1.6 (9.2) | 0.56 (3.21) |
| 11 | 1820 (1320) | 578 (420) | 18.8 (13.7) | 6.46 (4.70) | 1050 (1770) | 332 (560) | 10.9 (18.3) | 3.80 (6.42) |
| 12 | 2020 (1420) | 642 (451) | 20.9 (14.7) | 7.18 (5.05) | 1870 (1130) | 594 (360) | 19.5 (11.8) | 6.81 (4.12) |
| 13 | 1580 (1030) | 500 (326) | 16.3 (10.6) | 5.60 (3.64) | 1570 (954) | 498 (303) | 16.3 (9.9) | 5.72 (3.48) |
| 14 | 1520 (989) | 481 (314) | 15.7 (10.2) | 5.39 (3.51) | 1480 (850) | 469 (270) | 15.4 (8.8) | 5.41 (3.11) |
| 15 | 2250 (1700) | 714 (540) | 23.3 (17.6) | 7.99 (6.05) | 2090 (1710) | 664 (544) | 21.7 (17.8) | 7.65 (6.27) |
| 16 | 1380 (1370) | 437 (435) | 14.2 (14.2) | 4.89 (4.87) | 1480 (1330) | 471 (422) | 15.4 (13.8) | 5.42 (4.86) |
| 17 | 1440 (1210) | 458 (383) | 14.9 (12.5) | 5.12 (4.28) | 1480 (1330) | 469 (422) | 15.4 (13.8) | 5.41 (4.86) |
| 18 | 1360 (971) | 433 (308) | 14.1 (10.1) | 4.85 (3.45) | 1550 (1080) | 493 (342) | 16.1 (11.2) | 5.69 (3.95) |
| 19 | 2430 (1900) | 772 (604) | 25.2 (19.7) | 8.65 (6.76) | 1910 (1880) | 607 (598) | 19.9 (19.6) | 7.00 (6.90) |
| 20 | 1720 (1150) | 546 (364) | 17.8 (11.9) | 6.11 (4.08) | 1530 (1870) | 487 (592) | 15.9 (19.4) | 5.61 (6.83) |
| 21 | 1460 (1110) | 464 (354) | 15.1 (11.5) | 5.18 (3.95) | 1480 (1060) | 471 (337) | 15.4 (11.0) | 5.43 (3.89) |
| 22 | 975 (528) | 309 (168) | 10.1 (5.5) | 3.45 (1.87) | 1100 (616) | 348 (195) | 11.4 (6.4) | 4.02 (2.25) |
| 23 | 1070 (737) | 341 (234) | 11.1 (7.6) | 3.80 (2.61) | 1140 (674) | 363 (214) | 11.9 (7.0) | 4.19 (2.47) |
| 24 | 1900 (1450) | 602 (461) | 19.6 (15.0) | 6.71 (5.13) | 1790 (1770) | 570 (560) | 18.7 (18.3) | 6.57 (6.46) |
| 25 | 1930 (1510) | 612 (481) | 20.0 (15.7) | 6.81 (5.35) | 1770 (1380) | 562 (439) | 18.4 (14.4) | 6.49 (5.06) |
| 26 | 1090 (718) | 347 (228) | 11.3 (7.4) | 3.85 (2.53) | 967 (557) | 307 (177) | 10.0 (5.8) | 3.54 (2.04) |
| 27 | 1350 (1190) | 429 (378) | 14.0 (12.3) | 4.76 (4.20) | 1250 (733) | 398 (233) | 13.0 (7.6) | 4.59 (2.69) |
| 28 | 1630 (1120) | 517 (357) | 16.9 (11.6) | 5.74 (3.96) | 1600 (1110) | 508 (353) | 16.6 (11.6) | 5.86 (4.07) |
| 29 | 1980 (1660) | 629 (527) | 20.5 (17.2) | 6.98 (5.85) | 1810 (1460) | 574 (462) | 18.8 (15.1) | 6.62 (5.33) |
| 30 | 1920 (1790) | 609 (567) | 19.9 (18.5) | 6.76 (6.30) | 1910 (1540) | 606 (488) | 19.9 (16.0) | 7.00 (5.63) |
| 31 | 1730 (1290) | 549 (410) | 17.9 (13.4) | 6.10 (4.55) | 1350 (872) | 430 (277) | 14.1 (9.1) | 4.96 (3.19) |
| Mean | 1550 | 493 | 16.1 | 5.50 | 1110 | 354 | 11.6 | 4.07 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 351 | 111 | 3.6 | 1.24 | 657 | 209 | 6.8 | 2.41 |
| Min | 975 | 309 | 10.1 | 3.45 | 154 | 49 | 1.6 | 0.56 |
| Max | 2430 | 772 | 25.2 | 8.65 | 2090 | 664 | 21.7 | 7.65 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for January, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1020 (711) | 324 (226) | 10.6 (7.4) | 3.60 (2.51) | 1120 (691) | 354 (220) | 11.6 (7.2) | 4.09 (2.53) |
| 2 | 936 (662) | 297 (210) | 9.7 (6.9) | 3.30 (2.33) | 983 (537) | 312 (170) | 10.2 (5.6) | 3.60 (1.97) |
| 3 | 1320 (934) | 419 (296) | 13.7 (9.7) | 4.66 (3.29) | 1250 (801) | 396 (254) | 13.0 (8.3) | 4.57 (2.93) |
| 4 | | | | | | | | |
| 5 | 1590 (1290) | 505 (411) | 16.5 (13.4) | 5.61 (4.56) | 1490 (960) | 474 (305) | 15.5 (10.0) | 5.47 (3.52) |
| 6 | 1030 (667) | 328 (212) | 10.7 (6.9) | 3.64 (2.35) | 1150 (681) | 364 (216) | 11.9 (7.1) | 4.20 (2.49) |
| 7 | 1790 (2340) | 568 (744) | 18.5 (24.3) | 6.31 (8.26) | 1530 (1180) | 487 (374) | 16.0 (12.3) | 5.62 (4.32) |
| 8 | 1220 (982) | 387 (312) | 12.6 (10.2) | 4.30 (3.46) | 1190 (802) | 378 (255) | 12.4 (8.4) | 4.37 (2.94) |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | 720 (629) | 229 (200) | 7.5 (6.5) | 2.54 (2.22) | 1250 (647) | 396 (206) | 13.0 (6.7) | 4.51 (2.34) |
| 17 | 900 (505) | 286 (160) | 9.3 (5.2) | 3.18 (1.78) | 1120 (585) | 354 (186) | 11.6 (6.1) | 4.04 (2.12) |
| 18 | 1080 (1000) | 341 (318) | 11.2 (10.4) | 3.80 (3.54) | 1180 (765) | 374 (243) | 12.3 (8.0) | 4.27 (2.77) |
| 19 | 1140 (1130) | 362 (360) | 11.8 (11.8) | 4.03 (4.01) | 1220 (902) | 388 (286) | 12.7 (9.4) | 4.43 (3.27) |
| 20 | 1040 (895) | 330 (284) | 10.8 (9.3) | 3.67 (3.16) | 1230 (1060) | 391 (336) | 12.8 (11.0) | 4.45 (3.83) |
| 21 | 1380 (1170) | 437 (371) | 14.3 (12.1) | 4.86 (4.12) | 1540 (1270) | 490 (403) | 16.1 (13.2) | 5.61 (4.61) |
| 22 | | | | | 2130 (1780) | 676 (564) | 22.2 (18.5) | 7.76 (6.48) |
| 23 | | | | | 2800 (2290) | 887 (726) | 29.1 (23.8) | 10.20 (8.34) |
| 24 | | | | | 2580 (1610) | 820 (510) | 26.9 (16.7) | 9.41 (5.86) |
| 25 | | | | | 2030 (1480) | 643 (470) | 21.1 (15.4) | 7.39 (5.40) |
| 26 | | | | | 1940 (1470) | 615 (468) | 20.2 (15.4) | 7.07 (5.37) |
| 27 | | | | | 1740 (1130) | 551 (359) | 18.1 (11.8) | 6.33 (4.12) |
| 28 | | | | | 2020 (1920) | 640 (608) | 20.9 (19.8) | 7.31 (6.94) |
| 29 | | | | | 2690 (2830) | 852 (900) | 27.9 (29.4) | 9.75 (10.30) |
| 30 | | | | | 2340 (1790) | 742 (567) | 24.4 (18.6) | 8.53 (6.52) |
| 31 | 1800 (1300) | 571 (414) | 18.7 (13.6) | 6.36 (4.61) | 2110 (1510) | 671 (480) | 22.0 (15.8) | 7.71 (5.52) |
| Mean | 1210 | 385 | 12.6 | 4.28 | 1680 | 533 | 17.5 | 6.12 |
| n | 14 | 14 | 14 | 14 | 23 | 23 | 23 | 23 |
| SD | 316 | 100 | 3.3 | 1.12 | 550 | 175 | 5.7 | 2.00 |
| Min | 720 | 229 | 7.5 | 2.54 | 983 | 312 | 10.2 | 3.60 |
| Max | 1800 | 571 | 18.7 | 6.36 | 2800 | 887 | 29.1 | 10.20 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for February, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 2140 (2040) | 678 (647) | 22.2 (21.2) | 7.56 (7.21) | 2560 (2030) | 813 (644) | 26.7 (21.1) | 9.34 (7.40) |
| 2 | 2050 (1750) | 649 (557) | 21.3 (18.2) | 7.24 (6.20) | 2770 (2340) | 881 (743) | 28.9 (24.4) | 10.10 (8.54) |
| 3 | 1440 (1070) | 458 (339) | 15.0 (11.1) | 5.11 (3.78) | 1710 (1060) | 544 (338) | 17.9 (11.1) | 6.25 (3.88) |
| 4 | 1220 (857) | 387 (272) | 12.7 (8.9) | 4.31 (3.03) | 1580 (1000) | 500 (319) | 16.4 (10.5) | 5.75 (3.66) |
| 5 | 1480 (1320) | 470 (418) | 15.4 (13.7) | 5.24 (4.66) | 1590 (1200) | 503 (380) | 16.5 (12.5) | 5.79 (4.37) |
| 6 | 1660 (1160) | 528 (367) | 17.3 (12.0) | 5.89 (4.09) | 2130 (1530) | 676 (486) | 22.2 (16.0) | 7.78 (5.59) |
| 7 | 1870 (1170) | 593 (372) | 19.5 (12.2) | 6.62 (4.15) | 2750 (2790) | 872 (887) | 28.7 (29.1) | 10.00 (10.20) |
| 8 | 1980 (1610) | 628 (510) | 20.6 (16.7) | 7.00 (5.69) | | | | |
| 9 | 1930 (1690) | 614 (536) | 20.1 (17.6) | 6.85 (5.97) | 2670 (2830) | 848 (899) | 27.9 (29.5) | 9.75 (10.30) |
| 10 | 1470 (1520) | 466 (483) | 15.3 (15.8) | 5.19 (5.39) | 2560 (2420) | 812 (769) | 26.7 (25.3) | 9.34 (8.85) |
| 11 | 1780 (1780) | 564 (566) | 18.5 (18.6) | 6.29 (6.32) | 2610 (3090) | 828 (982) | 27.2 (32.3) | 9.52 (11.30) |
| 12 | 1970 (1880) | 625 (598) | 20.5 (19.6) | 6.97 (6.67) | 2620 (2950) | 833 (937) | 27.4 (30.8) | 9.58 (10.80) |
| 13 | 2100 (1590) | 666 (503) | 21.9 (16.5) | 7.43 (5.62) | 2680 (1850) | 852 (588) | 28.0 (19.3) | 9.80 (6.77) |
| 14 | 1750 (1570) | 557 (497) | 18.3 (16.3) | 6.22 (5.55) | 2410 (1720) | 764 (546) | 25.1 (18.0) | 8.79 (6.28) |
| 15 | 1600 (1470) | 507 (466) | 16.6 (15.3) | 5.65 (5.20) | 1940 (1460) | 617 (463) | 20.3 (15.2) | 7.10 (5.33) |
| 16 | 1330 (1220) | 423 (388) | 13.9 (12.7) | 4.72 (4.33) | 1570 (1290) | 498 (409) | 16.4 (13.4) | 5.73 (4.71) |
| 17 | 1180 (1050) | 375 (333) | 12.3 (10.9) | 4.19 (3.71) | 1260 (1040) | 401 (331) | 13.2 (10.9) | 4.62 (3.81) |
| 18 | 956 (871) | 304 (277) | 10.0 (9.1) | 3.39 (3.09) | 737 (773) | 234 (245) | 7.7 (8.1) | 2.69 (2.82) |
| 19 | 2180 (2500) | 693 (795) | 22.8 (26.1) | 7.85 (9.00) | 1800 (2570) | 572 (815) | 18.8 (26.8) | 6.64 (9.45) |
| 20 | 2010 (1310) | 637 (417) | 20.9 (13.7) | 7.27 (4.76) | 2260 (1430) | 718 (455) | 23.6 (15.0) | 8.38 (5.31) |
| 21 | 1940 (1590) | 615 (506) | 20.2 (16.6) | 7.03 (5.78) | 2530 (1910) | 804 (605) | 26.5 (19.9) | 9.38 (7.06) |
| 22 | 1770 (1320) | 561 (419) | 18.4 (13.8) | 6.40 (4.79) | 2340 (1740) | 744 (552) | 24.5 (18.2) | 8.68 (6.44) |
| 23 | 1650 (1240) | 523 (393) | 17.2 (12.9) | 5.97 (4.49) | 2030 (1610) | 644 (512) | 21.2 (16.9) | 7.51 (5.97) |
| 24 | 1340 (1080) | 427 (342) | 14.0 (11.2) | 4.87 (3.91) | 1880 (1570) | 596 (498) | 19.6 (16.4) | 6.96 (5.81) |
| 25 | 1370 (1450) | 435 (459) | 14.3 (15.1) | 4.97 (5.25) | 1870 (1620) | 593 (513) | 19.5 (16.9) | 6.92 (5.99) |
| 26 | | | | | 2460 (3170) | 781 (1010) | 25.7 (33.2) | 9.12 (11.80) |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| Mean | 1690 (1440) | 535 (458) | 17.6 (15.0) | 6.01 (5.15) | 2130 (1880) | 677 (597) | 22.3 (19.6) | 7.82 (6.90) |
| n | 25 | 25 | 25.0 | 25.00 | 25 | 25 | 25.0 | 25.00 |
| SD | 329 | 104 | 3 | 1 | 518 | 165 | 5 | 2 |
| Min | 956 | 304 | 10.0 | 3.39 | 737 | 234 | 7.7 | 2.69 |
| Max | 2180 | 693 | 22.8 | 7.85 | 2770 | 881 | 28.9 | 10.10 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for March, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | 2990 (2380) | 948 (755) | 31.2 (24.9) | 11.10 (8.82) |
| 6 | | | | | 3040 (2380) | 965 (756) | 31.8 (24.9) | 11.30 (8.82) |
| 7 | | | | | 3330 (2190) | 1060 (696) | 34.8 (22.9) | 12.40 (8.12) |
| 8 | | | | | 2600 (3120) | 826 (991) | 27.2 (32.7) | 9.65 (11.60) |
| 9 | | | | | 2760 (2100) | 875 (666) | 28.9 (21.9) | 10.20 (7.78) |
| 10 | | | | | 3660 (2790) | 1160 (887) | 38.3 (29.2) | 13.60 (10.40) |
| 11 | | | | | 2710 (2120) | 861 (674) | 28.4 (22.2) | 10.10 (7.87) |
| 12 | | | | | 3180 (3210) | 1010 (1020) | 33.3 (33.6) | 11.80 (11.90) |
| 13 | | | | | 2740 (2230) | 868 (709) | 28.6 (23.4) | 10.10 (8.29) |
| 14 | | | | | 2330 (1720) | 740 (546) | 24.4 (18.0) | 8.65 (6.39) |
| 15 | | | | | 2450 (2160) | 777 (686) | 25.6 (22.6) | 9.08 (8.02) |
| 16 | | | | | 3450 (3960) | 1090 (1260) | 36.1 (41.5) | 12.80 (14.70) |
| 17 | | | | | 2330 (1840) | 740 (583) | 24.4 (19.2) | 8.65 (6.81) |
| 18 | | | | | 1670 (1880) | 529 (597) | 17.4 (19.7) | 6.18 (6.98) |
| 19 | | | | | 3680 (4080) | 1170 (1300) | 38.5 (42.8) | 13.60 (15.10) |
| 20 | | | | | 3340 (2300) | 1060 (731) | 34.9 (24.1) | 12.30 (8.52) |
| 21 | | | | | 2910 (2240) | 924 (712) | 30.5 (23.5) | 10.80 (8.30) |
| 22 | | | | | 2770 (2100) | 880 (665) | 29.0 (22.0) | 10.30 (7.76) |
| 23 | | | | | 9380 (13200) | 2980 (4190) | 98.3 (138.0) | 34.70 (48.90) |
| 24 | | | | | | | | |
| 25 | | | | | 4110 (3130) | 1310 (995) | 43.1 (32.8) | 15.20 (11.60) |
| 26 | | | | | 3960 (3140) | 1260 (998) | 41.5 (32.9) | 14.70 (11.60) |
| 27 | | | | | 4550 (3730) | 1450 (1180) | 47.7 (39.1) | 16.90 (13.80) |
| 28 | | | | | 3620 (2430) | 1150 (772) | 38.0 (25.5) | 13.40 (9.01) |
| 29 | | | | | 2890 (2820) | 918 (897) | 30.3 (29.6) | 10.70 (10.50) |
| 30 | | | | | 3360 (2210) | 1070 (702) | 35.2 (23.2) | 12.40 (8.19) |
| 31 | | | | | 3190 (2980) | 1010 (945) | 33.5 (31.2) | 11.80 (11.00) |
| Mean | | | | | 3350 | 1060 | 35.0 | 12.40 |
| n | 0 | 0 | 0 | 0 | 26 | 26 | 26 | 26 |
| SD | | | | | 1350 | 429 | 14.2 | 5.00 |
| Min | | | | | 1670 | 529 | 17.4 | 6.18 |
| Max | | | | | 9380 | 2980 | 98.3 | 34.70 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for April, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 3270 (2280) | 1040 (724) | 34.3 (23.9) | 12.10 (8.44) |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | 4040 (2730) | 1280 (866) | 42.4 (28.7) | 15.00 (10.10) |
| 12 | | | | | 3100 (2110) | 986 (670) | 32.6 (22.2) | 11.50 (7.84) |
| 13 | | | | | 3010 (2750) | 956 (872) | 31.7 (28.9) | 11.20 (10.20) |
| 14 | | | | | 2640 (2030) | 839 (644) | 27.8 (21.3) | 9.81 (7.53) |
| 15 | | | | | 2910 (2200) | 924 (698) | 30.6 (23.1) | 10.80 (8.17) |
| 16 | | | | | 3120 (2840) | 990 (900) | 32.8 (29.8) | 11.60 (10.50) |
| 17 | | | | | 3510 (2480) | 1110 (786) | 36.9 (26.0) | 13.00 (9.19) |
| 18 | | | | | 3140 (2620) | 996 (832) | 33.0 (27.6) | 11.70 (9.74) |
| 19 | | | | | 4330 (2790) | 1370 (886) | 45.5 (29.3) | 16.10 (10.40) |
| 20 | | | | | 3270 (2230) | 1040 (707) | 34.4 (23.4) | 12.10 (8.27) |
| 21 | | | | | 3410 (2470) | 1080 (784) | 35.8 (26.0) | 12.70 (9.18) |
| 22 | | | | | 2750 (2060) | 874 (655) | 29.0 (21.7) | 10.20 (7.63) |
| 23 | | | | | 3500 (3260) | 1110 (1030) | 36.8 (34.3) | 12.90 (12.00) |
| 24 | | | | | 3630 (2320) | 1150 (737) | 38.2 (24.4) | 13.40 (8.55) |
| 25 | | | | | 3090 (1790) | 980 (568) | 32.5 (18.8) | 11.40 (6.59) |
| 26 | | | | | 3190 (1890) | 1010 (601) | 33.6 (19.9) | 11.80 (6.97) |
| 27 | | | | | 3060 (1920) | 972 (610) | 32.2 (20.2) | 11.30 (7.09) |
| 28 | | | | | 3360 (2010) | 1070 (639) | 35.4 (21.2) | 12.40 (7.42) |
| 29 | | | | | 3670 (2410) | 1170 (764) | 38.7 (25.3) | 13.50 (8.87) |
| 30 | | | | | 4340 (4060) | 1380 (1290) | 45.7 (42.7) | 16.00 (15.00) |
| Mean | | | | | 3350 | 1060 | 35.2 | 12.40 |
| n | 0 | 0 | 0 | 0 | 21 | 21 | 21 | 21 |
| SD | | | | | 444 | 141 | 4.7 | 1.64 |
| Min | | | | | 2640 | 839 | 27.8 | 9.81 |
| Max | | | | | 4340 | 1380 | 45.7 | 16.10 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for May, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 3050 (2420) | 970 (769) | 32.2 (25.5) | 11.30 (8.94) |
| 2 | | | | | | | | |
| 3 | | | | | 2790 (2290) | 884 (728) | 29.4 (24.2) | 10.30 (8.46) |
| 4 | | | | | 3350 (3220) | 1060 (1020) | 35.4 (34.0) | 12.40 (11.90) |
| 5 | | | | | 2960 (2080) | 940 (662) | 31.2 (22.0) | 10.90 (7.69) |
| 6 | | | | | 3840 (3120) | 1220 (992) | 40.5 (33.0) | 14.20 (11.50) |
| 7 | | | | | 3200 (1950) | 1010 (620) | 33.7 (20.6) | 11.80 (7.21) |
| 8 | | | | | 2950 (1940) | 936 (615) | 31.1 (20.4) | 10.90 (7.15) |
| 9 | | | | | | | | |
| 10 | | | | | 3960 (2480) | 1260 (788) | 41.8 (26.2) | 14.60 (9.17) |
| 11 | | | | | 3450 (2150) | 1100 (683) | 36.4 (22.7) | 12.70 (7.94) |
| 12 | | | | | 3590 (2870) | 1140 (911) | 37.9 (30.3) | 13.30 (10.60) |
| 13 | | | | | 3830 (2940) | 1220 (932) | 40.4 (31.0) | 14.20 (10.90) |
| 14 | | | | | 4530 (4190) | 1440 (1330) | 47.8 (44.2) | 16.70 (15.50) |
| 15 | | | | | 3040 (2450) | 967 (777) | 32.2 (25.8) | 11.30 (9.04) |
| 16 | | | | | 2640 (2210) | 837 (702) | 27.9 (23.4) | 9.75 (8.18) |
| 17 | | | | | 2800 (1990) | 889 (631) | 29.6 (21.0) | 10.40 (7.35) |
| 18 | | | | | 3140 (2170) | 997 (688) | 33.2 (22.9) | 11.60 (8.02) |
| 19 | | | | | 3440 (3170) | 1090 (1010) | 36.3 (33.5) | 12.70 (11.70) |
| 20 | | | | | 3410 (3470) | 1080 (1100) | 36.1 (36.7) | 12.60 (12.80) |
| 21 | | | | | 5400 (5010) | 1710 (1590) | 57.1 (53.0) | 20.00 (18.60) |
| 22 | | | | | 4230 (2880) | 1340 (916) | 44.8 (30.5) | 15.70 (10.70) |
| 23 | | | | | 3880 (2270) | 1230 (721) | 41.1 (24.0) | 14.40 (8.41) |
| 24 | | | | | 3400 (2290) | 1080 (726) | 36.0 (24.2) | 12.60 (8.48) |
| 25 | | | | | 3430 (2200) | 1090 (698) | 36.3 (23.3) | 12.70 (8.14) |
| 26 | | | | | 3350 (2420) | 1060 (770) | 35.5 (25.7) | 12.40 (8.98) |
| 27 | | | | | 3500 (2520) | 1110 (799) | 37.1 (26.6) | 13.00 (9.32) |
| 28 | | | | | | | | |
| 29 | | | | | 4470 (3490) | 1420 (1110) | 47.4 (37.0) | 16.60 (13.00) |
| 30 | | | | | 4740 (3340) | 1500 (1060) | 50.2 (35.4) | 17.60 (12.40) |
| 31 | | | | | 4160 (2870) | 1320 (912) | 44.1 (30.5) | 15.40 (10.70) |
| Mean | | | | | 3590 | 1140 | 38.0 | 13.30 |
| n | 0 | 0 | 0 | 0 | 28 | 28 | 28 | 28 |
| SD | | | | | 640 | 203 | 6.8 | 2.38 |
| Min | | | | | 2640 | 837 | 27.9 | 9.75 |
| Max | | | | | 5400 | 1710 | 57.1 | 20.00 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for June, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 4900 (3480) | 1550 (1110) | 51.9 (37.0) | 18.20 (12.90) |
| 2 | | | | | 3660 (3030) | 1160 (961) | 38.8 (32.1) | 13.60 (11.20) |
| 3 | | | | | 3490 (2410) | 1110 (765) | 37.0 (25.6) | 12.90 (8.94) |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | 3430 (2900) | 1090 (920) | 36.4 (30.8) | 12.70 (10.80) |
| 13 | | | | | 3590 (3320) | 1140 (1050) | 38.1 (35.3) | 13.30 (12.40) |
| 14 | | | | | 4290 (3870) | 1360 (1230) | 45.6 (41.2) | 16.00 (14.40) |
| 15 | | | | | 4070 (3660) | 1290 (1160) | 43.3 (39.0) | 15.20 (13.60) |
| 16 | | | | | 4130 (4620) | 1310 (1470) | 43.9 (49.1) | 15.40 (17.20) |
| 17 | | | | | 3420 (2890) | 1090 (919) | 36.4 (30.8) | 12.40 (10.50) |
| 18 | | | | | 3800 (3160) | 1210 (1000) | 40.4 (33.6) | 13.50 (11.20) |
| 19 | | | | | 3590 (3040) | 1140 (964) | 38.2 (32.3) | 12.70 (10.80) |
| 20 | | | | | 2500 (1460) | 794 (463) | 26.6 (15.5) | 8.90 (5.19) |
| 21 | | | | | 3800 (1950) | 1210 (620) | 40.5 (20.8) | 13.50 (6.95) |
| 22 | | | | | 4470 (2710) | 1420 (859) | 47.6 (28.8) | 15.90 (9.63) |
| 23 | | | | | 3740 (2230) | 1190 (709) | 39.8 (23.8) | 13.30 (7.94) |
| 24 | | | | | 3460 (2140) | 1100 (679) | 36.9 (22.8) | 12.30 (7.62) |
| 25 | | | | | 5150 (3990) | 1640 (1270) | 54.9 (42.5) | 18.30 (14.20) |
| 26 | | | | | 3860 (2300) | 1230 (729) | 41.1 (24.5) | 13.70 (8.18) |
| 27 | | | | | 3660 (2400) | 1160 (762) | 39.0 (25.6) | 13.00 (8.55) |
| 28 | | | | | 4280 (2850) | 1360 (905) | 45.7 (30.4) | 15.30 (10.10) |
| 29 | | | | | 3860 (2890) | 1230 (917) | 41.1 (30.8) | 13.70 (10.30) |
| 30 | | | | | 3900 (5030) | 1240 (1600) | 41.6 (53.7) | 13.90 (17.90) |
| Mean | | | | | 3870 | 1230 | 41.1 | 14.00 |
| n | 0 | 0 | 0 | 0 | 22 | 22 | 22 | 22 |
| SD | | | | | 538 | 171 | 5.7 | 1.98 |
| Min | | | | | 2500 | 794 | 26.6 | 8.90 |
| Max | | | | | 5150 | 1640 | 54.9 | 18.30 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for July, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 3680 (3000) | 1170 (954) | 39.2 (32.0) | 13.10 (10.70) |
| 2 | | | | | 5160 (6170) | 1640 (1960) | 55.1 (65.9) | 18.40 (22.00) |
| 3 | | | | | 6570 (7010) | 2090 (2230) | 70.1 (74.9) | 23.40 (25.00) |
| 4 | | | | | 3160 (2670) | 1000 (848) | 33.8 (28.5) | 11.30 (9.52) |
| 5 | | | | | 2990 (2510) | 951 (796) | 32.0 (26.8) | 10.70 (8.94) |
| 6 | | | | | 2650 (2120) | 842 (673) | 28.3 (22.6) | 9.46 (7.56) |
| 7 | | | | | 3520 (3450) | 1120 (1090) | 37.6 (36.8) | 12.50 (12.30) |
| 8 | | | | | 3720 (3350) | 1180 (1060) | 39.8 (35.8) | 13.30 (12.00) |
| 9 | | | | | 5830 (4620) | 1850 (1470) | 62.3 (49.3) | 20.80 (16.50) |
| 10 | | | | | 3860 (2110) | 1220 (671) | 41.2 (22.6) | 13.80 (7.55) |
| 11 | | | | | 3380 (1950) | 1070 (620) | 36.1 (20.9) | 12.10 (6.97) |
| 12 | | | | | 3140 (1890) | 996 (600) | 33.5 (20.2) | 11.20 (6.75) |
| 13 | | | | | 3290 (2080) | 1040 (661) | 35.2 (22.3) | 11.80 (7.44) |
| 14 | | | | | 3550 (2140) | 1130 (680) | 38.0 (22.9) | 12.70 (7.65) |
| 15 | | | | | 3830 (4030) | 1220 (1280) | 41.0 (43.1) | 13.70 (14.40) |
| 16 | | | | | 3030 (1650) | 963 (523) | 32.5 (17.6) | 10.80 (5.89) |
| 17 | | | | | 2370 (2260) | 752 (719) | 25.4 (24.2) | 8.47 (8.09) |
| 18 | | | | | 2900 (2430) | 920 (773) | 31.0 (26.1) | 10.40 (8.70) |
| 19 | | | | | 3920 (2470) | 1250 (785) | 42.0 (26.5) | 14.00 (8.85) |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | 6970 (20700) | 2210 (6570) | 74.7 (222.0) | 24.90 (74.10) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | | | | | 3880 | 1230 | 41.4 | 13.80 |
| n | 0 | 0 | 0 | 0 | 20 | 20 | 20 | 20 |
| SD | | | | | 1230 | 392 | 13.2 | 4.41 |
| Min | | | | | 2370 | 752 | 25.4 | 8.47 |
| Max | | | | | 6970 | 2210 | 74.7 | 24.90 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for August, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | 2300 (1870) | 729 (595) | 24.8 (20.2) | 8.29 (6.77) |
| 19 | | | | | 2250 (1640) | 713 (519) | 24.2 (17.6) | 8.11 (5.91) |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | 2110 (1800) | 671 (571) | 22.8 (19.4) | 7.44 (6.33) |
| 29 | | | | | 1930 (1800) | 613 (570) | 20.9 (19.4) | 6.80 (6.33) |
| 30 | | | | | 3020 (2350) | 958 (745) | 32.6 (25.3) | 10.60 (8.26) |
| 31 | | | | | 3080 (2080) | 977 (661) | 33.3 (22.5) | 10.80 (7.34) |
| Mean | | | | | 2450 | 777 | 26.4 | 8.69 |
| n | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | | | | | 440 | 140 | 4.8 | 1.53 |
| Min | | | | | 1930 | 613 | 20.9 | 6.80 |
| Max | | | | | 3080 | 977 | 33.3 | 10.80 |

**Table E5. Daily means (SD) of PM10 emissions at Site NC2B for September, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 4790 (3640) | 1520 (1160) | 51.8 (39.3) | 16.90 (12.80) |
| 2 | | | | | 3640 (2120) | 1150 (674) | 39.3 (23.0) | 12.80 (7.49) |
| 3 | | | | | 3340 (2380) | 1060 (754) | 36.2 (25.7) | 11.80 (8.38) |
| 4 | | | | | 3940 (2660) | 1250 (845) | 42.6 (28.8) | 13.90 (9.39) |
| 5 | | | | | 3320 (2340) | 1060 (744) | 36.0 (25.4) | 11.70 (8.27) |
| 6 | | | | | 3490 (2340) | 1110 (742) | 37.7 (25.3) | 12.30 (8.25) |
| 7 | | | | | 2430 (3220) | 771 (1020) | 26.3 (34.8) | 8.57 (11.40) |
| 8 | | | | | 2510 (1730) | 796 (550) | 27.2 (18.7) | 8.85 (6.11) |
| 9 | | | | | 4180 (3180) | 1330 (1010) | 45.2 (34.4) | 14.80 (11.20) |
| 10 | | | | | 3320 (2070) | 1050 (656) | 36.0 (22.4) | 11.70 (7.30) |
| 11 | | | | | 4000 (2830) | 1270 (899) | 43.4 (30.7) | 14.10 (10.00) |
| 12 | | | | | 3730 (2730) | 1180 (867) | 40.4 (29.6) | 13.20 (9.65) |
| 13 | | | | | 3480 (2490) | 1100 (790) | 37.7 (27.0) | 12.30 (8.80) |
| 14 | | | | | 3340 (2970) | 1060 (944) | 36.2 (32.2) | 11.80 (10.50) |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | 1220 (1720) | 388 (547) | 13.3 (18.7) | 4.34 (6.12) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | | | | | 3380 | 1070 | 36.6 | 11.90 |
| n | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 |
| SD | | | | | 812 | 258 | 8.8 | 2.86 |
| Min | | | | | 1220 | 388 | 13.3 | 4.34 |
| Max | | | | | 4790 | 1520 | 51.8 | 16.90 |

## Table E6. Emissions of $PM_{2.5}$.

**Table E6. Daily means (SD) of PM2.5 emissions at Site NC2B for January, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | 32 (129) | 10 (41) | 0.3 (1.4) | 0.10 (0.41) | 28 (104) | 9 (33) | 0.3 (1.1) | 0.10 (0.38) |
| 18 | 82 (67) | 26 (21) | 0.9 (0.7) | 0.26 (0.21) | 74 (81) | 23 (26) | 0.8 (0.9) | 0.27 (0.30) |
| 19 | 50 (83) | 16 (26) | 0.5 (0.9) | 0.16 (0.26) | 72 (62) | 23 (20) | 0.8 (0.7) | 0.26 (0.23) |
| 20 | 91 (66) | 29 (21) | 1.0 (0.7) | 0.29 (0.21) | 78 (62) | 25 (20) | 0.9 (0.7) | 0.28 (0.22) |
| 21 | 49 (66) | 16 (21) | 0.5 (0.7) | 0.15 (0.21) | 34 (88) | 11 (28) | 0.4 (1.0) | 0.12 (0.32) |
| 22 | 92 (76) | 29 (24) | 1.0 (0.8) | 0.29 (0.24) | 80 (93) | 25 (30) | 0.9 (1.0) | 0.29 (0.34) |
| 23 | 1 (97) | 0 (31) | 0.0 (1.0) | 0.00 (0.31) | 76 (83) | 24 (26) | 0.8 (0.9) | 0.28 (0.30) |
| 24 | 28 (40) | 9 (13) | 0.3 (0.4) | 0.09 (0.13) | 77 (63) | 24 (20) | 0.8 (0.7) | 0.28 (0.23) |
| 25 | 3 (59) | 1 (19) | 0.0 (0.6) | 0.01 (0.19) | 86 (70) | 27 (22) | 0.9 (0.8) | 0.31 (0.25) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 39 (52) | 13 (17) | 0.4 (0.5) | 0.12 (0.17) | 57 (68) | 18 (22) | 0.6 (0.7) | 0.21 (0.25) |
| 29 | 55 (84) | 18 (27) | 0.6 (0.9) | 0.17 (0.26) | 57 (81) | 18 (26) | 0.6 (0.9) | 0.21 (0.30) |
| 30 | 25 (158) | 8 (50) | 0.3 (1.7) | 0.08 (0.50) | 73 (155) | 23 (49) | 0.8 (1.7) | 0.27 (0.56) |
| 31 | 85 (85) | 27 (27) | 0.9 (0.9) | 0.27 (0.27) | 79 (91) | 25 (29) | 0.9 (1.0) | 0.29 (0.33) |
| Mean | 49 | 15 | 0.5 | 0.15 | 67 | 21 | 0.7 | 0.24 |
| n | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| SD | 30 | 10 | 0.3 | 0.10 | 17 | 6 | 0.2 | 0.06 |
| Min | 1 | 0 | 0.0 | 0.00 | 28 | 9 | 0.3 | 0.10 |
| Max | 92 | 29 | 1.0 | 0.29 | 86 | 27 | 0.9 | 0.31 |

**Table E6. Daily means (SD) of PM2.5 emissions at Site NC2B for February, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 84 (96) | 27 (30) | 0.9 (1.0) | 0.27 (0.30) | 42 (160) | 13 (51) | 0.5 (1.8) | 0.15 (0.58) |
| 2 | 93 (118) | 30 (38) | 1.0 (1.2) | 0.29 (0.37) | 82 (110) | 26 (35) | 0.9 (1.2) | 0.30 (0.40) |
| 3 | 88 (115) | 28 (37) | 0.9 (1.2) | 0.28 (0.36) | 79 (127) | 25 (40) | 0.9 (1.4) | 0.29 (0.46) |
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| 29 | | | | | | | | |
| Mean | 89 | 28 | 0.9 | 0.28 | 68 | 22 | 0.7 | 0.25 |
| n | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SD | 4 | 1 | 0.0 | 0.01 | 18 | 6 | 0.2 | 0.07 |
| Min | 84 | 27 | 0.9 | 0.27 | 42 | 13 | 0.5 | 0.15 |
| Max | 93 | 30 | 1.0 | 0.29 | 82 | 26 | 0.9 | 0.30 |

**Table E6. Daily means (SD) of PM2.5 emissions at Site NC2B for October, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
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| 24 | | | | | | | | |
| 25 | 39 (1670) | 12 (529) | 0.4 (17.2) | 0.13 (5.74) | -52 (1990) | -17 (633) | -0.5 (20.7) | -0.19 (7.18) |
| 26 | -162 (1580) | -52 (501) | -1.7 (16.3) | -0.56 (5.43) | -217 (1580) | -69 (500) | -2.3 (16.3) | -0.78 (5.68) |
| 27 | 63 (1270) | 20 (405) | 0.7 (13.1) | 0.22 (4.39) | -28 (692) | -9 (220) | -0.3 (7.2) | -0.10 (2.50) |
| 28 | 109 (716) | 35 (227) | 1.1 (7.4) | 0.38 (2.47) | 15 (450) | 5 (143) | 0.2 (4.7) | 0.06 (1.62) |
| 29 | 103 (666) | 33 (211) | 1.1 (6.9) | 0.36 (2.29) | 34 (577) | 11 (183) | 0.4 (6.0) | 0.12 (2.08) |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 30 | 10 | 0.3 | 0.11 | -50 | -16 | -0.5 | -0.18 |
| n | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| SD | 100 | 32 | 1.0 | 0.34 | 89 | 28 | 0.9 | 0.32 |
| Min | -162 | -52 | -1.7 | -0.56 | -217 | -69 | -2.3 | -0.78 |
| Max | 109 | 35 | 1.1 | 0.38 | 34 | 11 | 0.4 | 0.12 |

**Table E6. Daily means (SD) of PM2.5 emissions at Site NC2B for July, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
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| 24 | | | | | | | | |
| 25 | | | | | 415 (267) | 132 (85) | 4.5 (2.9) | 1.49 (0.96) |
| 26 | | | | | 321 (273) | 102 (87) | 3.4 (2.9) | 1.15 (0.98) |
| 27 | | | | | 371 (314) | 118 (100) | 4.0 (3.4) | 1.33 (1.13) |
| 28 | | | | | 345 (273) | 110 (87) | 3.7 (2.9) | 1.24 (0.98) |
| 29 | | | | | 338 (348) | 107 (110) | 3.6 (3.7) | 1.22 (1.25) |
| 30 | | | | | 445 (288) | 141 (91) | 4.8 (3.1) | 1.60 (1.04) |
| 31 | | | | | 410 (307) | 130 (98) | 4.4 (3.3) | 1.47 (1.11) |
| Mean | | | | | 378 | 120 | 4.1 | 1.36 |
| n | 0 | 0 | 0 | 0 | 7 | 7 | 7 | 7 |
| SD | | | | | 43 | 14 | 0.5 | 0.15 |
| Min | | | | | 321 | 102 | 3.4 | 1.15 |
| Max | | | | | 445 | 141 | 4.8 | 1.60 |

**Table E6. Daily means (SD) of PM2.5 emissions at Site NC2B for August, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 319 (234) | 101 (74) | 3.4 (2.5) | 1.15 (0.84) |
| 2 | | | | | 267 (218) | 85 (69) | 2.9 (2.3) | 0.96 (0.78) |
| 3 | | | | | 467 (404) | 148 (128) | 5.0 (4.3) | 1.68 (1.45) |
| 4 | | | | | 471 (358) | 149 (114) | 5.1 (3.9) | 1.69 (1.29) |
| 5 | | | | | 444 (315) | 141 (100) | 4.8 (3.4) | 1.60 (1.13) |
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| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | | | | | 394 | 125 | 4.2 | 1.42 |
| n | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 5 |
| SD | | | | | 84 | 27 | 0.9 | 0.30 |
| Min | | | | | 267 | 85 | 2.9 | 0.96 |
| Max | | | | | 471 | 149 | 5.1 | 1.69 |

## Table E7. Emissions of TSP.

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for March, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
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| 26 | | | | | | | | |
| 27 | 7760 (5620) | 2460 (1780) | 81.2 (58.8) | 24.20 (17.50) | 6300 (6620) | 2000 (2100) | 69.1 (72.6) | 22.80 (24.00) |
| 28 | 3300 (2770) | 1050 (881) | 34.5 (29.0) | 10.30 (8.65) | 4350 (3260) | 1380 (1040) | 47.7 (35.8) | 15.80 (11.80) |
| 29 | 4020 (2370) | 1280 (754) | 42.0 (24.9) | 12.50 (7.41) | 3990 (2250) | 1270 (714) | 43.8 (24.7) | 14.50 (8.14) |
| 30 | 3610 (2320) | 1140 (735) | 37.7 (24.2) | 11.20 (7.22) | 3830 (2390) | 1220 (760) | 42.1 (26.3) | 13.90 (8.67) |
| 31 | 2970 (2230) | 941 (707) | 31.0 (23.3) | 9.24 (6.94) | 3540 (2220) | 1130 (706) | 38.9 (24.4) | 12.80 (8.05) |
| Mean | 4330 | 1370 | 45.3 | 13.50 | 4400 | 1400 | 48.3 | 16.00 |
| n | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| SD | 1750 | 555 | 18.3 | 5.46 | 982 | 312 | 10.8 | 3.56 |
| Min | 2970 | 941 | 31.0 | 9.24 | 3540 | 1130 | 38.9 | 12.80 |
| Max | 7760 | 2460 | 81.2 | 24.20 | 6300 | 2000 | 69.1 | 22.80 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for April, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 1040 (2950) | 330 (936) | 10.9 (30.9) | 3.24 (9.19) | 3150 (3510) | 999 (1110) | 34.6 (38.5) | 11.40 (12.70) |
| 2 | 1290 (2460) | 409 (783) | 13.5 (25.8) | 4.02 (7.69) | 4280 (4730) | 1360 (1500) | 47.0 (52.0) | 15.50 (17.10) |
| 3 | 983 (1070) | 312 (339) | 10.3 (11.2) | 3.07 (3.33) | 3040 (2260) | 965 (719) | 33.4 (24.9) | 11.00 (8.21) |
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| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 1100 | 350 | 11.6 | 3.44 | 3490 | 1110 | 38.3 | 12.60 |
| n | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SD | 133 | 42 | 1.4 | 0.42 | 562 | 178 | 6.2 | 2.04 |
| Min | 983 | 312 | 10.3 | 3.07 | 3040 | 965 | 33.4 | 11.00 |
| Max | 1290 | 409 | 13.5 | 4.02 | 4280 | 1360 | 47.0 | 15.50 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for May, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{-2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{-2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
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| 12 | | | | | | | | |
| 13 | 4740 (3230) | 1510 (1020) | 48.5 (33.0) | 18.40 (12.50) | 6790 (4530) | 2160 (1440) | 75.4 (50.3) | 24.90 (16.60) |
| 14 | 5350 (3790) | 1700 (1200) | 54.7 (38.8) | 20.70 (14.70) | 6290 (4300) | 2000 (1370) | 69.9 (47.8) | 23.10 (15.80) |
| 15 | 5810 (3330) | 1850 (1060) | 59.5 (34.1) | 22.50 (12.90) | | | | |
| 16 | 4740 (3470) | 1500 (1100) | 48.5 (35.5) | 18.40 (13.40) | 3290 (2660) | 1050 (843) | 36.6 (29.5) | 12.10 (9.74) |
| 17 | 3920 (2820) | 1240 (897) | 40.1 (28.9) | 15.20 (10.90) | 3800 (2710) | 1210 (859) | 42.3 (30.1) | 14.00 (9.93) |
| 18 | 5210 (3200) | 1650 (1010) | 53.3 (32.7) | 20.20 (12.40) | 3890 (2880) | 1230 (915) | 43.2 (32.1) | 14.30 (10.60) |
| 19 | 3990 (3010) | 1270 (956) | 40.8 (30.8) | 15.00 (11.30) | 5020 (5040) | 1590 (1600) | 55.8 (56.1) | 18.00 (18.10) |
| 20 | 4180 (3320) | 1330 (1050) | 42.7 (34.0) | 15.10 (12.10) | 4140 (3980) | 1310 (1260) | 46.0 (44.2) | 14.50 (13.90) |
| 21 | 3840 (3540) | 1220 (1120) | 39.3 (36.2) | 13.90 (12.80) | 3750 (4360) | 1190 (1380) | 41.7 (48.5) | 13.10 (15.30) |
| 22 | 3380 (4160) | 1070 (1320) | 34.6 (42.6) | 12.20 (15.10) | 3930 (4480) | 1250 (1420) | 43.7 (49.9) | 13.80 (15.70) |
| 23 | 3690 (3130) | 1170 (994) | 37.8 (32.1) | 13.40 (11.40) | 4800 (4940) | 1520 (1570) | 53.5 (55.1) | 16.80 (17.30) |
| 24 | 3480 (3080) | 1110 (976) | 35.6 (31.5) | 12.60 (11.20) | 4730 (4960) | 1500 (1580) | 52.7 (55.3) | 16.60 (17.40) |
| 25 | 2940 (3500) | 932 (1110) | 30.1 (35.8) | 10.70 (12.70) | | | | |
| 26 | 3180 (5690) | 1010 (1810) | 32.5 (58.2) | 11.50 (20.60) | | | | |
| 27 | 2840 (2120) | 901 (673) | 29.1 (21.7) | 10.30 (7.70) | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 4090 | 1300 | 41.8 | 15.30 | 4580 | 1460 | 51.0 | 16.50 |
| n | 15 | 15 | 15 | 15 | 11 | 11 | 11 | 11 |
| SD | 877 | 278 | 9.0 | 3.72 | 1050 | 333 | 11.6 | 3.92 |
| Min | 2840 | 901 | 29.1 | 10.30 | 3290 | 1050 | 36.6 | 12.10 |
| Max | 5810 | 1850 | 59.5 | 22.50 | 6790 | 2160 | 75.4 | 24.90 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for August, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
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| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | 1890 (1880) | 599 (598) | 19.4 (19.3) | 6.57 (6.56) | 1940 (2000) | 616 (636) | 20.0 (20.7) | 7.22 (7.45) |
| 9 | 2440 (1770) | 776 (560) | 25.1 (18.1) | 8.51 (6.15) | 2570 (2000) | 814 (635) | 26.5 (20.7) | 9.51 (7.41) |
| 10 | 1630 (1400) | 519 (443) | 16.8 (14.3) | 5.70 (4.86) | 2100 (1710) | 668 (541) | 21.7 (17.6) | 7.77 (6.30) |
| 11 | 1920 (2140) | 609 (680) | 19.7 (22.0) | 6.69 (7.47) | 1950 (2350) | 618 (746) | 20.1 (24.3) | 7.20 (8.69) |
| 12 | | | | | | | | |
| 13 | 2640 (2200) | 839 (697) | 27.1 (22.6) | 9.21 (7.65) | 3140 (2930) | 997 (929) | 32.4 (30.2) | 11.50 (10.70) |
| 14 | 3050 (2460) | 969 (781) | 31.4 (25.3) | 10.60 (8.57) | 2540 (2570) | 808 (817) | 26.3 (26.6) | 9.28 (9.39) |
| 15 | 2510 (2480) | 797 (787) | 25.8 (25.5) | 8.74 (8.64) | 2760 (2720) | 875 (864) | 28.5 (28.1) | 10.10 (9.93) |
| 16 | 2920 (3670) | 927 (1160) | 30.0 (37.7) | 10.20 (12.80) | 2790 (2930) | 887 (929) | 28.8 (30.2) | 10.20 (10.70) |
| 17 | 2120 (2370) | 673 (754) | 21.8 (24.4) | 7.39 (8.27) | 2680 (2800) | 851 (888) | 27.7 (28.9) | 9.78 (10.20) |
| 18 | 2600 (2590) | 825 (822) | 26.7 (26.6) | 9.06 (9.03) | 2950 (2830) | 935 (900) | 30.4 (29.3) | 10.60 (10.20) |
| 19 | 2320 (3300) | 737 (1050) | 23.9 (33.9) | 8.09 (11.50) | 3350 (3970) | 1060 (1260) | 34.6 (41.0) | 12.00 (14.20) |
| 20 | 2060 (2430) | 654 (773) | 21.2 (25.0) | 7.18 (8.48) | 3040 (3110) | 967 (988) | 31.5 (32.2) | 10.90 (11.10) |
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| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 2340 | 744 | 24.1 | 8.16 | 2650 | 842 | 27.4 | 9.66 |
| n | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| SD | 413 | 131 | 4.3 | 1.44 | 440 | 140 | 4.6 | 1.50 |
| Min | 1630 | 519 | 16.8 | 5.70 | 1940 | 616 | 20.0 | 7.20 |
| Max | 3050 | 969 | 31.4 | 10.60 | 3350 | 1060 | 34.6 | 12.00 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for October, 2008.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 5180 (4090) | 1640 (1300) | 53.3 (42.1) | 17.70 (13.90) | 4440 (3330) | 1410 (1060) | 46.0 (34.5) | 15.70 (11.70) |
| 19 | 5020 (3800) | 1600 (1210) | 51.8 (39.2) | 17.10 (13.00) | 4400 (3150) | 1400 (1000) | 45.6 (32.6) | 15.50 (11.10) |
| 20 | 5210 (3880) | 1650 (1230) | 53.7 (40.0) | 17.80 (13.20) | 4680 (3710) | 1490 (1180) | 48.5 (38.4) | 16.50 (13.10) |
| 21 | 5810 (4970) | 1840 (1580) | 59.9 (51.3) | 19.80 (17.00) | 5330 (4310) | 1690 (1370) | 55.2 (44.6) | 18.80 (15.20) |
| 22 | 5100 (5460) | 1620 (1730) | 52.6 (56.3) | 17.50 (18.70) | 4110 (3230) | 1300 (1030) | 42.6 (33.5) | 14.60 (11.50) |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 5260 | 1670 | 54.3 | 18.00 | 4590 | 1460 | 47.6 | 16.20 |
| n | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| SD | 281 | 89 | 2.9 | 0.95 | 410 | 130 | 4.3 | 1.41 |
| Min | 5020 | 1600 | 51.8 | 17.10 | 4110 | 1300 | 42.6 | 14.60 |
| Max | 5810 | 1840 | 59.9 | 19.80 | 5330 | 1690 | 55.2 | 18.80 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for January, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 3450 (2460) | 1100 (781) | 35.8 (25.5) | 12.20 (8.68) | 4660 (3210) | 1480 (1020) | 48.5 (33.4) | 16.90 (11.60) |
| 12 | 2330 (2320) | 739 (735) | 24.1 (24.0) | 8.21 (8.17) | 4500 (3610) | 1430 (1150) | 46.8 (37.5) | 16.30 (13.10) |
| 13 | 1490 (1440) | 472 (457) | 15.4 (14.9) | 5.24 (5.09) | 2900 (1930) | 921 (611) | 30.2 (20.0) | 10.50 (6.97) |
| 14 | 1230 (1280) | 389 (405) | 12.7 (13.2) | 4.33 (4.51) | 2290 (1850) | 728 (586) | 23.9 (19.2) | 8.30 (6.68) |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 2120 | 674 | 22.0 | 7.49 | 3590 | 1140 | 37.3 | 13.00 |
| n | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| SD | 867 | 275 | 9.0 | 3.06 | 1020 | 322 | 10.6 | 3.67 |
| Min | 1230 | 389 | 12.7 | 4.33 | 2290 | 728 | 23.9 | 8.30 |
| Max | 3450 | 1100 | 35.8 | 12.20 | 4660 | 1480 | 48.5 | 16.90 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for February, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | 4960 (4070) | 1570 (1290) | 51.9 (42.5) | 18.40 (15.10) |
| Mean | | | | | | | | |
| n | 0 | 0 | 0.0 | 0.00 | 1 | 1 | 1.0 | 1.00 |
| SD | | | | | | | | |
| Min | | | | | | | | |
| Max | | | | | | | | |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for March, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 3390 (3050) | 1080 (969) | 35.5 (31.9) | 12.60 (11.30) |
| 2 | | | | | | | | |
| 3 | | | | | 1900 (1330) | 603 (424) | 19.9 (14.0) | 7.04 (4.95) |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | | | | | 2650 | 840 | 27.7 | 9.80 |
| n | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| SD | | | | | 747 | 237 | 7.8 | 2.77 |
| Min | | | | | 1900 | 603 | 19.9 | 7.04 |
| Max | | | | | 3390 | 1080 | 35.5 | 12.60 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for April, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | 8000 (5420) | 2540 (1720) | 84.0 (56.9) | 29.70 (20.10) |
| 4 | | | | | 7590 (5550) | 2410 (1760) | 79.6 (58.3) | 28.10 (20.60) |
| 5 | | | | | 7470 (7320) | 2370 (2320) | 78.4 (76.8) | 27.70 (27.10) |
| 6 | | | | | 6640 (4430) | 2110 (1410) | 69.7 (46.5) | 24.60 (16.40) |
| 7 | | | | | 5180 (3580) | 1650 (1140) | 54.4 (37.6) | 19.20 (13.30) |
| 8 | | | | | 6060 (5280) | 1920 (1670) | 63.7 (55.4) | 22.50 (19.60) |
| 9 | | | | | 6090 (6170) | 1930 (1960) | 63.9 (64.8) | 22.60 (22.90) |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | | | | | 6720 | 2130 | 70.5 | 24.90 |
| n | 0 | 0 | 0 | 0 | 7 | 7 | 7 | 7 |
| SD | | | | | 938 | 298 | 9.8 | 3.47 |
| Min | | | | | 5180 | 1650 | 54.4 | 19.20 |
| Max | | | | | 8000 | 2540 | 84.0 | 29.70 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for June, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | 6650 (3800) | 2110 (1210) | 70.6 (40.3) | 24.70 (14.10) |
| 6 | | | | | 6800 (4460) | 2160 (1420) | 72.2 (47.4) | 25.30 (16.60) |
| 7 | | | | | 5770 (3610) | 1830 (1150) | 61.2 (38.3) | 21.40 (13.40) |
| 8 | | | | | 4560 (3270) | 1450 (1040) | 48.5 (34.7) | 17.00 (12.20) |
| 9 | | | | | 3670 (4580) | 1170 (1450) | 39.0 (48.6) | 13.60 (17.00) |
| 10 | | | | | 6210 (4890) | 1970 (1550) | 66.0 (52.0) | 23.10 (18.20) |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | | | | | 5610 | 1780 | 59.6 | 20.90 |
| n | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | | | | | 1140 | 361 | 12.1 | 4.22 |
| Min | | | | | 3670 | 1170 | 39.0 | 13.60 |
| Max | | | | | 6800 | 2160 | 72.2 | 25.30 |

**Table E7. Daily means (SD) of TSP emissions at Site NC2B for August, 2009.**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | 4390 (4920) | 1390 (1560) | 47.4 (53.0) | 15.90 (17.80) |
| 22 | | | | | 3840 (4350) | 1220 (1380) | 41.4 (47.0) | 13.70 (15.50) |
| 23 | | | | | 4740 (3950) | 1500 (1250) | 51.1 (42.6) | 16.70 (13.90) |
| 24 | | | | | 5610 (4670) | 1780 (1480) | 60.5 (50.4) | 19.70 (16.40) |
| 25 | | | | | 5620 (4490) | 1790 (1430) | 60.7 (48.5) | 19.80 (15.80) |
| 26 | | | | | 4700 (3630) | 1490 (1150) | 50.8 (39.2) | 16.60 (12.80) |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | | | | | 4820 | 1530 | 52.0 | 17.10 |
| n | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | | | | | 636 | 202 | 6.9 | 2.15 |
| Min | | | | | 3840 | 1220 | 41.4 | 13.70 |
| Max | | | | | 5620 | 1790 | 60.7 | 19.80 |

## Table E8. NH3 concentrations.

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for September, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | 2.0 (0.3) | 1.5 (0.2) | 9.6 (3.7) | 6.9 (2.6) | 8.6 (2.3) | 6.2 (1.7) |
| 26 | 2.1 (0.3) | 1.5 (0.2) | 7.4 (2.2) | 5.3 (1.6) | 7.2 (1.2) | 5.2 (0.9) |
| 27 | 2.2 (0.3) | 1.6 (0.2) | 5.8 (0.3) | 4.1 (0.3) | 6.2 (0.5) | 4.5 (0.3) |
| 28 | 1.7 (0.2) | 1.2 (0.1) | 4.7 (1.3) | 3.4 (1.0) | 5.0 (1.3) | 3.6 (0.9) |
| 29 | 1.7 (0.1) | 1.2 (0.1) | 7.4 (3.2) | 5.3 (2.3) | 7.5 (3.3) | 5.4 (2.4) |
| 30 | 1.8 (0.2) | 1.3 (0.1) | 8.1 (4.0) | 5.8 (2.8) | 7.7 (3.4) | 5.5 (2.4) |
| Mean | 1.9 | 1.4 | 7.2 | 5.1 | 7.0 | 5 |
| n | 6 | 6 | 6 | 6 | 6 | 6 |
| SD | 0.2 | 0.1 | 1.6 | 1.1 | 1.2 | 0.8 |
| Min | 1.7 | 1.2 | 4.7 | 3.4 | 5.0 | 3.6 |
| Max | 2.2 | 1.6 | 9.6 | 6.9 | 8.6 | 6.2 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for October, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.8 (0.1) | 1.3 (0.1) | 7.1 (3.2) | 5.1 (2.3) | 7.1 (3.0) | 5.1 (2.1) |
| 2 | 1.9 (0.2) | 1.3 (0.1) | 5.5 (1.2) | 3.9 (0.9) | 5.4 (0.6) | 3.9 (0.4) |
| 3 | 2.0 (0.4) | 1.4 (0.3) | 5.7 (1.0) | 4.1 (0.7) | 6.1 (0.5) | 4.4 (0.4) |
| 4 | 2.2 (0.3) | 1.6 (0.2) | 5.2 (0.4) | 3.8 (0.3) | 6.1 (0.4) | 4.4 (0.3) |
| 5 | 1.9 (0.1) | 1.4 (0.1) | 5.1 (0.4) | 3.7 (0.3) | 5.6 (0.2) | 4.1 (0.2) |
| 6 | 2.1 (0.2) | 1.5 (0.2) | 6.1 (0.6) | 4.4 (0.4) | 6.6 (0.6) | 4.8 (0.4) |
| 7 | 1.9 (0.1) | 1.3 (0.1) | 6.9 (1.0) | 5.0 (0.7) | 7.3 (0.6) | 5.3 (0.5) |
| 8 | 1.9 (0.2) | 1.3 (0.1) | 6.6 (0.8) | 4.8 (0.6) | 7.3 (0.7) | 5.3 (0.5) |
| 9 | 2.1 (0.2) | 1.5 (0.1) | 6.3 (0.5) | 4.5 (0.4) | 6.6 (0.3) | 4.8 (0.2) |
| 10 | 1.8 (0.1) | 1.3 (0.1) | 4.6 (0.5) | 3.3 (0.3) | 4.9 (0.5) | 3.5 (0.4) |
| 11 | 1.6 (0.1) | 1.1 (0.1) | 8.0 (4.0) | 5.6 (3.1) | 7.2 (3.3) | 5.0 (2.5) |
| 12 | 1.7 (0.1) | 1.2 (0.1) | 12.3 (6.4) | 8.8 (4.6) | 10.9 (5.3) | 7.8 (3.8) |
| 13 | 1.7 (0.1) | 1.2 (0.1) | 12.8 (5.7) | 9.1 (4.1) | 11.3 (5.1) | 8.1 (3.7) |
| 14 | 1.8 (0.1) | 1.3 (0.1) | 13.2 (6.7) | 9.5 (4.8) | 11.9 (5.6) | 8.5 (4.0) |
| 15 | 1.9 (0.2) | 1.4 (0.2) | 12.6 (6.2) | 9.0 (4.5) | 11.5 (5.4) | 8.3 (3.9) |
| 16 | 1.8 (0.1) | | | | | |
| 17 | 2.0 (0.2) | | | | | |
| 18 | 2.1 (0.2) | 1.5 (0.1) | 8.2 (2.0) | 5.9 (1.5) | 8.1 (1.8) | 5.8 (1.3) |
| 19 | 2.1 (0.3) | 1.5 (0.2) | 7.1 (0.3) | 5.1 (0.3) | 7.0 (0.3) | 5.0 (0.2) |
| 20 | 1.8 (0.1) | 1.3 (0.1) | 8.8 (4.7) | 6.3 (3.4) | 7.7 (3.6) | 5.5 (2.6) |
| 21 | 2.1 (0.2) | 1.5 (0.2) | 15.5 (8.5) | 11.1 (6.1) | 13.5 (6.8) | 9.7 (4.8) |
| 22 | 2.2 (0.2) | 1.6 (0.1) | 11.5 (6.1) | 8.3 (4.4) | 10.0 (4.4) | 7.2 (3.2) |
| 23 | 2.2 (0.2) | 1.5 (0.1) | 8.2 (1.7) | 5.9 (1.2) | 7.7 (1.4) | 5.5 (1.0) |
| 24 | 2.1 (0.1) | 1.5 (0.1) | 6.1 (0.7) | 4.4 (0.5) | 6.1 (0.5) | 4.4 (0.3) |
| 25 | 2.0 (0.1) | 1.4 (0.1) | 9.9 (2.7) | 7.1 (2.0) | 8.5 (2.4) | 6.1 (1.7) |
| 26 | 2.3 (0.2) | 1.7 (0.1) | 10.4 (3.0) | 7.5 (2.1) | 10.1 (1.2) | 7.2 (0.9) |
| 27 | 1.9 (0.2) | 1.4 (0.1) | 10.0 (3.2) | 7.2 (2.3) | 9.5 (3.4) | 6.9 (2.4) |
| 28 | 2.2 (0.1) | 1.5 (0.1) | 22.8 (7.0) | 16.3 (5.0) | 22.9 (8.2) | 16.4 (5.9) |
| 29 | 2.2 (0.2) | 1.5 (0.1) | 29.2 (9.5) | 20.9 (6.8) | 30.4 (10.4) | 21.7 (7.5) |
| 30 | 2.0 (0.1) | 1.4 (0.1) | 29.3 (11.9) | 21.0 (8.5) | 29.5 (11.6) | 21.1 (8.3) |
| 31 | 2.2 (0.2) | 1.5 (0.2) | 24.7 (12.3) | 17.7 (8.8) | 25.2 (13.8) | 18.0 (9.9) |
| Mean | 2 | 1.4 | 11 | 7.9 | 10.8 | 7.7 |
| n | 31 | 29 | 29 | 29 | 29 | 29 |
| SD | 0.2 | 0.1 | 6.9 | 4.9 | 6.9 | 4.9 |
| Min | 1.6 | 1.1 | 4.6 | 3.3 | 4.9 | 3.5 |
| Max | 2.3 | 1.7 | 29.3 | 21.0 | 30.4 | 21.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for November, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 2.1 (0.1) | 1.5 (0.1) | 18.7 (8.3) | 13.4 (5.9) | 20.7 (10.3) | 14.8 (7.4) |
| 2 | 2.1 (0.1) | 1.5 (0.1) | 24.5 (7.2) | 17.5 (5.2) | 20.1 (5.6) | 14.4 (4.0) |
| 3 | 2.1 (0.2) | 1.5 (0.1) | 33.4 (10.5) | 23.9 (7.5) | 31.5 (10.6) | 22.5 (7.6) |
| 4 | 2.4 (0.3) | 1.7 (0.2) | 37.8 (13.5) | 27.0 (9.6) | 37.9 (13.5) | 27.1 (9.7) |
| 5 | 2.3 (0.2) | 1.6 (0.2) | 37.2 (13.4) | 26.6 (9.6) | 39.4 (15.8) | 28.2 (11.3) |
| 6 | 2.2 (0.2) | 1.5 (0.2) | 36.7 (11.1) | 26.3 (8.0) | 36.9 (11.9) | 26.4 (8.6) |
| 7 | 2.1 (0.1) | 1.5 (0.1) | 49.5 (10.8) | 35.4 (7.8) | 49.1 (13.8) | 35.1 (9.9) |
| 8 | 2.3 (0.1) | 1.6 (0.1) | 54.7 (7.6) | 39.2 (5.5) | 48.1 (15.5) | 34.4 (11.1) |
| 9 | 2.4 (0.2) | 1.7 (0.2) | 51.7 (9.7) | 37.0 (6.9) | 51.6 (11.6) | 37.0 (8.4) |
| 10 | 2.5 (0.1) | 1.8 (0.1) | 55.6 (7.3) | 39.8 (5.2) | 60.4 (12.1) | 43.3 (8.7) |
| 11 | 2.3 (0.1) | 1.7 (0.1) | 56.8 (13.2) | 40.6 (9.4) | 61.2 (13.0) | 43.8 (9.3) |
| 12 | 2.5 (0.2) | 1.8 (0.1) | 50.9 (15.7) | 36.5 (11.2) | 55.4 (19.9) | 39.6 (14.3) |
| 13 | 2.7 (0.3) | 1.9 (0.2) | 36.5 (16.2) | 26.2 (11.6) | 45.3 (21.2) | 32.6 (15.2) |
| 14 | 2.6 (0.2) | | | | | |
| 15 | 2.3 (0.2) | 1.6 (0.1) | 35.9 (12.1) | 25.8 (8.8) | 38.5 (14.4) | 27.7 (10.4) |
| 16 | 2.2 (0.1) | 1.6 (0.1) | 52.4 (11.1) | 37.5 (8.0) | 58.8 (14.1) | 42.1 (10.1) |
| 17 | 2.3 (0.2) | 1.6 (0.1) | 48.8 (12.5) | 34.9 (8.9) | 57.1 (15.6) | 40.9 (11.2) |
| 18 | 2.4 (0.2) | 1.7 (0.2) | 44.4 (14.0) | 31.8 (10.0) | 51.9 (19.4) | 37.2 (13.9) |
| 19 | 2.6 (0.2) | 1.8 (0.2) | 54.8 (7.5) | 39.3 (5.4) | 53.2 (12.1) | 38.2 (8.7) |
| 20 | 2.8 (0.4) | 2.0 (0.3) | 45.2 (11.1) | 32.4 (8.0) | 53.3 (14.3) | 38.2 (10.2) |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | 1.1 (0.3) | 0.7 (0.2) | 35.6 (12.3) | 25.6 (8.8) | 32.2 (11.8) | 23.1 (8.5) |
| 28 | 1.1 (0.1) | 0.8 (0.1) | 54.3 (11.8) | 39.2 (8.3) | 50.1 (12.5) | 36.1 (8.9) |
| 29 | 1.8 (0.3) | | | | | |
| 30 | 1.0 (0.2) | 0.7 (0.1) | 52.4 (10.2) | 37.5 (7.3) | 54.5 (14.7) | 39.0 (10.6) |
| Mean | 2.2 | 1.5 | 44 | 31.5 | 45.8 | 32.8 |
| n | 24 | 22 | 22 | 22 | 22 | 22 |
| SD | 0.5 | 0.3 | 10.5 | 7.5 | 11.8 | 8.4 |
| Min | 1.0 | 0.7 | 18.7 | 13.4 | 20.1 | 14.4 |
| Max | 2.8 | 2.0 | 56.8 | 40.6 | 61.2 | 43.8 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for December, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.9 (0.1) | 0.7 (0.1) | 50.5 (8.9) | 36.2 (6.4) | 52.6 (13.6) | 37.6 (9.8) |
| 2 | 1.1 (0.1) | 0.8 (0.1) | 47.9 (9.8) | 34.3 (7.0) | 54.6 (12.8) | 39.1 (9.2) |
| 3 | 1.1 (0.4) | 0.8 (0.3) | 43.1 (10.5) | 30.9 (7.5) | 43.8 (12.5) | 31.4 (9.0) |
| 4 | 1.1 (0.2) | 0.8 (0.2) | 52.1 (8.1) | 37.3 (5.8) | 53.8 (11.2) | 38.6 (8.0) |
| 5 | 1.1 (0.2) | 0.8 (0.1) | 52.1 (6.3) | 37.3 (4.5) | 54.0 (9.3) | 38.6 (6.7) |
| 6 | 1.0 (0.1) | | 54.0 (6.2) | 38.7 (4.5) | 57.3 (9.0) | 41.0 (6.4) |
| 7 | 1.1 (0.2) | | 52.8 (7.7) | 37.8 (5.5) | 55.6 (9.1) | 39.8 (6.5) |
| 8 | 1.3 (0.2) | 0.9 (0.1) | 42.8 (17.1) | 30.7 (12.3) | 45.7 (19.7) | 32.8 (14.2) |
| 9 | 1.3 (0.1) | | | | | |
| 10 | 1.7 (0.1) | | | | | |
| 11 | 1.5 (0.5) | 1.1 (0.3) | 32.9 (6.9) | 23.6 (5.0) | 32.4 (8.1) | 23.3 (5.8) |
| 12 | 1.4 (0.2) | 1.0 (0.1) | 25.6 (14.0) | 18.4 (10.0) | 24.7 (12.9) | 17.8 (9.3) |
| 13 | 1.1 (0.1) | 0.7 (0.1) | 25.8 (8.2) | 18.5 (5.9) | 24.8 (7.8) | 17.8 (5.6) |
| 14 | 0.9 (0.2) | 0.7 (0.1) | 29.1 (8.6) | 20.9 (6.2) | 29.2 (9.7) | 20.9 (7.0) |
| 15 | 1.1 (0.1) | 0.7 (0.1) | 45.4 (4.5) | 32.6 (3.3) | 43.7 (5.9) | 31.3 (4.2) |
| 16 | 1.1 (0.1) | 0.7 (0.1) | 53.1 (7.6) | 38.1 (5.5) | 53.2 (8.9) | 38.1 (6.4) |
| 17 | 1.0 (0.1) | 0.7 (0.1) | 58.9 (9.0) | 42.2 (6.4) | 53.0 (6.5) | 37.9 (4.7) |
| 18 | 1.0 (0.1) | 0.7 (0.1) | 56.8 (8.4) | 40.7 (6.0) | 50.7 (8.8) | 36.3 (6.3) |
| 19 | 1.1 (0.1) | 0.8 (0.1) | 63.2 (9.0) | 45.3 (6.5) | 65.1 (11.5) | 46.6 (8.3) |
| 20 | 1.2 (0.2) | 0.9 (0.2) | 66.7 (11.8) | 47.8 (8.5) | 65.3 (18.6) | 46.8 (13.3) |
| 21 | 1.4 (0.1) | 1.0 (0.1) | 73.0 (9.1) | 52.4 (6.5) | 67.1 (14.5) | 48.1 (10.4) |
| 22 | 1.5 (0.2) | 1.1 (0.1) | 61.9 (11.3) | 44.4 (8.1) | 61.4 (14.4) | 44.1 (10.3) |
| 23 | 1.4 (0.1) | 1.0 (0.1) | 45.8 (18.9) | 32.9 (13.5) | 48.0 (21.8) | 34.5 (15.6) |
| 24 | 1.1 (0.2) | 0.8 (0.1) | 39.6 (4.3) | 28.3 (3.1) | 47.0 (6.9) | 33.6 (4.9) |
| 25 | 1.0 (0.2) | 0.7 (0.1) | 34.9 (2.9) | 24.9 (2.1) | 42.2 (3.3) | 30.2 (2.4) |
| 26 | 1.0 (0.1) | 0.7 (0.1) | 36.4 (1.9) | 26.1 (1.4) | 43.6 (5.9) | 31.2 (4.2) |
| 27 | 1.3 (0.4) | 0.9 (0.3) | 37.2 (1.7) | 26.7 (1.3) | 42.9 (3.7) | 30.7 (2.6) |
| 28 | 1.3 (0.2) | 0.9 (0.1) | 37.0 (3.9) | 26.5 (2.8) | 42.7 (5.5) | 30.6 (4.0) |
| 29 | 1.5 (0.3) | 1.0 (0.2) | 27.2 (9.9) | 19.5 (7.1) | 26.5 (9.4) | 19.0 (6.8) |
| 30 | 1.3 (0.1) | 0.9 (0.1) | 43.6 (4.9) | 31.3 (3.5) | 44.4 (5.0) | 31.9 (3.6) |
| 31 | 1.0 (0.2) | | | | | |
| Mean | 1.2 | 0.8 | 46.1 | 33 | 47.3 | 33.9 |
| n | 31 | 26 | 28 | 28 | 28 | 28 |
| SD | 0.2 | 0.1 | 12.4 | 8.9 | 11.6 | 8.3 |
| Min | 0.9 | 0.7 | 25.6 | 18.4 | 24.7 | 17.8 |
| Max | 1.7 | 1.1 | 73.0 | 52.4 | 67.1 | 48.1 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for January, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.0 (0.0) | | | | | |
| 2 | 0.8 (0.2) | | | | | |
| 3 | 0.7 (0.1) | | | | | |
| 4 | 0.7 (0.1) | 0.5 (0.1) | 37.3 (7.5) | 26.7 (5.4) | 28.2 (8.4) | 20.2 (6.1) |
| 5 | 1.1 (0.2) | 0.8 (0.1) | 52.1 (7.9) | 37.3 (5.7) | 51.3 (10.0) | 36.8 (7.2) |
| 6 | 1.5 (0.2) | 1.1 (0.1) | 46.9 (13.7) | 33.6 (9.8) | 52.8 (18.4) | 37.8 (13.2) |
| 7 | 2.0 (0.4) | 1.4 (0.3) | 44.3 (19.7) | 31.7 (14.1) | 46.0 (19.2) | 33.0 (13.8) |
| 8 | 1.5 (0.2) | 1.1 (0.1) | 32.5 (13.7) | 23.3 (9.9) | 35.3 (12.3) | 25.4 (8.8) |
| 9 | 1.3 (0.3) | 0.9 (0.2) | 29.6 (10.9) | 22.0 (7.7) | 29.4 (10.3) | 21.6 (7.4) |
| 10 | 1.3 (0.2) | 0.9 (0.1) | 38.7 (6.0) | 27.8 (4.3) | 39.9 (7.7) | 28.6 (5.6) |
| 11 | 1.3 (0.2) | 0.9 (0.1) | 24.3 (8.6) | 17.5 (6.2) | 22.9 (8.3) | 16.4 (6.0) |
| 12 | 1.1 (0.1) | 0.8 (0.1) | 38.4 (5.5) | 27.5 (4.0) | 37.2 (8.2) | 26.6 (5.9) |
| 13 | 1.2 (0.1) | 0.9 (0.1) | 42.7 (4.8) | 30.6 (3.5) | 43.8 (7.5) | 31.4 (5.4) |
| 14 | 1.0 (0.1) | 0.7 (0.1) | 45.2 (8.1) | 32.4 (5.8) | 46.0 (9.2) | 32.9 (6.6) |
| 15 | 0.9 (0.1) | 0.6 (0.1) | 45.3 (7.5) | 32.4 (5.4) | 46.9 (5.9) | 33.6 (4.2) |
| 16 | 0.9 (0.1) | 0.7 (0.1) | 47.0 (7.7) | 33.6 (5.5) | 42.9 (8.9) | 30.7 (6.4) |
| 17 | 1.0 (0.1) | 0.7 (0.1) | 51.7 (10.1) | 37.0 (7.2) | 47.0 (8.8) | 33.7 (6.3) |
| 18 | 1.4 (0.2) | 1.0 (0.1) | 54.6 (8.8) | 39.1 (6.3) | 51.5 (8.4) | 36.9 (6.0) |
| 19 | 1.1 (0.2) | 0.8 (0.1) | 53.2 (8.7) | 38.2 (6.3) | 52.5 (7.2) | 37.6 (5.1) |
| 20 | 0.8 (0.1) | 0.6 (0.1) | 40.4 (4.3) | 28.9 (3.1) | 39.5 (7.8) | 28.3 (5.6) |
| 21 | 0.8 (0.1) | 0.6 (0.1) | 43.6 (3.3) | 31.1 (2.4) | 43.1 (5.0) | 30.8 (3.6) |
| 22 | 1.0 (0.1) | 0.7 (0.1) | 47.9 (5.2) | 34.3 (3.7) | 45.9 (7.1) | 32.8 (5.1) |
| 23 | 1.2 (0.2) | 0.9 (0.1) | 50.8 (8.9) | 36.4 (6.4) | 52.1 (8.0) | 37.4 (5.8) |
| 24 | 1.1 (0.2) | 0.8 (0.2) | 48.7 (8.0) | 34.9 (5.7) | 52.3 (7.5) | 37.5 (5.4) |
| 25 | 0.9 (0.1) | 0.6 (0.1) | 54.4 (9.3) | 38.9 (6.7) | 59.4 (11.9) | 42.5 (8.6) |
| 26 | 1.1 (0.1) | | | | | |
| 27 | 1.4 (0.2) | | | | | |
| 28 | 1.3 (0.3) | 0.9 (0.2) | 58.3 (11.6) | 41.8 (8.3) | 57.9 (11.2) | 41.6 (8.0) |
| 29 | 1.2 (0.2) | 0.9 (0.1) | 50.2 (13.6) | 36.0 (9.8) | 49.7 (15.6) | 35.6 (11.2) |
| 30 | 1.0 (0.2) | 0.7 (0.2) | 48.0 (8.9) | 34.4 (6.4) | 48.0 (13.6) | 34.4 (9.7) |
| 31 | 1.0 (0.2) | 0.7 (0.1) | 53.8 (8.8) | 38.5 (6.3) | 52.8 (13.3) | 37.8 (9.5) |
| Mean | 1.1 | 0.8 | 45.4 | 32.5 | 45.2 | 32.4 |
| n | 31 | 26 | 26 | 26 | 26 | 26 |
| SD | 0.3 | 0.2 | 8.1 | 5.7 | 8.8 | 6.3 |
| Min | 0.7 | 0.5 | 24.3 | 17.5 | 22.9 | 16.4 |
| Max | 2.0 | 1.4 | 58.3 | 41.8 | 59.4 | 42.5 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for February, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.3 (0.2) | 0.9 (0.1) | 48.0 (10.5) | 34.4 (7.5) | 48.0 (12.1) | 34.4 (8.7) |
| 2 | 1.2 (0.2) | 0.8 (0.1) | 51.2 (12.7) | 36.7 (9.2) | 53.9 (15.9) | 38.7 (11.4) |
| 3 | 1.9 (0.4) | 1.4 (0.3) | 47.9 (15.4) | 34.3 (11.1) | 49.1 (18.6) | 35.2 (13.4) |
| 4 | 1.3 (0.3) | 1.0 (0.2) | 39.9 (13.2) | 28.6 (9.5) | 39.8 (17.8) | 28.5 (12.7) |
| 5 | 1.3 (0.1) | 0.9 (0.1) | 28.9 (13.7) | 20.7 (9.9) | 24.8 (11.6) | 17.8 (8.3) |
| 6 | 1.0 (0.2) | 0.7 (0.2) | 20.1 (6.6) | 14.4 (4.8) | 14.1 (4.9) | 10.1 (3.5) |
| 7 | 0.8 (0.2) | 0.6 (0.1) | 25.1 (7.8) | 18.0 (5.6) | 22.4 (9.7) | 16.1 (7.0) |
| 8 | 1.4 (0.3) | 1.0 (0.2) | 40.6 (8.0) | 29.1 (5.8) | 37.2 (9.5) | 26.6 (6.8) |
| 9 | 1.3 (0.3) | 0.9 (0.2) | 38.1 (14.1) | 27.3 (10.1) | 37.7 (14.4) | 27.0 (10.3) |
| 10 | 1.0 (0.2) | 0.7 (0.1) | 37.3 (11.1) | 26.7 (7.9) | 33.0 (11.4) | 23.6 (8.2) |
| 11 | 1.2 (0.1) | 0.8 (0.1) | 38.5 (9.4) | 27.5 (6.8) | 35.4 (8.8) | 25.3 (6.3) |
| 12 | 1.5 (0.2) | 1.1 (0.1) | 41.1 (9.0) | 29.4 (6.4) | 36.7 (9.1) | 26.2 (6.5) |
| 13 | 1.7 (0.2) | 1.2 (0.1) | 35.2 (11.3) | 25.3 (8.1) | 31.4 (11.5) | 22.6 (8.3) |
| 14 | 1.5 (0.2) | 1.0 (0.1) | 49.5 (10.6) | 35.5 (7.6) | 46.2 (11.6) | 33.1 (8.4) |
| 15 | 1.7 (0.2) | 1.2 (0.1) | 49.1 (16.5) | 35.1 (11.8) | 44.8 (14.5) | 32.1 (10.4) |
| 16 | 1.5 (0.1) | 1.1 (0.1) | 45.1 (9.2) | 32.3 (6.6) | 42.6 (11.6) | 30.5 (8.3) |
| 17 | 1.9 (0.2) | | | | | |
| 18 | 1.6 (0.2) | 1.2 (0.1) | 23.1 (8.4) | 16.6 (6.0) | 20.9 (7.3) | 15.0 (5.3) |
| 19 | 1.4 (0.2) | 1.0 (0.1) | 38.3 (7.7) | 27.4 (5.5) | 38.1 (7.4) | 27.2 (5.3) |
| 20 | 1.6 (0.2) | 1.2 (0.2) | 36.0 (11.5) | 25.7 (8.3) | 38.2 (12.5) | 27.3 (8.9) |
| 21 | 1.4 (0.2) | 1.0 (0.1) | 42.5 (8.1) | 30.4 (5.8) | 43.0 (5.4) | 30.8 (3.8) |
| 22 | 1.5 (0.2) | 1.1 (0.1) | 51.1 (10.2) | 36.6 (7.4) | 47.2 (6.9) | 33.9 (4.9) |
| 23 | 1.8 (0.2) | 1.3 (0.1) | 59.0 (12.2) | 42.3 (8.7) | 50.4 (9.2) | 36.2 (6.6) |
| 24 | 1.7 (0.2) | 1.2 (0.1) | 63.2 (10.0) | 45.3 (7.2) | 58.1 (13.1) | 41.7 (9.4) |
| 25 | 1.7 (0.2) | 1.2 (0.1) | 52.0 (15.4) | 37.3 (11.1) | 50.7 (16.6) | 36.4 (12.0) |
| 26 | 1.9 (0.2) | 1.4 (0.1) | 46.1 (16.3) | 33.1 (11.7) | 44.9 (16.4) | 32.3 (11.8) |
| 27 | 1.8 (0.3) | 1.3 (0.2) | 49.5 (9.6) | 35.5 (6.9) | 47.3 (11.1) | 33.9 (8.0) |
| 28 | 1.5 (0.2) | 1.0 (0.1) | 45.5 (10.8) | 32.6 (7.7) | 43.9 (10.6) | 31.4 (7.6) |
| 29 | 1.5 (0.2) | 1.1 (0.1) | 44.9 (7.9) | 32.2 (5.7) | 42.5 (7.8) | 30.4 (5.6) |
| Mean | 1.5 | 1 | 42.4 | 30.4 | 40.1 | 28.7 |
| n | 29 | 28 | 28 | 28 | 28 | 28 |
| SD | 0.3 | 0.2 | 9.9 | 7.1 | 10.1 | 7.3 |
| Min | 0.8 | 0.6 | 20.1 | 14.4 | 14.1 | 10.1 |
| Max | 1.9 | 1.4 | 63.2 | 45.3 | 58.1 | 41.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for March, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.5 (0.2) | 1.1 (0.1) | 38.1 (10.8) | 27.3 (7.7) | 38.1 (14.6) | 27.3 (10.5) |
| 2 | 1.7 (0.2) | 1.2 (0.1) | 39.8 (10.3) | 28.5 (7.4) | 38.3 (10.3) | 27.4 (7.4) |
| 3 | 1.6 (0.2) | 1.1 (0.1) | 31.1 (16.4) | 22.3 (11.7) | 29.8 (16.4) | 21.4 (11.7) |
| 4 | 1.8 (0.2) | | | | | |
| 5 | 1.5 (0.2) | 1.1 (0.1) | 25.4 (8.1) | 18.2 (5.8) | 21.7 (6.8) | 15.6 (4.9) |
| 6 | 1.5 (0.2) | 1.1 (0.2) | 32.6 (12.5) | 23.5 (9.0) | 27.3 (10.6) | 19.6 (7.6) |
| 7 | 1.7 (0.2) | 1.2 (0.1) | 31.8 (9.2) | 22.8 (6.6) | 27.3 (10.0) | 19.6 (7.1) |
| 8 | 1.4 (0.1) | 1.0 (0.1) | 23.6 (8.5) | 16.9 (6.1) | 19.3 (8.4) | 13.8 (6.0) |
| 9 | 1.4 (0.2) | 1.0 (0.1) | 39.0 (8.6) | 27.9 (6.2) | 35.9 (9.6) | 25.7 (6.9) |
| 10 | 1.5 (0.2) | 1.1 (0.2) | 37.9 (13.1) | 27.1 (9.4) | 31.8 (16.5) | 22.7 (11.8) |
| 11 | 1.6 (0.2) | 1.1 (0.1) | 33.7 (10.6) | 24.2 (7.6) | 22.3 (9.0) | 16.0 (6.4) |
| 12 | 1.4 (0.3) | 1.0 (0.2) | 30.7 (11.4) | 21.9 (8.2) | 18.1 (6.5) | 13.0 (4.7) |
| 13 | 1.6 (0.4) | 1.1 (0.3) | 23.3 (11.3) | 16.7 (8.1) | 12.9 (6.3) | 9.2 (4.5) |
| 14 | 1.2 (0.1) | 0.8 (0.1) | 17.0 (6.8) | 12.2 (4.9) | 7.2 (3.1) | 5.1 (2.2) |
| 15 | 1.1 (0.1) | 0.8 (0.1) | 14.1 (3.9) | 10.1 (2.8) | 6.3 (1.9) | 4.5 (1.4) |
| 16 | 1.1 (0.1) | 0.8 (0.1) | 12.9 (2.8) | 9.2 (2.0) | 7.4 (1.2) | 5.3 (0.9) |
| 17 | 1.1 (0.2) | 0.8 (0.1) | 14.1 (4.0) | 10.1 (2.9) | 11.0 (4.3) | 7.8 (3.1) |
| 18 | 1.4 (0.2) | 1.0 (0.1) | 10.9 (1.9) | 7.8 (1.4) | 21.1 (2.9) | 15.1 (2.1) |
| 19 | 0.9 (0.5) | 0.6 (0.4) | 5.9 (3.3) | 4.3 (2.4) | 15.5 (9.2) | 11.1 (6.6) |
| 20 | 0.4 (0.2) | 0.3 (0.1) | 10.0 (3.6) | 7.2 (2.6) | 21.0 (9.4) | 15.0 (6.7) |
| 21 | 0.5 (0.2) | 0.4 (0.1) | 14.7 (4.9) | 10.5 (3.5) | 28.2 (10.5) | 20.1 (7.5) |
| 22 | 0.6 (0.2) | 0.4 (0.1) | 13.8 (7.9) | 9.9 (5.6) | 18.5 (10.3) | 13.2 (7.4) |
| 23 | 0.5 (0.2) | 0.4 (0.1) | 21.9 (5.7) | 15.6 (4.1) | 23.3 (8.4) | 16.7 (6.0) |
| 24 | 0.6 (0.2) | 0.4 (0.1) | 28.5 (7.1) | 20.4 (5.1) | 29.3 (5.7) | 21.0 (4.1) |
| 25 | 0.6 (0.2) | 0.4 (0.2) | 33.3 (7.0) | 23.8 (5.0) | 31.9 (8.0) | 22.8 (5.8) |
| 26 | 0.7 (0.2) | 0.5 (0.2) | 27.8 (13.8) | 19.9 (9.9) | 27.0 (12.4) | 19.3 (8.9) |
| 27 | 0.6 (0.2) | 0.4 (0.1) | 19.9 (12.9) | 14.2 (9.3) | 19.9 (12.7) | 14.3 (9.1) |
| 28 | 0.6 (0.2) | 0.4 (0.1) | 12.7 (10.0) | 9.1 (7.2) | 13.0 (8.9) | 9.3 (6.4) |
| 29 | 0.5 (0.2) | 0.3 (0.1) | 21.2 (2.7) | 15.2 (2.0) | 20.7 (1.8) | 14.8 (1.3) |
| 30 | 0.6 (0.2) | 0.4 (0.1) | 28.7 (3.9) | 20.6 (2.8) | 29.4 (2.7) | 21.1 (1.9) |
| 31 | 0.9 (0.2) | 0.6 (0.1) | 28.5 (8.9) | 20.5 (6.4) | 29.5 (8.0) | 21.2 (5.8) |
| Mean | 1.1 | 0.8 | 24.1 | 17.3 | 22.8 | 16.3 |
| n | 31 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.4 | 0.3 | 9.6 | 6.9 | 8.7 | 6.3 |
| Min | 0.4 | 0.3 | 5.9 | 4.3 | 6.3 | 4.5 |
| Max | 1.8 | 1.2 | 39.8 | 28.5 | 38.3 | 27.4 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for April, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.8 (0.2) | 0.6 (0.1) | 14.3 (9.0) | 10.3 (6.5) | 16.0 (10.6) | 11.5 (7.7) |
| 2 | 0.7 (0.2) | 0.5 (0.1) | 20.0 (5.7) | 14.4 (4.1) | 19.8 (7.2) | 14.2 (5.2) |
| 3 | 0.7 (0.2) | 0.5 (0.1) | 30.1 (3.5) | 21.6 (2.5) | 30.4 (3.9) | 21.8 (2.8) |
| 4 | 0.9 (0.2) | 0.6 (0.1) | 22.6 (14.5) | 16.2 (10.4) | 22.3 (14.2) | 16.0 (10.2) |
| 5 | 0.8 (0.2) | 0.6 (0.2) | 30.8 (12.4) | 22.2 (9.0) | 19.2 (6.5) | 13.8 (4.7) |
| 6 | 1.0 (0.2) | 0.7 (0.1) | 44.6 (17.1) | 32.1 (12.3) | 35.5 (3.2) | 25.5 (2.3) |
| 7 | 1.1 (0.2) | 0.8 (0.1) | 55.1 (11.6) | 39.5 (8.3) | 37.8 (5.3) | 27.1 (3.8) |
| 8 | 1.1 (0.2) | 0.8 (0.1) | 53.1 (11.3) | 38.1 (8.1) | 36.1 (6.3) | 25.9 (4.5) |
| 9 | 1.1 (0.2) | 0.8 (0.2) | | | | |
| 10 | 0.8 (0.3) | 0.6 (0.2) | 21.7 (9.6) | 15.6 (6.9) | 23.6 (13.3) | 17.0 (9.5) |
| 11 | 0.9 (0.3) | 0.6 (0.2) | 18.5 (10.6) | 13.2 (7.6) | 14.8 (10.5) | 10.6 (7.6) |
| 12 | 0.5 (0.2) | 0.4 (0.1) | 9.7 (4.4) | 7.0 (3.2) | 9.0 (4.8) | 6.5 (3.5) |
| 13 | 0.6 (0.2) | 0.4 (0.1) | 11.1 (3.8) | 7.9 (2.7) | 22.1 (5.8) | 15.8 (4.2) |
| 14 | 0.7 (0.2) | 0.5 (0.1) | 12.8 (4.4) | 9.1 (3.1) | 27.8 (4.0) | 19.9 (2.9) |
| 15 | 0.6 (0.2) | 0.5 (0.1) | 19.1 (7.7) | 13.6 (5.5) | 27.3 (6.3) | 19.5 (4.5) |
| 16 | 0.6 (0.2) | 0.5 (0.1) | 15.5 (10.0) | 11.1 (7.1) | 24.3 (10.6) | 17.4 (7.6) |
| 17 | 0.9 (0.2) | | | | | |
| 18 | 1.0 (0.4) | | | | | |
| 19 | 0.5 (0.2) | 0.4 (0.2) | 4.1 (3.3) | 2.9 (2.3) | 9.9 (7.1) | 7.1 (5.1) |
| 20 | 0.5 (0.2) | 0.3 (0.1) | 3.5 (2.0) | 2.5 (1.4) | 10.2 (4.9) | 7.3 (3.5) |
| 21 | 0.6 (0.2) | 0.4 (0.1) | 6.6 (3.2) | 4.7 (2.3) | 18.2 (6.7) | 13.1 (4.9) |
| 22 | 0.6 (0.2) | | | | | |
| 23 | 0.7 (0.2) | 0.5 (0.2) | 4.6 (2.8) | 3.3 (2.0) | 14.2 (8.3) | 10.2 (5.9) |
| 24 | 0.5 (0.2) | 0.4 (0.1) | 3.2 (1.8) | 2.3 (1.3) | 15.6 (9.9) | 11.2 (7.1) |
| 25 | 0.6 (0.2) | 0.4 (0.1) | 3.0 (1.9) | 2.1 (1.4) | 12.4 (8.2) | 8.9 (5.9) |
| 26 | 0.6 (0.2) | 0.4 (0.1) | 2.1 (0.9) | 1.5 (0.6) | 8.2 (2.5) | 5.9 (1.8) |
| 27 | 0.6 (0.2) | 0.4 (0.1) | 1.5 (0.5) | 1.1 (0.4) | 9.8 (4.6) | 7.0 (3.3) |
| 28 | 0.5 (0.2) | 0.4 (0.1) | 2.2 (0.8) | 1.6 (0.5) | 13.5 (7.6) | 9.7 (5.4) |
| 29 | | | | | | |
| 30 | | | | | | |
| Mean | 0.7 | 0.5 | 17.1 | 12.2 | 19.9 | 14.3 |
| n | 28 | 25 | 24 | 24 | 24 | 24 |
| SD | 0.2 | 0.1 | 15.5 | 11.1 | 8.8 | 6.3 |
| Min | 0.5 | 0.3 | 1.5 | 1.1 | 8.2 | 5.9 |
| Max | 1.1 | 0.8 | 55.1 | 39.5 | 37.8 | 27.1 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for May, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | 0.5 (0.3) | 0.3 (0.2) | 2.0 (1.3) | 1.4 (0.9) | 12.6 (7.2) | 9.1 (5.2) |
| 7 | 0.5 (0.4) | 0.3 (0.3) | 1.7 (1.1) | 1.2 (0.8) | 8.7 (6.4) | 6.3 (4.6) |
| 8 | 0.2 (0.1) | 0.1 (0.1) | 1.1 (0.2) | 0.8 (0.2) | 4.0 (0.9) | 2.9 (0.6) |
| 9 | 0.3 (0.1) | 0.2 (0.1) | 1.6 (0.3) | 1.2 (0.2) | 5.3 (1.5) | 3.8 (1.1) |
| 10 | 0.4 (0.2) | 0.3 (0.2) | 2.5 (0.8) | 1.8 (0.6) | 10.6 (5.8) | 7.6 (4.2) |
| 11 | 0.7 (0.2) | 0.5 (0.1) | 4.7 (1.8) | 3.4 (1.3) | 18.4 (5.7) | 13.2 (4.1) |
| 12 | 0.6 (0.2) | 0.5 (0.2) | 5.7 (1.6) | 4.1 (1.1) | 24.9 (5.6) | 17.9 (4.0) |
| 13 | 0.5 (0.2) | 0.4 (0.2) | 6.5 (3.6) | 4.6 (2.6) | 21.0 (12.2) | 15.1 (8.7) |
| 14 | 0.6 (0.2) | 0.4 (0.1) | 5.3 (3.5) | 3.8 (2.5) | 15.8 (11.1) | 11.3 (7.9) |
| 15 | 0.5 (0.1) | 0.4 (0.1) | 3.2 (0.4) | 2.3 (0.3) | 10.1 (5.8) | 7.3 (4.2) |
| 16 | 0.5 (0.2) | 0.3 (0.1) | 3.8 (0.5) | 2.7 (0.4) | 7.9 (3.6) | 5.7 (2.6) |
| 17 | 0.6 (0.2) | 0.4 (0.1) | 5.0 (2.8) | 3.6 (2.0) | 13.2 (8.2) | 9.4 (5.9) |
| 18 | 0.5 (0.2) | 0.4 (0.2) | 3.4 (0.7) | 2.4 (0.5) | 12.3 (6.3) | 8.9 (4.5) |
| 19 | 0.7 (0.3) | 0.5 (0.2) | 3.5 (1.2) | 2.5 (0.9) | 10.6 (6.5) | 7.7 (4.7) |
| 20 | 0.5 (0.2) | 0.4 (0.1) | 3.3 (0.5) | 2.3 (0.4) | 9.8 (5.5) | 7.1 (3.9) |
| 21 | 0.5 (0.2) | 0.3 (0.2) | 4.2 (1.5) | 3.0 (1.1) | 14.2 (8.3) | 10.2 (6.0) |
| 22 | 0.4 (0.2) | 0.3 (0.2) | 6.1 (2.6) | 4.3 (1.9) | 14.2 (9.2) | 10.2 (6.6) |
| 23 | 0.7 (0.3) | 0.5 (0.2) | 5.5 (1.8) | 4.0 (1.3) | 12.0 (6.7) | 8.6 (4.8) |
| 24 | 0.6 (0.2) | 0.4 (0.1) | 5.0 (1.2) | 3.5 (0.9) | 12.7 (6.6) | 9.1 (4.8) |
| 25 | 0.4 (0.2) | 0.3 (0.1) | 6.6 (2.5) | 4.7 (1.8) | 12.8 (7.9) | 9.2 (5.6) |
| 26 | 0.4 (0.2) | 0.3 (0.1) | 5.5 (0.7) | 3.9 (0.5) | 8.7 (6.0) | 6.2 (4.3) |
| 27 | 0.4 (0.2) | 0.3 (0.1) | 6.1 (0.6) | 4.4 (0.5) | 5.1 (0.8) | 3.6 (0.6) |
| 28 | 0.5 (0.1) | 0.4 (0.1) | 5.6 (1.1) | 4.0 (0.8) | 9.1 (4.9) | 6.6 (3.5) |
| 29 | 0.5 (0.3) | 0.3 (0.2) | 8.3 (3.7) | 5.9 (2.7) | 13.7 (8.3) | 9.8 (5.9) |
| 30 | 0.5 (0.1) | 0.3 (0.1) | 7.2 (1.4) | 5.2 (1.0) | 10.3 (7.1) | 7.4 (5.1) |
| 31 | 0.5 (0.2) | 0.4 (0.2) | 8.2 (1.0) | 5.9 (0.7) | 5.2 (0.4) | 3.7 (0.3) |
| Mean | 0.5 | 0.4 | 4.7 | 3.3 | 11.7 | 8.4 |
| n | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 0.1 | 0.1 | 1.9 | 1.4 | 4.7 | 3.4 |
| Min | 0.2 | 0.1 | 1.1 | 0.8 | 4.0 | 2.9 |
| Max | 0.7 | 0.5 | 8.3 | 5.9 | 24.9 | 17.9 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for June, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.3 (0.1) | 0.2 (0.1) | 8.4 (0.8) | 6.1 (0.6) | 4.5 (0.5) | 3.2 (0.3) |
| 2 | 0.5 (0.4) | 0.3 (0.3) | 6.1 (0.4) | 4.4 (0.3) | 6.4 (2.8) | 4.6 (2.0) |
| 3 | 0.4 (0.3) | 0.3 (0.2) | 6.0 (0.8) | 4.3 (0.6) | 7.7 (5.1) | 5.5 (3.7) |
| 4 | 0.4 (0.1) | 0.3 (0.1) | 9.2 (1.5) | 6.6 (1.1) | 3.6 (0.6) | 2.6 (0.4) |
| 5 | 0.5 (0.2) | 0.4 (0.2) | 10.0 (0.6) | 7.2 (0.5) | 3.3 (0.3) | 2.4 (0.2) |
| 6 | 1.0 (0.9) | 0.7 (0.6) | 9.5 (1.0) | 6.9 (0.7) | 3.2 (0.8) | 2.3 (0.6) |
| 7 | 0.7 (0.6) | 0.5 (0.4) | 8.5 (0.5) | 6.1 (0.4) | 2.6 (0.4) | 1.8 (0.3) |
| 8 | 0.6 (0.2) | 0.5 (0.2) | 7.5 (0.6) | 5.4 (0.4) | 2.3 (0.2) | 1.6 (0.2) |
| 9 | 0.4 (0.2) | 0.3 (0.2) | 7.3 (0.5) | 5.2 (0.4) | 2.2 (0.5) | 1.6 (0.4) |
| 10 | 0.3 (0.1) | 0.2 (0.1) | 5.7 (0.5) | 4.1 (0.4) | 1.7 (0.4) | 1.2 (0.3) |
| 11 | 0.3 (0.1) | 0.2 (0.1) | 5.1 (0.5) | 3.6 (0.4) | 1.4 (0.1) | 1.0 (0.1) |
| 12 | 0.1 (0.1) | 0.1 (0.1) | 4.3 (0.3) | 3.1 (0.2) | 1.2 (0.2) | 0.9 (0.1) |
| 13 | 0.1 (0.1) | 0.1 (0.1) | 3.7 (0.3) | 2.7 (0.2) | 1.1 (0.3) | 0.8 (0.2) |
| 14 | 0.2 (0.1) | 0.1 (0.1) | 4.2 (0.4) | 3.1 (0.3) | 1.3 (0.3) | 0.9 (0.2) |
| 15 | 0.1 (0.1) | 0.0 (0.1) | 4.6 (0.3) | 3.3 (0.2) | 1.1 (0.2) | 0.8 (0.1) |
| 16 | 0.0 (0.1) | 0.0 (0.1) | 5.2 (0.5) | 3.8 (0.4) | 1.4 (0.3) | 1.0 (0.2) |
| 17 | 0.0 (0.1) | 0.0 (0.1) | 4.8 (0.5) | 3.4 (0.3) | 1.1 (0.2) | 0.8 (0.2) |
| 18 | 0.0 (0.1) | 0.0 (0.0) | 2.6 (1.3) | 1.9 (0.9) | 1.1 (0.2) | 0.8 (0.2) |
| 19 | 0.1 (0.3) | 0.1 (0.2) | 3.5 (0.9) | 2.5 (0.6) | 1.1 (0.3) | 0.8 (0.2) |
| 20 | 0.2 (0.2) | 0.1 (0.1) | 3.9 (0.5) | 2.8 (0.3) | 1.1 (0.2) | 0.8 (0.1) |
| 21 | 0.1 (0.1) | 0.1 (0.1) | 4.5 (0.3) | 3.2 (0.2) | 1.3 (0.2) | 0.9 (0.1) |
| 22 | 0.2 (0.1) | 0.2 (0.1) | 5.4 (0.4) | 3.9 (0.3) | 1.6 (0.1) | 1.2 (0.1) |
| 23 | 0.3 (0.1) | 0.2 (0.1) | 6.0 (0.4) | 4.3 (0.3) | 1.9 (0.2) | 1.4 (0.1) |
| 24 | 0.5 (0.1) | 0.3 (0.1) | 3.5 (2.1) | 2.5 (1.5) | 2.0 (0.2) | |
| 25 | 0.2 (0.1) | 0.2 (0.1) | 5.1 (1.2) | 3.7 (0.8) | 2.3 (0.4) | 1.7 (0.3) |
| 26 | 0.3 (0.1) | 0.2 (0.1) | 6.2 (0.4) | 4.5 (0.3) | 2.5 (0.2) | 1.8 (0.2) |
| 27 | 0.3 (0.1) | 0.2 (0.1) | 5.2 (0.5) | 3.7 (0.3) | 2.2 (0.2) | 1.6 (0.2) |
| 28 | 0.3 (0.1) | 0.2 (0.1) | 5.0 (0.5) | 3.6 (0.4) | 2.4 (0.2) | 1.7 (0.2) |
| 29 | 0.2 (0.1) | 0.2 (0.1) | 4.6 (0.6) | 3.3 (0.4) | 2.2 (0.3) | 1.6 (0.2) |
| 30 | 0.2 (0.1) | 0.1 (0.1) | 3.9 (0.2) | 2.8 (0.2) | 2.1 (0.2) | 1.5 (0.1) |
| Mean | 0.3 | 0.2 | 5.7 | 4.1 | 2.3 | 1.7 |
| n | 30 | 30 | 30 | 30 | 30 | 29 |
| SD | 0.2 | 0.2 | 1.9 | 1.4 | 1.5 | 1.1 |
| Min | 0.0 | 0.0 | 2.6 | 1.9 | 1.1 | 0.8 |
| Max | 1.0 | 0.7 | 10.0 | 7.2 | 7.7 | 5.5 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for July, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | -0.2 (0.2) | -0.1 (0.1) | 2.9 (1.0) | 2.1 (0.7) | 1.7 (0.9) | 1.2 (0.6) |
| 2 | 0.1 (0.2) | 0.1 (0.2) | 3.0 (0.8) | 2.1 (0.6) | 1.6 (0.5) | 1.1 (0.3) |
| 3 | 0.3 (0.1) | 0.2 (0.1) | 4.2 (0.5) | 3.0 (0.4) | 2.2 (0.2) | 1.6 (0.2) |
| 4 | 0.3 (0.1) | 0.2 (0.1) | 5.1 (0.6) | 3.6 (0.4) | 2.6 (0.4) | 1.9 (0.3) |
| 5 | 0.3 (0.1) | 0.2 (0.1) | 4.9 (0.3) | 3.5 (0.2) | 2.8 (0.3) | 2.0 (0.2) |
| 6 | 0.3 (0.1) | 0.2 (0.1) | 5.3 (0.4) | 3.8 (0.3) | 3.3 (0.3) | 2.4 (0.2) |
| 7 | 0.4 (0.1) | 0.3 (0.1) | 5.7 (1.6) | 4.1 (1.1) | 3.7 (1.1) | 2.7 (0.8) |
| 8 | 0.4 (0.1) | 0.3 (0.1) | 6.3 (2.2) | 4.5 (1.6) | 4.2 (1.6) | 3.0 (1.1) |
| 9 | 0.5 (0.2) | 0.4 (0.1) | 7.3 (0.9) | 5.3 (0.6) | 4.7 (0.6) | 3.4 (0.4) |
| 10 | 0.7 (0.3) | 0.5 (0.2) | 8.1 (0.5) | 5.9 (0.3) | 5.6 (0.6) | 4.0 (0.4) |
| 11 | 0.7 (0.2) | 0.5 (0.1) | 8.3 (0.4) | 6.0 (0.3) | 5.9 (0.4) | 4.3 (0.3) |
| 12 | 0.8 (0.4) | 0.6 (0.3) | 7.0 (0.4) | 5.1 (0.3) | 5.6 (0.4) | 4.0 (0.3) |
| 13 | 1.0 (0.4) | 0.7 (0.3) | 6.5 (0.5) | 4.7 (0.4) | 5.3 (0.3) | 3.8 (0.2) |
| 14 | 0.7 (0.3) | 0.5 (0.2) | 4.7 (1.8) | 3.4 (1.3) | 3.9 (1.4) | 2.8 (1.0) |
| 15 | 0.5 (0.1) | 0.3 (0.1) | 6.0 (0.5) | 4.4 (0.4) | 5.2 (0.4) | 3.7 (0.3) |
| 16 | 0.4 (0.1) | 0.3 (0.1) | 5.2 (0.6) | 3.7 (0.5) | 4.7 (0.5) | 3.4 (0.4) |
| 17 | 0.3 (0.1) | 0.2 (0.1) | 4.9 (0.7) | 3.5 (0.5) | 4.5 (0.6) | 3.2 (0.5) |
| 18 | 0.5 (0.2) | 0.4 (0.1) | 4.2 (1.8) | 3.0 (1.3) | 3.9 (1.6) | 2.8 (1.1) |
| 19 | 0.7 (0.2) | 0.5 (0.1) | 6.6 (0.4) | 4.8 (0.3) | 6.0 (0.3) | 4.3 (0.2) |
| 20 | 1.1 (0.2) | 0.8 (0.1) | 7.5 (0.8) | 5.4 (0.6) | 7.2 (0.8) | 5.2 (0.6) |
| 21 | 0.8 (0.2) | 0.6 (0.2) | 6.5 (2.0) | 4.7 (1.4) | 6.3 (2.3) | 4.6 (1.7) |
| 22 | 1.1 (0.5) | 0.8 (0.3) | 6.5 (0.8) | 4.7 (0.6) | 6.6 (0.9) | 4.7 (0.6) |
| 23 | 0.7 (0.2) | 0.5 (0.1) | 4.6 (0.2) | 3.3 (0.2) | 4.7 (0.3) | 3.4 (0.2) |
| 24 | 0.4 (0.1) | 0.3 (0.1) | 4.7 (0.4) | 3.4 (0.3) | 4.7 (0.3) | 3.4 (0.2) |
| 25 | 0.6 (0.2) | 0.4 (0.2) | 4.2 (1.6) | 3.0 (1.2) | 4.3 (1.6) | 3.1 (1.2) |
| 26 | 0.9 (0.3) | 0.6 (0.2) | 5.7 (0.4) | 4.1 (0.3) | 5.9 (0.3) | 4.3 (0.2) |
| 27 | 1.0 (0.2) | 0.7 (0.2) | 6.7 (1.0) | 4.9 (0.7) | 6.8 (1.0) | 4.9 (0.7) |
| 28 | 0.9 (0.2) | 0.6 (0.1) | 6.7 (0.6) | 4.9 (0.4) | 6.9 (0.6) | 5.0 (0.4) |
| 29 | 1.1 (0.2) | 0.8 (0.1) | 7.2 (0.6) | 5.2 (0.4) | 7.5 (0.6) | 5.4 (0.5) |
| 30 | 0.5 (0.5) | 0.4 (0.3) | 5.7 (2.6) | 4.1 (1.9) | 6.2 (2.3) | 4.5 (1.7) |
| 31 | 0.9 (0.2) | 0.6 (0.2) | 6.5 (0.5) | 4.7 (0.3) | 6.7 (0.5) | 4.8 (0.4) |
| Mean | 0.6 | 0.4 | 5.8 | 4.2 | 4.9 | 3.5 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.3 | 0.2 | 1.3 | 1 | 1.6 | 1.2 |
| Min | -0.2 | -0.1 | 2.9 | 2.1 | 1.6 | 1.1 |
| Max | 1.1 | 0.8 | 8.3 | 6.0 | 7.5 | 5.4 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for August, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.8 (0.2) | 0.5 (0.1) | 6.3 (0.7) | 4.6 (0.5) | 6.8 (0.8) | 4.9 (0.6) |
| 2 | 0.7 (0.2) | 0.5 (0.1) | 5.9 (0.5) | 4.3 (0.4) | 6.4 (0.5) | 4.6 (0.4) |
| 3 | 0.8 (0.4) | 0.6 (0.3) | 4.4 (0.4) | 3.2 (0.3) | 4.9 (0.5) | 3.6 (0.4) |
| 4 | 1.0 (0.2) | 0.7 (0.2) | 4.7 (0.9) | 3.4 (0.7) | 5.3 (1.0) | 3.8 (0.7) |
| 5 | | | 4.5 (1.7) | 3.2 (1.2) | 5.1 (1.8) | 3.7 (1.3) |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | 0.4 (0.1) | 0.3 (0.1) | 3.4 (0.4) | 2.5 (0.3) | 3.9 (0.3) | 2.8 (0.2) |
| 9 | 0.3 (0.2) | 0.2 (0.1) | 2.9 (0.4) | 2.1 (0.3) | 3.3 (0.4) | 2.4 (0.3) |
| 10 | 0.3 (0.1) | 0.2 (0.1) | 3.3 (0.3) | 2.4 (0.2) | 3.7 (0.4) | 2.7 (0.3) |
| 11 | 0.2 (0.1) | 0.1 (0.1) | 3.1 (0.4) | 2.2 (0.3) | 3.7 (0.3) | 2.7 (0.2) |
| 12 | 0.3 (0.3) | 0.2 (0.2) | | | | |
| 13 | 0.4 (0.2) | 0.3 (0.2) | 3.7 (0.3) | 2.6 (0.2) | 4.2 (0.4) | 3.0 (0.3) |
| 14 | 0.4 (0.1) | 0.3 (0.1) | 4.2 (0.9) | 3.0 (0.6) | 4.9 (0.7) | 3.5 (0.5) |
| 15 | 0.5 (0.1) | 0.4 (0.1) | 5.1 (0.5) | 3.7 (0.3) | 6.2 (0.4) | 4.5 (0.3) |
| 16 | 0.5 (0.2) | 0.4 (0.1) | 5.4 (0.7) | 3.9 (0.5) | 6.6 (0.9) | 4.7 (0.6) |
| 17 | 0.4 (0.1) | 0.3 (0.1) | 5.6 (0.6) | 4.0 (0.4) | 6.9 (0.6) | 5.0 (0.4) |
| 18 | 0.6 (0.2) | 0.4 (0.1) | 5.7 (0.7) | 4.1 (0.5) | 7.0 (0.7) | 5.0 (0.5) |
| 19 | 1.0 (0.4) | 0.7 (0.3) | 6.6 (0.6) | 4.7 (0.4) | 7.5 (0.6) | 5.4 (0.4) |
| 20 | 1.0 (0.2) | 0.7 (0.1) | 6.3 (0.6) | 4.5 (0.4) | 6.6 (0.5) | 4.7 (0.4) |
| 21 | 0.7 (0.1) | 0.5 (0.1) | 5.3 (0.6) | 3.8 (0.4) | 5.7 (0.8) | 4.1 (0.6) |
| 22 | 0.6 (0.2) | 0.4 (0.1) | 4.1 (0.4) | 2.9 (0.3) | 4.2 (0.4) | 3.0 (0.3) |
| 23 | 0.6 (0.2) | 0.5 (0.1) | 4.3 (0.3) | 3.1 (0.2) | 4.6 (0.4) | 3.3 (0.3) |
| 24 | 0.5 (0.1) | 0.3 (0.1) | 4.1 (0.5) | 3.0 (0.3) | 4.6 (0.5) | 3.3 (0.4) |
| 25 | 0.7 (0.2) | 0.5 (0.1) | 4.6 (0.4) | 3.3 (0.3) | 5.1 (0.4) | 3.7 (0.3) |
| 26 | | | 4.6 (0.4) | 3.3 (0.3) | 5.1 (0.4) | 3.7 (0.3) |
| 27 | | | 4.8 (0.5) | 3.5 (0.4) | 5.3 (0.6) | 3.8 (0.4) |
| 28 | | | 6.0 (2.1) | 4.3 (1.5) | 8.2 (0.8) | 5.9 (0.6) |
| 29 | | | 7.1 (0.5) | 5.2 (0.4) | 8.6 (0.8) | 6.2 (0.6) |
| 30 | 0.7 (0.2) | 0.5 (0.1) | 7.0 (0.6) | 5.0 (0.4) | 8.5 (0.8) | 6.2 (0.6) |
| 31 | 0.7 (0.1) | 0.5 (0.1) | 6.3 (0.9) | 4.6 (0.6) | 7.3 (0.8) | 5.3 (0.6) |
| Mean | 0.6 | 0.4 | 5 | 3.6 | 5.7 | 4.1 |
| n | 24 | 24 | 28 | 28 | 28 | 28 |
| SD | 0.2 | 0.2 | 1.2 | 0.8 | 1.5 | 1.1 |
| Min | 0.2 | 0.1 | 2.9 | 2.1 | 3.3 | 2.4 |
| Max | 1.0 | 0.7 | 7.1 | 5.2 | 8.6 | 6.2 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for September, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.4 (0.2) | 0.3 (0.1) | 3.9 (0.4) | 2.8 (0.3) | 4.7 (0.5) | 3.4 (0.3) |
| 2 | 0.2 (0.2) | 0.2 (0.1) | 3.1 (0.5) | 2.2 (0.4) | 3.7 (0.5) | 2.7 (0.4) |
| 3 | 0.2 (0.2) | 0.1 (0.1) | 3.6 (0.9) | 2.6 (0.6) | 4.0 (0.8) | 2.9 (0.6) |
| 4 | 0.8 (0.2) | 0.5 (0.1) | | | 5.0 (1.1) | 3.6 (0.8) |
| 5 | 0.5 (0.1) | 0.4 (0.1) | 3.9 (0.6) | 2.8 (0.5) | 4.6 (0.6) | 3.3 (0.5) |
| 6 | 0.4 (0.1) | 0.3 (0.1) | 5.2 (0.4) | 3.8 (0.3) | 6.5 (0.5) | 4.7 (0.3) |
| 7 | 0.6 (0.2) | 0.4 (0.2) | 4.7 (0.3) | 3.4 (0.2) | 6.4 (0.6) | 4.6 (0.5) |
| 8 | 0.7 (0.2) | 0.5 (0.1) | 5.0 (0.9) | 3.6 (0.7) | 6.6 (1.1) | 4.8 (0.8) |
| 9 | 0.6 (0.1) | 0.4 (0.1) | 5.8 (0.3) | 4.2 (0.2) | 7.3 (0.5) | 5.3 (0.3) |
| 10 | 0.6 (0.1) | 0.4 (0.0) | 5.0 (0.5) | 3.6 (0.4) | 6.3 (0.5) | 4.5 (0.4) |
| 11 | 0.7 (0.1) | 0.5 (0.1) | 5.2 (0.6) | 3.8 (0.4) | 6.7 (0.6) | 4.9 (0.5) |
| 12 | 0.6 (0.1) | 0.5 (0.1) | 6.3 (0.7) | 4.5 (0.5) | 8.0 (1.0) | 5.8 (0.7) |
| 13 | 0.7 (0.1) | 0.5 (0.1) | 7.5 (0.9) | 5.4 (0.7) | 9.5 (1.1) | 6.9 (0.8) |
| 14 | 0.7 (0.1) | 0.5 (0.1) | 6.6 (0.5) | 4.8 (0.3) | 8.3 (0.6) | 6.0 (0.4) |
| 15 | 0.6 (0.1) | 0.4 (0.1) | 4.8 (0.6) | 3.5 (0.4) | 6.0 (0.6) | 4.3 (0.5) |
| 16 | 0.2 (0.1) | 0.2 (0.1) | 2.6 (0.5) | 1.9 (0.4) | 3.6 (0.6) | 2.6 (0.4) |
| 17 | 0.2 (0.1) | 0.2 (0.1) | 3.3 (0.8) | 2.4 (0.6) | 4.3 (0.5) | 3.1 (0.3) |
| 18 | 0.1 (0.1) | 0.1 (0.1) | 3.5 (1.5) | 2.5 (1.0) | 4.4 (1.8) | 3.2 (1.3) |
| 19 | 0.2 (0.1) | 0.1 (0.1) | 3.7 (0.8) | 2.6 (0.6) | 4.8 (0.8) | 3.4 (0.6) |
| 20 | 0.2 (0.1) | 0.1 (0.1) | 4.3 (1.5) | 3.1 (1.1) | 5.6 (1.4) | 4.0 (1.0) |
| 21 | 0.1 (0.1) | 0.1 (0.1) | 4.1 (0.8) | 2.9 (0.6) | 5.2 (0.6) | 3.8 (0.4) |
| 22 | 0.1 (0.1) | 0.1 (0.1) | 4.1 (1.0) | 2.9 (0.7) | 5.3 (0.5) | 3.8 (0.3) |
| 23 | 0.2 (0.1) | 0.2 (0.1) | 4.7 (1.1) | 3.4 (0.8) | 5.7 (0.7) | 4.1 (0.5) |
| 24 | 0.2 (0.1) | 0.1 (0.1) | 5.1 (1.2) | 3.6 (0.8) | 6.2 (2.0) | 4.4 (1.4) |
| 25 | 0.2 (0.2) | 0.1 (0.1) | 5.1 (0.8) | 3.7 (0.6) | 5.3 (0.6) | 3.8 (0.4) |
| 26 | 0.5 (0.1) | 0.3 (0.1) | 7.3 (0.7) | 5.3 (0.5) | 7.6 (0.7) | 5.4 (0.5) |
| 27 | 0.5 (0.2) | 0.3 (0.2) | 6.3 (0.3) | 4.6 (0.3) | 7.6 (0.3) | 5.5 (0.2) |
| 28 | 0.3 (0.1) | 0.2 (0.1) | 5.9 (0.5) | 4.3 (0.4) | 6.9 (0.3) | 5.0 (0.2) |
| 29 | 0.5 (0.2) | 0.4 (0.2) | 5.9 (0.6) | 4.2 (0.4) | 7.3 (1.3) | 5.3 (0.9) |
| 30 | 0.6 (0.2) | 0.5 (0.1) | 9.5 (2.8) | 6.8 (2.0) | 9.5 (1.7) | 6.9 (1.2) |
| Mean | 0.4 | 0.3 | 5 | 3.6 | 6.1 | 4.4 |
| n | 30 | 30 | 29 | 29 | 30 | 30 |
| SD | 0.2 | 0.2 | 1.5 | 1.1 | 1.6 | 1.1 |
| Min | 0.1 | 0.1 | 2.6 | 1.9 | 3.6 | 2.6 |
| Max | 0.8 | 0.5 | 9.5 | 6.8 | 9.5 | 6.9 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for October, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.4 (0.2) | 0.3 (0.1) | 10.4 (4.3) | 7.5 (3.1) | 10.4 (4.3) | 7.5 (3.1) |
| 2 | 0.6 (0.2) | 0.5 (0.1) | 17.6 (9.7) | 12.6 (6.9) | 18.9 (7.5) | 13.5 (5.4) |
| 3 | 0.6 (0.2) | 0.5 (0.2) | 17.7 (9.1) | 12.7 (6.5) | 17.0 (8.3) | 12.2 (5.9) |
| 4 | 0.4 (0.3) | 0.3 (0.2) | 15.2 (7.9) | 10.9 (5.7) | 14.0 (6.9) | 10.0 (4.9) |
| 5 | 0.6 (0.3) | 0.4 (0.2) | 12.7 (6.1) | 9.2 (4.4) | 13.2 (6.3) | 9.6 (4.6) |
| 6 | 0.5 (0.1) | 0.3 (0.1) | 11.8 (5.0) | 8.5 (3.6) | 12.2 (5.5) | 8.8 (3.9) |
| 7 | 0.5 (0.1) | 0.3 (0.1) | 15.5 (5.6) | 11.1 (4.0) | 14.9 (5.3) | 10.7 (3.8) |
| 8 | 0.6 (0.2) | 0.4 (0.1) | | | | |
| 9 | 1.2 (0.2) | 0.8 (0.1) | | | | |
| 10 | 1.3 (0.6) | 0.9 (0.5) | 10.8 (2.3) | 7.7 (1.6) | 9.4 (2.4) | 6.8 (1.7) |
| 11 | 0.9 (0.1) | 0.7 (0.1) | | | | |
| 12 | 0.6 (0.2) | 0.4 (0.1) | 18.9 (9.1) | 13.6 (6.5) | 17.0 (8.5) | 12.2 (6.1) |
| 13 | 0.4 (0.1) | 0.3 (0.1) | 17.6 (7.8) | 12.6 (5.6) | 16.0 (6.9) | 11.5 (5.0) |
| 14 | 0.4 (0.1) | 0.3 (0.1) | 16.1 (7.8) | 11.6 (5.6) | 14.9 (7.3) | 10.7 (5.2) |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| Mean | 0.6 | 0.5 | 14.9 | 10.7 | 14.4 | 10.3 |
| n | 14 | 14 | 11 | 11 | 11 | 11 |
| SD | 0.3 | 0.2 | 2.9 | 2.1 | 2.8 | 2 |
| Min | 0.4 | 0.3 | 10.4 | 7.5 | 9.4 | 6.8 |
| Max | 1.3 | 0.9 | 18.9 | 13.6 | 18.9 | 13.5 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for November, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | 1.2 (0.2) | 0.9 (0.2) | | | 34.0 (7.2) | 24.5 (5.2) |
| 15 | 0.9 (0.2) | 0.6 (0.1) | 17.1 (7.5) | 12.3 (5.4) | 15.5 (7.8) | 11.1 (5.6) |
| 16 | 0.9 (0.2) | 0.6 (0.1) | 39.3 (7.1) | 28.2 (5.1) | 34.9 (5.8) | 25.0 (4.2) |
| 17 | 1.0 (0.2) | 0.7 (0.1) | 43.2 (9.7) | 31.0 (7.0) | 36.3 (6.1) | 26.0 (4.3) |
| 18 | 1.0 (0.3) | 0.7 (0.2) | 37.4 (14.8) | 26.8 (10.6) | 31.1 (11.7) | 22.3 (8.4) |
| 19 | 0.7 (0.2) | 0.5 (0.1) | 36.9 (9.2) | 26.4 (6.6) | 32.5 (6.8) | 23.3 (4.9) |
| 20 | 0.8 (0.2) | 0.6 (0.1) | 36.5 (7.5) | 26.1 (5.4) | 33.4 (5.2) | 23.9 (3.7) |
| 21 | 0.8 (0.2) | 0.6 (0.1) | 38.8 (7.4) | 27.8 (5.3) | 37.3 (5.8) | 26.7 (4.1) |
| 22 | 0.7 (0.1) | 0.5 (0.1) | 36.9 (7.8) | 26.4 (5.6) | 36.8 (6.9) | 26.3 (4.9) |
| 23 | 0.9 (0.2) | 0.7 (0.1) | 40.4 (5.3) | 28.9 (3.8) | 40.9 (5.1) | 29.3 (3.7) |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | 38.8 (9.6) | 27.8 (6.9) | 41.6 (6.3) | 29.8 (4.5) |
| 28 | 1.1 (0.4) | 0.8 (0.3) | 35.9 (11.0) | 25.8 (7.9) | 37.2 (9.6) | 26.6 (6.9) |
| 29 | 0.9 (0.2) | 0.7 (0.1) | 40.6 (4.4) | 29.1 (3.2) | 40.5 (3.8) | 29.0 (2.7) |
| 30 | 1.1 (0.2) | 0.8 (0.1) | 43.6 (3.9) | 31.3 (2.8) | 42.5 (3.6) | 30.6 (2.6) |
| Mean | 0.9 | 0.7 | 37.3 | 26.8 | 35.3 | 25.3 |
| n | 13 | 13 | 13 | 13 | 14 | 14 |
| SD | 0.1 | 0.1 | 6.3 | 4.5 | 6.5 | 4.6 |
| Min | 0.7 | 0.5 | 17.1 | 12.3 | 15.5 | 11.1 |
| Max | 1.2 | 0.9 | 43.6 | 31.3 | 42.5 | 30.6 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for December, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.0 (0.2) | 0.7 (0.1) | 40.9 (6.8) | 29.3 (4.9) | 39.5 (4.1) | 28.3 (3.0) |
| 2 | 0.9 (0.2) | 0.7 (0.1) | 41.6 (4.6) | 29.8 (3.3) | 37.4 (3.3) | 26.8 (2.3) |
| 3 | 0.9 (0.2) | 0.6 (0.2) | 40.3 (4.4) | 28.9 (3.1) | 38.2 (2.8) | 27.4 (2.0) |
| 4 | 1.1 (0.2) | 0.8 (0.2) | 38.5 (5.7) | 27.7 (4.1) | 36.1 (6.2) | 26.0 (4.4) |
| 5 | 0.8 (0.2) | 0.6 (0.1) | 39.4 (3.9) | 28.3 (2.8) | 36.7 (4.0) | 26.3 (2.9) |
| 6 | 0.8 (0.2) | 0.6 (0.1) | 41.3 (4.9) | 29.6 (3.5) | 38.2 (3.6) | 27.4 (2.6) |
| 7 | 0.8 (0.2) | 0.6 (0.1) | 41.9 (5.0) | 30.0 (3.6) | 37.6 (3.6) | 26.9 (2.6) |
| 8 | 0.8 (0.2) | 0.6 (0.1) | 38.4 (3.8) | 27.5 (2.7) | 36.6 (3.6) | 26.2 (2.5) |
| 9 | 0.9 (0.2) | 0.6 (0.1) | 29.1 (8.6) | 20.9 (6.2) | 34.7 (8.8) | 24.9 (6.3) |
| 10 | 0.8 (0.2) | 0.5 (0.1) | 17.2 (6.2) | 12.4 (4.5) | 18.3 (10.7) | 13.2 (7.7) |
| 11 | 0.8 (0.2) | 0.6 (0.1) | 18.7 (5.7) | 13.5 (4.2) | 16.5 (4.3) | 11.9 (3.1) |
| 12 | 0.8 (0.2) | 0.5 (0.1) | 38.9 (3.9) | 28.0 (2.8) | 33.1 (2.7) | 23.8 (1.9) |
| 13 | 0.8 (0.1) | 0.5 (0.1) | 42.1 (4.6) | 30.2 (3.3) | 36.8 (3.5) | 26.4 (2.5) |
| 14 | 0.9 (0.2) | 0.6 (0.2) | 46.6 (5.2) | 33.4 (3.7) | 38.6 (3.1) | 27.7 (2.2) |
| 15 | 1.0 (0.3) | 0.7 (0.2) | 36.4 (15.3) | 26.2 (11.0) | 28.2 (11.0) | 20.3 (7.9) |
| 16 | 1.0 (0.2) | 0.7 (0.1) | 45.0 (8.2) | 32.4 (5.9) | 37.5 (7.8) | 27.0 (5.6) |
| 17 | 1.2 (0.2) | 0.9 (0.2) | 46.6 (9.3) | 33.5 (6.7) | 42.7 (7.7) | 30.7 (5.6) |
| 18 | 1.0 (0.2) | 0.7 (0.1) | 42.2 (4.6) | 30.4 (3.3) | 39.7 (5.0) | 28.6 (3.6) |
| 19 | 1.1 (0.2) | 0.8 (0.1) | 29.6 (13.3) | 21.3 (9.6) | 29.1 (13.3) | 21.0 (9.5) |
| 20 | 1.1 (0.2) | 0.8 (0.2) | 32.5 (5.5) | 23.4 (3.9) | 28.5 (5.7) | 20.5 (4.1) |
| 21 | 0.8 (0.2) | 0.6 (0.1) | 39.4 (5.4) | 28.3 (3.9) | 36.1 (5.3) | 25.9 (3.8) |
| 22 | 0.6 (0.1) | 0.5 (0.1) | 41.7 (3.6) | 29.9 (2.6) | 36.3 (3.1) | 26.0 (2.3) |
| 23 | 0.7 (0.1) | 0.5 (0.1) | 41.9 (3.5) | 30.0 (2.5) | 35.6 (2.6) | 25.5 (1.9) |
| 24 | 0.9 (0.2) | 0.6 (0.1) | 34.3 (13.3) | 24.6 (9.6) | 29.1 (12.2) | 20.9 (8.7) |
| 25 | 0.7 (0.1) | 0.5 (0.1) | 27.0 (7.4) | 19.4 (5.3) | 24.5 (6.9) | 17.6 (5.0) |
| 26 | 1.0 (0.2) | 0.7 (0.1) | 41.8 (4.0) | 30.0 (2.9) | 38.9 (3.3) | 27.9 (2.4) |
| 27 | 0.9 (0.2) | 0.7 (0.1) | 37.3 (7.5) | 26.9 (5.4) | 34.6 (6.6) | 24.9 (4.7) |
| 28 | 0.8 (0.2) | 0.5 (0.1) | 17.9 (10.2) | 12.9 (7.3) | 17.1 (9.1) | 12.3 (6.5) |
| 29 | 0.7 (0.2) | 0.5 (0.1) | 25.7 (4.8) | 18.5 (3.5) | 29.3 (4.1) | 21.0 (3.0) |
| 30 | 0.9 (0.2) | 0.6 (0.1) | 25.3 (4.4) | 18.2 (3.2) | 33.8 (5.0) | 24.2 (3.6) |
| 31 | 0.6 (0.2) | 0.4 (0.1) | 30.7 (4.2) | 22.1 (3.0) | 32.4 (4.9) | 23.2 (3.5) |
| Mean | 0.9 | 0.6 | 35.8 | 25.7 | 33.3 | 23.9 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.1 | 0.1 | 8.2 | 5.9 | 6.6 | 4.7 |
| Min | 0.6 | 0.4 | 17.2 | 12.4 | 16.5 | 11.9 |
| Max | 1.2 | 0.9 | 46.6 | 33.5 | 42.7 | 30.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for January, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.5 (0.1) | 0.4 (0.1) | 36.5 (2.4) | 26.1 (1.7) | 31.2 (0.8) | 22.4 (0.6) |
| 2 | 0.7 (0.2) | 0.5 (0.1) | 39.6 (3.5) | 28.4 (2.5) | 32.8 (3.1) | 23.5 (2.2) |
| 3 | 0.9 (0.2) | 0.7 (0.1) | 40.3 (7.2) | 28.9 (5.2) | 35.0 (4.5) | 25.2 (3.2) |
| 4 | 1.0 (0.2) | | | | | |
| 5 | 1.2 (0.3) | 0.8 (0.2) | 34.2 (7.5) | 24.6 (5.4) | 31.2 (4.8) | 22.4 (3.5) |
| 6 | 1.1 (0.2) | 0.8 (0.1) | 40.3 (3.8) | 29.0 (2.7) | 35.7 (2.7) | 25.7 (1.9) |
| 7 | 0.9 (0.2) | 0.6 (0.1) | 30.2 (12.2) | 21.7 (8.8) | 29.0 (10.4) | 20.9 (7.4) |
| 8 | 0.8 (0.2) | 0.5 (0.1) | 38.9 (4.0) | 27.9 (2.9) | 36.2 (2.8) | 26.0 (2.0) |
| 9 | 0.7 (0.2) | 0.5 (0.1) | 41.3 (5.2) | 29.7 (3.8) | 36.4 (3.0) | 26.1 (2.1) |
| 10 | 0.8 (0.1) | | | | | |
| 11 | 1.0 (0.2) | 0.7 (0.1) | 33.3 (5.2) | 23.9 (3.8) | 30.4 (3.2) | 21.9 (2.3) |
| 12 | 0.7 (0.1) | 0.5 (0.1) | 40.1 (5.0) | 28.8 (3.6) | 33.8 (4.1) | 24.2 (3.0) |
| 13 | 0.8 (0.1) | 0.6 (0.1) | 43.3 (4.4) | 31.1 (3.1) | 41.2 (2.5) | 29.6 (1.8) |
| 14 | 0.8 (0.2) | 0.5 (0.1) | 44.7 (3.6) | 32.1 (2.5) | 40.8 (3.3) | 29.3 (2.4) |
| 15 | 1.0 (0.4) | 0.7 (0.3) | 44.8 (4.4) | 32.2 (3.1) | 40.4 (5.1) | 28.9 (3.6) |
| 16 | 0.4 (0.2) | 0.3 (0.2) | 37.7 (5.0) | 27.0 (3.5) | 35.7 (3.2) | 25.6 (2.3) |
| 17 | 0.6 (0.2) | | 39.5 (4.7) | 28.3 (3.4) | 37.4 (4.5) | 26.8 (3.2) |
| 18 | 1.0 (0.2) | 0.7 (0.1) | 48.9 (4.2) | 35.1 (3.0) | 46.2 (3.9) | 33.2 (2.8) |
| 19 | 1.1 (0.2) | 0.8 (0.1) | 53.1 (6.9) | 38.2 (5.0) | 48.2 (7.4) | 34.7 (5.3) |
| 20 | 0.8 (0.2) | 0.6 (0.1) | 46.3 (10.8) | 33.2 (7.8) | 46.0 (7.3) | 33.0 (5.3) |
| 21 | 0.7 (0.1) | 0.5 (0.1) | 33.5 (6.0) | 24.0 (4.3) | 33.4 (8.5) | 23.9 (6.1) |
| 22 | 0.8 (0.1) | 0.5 (0.1) | 35.5 (6.9) | 25.5 (4.9) | 36.6 (6.5) | 26.2 (4.7) |
| 23 | 1.3 (0.2) | 0.9 (0.1) | | | 53.3 (6.4) | 38.2 (4.6) |
| 24 | 1.3 (0.4) | 1.0 (0.3) | 57.4 (8.4) | 41.2 (6.0) | 54.1 (9.6) | 38.9 (6.9) |
| 25 | 1.1 (0.2) | 0.8 (0.1) | 63.9 (8.4) | 45.8 (6.0) | 55.4 (7.8) | 39.7 (5.6) |
| 26 | 0.9 (0.2) | 0.6 (0.1) | 54.3 (8.5) | 39.0 (6.1) | 43.0 (7.9) | 30.8 (5.6) |
| 27 | 1.0 (0.2) | 0.7 (0.1) | 57.3 (7.5) | 41.1 (5.4) | 47.9 (5.5) | 34.4 (3.9) |
| 28 | 1.2 (0.2) | 0.8 (0.1) | 50.6 (16.1) | 36.4 (11.5) | 44.3 (14.8) | 31.8 (10.6) |
| 29 | 1.2 (0.3) | 0.8 (0.2) | 63.3 (8.7) | 45.5 (6.2) | | |
| 30 | 1.1 (0.2) | 0.8 (0.1) | 55.2 (9.8) | 39.6 (7.0) | 51.1 (12.3) | 36.6 (8.8) |
| 31 | 1.3 (0.1) | 0.9 (0.1) | 48.0 (9.6) | 34.4 (6.9) | 45.2 (9.4) | 32.4 (6.8) |
| Mean | 0.9 | 0.7 | 44.7 | 32.1 | 40.4 | 29 |
| n | 31 | 28 | 28 | 28 | 28 | 28 |
| SD | 0.2 | 0.2 | 9.1 | 6.5 | 7.6 | 5.4 |
| Min | 0.4 | 0.3 | 30.2 | 21.7 | 29.0 | 20.9 |
| Max | 1.3 | 1.0 | 63.9 | 45.8 | 55.4 | 39.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for February, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.2 (0.3) | 0.8 (0.2) | 46.3 (10.7) | 33.3 (7.7) | 42.8 (9.6) | 30.7 (6.9) |
| 2 | 1.3 (0.3) | 0.9 (0.2) | 43.3 (10.1) | 31.1 (7.3) | 41.3 (12.5) | 29.6 (9.0) |
| 3 | 1.0 (0.2) | 0.7 (0.2) | 50.2 (5.6) | 36.0 (4.0) | 43.1 (6.8) | 30.9 (4.9) |
| 4 | 0.9 (0.2) | 0.6 (0.2) | 47.7 (6.5) | 34.2 (4.7) | 41.5 (5.7) | 29.7 (4.1) |
| 5 | 0.8 (0.2) | 0.6 (0.1) | 37.5 (7.9) | 26.9 (5.6) | 40.1 (4.6) | 28.7 (3.3) |
| 6 | 0.9 (0.2) | 0.6 (0.1) | 41.9 (5.5) | 30.1 (4.0) | 38.6 (4.0) | 27.6 (2.9) |
| 7 | 0.9 (0.2) | 0.7 (0.1) | 39.3 (13.2) | 28.2 (9.5) | 37.5 (12.7) | 26.9 (9.1) |
| 8 | 1.0 (0.2) | 0.7 (0.2) | 33.7 (14.3) | 24.2 (10.3) | 32.8 (12.9) | 23.5 (9.3) |
| 9 | 1.1 (0.4) | 0.8 (0.3) | 41.2 (8.7) | 29.6 (6.2) | 37.6 (12.1) | 26.9 (8.7) |
| 10 | 1.2 (0.3) | 0.9 (0.2) | 35.2 (14.7) | 25.3 (10.6) | 32.9 (13.6) | 23.6 (9.8) |
| 11 | 1.0 (0.2) | 0.7 (0.2) | 26.0 (12.1) | 18.7 (8.7) | 22.3 (9.9) | 16.0 (7.1) |
| 12 | 0.9 (0.2) | 0.6 (0.1) | 25.5 (6.7) | 18.3 (4.8) | 21.5 (6.9) | 15.4 (5.0) |
| 13 | 0.9 (0.2) | 0.6 (0.1) | 30.6 (7.8) | 22.0 (5.6) | 26.8 (8.0) | 19.2 (5.7) |
| 14 | 0.9 (0.1) | 0.6 (0.1) | 33.1 (7.7) | 23.7 (5.6) | 29.7 (6.9) | 21.3 (5.0) |
| 15 | 0.8 (0.2) | 0.6 (0.2) | 34.8 (6.7) | 25.0 (4.8) | 32.4 (6.5) | 23.2 (4.7) |
| 16 | 0.7 (0.2) | 0.5 (0.1) | 37.3 (6.7) | 26.8 (4.8) | 33.1 (6.6) | 23.7 (4.8) |
| 17 | 0.7 (0.2) | 0.5 (0.1) | 37.9 (7.7) | 27.2 (5.5) | 32.3 (8.0) | 23.1 (5.7) |
| 18 | 0.9 (0.2) | 0.6 (0.1) | 39.6 (4.4) | 28.5 (3.2) | 31.7 (3.9) | 22.8 (2.8) |
| 19 | 1.1 (0.3) | 0.8 (0.2) | 40.3 (7.0) | 29.0 (5.1) | 33.7 (7.2) | 24.2 (5.2) |
| 20 | 0.7 (0.1) | 0.5 (0.1) | 37.8 (8.9) | 27.1 (6.4) | 35.1 (10.8) | 25.1 (7.7) |
| 21 | 0.7 (0.2) | 0.5 (0.1) | 39.4 (5.0) | 28.2 (3.6) | 32.7 (6.3) | 23.4 (4.5) |
| 22 | 0.8 (0.2) | 0.5 (0.1) | 40.2 (5.1) | 28.8 (3.7) | 33.6 (4.4) | 24.1 (3.2) |
| 23 | 0.7 (0.2) | 0.5 (0.1) | 37.7 (6.6) | 27.0 (4.8) | 31.1 (8.6) | 22.2 (6.2) |
| 24 | 0.6 (0.1) | 0.5 (0.1) | 36.3 (5.6) | 26.0 (4.0) | 30.9 (5.2) | 22.1 (3.7) |
| 25 | 0.8 (0.3) | 0.6 (0.2) | 37.5 (4.9) | 26.9 (3.5) | 32.5 (6.9) | 23.3 (5.0) |
| 26 | 1.0 (0.2) | 0.7 (0.1) | 34.1 (9.2) | 24.5 (6.6) | 29.9 (10.8) | 21.4 (7.8) |
| 27 | 1.1 (0.3) | 0.8 (0.2) | 28.8 (11.0) | 20.7 (7.9) | 25.2 (10.5) | 18.1 (7.5) |
| 28 | 1.1 (0.2) | 0.8 (0.2) | 37.1 (6.3) | 26.7 (4.5) | 32.6 (7.1) | 23.4 (5.1) |
| Mean | 0.9 (0.2) | 0.7 (0.1) | 37.5 (8.1) | 26.9 (5.8) | 33.4 (8.2) | 23.9 (5.9) |
| n | 28 | 28 | 28 | 28 | 28.0 | 28 |
| SD | 0 | 0 | 6 | 4 | 6 | 4 |
| Min | 0.6 | 0.5 | 25.5 | 18.3 | 21.5 | 15.4 |
| Max | 1.3 | 0.9 | 50.2 | 36.0 | 43.1 | 30.9 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for March, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.9 (0.2) | 0.7 (0.1) | 42.4 (6.3) | 30.4 (4.5) | 39.4 (5.2) | 28.3 (3.8) |
| 2 | 0.8 (0.1) | | | | | |
| 3 | 0.7 (0.2) | 0.5 (0.1) | 37.7 (3.0) | 27.0 (2.1) | 35.5 (5.6) | 25.4 (4.0) |
| 4 | 0.8 (0.2) | 0.6 (0.2) | 38.5 (6.0) | 27.7 (4.4) | 40.8 (6.9) | 29.4 (5.0) |
| 5 | 0.9 (0.2) | 0.6 (0.2) | 41.3 (10.8) | 29.6 (7.7) | 42.4 (13.2) | 30.4 (9.5) |
| 6 | 1.0 (0.2) | 0.7 (0.1) | 37.4 (18.7) | 26.9 (13.4) | 32.9 (17.4) | 23.6 (12.5) |
| 7 | 0.8 (0.2) | 0.5 (0.1) | 26.7 (16.0) | 19.2 (11.5) | 20.6 (9.2) | 14.8 (6.6) |
| 8 | 0.7 (0.2) | 0.5 (0.1) | 16.2 (8.2) | 11.6 (5.9) | 13.3 (4.5) | 9.6 (3.3) |
| 9 | 0.4 (0.2) | 0.3 (0.1) | 9.8 (3.5) | 7.0 (2.5) | 8.2 (1.6) | 5.9 (1.1) |
| 10 | 0.5 (0.2) | 0.4 (0.1) | 16.8 (5.2) | 12.0 (3.8) | 12.8 (4.7) | 9.2 (3.4) |
| 11 | 0.5 (0.2) | 0.4 (0.1) | 14.5 (7.4) | 10.4 (5.3) | 12.8 (5.7) | 9.2 (4.1) |
| 12 | 0.4 (0.1) | 0.3 (0.1) | 23.8 (5.7) | 17.1 (4.1) | 16.4 (4.5) | 11.8 (3.3) |
| 13 | 0.7 (0.2) | 0.5 (0.1) | 34.9 (6.4) | 25.1 (4.6) | 26.6 (3.7) | 19.1 (2.6) |
| 14 | 0.7 (0.2) | 0.5 (0.1) | 43.1 (5.6) | 30.9 (4.0) | 32.4 (4.1) | 23.3 (2.9) |
| 15 | 0.8 (0.2) | 0.6 (0.1) | 47.9 (7.3) | 34.5 (5.2) | 36.1 (5.2) | 25.9 (3.7) |
| 16 | 1.0 (0.2) | 0.7 (0.1) | 52.2 (8.4) | 37.6 (6.1) | 37.4 (6.0) | 26.9 (4.3) |
| 17 | 1.0 (0.2) | 0.7 (0.1) | 49.0 (7.3) | 35.2 (5.3) | 39.6 (8.7) | 28.4 (6.2) |
| 18 | 0.9 (0.2) | 0.6 (0.1) | 39.1 (14.7) | 28.1 (10.6) | 38.0 (15.7) | 27.3 (11.3) |
| 19 | 0.9 (0.4) | 0.6 (0.3) | 29.3 (13.3) | 21.0 (9.6) | 26.1 (13.0) | 18.7 (9.4) |
| 20 | 0.6 (0.2) | 0.4 (0.1) | 31.7 (9.3) | 22.7 (6.7) | 29.0 (6.2) | 20.8 (4.5) |
| 21 | 0.6 (0.2) | 0.4 (0.1) | 30.9 (7.2) | 22.2 (5.2) | 27.8 (7.9) | 19.9 (5.7) |
| 22 | 0.5 (0.1) | 0.3 (0.1) | 27.3 (9.5) | 19.6 (6.9) | 25.0 (10.8) | 17.9 (7.8) |
| 23 | 0.5 (0.2) | 0.3 (0.1) | 27.2 (8.5) | 19.5 (6.1) | 20.8 (9.3) | 14.9 (6.7) |
| 24 | 0.3 (0.1) | 0.2 (0.1) | 24.5 (6.3) | 17.6 (4.5) | 13.0 (4.6) | 9.3 (3.3) |
| 25 | 0.4 (0.1) | 0.3 (0.1) | 17.8 (4.4) | 12.8 (3.2) | 13.9 (1.5) | 10.0 (1.1) |
| 26 | 0.4 (0.1) | 0.3 (0.1) | | | 10.6 (4.8) | 7.6 (3.5) |
| 27 | 0.5 (0.2) | 0.4 (0.1) | 14.0 (2.9) | 10.1 (2.1) | 7.8 (1.7) | 5.6 (1.2) |
| 28 | 0.4 (0.1) | 0.3 (0.1) | 9.3 (3.2) | 6.7 (2.3) | 5.3 (1.3) | 3.8 (0.9) |
| 29 | 0.4 (0.1) | 0.3 (0.1) | 9.6 (3.3) | 6.9 (2.4) | 5.6 (2.3) | 4.0 (1.6) |
| 30 | 0.5 (0.2) | 0.4 (0.1) | 17.7 (4.6) | 12.7 (3.3) | 12.7 (5.6) | 9.1 (4.0) |
| 31 | 0.6 (0.2) | 0.4 (0.1) | 15.2 (7.6) | 10.9 (5.5) | 16.3 (8.3) | 11.7 (5.9) |
| Mean | 0.7 | 0.5 | 28.5 | 20.5 | 23.3 | 16.7 |
| n | 31 | 30 | 29 | 29 | 30 | 30 |
| SD | 0.2 | 0.2 | 12.6 | 9 | 11.8 | 8.5 |
| Min | 0.3 | 0.2 | 9.3 | 6.7 | 5.3 | 3.8 |
| Max | 1.0 | 0.7 | 52.2 | 37.6 | 42.4 | 30.4 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for April, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.9 (0.2) | 0.7 (0.1) | 13.1 (2.7) | 9.4 (1.9) | 21.0 (7.8) | 15.1 (5.6) |
| 2 | 1.0 (0.2) | 0.7 (0.2) | 16.6 (3.0) | 12.0 (2.2) | 22.1 (5.8) | 15.9 (4.2) |
| 3 | 0.7 (0.3) | 0.5 (0.2) | 10.9 (5.6) | 7.8 (4.1) | 15.2 (7.9) | 10.9 (5.7) |
| 4 | 0.7 (0.2) | 0.5 (0.1) | 11.0 (9.2) | 7.9 (6.6) | 20.0 (9.9) | 14.4 (7.1) |
| 5 | 0.6 (0.2) | 0.4 (0.1) | 5.0 (3.5) | 3.6 (2.5) | 17.8 (11.4) | 12.7 (8.2) |
| 6 | 0.6 (0.2) | 0.4 (0.1) | 2.9 (1.4) | 2.1 (1.0) | 14.2 (6.3) | 10.2 (4.5) |
| 7 | 0.5 (0.1) | 0.4 (0.1) | 9.2 (2.5) | 6.6 (1.8) | 29.9 (5.6) | 21.4 (4.0) |
| 8 | 0.6 (0.2) | 0.5 (0.1) | 11.8 (5.9) | 8.5 (4.2) | 29.8 (10.9) | 21.3 (7.8) |
| 9 | 0.8 (0.3) | 0.5 (0.2) | 9.3 (5.3) | 6.6 (3.8) | 24.4 (12.1) | 17.5 (8.7) |
| 10 | 0.7 (0.2) | 0.5 (0.2) | 7.0 (4.9) | 5.0 (3.5) | 18.9 (10.6) | 13.6 (7.7) |
| 11 | 0.6 (0.2) | 0.4 (0.1) | 3.9 (2.0) | 2.8 (1.4) | 16.1 (6.4) | 11.6 (4.6) |
| 12 | 0.6 (0.2) | 0.4 (0.2) | 8.2 (3.9) | 5.9 (2.8) | 24.5 (9.3) | 17.6 (6.7) |
| 13 | 0.8 (0.1) | 0.6 (0.1) | 8.3 (5.2) | 5.9 (3.7) | 27.3 (8.0) | 19.6 (5.7) |
| 14 | 0.7 (0.2) | 0.5 (0.1) | 5.3 (1.2) | 3.8 (0.8) | 18.6 (8.2) | 13.3 (5.9) |
| 15 | 0.7 (0.2) | 0.5 (0.1) | 7.7 (2.8) | 5.5 (2.0) | 29.0 (8.1) | 20.8 (5.8) |
| 16 | 1.0 (0.2) | 0.7 (0.1) | 10.7 (5.7) | 7.7 (4.1) | 31.9 (14.0) | 22.9 (10.1) |
| 17 | 0.7 (0.2) | 0.5 (0.2) | 9.5 (6.7) | 6.7 (4.8) | 24.8 (16.1) | 17.8 (11.5) |
| 18 | 0.9 (0.2) | 0.6 (0.2) | 6.1 (3.6) | 4.3 (2.6) | 16.1 (9.2) | 11.5 (6.6) |
| 19 | 0.7 (0.2) | 0.5 (0.1) | 13.3 (11.1) | 9.5 (8.0) | 13.4 (4.1) | 9.6 (3.0) |
| 20 | 0.9 (0.1) | 0.7 (0.1) | 21.1 (15.1) | 15.2 (10.9) | 16.5 (6.5) | 11.9 (4.6) |
| 21 | 0.7 (0.2) | 0.5 (0.1) | 17.5 (8.6) | 12.6 (6.2) | 20.3 (10.0) | 14.6 (7.2) |
| 22 | 0.9 (0.3) | 0.6 (0.2) | 26.4 (8.4) | 18.9 (6.0) | 31.0 (9.5) | 22.3 (6.9) |
| 23 | 1.3 (0.3) | 0.9 (0.2) | 27.3 (17.8) | 19.6 (12.8) | 29.0 (17.6) | 20.8 (12.6) |
| 24 | 1.4 (0.2) | 1.0 (0.2) | 24.2 (18.8) | 17.4 (13.5) | 20.6 (12.9) | 14.8 (9.2) |
| 25 | 1.0 (0.2) | 0.7 (0.1) | 12.8 (5.1) | 9.2 (3.7) | 10.4 (1.5) | 7.5 (1.1) |
| 26 | 1.0 (0.3) | 0.7 (0.2) | 15.4 (6.7) | 11.1 (4.8) | 10.0 (2.0) | 7.2 (1.4) |
| 27 | 1.1 (0.2) | 0.8 (0.2) | 17.3 (9.8) | 12.4 (7.1) | 9.9 (3.2) | 7.1 (2.3) |
| 28 | 0.8 (0.2) | 0.5 (0.1) | 18.8 (9.7) | 13.5 (7.0) | 9.2 (3.5) | 6.6 (2.5) |
| 29 | 0.7 (0.2) | 0.5 (0.1) | 22.9 (11.8) | 16.5 (8.5) | 11.7 (3.9) | 8.4 (2.8) |
| 30 | 1.0 (0.2) | 0.7 (0.2) | 34.2 (13.5) | 24.6 (9.7) | 16.4 (4.8) | 11.8 (3.4) |
| Mean | 0.8 | 0.6 | 13.6 | 9.8 | 20.0 | 14.3 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.2 | 0.1 | 7.6 | 5.5 | 6.8 | 4.9 |
| Min | 0.5 | 0.4 | 2.9 | 2.1 | 9.2 | 6.6 |
| Max | 1.4 | 1.0 | 34.2 | 24.6 | 31.9 | 22.9 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for May, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.0 (0.2) | 0.7 (0.1) | 25.1 (14.0) | 18.1 (10.1) | 12.4 (4.3) | 8.9 (3.1) |
| 2 | 1.0 (0.1) | | | | | |
| 3 | 1.2 (0.2) | 0.9 (0.2) | 17.6 (7.3) | 12.7 (5.2) | 9.3 (1.6) | 6.7 (1.1) |
| 4 | 0.9 (0.2) | 0.6 (0.1) | 16.8 (7.1) | 12.1 (5.2) | 8.6 (1.4) | 6.2 (1.0) |
| 5 | 1.1 (0.1) | 0.8 (0.1) | 33.6 (9.8) | 24.2 (7.1) | 15.3 (3.2) | 11.0 (2.3) |
| 6 | 1.2 (0.2) | 0.9 (0.1) | 31.9 (18.7) | 23.0 (13.5) | 15.2 (6.8) | 10.9 (4.9) |
| 7 | 1.1 (0.2) | 0.8 (0.1) | 19.3 (9.8) | 13.9 (7.1) | 10.0 (1.9) | 7.2 (1.3) |
| 8 | 1.1 (0.2) | 0.8 (0.2) | 24.1 (15.6) | 17.5 (11.3) | 11.8 (5.1) | 8.5 (3.7) |
| 9 | 0.9 (0.1) | | | | | |
| 10 | 0.8 (0.2) | 0.6 (0.2) | 31.5 (16.0) | 22.7 (11.5) | 12.7 (4.5) | 9.1 (3.3) |
| 11 | 1.1 (0.1) | 0.8 (0.1) | 58.3 (11.7) | 42.0 (8.4) | 19.4 (5.3) | 13.9 (3.8) |
| 12 | 0.8 (0.1) | 0.6 (0.1) | 49.1 (33.6) | 35.3 (24.2) | 21.4 (12.7) | 15.4 (9.1) |
| 13 | 0.8 (0.2) | 0.6 (0.1) | 39.9 (19.2) | 28.7 (13.9) | 16.1 (7.9) | 11.6 (5.7) |
| 14 | 1.0 (0.2) | 0.7 (0.1) | 30.1 (21.6) | 21.7 (15.6) | 13.2 (7.7) | 9.5 (5.5) |
| 15 | 0.9 (0.2) | 0.6 (0.1) | 17.3 (8.0) | 12.4 (5.7) | 8.9 (1.9) | 6.4 (1.4) |
| 16 | 0.9 (0.1) | 0.6 (0.1) | 12.9 (4.9) | 9.3 (3.5) | 7.7 (1.1) | 5.5 (0.8) |
| 17 | 0.9 (0.1) | 0.7 (0.1) | 32.5 (20.4) | 23.4 (14.7) | 17.3 (9.6) | 12.5 (6.9) |
| 18 | 1.2 (0.2) | 0.9 (0.1) | 59.1 (14.8) | 42.5 (10.7) | 30.5 (9.0) | 21.9 (6.5) |
| 19 | 1.3 (0.2) | 0.9 (0.1) | 60.0 (21.5) | 43.2 (15.5) | 31.7 (13.1) | 22.7 (9.4) |
| 20 | 1.2 (0.2) | 0.9 (0.1) | 46.3 (27.7) | 33.3 (19.9) | 28.2 (15.7) | 20.3 (11.3) |
| 21 | 1.2 (0.3) | 0.8 (0.2) | 35.6 (22.2) | 25.7 (16.0) | 22.2 (12.5) | 15.9 (9.0) |
| 22 | 1.1 (0.3) | 0.8 (0.2) | 26.8 (19.3) | 19.3 (13.9) | 17.1 (10.6) | 12.3 (7.6) |
| 23 | 0.9 (0.2) | 0.7 (0.1) | 21.3 (13.4) | 15.4 (9.7) | 12.9 (5.7) | 9.3 (4.1) |
| 24 | 1.3 (0.2) | 0.9 (0.2) | 19.2 (10.9) | 13.8 (7.9) | 12.6 (5.2) | 9.1 (3.7) |
| 25 | 1.2 (0.3) | 0.9 (0.2) | 19.3 (12.4) | 13.9 (8.9) | 12.8 (5.4) | 9.2 (3.9) |
| 26 | 1.2 (0.4) | 0.9 (0.3) | 19.2 (9.8) | 13.9 (7.1) | 12.3 (3.5) | 8.9 (2.5) |
| 27 | 1.1 (0.3) | 0.8 (0.2) | 22.1 (13.7) | 16.0 (9.9) | 13.9 (5.9) | 10.0 (4.2) |
| 28 | 1.2 (0.2) | | | | | |
| 29 | 1.1 (0.2) | 0.8 (0.1) | 14.8 (6.0) | 10.7 (4.3) | 10.4 (2.9) | 7.5 (2.1) |
| 30 | 1.1 (0.5) | 0.8 (0.3) | 20.6 (10.2) | 14.9 (7.4) | 12.3 (5.2) | 8.8 (3.7) |
| 31 | 1.1 (0.5) | 0.8 (0.3) | 20.2 (12.6) | 14.5 (9.1) | 12.0 (6.3) | 8.6 (4.5) |
| Mean | 1.1 | 0.8 | 29.4 | 21.2 | 15.3 | 11 |
| n | 31 | 28 | 28 | 28 | 28 | 28 |
| SD | 0.1 | 0.1 | 13.6 | 9.8 | 6.3 | 4.5 |
| Min | 0.8 | 0.6 | 12.9 | 9.3 | 7.7 | 5.5 |
| Max | 1.3 | 0.9 | 60.0 | 43.2 | 31.7 | 22.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for June, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 1.0 (0.3) | 0.7 (0.2) | 16.1 (9.1) | 11.6 (6.6) | 10.2 (4.5) | 7.3 (3.2) |
| 2 | 1.0 (0.2) | 0.7 (0.2) | 12.1 (7.1) | 8.7 (5.2) | 8.2 (2.4) | 5.9 (1.8) |
| 3 | 0.7 (0.1) | 0.5 (0.1) | 7.4 (1.8) | 5.3 (1.3) | 6.1 (0.8) | 4.4 (0.6) |
| 4 | 0.8 (0.1) | 0.6 (0.1) | 9.3 (3.4) | 6.7 (2.5) | 6.8 (1.7) | 4.9 (1.3) |
| 5 | 0.9 (0.2) | 0.7 (0.1) | 16.2 (8.1) | 11.7 (5.9) | 10.4 (3.9) | 7.5 (2.8) |
| 6 | 1.1 (0.1) | 0.8 (0.1) | 29.1 (11.7) | 21.0 (8.5) | 18.2 (5.5) | 13.1 (4.0) |
| 7 | 1.1 (0.2) | 0.8 (0.1) | 27.0 (15.4) | 19.5 (11.1) | 16.2 (8.9) | 11.6 (6.4) |
| 8 | 1.1 (0.2) | 0.8 (0.1) | 19.8 (13.3) | 14.3 (9.7) | 12.5 (6.1) | 9.0 (4.4) |
| 9 | 0.9 (0.2) | 0.7 (0.1) | 13.1 (5.6) | 9.4 (4.0) | 9.7 (2.7) | 7.0 (2.0) |
| 10 | 1.2 (0.2) | 0.9 (0.2) | 16.5 (10.2) | 11.9 (7.4) | 12.7 (6.0) | 9.2 (4.3) |
| 11 | 1.1 (0.3) | 0.8 (0.2) | 10.4 (4.4) | 7.5 (3.2) | 8.4 (2.7) | 6.0 (2.0) |
| 12 | 1.0 (0.2) | 0.7 (0.2) | 11.7 (4.7) | 8.4 (3.4) | 8.9 (2.0) | 6.4 (1.4) |
| 13 | 1.0 (0.2) | 0.7 (0.2) | 11.0 (5.1) | 8.0 (3.7) | 9.0 (2.3) | 6.5 (1.7) |
| 14 | 0.8 (0.2) | 0.6 (0.2) | 10.8 (3.9) | 7.8 (2.9) | 8.1 (1.9) | 5.8 (1.4) |
| 15 | 1.0 (0.3) | 0.7 (0.2) | 15.3 (8.1) | 11.1 (5.9) | 10.4 (3.4) | 7.5 (2.4) |
| 16 | 1.2 (0.2) | 0.8 (0.1) | 30.4 (11.8) | 22.0 (8.6) | 18.0 (5.9) | 13.0 (4.2) |
| 17 | 1.1 (0.2) | 0.8 (0.1) | 24.5 (13.4) | 17.7 (9.7) | 16.8 (6.5) | 12.1 (4.7) |
| 18 | 1.2 (0.2) | 0.8 (0.1) | 16.1 (9.5) | 11.6 (6.8) | 12.3 (5.1) | 8.9 (3.7) |
| 19 | 0.8 (0.2) | 0.5 (0.1) | 6.5 (0.5) | 4.7 (0.4) | 6.5 (0.4) | 4.7 (0.3) |
| 20 | 0.9 (0.2) | 0.6 (0.1) | 6.2 (0.5) | 4.5 (0.4) | 6.3 (0.4) | 4.6 (0.3) |
| 21 | 0.4 (0.2) | 0.3 (0.1) | 4.0 (0.5) | 2.9 (0.4) | 4.3 (0.5) | 3.1 (0.4) |
| 22 | 0.3 (0.1) | 0.2 (0.1) | 3.3 (0.5) | 2.4 (0.4) | 3.4 (0.3) | 2.4 (0.2) |
| 23 | 0.6 (0.4) | 0.4 (0.3) | 4.0 (0.7) | 2.9 (0.5) | 4.0 (0.7) | 2.9 (0.5) |
| 24 | 0.5 (0.2) | 0.3 (0.2) | 4.3 (0.7) | 3.1 (0.5) | 4.1 (0.4) | 2.9 (0.3) |
| 25 | 0.5 (0.2) | 0.3 (0.2) | 4.9 (0.6) | 3.5 (0.4) | 4.4 (0.4) | 3.1 (0.3) |
| 26 | 0.7 (0.3) | 0.5 (0.2) | 4.6 (0.7) | 3.3 (0.5) | 4.3 (0.4) | 3.1 (0.3) |
| 27 | 0.5 (0.1) | 0.3 (0.1) | 4.0 (0.7) | 2.9 (0.5) | 3.8 (0.4) | 2.7 (0.3) |
| 28 | 0.3 (0.1) | 0.2 (0.1) | 4.1 (0.5) | 3.0 (0.4) | 3.7 (0.4) | 2.6 (0.3) |
| 29 | 0.2 (0.1) | 0.1 (0.1) | 3.0 (0.4) | 2.1 (0.3) | 2.8 (0.2) | 2.0 (0.1) |
| 30 | 0.7 (0.7) | 0.5 (0.5) | 3.7 (0.7) | 2.7 (0.5) | 3.3 (0.6) | 2.4 (0.5) |
| Mean | 0.8 | 0.6 | 11.6 | 8.4 | 8.4 | 6.1 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.3 | 0.2 | 8 | 5.7 | 4.5 | 3.3 |
| Min | 0.2 | 0.1 | 3.0 | 2.1 | 2.8 | 2.0 |
| Max | 1.2 | 0.9 | 30.4 | 22.0 | 18.2 | 13.1 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for July, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.3 (0.4) | 0.2 (0.3) | 3.0 (0.4) | 2.1 (0.3) | 2.6 (0.4) | 1.9 (0.3) |
| 2 | 0.1 (0.1) | 0.1 (0.1) | 2.5 (0.4) | 1.8 (0.3) | 2.3 (0.2) | 1.6 (0.1) |
| 3 | 0.0 (0.1) | 0.0 (0.1) | 2.5 (0.6) | 1.8 (0.4) | 2.1 (0.2) | 1.5 (0.1) |
| 4 | 0.1 (0.1) | 0.1 (0.1) | 3.5 (1.1) | 2.5 (0.8) | 2.8 (0.7) | 2.0 (0.5) |
| 5 | 0.2 (0.1) | 0.2 (0.1) | 3.0 (0.3) | 2.2 (0.2) | 2.4 (0.2) | 1.7 (0.1) |
| 6 | 0.2 (0.1) | 0.2 (0.1) | 4.4 (0.7) | 3.2 (0.5) | 3.3 (0.5) | 2.3 (0.4) |
| 7 | 0.5 (0.2) | 0.3 (0.2) | 5.4 (0.8) | 3.9 (0.6) | 4.5 (0.4) | 3.2 (0.3) |
| 8 | 0.5 (0.1) | 0.4 (0.1) | 6.0 (0.7) | 4.3 (0.5) | 5.0 (0.4) | 3.6 (0.3) |
| 9 | 0.4 (0.1) | 0.3 (0.1) | 4.4 (0.6) | 3.2 (0.4) | 3.6 (0.2) | 2.6 (0.2) |
| 10 | 0.2 (0.1) | 0.2 (0.1) | 4.8 (0.9) | 3.4 (0.6) | 3.8 (0.2) | 2.7 (0.1) |
| 11 | 0.3 (0.1) | 0.2 (0.1) | 6.2 (1.4) | 4.4 (1.0) | 4.3 (0.7) | 3.1 (0.5) |
| 12 | 0.4 (0.2) | 0.3 (0.1) | 5.0 (0.4) | 3.6 (0.3) | 4.1 (0.3) | 2.9 (0.3) |
| 13 | 0.3 (0.1) | 0.2 (0.1) | 4.0 (0.5) | 2.9 (0.3) | 3.5 (0.3) | 2.5 (0.2) |
| 14 | 0.3 (0.1) | 0.2 (0.1) | 4.8 (0.7) | 3.5 (0.5) | 4.2 (0.2) | 3.0 (0.2) |
| 15 | 0.4 (0.1) | 0.3 (0.1) | 5.4 (1.4) | 3.9 (1.0) | 4.8 (1.7) | 3.4 (1.2) |
| 16 | 0.5 (0.1) | 0.3 (0.1) | 4.2 (0.5) | 3.0 (0.3) | 3.6 (0.3) | 2.6 (0.2) |
| 17 | 0.6 (0.1) | 0.4 (0.1) | 4.7 (0.6) | 3.4 (0.4) | 4.1 (0.4) | 3.0 (0.3) |
| 18 | 0.4 (0.2) | 0.3 (0.1) | 4.4 (0.5) | 3.2 (0.4) | 3.8 (0.3) | 2.7 (0.2) |
| 19 | 0.4 (0.2) | 0.3 (0.2) | 5.7 (0.6) | 4.1 (0.4) | 4.4 (0.2) | 3.1 (0.2) |
| 20 | 0.5 (0.1) | 0.4 (0.1) | 4.6 (0.6) | 3.3 (0.4) | 3.5 (0.4) | 2.5 (0.3) |
| 21 | 0.7 (0.2) | 0.5 (0.2) | 7.2 (1.2) | 5.2 (0.8) | 5.6 (0.4) | 4.0 (0.3) |
| 22 | 1.0 (0.4) | 0.7 (0.3) | 4.1 (2.4) | 3.0 (1.8) | 5.9 (1.8) | 4.3 (1.3) |
| 23 | 0.3 (0.1) | 0.3 (0.1) | 2.3 (1.5) | 1.7 (1.1) | 2.8 (1.0) | 2.0 (0.7) |
| 24 | 0.1 (0.1) | 0.1 (0.1) | 1.2 (0.1) | 0.9 (0.1) | 1.3 (0.1) | 0.9 (0.1) |
| 25 | 0.1 (0.1) | 0.0 (0.1) | 1.6 (0.4) | 1.2 (0.3) | 1.5 (0.4) | 1.1 (0.3) |
| 26 | 0.3 (0.1) | 0.2 (0.1) | 3.2 (0.9) | 2.3 (0.6) | 2.6 (0.7) | 1.9 (0.5) |
| 27 | 0.5 (0.2) | 0.4 (0.1) | 4.2 (0.6) | 3.1 (0.4) | 3.8 (0.5) | 2.7 (0.4) |
| 28 | 0.6 (0.1) | 0.5 (0.1) | 5.6 (1.2) | 4.0 (0.8) | 4.9 (1.1) | 3.5 (0.8) |
| 29 | 0.7 (0.1) | 0.5 (0.1) | 5.3 (1.3) | 3.8 (0.9) | 4.9 (1.0) | 3.5 (0.7) |
| 30 | 0.7 (0.1) | 0.5 (0.1) | 5.6 (0.3) | 4.1 (0.2) | 5.2 (0.3) | 3.4 (0.2) |
| 31 | 0.6 (0.1) | 0.4 (0.1) | 4.8 (0.3) | 3.5 (0.2) | 4.4 (0.2) | 2.8 (0.1) |
| Mean | 0.4 | 0.3 | 4.3 | 3.1 | 3.7 | 2.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.2 | 0.2 | 1.4 | 1 | 1.2 | 0.8 |
| Min | 0.0 | 0.0 | 1.2 | 0.9 | 1.3 | 0.9 |
| Max | 1.0 | 0.7 | 7.2 | 5.2 | 5.9 | 4.3 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for August, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.7 (0.2) | 0.5 (0.2) | 5.1 (0.5) | 3.7 (0.4) | 5.0 (0.7) | 3.2 (0.4) |
| 2 | 0.8 (0.1) | 0.6 (0.1) | 5.6 (0.2) | 4.1 (0.2) | 5.4 (0.3) | 3.4 (0.2) |
| 3 | 0.6 (0.2) | 0.5 (0.1) | 5.8 (0.5) | 4.2 (0.3) | 5.4 (0.4) | 3.5 (0.3) |
| 4 | 0.7 (0.1) | 0.5 (0.1) | 5.8 (0.4) | 4.2 (0.3) | 5.1 (0.3) | 3.2 (0.2) |
| 5 | 0.7 (0.1) | 0.5 (0.1) | 5.7 (0.4) | 4.1 (0.3) | 4.9 (0.4) | 3.1 (0.2) |
| 6 | 0.4 (0.1) | 0.3 (0.1) | 4.3 (0.3) | 3.1 (0.2) | 3.8 (0.5) | 2.6 (0.3) |
| 7 | 0.6 (0.3) | 0.4 (0.2) | 5.3 (0.8) | 3.9 (0.6) | 5.3 (0.4) | 3.8 (0.3) |
| 8 | 0.7 (0.2) | 0.5 (0.1) | 4.9 (0.4) | 3.5 (0.3) | 5.2 (0.5) | 3.8 (0.3) |
| 9 | 0.7 (0.2) | 0.5 (0.1) | 5.3 (0.7) | 3.9 (0.5) | 5.1 (0.9) | 3.7 (0.6) |
| 10 | 0.6 (0.2) | 0.5 (0.1) | 5.0 (0.4) | 3.6 (0.3) | 4.7 (0.4) | 3.4 (0.3) |
| 11 | 0.6 (0.2) | 0.4 (0.2) | 4.2 (0.5) | 3.0 (0.4) | 3.9 (0.5) | 2.8 (0.4) |
| 12 | 0.4 (0.1) | 0.3 (0.1) | 3.6 (0.4) | 2.6 (0.3) | 3.3 (0.2) | 2.4 (0.2) |
| 13 | 0.5 (0.1) | 0.4 (0.1) | 4.1 (0.4) | 2.9 (0.3) | 4.1 (0.6) | 3.0 (0.5) |
| 14 | 0.6 (0.1) | 0.4 (0.1) | 4.5 (0.3) | 3.3 (0.2) | 4.6 (0.4) | 3.3 (0.3) |
| 15 | 1.0 (0.6) | 0.8 (0.4) | 5.7 (0.5) | 4.1 (0.4) | 5.8 (0.9) | 4.2 (0.6) |
| 16 | 1.6 (0.7) | 1.2 (0.5) | 6.4 (0.7) | 4.6 (0.5) | 6.6 (0.7) | 4.7 (0.5) |
| 17 | 0.9 (0.6) | 0.7 (0.4) | | | | |
| 18 | 0.8 (0.1) | 0.6 (0.1) | | | | |
| 19 | 0.8 (0.1) | 0.5 (0.1) | 5.4 (0.3) | 3.9 (0.2) | 5.7 (0.5) | 4.1 (0.3) |
| 20 | 0.6 (0.1) | 0.4 (0.1) | 4.9 (0.6) | | 5.3 (0.6) | 3.9 (0.4) |
| 21 | 0.8 (0.2) | 0.6 (0.1) | 4.7 (0.2) | 3.4 (0.1) | 5.1 (0.3) | 3.7 (0.2) |
| 22 | 0.7 (0.2) | 0.5 (0.2) | 4.4 (0.5) | 3.2 (0.4) | 4.8 (0.5) | 3.5 (0.4) |
| 23 | 0.7 (0.1) | 0.5 (0.1) | 4.7 (0.4) | 3.4 (0.3) | 5.1 (0.4) | 3.7 (0.3) |
| 24 | 0.6 (0.2) | 0.4 (0.1) | 5.3 (0.4) | 3.8 (0.3) | 5.5 (0.5) | 4.0 (0.4) |
| 25 | 1.3 (0.8) | 0.9 (0.6) | 5.2 (0.4) | 3.7 (0.3) | 5.8 (0.9) | 4.2 (0.6) |
| 26 | 1.0 (0.4) | 0.7 (0.3) | 5.2 (0.3) | 3.8 (0.2) | 5.9 (0.6) | 4.3 (0.5) |
| 27 | 1.1 (0.3) | 0.8 (0.2) | 4.8 (0.5) | 3.5 (0.3) | 5.3 (0.7) | 3.8 (0.5) |
| 28 | 1.0 (0.3) | 0.7 (0.2) | 4.4 (0.4) | 3.2 (0.3) | 4.9 (0.4) | 3.5 (0.3) |
| 29 | 0.6 (0.2) | 0.4 (0.1) | 4.3 (0.4) | 3.1 (0.3) | 4.6 (0.5) | 3.3 (0.4) |
| 30 | 0.9 (0.4) | 0.7 (0.3) | 3.9 (0.3) | 2.8 (0.2) | 4.3 (0.4) | 3.1 (0.3) |
| 31 | 0.6 (0.3) | 0.5 (0.2) | 4.2 (0.8) | 3.0 (0.6) | 5.3 (0.8) | 3.8 (0.6) |
| Mean | 0.8 | 0.5 | 4.9 | 3.5 | 5.0 | 3.6 |
| n | 31 | 31 | 29 | 28 | 29 | 29 |
| SD | 0.3 | 0.2 | 0.7 | 0.5 | 0.7 | 0.5 |
| Min | 0.4 | 0.3 | 3.6 | 2.6 | 3.3 | 2.4 |
| Max | 1.6 | 1.2 | 6.4 | 4.6 | 6.6 | 4.7 |

**Table E8. Daily means (SD) of NH3 concentrations at Site NC2B for September, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ | ppm | mg·dsm$^{-3}$ |
| 1 | 0.5 (0.1) | 0.4 (0.1) | 6.3 (2.3) | 4.5 (1.7) | 5.8 (1.7) | 4.2 (1.2) |
| 2 | 0.4 (0.1) | 0.3 (0.1) | 4.6 (1.5) | 3.3 (1.1) | 4.6 (1.4) | 3.3 (1.0) |
| 3 | 0.4 (0.1) | 0.3 (0.1) | 3.8 (0.6) | 2.8 (0.4) | 4.3 (0.7) | 3.1 (0.5) |
| 4 | 0.3 (0.1) | 0.2 (0.1) | 4.4 (0.8) | 3.1 (0.6) | 4.6 (0.9) | 3.3 (0.7) |
| 5 | 0.5 (0.2) | 0.4 (0.1) | 5.2 (0.7) | 3.8 (0.5) | 5.4 (0.7) | 3.9 (0.5) |
| 6 | 0.5 (0.2) | 0.3 (0.1) | 3.9 (0.7) | 2.8 (0.5) | 4.3 (0.3) | 3.1 (0.2) |
| 7 | 0.6 (0.2) | 0.4 (0.1) | 4.0 (0.5) | 2.9 (0.4) | 4.1 (0.3) | 3.0 (0.2) |
| 8 | 0.5 (0.1) | 0.4 (0.1) | 3.9 (0.4) | 2.8 (0.3) | 4.5 (0.2) | 3.3 (0.2) |
| 9 | 0.5 (0.1) | 0.3 (0.1) | 5.5 (1.0) | 3.9 (0.7) | 5.5 (0.7) | 3.9 (0.5) |
| 10 | 0.6 (0.1) | 0.4 (0.1) | 6.7 (2.5) | 4.8 (1.8) | 6.7 (1.7) | 4.8 (1.2) |
| 11 | 0.8 (0.3) | 0.6 (0.2) | 10.6 (3.9) | 7.6 (2.8) | 9.9 (3.4) | 7.1 (2.5) |
| 12 | 0.9 (0.2) | 0.6 (0.1) | 9.7 (3.7) | 6.9 (2.6) | 10.5 (4.6) | 7.5 (3.3) |
| 13 | 0.6 (0.2) | 0.5 (0.1) | 9.0 (3.8) | 6.5 (2.7) | 9.4 (4.2) | 6.8 (3.0) |
| 14 | 0.5 (0.1) | 0.4 (0.1) | 8.7 (3.7) | 6.3 (2.7) | 9.3 (4.1) | 6.7 (3.0) |
| 15 | 0.9 (0.3) | 0.7 (0.2) | 7.4 (3.0) | 5.3 (2.2) | 8.6 (2.9) | 6.2 (2.1) |
| 16 | 0.6 (0.2) | 0.4 (0.1) | 5.0 (0.7) | 3.6 (0.5) | 5.5 (1.0) | 3.9 (0.7) |
| 17 | 0.6 (0.1) | 0.4 (0.1) | 7.2 (0.9) | 5.2 (0.7) | 7.3 (1.2) | 5.3 (0.8) |
| 18 | 0.7 (0.2) | 0.5 (0.1) | 9.7 (3.5) | 7.0 (2.5) | 9.0 (1.9) | 6.5 (1.4) |
| 19 | 0.8 (0.1) | 0.6 (0.1) | 12.0 (5.0) | 8.6 (3.6) | 12.0 (4.4) | 8.6 (3.1) |
| 20 | 0.9 (0.1) | 0.6 (0.1) | 12.3 (5.4) | 8.8 (3.9) | 13.0 (5.6) | 9.4 (4.1) |
| 21 | 0.8 (0.1) | 0.6 (0.1) | 11.8 (6.0) | 8.5 (4.3) | 13.7 (6.8) | 9.9 (4.9) |
| 22 | 1.0 (0.2) | 0.7 (0.1) | 7.0 (0.7) | 5.1 (0.5) | 7.8 (0.8) | 5.6 (0.6) |
| 23 | 1.0 (0.2) | 0.7 (0.1) | 6.4 (0.7) | 4.6 (0.5) | 7.1 (0.6) | 5.1 (0.5) |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| Mean | 0.6 | 0.5 | 7.2 | 5.2 | 7.5 | 5.4 |
| n | 23 | 23 | 23 | 23 | 23 | 23 |
| SD | 0.2 | 0.1 | 2.7 | 2 | 2.9 | 2.1 |
| Min | 0.3 | 0.2 | 3.8 | 2.8 | 4.1 | 3.0 |
| Max | 1.0 | 0.7 | 12.3 | 8.8 | 13.7 | 9.9 |

## Table E9. NH3 emissions.

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for September, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | 52.7 (27.5) | 16.7 (8.7) | 572 (299) | 192 (100) |
| 26 | | | | | 51.7 (24.7) | 16.4 (7.8) | 562 (268) | 188 (90) |
| 27 | | | | | 51.4 (21.2) | 16.3 (6.8) | 558 (231) | 187 (77) |
| 28 | | | | | 37.7 (13.5) | 12.0 (4.3) | 410 (147) | 137 (49) |
| 29 | | | | | 26.4 (13.0) | 8.4 (4.1) | 287 (141) | 96 (47) |
| 30 | | | | | 29.5 (15.6) | 9.4 (5.0) | 321 (170) | 107 (57) |
| Mean | | | | | 41.6 | 13.2 | 452 | 151 |
| n | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 |
| SD | | | | | 10.9 | 3.5 | 118 | 40 |
| Min | | | | | 26.4 | 8.4 | 287 | 96 |
| Max | | | | | 52.7 | 16.7 | 572 | 192 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for October, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 32.5 (17.0) | 10.3 (5.4) | 354 (184) | 118 (62) |
| 2 | | | | | 37.4 (18.2) | 11.9 (5.8) | 406 (197) | 136 (66) |
| 3 | | | | | 49.9 (20.3) | 15.8 (6.4) | 542 (220) | 182 (74) |
| 4 | 45.4 (15.3) | 14.4 (4.9) | 476 (161) | 146 (49) | 57.4 (13.8) | 18.2 (4.4) | 623 (150) | 209 (50) |
| 5 | 46.0 (15.0) | 14.6 (4.8) | 483 (158) | 148 (48) | 50.7 (12.3) | 16.1 (3.9) | 551 (133) | 184 (45) |
| 6 | 56.7 (18.2) | 18.0 (5.8) | 595 (191) | 183 (59) | 61.7 (18.4) | 19.6 (5.8) | 671 (200) | 225 (67) |
| 7 | 60.7 (28.9) | 19.3 (9.2) | 637 (303) | 196 (93) | 65.2 (28.6) | 20.7 (9.1) | 709 (311) | 237 (104) |
| 8 | 64.6 (26.6) | 20.5 (8.5) | 678 (279) | 208 (86) | 70.1 (26.0) | 22.3 (8.3) | 762 (283) | 255 (95) |
| 9 | 60.0 (21.2) | 19.1 (6.7) | 630 (223) | 193 (68) | 61.2 (16.3) | 19.4 (5.2) | 666 (177) | 223 (59) |
| 10 | 37.1 (14.5) | 11.8 (4.6) | 390 (152) | 119 (47) | 39.4 (12.5) | 12.5 (4.0) | 429 (136) | 144 (46) |
| 11 | 20.2 (8.9) | 6.4 (2.8) | 212 (94) | 65 (29) | 18.8 (7.9) | 6.0 (2.5) | 204 (86) | 68 (29) |
| 12 | 26.7 (12.8) | 8.5 (4.1) | 280 (135) | 86 (41) | 24.1 (10.8) | 7.6 (3.4) | 262 (117) | 88 (39) |
| 13 | 26.5 (13.2) | 8.4 (4.2) | 279 (138) | 85 (42) | 24.5 (11.1) | 7.8 (3.5) | 266 (121) | 89 (40) |
| 14 | 31.0 (16.1) | 9.8 (5.1) | 325 (169) | 100 (52) | 31.2 (16.6) | 9.9 (5.3) | 339 (180) | 114 (60) |
| 15 | 37.7 (22.9) | 12.0 (7.3) | 395 (241) | 121 (74) | 36.9 (20.4) | 11.7 (6.5) | 401 (221) | 134 (74) |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 53.6 (23.6) | 17.0 (7.5) | 563 (248) | 172 (76) | 56.1 (20.4) | 17.8 (6.5) | 610 (222) | 204 (74) |
| 19 | 78.3 (7.4) | 24.9 (2.4) | 822 (78) | 252 (24) | 75.6 (4.8) | 24.0 (1.5) | 822 (52) | 275 (18) |
| 20 | 42.4 (21.9) | 13.5 (7.0) | 445 (230) | 136 (70) | 39.8 (17.0) | 12.6 (5.4) | 433 (185) | 145 (62) |
| 21 | 45.7 (27.0) | 14.5 (8.6) | 479 (283) | 147 (87) | 42.9 (22.7) | 13.6 (7.2) | 466 (247) | 156 (83) |
| 22 | 52.5 (28.7) | 16.7 (9.1) | 551 (301) | 169 (92) | 49.0 (24.1) | 15.5 (7.7) | 533 (262) | 178 (88) |
| 23 | 68.9 (24.6) | 21.9 (7.8) | 723 (258) | 221 (79) | 59.8 (20.7) | 19.0 (6.6) | 651 (225) | 218 (75) |
| 24 | 58.1 (21.1) | 18.4 (6.7) | 609 (221) | 186 (68) | 55.2 (16.6) | 17.5 (5.3) | 601 (181) | 201 (60) |
| 25 | 37.9 (5.7) | 12.0 (1.8) | 398 (59) | 122 (18) | 34.1 (6.4) | 10.8 (2.0) | 371 (69) | 124 (23) |
| 26 | 68.3 (18.3) | 21.7 (5.8) | 716 (192) | 219 (59) | 77.0 (29.6) | 24.4 (9.4) | 837 (322) | 280 (108) |
| 27 | 55.1 (20.7) | 17.5 (6.6) | 578 (217) | 177 (67) | 52.9 (19.9) | 16.8 (6.3) | 576 (217) | 193 (72) |
| 28 | 50.8 (18.0) | 16.1 (5.7) | 533 (189) | 163 (58) | 50.0 (21.0) | 15.9 (6.7) | 545 (228) | 182 (76) |
| 29 | 52.1 (18.6) | 16.6 (5.9) | 547 (195) | 167 (60) | 52.7 (21.0) | 16.7 (6.7) | 573 (229) | 192 (77) |
| 30 | 53.4 (18.8) | 16.9 (6.0) | 560 (198) | 171 (60) | 52.9 (19.7) | 16.8 (6.3) | 576 (215) | 193 (72) |
| 31 | 67.3 (31.3) | 21.4 (9.9) | 706 (328) | 216 (100) | 66.4 (30.2) | 21.1 (9.6) | 723 (328) | 242 (110) |
| Mean | 49.9 | 15.8 | 524 | 160 | 49.1 | 15.6 | 535 | 179 |
| n | 26 | 26 | 26 | 26 | 29 | 29 | 29 | 29 |
| SD | 14.3 | 4.5 | 150 | 46 | 15.1 | 4.8 | 164 | 55 |
| Min | 20.2 | 6.4 | 212 | 65 | 18.8 | 6.0 | 204 | 68 |
| Max | 78.3 | 24.9 | 822 | 252 | 77.0 | 24.4 | 837 | 280 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for November, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 77.5 (48.2) | 24.6 (15.3) | 813 (505) | 248 (154) | 82.5 (49.3) | 26.2 (15.6) | 898 (536) | 300 (179) |
| 2 | 51.9 (21.4) | 16.5 (6.8) | 545 (225) | 166 (69) | 42.4 (22.8) | 13.5 (7.2) | 462 (248) | 154 (83) |
| 3 | 60.5 (24.0) | 19.2 (7.6) | 635 (252) | 194 (77) | 54.7 (23.5) | 17.4 (7.5) | 596 (256) | 199 (86) |
| 4 | 60.5 (25.7) | 19.2 (8.2) | 634 (269) | 194 (82) | 58.2 (22.1) | 18.5 (7.0) | 634 (241) | 212 (80) |
| 5 | 62.7 (20.4) | 19.9 (6.5) | 657 (214) | 201 (65) | 64.5 (22.5) | 20.5 (7.1) | 702 (245) | 235 (82) |
| 6 | 70.6 (31.5) | 22.4 (10.0) | 740 (331) | 226 (101) | 73.1 (47.4) | 23.2 (15.0) | 796 (516) | 266 (172) |
| 7 | 63.3 (27.2) | 20.1 (8.6) | 664 (285) | 203 (87) | 62.4 (22.8) | 19.8 (7.2) | 680 (248) | 227 (83) |
| 8 | 65.8 (24.4) | 20.9 (7.7) | 690 (256) | 210 (78) | | | | |
| 9 | 74.7 (35.4) | 23.7 (11.2) | 784 (371) | 239 (113) | | | | |
| 10 | 77.5 (30.7) | 24.6 (9.8) | 813 (322) | 248 (98) | | | | |
| 11 | 72.2 (29.9) | 22.9 (9.5) | 758 (314) | 231 (96) | | | | |
| 12 | 82.2 (32.5) | 26.1 (10.3) | 862 (341) | 263 (104) | | | | |
| 13 | 91.1 (31.8) | 28.9 (10.1) | 956 (333) | 291 (102) | | | | |
| 14 | | | | | | | | |
| 15 | 61.2 (24.8) | 19.4 (7.9) | 642 (260) | 196 (79) | 73.4 (40.6) | 23.3 (12.9) | 800 (442) | 267 (148) |
| 16 | 63.9 (26.6) | 20.3 (8.4) | 670 (279) | 204 (85) | 67.7 (30.3) | 21.5 (9.6) | 738 (330) | 246 (110) |
| 17 | 62.7 (18.6) | 19.9 (5.9) | 658 (195) | 200 (59) | 74.4 (32.4) | 23.6 (10.3) | 811 (353) | 271 (118) |
| 18 | 70.4 (23.7) | 22.3 (7.5) | 738 (249) | 225 (76) | 85.1 (35.2) | 27.0 (11.2) | 927 (384) | 309 (128) |
| 19 | 75.0 (26.9) | 23.8 (8.5) | 786 (282) | 239 (86) | 85.8 (38.6) | 27.2 (12.2) | 934 (420) | 312 (140) |
| 20 | 89.1 (50.5) | 28.3 (16.0) | 934 (529) | 284 (161) | 108.0 (53.7) | 34.4 (17.1) | 1180 (585) | 394 (195) |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | 75.3 (36.6) | 23.9 (11.6) | 789 (384) | 240 (117) | 70.6 (38.3) | 22.4 (12.2) | 769 (418) | 257 (139) |
| 28 | 67.2 (27.7) | 21.3 (8.8) | 705 (290) | 214 (88) | 58.9 (27.0) | 18.7 (8.6) | 642 (295) | 214 (98) |
| 29 | | | | | | | | |
| 30 | 60.8 (21.0) | 19.3 (6.7) | 638 (220) | 194 (67) | 59.7 (25.6) | 18.9 (8.1) | 650 (279) | 217 (93) |
| Mean | 69.8 | 22.2 | 732 | 223 | 70.1 | 22.3 | 764 | 255 |
| n | 22 | 22 | 22 | 22 | 16 | 16 | 16 | 16 |
| SD | 9.6 | 3.1 | 101 | 31 | 15.0 | 4.8 | 163 | 55 |
| Min | 51.9 | 16.5 | 545 | 166 | 42.4 | 13.5 | 462 | 154 |
| Max | 91.1 | 28.9 | 956 | 291 | 108.0 | 34.4 | 1180 | 394 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for December, 2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 62.2 (24.5) | 19.8 (7.8) | 652 (257) | 198 (78) | 58.8 (23.4) | 18.7 (7.4) | 641 (255) | 214 (85) |
| 2 | 66.4 (25.6) | 21.1 (8.1) | 696 (268) | 211 (82) | 77.6 (23.7) | 24.6 (7.5) | 846 (258) | 282 (86) |
| 3 | 76.1 (40.3) | 24.2 (12.8) | 798 (422) | 242 (128) | 76.5 (42.0) | 24.3 (13.3) | 834 (458) | 278 (153) |
| 4 | 56.2 (18.9) | 17.8 (6.0) | 589 (198) | 179 (60) | 54.4 (20.4) | 17.3 (6.5) | 594 (222) | 198 (74) |
| 5 | 60.9 (31.5) | 19.3 (10.0) | 639 (330) | 194 (100) | 63.5 (42.3) | 20.2 (13.4) | 693 (462) | 231 (154) |
| 6 | 53.3 (14.2) | 16.9 (4.5) | 559 (149) | 170 (45) | 61.9 (25.0) | 19.6 (7.9) | 675 (272) | 225 (91) |
| 7 | 57.9 (18.2) | 18.4 (5.8) | 607 (191) | 184 (58) | 58.4 (21.0) | 18.5 (6.7) | 637 (229) | 212 (76) |
| 8 | 82.3 (32.8) | 26.1 (10.4) | 863 (343) | 262 (104) | 89.2 (33.2) | 28.3 (10.5) | 973 (362) | 324 (121) |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 60.1 (18.5) | 19.1 (5.9) | 630 (194) | 191 (59) | 61.3 (27.0) | 19.5 (8.6) | 669 (295) | 223 (98) |
| 12 | 97.0 (47.7) | 30.8 (15.2) | 1020 (500) | 308 (152) | 101.0 (45.2) | 31.9 (14.4) | 1100 (493) | 366 (164) |
| 13 | 68.6 (29.9) | 21.8 (9.5) | 719 (313) | 218 (95) | 69.0 (32.5) | 21.9 (10.3) | 753 (354) | 251 (118) |
| 14 | 57.4 (36.5) | 18.2 (11.6) | 602 (383) | 183 (116) | 60.2 (32.4) | 19.1 (10.3) | 657 (353) | 219 (118) |
| 15 | 55.8 (21.0) | 17.7 (6.7) | 585 (221) | 177 (67) | 51.9 (22.0) | 16.5 (7.0) | 566 (240) | 189 (80) |
| 16 | 65.6 (26.2) | 20.8 (8.3) | 687 (275) | 208 (83) | 58.1 (24.7) | 18.4 (7.8) | 634 (269) | 211 (90) |
| 17 | 60.2 (17.3) | 19.1 (5.5) | 631 (182) | 191 (55) | 48.9 (12.6) | 15.5 (4.0) | 534 (138) | 178 (46) |
| 18 | 56.2 (31.6) | 17.8 (10.0) | 589 (331) | 179 (100) | 48.3 (21.7) | 15.3 (6.9) | 527 (237) | 176 (79) |
| 19 | 68.2 (22.1) | 21.6 (7.0) | 714 (232) | 216 (70) | 59.3 (19.8) | 18.8 (6.3) | 647 (216) | 216 (72) |
| 20 | 77.9 (38.9) | 24.7 (12.3) | 817 (407) | 247 (123) | 71.3 (38.0) | 22.6 (12.0) | 778 (414) | 259 (138) |
| 21 | 90.6 (36.9) | 28.8 (11.7) | 950 (387) | 288 (117) | 83.6 (38.2) | 26.5 (12.1) | 913 (417) | 304 (139) |
| 22 | 101.0 (49.2) | 32.2 (15.6) | 1060 (515) | 322 (156) | 105.0 (55.0) | 33.4 (17.5) | 1150 (600) | 383 (200) |
| 23 | 102.0 (36.0) | 32.4 (11.4) | 1070 (377) | 324 (114) | 114.0 (45.4) | 36.0 (14.4) | 1240 (496) | 412 (165) |
| 24 | 66.8 (33.6) | 21.2 (10.7) | 700 (352) | 212 (106) | 77.9 (41.5) | 24.7 (13.2) | 851 (453) | 283 (151) |
| 25 | 58.9 (28.1) | 18.7 (8.9) | 618 (294) | 187 (89) | 69.5 (31.7) | 22.1 (10.0) | 759 (346) | 252 (115) |
| 26 | 59.5 (27.2) | 18.9 (8.6) | 623 (285) | 189 (86) | 68.6 (32.3) | 21.8 (10.3) | 749 (353) | 249 (117) |
| 27 | 64.2 (30.8) | 20.4 (9.8) | 673 (323) | 204 (98) | 67.6 (29.5) | 21.5 (9.4) | 738 (322) | 246 (107) |
| 28 | 76.1 (37.1) | 24.2 (11.8) | 798 (389) | 241 (118) | 74.3 (38.3) | 23.6 (12.2) | 811 (419) | 270 (139) |
| 29 | 106.0 (42.5) | 33.5 (13.5) | 1110 (445) | 335 (135) | 109.0 (45.1) | 34.7 (14.3) | 1200 (493) | 398 (164) |
| 30 | 77.2 (35.4) | 24.5 (11.2) | 809 (371) | 245 (112) | 80.1 (37.5) | 25.4 (11.9) | 875 (409) | 291 (136) |
| 31 | | | | | | | | |
| Mean | 70.9 | 22.5 | 743 | 225 | 72.1 | 22.9 | 787 | 262 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 15.3 | 4.9 | 160 | 49 | 17.6 | 5.6 | 192 | 64 |
| Min | 53.3 | 16.9 | 559 | 170 | 48.3 | 15.3 | 527 | 176 |
| Max | 106.0 | 33.5 | 1110 | 335 | 114.0 | 36.0 | 1240 | 412 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for January, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | 44.6 (20.2) | 14.2 (6.4) | 468 (211) | 141 (64) | 33.7 (14.5) | 10.7 (4.6) | 368 (158) | 122 (53) |
| 5 | 60.9 (35.7) | 19.3 (11.3) | 639 (374) | 193 (113) | 57.5 (32.7) | 18.2 (10.4) | 628 (357) | 209 (119) |
| 6 | 90.2 (35.5) | 28.6 (11.3) | 945 (372) | 286 (112) | 104.0 (42.9) | 32.9 (13.6) | 1130 (469) | 376 (156) |
| 7 | 96.1 (45.0) | 30.5 (14.3) | 1010 (472) | 304 (142) | 98.4 (42.8) | 31.2 (13.6) | 1080 (468) | 357 (155) |
| 8 | 98.1 (51.2) | 31.2 (16.3) | 1030 (536) | 311 (162) | 109.0 (50.2) | 34.6 (15.9) | 1190 (549) | 396 (182) |
| 9 | 84.1 (37.7) | 26.7 (12.0) | 881 (395) | 266 (119) | 89.4 (44.3) | 28.4 (14.1) | 977 (484) | 325 (161) |
| 10 | 67.6 (37.1) | 21.5 (11.8) | 709 (389) | 214 (117) | 73.2 (27.8) | 23.2 (8.8) | 800 (304) | 266 (101) |
| 11 | 77.4 (25.0) | 24.6 (7.9) | 811 (262) | 245 (79) | 84.7 (27.1) | 26.9 (8.6) | 926 (296) | 308 (98) |
| 12 | 56.2 (29.2) | 17.8 (9.3) | 589 (306) | 178 (93) | 54.0 (29.5) | 17.1 (9.4) | 590 (322) | 196 (107) |
| 13 | 53.9 (21.0) | 17.1 (6.7) | 565 (220) | 171 (66) | 52.6 (20.4) | 16.7 (6.5) | 574 (223) | 191 (74) |
| 14 | 51.1 (19.8) | 16.2 (6.3) | 535 (207) | 162 (63) | 49.9 (20.0) | 15.8 (6.4) | 545 (218) | 181 (73) |
| 15 | 45.9 (15.2) | 14.6 (4.8) | 481 (159) | 145 (48) | 43.2 (16.9) | 13.7 (5.4) | 472 (185) | 157 (62) |
| 16 | 51.5 (20.2) | 16.4 (6.4) | 540 (211) | 163 (64) | 47.6 (21.5) | 15.1 (6.8) | 520 (235) | 173 (78) |
| 17 | 63.7 (37.7) | 20.2 (12.0) | 667 (395) | 201 (119) | 56.8 (35.7) | 18.0 (11.3) | 621 (391) | 206 (130) |
| 18 | 70.1 (27.8) | 22.3 (8.8) | 734 (291) | 221 (88) | 65.3 (39.5) | 20.7 (12.5) | 713 (432) | 237 (143) |
| 19 | 71.6 (42.4) | 22.7 (13.5) | 750 (444) | 226 (134) | 71.6 (35.8) | 22.7 (11.4) | 783 (391) | 260 (130) |
| 20 | 48.9 (22.4) | 15.5 (7.1) | 512 (235) | 154 (71) | 50.5 (25.2) | 16.0 (8.0) | 552 (275) | 183 (91) |
| 21 | 39.5 (25.0) | 12.6 (8.0) | 414 (262) | 125 (79) | 43.8 (33.7) | 13.9 (10.7) | 479 (368) | 159 (122) |
| 22 | 55.8 (24.9) | 17.7 (7.9) | 584 (261) | 176 (79) | 52.5 (36.6) | 16.7 (11.6) | 574 (400) | 191 (133) |
| 23 | 76.8 (43.8) | 24.4 (13.9) | 805 (459) | 242 (138) | 77.3 (40.9) | 24.5 (13.0) | 845 (447) | 281 (148) |
| 24 | 62.0 (25.9) | 19.7 (8.2) | 649 (272) | 196 (82) | 66.8 (29.2) | 21.2 (9.3) | 731 (319) | 243 (106) |
| 25 | 58.4 (34.5) | 18.5 (11.0) | 611 (362) | 184 (109) | 62.8 (22.9) | 19.9 (7.3) | 687 (251) | 228 (83) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 64.5 (23.3) | 20.5 (7.4) | 675 (244) | 203 (74) | 71.5 (28.0) | 22.7 (8.9) | 782 (307) | 260 (102) |
| 29 | 83.7 (31.6) | 26.6 (10.0) | 877 (331) | 264 (100) | 84.0 (30.2) | 26.7 (9.6) | 919 (331) | 305 (110) |
| 30 | 81.4 (40.7) | 25.8 (12.9) | 853 (427) | 257 (128) | 82.0 (54.4) | 26.0 (17.3) | 897 (595) | 297 (197) |
| 31 | 65.8 (28.3) | 20.9 (9.0) | 689 (296) | 207 (89) | 62.7 (25.5) | 19.9 (8.1) | 686 (279) | 227 (93) |
| Mean | 66.1 | 21.0 | 693 | 209 | 67.1 | 21.3 | 733 | 244 |
| n | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 15.7 | 5.0 | 165 | 50 | 19.2 | 6.1 | 210 | 70 |
| Min | 39.5 | 12.6 | 414 | 125 | 33.7 | 10.7 | 368 | 122 |
| Max | 98.1 | 31.2 | 1030 | 311 | 109.0 | 34.6 | 1190 | 396 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for February, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 74.3 (27.5) | 23.6 (8.7) | 778 (288) | 234 (87) | 74.1 (45.4) | 23.5 (14.4) | 810 (497) | 269 (165) |
| 2 | 72.1 (28.8) | 22.9 (9.1) | 755 (302) | 227 (91) | 73.5 (27.7) | 23.3 (8.8) | 805 (303) | 267 (101) |
| 3 | 75.6 (26.5) | 24.0 (8.4) | 792 (277) | 238 (83) | 75.8 (27.6) | 24.1 (8.8) | 829 (302) | 275 (100) |
| 4 | 87.8 (46.1) | 27.9 (14.6) | 920 (483) | 277 (145) | 82.7 (42.0) | 26.3 (13.3) | 905 (460) | 300 (152) |
| 5 | 96.4 (46.3) | 30.6 (14.7) | 1010 (485) | 304 (146) | 91.3 (49.2) | 29.0 (15.6) | 999 (538) | 331 (178) |
| 6 | 105.0 (56.2) | 33.3 (17.8) | 1100 (588) | 331 (177) | 92.1 (46.1) | 29.2 (14.6) | 1010 (505) | 334 (167) |
| 7 | 50.9 (27.3) | 16.1 (8.7) | 533 (286) | 160 (86) | 47.3 (20.6) | 15.0 (6.5) | 517 (225) | 172 (75) |
| 8 | | | | | 48.1 (19.6) | 15.3 (6.2) | 527 (215) | 175 (71) |
| 9 | 59.9 (25.0) | 19.0 (7.9) | 627 (262) | 188 (79) | 64.1 (23.6) | 20.4 (7.5) | 702 (259) | 233 (86) |
| 10 | 60.9 (25.0) | 19.3 (7.9) | 638 (261) | 192 (79) | 54.5 (22.2) | 17.3 (7.1) | 597 (243) | 198 (81) |
| 11 | 41.1 (15.7) | 13.0 (5.0) | 430 (164) | 129 (49) | 41.1 (16.1) | 13.0 (5.1) | 450 (176) | 149 (58) |
| 12 | 54.0 (28.5) | 17.1 (9.0) | 565 (298) | 170 (90) | 54.4 (31.9) | 17.3 (10.1) | 596 (349) | 197 (116) |
| 13 | 73.4 (30.5) | 23.3 (9.7) | 769 (319) | 231 (96) | 72.0 (34.4) | 22.9 (10.9) | 789 (377) | 261 (125) |
| 14 | 58.1 (32.5) | 18.4 (10.3) | 608 (340) | 183 (102) | 53.5 (26.7) | 17.0 (8.5) | 586 (292) | 194 (97) |
| 15 | 67.8 (26.6) | 21.5 (8.5) | 710 (279) | 213 (84) | 66.1 (29.3) | 21.0 (9.3) | 724 (321) | 240 (106) |
| 16 | 70.7 (34.2) | 22.5 (10.9) | 741 (358) | 222 (107) | 71.5 (35.2) | 22.7 (11.2) | 782 (386) | 259 (128) |
| 17 | | | | | | | | |
| 18 | 76.4 (31.4) | 24.2 (10.0) | 800 (329) | 240 (99) | 71.4 (24.6) | 22.7 (7.8) | 782 (269) | 259 (89) |
| 19 | 49.6 (23.4) | 15.8 (7.4) | 520 (246) | 156 (74) | 46.4 (15.8) | 14.7 (5.0) | 508 (173) | 168 (58) |
| 20 | 50.5 (20.6) | 16.0 (6.5) | 529 (216) | 159 (65) | 51.4 (19.0) | 16.3 (6.0) | 563 (208) | 186 (69) |
| 21 | 47.0 (23.7) | 14.9 (7.5) | 492 (248) | 148 (74) | 48.8 (24.2) | 15.5 (7.7) | 534 (265) | 177 (88) |
| 22 | 57.9 (30.7) | 18.4 (9.7) | 606 (321) | 182 (96) | 47.7 (15.0) | 15.2 (4.8) | 523 (165) | 173 (55) |
| 23 | 76.6 (30.6) | 24.3 (9.7) | 802 (321) | 240 (96) | 63.6 (20.8) | 20.2 (6.6) | 697 (228) | 231 (76) |
| 24 | 69.6 (28.5) | 22.1 (9.0) | 729 (298) | 218 (89) | 69.3 (21.7) | 22.0 (6.9) | 759 (238) | 251 (79) |
| 25 | 73.4 (42.2) | 23.3 (13.4) | 769 (442) | 230 (132) | 66.6 (30.2) | 21.1 (9.6) | 729 (331) | 241 (110) |
| 26 | 78.5 (30.8) | 24.9 (9.8) | 822 (322) | 246 (97) | 79.5 (35.1) | 25.2 (11.2) | 871 (385) | 288 (127) |
| 27 | 56.5 (23.2) | 17.9 (7.4) | 591 (243) | 177 (73) | 55.5 (24.0) | 17.6 (7.6) | 608 (262) | 201 (87) |
| 28 | 47.1 (17.7) | 15.0 (5.6) | 494 (185) | 148 (56) | 46.9 (17.8) | 14.9 (5.7) | 514 (196) | 170 (65) |
| 29 | 54.1 (23.1) | 17.2 (7.3) | 566 (241) | 170 (72) | 56.4 (26.2) | 17.9 (8.3) | 618 (287) | 204 (95) |
| Mean | 66.1 | 21.0 | 692 | 208 | 63.1 | 20.0 | 690 | 229 |
| n | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 |
| SD | 15.3 | 4.9 | 160 | 48 | 13.9 | 4.4 | 152 | 50 |
| Min | 41.1 | 13.0 | 430 | 129 | 41.1 | 13.0 | 450 | 149 |
| Max | 105.0 | 33.3 | 1100 | 331 | 92.1 | 29.2 | 1010 | 334 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for March, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 58.8 (25.4) | 18.7 (8.1) | 615 (266) | 184 (80) | 64.8 (31.4) | 20.6 (10.0) | 711 (344) | 235 (114) |
| 2 | 50.7 (19.4) | 16.1 (6.2) | 531 (203) | 159 (61) | 52.3 (23.5) | 16.6 (7.5) | 574 (258) | 190 (85) |
| 3 | 63.0 (29.9) | 20.0 (9.5) | 659 (313) | 197 (94) | 63.3 (32.8) | 20.1 (10.4) | 694 (359) | 230 (119) |
| 4 | | | | | | | | |
| 5 | 48.7 (18.8) | 15.5 (6.0) | 510 (197) | 152 (59) | 44.0 (20.8) | 14.0 (6.6) | 482 (228) | 159 (76) |
| 6 | 58.0 (22.8) | 18.4 (7.2) | 608 (238) | 182 (71) | 47.0 (17.9) | 14.9 (5.7) | 515 (196) | 170 (65) |
| 7 | 62.8 (33.0) | 19.9 (10.5) | 658 (345) | 197 (103) | 55.3 (21.6) | 17.5 (6.9) | 606 (237) | 200 (78) |
| 8 | 60.7 (23.8) | 19.3 (7.6) | 635 (249) | 190 (74) | 50.9 (22.1) | 16.1 (7.0) | 557 (242) | 184 (80) |
| 9 | 46.4 (17.9) | 14.7 (5.7) | 486 (188) | 145 (56) | 43.5 (17.6) | 13.8 (5.6) | 477 (193) | 158 (64) |
| 10 | 55.6 (26.3) | 17.7 (8.4) | 583 (276) | 174 (82) | 49.9 (19.0) | 15.8 (6.0) | 547 (209) | 181 (69) |
| 11 | 61.3 (31.3) | 19.5 (9.9) | 642 (328) | 192 (98) | 50.9 (20.2) | 16.2 (6.4) | 558 (222) | 185 (73) |
| 12 | 55.4 (23.5) | 17.6 (7.5) | 580 (246) | 173 (73) | 40.3 (19.3) | 12.8 (6.1) | 442 (212) | 146 (70) |
| 13 | 55.7 (29.4) | 17.7 (9.3) | 583 (307) | 174 (92) | 34.0 (17.6) | 10.8 (5.6) | 373 (193) | 123 (64) |
| 14 | 55.4 (31.2) | 17.6 (9.9) | 580 (326) | 173 (98) | 21.0 (11.2) | 6.7 (3.6) | 231 (123) | 76 (41) |
| 15 | 44.1 (22.0) | 14.0 (7.0) | 462 (230) | 138 (69) | 16.3 (7.3) | 5.2 (2.3) | 179 (80) | 59 (26) |
| 16 | 25.0 (12.6) | 7.9 (4.0) | 261 (131) | 78 (39) | 19.0 (7.4) | 6.0 (2.4) | 208 (81) | 69 (27) |
| 17 | 26.3 (14.1) | 8.4 (4.5) | 276 (148) | 82 (44) | 20.5 (6.5) | 6.5 (2.1) | 225 (72) | 74 (24) |
| 18 | 19.9 (10.8) | 6.3 (3.4) | 208 (113) | 62 (34) | 42.2 (16.9) | 13.4 (5.4) | 463 (185) | 153 (61) |
| 19 | 22.1 (11.6) | 7.0 (3.7) | 231 (122) | 69 (36) | 75.7 (32.7) | 24.0 (10.4) | 831 (359) | 274 (118) |
| 20 | 20.7 (9.9) | 6.6 (3.2) | 217 (104) | 65 (31) | 47.0 (18.6) | 14.9 (5.9) | 516 (204) | 170 (68) |
| 21 | 26.9 (9.5) | 8.6 (3.0) | 282 (100) | 84 (30) | 56.7 (17.7) | 18.0 (5.6) | 622 (194) | 206 (64) |
| 22 | 36.3 (17.0) | 11.5 (5.4) | 379 (178) | 113 (53) | 60.1 (26.8) | 19.1 (8.5) | 659 (294) | 218 (97) |
| 23 | 36.3 (15.5) | 11.5 (4.9) | 380 (163) | 113 (49) | 43.2 (17.4) | 13.7 (5.5) | 474 (191) | 156 (63) |
| 24 | 44.1 (17.6) | 14.0 (5.6) | 462 (185) | 138 (55) | 50.4 (21.9) | 16.0 (7.0) | 553 (240) | 183 (79) |
| 25 | 49.0 (21.2) | 15.6 (6.7) | 513 (222) | 153 (66) | 50.7 (16.1) | 16.1 (5.1) | 556 (177) | 184 (58) |
| 26 | 58.4 (25.3) | 18.5 (8.0) | 611 (265) | 182 (79) | 68.6 (39.2) | 21.8 (12.4) | 753 (430) | 249 (142) |
| 27 | 52.0 (20.6) | 16.5 (6.6) | 544 (216) | 162 (64) | 54.9 (29.5) | 17.4 (9.4) | 602 (323) | 199 (107) |
| 28 | 53.7 (27.6) | 17.1 (8.8) | 562 (289) | 168 (86) | 58.7 (25.4) | 18.6 (8.1) | 644 (278) | 213 (92) |
| 29 | 26.4 (9.2) | 8.4 (2.9) | 277 (97) | 83 (29) | 29.7 (14.9) | 9.4 (4.7) | 326 (163) | 108 (54) |
| 30 | 32.7 (13.3) | 10.4 (4.2) | 342 (139) | 102 (42) | 38.8 (12.8) | 12.3 (4.1) | 426 (140) | 141 (46) |
| 31 | 55.8 (30.0) | 17.7 (9.5) | 584 (314) | 174 (94) | 60.7 (24.4) | 19.3 (7.8) | 666 (268) | 220 (88) |
| Mean | 45.4 | 14.4 | 475 | 142 | 47.0 | 14.9 | 516 | 170 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 14.0 | 4.5 | 147 | 44 | 14.6 | 4.7 | 161 | 53 |
| Min | 19.9 | 6.3 | 208 | 62 | 16.3 | 5.2 | 179 | 59 |
| Max | 63.0 | 20.0 | 659 | 197 | 75.7 | 24.0 | 831 | 274 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for April, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 64.5 (25.3) | 20.5 (8.0) | 675 (265) | 201 (79) | 66.0 (19.1) | 20.9 (6.1) | 724 (210) | 239 (69) |
| 2 | 43.5 (26.9) | 13.8 (8.5) | 455 (281) | 136 (84) | 44.0 (24.0) | 14.0 (7.6) | 483 (264) | 160 (87) |
| 3 | 40.1 (19.8) | 12.7 (6.3) | 420 (207) | 125 (62) | 44.7 (16.4) | 14.2 (5.2) | 491 (180) | 162 (60) |
| 4 | 55.8 (35.8) | 17.7 (11.4) | 584 (375) | 174 (112) | 57.0 (17.3) | 18.1 (5.5) | 627 (190) | 207 (63) |
| 5 | 69.2 (23.8) | 22.0 (7.5) | 724 (249) | 217 (74) | 59.8 (15.1) | 19.0 (4.8) | 657 (166) | 217 (55) |
| 6 | 64.8 (22.3) | 20.6 (7.1) | | | 59.1 (11.4) | 18.8 (3.6) | 649 (125) | 214 (41) |
| 7 | 55.3 (32.0) | 17.6 (10.1) | | | 58.7 (28.9) | 18.6 (9.2) | 645 (318) | 213 (105) |
| 8 | 52.2 (9.1) | 16.6 (2.9) | | | 60.0 (16.1) | 19.0 (5.1) | 660 (177) | 218 (58) |
| 9 | | | | | | | | |
| 10 | 39.1 (21.5) | 12.4 (6.8) | | | 69.8 (38.3) | 22.1 (12.2) | 768 (421) | 253 (139) |
| 11 | 49.7 (33.2) | 15.8 (10.5) | | | | | | |
| 12 | 39.7 (38.5) | 12.6 (12.2) | | | 38.7 (12.5) | 12.3 (4.0) | 426 (137) | 141 (45) |
| 13 | 16.2 (10.3) | 5.1 (3.3) | | | 44.1 (14.7) | 14.0 (4.7) | 485 (162) | 160 (54) |
| 14 | 6.2 (4.7) | 2.0 (1.5) | | | 41.1 (14.6) | 13.1 (4.6) | 453 (161) | 150 (53) |
| 15 | 1.6 (4.3) | 0.5 (1.4) | | | 45.4 (16.3) | 14.4 (5.2) | 501 (180) | 165 (59) |
| 16 | 11.0 (14.3) | 3.5 (4.5) | | | 43.8 (15.5) | 13.9 (4.9) | 483 (171) | 159 (56) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 18.6 (13.2) | 5.9 (4.2) | | | | | | |
| 20 | 11.1 (12.7) | 3.5 (4.0) | | | 34.5 (12.1) | 11.0 (3.8) | 381 (133) | 126 (44) |
| 21 | 7.5 (11.2) | 2.4 (3.6) | | | 44.5 (14.0) | 14.1 (4.5) | 491 (155) | 162 (51) |
| 22 | | | | | | | | |
| 23 | 15.6 (13.9) | 4.9 (4.4) | | | 57.7 (24.4) | 18.3 (7.7) | 637 (269) | 210 (89) |
| 24 | 9.4 (10.0) | 3.0 (3.2) | | | | | | |
| 25 | 13.5 (11.1) | 4.3 (3.5) | | | | | | |
| 26 | 12.9 (8.9) | 4.1 (2.8) | | | | | | |
| 27 | 7.0 (5.7) | 2.2 (1.8) | | | 46.2 (15.2) | 14.7 (4.8) | 511 (168) | 169 (55) |
| 28 | 7.1 (5.8) | 2.3 (1.9) | 72 (60) | 27 (23) | 51.9 (15.4) | 16.5 (4.9) | 573 (170) | 189 (56) |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 29.6 | 9.4 | 488 | 147 | 50.9 | 16.2 | 560 | 185 |
| n | 24 | 24 | 6 | 6 | 19 | 19 | 19 | 19 |
| SD | 22.1 | 7.0 | 216 | 63 | 9.6 | 3.0 | 105 | 35 |
| Min | 1.6 | 0.5 | 72 | 27 | 34.5 | 11.0 | 381 | 126 |
| Max | 69.2 | 22.0 | 724 | 217 | 69.8 | 22.1 | 768 | 253 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for May, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 8.6 (6.6) | 2.7 (2.1) | 88 (67) | 33 (25) | 38.8 (16.2) | 12.3 (5.1) | 431 (179) | 142 (59) |
| 7 | 10.7 (5.6) | 3.4 (1.8) | 110 (58) | 42 (22) | | | | |
| 8 | 15.6 (2.9) | 5.0 (0.9) | 160 (29) | 61 (11) | 28.1 (7.8) | 8.9 (2.5) | 312 (86) | 103 (28) |
| 9 | 22.8 (5.3) | 7.2 (1.7) | 233 (54) | 88 (21) | | | | |
| 10 | 18.8 (9.6) | 6.0 (3.1) | 192 (99) | 73 (37) | 34.5 (15.2) | 11.0 (4.8) | 383 (168) | 126 (56) |
| 11 | 15.9 (8.7) | 5.0 (2.8) | 162 (89) | 61 (34) | 36.7 (10.6) | 11.6 (3.4) | 407 (117) | 134 (39) |
| 12 | 16.1 (6.3) | 5.1 (2.0) | 165 (65) | 62 (24) | 45.1 (11.1) | 14.3 (3.5) | 500 (123) | 165 (41) |
| 13 | 26.4 (12.1) | 8.4 (3.8) | 270 (124) | 102 (47) | 44.9 (14.8) | 14.3 (4.7) | 499 (164) | 165 (54) |
| 14 | 34.4 (12.9) | 10.9 (4.1) | 352 (132) | 133 (50) | 44.4 (15.5) | 14.1 (4.9) | 493 (172) | 163 (57) |
| 15 | 41.7 (10.2) | 13.2 (3.3) | 426 (105) | 161 (40) | | | | |
| 16 | 53.6 (14.7) | 17.0 (4.7) | 548 (150) | 208 (57) | 36.3 (12.6) | 11.5 (4.0) | 404 (140) | 133 (46) |
| 17 | 38.1 (14.3) | 12.1 (4.6) | 389 (147) | 147 (56) | 41.2 (13.5) | 13.1 (4.3) | 458 (150) | 151 (50) |
| 18 | 31.9 (16.2) | 10.1 (5.1) | 326 (166) | 123 (63) | 39.4 (13.5) | 12.5 (4.3) | 438 (150) | 144 (50) |
| 19 | 28.9 (11.0) | 9.2 (3.5) | 296 (113) | 108 (41) | 34.5 (10.8) | 10.9 (3.4) | 384 (121) | 124 (39) |
| 20 | 36.0 (16.3) | 11.4 (5.2) | 369 (167) | 131 (59) | 38.5 (18.7) | 12.2 (5.9) | 428 (208) | 135 (65) |
| 21 | 32.1 (15.5) | 10.2 (4.9) | 328 (159) | 116 (56) | 43.7 (18.4) | 13.9 (5.9) | 486 (205) | 153 (65) |
| 22 | 46.6 (22.9) | 14.8 (7.3) | 477 (234) | 169 (83) | 41.3 (17.3) | 13.1 (5.5) | 460 (193) | 145 (61) |
| 23 | 42.2 (16.0) | 13.4 (5.1) | 432 (164) | 153 (58) | 33.7 (14.2) | 10.7 (4.5) | 375 (158) | 118 (50) |
| 24 | 44.3 (23.9) | 14.1 (7.6) | 453 (245) | 161 (87) | 38.9 (14.0) | 12.3 (4.5) | 433 (156) | 137 (49) |
| 25 | 58.7 (30.0) | 18.6 (9.5) | 601 (307) | 213 (109) | | | | |
| 26 | 73.6 (30.8) | 23.4 (9.8) | 754 (315) | 267 (112) | | | | |
| 27 | 98.8 (9.1) | 31.4 (2.9) | 1010 (93) | 358 (33) | | | | |
| 28 | 60.4 (36.7) | 19.2 (11.7) | 619 (376) | 219 (133) | 25.5 (8.7) | 8.1 (2.8) | 284 (97) | 90 (31) |
| 29 | 68.0 (37.1) | 21.6 (11.8) | 697 (380) | 247 (135) | 40.4 (14.3) | 12.8 (4.6) | 451 (160) | 142 (50) |
| 30 | 84.5 (33.5) | 26.8 (10.7) | 866 (343) | 302 (119) | | | | |
| 31 | 134.0 (16.2) | 42.5 (5.1) | 1370 (166) | 473 (57) | | | | |
| Mean | 43.9 | 13.9 | 450 | 162 | 38.1 | 12.1 | 424 | 137 |
| n | 26 | 26 | 26 | 26 | 18 | 18 | 18 | 18 |
| SD | 28.8 | 9.2 | 295 | 102 | 5.3 | 1.7 | 59 | 20 |
| Min | 8.6 | 2.7 | 88 | 33 | 25.5 | 8.1 | 284 | 90 |
| Max | 134.0 | 42.5 | 1370 | 473 | 45.1 | 14.3 | 500 | 165 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for June, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 140.0 (14.3) | 44.6 (4.5) | 1440 (146) | 497 (51) | 56.0 (22.0) | 17.8 (7.0) | 625 (246) | 197 (77) |
| 2 | 94.7 (12.3) | 30.1 (3.9) | 970 (126) | 335 (44) | 41.7 (19.0) | 13.2 (6.0) | 465 (212) | 147 (67) |
| 3 | 93.1 (25.5) | 29.6 (8.1) | 953 (261) | 329 (90) | 50.4 (18.7) | 16.0 (5.9) | | |
| 4 | 152.0 (24.2) | 48.4 (7.7) | 1560 (248) | 543 (88) | 55.1 (9.1) | 17.5 (2.9) | | |
| 5 | 165.0 (10.7) | 52.2 (3.4) | 1690 (109) | 590 (38) | 45.9 (4.3) | 14.6 (1.4) | | |
| 6 | 148.0 (8.6) | 47.0 (2.7) | 1520 (88) | 531 (31) | 34.3 (5.2) | 10.9 (1.6) | | |
| 7 | 136.0 (10.4) | 43.3 (3.3) | 1400 (107) | 489 (37) | 28.8 (6.8) | 9.2 (2.2) | | |
| 8 | 120.0 (11.7) | 38.1 (3.7) | 1230 (120) | 430 (42) | 25.9 (4.2) | 8.2 (1.3) | | |
| 9 | 117.0 (6.1) | 37.1 (1.9) | 1200 (62) | 419 (22) | 27.1 (5.8) | 8.6 (1.8) | | |
| 10 | 95.4 (7.2) | 30.3 (2.3) | 977 (73) | 342 (26) | 21.8 (5.4) | 6.9 (1.7) | | |
| 11 | 81.9 (4.9) | 26.0 (1.6) | 839 (51) | 299 (16) | 16.8 (2.6) | 5.3 (0.8) | | |
| 12 | 72.5 (5.5) | 23.0 (1.8) | 743 (57) | 269 (21) | 16.6 (2.1) | 5.3 (0.7) | | |
| 13 | 63.3 (4.0) | 20.1 (1.3) | 649 (41) | 235 (15) | 15.5 (3.3) | 4.9 (1.1) | | |
| 14 | 72.3 (7.9) | 23.0 (2.5) | 741 (81) | 269 (29) | 17.3 (4.2) | 5.5 (1.3) | | |
| 15 | 80.5 (5.0) | 25.6 (1.6) | 825 (52) | 299 (19) | 15.6 (3.3) | 5.0 (1.0) | | |
| 16 | 90.3 (8.1) | 28.7 (2.6) | 926 (83) | 336 (30) | 20.9 (4.7) | 6.6 (1.5) | | |
| 17 | 82.1 (7.2) | 26.1 (2.3) | 841 (74) | 305 (27) | 15.0 (2.9) | 4.8 (0.9) | | |
| 18 | | | | | 9.5 (7.1) | 3.0 (2.3) | | |
| 19 | | | | | 9.2 (4.3) | 2.9 (1.4) | | |
| 20 | 65.0 (8.1) | 20.6 (2.6) | 666 (83) | 233 (29) | 12.9 (4.0) | 4.1 (1.3) | | |
| 21 | 76.3 (4.9) | 24.2 (1.6) | 782 (50) | 274 (18) | 18.1 (2.5) | 5.7 (0.8) | | |
| 22 | 90.8 (7.1) | 28.8 (2.2) | 931 (73) | 326 (25) | 21.4 (3.6) | 6.8 (1.1) | | |
| 23 | 99.1 (5.0) | 31.5 (1.6) | 1020 (51) | 354 (17) | 25.7 (2.3) | 8.2 (0.7) | 264 (23) | 108 (10) |
| 24 | | | | | | | | |
| 25 | 91.8 (14.1) | 29.1 (4.5) | 941 (145) | 326 (50) | 30.7 (8.6) | 9.8 (2.7) | 315 (88) | 130 (36) |
| 26 | 104.0 (6.1) | 33.1 (1.9) | 1070 (63) | 370 (22) | 35.7 (3.8) | 11.3 (1.2) | 366 (39) | 151 (16) |
| 27 | 85.9 (8.1) | 27.3 (2.6) | 881 (83) | 305 (29) | 32.5 (3.9) | 10.3 (1.2) | 334 (40) | 138 (16) |
| 28 | 82.1 (8.1) | 26.1 (2.6) | 842 (83) | 292 (29) | 34.8 (4.0) | 11.1 (1.3) | 358 (41) | 148 (17) |
| 29 | 75.6 (10.2) | 24.0 (3.2) | 776 (104) | 269 (36) | 32.7 (4.9) | 10.4 (1.6) | 336 (50) | 139 (21) |
| 30 | 65.4 (3.7) | 20.8 (1.2) | 671 (37) | 233 (13) | 30.9 (2.6) | 9.8 (0.8) | 318 (27) | 127 (11) |
| Mean | 97.8 | 31.1 | 1000 | 352 | 27.5 | 8.7 | 376 | 143 |
| n | 27 | 27 | 27 | 27 | 29 | 29 | 9 | 9 |
| SD | 28.0 | 8.9 | 286 | 98 | 12.8 | 4.1 | 102 | 23 |
| Min | 63.3 | 20.1 | 649 | 233 | 9.2 | 2.9 | 264 | 108 |
| Max | 165.0 | 52.2 | 1690 | 590 | 56.0 | 17.8 | 625 | 197 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for July, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 54.8 (20.5) | 17.4 (6.5) | 562 (210) | 196 (73) | 28.3 (10.1) | 9.0 (3.2) | 291 (104) | 113 (40) |
| 2 | 49.9 (12.1) | 15.8 (3.9) | 511 (125) | 178 (43) | 24.8 (4.8) | 7.9 (1.5) | 255 (50) | 99 (19) |
| 3 | 67.5 (8.8) | 21.4 (2.8) | 692 (90) | 241 (32) | 31.1 (2.9) | 9.9 (0.9) | 321 (30) | 125 (12) |
| 4 | 83.6 (10.8) | 26.5 (3.4) | 858 (111) | 299 (39) | 38.2 (7.6) | 12.1 (2.4) | 394 (78) | 153 (30) |
| 5 | 78.2 (6.1) | 24.8 (2.0) | 802 (63) | 280 (22) | 39.4 (7.6) | 12.5 (2.4) | 406 (79) | 157 (31) |
| 6 | 85.2 (6.6) | 27.0 (2.1) | 874 (68) | 302 (23) | 48.1 (4.4) | 15.3 (1.4) | 495 (45) | 188 (17) |
| 7 | 92.0 (26.7) | 29.2 (8.5) | 944 (274) | 323 (94) | 53.8 (17.6) | 17.1 (5.6) | 554 (182) | 206 (68) |
| 8 | 101.0 (38.0) | 31.9 (12.1) | 1030 (390) | 353 (133) | 61.9 (26.4) | 19.6 (8.4) | 637 (272) | 237 (101) |
| 9 | 119.0 (14.1) | 37.7 (4.5) | 1220 (144) | 417 (49) | 70.2 (9.1) | 22.3 (2.9) | 723 (94) | 268 (35) |
| 10 | 127.0 (4.0) | 40.3 (1.3) | 1300 (41) | 446 (14) | 79.3 (5.4) | 25.2 (1.7) | 817 (56) | 303 (21) |
| 11 | 128.0 (6.2) | 40.8 (2.0) | 1320 (64) | 451 (22) | 84.0 (7.6) | 26.7 (2.4) | 866 (78) | 321 (29) |
| 12 | 105.0 (7.5) | 33.5 (2.4) | 1080 (77) | 370 (26) | 76.8 (7.0) | 24.4 (2.2) | 792 (73) | 294 (27) |
| 13 | 94.8 (5.8) | 30.1 (1.9) | 973 (60) | 333 (21) | 71.2 (4.6) | 22.6 (1.5) | 734 (47) | 272 (18) |
| 14 | 70.6 (28.3) | 22.4 (9.0) | 724 (290) | 248 (99) | 52.8 (20.8) | 16.8 (6.6) | 544 (215) | 202 (80) |
| 15 | 93.9 (7.0) | 29.8 (2.2) | 964 (72) | 330 (25) | 75.0 (5.5) | 23.8 (1.7) | 773 (57) | 287 (21) |
| 16 | 81.5 (7.7) | 25.9 (2.4) | 836 (79) | 286 (27) | 69.6 (5.6) | 22.1 (1.8) | 718 (57) | 266 (21) |
| 17 | 76.8 (10.0) | 24.4 (3.2) | 788 (103) | 270 (35) | 66.2 (9.1) | 21.0 (2.9) | 683 (94) | 253 (35) |
| 18 | 63.9 (31.1) | 20.3 (9.9) | 656 (319) | 225 (109) | 55.7 (25.0) | 17.7 (7.9) | 575 (258) | 213 (96) |
| 19 | 101.0 (8.1) | 32.0 (2.6) | 1030 (84) | 354 (29) | 86.2 (6.8) | 27.4 (2.2) | 889 (70) | 326 (24) |
| 20 | | | | | 97.1 (10.9) | 30.8 (3.5) | 1000 (112) | 362 (41) |
| 21 | | | | | 88.9 (36.1) | 28.2 (11.5) | 916 (372) | 331 (135) |
| 22 | 91.7 (11.8) | 29.1 (3.7) | 941 (121) | 322 (41) | 88.3 (10.9) | 28.0 (3.5) | 911 (112) | 329 (41) |
| 23 | 66.2 (4.4) | 21.0 (1.4) | 680 (45) | 233 (16) | 64.6 (4.4) | 20.5 (1.4) | 666 (45) | 241 (16) |
| 24 | 71.8 (4.8) | 22.8 (1.5) | 737 (50) | 252 (17) | 68.9 (4.6) | 21.9 (1.5) | 711 (48) | 257 (17) |
| 25 | 61.9 (25.3) | 19.7 (8.0) | 636 (260) | 218 (89) | 60.7 (24.9) | 19.3 (7.9) | 626 (257) | 226 (93) |
| 26 | 83.0 (9.3) | 26.3 (3.0) | 852 (96) | 292 (33) | 83.6 (7.6) | 26.5 (2.4) | 862 (78) | 312 (28) |
| 27 | 97.6 (13.6) | 31.0 (4.3) | 1000 (140) | 343 (48) | 94.3 (13.1) | 29.9 (4.2) | 973 (135) | 352 (49) |
| 28 | 97.8 (8.1) | 31.1 (2.6) | 1000 (83) | 344 (28) | 96.3 (8.7) | 30.6 (2.8) | 994 (90) | 355 (31) |
| 29 | 104.0 (12.5) | 32.9 (4.0) | 1060 (129) | 365 (44) | 105.0 (12.8) | 33.2 (4.1) | 1080 (132) | 383 (47) |
| 30 | 86.4 (38.4) | 27.4 (12.2) | 887 (395) | 304 (135) | 88.5 (33.4) | 28.1 (10.6) | 913 (345) | 324 (122) |
| 31 | 93.5 (8.2) | 29.7 (2.6) | 960 (85) | 329 (29) | 91.9 (9.7) | 29.2 (3.1) | 948 (100) | 336 (35) |
| Mean | 87.1 | 27.7 | 894 | 307 | 69.0 | 21.9 | 712 | 261 |
| n | 29 | 29 | 29 | 29 | 31 | 31 | 31 | 31 |
| SD | 19.4 | 6.2 | 199 | 67 | 21.4 | 6.8 | 221 | 76 |
| Min | 49.9 | 15.8 | 511 | 178 | 24.8 | 7.9 | 255 | 99 |
| Max | 128.0 | 40.8 | 1320 | 451 | 105.0 | 33.2 | 1080 | 383 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for August, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 93.2 (12.4) | 29.6 (4.0) | 957 (128) | 328 (44) | 95.3 (13.3) | 30.3 (4.2) | 984 (137) | 349 (49) |
| 2 | 87.8 (9.6) | 27.9 (3.0) | 901 (98) | 306 (33) | 90.1 (10.1) | 28.6 (3.2) | 929 (105) | 329 (37) |
| 3 | 61.1 (6.2) | 19.4 (2.0) | 627 (64) | 211 (22) | 65.4 (6.0) | 20.8 (1.9) | 675 (62) | 239 (22) |
| 4 | 61.3 (13.3) | 19.5 (4.2) | 630 (137) | 213 (47) | 67.7 (12.1) | 21.5 (3.8) | 699 (125) | 248 (44) |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | 51.6 (6.6) | 16.4 (2.1) | 530 (68) | 180 (23) | 57.5 (5.6) | 18.3 (1.8) | 594 (58) | 214 (21) |
| 9 | 44.4 (7.8) | 14.1 (2.5) | 456 (80) | 155 (27) | 49.0 (8.0) | 15.5 (2.5) | 506 (82) | 182 (29) |
| 10 | 50.3 (5.3) | 16.0 (1.7) | 517 (54) | 175 (18) | 56.1 (6.5) | 17.8 (2.1) | 579 (67) | 207 (24) |
| 11 | 49.2 (5.4) | 15.6 (1.7) | 505 (55) | 171 (19) | 57.9 (3.7) | 18.4 (1.2) | 597 (38) | 214 (14) |
| 12 | | | | | | | | |
| 13 | 54.2 (4.2) | 17.2 (1.3) | 556 (43) | 189 (15) | 60.7 (4.8) | 19.3 (1.5) | 627 (50) | 221 (18) |
| 14 | 64.4 (17.0) | 20.4 (5.4) | 661 (174) | 224 (59) | 72.9 (12.7) | 23.1 (4.0) | 752 (132) | 266 (47) |
| 15 | 77.7 (8.7) | 24.7 (2.8) | 798 (89) | 271 (30) | 91.9 (7.3) | 29.2 (2.3) | 949 (75) | 335 (27) |
| 16 | 80.9 (11.5) | 25.7 (3.6) | 831 (118) | 282 (40) | 97.4 (14.6) | 30.9 (4.6) | 1010 (151) | 355 (53) |
| 17 | 85.5 (9.7) | 27.1 (3.1) | 878 (100) | 298 (34) | 104.0 (10.8) | 33.1 (3.4) | 1080 (111) | 380 (39) |
| 18 | 86.1 (9.5) | 27.3 (3.0) | 885 (98) | 300 (33) | 104.0 (10.2) | 33.1 (3.2) | 1080 (105) | 376 (37) |
| 19 | 93.1 (5.5) | 29.5 (1.7) | 956 (56) | 324 (19) | 104.0 (6.5) | 33.0 (2.1) | 1070 (67) | 371 (23) |
| 20 | 87.7 (10.3) | 27.9 (3.3) | 901 (105) | 306 (36) | 88.7 (8.2) | 28.2 (2.6) | 916 (84) | 317 (29) |
| 21 | 77.2 (9.8) | 24.5 (3.1) | 793 (100) | 269 (34) | | | | |
| 22 | 58.1 (5.0) | 18.4 (1.6) | 597 (51) | 202 (17) | 58.1 (4.6) | 18.4 (1.5) | 600 (47) | 207 (16) |
| 23 | 62.3 (6.2) | 19.8 (2.0) | 640 (64) | 217 (22) | 63.3 (6.8) | 20.1 (2.2) | 654 (70) | 226 (24) |
| 24 | 61.4 (6.6) | 19.5 (2.1) | 631 (67) | 214 (23) | 66.8 (7.6) | 21.2 (2.4) | 690 (78) | 238 (27) |
| 25 | 66.7 (6.3) | 21.2 (2.0) | 686 (65) | 232 (22) | 72.3 (7.1) | 23.0 (2.3) | 747 (73) | 259 (26) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | 106.0 (7.9) | 33.7 (2.5) | 1090 (81) | 367 (27) | 126.0 (11.9) | 39.9 (3.8) | 1300 (123) | 452 (43) |
| 31 | 94.6 (12.1) | 30.0 (3.8) | 972 (124) | 327 (42) | 106.0 (11.5) | 33.6 (3.7) | 1100 (119) | 381 (41) |
| Mean | 72.0 | 22.8 | 739 | 250 | 79.8 | 25.3 | 824 | 289 |
| n | 23 | 23 | 23 | 23 | 22 | 22 | 22 | 22 |
| SD | 17.2 | 5.5 | 177 | 60 | 21.0 | 6.7 | 217 | 75 |
| Min | 44.4 | 14.1 | 456 | 155 | 49.0 | 15.5 | 506 | 182 |
| Max | 106.0 | 33.7 | 1090 | 367 | 126.0 | 39.9 | 1300 | 452 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for September, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 60.0 (8.8) | 19.0 (2.8) | 616 (91) | 207 (31) | 69.7 (8.4) | 22.1 (2.7) | 720 (86) | 250 (30) |
| 2 | 53.3 (5.2) | 16.9 (1.7) | 548 (54) | 184 (18) | 54.7 (12.7) | 17.4 (4.0) | 566 (131) | 196 (45) |
| 3 | 60.2 (9.6) | 19.1 (3.0) | 619 (99) | 208 (33) | 62.4 (10.8) | 19.8 (3.4) | 645 (111) | 222 (38) |
| 4 | | | | | | | | |
| 5 | 56.4 (10.4) | 17.9 (3.3) | 580 (107) | 195 (36) | 64.9 (10.1) | 20.6 (3.2) | 671 (104) | 231 (36) |
| 6 | 80.0 (6.2) | 25.4 (2.0) | 823 (64) | 277 (22) | 96.1 (7.0) | 30.5 (2.2) | 993 (73) | 342 (25) |
| 7 | 70.2 (3.6) | 22.3 (1.1) | 722 (37) | 242 (12) | 95.1 (6.7) | 30.2 (2.1) | 984 (69) | 339 (24) |
| 8 | 72.2 (15.8) | 22.9 (5.0) | 742 (162) | 249 (55) | 96.2 (18.2) | 30.5 (5.8) | 994 (189) | 342 (65) |
| 9 | 87.5 (5.9) | 27.8 (1.9) | 900 (60) | 302 (20) | 110.0 (8.4) | 34.8 (2.7) | 1130 (87) | 391 (30) |
| 10 | 73.9 (8.9) | 23.5 (2.8) | 760 (91) | 254 (31) | 92.0 (8.6) | 29.2 (2.7) | 951 (89) | 325 (32) |
| 11 | 76.8 (10.0) | 24.4 (3.2) | 790 (102) | 262 (34) | 97.6 (9.9) | 31.0 (3.2) | 1010 (103) | 342 (35) |
| 12 | 94.9 (12.2) | 30.1 (3.9) | 977 (126) | 324 (42) | 119.0 (17.1) | 37.9 (5.4) | 1230 (176) | 418 (60) |
| 13 | 116.0 (14.3) | 36.7 (4.6) | 1190 (148) | 395 (49) | 143.0 (20.0) | 45.3 (6.3) | 1480 (207) | 501 (70) |
| 14 | 101.0 (7.4) | 31.9 (2.4) | 1030 (76) | 343 (25) | 125.0 (9.7) | 39.5 (3.1) | 1290 (100) | 437 (34) |
| 15 | 69.6 (12.8) | 22.1 (4.1) | 716 (132) | 238 (44) | 84.8 (11.5) | 26.9 (3.7) | 877 (119) | 298 (40) |
| 16 | | | | | 47.5 (14.5) | 15.1 (4.6) | 492 (150) | 167 (51) |
| 17 | 36.7 (20.5) | 11.7 (6.5) | 378 (211) | 125 (70) | 45.1 (17.5) | 14.3 (5.6) | 467 (181) | 158 (61) |
| 18 | 33.7 (25.5) | 10.7 (8.1) | 347 (263) | 115 (87) | 38.6 (24.4) | 12.3 (7.8) | 400 (252) | 136 (86) |
| 19 | 36.5 (23.6) | 11.6 (7.5) | 375 (243) | 125 (81) | 45.1 (20.7) | 14.3 (6.6) | 466 (215) | 158 (73) |
| 20 | 39.6 (23.4) | 12.6 (7.4) | 408 (240) | 135 (80) | 47.4 (21.1) | 15.1 (6.7) | 491 (218) | 166 (74) |
| 21 | 48.6 (26.8) | 15.4 (8.5) | 500 (275) | 166 (91) | 59.4 (21.7) | 18.9 (6.9) | 615 (224) | 209 (76) |
| 22 | 49.3 (27.5) | 15.7 (8.7) | 507 (283) | 168 (94) | 61.3 (22.5) | 19.5 (7.1) | 634 (233) | 215 (79) |
| 23 | 47.6 (28.3) | 15.1 (9.0) | 490 (292) | 163 (97) | 56.2 (23.8) | 17.8 (7.6) | 582 (246) | 197 (84) |
| 24 | 40.5 (25.0) | 12.9 (7.9) | 417 (257) | 138 (85) | 46.8 (19.9) | 14.9 (6.3) | 484 (206) | 164 (70) |
| 25 | 38.5 (15.4) | 12.2 (4.9) | 397 (158) | 131 (52) | 39.9 (9.6) | 12.7 (3.1) | 413 (100) | 140 (34) |
| 26 | 107.0 (20.4) | 34.1 (6.5) | 1110 (210) | 366 (70) | 109.0 (18.7) | 34.6 (6.0) | 1130 (194) | 381 (66) |
| 27 | 98.1 (3.9) | 31.1 (1.2) | 1010 (40) | 334 (13) | 114.0 (5.0) | 36.3 (1.6) | 1180 (52) | 400 (18) |
| 28 | 89.5 (13.0) | 28.4 (4.1) | 922 (134) | 305 (44) | 106.0 (3.8) | 33.6 (1.2) | 1100 (40) | 371 (13) |
| 29 | 74.5 (25.7) | 23.6 (8.2) | 767 (264) | 254 (88) | 90.8 (21.8) | 28.8 (6.9) | 940 (226) | 318 (76) |
| 30 | 84.7 (43.5) | 26.9 (13.8) | 872 (448) | 289 (148) | 83.5 (29.6) | 26.5 (9.4) | 864 (306) | 292 (104) |
| Mean | 67.7 | 21.5 | 697 | 232 | 79.3 | 25.2 | 820 | 279 |
| n | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 |
| SD | 23.3 | 7.4 | 239 | 79 | 28.7 | 9.1 | 297 | 101 |
| Min | 33.7 | 10.7 | 347 | 115 | 38.6 | 12.3 | 400 | 136 |
| Max | 116.0 | 36.7 | 1190 | 395 | 143.0 | 45.3 | 1480 | 501 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for October, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 62.0 (30.1) | 19.7 (9.6) | 639 (310) | 211 (103) | 63.8 (22.8) | 20.3 (7.2) | 660 (235) | 223 (80) |
| 2 | | | | | 52.9 (20.8) | 16.8 (6.6) | 547 (215) | 185 (73) |
| 3 | 66.4 (36.7) | 21.1 (11.6) | 684 (377) | 226 (125) | 66.4 (32.5) | 21.1 (10.3) | 687 (336) | 232 (114) |
| 4 | 72.1 (46.9) | 22.9 (14.9) | 743 (483) | 246 (160) | 64.5 (33.5) | 20.5 (10.6) | 668 (346) | 227 (118) |
| 5 | 70.2 (43.1) | 22.3 (13.7) | 723 (444) | 239 (147) | 66.7 (31.6) | 21.2 (10.0) | 691 (327) | 236 (112) |
| 6 | 64.5 (40.9) | 20.5 (13.0) | 664 (421) | 220 (139) | 61.5 (30.5) | 19.5 (9.7) | 637 (316) | 217 (108) |
| 7 | 46.6 (19.5) | 14.8 (6.2) | 480 (201) | 159 (67) | 47.3 (19.0) | 15.0 (6.0) | 490 (197) | 167 (67) |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | 55.1 (18.0) | 17.5 (5.7) | 568 (186) | 188 (62) | 51.8 (15.1) | 16.5 (4.8) | 537 (156) | 183 (53) |
| 11 | | | | | | | | |
| 12 | 83.0 (47.6) | 26.3 (15.1) | 855 (491) | 283 (162) | 71.2 (34.6) | 22.6 (11.0) | 737 (358) | 251 (122) |
| 13 | 67.7 (40.6) | 21.5 (12.9) | 697 (418) | 231 (138) | 62.1 (31.7) | 19.7 (10.1) | 643 (328) | 219 (112) |
| 14 | 74.8 (48.8) | 23.8 (15.5) | 771 (502) | 255 (166) | 64.8 (35.0) | 20.6 (11.1) | 671 (362) | 228 (123) |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| Mean | 66.2 | 21.0 | 682 | 226 | 61.2 | 19.4 | 633 | 215 |
| n | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 |
| SD | 9.7 | 3.1 | 100 | 33 | 7.0 | 2.2 | 73 | 25 |
| Min | 46.6 | 14.8 | 480 | 159 | 47.3 | 15.0 | 490 | 167 |
| Max | 83.0 | 26.3 | 855 | 283 | 71.2 | 22.6 | 737 | 251 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for November, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | 87.5 (41.9) | 27.8 (13.3) | 903 (432) | 302 (144) | 76.6 (36.6) | 24.3 (11.6) | 795 (380) | 275 (132) |
| 16 | 52.6 (22.8) | 16.7 (7.3) | 543 (236) | 181 (79) | 48.3 (19.0) | 15.3 (6.0) | 501 (197) | 174 (68) |
| 17 | 51.5 (21.2) | 16.4 (6.7) | 532 (219) | 178 (73) | 47.4 (18.8) | 15.0 (6.0) | 491 (195) | 170 (68) |
| 18 | 38.7 (20.7) | 12.3 (6.6) | 403 (215) | 135 (72) | 36.1 (19.9) | 11.5 (6.3) | 375 (207) | 130 (72) |
| 19 | 41.2 (16.6) | 13.1 (5.3) | 430 (174) | 145 (59) | 39.4 (15.3) | 12.5 (4.9) | 409 (158) | 142 (55) |
| 20 | 47.6 (20.8) | 15.1 (6.6) | 491 (215) | 169 (74) | 45.2 (18.0) | 14.3 (5.7) | 469 (187) | 163 (65) |
| 21 | 44.4 (19.7) | 14.1 (6.2) | 459 (203) | 158 (70) | 45.2 (18.6) | 14.3 (5.9) | 469 (193) | 163 (67) |
| 22 | 37.1 (13.6) | 11.8 (4.3) | 383 (140) | 132 (48) | 40.6 (14.2) | 12.9 (4.5) | 421 (148) | 147 (51) |
| 23 | 43.7 (16.5) | 13.9 (5.3) | 452 (171) | 155 (59) | 49.8 (18.1) | 15.8 (5.8) | 517 (188) | 181 (66) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 51.4 (25.4) | 16.3 (8.1) | 531 (262) | 182 (90) | 58.2 (28.5) | 18.5 (9.0) | 604 (295) | 211 (103) |
| 29 | 47.5 (21.3) | 15.1 (6.8) | 491 (220) | 168 (76) | 53.6 (19.8) | 17.0 (6.3) | 556 (206) | 195 (72) |
| 30 | 61.4 (21.3) | 19.5 (6.8) | 635 (220) | 218 (76) | 65.5 (19.0) | 20.8 (6.0) | 680 (198) | 238 (69) |
| Mean | 50.4 | 16.0 | 521 | 177 | 50.5 | 16.0 | 524 | 182 |
| n | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| SD | 12.9 | 4.1 | 133 | 44 | 11.1 | 3.5 | 115 | 40 |
| Min | 37.1 | 11.8 | 383 | 132 | 36.1 | 11.5 | 375 | 130 |
| Max | 87.5 | 27.8 | 903 | 302 | 76.6 | 24.3 | 795 | 275 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for December, 2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 52.7 (25.7) | 16.7 (8.2) | 545 (265) | 187 (91) | 55.2 (18.1) | 17.5 (5.8) | 573 (188) | 201 (66) |
| 2 | 41.5 (16.5) | 13.2 (5.2) | 429 (171) | 147 (59) | 40.9 (15.3) | 13.0 (4.9) | 424 (158) | 148 (56) |
| 3 | 40.2 (15.6) | 12.8 (5.0) | 415 (161) | 143 (55) | 41.1 (14.3) | 13.1 (4.5) | 433 (151) | 152 (53) |
| 4 | 51.7 (22.7) | 16.4 (7.2) | 534 (234) | 183 (81) | 49.2 (18.9) | 15.6 (6.0) | 518 (197) | 181 (69) |
| 5 | 45.4 (19.6) | 14.4 (6.2) | 470 (202) | 161 (70) | 47.5 (16.5) | 15.1 (5.2) | 493 (171) | 173 (60) |
| 6 | 41.7 (17.3) | 13.2 (5.5) | 431 (179) | 148 (62) | 44.2 (14.9) | 14.0 (4.7) | 459 (155) | 161 (54) |
| 7 | 40.7 (16.6) | 12.9 (5.3) | 421 (172) | 144 (59) | 40.0 (14.6) | 12.7 (4.6) | 415 (152) | 145 (53) |
| 8 | 33.6 (9.8) | 10.7 (3.1) | 347 (101) | 119 (35) | 35.6 (11.8) | 11.3 (3.8) | 369 (123) | 129 (43) |
| 9 | 50.8 (21.1) | 16.1 (6.7) | 525 (218) | 180 (75) | 61.4 (27.1) | 19.5 (8.6) | 638 (281) | 223 (98) |
| 10 | 74.0 (17.9) | 23.5 (5.7) | 766 (185) | 263 (64) | 70.9 (22.4) | 22.5 (7.1) | 736 (233) | 257 (81) |
| 11 | 70.6 (20.5) | 22.4 (6.5) | 730 (212) | 251 (73) | 68.6 (25.3) | 21.8 (8.0) | 712 (262) | 249 (92) |
| 12 | 52.9 (25.2) | 16.8 (8.0) | 547 (261) | 188 (90) | 51.6 (20.9) | 16.4 (6.6) | 536 (217) | 188 (76) |
| 13 | 37.2 (12.7) | 11.8 (4.0) | 385 (131) | 132 (45) | 39.5 (12.9) | 12.6 (4.1) | 411 (134) | 144 (47) |
| 14 | 52.7 (21.5) | 16.7 (6.8) | 545 (222) | 187 (76) | 50.2 (15.8) | 15.9 (5.0) | 522 (164) | 184 (58) |
| 15 | 80.5 (31.2) | 25.6 (9.9) | 833 (322) | 286 (111) | 69.0 (21.9) | 21.9 (7.0) | 717 (228) | 253 (80) |
| 16 | 63.2 (34.2) | 20.1 (10.9) | 654 (354) | 224 (122) | 62.5 (27.9) | 19.8 (8.9) | 649 (290) | 229 (102) |
| 17 | 71.3 (28.1) | 22.6 (8.9) | 737 (291) | 253 (100) | 74.5 (28.3) | 23.7 (9.0) | 774 (294) | 273 (104) |
| 18 | 65.0 (17.4) | 20.6 (5.5) | 673 (180) | 231 (62) | 68.7 (14.8) | 21.8 (4.7) | 714 (154) | 252 (54) |
| 19 | 64.4 (26.3) | 20.4 (8.3) | 667 (272) | 229 (93) | 68.2 (21.6) | 21.6 (6.9) | 708 (225) | 249 (79) |
| 20 | 54.2 (17.5) | 17.2 (5.5) | 561 (181) | 192 (62) | 56.2 (27.8) | 17.8 (8.8) | 584 (289) | 206 (102) |
| 21 | 50.6 (20.6) | 16.0 (6.6) | 523 (213) | 179 (73) | 46.2 (16.8) | 14.7 (5.3) | 481 (174) | 169 (61) |
| 22 | 37.6 (5.5) | 11.9 (1.8) | 389 (57) | 133 (20) | 33.7 (4.3) | 10.7 (1.4) | 350 (45) | 123 (16) |
| 23 | 40.7 (12.2) | 12.9 (3.9) | 421 (126) | 144 (43) | 34.1 (6.2) | 10.8 (2.0) | 354 (64) | 125 (23) |
| 24 | 59.2 (23.3) | 18.8 (7.4) | 612 (241) | 209 (82) | 55.4 (25.6) | 17.6 (8.1) | 576 (266) | 203 (94) |
| 25 | 53.2 (23.5) | 16.9 (7.5) | 551 (244) | 188 (83) | 51.8 (24.8) | 16.4 (7.9) | 538 (258) | 189 (91) |
| 26 | 46.1 (16.0) | 14.6 (5.1) | 477 (166) | 163 (56) | 41.2 (11.9) | 13.1 (3.8) | 428 (124) | 151 (44) |
| 27 | 55.8 (23.6) | 17.7 (7.5) | 578 (244) | 197 (83) | 53.2 (11.1) | 16.9 (3.5) | 553 (115) | 195 (41) |
| 28 | 65.3 (24.9) | 20.7 (7.9) | 676 (257) | 230 (88) | 64.4 (19.7) | 20.4 (6.3) | 669 (205) | 236 (72) |
| 29 | 34.6 (16.7) | 11.0 (5.3) | 358 (173) | 122 (59) | 39.9 (11.2) | 12.7 (3.6) | 414 (116) | 146 (41) |
| 30 | 28.3 (13.6) | 9.0 (4.3) | 293 (141) | 100 (48) | 40.9 (10.3) | 13.0 (3.3) | 426 (107) | 150 (38) |
| 31 | 36.0 (13.2) | 11.4 (4.2) | 373 (137) | 127 (47) | 34.1 (10.9) | 10.8 (3.5) | 355 (113) | 125 (40) |
| Mean | 51.3 | 16.3 | 531 | 182 | 51.3 | 16.3 | 533 | 187 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 13.0 | 4.1 | 135 | 46 | 12.2 | 3.9 | 127 | 45 |
| Min | 28.3 | 9.0 | 293 | 100 | 33.7 | 10.7 | 350 | 123 |
| Max | 80.5 | 25.6 | 833 | 286 | 74.5 | 23.7 | 774 | 273 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for January, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 33.9 (9.1) | 10.8 (2.9) | 351 (95) | 119 (32) | 29.3 (3.8) | 9.3 (1.2) | 304 (39) | 107 (14) |
| 2 | 38.9 (13.7) | 12.4 (4.3) | 403 (141) | 137 (48) | 30.8 (5.8) | 9.8 (1.8) | 321 (60) | 113 (21) |
| 3 | 47.5 (14.2) | 15.1 (4.5) | 493 (147) | 168 (50) | 40.4 (9.5) | 12.8 (3.0) | 420 (99) | 148 (35) |
| 4 | | | | | | | | |
| 5 | 61.3 (22.2) | 19.5 (7.0) | 636 (230) | 216 (78) | 56.3 (9.1) | 17.9 (2.9) | 586 (95) | 206 (33) |
| 6 | 48.9 (17.2) | 15.5 (5.5) | 507 (179) | 173 (61) | 44.7 (13.4) | 14.2 (4.3) | 465 (140) | 164 (49) |
| 7 | 54.7 (24.4) | 17.4 (7.7) | 567 (253) | 193 (86) | 54.5 (26.6) | 17.3 (8.5) | 567 (277) | 200 (98) |
| 8 | 47.2 (19.8) | 15.0 (6.3) | 490 (205) | 167 (70) | 37.2 (9.9) | 11.8 (3.1) | 387 (103) | 136 (36) |
| 9 | 44.6 (18.6) | 14.2 (5.9) | 463 (193) | 157 (66) | 34.8 (6.3) | 11.0 (2.0) | 362 (66) | 127 (23) |
| 10 | | | | | | | | |
| 11 | 52.3 (20.2) | 16.6 (6.4) | 543 (209) | 185 (71) | 44.8 (12.5) | 14.2 (4.0) | 467 (130) | 162 (45) |
| 12 | 44.8 (14.8) | 14.2 (4.7) | 464 (154) | 158 (52) | 33.9 (9.7) | 10.8 (3.1) | 353 (101) | 123 (35) |
| 13 | 40.5 (10.8) | 12.9 (3.4) | 420 (112) | 143 (38) | 35.6 (6.3) | 11.3 (2.0) | 370 (65) | 129 (23) |
| 14 | 42.1 (12.2) | 13.4 (3.9) | 436 (127) | 148 (43) | 37.4 (4.6) | 11.9 (1.5) | 390 (48) | 136 (17) |
| 15 | | | | | | | | |
| 16 | 37.1 (6.0) | 11.8 (1.9) | 385 (62) | 131 (21) | 32.6 (2.3) | 10.3 (0.7) | 339 (24) | 118 (8) |
| 17 | 36.0 (5.2) | 11.4 (1.7) | 374 (54) | 127 (18) | 34.1 (4.2) | 10.8 (1.3) | 355 (44) | 123 (15) |
| 18 | 50.9 (27.0) | 16.1 (8.6) | 528 (280) | 180 (95) | 47.1 (12.6) | 14.9 (4.0) | 490 (131) | 170 (46) |
| 19 | 59.5 (34.5) | 18.9 (11.0) | 617 (358) | 210 (122) | 52.0 (18.7) | 16.5 (5.9) | 542 (194) | 188 (68) |
| 20 | 48.8 (26.6) | 15.5 (8.4) | 506 (276) | 172 (94) | 48.6 (19.2) | 15.4 (6.1) | 506 (200) | 176 (70) |
| 21 | 33.7 (12.6) | 10.7 (4.0) | 350 (131) | 119 (44) | 34.1 (12.3) | 10.8 (3.9) | 356 (128) | 124 (45) |
| 22 | | | | | 41.4 (16.7) | 13.1 (5.3) | 431 (174) | 151 (61) |
| 23 | | | | | | | | |
| 24 | | | | | 82.8 (31.8) | 26.3 (10.1) | 862 (331) | 302 (116) |
| 25 | | | | | 60.6 (22.4) | 19.2 (7.1) | 631 (233) | 221 (82) |
| 26 | | | | | 51.4 (20.7) | 16.3 (6.6) | 536 (216) | 188 (76) |
| 27 | | | | | 58.9 (21.8) | 18.7 (6.9) | 613 (227) | 215 (79) |
| 28 | | | | | 91.1 (51.4) | 28.9 (16.3) | 944 (532) | 330 (186) |
| 29 | | | | | | | | |
| 30 | | | | | 58.6 (22.5) | 18.6 (7.2) | 611 (235) | 214 (82) |
| 31 | 46.1 (17.2) | 14.6 (5.5) | 479 (179) | 163 (61) | 50.0 (19.4) | 15.9 (6.2) | 522 (202) | 183 (71) |
| Mean | 45.7 | 14.5 | 474 | 161 | 47.0 | 14.9 | 490 | 171 |
| n | 19 | 19 | 19 | 19 | 26 | 26 | 26 | 26 |
| SD | 7.8 | 2.5 | 81 | 28 | 14.8 | 4.7 | 154 | 54 |
| Min | 33.7 | 10.7 | 350 | 119 | 29.3 | 9.3 | 304 | 107 |
| Max | 61.3 | 19.5 | 636 | 216 | 91.1 | 28.9 | 944 | 330 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for February, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 59.5 (30.8) | 18.9 (9.8) | 619 (320) | 211 (109) | 64.0 (28.3) | 20.3 (9.0) | 668 (295) | 234 (103) |
| 2 | 61.8 (28.8) | 19.6 (9.2) | 642 (300) | 219 (102) | 71.3 (30.5) | 22.6 (9.7) | 743 (318) | 260 (111) |
| 3 | 50.3 (19.7) | 16.0 (6.3) | 523 (205) | 178 (70) | 47.8 (17.7) | 15.2 (5.6) | 498 (184) | 174 (65) |
| 4 | | | | | 41.4 (14.3) | 13.1 (4.5) | 431 (149) | 151 (52) |
| 5 | 32.9 (11.6) | 10.5 (3.7) | 343 (121) | 117 (41) | 34.8 (6.7) | 11.0 (2.1) | 362 (70) | 127 (25) |
| 6 | 38.5 (15.9) | 12.2 (5.1) | 400 (166) | 136 (56) | 40.7 (15.8) | 12.9 (5.0) | 424 (165) | 149 (58) |
| 7 | 54.9 (19.6) | 17.4 (6.2) | 571 (203) | 194 (69) | 68.9 (36.5) | 21.9 (11.6) | 719 (380) | 252 (133) |
| 8 | 58.5 (24.7) | 18.6 (7.8) | 608 (257) | 207 (87) | | | | |
| 9 | 58.2 (29.4) | 18.5 (9.3) | 606 (306) | 206 (104) | 58.1 (22.2) | 18.5 (7.1) | 607 (232) | 212 (81) |
| 10 | 65.3 (24.7) | 20.7 (7.9) | 680 (257) | 231 (88) | 79.0 (37.1) | 25.1 (11.8) | 824 (388) | 288 (136) |
| 11 | 70.6 (31.3) | 22.4 (9.9) | 735 (326) | 250 (111) | 89.4 (46.2) | 28.4 (14.7) | 933 (482) | 327 (169) |
| 12 | 50.8 (24.0) | 16.1 (7.6) | 528 (250) | 180 (85) | 57.5 (24.4) | 18.3 (7.7) | 601 (254) | 210 (89) |
| 13 | 44.7 (15.0) | 14.2 (4.8) | 465 (156) | 158 (53) | 48.7 (19.6) | 15.5 (6.2) | 509 (205) | 178 (72) |
| 14 | 42.6 (18.4) | 13.5 (5.9) | 443 (192) | 151 (65) | 46.4 (16.9) | 14.7 (5.4) | 485 (177) | 170 (62) |
| 15 | 40.7 (18.3) | 12.9 (5.8) | 424 (190) | 144 (65) | 42.1 (16.0) | 13.4 (5.1) | 439 (167) | 154 (58) |
| 16 | 39.8 (16.5) | 12.6 (5.2) | 415 (172) | 141 (59) | 37.2 (15.7) | 11.8 (5.0) | 388 (164) | 136 (58) |
| 17 | 37.6 (14.8) | 11.9 (4.7) | 391 (154) | 133 (52) | 37.1 (14.4) | 11.8 (4.6) | 387 (150) | 136 (53) |
| 18 | 46.0 (19.4) | 14.6 (6.2) | 480 (202) | 163 (69) | 49.6 (18.7) | 15.8 (5.9) | 518 (195) | 181 (68) |
| 19 | 58.8 (21.3) | 18.7 (6.8) | 613 (222) | 211 (76) | 56.7 (23.8) | 18.0 (7.6) | 592 (248) | 208 (87) |
| 20 | 32.8 (10.9) | 10.4 (3.5) | 342 (113) | 119 (40) | 31.9 (11.7) | 10.1 (3.7) | 333 (122) | 118 (43) |
| 21 | 38.4 (14.8) | 12.2 (4.7) | 401 (154) | 139 (54) | 37.5 (11.5) | 11.9 (3.7) | 392 (120) | 139 (43) |
| 22 | 43.5 (17.5) | 13.8 (5.6) | 454 (183) | 158 (64) | 41.8 (16.1) | 13.3 (5.1) | 436 (169) | 155 (60) |
| 23 | 36.0 (14.4) | 11.4 (4.6) | 375 (150) | 130 (52) | 33.0 (12.1) | 10.5 (3.8) | 345 (126) | 122 (45) |
| 24 | 34.2 (12.6) | 10.8 (4.0) | 356 (131) | 124 (46) | 34.0 (12.3) | 10.8 (3.9) | 355 (128) | 126 (45) |
| 25 | 37.8 (14.0) | 12.0 (4.5) | 395 (147) | 137 (51) | 36.9 (12.4) | 11.7 (3.9) | 386 (130) | 137 (46) |
| 26 | 48.3 (27.9) | 15.3 (8.9) | 504 (291) | 175 (101) | 46.4 (22.8) | 14.7 (7.2) | 485 (238) | 172 (85) |
| 27 | 40.5 (15.9) | 12.9 (5.1) | 423 (166) | 147 (58) | 56.4 (30.8) | 17.9 (9.8) | 589 (322) | 209 (114) |
| 28 | 32.0 (7.1) | 10.1 (2.3) | 333 (74) | 116 (26) | 40.7 (24.4) | 12.9 (7.7) | 426 (255) | 151 (90) |
| Mean | 46.5 (19.2) | 14.8 (6.1) | 484 (200) | 166 (69) | 49.2 (20.7) | 15.6 (6.6) | 514 (216) | 181 (76) |
| n | 27.0 | 27.0 | 27 | 27 | 27.0 | 27.0 | 27 | 27 |
| SD | 11 | 3 | 112 | 38 | 15 | 5 | 152 | 53 |
| Min | 32.0 | 10.1 | 333 | 116 | 31.9 | 10.1 | 333 | 118 |
| Max | 70.6 | 22.4 | 735 | 250 | 89.4 | 28.4 | 933 | 327 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for March, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 33.8 (7.5) | 10.7 (2.4) | 353 (78) | 123 (27) | 30.1 (17.6) | 9.6 (5.6) | 315 (184) | 111 (65) |
| 2 | | | | | | | | |
| 3 | 28.1 (2.1) | 8.9 (0.7) | 294 (22) | 102 (8) | 16.3 (5.3) | 5.2 (1.7) | 170 (56) | 60 (20) |
| 4 | 33.0 (8.9) | 10.5 (2.8) | 344 (93) | 120 (32) | 32.4 (15.6) | 10.3 (5.0) | 339 (163) | 120 (58) |
| 5 | 50.2 (22.8) | 15.9 (7.2) | 524 (238) | 182 (83) | 58.1 (24.8) | 18.4 (7.9) | 607 (259) | 215 (92) |
| 6 | 79.7 (36.8) | 25.3 (11.7) | 832 (385) | 289 (134) | 84.8 (45.9) | 26.9 (14.6) | 887 (481) | 314 (170) |
| 7 | 95.3 (50.0) | 30.2 (15.9) | 995 (522) | 346 (181) | 108.0 (71.3) | 34.2 (22.6) | 1130 (746) | 400 (264) |
| 8 | 78.4 (50.3) | 24.9 (16.0) | 819 (526) | 285 (183) | 89.9 (55.8) | 28.5 (17.7) | 941 (583) | 333 (207) |
| 9 | 55.9 (36.1) | 17.8 (11.5) | 585 (378) | 203 (131) | 62.6 (41.5) | 19.9 (13.2) | 655 (434) | 232 (154) |
| 10 | 31.0 (12.2) | 9.8 (3.9) | 323 (128) | 112 (45) | 29.5 (10.4) | 9.4 (3.3) | 309 (109) | 110 (39) |
| 11 | 64.7 (42.1) | 20.5 (13.4) | 676 (441) | 235 (153) | 79.8 (53.7) | 25.3 (17.0) | 835 (562) | 296 (199) |
| 12 | 36.1 (14.1) | 11.5 (4.5) | 377 (148) | 131 (51) | 29.6 (13.3) | 9.4 (4.2) | 310 (139) | 110 (49) |
| 13 | 38.9 (17.4) | 12.4 (5.5) | 407 (182) | 142 (63) | 33.3 (13.6) | 10.6 (4.3) | 349 (142) | 124 (50) |
| 14 | 46.4 (19.3) | 14.7 (6.1) | 485 (202) | 169 (70) | 41.1 (15.0) | 13.0 (4.8) | 430 (157) | 152 (56) |
| 15 | 54.7 (24.1) | 17.4 (7.7) | 572 (252) | 199 (88) | 53.4 (14.8) | 16.9 (4.7) | 559 (155) | 198 (55) |
| 16 | 64.7 (26.8) | 20.5 (8.5) | 676 (280) | 235 (98) | 61.6 (12.3) | 19.6 (3.9) | 645 (129) | 229 (46) |
| 17 | 63.3 (26.0) | 20.1 (8.3) | 663 (272) | 230 (95) | 61.2 (23.6) | 19.4 (7.5) | 641 (247) | 227 (88) |
| 18 | 55.0 (19.0) | 17.5 (6.0) | 575 (199) | 200 (69) | 65.7 (26.6) | 20.9 (8.5) | 688 (279) | 244 (99) |
| 19 | 61.2 (29.4) | 19.4 (9.3) | 641 (308) | 225 (108) | 53.4 (29.5) | 17.0 (9.4) | 560 (309) | 198 (109) |
| 20 | 44.4 (21.3) | 14.1 (6.8) | 465 (223) | 165 (79) | 41.1 (15.9) | 13.1 (5.1) | 431 (167) | 152 (59) |
| 21 | 35.6 (12.2) | 11.3 (3.9) | 373 (127) | 132 (45) | 38.2 (13.5) | 12.1 (4.3) | 400 (141) | 141 (50) |
| 22 | 36.8 (11.6) | 11.7 (3.7) | 386 (121) | 137 (43) | 41.1 (15.5) | 13.0 (4.9) | 430 (163) | 152 (58) |
| 23 | 37.5 (19.1) | 11.9 (6.1) | 393 (200) | 139 (71) | 44.5 (23.1) | 14.1 (7.3) | 466 (242) | 165 (85) |
| 24 | 35.6 (17.6) | 11.3 (5.6) | 373 (184) | 132 (65) | 23.9 (10.7) | 7.6 (3.4) | 250 (112) | 88 (40) |
| 25 | 30.7 (16.1) | 9.8 (5.1) | 322 (169) | 114 (60) | 24.7 (9.8) | 7.9 (3.1) | 259 (102) | 92 (36) |
| 26 | | | | | | | | |
| 27 | 40.7 (15.2) | 12.9 (4.8) | 426 (160) | 151 (57) | 24.4 (11.5) | 7.7 (3.7) | 255 (121) | 90 (43) |
| 28 | 36.2 (15.6) | 11.5 (4.9) | 379 (163) | 134 (58) | 22.2 (7.0) | 7.0 (2.2) | 232 (73) | 82 (26) |
| 29 | 41.9 (21.3) | 13.3 (6.8) | 439 (223) | 156 (79) | 29.0 (13.6) | 9.2 (4.3) | 304 (142) | 107 (50) |
| 30 | 34.9 (13.1) | 11.1 (4.2) | 366 (138) | 130 (49) | 27.2 (7.8) | 8.7 (2.5) | 286 (82) | 101 (29) |
| 31 | 35.7 (15.0) | 11.3 (4.8) | 374 (157) | 133 (56) | 34.2 (10.1) | 10.9 (3.2) | 359 (106) | 127 (38) |
| Mean | 47.6 | 15.1 | 498 | 174 | 46.2 | 14.7 | 484 | 171 |
| n | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| SD | 16.6 | 5.3 | 174 | 60 | 22.5 | 7.2 | 235 | 84 |
| Min | 28.1 | 8.9 | 294 | 102 | 16.3 | 5.2 | 170 | 60 |
| Max | 95.3 | 30.2 | 995 | 346 | 108.0 | 34.2 | 1130 | 400 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for April, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 30.0 (11.5) | 9.5 (3.7) | 314 (121) | 111 (43) | 49.7 (14.1) | 15.8 (4.5) | 522 (147) | 184 (52) |
| 2 | 25.1 (9.8) | 8.0 (3.1) | 263 (103) | 93 (37) | 58.8 (13.4) | 18.7 (4.3) | 617 (141) | 218 (50) |
| 3 | 29.6 (11.5) | 9.4 (3.7) | 310 (121) | 110 (43) | 68.8 (28.1) | 21.9 (8.9) | 722 (294) | 255 (104) |
| 4 | 30.9 (17.1) | 9.8 (5.4) | 325 (179) | 115 (63) | 45.1 (16.3) | 14.3 (5.2) | 473 (171) | 167 (61) |
| 5 | 25.7 (10.6) | 8.2 (3.4) | 270 (111) | 96 (39) | 67.5 (39.0) | 21.4 (12.4) | 708 (409) | 250 (144) |
| 6 | 19.7 (8.7) | 6.3 (2.8) | 207 (91) | 73 (32) | 45.3 (15.3) | 14.4 (4.9) | 475 (161) | 168 (57) |
| 7 | 12.7 (5.9) | 4.0 (1.9) | 133 (62) | 47 (22) | 35.9 (11.1) | 11.4 (3.5) | 377 (117) | 133 (41) |
| 8 | 19.9 (8.7) | 6.3 (2.8) | 209 (91) | 79 (34) | 37.7 (11.5) | 12.0 (3.6) | 395 (120) | 140 (43) |
| 9 | 29.6 (14.0) | 9.4 (4.4) | 311 (147) | 125 (59) | 45.5 (16.9) | 14.5 (5.4) | 478 (178) | 169 (63) |
| 10 | 41.3 (17.9) | 13.1 (5.7) | 434 (189) | 174 (76) | 63.0 (36.4) | 20.0 (11.6) | 662 (383) | 234 (135) |
| 11 | 24.0 (14.0) | 7.6 (4.4) | 252 (147) | 101 (59) | 45.6 (20.2) | 14.5 (6.4) | 479 (212) | 169 (75) |
| 12 | 15.8 (8.1) | 5.0 (2.6) | 166 (85) | 66 (34) | 38.8 (12.3) | 12.3 (3.9) | 408 (130) | 144 (46) |
| 13 | 17.1 (8.0) | 5.4 (2.5) | 179 (84) | 72 (34) | 46.2 (20.3) | 14.7 (6.5) | 486 (214) | 172 (76) |
| 14 | 42.5 (22.2) | 13.5 (7.1) | 448 (234) | 179 (94) | 64.3 (24.3) | 20.4 (7.7) | 675 (255) | 239 (90) |
| 15 | 20.6 (6.9) | 6.5 (2.2) | 217 (73) | 87 (29) | 56.1 (16.5) | 17.8 (5.3) | 589 (174) | 208 (61) |
| 16 | 27.5 (11.5) | 8.7 (3.7) | 290 (121) | 117 (49) | 51.4 (17.3) | 16.3 (5.5) | 541 (182) | 191 (64) |
| 17 | 35.7 (20.0) | 11.3 (6.3) | 376 (210) | 152 (85) | 52.0 (18.2) | 16.5 (5.8) | 547 (191) | 193 (68) |
| 18 | 44.8 (18.7) | 14.2 (5.9) | 472 (197) | 194 (82) | 82.4 (49.7) | 26.2 (15.8) | 867 (522) | 306 (185) |
| 19 | 30.4 (16.9) | 9.7 (5.4) | 321 (178) | 133 (74) | 55.9 (21.2) | 17.8 (6.7) | 588 (223) | 208 (79) |
| 20 | 55.5 (22.0) | 17.6 (7.0) | 585 (232) | 242 (96) | 97.1 (44.6) | 30.8 (14.2) | 1020 (469) | 361 (166) |
| 21 | 40.0 (15.6) | 12.7 (5.0) | 422 (165) | 175 (68) | 59.5 (17.5) | 18.9 (5.6) | 626 (184) | 221 (65) |
| 22 | 37.5 (14.0) | 11.9 (4.4) | 396 (148) | 156 (60) | 56.3 (16.6) | 17.9 (5.3) | 592 (174) | 208 (61) |
| 23 | 49.7 (16.7) | 15.8 (5.3) | 525 (176) | 195 (66) | 82.0 (40.7) | 26.0 (12.9) | 863 (428) | 302 (150) |
| 24 | 95.8 (51.0) | 30.4 (16.2) | 1010 (539) | 375 (200) | 113.0 (56.5) | 35.8 (17.9) | 1190 (594) | 416 (208) |
| 25 | 118.0 (58.5) | 37.5 (18.6) | 1250 (618) | 463 (229) | 120.0 (45.7) | 38.2 (14.5) | 1270 (481) | 443 (168) |
| 26 | 119.0 (62.3) | 37.7 (19.8) | 1250 (658) | 465 (244) | 97.7 (44.6) | 31.0 (14.1) | 1030 (469) | 360 (164) |
| 27 | 113.0 (64.2) | 36.0 (20.4) | 1200 (677) | 445 (251) | 84.1 (38.7) | 26.7 (12.3) | 885 (408) | 310 (143) |
| 28 | 110.0 (65.2) | 34.8 (20.7) | 1160 (689) | 430 (256) | 63.7 (30.5) | 20.2 (9.7) | 671 (322) | 235 (113) |
| 29 | 78.8 (39.6) | 25.0 (12.6) | 831 (418) | 309 (155) | 63.9 (39.9) | 20.3 (12.7) | 673 (420) | 235 (147) |
| 30 | 74.3 (29.8) | 23.6 (9.5) | 784 (315) | 276 (111) | 49.5 (16.1) | 15.7 (5.1) | 521 (169) | 182 (59) |
| Mean | 47.1 | 15.0 | 497 | 188 | 63.2 | 20.1 | 665 | 234 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 32.4 | 10.3 | 343 | 126 | 21.3 | 6.8 | 225 | 78 |
| Min | 12.7 | 4.0 | 133 | 47 | 35.9 | 11.4 | 377 | 133 |
| Max | 119.0 | 37.7 | 1250 | 465 | 120.0 | 38.2 | 1270 | 443 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for May, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 120.0 (58.9) | 38.1 (18.7) | 1270 (622) | 425 (208) | 93.4 (39.3) | 29.7 (12.5) | 985 (414) | 345 (145) |
| 2 | | | | | | | | |
| 3 | 136.0 (63.6) | 43.1 (20.2) | 1430 (672) | 480 (225) | 89.7 (36.0) | 28.5 (11.4) | 946 (380) | 331 (133) |
| 4 | 125.0 (65.2) | 39.8 (20.7) | 1320 (689) | 443 (231) | 87.7 (35.3) | 27.8 (11.2) | 925 (372) | 324 (130) |
| 5 | 89.9 (24.8) | 28.5 (7.9) | 949 (262) | 318 (88) | 59.0 (17.0) | 18.7 (5.4) | 622 (180) | 218 (63) |
| 6 | 145.0 (70.3) | 46.0 (22.3) | 1530 (742) | 513 (249) | 98.9 (41.2) | 31.4 (13.1) | 1040 (435) | 365 (152) |
| 7 | 130.0 (55.2) | 41.3 (17.5) | 1370 (583) | 460 (195) | 92.6 (34.4) | 29.4 (10.9) | 977 (363) | 342 (127) |
| 8 | 154.0 (70.4) | 48.9 (22.3) | 1630 (743) | 546 (249) | 102.0 (36.5) | 32.5 (11.6) | 1080 (386) | 378 (135) |
| 9 | | | | | | | | |
| 10 | 103.0 (39.5) | 32.8 (12.5) | 1090 (417) | 366 (140) | 68.8 (30.3) | 21.8 (9.6) | 726 (320) | 254 (112) |
| 11 | 95.3 (22.8) | 30.2 (7.2) | 1010 (241) | 337 (81) | 42.1 (9.4) | 13.4 (3.0) | 445 (99) | 156 (35) |
| 12 | 102.0 (36.7) | 32.4 (11.6) | 1080 (387) | 362 (130) | 60.8 (26.4) | 19.3 (8.4) | 642 (279) | 225 (98) |
| 13 | 107.0 (51.0) | 34.0 (16.2) | 1130 (539) | 379 (181) | 54.9 (21.1) | 17.4 (6.7) | 580 (222) | 203 (78) |
| 14 | 114.0 (49.2) | 36.2 (15.6) | 1200 (520) | 404 (174) | 73.3 (34.2) | 23.3 (10.8) | 775 (361) | 271 (126) |
| 15 | 126.0 (56.4) | 40.0 (17.9) | 1330 (596) | 446 (200) | 83.4 (32.2) | 26.5 (10.2) | 881 (340) | 308 (119) |
| 16 | 114.0 (53.6) | 36.2 (17.0) | 1210 (566) | 404 (190) | 81.0 (29.7) | 25.7 (9.4) | 856 (314) | 300 (110) |
| 17 | 69.4 (20.4) | 22.0 (6.5) | 734 (216) | 246 (72) | 46.9 (14.4) | 14.9 (4.6) | 496 (152) | 174 (53) |
| 18 | 84.3 (30.6) | 26.8 (9.7) | 892 (323) | 299 (108) | 56.4 (17.3) | 17.9 (5.5) | 596 (183) | 209 (64) |
| 19 | 82.6 (24.6) | 26.2 (7.8) | 874 (260) | 293 (87) | 60.6 (24.6) | 19.2 (7.8) | 641 (260) | 224 (91) |
| 20 | 93.4 (33.5) | 29.6 (10.6) | 987 (354) | 331 (119) | 68.0 (26.0) | 21.6 (8.3) | 719 (275) | 252 (96) |
| 21 | 94.6 (36.7) | 30.0 (11.6) | 1000 (388) | 335 (130) | 77.9 (29.4) | 24.7 (9.3) | 825 (311) | 289 (109) |
| 22 | 102.0 (45.8) | 32.5 (14.5) | 1080 (485) | 363 (162) | 81.8 (33.4) | 26.0 (10.6) | 865 (353) | 303 (123) |
| 23 | 103.0 (48.7) | 32.7 (15.5) | 1090 (515) | 365 (173) | 81.0 (34.6) | 25.7 (11.0) | 857 (366) | 300 (128) |
| 24 | 81.3 (34.8) | 25.8 (11.0) | 861 (368) | 288 (123) | 70.6 (29.6) | 22.4 (9.4) | 747 (313) | 261 (109) |
| 25 | 97.3 (44.5) | 30.9 (14.1) | 1030 (471) | 345 (158) | 85.2 (33.3) | 27.0 (10.6) | 902 (353) | 316 (123) |
| 26 | 79.7 (32.4) | 25.3 (10.3) | 843 (343) | 282 (115) | 72.9 (28.3) | 23.1 (9.0) | 772 (300) | 270 (105) |
| 27 | 109.0 (47.0) | 34.5 (14.9) | 1150 (498) | 386 (167) | 88.3 (33.9) | 28.0 (10.8) | 936 (360) | 327 (126) |
| 28 | | | | | | | | |
| 29 | 102.0 (51.0) | 32.3 (16.2) | 1080 (540) | 361 (181) | 82.5 (33.8) | 26.2 (10.7) | 874 (358) | 306 (125) |
| 30 | 87.0 (42.2) | 27.6 (13.4) | 921 (446) | 309 (150) | 66.1 (28.4) | 21.0 (9.0) | 701 (302) | 245 (106) |
| 31 | 97.9 (51.8) | 31.1 (16.5) | 1040 (549) | 347 (184) | 69.2 (31.2) | 22.0 (9.9) | 733 (331) | 257 (116) |
| Mean | 105.0 | 33.4 | 1110 | 373 | 74.8 | 23.8 | 791 | 277 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 20.1 | 6.4 | 212 | 71 | 15.1 | 4.8 | 159 | 56 |
| Min | 69.4 | 22.0 | 734 | 246 | 42.1 | 13.4 | 445 | 156 |
| Max | 154.0 | 48.9 | 1630 | 546 | 102.0 | 32.5 | 1080 | 378 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for June, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 78.4 (39.5) | 24.9 (12.5) | 830 (418) | 278 (140) | 60.6 (25.7) | 19.2 (8.2) | 643 (273) | 225 (96) |
| 2 | 88.2 (40.0) | 28.0 (12.7) | 934 (423) | 313 (142) | 71.2 (28.3) | 22.6 (9.0) | 755 (300) | 264 (105) |
| 3 | 66.5 (31.9) | 21.1 (10.1) | 704 (338) | 236 (113) | 57.4 (22.6) | 18.2 (7.2) | 609 (240) | 213 (84) |
| 4 | 67.8 (34.2) | 21.5 (10.9) | 718 (362) | 240 (121) | 51.6 (20.9) | 16.4 (6.6) | 548 (221) | 192 (78) |
| 5 | 65.8 (30.8) | 20.9 (9.8) | 697 (326) | 233 (109) | 52.3 (23.4) | 16.6 (7.4) | 555 (248) | 194 (87) |
| 6 | 66.1 (25.3) | 21.0 (8.0) | 700 (268) | 234 (90) | 53.1 (17.3) | 16.9 (5.5) | 564 (183) | 197 (64) |
| 7 | 92.5 (35.4) | 29.4 (11.2) | 979 (375) | 328 (125) | 72.2 (30.2) | 22.9 (9.6) | 767 (321) | 268 (112) |
| 8 | 103.0 (49.4) | 32.8 (15.7) | 1100 (524) | 367 (175) | 80.5 (32.1) | 25.5 (10.2) | 855 (341) | 299 (119) |
| 9 | 86.0 (48.1) | 27.3 (15.3) | 911 (510) | 305 (171) | 69.7 (34.0) | 22.1 (10.8) | 741 (361) | 259 (126) |
| 10 | 81.7 (38.5) | 25.9 (12.2) | 866 (408) | 290 (137) | 69.2 (28.8) | 22.0 (9.1) | 735 (306) | 257 (107) |
| 11 | 81.2 (33.6) | 25.8 (10.7) | 861 (356) | 288 (119) | 72.9 (24.5) | 23.1 (7.8) | 775 (260) | 271 (91) |
| 12 | 98.0 (50.4) | 31.1 (16.0) | 1040 (534) | 348 (179) | 79.4 (31.6) | 25.2 (10.0) | 844 (336) | 295 (118) |
| 13 | 93.0 (42.6) | 29.5 (13.5) | 986 (452) | 330 (151) | 81.3 (30.2) | 25.8 (9.6) | 865 (322) | 303 (113) |
| 14 | 78.2 (36.5) | 24.8 (11.6) | 829 (387) | 278 (130) | 68.5 (26.5) | 21.7 (8.4) | 728 (282) | 255 (99) |
| 15 | 61.8 (18.2) | 19.6 (5.8) | 655 (193) | 219 (65) | 52.4 (15.4) | 16.6 (4.9) | 558 (164) | 195 (57) |
| 16 | 83.9 (25.4) | 26.6 (8.1) | 889 (269) | 298 (90) | 67.3 (21.6) | 21.4 (6.9) | 716 (230) | 250 (80) |
| 17 | 91.7 (29.7) | 29.1 (9.4) | 973 (315) | 328 (106) | 81.4 (21.2) | 25.8 (6.7) | 866 (226) | 296 (77) |
| 18 | 140.0 (46.8) | 44.5 (14.9) | 1490 (496) | 506 (169) | 117.0 (32.2) | 37.1 (10.2) | 1240 (343) | 416 (114) |
| 19 | 98.9 (12.8) | 31.4 (4.1) | 1050 (136) | 357 (46) | 96.1 (7.3) | 30.5 (2.3) | 1020 (78) | 342 (26) |
| 20 | 93.8 (9.7) | 29.8 (3.1) | 995 (103) | 339 (35) | 91.7 (6.1) | 29.1 (1.9) | 976 (65) | 326 (22) |
| 21 | 59.2 (12.8) | 18.8 (4.1) | 628 (136) | 214 (46) | 62.3 (10.9) | 19.8 (3.5) | 663 (116) | 222 (39) |
| 22 | 43.3 (18.1) | 13.8 (5.7) | 460 (192) | 156 (65) | 42.5 (13.5) | 13.5 (4.3) | 453 (143) | 151 (48) |
| 23 | 51.1 (19.2) | 16.2 (6.1) | 542 (203) | 185 (69) | 48.7 (15.6) | 15.5 (4.9) | 519 (166) | 173 (55) |
| 24 | 56.8 (24.8) | 18.0 (7.9) | 603 (263) | 205 (90) | 50.0 (17.1) | 15.9 (5.4) | 533 (182) | 178 (61) |
| 25 | 64.0 (25.6) | 20.3 (8.1) | 679 (272) | 231 (93) | 51.6 (17.2) | 16.4 (5.5) | 550 (183) | 184 (61) |
| 26 | 64.0 (22.2) | 20.3 (7.0) | 679 (235) | 231 (80) | 57.1 (8.7) | 18.1 (2.8) | 609 (93) | 203 (31) |
| 27 | 56.3 (18.1) | 17.9 (5.7) | 597 (192) | 200 (64) | 50.2 (11.1) | 15.9 (3.5) | 535 (118) | 179 (39) |
| 28 | 53.7 (20.8) | 17.1 (6.6) | 570 (221) | 188 (73) | 42.6 (13.9) | 13.5 (4.4) | 454 (148) | 152 (49) |
| 29 | 44.6 (12.2) | 14.2 (3.9) | 473 (129) | 156 (43) | 40.3 (6.7) | 12.8 (2.1) | 429 (71) | 143 (24) |
| 30 | 39.6 (16.5) | 12.6 (5.2) | 421 (175) | 139 (58) | 32.1 (9.8) | 10.2 (3.1) | 343 (105) | 115 (35) |
| Mean | 75.0 | 23.8 | 795 | 267 | 64.1 | 20.4 | 682 | 234 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 21.4 | 6.8 | 227 | 77 | 18.2 | 5.8 | 193 | 66 |
| Min | 39.6 | 12.6 | 421 | 139 | 32.1 | 10.2 | 343 | 115 |
| Max | 140.0 | 44.5 | 1490 | 506 | 117.0 | 37.1 | 1240 | 416 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for July, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 41.3 (17.2) | 13.1 (5.5) | 439 (182) | 145 (60) | 34.0 (12.3) | 10.8 (3.9) | 363 (131) | 121 (44) |
| 2 | 37.2 (12.4) | 11.8 (3.9) | 395 (132) | 130 (44) | 31.6 (8.5) | 10.0 (2.7) | 337 (91) | 113 (30) |
| 3 | 34.1 (16.9) | 10.8 (5.4) | 362 (179) | 119 (59) | 25.3 (8.7) | 8.1 (2.8) | 270 (93) | 90 (31) |
| 4 | 39.1 (17.0) | 12.4 (5.4) | 415 (180) | 137 (59) | 30.1 (9.7) | 9.5 (3.1) | 321 (104) | 107 (35) |
| 5 | 40.1 (11.9) | 12.7 (3.8) | 426 (126) | 141 (42) | 30.8 (6.3) | 9.8 (2.0) | 329 (67) | 110 (23) |
| 6 | 57.5 (21.9) | 18.3 (7.0) | 611 (233) | 202 (77) | 41.6 (12.9) | 13.2 (4.1) | 444 (137) | 148 (46) |
| 7 | 66.2 (28.7) | 21.0 (9.1) | 703 (305) | 232 (101) | 49.8 (15.8) | 15.8 (5.0) | 532 (169) | 178 (57) |
| 8 | 76.7 (27.7) | 24.3 (8.8) | 815 (294) | 269 (97) | 59.1 (18.7) | 18.8 (5.9) | 632 (200) | 211 (67) |
| 9 | 59.3 (18.0) | 18.8 (5.7) | 630 (191) | 208 (63) | 48.0 (7.8) | 15.2 (2.5) | 513 (83) | 171 (28) |
| 10 | 62.8 (31.0) | 19.9 (9.8) | 667 (329) | 220 (109) | 44.7 (15.2) | 14.2 (4.8) | 478 (162) | 160 (54) |
| 11 | 77.3 (28.7) | 24.5 (9.1) | 821 (305) | 271 (101) | 50.9 (15.2) | 16.2 (4.8) | 544 (162) | 182 (54) |
| 12 | 81.9 (6.3) | 26.0 (2.0) | 871 (67) | 287 (22) | 61.0 (3.7) | 19.4 (1.2) | 653 (39) | 218 (13) |
| 13 | 59.4 (14.9) | 18.9 (4.7) | 631 (158) | 208 (52) | 50.3 (8.8) | 16.0 (2.8) | 538 (94) | 180 (32) |
| 14 | 60.7 (26.7) | 19.3 (8.5) | 645 (283) | 213 (94) | 47.6 (16.7) | 15.1 (5.3) | 509 (179) | 170 (60) |
| 15 | 61.7 (24.7) | 19.6 (7.8) | 656 (262) | 217 (87) | 49.1 (14.3) | 15.6 (4.5) | 525 (153) | 175 (51) |
| 16 | 66.9 (7.2) | 21.2 (2.3) | 711 (76) | 235 (25) | 52.2 (5.0) | 16.6 (1.6) | 559 (53) | 187 (18) |
| 17 | 70.5 (13.5) | 22.4 (4.3) | 749 (143) | 247 (47) | 57.6 (5.6) | 18.3 (1.8) | 617 (60) | 206 (20) |
| 18 | 59.7 (18.7) | 19.0 (5.9) | 635 (199) | 210 (66) | 52.4 (12.4) | 16.6 (3.9) | 561 (132) | 187 (44) |
| 19 | 70.7 (23.6) | 22.5 (7.5) | 752 (251) | 248 (83) | 51.5 (18.1) | 16.4 (5.7) | 552 (194) | 184 (65) |
| 20 | 51.5 (15.7) | 16.4 (5.0) | 548 (167) | 181 (55) | 40.6 (12.8) | 12.9 (4.1) | 435 (137) | 145 (46) |
| 21 | 91.9 (28.9) | 29.2 (9.2) | 977 (308) | 322 (102) | 70.0 (19.5) | 22.2 (6.2) | 750 (209) | 251 (70) |
| 22 | 43.4 (29.1) | 13.8 (9.3) | 461 (310) | 152 (102) | 75.9 (42.8) | 24.1 (13.6) | 813 (458) | 272 (153) |
| 23 | 34.1 (30.2) | 10.8 (9.6) | 362 (322) | 120 (106) | 37.3 (13.3) | 11.8 (4.2) | 400 (142) | 134 (48) |
| 24 | 18.1 (3.3) | 5.8 (1.0) | 193 (35) | 64 (12) | 17.8 (2.6) | 5.7 (0.8) | 191 (28) | 64 (9) |
| 25 | 25.7 (10.9) | 8.2 (3.5) | 273 (116) | 89 (37) | 23.0 (8.0) | 7.3 (2.5) | 246 (85) | 82 (29) |
| 26 | 51.3 (16.3) | 16.3 (5.2) | 546 (174) | 175 (56) | 40.4 (11.0) | 12.8 (3.5) | 433 (118) | 145 (40) |
| 27 | 64.6 (13.0) | 20.5 (4.1) | 687 (139) | 220 (45) | 55.2 (7.9) | 17.5 (2.5) | 592 (85) | 198 (29) |
| 28 | 80.6 (31.6) | 25.6 (10.0) | 857 (336) | 275 (108) | 67.1 (25.7) | 21.3 (8.2) | 720 (276) | 241 (93) |
| 29 | 80.0 (23.1) | 25.4 (7.3) | 851 (246) | 273 (79) | 69.8 (17.2) | 22.1 (5.5) | 748 (184) | 251 (62) |
| 30 | 88.8 (6.6) | 28.2 (2.1) | 945 (70) | 303 (22) | 78.0 (7.3) | 24.8 (2.3) | 837 (78) | 281 (26) |
| 31 | 76.6 (6.5) | 24.3 (2.1) | 815 (69) | 261 (22) | 65.7 (4.7) | 20.9 (1.5) | 705 (51) | 236 (17) |
| Mean | 59.0 | 18.7 | 627 | 206 | 48.7 | 15.4 | 521 | 174 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 18.6 | 5.9 | 198 | 64 | 15.3 | 4.8 | 164 | 55 |
| Min | 18.1 | 5.8 | 193 | 64 | 17.8 | 5.7 | 191 | 64 |
| Max | 91.9 | 29.2 | 977 | 322 | 78.0 | 24.8 | 837 | 281 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for August, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 77.8 (5.2) | 24.7 (1.7) | 828 (56) | 265 (18) | | | | |
| 2 | 87.1 (2.4) | 27.6 (0.8) | 927 (26) | 297 (8) | | | | |
| 3 | 90.7 (7.2) | 28.8 (2.3) | 965 (77) | 309 (25) | | | | |
| 4 | 88.6 (11.6) | 28.1 (3.7) | 943 (124) | 302 (40) | | | | |
| 5 | 90.9 (8.7) | 28.9 (2.8) | 968 (93) | 310 (30) | | | | |
| 6 | 63.0 (12.2) | 20.0 (3.9) | 671 (130) | 215 (42) | | | | |
| 7 | 73.0 (25.8) | 23.2 (8.2) | 777 (275) | 249 (88) | 71.6 (12.7) | 22.7 (4.0) | 770 (136) | 258 (46) |
| 8 | 68.5 (17.4) | 21.8 (5.5) | 730 (185) | 234 (59) | 72.3 (8.4) | 23.0 (2.7) | 778 (90) | 261 (30) |
| 9 | 85.5 (11.5) | 27.2 (3.7) | 911 (122) | 292 (39) | 75.4 (14.3) | 23.9 (4.6) | 810 (154) | 272 (52) |
| 10 | 78.4 (7.8) | 24.9 (2.5) | 835 (83) | 268 (27) | 69.5 (6.6) | 22.1 (2.1) | 747 (71) | 250 (24) |
| 11 | 66.0 (6.2) | 21.0 (2.0) | 703 (66) | 225 (21) | 56.9 (6.8) | 18.0 (2.2) | 612 (73) | 205 (24) |
| 12 | 55.5 (8.0) | 17.6 (2.5) | 591 (85) | 189 (27) | 48.8 (3.9) | 15.5 (1.2) | 526 (42) | 176 (14) |
| 13 | 62.1 (10.9) | 19.7 (3.5) | 662 (116) | 212 (37) | 61.1 (10.0) | 19.4 (3.2) | 658 (107) | 221 (36) |
| 14 | 66.6 (8.2) | 21.1 (2.6) | 710 (87) | 227 (28) | 67.6 (6.2) | 21.5 (2.0) | 728 (67) | 244 (23) |
| 15 | 79.4 (10.2) | 25.2 (3.3) | 846 (109) | 271 (35) | 80.7 (6.7) | 25.6 (2.1) | 870 (73) | 291 (24) |
| 16 | 77.0 (23.8) | 24.4 (7.5) | 820 (253) | 263 (81) | 79.5 (18.5) | 25.2 (5.9) | 857 (200) | 287 (67) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 83.9 (5.9) | 26.6 (1.9) | 895 (63) | 287 (20) | 86.6 (7.1) | 27.5 (2.3) | 933 (77) | 313 (26) |
| 20 | | | | | | | | |
| 21 | 69.6 (4.0) | 22.1 (1.3) | 743 (42) | 238 (14) | 74.2 (4.4) | 23.5 (1.4) | 800 (47) | 268 (16) |
| 22 | 63.3 (10.8) | 20.1 (3.4) | 675 (115) | 217 (37) | 70.2 (6.7) | 22.3 (2.1) | 757 (73) | 250 (25) |
| 23 | 58.0 (19.0) | 18.4 (6.0) | 618 (202) | 199 (65) | 64.2 (16.6) | 20.4 (5.3) | 693 (179) | 226 (58) |
| 24 | 72.0 (19.8) | 22.8 (6.3) | 767 (211) | 247 (68) | 75.5 (19.5) | 24.0 (6.2) | 815 (211) | 266 (69) |
| 25 | 63.5 (15.0) | 20.1 (4.8) | 677 (160) | 217 (51) | 73.4 (13.0) | 23.3 (4.1) | 792 (141) | 258 (46) |
| 26 | 71.6 (15.9) | 22.7 (5.0) | 764 (169) | 245 (54) | 80.9 (13.8) | 25.7 (4.4) | 873 (149) | 285 (49) |
| 27 | 66.0 (4.7) | 21.0 (1.5) | 704 (50) | 226 (16) | 71.3 (7.5) | 22.6 (2.4) | 770 (81) | 251 (27) |
| 28 | 60.8 (3.3) | 19.3 (1.1) | 649 (35) | 209 (11) | 66.9 (4.2) | 21.2 (1.3) | 722 (46) | 236 (15) |
| 29 | 65.3 (6.9) | 20.7 (2.2) | 697 (74) | 224 (24) | 67.9 (6.9) | 21.5 (2.2) | 733 (75) | 239 (25) |
| 30 | 51.3 (11.9) | 16.3 (3.8) | 547 (126) | 176 (41) | 51.7 (12.5) | 16.4 (4.0) | 558 (136) | 182 (44) |
| 31 | 31.5 (8.1) | 10.0 (2.6) | 336 (87) | 108 (28) | 34.8 (8.4) | 11.1 (2.7) | 376 (91) | 123 (30) |
| Mean | 70.3 | 22.3 | 749 | 240 | 68.2 | 21.7 | 735 | 244 |
| n | 28 | 28 | 28 | 28 | 22 | 22 | 22 | 22 |
| SD | 13.0 | 4.1 | 139 | 44 | 11.6 | 3.7 | 125 | 42 |
| Min | 31.5 | 10.0 | 336 | 108 | 34.8 | 11.1 | 376 | 123 |
| Max | 90.9 | 28.9 | 968 | 310 | 86.6 | 27.5 | 933 | 313 |

**Table E9. Daily means (SD) of NH3 emissions at Site NC2B for September, 2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ | $kg \cdot d^{-1}$ | $g \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $g \cdot d^{-1} AU^{-1}$ |
| 1 | 52.1 (24.5) | 16.5 (7.8) | 555 (261) | 179 (84) | 46.9 (17.2) | 14.9 (5.5) | 507 (186) | 165 (61) |
| 2 | 40.2 (19.3) | 12.8 (6.1) | 429 (206) | 138 (66) | 38.5 (15.1) | 12.2 (4.8) | 416 (163) | 136 (53) |
| 3 | 44.5 (22.2) | 14.1 (7.0) | 475 (237) | 153 (76) | 42.8 (17.0) | 13.6 (5.4) | 463 (184) | 151 (60) |
| 4 | 47.1 (25.8) | 15.0 (8.2) | 503 (276) | 162 (89) | 44.0 (18.6) | 14.0 (5.9) | 476 (201) | 155 (66) |
| 5 | 61.9 (29.1) | 19.6 (9.2) | 661 (310) | 212 (100) | 60.0 (25.9) | 19.0 (8.2) | 649 (280) | 212 (91) |
| 6 | 49.5 (23.7) | 15.7 (7.5) | 529 (253) | 170 (81) | 51.0 (16.7) | 16.2 (5.3) | 552 (181) | 180 (59) |
| 7 | 53.9 (14.1) | 17.1 (4.5) | 575 (150) | 185 (48) | 54.6 (11.2) | 17.3 (3.6) | 591 (121) | 193 (40) |
| 8 | 54.4 (12.9) | 17.3 (4.1) | 581 (138) | 187 (44) | 62.9 (9.5) | 20.0 (3.0) | 681 (103) | 222 (34) |
| 9 | 69.1 (33.0) | 21.9 (10.5) | 738 (352) | 237 (113) | 60.1 (19.7) | 19.1 (6.3) | 651 (213) | 212 (70) |
| 10 | 45.9 (15.6) | 14.6 (4.9) | 490 (166) | 157 (53) | 48.0 (14.0) | 15.3 (4.5) | 521 (152) | 170 (50) |
| 11 | 73.6 (35.2) | 23.4 (11.2) | 786 (376) | 253 (121) | 68.8 (25.8) | 21.8 (8.2) | 745 (280) | 243 (91) |
| 12 | 69.0 (36.1) | 21.9 (11.4) | 737 (385) | 237 (124) | 70.7 (29.7) | 22.5 (9.4) | 767 (321) | 250 (105) |
| 13 | 64.2 (36.2) | 20.4 (11.5) | 685 (386) | 220 (124) | 64.0 (29.1) | 20.3 (9.2) | 694 (316) | 226 (103) |
| 14 | 66.0 (35.8) | 21.0 (11.4) | 706 (382) | 227 (123) | 67.4 (29.3) | 21.4 (9.3) | 731 (318) | 238 (104) |
| 15 | | | | | 68.1 (25.5) | 21.6 (8.1) | 739 (276) | 241 (90) |
| 16 | 48.8 (24.3) | 15.5 (7.7) | 521 (260) | 168 (83) | 51.2 (17.1) | 16.3 (5.4) | 556 (186) | 181 (61) |
| 17 | 51.0 (16.0) | 16.2 (5.1) | 545 (171) | 176 (55) | 53.9 (15.0) | 17.1 (4.8) | 585 (163) | 191 (53) |
| 18 | 57.0 (18.7) | 18.1 (5.9) | 609 (200) | 197 (65) | 62.2 (17.6) | 19.7 (5.6) | 675 (192) | 221 (63) |
| 19 | 75.6 (41.1) | 24.0 (13.0) | 808 (439) | 261 (142) | 81.9 (37.0) | 26.0 (11.7) | 889 (401) | 291 (131) |
| 20 | 64.1 (36.1) | 20.4 (11.5) | 685 (386) | 222 (125) | 69.0 (29.6) | 21.9 (9.4) | 749 (321) | 245 (105) |
| 21 | 72.4 (39.5) | 23.0 (12.6) | 773 (423) | 250 (137) | 82.3 (37.1) | 26.1 (11.8) | 894 (403) | 292 (132) |
| 22 | 71.6 (29.5) | 22.7 (9.4) | 765 (315) | 247 (102) | 76.9 (24.4) | 24.4 (7.7) | 835 (265) | 273 (87) |
| 23 | 65.8 (24.1) | 20.9 (7.7) | 704 (258) | 227 (83) | 71.4 (20.5) | 22.7 (6.5) | 776 (223) | 254 (73) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 59.0 | 18.7 | 630 | 203 | 60.7 | 19.3 | 658 | 215 |
| n | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 |
| SD | 10.5 | 3.3 | 112 | 36 | 12.1 | 3.8 | 132 | 43 |
| Min | 40.2 | 12.8 | 429 | 138 | 38.5 | 12.2 | 416 | 136 |
| Max | 75.6 | 24.0 | 808 | 261 | 82.3 | 26.1 | 894 | 292 |

## Table E10. Hydrogen sulfide concentrations.

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for September, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 5 | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | 4 (8) | 5 (11) | 6 (3) | 8 (4) | 6 (3) | 8 (5) |
| 30 | 1 (1) | 1 (1) | 5 (3) | 7 (4) | 5 (3) | 7 (4) |
| Mean | 2 | 3 | 5 | 8 | 5 | 8 |
| n | 2 | 2 | 2 | 2 | 2 | 2 |
| SD | 2 | 2 | 0 | 0 | 1 | 1 |
| Min | 1 | 1 | 5 | 7 | 5 | 7 |
| Max | 4 | 5 | 6 | 8 | 6 | 8 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for October, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (2) | 2 (3) | 4 (3) | 5 (4) | 4 (3) | 6 (4) |
| 2 | 2 (1) | 2 (2) | 4 (2) | 6 (3) | 4 (2) | 6 (3) |
| 3 | 0 (1) | 0 (2) | 3 (2) | 5 (3) | 3 (1) | 5 (2) |
| 4 | 1 (1) | 1 (2) | 2 (1) | 4 (2) | 3 (1) | 4 (1) |
| 5 | 1 (1) | 2 (2) | 3 (1) | 4 (2) | 3 (1) | 5 (1) |
| 6 | 2 (1) | 2 (2) | 3 (1) | 5 (2) | 5 (4) | 7 (5) |
| 7 | 0 (1) | 1 (1) | 2 (2) | 4 (2) | 4 (3) | 5 (4) |
| 8 | 0 (0) | 0 (1) | 2 (1) | 3 (1) | 5 (4) | 7 (6) |
| 9 | 0 (1) | 0 (1) | 3 (2) | 4 (3) | 4 (3) | 5 (5) |
| 10 | 1 (4) | 2 (6) | 3 (3) | 4 (4) | 3 (2) | 4 (3) |
| 11 | 0 (1) | 0 (1) | 5 (3) | 7 (4) | 5 (2) | 7 (3) |
| 12 | 0 (0) | -1 (0) | 7 (4) | 10 (6) | 6 (4) | 8 (5) |
| 13 | 0 (1) | 0 (1) | 7 (4) | 10 (6) | 7 (4) | 10 (5) |
| 14 | 0 (1) | 0 (1) | 7 (4) | 10 (6) | 7 (4) | 10 (6) |
| 15 | 1 (3) | 2 (4) | 7 (5) | 10 (6) | 7 (4) | 10 (6) |
| 16 | 1 (1) | | | | | |
| 17 | 1 (2) | | | | | |
| 18 | 0 (1) | 1 (2) | 5 (4) | 7 (6) | 6 (5) | 8 (7) |
| 19 | 0 (0) | 0 (1) | 2 (1) | 3 (1) | 2 (1) | 3 (1) |
| 20 | 0 (0) | 0 (1) | 3 (2) | 4 (3) | 3 (2) | 5 (3) |
| 21 | 1 (1) | 1 (1) | 5 (3) | 7 (5) | 6 (4) | 9 (6) |
| 22 | 0 (1) | 0 (1) | 4 (3) | 5 (4) | 5 (3) | 7 (5) |
| 23 | 0 (1) | 0 (2) | 3 (2) | 4 (3) | 4 (3) | 5 (4) |
| 24 | 0 (0) | 0 (0) | 3 (1) | 4 (1) | 3 (1) | 4 (1) |
| 25 | 1 (0) | 1 (1) | 5 (1) | 8 (2) | 5 (1) | 7 (2) |
| 26 | 0 (1) | 0 (1) | 4 (2) | 6 (2) | 4 (1) | 6 (2) |
| 27 | 0 (0) | 0 (0) | 4 (2) | 6 (3) | 4 (2) | 6 (3) |
| 28 | 0 (1) | 0 (1) | 9 (2) | 12 (3) | 9 (3) | 13 (4) |
| 29 | 0 (1) | 1 (1) | 10 (3) | 14 (4) | 10 (3) | 14 (4) |
| 30 | 0 (0) | 0 (1) | 9 (4) | 13 (5) | 9 (3) | 13 (5) |
| 31 | 0 (1) | 0 (1) | 8 (4) | 11 (6) | 9 (5) | 13 (7) |
| Mean | 0 | 1 | 5 | 7 | 5 | 7 |
| n | 31 | 29 | 29 | 29 | 29 | 29 |
| SD | 1 | 1 | 2 | 3 | 2 | 3 |
| Min | 0 | -1 | 2 | 3 | 2 | 3 |
| Max | 2 | 2 | 10 | 14 | 10 | 14 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for November, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (1) | 7 (4) | 10 (6) | 7 (4) | 10 (6) |
| 2 | 2 (2) | 3 (3) | 10 (3) | 15 (4) | 10 (3) | 14 (4) |
| 3 | 0 (0) | -1 (1) | 10 (3) | 14 (4) | 12 (4) | 17 (6) |
| 4 | 0 (1) | -1 (1) | 10 (3) | 15 (4) | 13 (4) | 19 (6) |
| 5 | 0 (0) | 0 (0) | 9 (3) | 13 (4) | 12 (5) | 17 (7) |
| 6 | -1 (0) | -1 (1) | 9 (2) | 13 (3) | 11 (3) | 15 (4) |
| 7 | 0 (0) | 0 (1) | 12 (2) | 16 (3) | 14 (3) | 19 (4) |
| 8 | 1 (1) | 1 (2) | 13 (2) | 19 (2) | 14 (4) | 20 (6) |
| 9 | 0 (0) | 0 (1) | 12 (2) | 17 (3) | 14 (3) | 21 (4) |
| 10 | 1 (2) | 1 (3) | 13 (2) | 18 (2) | 16 (2) | 23 (3) |
| 11 | 0 (1) | 0 (1) | 12 (2) | 18 (3) | 17 (3) | 24 (4) |
| 12 | 0 (1) | 1 (2) | 11 (3) | 16 (5) | 15 (5) | 21 (7) |
| 13 | 0 (1) | 0 (1) | 8 (4) | 12 (5) | 11 (4) | 15 (6) |
| 14 | 0 (0) | | | | | |
| 15 | 0 (0) | 0 (1) | 10 (3) | 15 (4) | 12 (4) | 17 (5) |
| 16 | 0 (1) | 0 (1) | 13 (2) | 19 (3) | 17 (2) | 24 (3) |
| 17 | 1 (1) | 1 (2) | 13 (3) | 19 (4) | 16 (3) | 23 (4) |
| 18 | 0 (1) | 0 (2) | 13 (4) | 18 (6) | 15 (5) | 22 (7) |
| 19 | 1 (1) | 1 (1) | 14 (1) | 20 (2) | 15 (3) | 22 (4) |
| 20 | 1 (1) | 1 (2) | 12 (3) | 17 (5) | 14 (4) | 19 (5) |
| 21 | | | | | 10 (6) | 14 (9) |
| 22 | | | | | 5 (3) | 8 (4) |
| 23 | | | | | 11 (3) | 15 (4) |
| 24 | | | | | 12 (2) | 17 (3) |
| 25 | | | | | 12 (2) | 17 (3) |
| 26 | | | | | 9 (3) | 13 (4) |
| 27 | 0 (0) | -1 (1) | 9 (3) | 13 (4) | 9 (3) | 13 (4) |
| 28 | 0 (1) | 0 (1) | 12 (2) | 18 (2) | 12 (2) | 18 (3) |
| 29 | 2 (0) | | | | | |
| 30 | 0 (0) | 0 (1) | 13 (1) | 18 (2) | 12 (2) | 17 (3) |
| Mean | 0 | 0 | 11 | 16 | 12 | 18 |
| n | 24 | 22 | 22 | 22 | 28 | 28 |
| SD | 1 | 1 | 2 | 3 | 3 | 4 |
| Min | -1 | -1 | 7 | 10 | 5 | 8 |
| Max | 2 | 3 | 14 | 20 | 17 | 24 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for December, 2007.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (1) | 0 (1) | 13 (2) | 19 (2) | 13 (2) | 18 (3) |
| 2 | 0 (1) | 0 (1) | 13 (1) | 19 (2) | 12 (2) | 18 (2) |
| 3 | 0 (0) | 0 (0) | 13 (3) | 19 (5) | 11 (3) | 15 (4) |
| 4 | 0 (1) | 0 (1) | 16 (1) | 23 (2) | 14 (1) | 20 (2) |
| 5 | 1 (1) | 2 (2) | 17 (2) | 25 (2) | 15 (1) | 21 (2) |
| 6 | 1 (1) | | 20 (2) | 28 (2) | 17 (2) | 24 (3) |
| 7 | 0 (1) | | 20 (3) | 29 (4) | 17 (2) | 24 (3) |
| 8 | 0 (1) | 0 (1) | 14 (5) | 19 (7) | 12 (4) | 17 (6) |
| 9 | 1 (1) | | | | | |
| 10 | 1 (1) | | | | | |
| 11 | 5 (9) | 7 (12) | 13 (2) | 19 (2) | 13 (2) | 19 (3) |
| 12 | 0 (1) | 0 (1) | 7 (4) | 11 (5) | 8 (4) | 11 (5) |
| 13 | 0 (0) | 1 (0) | 7 (3) | 10 (4) | 7 (2) | 10 (3) |
| 14 | 1 (1) | 1 (1) | 8 (2) | 12 (3) | 9 (3) | 13 (4) |
| 15 | 2 (1) | 2 (2) | 13 (2) | 18 (3) | 12 (1) | 18 (2) |
| 16 | 0 (0) | 0 (0) | 13 (1) | 18 (2) | 13 (1) | 18 (2) |
| 17 | 0 (0) | 1 (1) | 11 (1) | 16 (2) | 12 (1) | 18 (1) |
| 18 | 0 (1) | 1 (1) | 10 (2) | 15 (2) | 11 (1) | 16 (2) |
| 19 | 1 (1) | 1 (2) | 11 (1) | 16 (1) | 13 (2) | 19 (2) |
| 20 | 0 (0) | 0 (1) | 11 (2) | 16 (2) | 13 (2) | 18 (3) |
| 21 | 1 (0) | 2 (1) | 12 (1) | 17 (2) | 14 (1) | 19 (2) |
| 22 | 1 (1) | 1 (1) | 10 (1) | 14 (2) | 11 (1) | 16 (2) |
| 23 | 0 (0) | 0 (1) | 8 (3) | 11 (4) | 9 (3) | 13 (4) |
| 24 | 1 (2) | 1 (2) | 9 (2) | 13 (3) | 10 (2) | 14 (3) |
| 25 | 1 (1) | 1 (2) | 10 (2) | 14 (3) | 9 (2) | 13 (3) |
| 26 | 2 (2) | 2 (3) | 10 (2) | 15 (3) | 10 (2) | 14 (3) |
| 27 | 0 (0) | 0 (0) | 10 (2) | 15 (2) | 10 (2) | 14 (3) |
| 28 | 0 (0) | 0 (1) | 9 (2) | 13 (3) | 10 (2) | 14 (2) |
| 29 | 0 (0) | 0 (0) | 7 (2) | 9 (3) | 6 (2) | 9 (3) |
| 30 | 1 (1) | 1 (1) | 12 (2) | 17 (3) | 11 (2) | 16 (3) |
| 31 | 0 (0) | | | | | |
| Mean | 1 | 1 | 12 | 17 | 11 | 16 |
| n | 31 | 26 | 28 | 28 | 28 | 28 |
| SD | 1 | 1 | 3 | 5 | 3 | 4 |
| Min | 0 | 0 | 7 | 9 | 6 | 9 |
| Max | 5 | 7 | 20 | 29 | 17 | 24 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for January, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | | | | | |
| 2 | 0 (0) | | | | | |
| 3 | 0 (0) | | | | | |
| 4 | 0 (0) | 0 (1) | 12 (1) | 17 (2) | 10 (3) | 14 (4) |
| 5 | 0 (1) | 0 (1) | 12 (2) | 17 (2) | 13 (2) | 18 (3) |
| 6 | 0 (0) | 1 (1) | 8 (2) | 12 (3) | 9 (3) | 13 (4) |
| 7 | 1 (1) | 2 (2) | 8 (4) | 12 (5) | 9 (4) | 12 (5) |
| 8 | 0 (0) | 0 (0) | 6 (3) | 9 (4) | 6 (2) | 8 (3) |
| 9 | 0 (0) | 0 (0) | 6 (2) | 10 (3) | 6 (2) | 9 (4) |
| 10 | 1 (0) | 1 (1) | 10 (3) | 15 (4) | 10 (2) | 14 (2) |
| 11 | 0 (0) | 0 (0) | 6 (2) | 8 (3) | 5 (2) | 8 (3) |
| 12 | 1 (1) | 1 (1) | 11 (2) | 15 (2) | 11 (2) | 15 (3) |
| 13 | 1 (1) | 1 (1) | 12 (1) | 17 (2) | 12 (1) | 17 (2) |
| 14 | 1 (2) | 2 (3) | 12 (2) | 18 (2) | 12 (2) | 17 (2) |
| 15 | 0 (1) | 1 (1) | 13 (1) | 19 (2) | 13 (2) | 19 (3) |
| 16 | 1 (1) | 1 (1) | 13 (2) | 19 (2) | 13 (2) | 19 (3) |
| 17 | 1 (1) | 2 (2) | 12 (2) | 17 (2) | 12 (2) | 18 (3) |
| 18 | 0 (0) | 0 (0) | 11 (1) | 16 (1) | 11 (1) | 16 (1) |
| 19 | 0 (0) | 0 (1) | 11 (1) | 15 (2) | 12 (1) | 17 (2) |
| 20 | 0 (0) | 0 (1) | 10 (2) | 15 (2) | 10 (2) | 15 (3) |
| 21 | 1 (1) | 1 (2) | 11 (1) | 15 (2) | 13 (2) | 18 (3) |
| 22 | 1 (1) | 1 (2) | 12 (1) | 16 (2) | 12 (1) | 17 (2) |
| 23 | 1 (2) | 1 (2) | 11 (1) | 16 (2) | 11 (2) | 16 (2) |
| 24 | 3 (4) | 4 (6) | 12 (2) | 18 (2) | 12 (2) | 18 (3) |
| 25 | 1 (2) | 2 (2) | 13 (1) | 18 (2) | 14 (1) | 20 (2) |
| 26 | 0 (0) | | | | | |
| 27 | 0 (0) | | | | | |
| 28 | 2 (4) | 3 (5) | 13 (2) | 18 (3) | 13 (2) | 19 (3) |
| 29 | 2 (3) | 3 (5) | 11 (2) | 15 (3) | 11 (3) | 16 (4) |
| 30 | 0 (1) | 0 (1) | 10 (3) | 15 (4) | 10 (3) | 15 (4) |
| 31 | 2 (1) | 3 (1) | 12 (1) | 18 (2) | 12 (1) | 18 (2) |
| Mean | 1 | 1 | 11 | 15 | 11 | 16 |
| n | 31 | 26 | 26 | 26 | 26 | 26 |
| SD | 1 | 1 | 2 | 3 | 2 | 3 |
| Min | 0 | 0 | 6 | 8 | 5 | 8 |
| Max | 3 | 4 | 13 | 19 | 14 | 20 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for February, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 1 (1) | 11 (3) | 16 (4) | 11 (2) | 15 (4) |
| 2 | 2 (5) | 3 (7) | 11 (2) | 16 (3) | 11 (2) | 16 (3) |
| 3 | 4 (4) | 5 (6) | 11 (3) | 16 (5) | 11 (3) | 15 (5) |
| 4 | 4 (2) | 5 (3) | 12 (2) | 17 (3) | 12 (2) | 17 (3) |
| 5 | 6 (1) | 8 (1) | 12 (3) | 17 (4) | 11 (3) | 16 (4) |
| 6 | 4 (3) | 6 (4) | 7 (4) | 10 (6) | 6 (4) | 9 (6) |
| 7 | 2 (4) | 3 (6) | 8 (3) | 12 (4) | 8 (3) | 11 (4) |
| 8 | 16 (5) | 23 (7) | | | | |
| 9 | 8 (10) | 11 (14) | 10 (4) | 14 (5) | 9 (3) | 13 (4) |
| 10 | 0 (0) | 0 (0) | 9 (2) | 13 (3) | 9 (2) | 12 (3) |
| 11 | 0 (0) | 0 (1) | 12 (3) | 17 (4) | 11 (3) | 16 (4) |
| 12 | 1 (0) | 1 (1) | 12 (3) | 17 (4) | 12 (3) | 17 (4) |
| 13 | 1 (1) | 1 (1) | 9 (3) | 14 (5) | 10 (4) | 14 (5) |
| 14 | 0 (1) | 0 (1) | 12 (2) | 18 (3) | 13 (2) | 18 (3) |
| 15 | 0 (0) | 1 (0) | 12 (3) | 17 (4) | 12 (3) | 17 (4) |
| 16 | 2 (1) | 3 (1) | 13 (2) | 18 (3) | 13 (2) | 18 (3) |
| 17 | 1 (1) | | | | | |
| 18 | 0 (0) | 0 (0) | 7 (3) | 10 (4) | 7 (3) | 10 (4) |
| 19 | 0 (0) | 0 (0) | 13 (2) | 19 (3) | 13 (2) | 18 (2) |
| 20 | 2 (1) | 3 (2) | 13 (3) | 18 (5) | 12 (3) | 18 (4) |
| 21 | 0 (0) | 0 (0) | 13 (2) | 19 (3) | 14 (2) | 20 (3) |
| 22 | 0 (0) | 1 (0) | 14 (2) | 20 (2) | 15 (2) | 22 (2) |
| 23 | 0 (1) | 1 (1) | 15 (1) | 21 (2) | 15 (1) | 22 (2) |
| 24 | 0 (1) | 1 (1) | 16 (1) | 22 (2) | 15 (2) | 22 (2) |
| 25 | 0 (0) | 0 (0) | 13 (3) | 18 (4) | 13 (3) | 19 (4) |
| 26 | 1 (0) | 1 (0) | 11 (2) | 16 (2) | 11 (2) | 16 (3) |
| 27 | 0 (0) | 0 (0) | | | | |
| 28 | 0 (0) | -1 (0) | | | | |
| 29 | 0 (0) | 0 (1) | 13 (2) | 19 (3) | 14 (3) | 21 (4) |
| Mean | 2 | 3 | 12 | 16 | 12 | 17 |
| n | 29 | 28 | 25 | 25 | 25 | 25 |
| SD | 3 | 5 | 2 | 3 | 2 | 4 |
| Min | 0 | -1 | 7 | 10 | 6 | 9 |
| Max | 16 | 23 | 16 | 22 | 15 | 22 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for March, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (1) | 11 (3) | 16 (4) | 12 (4) | 17 (5) |
| 2 | 2 (2) | 3 (3) | 13 (3) | 19 (5) | 14 (4) | 20 (6) |
| 3 | 9 (8) | 12 (11) | 11 (6) | 16 (9) | 12 (7) | 18 (10) |
| 4 | 0 (0) | | | | | |
| 5 | 0 (0) | 0 (0) | 10 (3) | 14 (4) | 12 (3) | 17 (5) |
| 6 | 1 (2) | 1 (2) | 10 (3) | 14 (5) | 13 (4) | 18 (5) |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | 0 (0) | 1 (1) | 10 (3) | 14 (4) | 12 (4) | 17 (6) |
| 12 | 0 (0) | 0 (1) | 10 (4) | 14 (5) | 12 (5) | 18 (7) |
| 13 | 0 (1) | 0 (1) | 8 (5) | 12 (7) | 12 (7) | 17 (10) |
| 14 | 0 (0) | 1 (0) | 9 (3) | 12 (5) | 6 (3) | 8 (4) |
| 15 | 1 (1) | 1 (1) | 12 (6) | 17 (9) | 8 (4) | 12 (5) |
| 16 | 0 (1) | 0 (1) | 12 (3) | 18 (4) | 9 (1) | 13 (2) |
| 17 | 0 (0) | 0 (1) | 17 (6) | 24 (9) | 12 (4) | 17 (5) |
| 18 | 0 (0) | 0 (0) | 11 (4) | 15 (6) | 12 (3) | 18 (5) |
| 19 | 0 (0) | 0 (1) | 5 (2) | 7 (3) | 5 (3) | 7 (4) |
| 20 | 0 (0) | 0 (0) | 10 (3) | 14 (5) | 8 (3) | 12 (4) |
| 21 | 0 (0) | 0 (0) | 11 (4) | 16 (6) | 10 (4) | 15 (5) |
| 22 | 1 (1) | 1 (1) | 8 (4) | 11 (6) | 7 (3) | 10 (5) |
| 23 | 2 (1) | 3 (2) | 12 (3) | 17 (4) | 13 (3) | 18 (5) |
| 24 | 1 (1) | 2 (1) | 14 (3) | 20 (4) | 15 (2) | 21 (3) |
| 25 | 0 (0) | 1 (0) | 14 (2) | 20 (3) | 14 (3) | 21 (4) |
| 26 | 1 (0) | 1 (0) | 10 (5) | 15 (7) | 11 (5) | 16 (8) |
| 27 | 1 (0) | 1 (0) | 8 (5) | 11 (7) | 8 (5) | 11 (8) |
| 28 | 0 (1) | 0 (1) | 5 (4) | 7 (5) | 6 (4) | 8 (6) |
| 29 | 5 (1) | 7 (2) | 13 (2) | 18 (2) | 14 (3) | 20 (4) |
| 30 | 3 (2) | 4 (3) | 14 (2) | 20 (2) | 16 (3) | 23 (5) |
| 31 | 1 (1) | 1 (1) | 10 (3) | 15 (4) | 11 (3) | 15 (4) |
| Mean | 1 | 2 | 11 | 15 | 11 | 16 |
| n | 27 | 26 | 26 | 26 | 26 | 26 |
| SD | 2 | 3 | 3 | 4 | 3 | 4 |
| Min | 0 | 0 | 5 | 7 | 5 | 7 |
| Max | 9 | 12 | 17 | 24 | 16 | 23 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for April, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (1) | 0 (1) | 6 (2) | 8 (3) | 6 (3) | 8 (4) |
| 2 | 8 (4) | 11 (6) | 12 (3) | 17 (5) | 11 (3) | 15 (4) |
| 3 | 2 (1) | 2 (2) | 15 (2) | 21 (3) | 15 (2) | 21 (3) |
| 4 | 0 (0) | 0 (1) | 10 (6) | 15 (9) | 9 (5) | 13 (8) |
| 5 | 1 (1) | 1 (1) | 10 (3) | 15 (4) | 9 (2) | 13 (3) |
| 6 | 3 (1) | 4 (1) | 12 (3) | 17 (4) | 15 (1) | 21 (1) |
| 7 | 3 (1) | 4 (2) | 13 (1) | 19 (2) | 15 (1) | 22 (2) |
| 8 | 4 (1) | 6 (2) | 11 (3) | 16 (4) | 16 (2) | 23 (3) |
| 9 | 2 (1) | 3 (2) | | | | |
| 10 | 2 (2) | 2 (3) | 3 (2) | 4 (2) | 9 (6) | 12 (8) |
| 11 | 0 (0) | 1 (1) | 2 (2) | 3 (3) | 5 (4) | 7 (6) |
| 12 | 0 (0) | 0 (0) | 1 (0) | 1 (1) | 5 (3) | 7 (5) |
| 13 | 0 (0) | 0 (0) | 1 (1) | 2 (1) | 13 (4) | 18 (5) |
| 14 | 1 (1) | 2 (2) | 2 (1) | 3 (1) | 16 (2) | 22 (3) |
| 15 | 1 (0) | 1 (1) | 3 (1) | 4 (2) | 15 (3) | 21 (4) |
| 16 | 1 (0) | 1 (1) | 2 (1) | 2 (1) | 12 (5) | 18 (8) |
| 17 | 1 (0) | | | | | |
| 18 | 1 (0) | | | | | |
| 19 | 0 (1) | 1 (1) | 1 (3) | 2 (4) | 6 (6) | 9 (9) |
| 20 | 0 (0) | 0 (0) | 1 (1) | 2 (2) | 9 (4) | 12 (6) |
| 21 | 1 (0) | 2 (1) | 2 (1) | 3 (1) | 11 (3) | 16 (5) |
| 22 | 1 (0) | | | | | |
| 23 | 1 (1) | 2 (1) | 2 (1) | 2 (1) | 8 (3) | 11 (4) |
| 24 | 1 (1) | 2 (1) | 1 (1) | 2 (1) | 8 (5) | 12 (7) |
| 25 | 1 (0) | 1 (0) | 2 (3) | 3 (4) | 7 (7) | 11 (9) |
| 26 | 0 (0) | 1 (0) | 0 (1) | 0 (1) | 4 (3) | 6 (4) |
| 27 | 0 (1) | 0 (1) | 1 (2) | 1 (3) | 7 (3) | 11 (4) |
| 28 | 0 (2) | 0 (3) | -1 (1) | -1 (1) | 6 (3) | 9 (4) |
| 29 | | | | | | |
| 30 | | | | | | |
| Mean | 1 | 2 | 5 | 7 | 10 | 14 |
| n | 28 | 25 | 24 | 24 | 24 | 24 |
| SD | 2 | 2 | 5 | 7 | 4 | 5 |
| Min | 0 | 0 | -1 | -1 | 4 | 6 |
| Max | 8 | 11 | 15 | 21 | 16 | 23 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for May, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | 2 (4) | 3 (5) | 4 (3) | 5 (4) | 8 (5) | 12 (7) |
| 7 | 2 (5) | 3 (6) | 3 (4) | 5 (5) | 7 (7) | 10 (11) |
| 8 | 0 (0) | 0 (0) | 1 (1) | 2 (1) | 4 (1) | 5 (1) |
| 9 | 0 (0) | 0 (1) | 2 (1) | 2 (1) | 4 (2) | 5 (2) |
| 10 | 1 (0) | 1 (1) | 3 (2) | 4 (2) | 7 (4) | 10 (6) |
| 11 | 4 (6) | 6 (8) | 4 (3) | 6 (4) | 11 (3) | 16 (5) |
| 12 | 0 (0) | 0 (0) | 4 (1) | 5 (2) | 12 (2) | 17 (3) |
| 13 | 0 (0) | 0 (0) | 4 (3) | 5 (4) | 9 (5) | 14 (7) |
| 14 | 1 (1) | 2 (2) | 3 (3) | 4 (4) | 8 (5) | 11 (7) |
| 15 | 0 (0) | 0 (1) | 1 (0) | 2 (1) | 5 (3) | 7 (4) |
| 16 | 0 (0) | 0 (0) | 1 (0) | 2 (1) | 5 (2) | 7 (3) |
| 17 | 0 (0) | 0 (0) | 2 (2) | 3 (3) | 8 (5) | 11 (8) |
| 18 | 0 (0) | 0 (1) | 1 (1) | 2 (1) | 7 (3) | 10 (5) |
| 19 | 0 (1) | 0 (1) | 2 (1) | 3 (2) | 7 (4) | 10 (5) |
| 20 | 0 (1) | 1 (1) | 2 (1) | 3 (1) | 7 (4) | 10 (6) |
| 21 | 0 (0) | 0 (0) | 3 (2) | 4 (3) | 10 (6) | 14 (8) |
| 22 | 0 (0) | 0 (0) | 5 (4) | 7 (5) | 8 (6) | 12 (8) |
| 23 | 1 (1) | 2 (1) | 4 (2) | 6 (3) | 9 (5) | 12 (7) |
| 24 | 1 (1) | 1 (1) | 3 (2) | 5 (2) | 9 (5) | 13 (8) |
| 25 | 0 (0) | 0 (0) | 5 (3) | 7 (4) | 9 (7) | 13 (10) |
| 26 | 0 (1) | 0 (1) | 3 (2) | 5 (3) | 7 (7) | 10 (10) |
| 27 | 0 (0) | 0 (0) | 3 (1) | 5 (1) | 3 (2) | 5 (2) |
| 28 | 0 (0) | 1 (1) | 6 (2) | 8 (3) | 10 (5) | 15 (7) |
| 29 | 2 (4) | 3 (5) | 8 (6) | 11 (9) | 11 (8) | 16 (11) |
| 30 | 3 (4) | 4 (6) | 6 (6) | 9 (9) | 9 (9) | 13 (13) |
| 31 | 0 (0) | 0 (0) | 4 (1) | 6 (1) | 3 (1) | 5 (1) |
| Mean | 1 | 1 | 3 | 5 | 8 | 11 |
| n | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 1 | 2 | 2 | 2 | 2 | 4 |
| Min | 0 | 0 | 1 | 2 | 3 | 5 |
| Max | 4 | 6 | 8 | 11 | 12 | 17 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for June, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (1) | 1 (1) | 4 (1) | 6 (1) | 3 (1) | 5 (1) |
| 2 | 1 (1) | 1 (1) | 5 (5) | 6 (6) | 8 (6) | 11 (9) |
| 3 | 0 (0) | 0 (0) | 3 (2) | 4 (2) | 7 (7) | 10 (10) |
| 4 | 0 (0) | 0 (0) | 4 (1) | 5 (1) | 1 (0) | 2 (1) |
| 5 | 0 (0) | 0 (1) | 3 (1) | 5 (1) | 1 (1) | 2 (2) |
| 6 | 3 (5) | 4 (7) | 5 (3) | 7 (4) | 3 (3) | 4 (4) |
| 7 | 2 (3) | 3 (5) | 4 (2) | 5 (3) | 1 (2) | 2 (3) |
| 8 | 1 (3) | 2 (4) | 4 (3) | 6 (5) | 3 (4) | 4 (6) |
| 9 | 1 (1) | 1 (1) | 4 (3) | 6 (4) | 6 (9) | 9 (12) |
| 10 | 1 (1) | 1 (1) | 3 (4) | 5 (5) | 1 (3) | 1 (4) |
| 11 | 3 (3) | 5 (5) | 6 (4) | 9 (6) | 3 (3) | 4 (4) |
| 12 | 1 (1) | 1 (1) | 3 (2) | 5 (3) | 2 (2) | 3 (3) |
| 13 | 0 (0) | 0 (1) | 5 (7) | 7 (10) | 6 (11) | 8 (16) |
| 14 | 0 (0) | 0 (0) | 5 (5) | 8 (7) | 7 (12) | 11 (17) |
| 15 | 0 (0) | 0 (0) | 2 (1) | 3 (1) | 1 (0) | 1 (1) |
| 16 | 0 (0) | 0 (0) | 3 (3) | 4 (4) | 2 (5) | 3 (7) |
| 17 | 0 (0) | 0 (0) | 2 (1) | 3 (2) | 1 (1) | 2 (2) |
| 18 | 0 (0) | 0 (0) | 2 (1) | 3 (2) | 3 (3) | 4 (5) |
| 19 | 4 (4) | 5 (6) | 2 (1) | 2 (1) | 2 (2) | 3 (3) |
| 20 | 2 (2) | 2 (3) | 2 (1) | 3 (1) | 2 (1) | 3 (2) |
| 21 | 1 (1) | 1 (2) | 4 (3) | 5 (4) | 3 (2) | 4 (3) |
| 22 | 0 (0) | 1 (0) | 3 (0) | 4 (1) | 2 (1) | 3 (1) |
| 23 | 0 (0) | 0 (1) | 2 (0) | 3 (1) | 2 (0) | 2 (1) |
| 24 | 0 (0) | 1 (0) | 2 (2) | 3 (3) | 2 (2) | 3 (2) |
| 25 | 2 (3) | 3 (4) | 3 (2) | 4 (3) | 3 (3) | 5 (5) |
| 26 | 1 (0) | 1 (0) | 2 (1) | 3 (1) | 1 (0) | 2 (1) |
| 27 | 0 (0) | 1 (1) | 2 (0) | 3 (1) | 1 (1) | 2 (1) |
| 28 | 0 (0) | 0 (1) | 2 (0) | 3 (1) | 1 (1) | 2 (1) |
| 29 | 1 (2) | 1 (4) | 2 (0) | 3 (1) | 1 (0) | 2 (1) |
| 30 | 1 (2) | 1 (2) | 2 (1) | 3 (1) | 1 (0) | 2 (1) |
| Mean | 1 | 1 | 3 | 5 | 3 | 4 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 1 | 1 | 1 | 2 | 2 | 3 |
| Min | 0 | 0 | 2 | 2 | 1 | 1 |
| Max | 4 | 5 | 6 | 9 | 8 | 11 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for July, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (1) | 1 (1) | 2 (1) | 1 (2) | 1 (2) |
| 2 | 1 (1) | 1 (1) | 2 (1) | 3 (1) | 2 (3) | 3 (4) |
| 3 | 0 (0) | 1 (1) | 2 (1) | 3 (2) | 2 (1) | 2 (1) |
| 4 | 0 (0) | 1 (1) | 2 (1) | 3 (1) | 1 (0) | 2 (1) |
| 5 | 3 (4) | 4 (6) | 4 (3) | 5 (4) | 3 (2) | 4 (3) |
| 6 | 0 (0) | 1 (1) | 3 (1) | 5 (1) | 2 (1) | 3 (1) |
| 7 | 0 (0) | 0 (0) | 3 (1) | 4 (1) | 2 (1) | 3 (1) |
| 8 | 0 (0) | 0 (0) | 3 (0) | 4 (1) | 3 (1) | 4 (1) |
| 9 | 0 (0) | 0 (0) | 3 (0) | 4 (1) | 3 (1) | 4 (1) |
| 10 | 1 (1) | 1 (1) | 4 (2) | 5 (2) | 4 (1) | 5 (2) |
| 11 | 1 (0) | 1 (0) | 5 (2) | 7 (3) | 5 (3) | 7 (4) |
| 12 | 1 (0) | 1 (1) | 4 (2) | 6 (2) | 5 (4) | 7 (5) |
| 13 | 1 (0) | 1 (1) | 6 (4) | 8 (6) | 6 (6) | 8 (8) |
| 14 | 0 (0) | 0 (0) | 4 (1) | 6 (2) | 4 (2) | 5 (2) |
| 15 | 0 (1) | 0 (1) | 5 (2) | 7 (2) | 5 (2) | 7 (3) |
| 16 | 1 (0) | 1 (1) | 4 (2) | 6 (3) | 4 (4) | 6 (6) |
| 17 | 0 (0) | 0 (1) | 5 (5) | 7 (7) | 5 (5) | 7 (8) |
| 18 | 0 (0) | 0 (1) | 4 (2) | 6 (3) | 4 (3) | 6 (4) |
| 19 | 1 (1) | 1 (2) | 6 (3) | 8 (4) | 5 (3) | 8 (4) |
| 20 | 4 (5) | 6 (7) | 6 (3) | 9 (4) | 5 (2) | 7 (3) |
| 21 | 1 (1) | 1 (2) | 5 (3) | 7 (4) | 5 (4) | 7 (6) |
| 22 | 7 (9) | 11 (12) | 5 (3) | 7 (4) | 5 (5) | 8 (8) |
| 23 | 3 (8) | 4 (12) | 4 (1) | 6 (2) | 4 (2) | 5 (2) |
| 24 | 0 (0) | 0 (1) | 4 (1) | 5 (1) | 3 (1) | 4 (1) |
| 25 | 1 (1) | 1 (2) | 5 (3) | 7 (4) | 3 (1) | 5 (1) |
| 26 | 1 (2) | 2 (3) | 8 (7) | 12 (10) | 9 (10) | 13 (15) |
| 27 | 1 (0) | 1 (0) | 5 (1) | 7 (2) | 5 (3) | 6 (4) |
| 28 | 2 (2) | 3 (3) | 6 (3) | 8 (5) | 5 (3) | 8 (4) |
| 29 | 0 (1) | 1 (1) | 5 (2) | 7 (2) | 5 (2) | 7 (3) |
| 30 | 1 (0) | 1 (1) | 4 (1) | 6 (1) | 5 (4) | 7 (6) |
| 31 | 1 (0) | 1 (1) | 4 (1) | 6 (1) | 3 (1) | 5 (1) |
| Mean | 1 | 1 | 4 | 6 | 4 | 6 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 2 | 2 | 1 | 2 | 2 | 2 |
| Min | 0 | 0 | 1 | 2 | 1 | 1 |
| Max | 7 | 11 | 8 | 12 | 9 | 13 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for August, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (0) | 5 (1) | 7 (2) | 4 (3) | 6 (4) |
| 2 | 0 (0) | 0 (0) | 4 (1) | 5 (1) | 3 (1) | 4 (1) |
| 3 | 1 (2) | 2 (2) | 4 (2) | 5 (3) | 4 (3) | 5 (4) |
| 4 | 2 (1) | 3 (1) | 5 (3) | 8 (4) | 7 (5) | 10 (7) |
| 5 | | | 5 (3) | 8 (4) | 4 (2) | 6 (3) |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | 1 (1) | 1 (2) | 3 (1) | 4 (1) | 3 (1) | 4 (2) |
| 9 | 1 (1) | 2 (2) | 5 (4) | 7 (6) | 4 (4) | 6 (6) |
| 10 | 0 (0) | 0 (0) | 5 (5) | 8 (7) | 4 (2) | 6 (3) |
| 11 | 0 (0) | 0 (0) | 3 (2) | 5 (2) | 3 (2) | 5 (3) |
| 12 | 0 (0) | 0 (0) | | | | |
| 13 | 0 (1) | 1 (1) | 5 (4) | 7 (5) | 5 (4) | 7 (6) |
| 14 | 0 (0) | 0 (0) | 4 (1) | 6 (1) | 5 (4) | 7 (6) |
| 15 | 0 (0) | 0 (1) | 5 (2) | 7 (3) | 6 (4) | 9 (6) |
| 16 | 0 (0) | 0 (1) | 5 (3) | 7 (4) | 7 (6) | 10 (9) |
| 17 | 0 (0) | 0 (0) | 4 (2) | 6 (3) | 5 (2) | 7 (4) |
| 18 | 0 (0) | 0 (0) | 3 (1) | 4 (2) | 4 (3) | 6 (4) |
| 19 | 0 (0) | 1 (1) | 6 (4) | 9 (5) | 11 (9) | 16 (13) |
| 20 | 2 (1) | 2 (1) | 5 (2) | 7 (3) | 6 (3) | 8 (4) |
| 21 | 6 (4) | 9 (6) | 6 (3) | 9 (5) | 7 (3) | 10 (4) |
| 22 | 4 (3) | 5 (4) | 5 (3) | 7 (5) | 6 (3) | 8 (4) |
| 23 | 2 (1) | 2 (1) | 4 (2) | 5 (3) | 4 (1) | 5 (2) |
| 24 | 1 (0) | 1 (0) | 3 (3) | 4 (4) | 3 (2) | 5 (3) |
| 25 | 0 (0) | 0 (1) | 3 (1) | 4 (1) | 3 (1) | 5 (1) |
| 26 | | | 5 (2) | 7 (3) | 5 (2) | 7 (3) |
| 27 | | | 6 (3) | 8 (4) | 6 (3) | 9 (5) |
| 28 | | | 5 (1) | 7 (2) | 5 (1) | 8 (2) |
| 29 | | | 4 (1) | 5 (2) | 5 (1) | 7 (2) |
| 30 | 1 (1) | 2 (1) | 3 (1) | 5 (1) | 4 (1) | 6 (2) |
| 31 | 1 (0) | 2 (0) | 4 (1) | 6 (2) | 5 (1) | 7 (2) |
| Mean | 1 | 1 | 4 | 6 | 5 | 7 |
| n | 24 | 24 | 28 | 28 | 28 | 28 |
| SD | 1 | 2 | 1 | 1 | 2 | 2 |
| Min | 0 | 0 | 3 | 4 | 3 | 4 |
| Max | 6 | 9 | 6 | 9 | 11 | 16 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for September, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (1) | 2 (2) | 3 (1) | 4 (2) | 6 (4) | 8 (6) |
| 2 | 1 (1) | 1 (1) | 3 (1) | 4 (2) | 4 (2) | 6 (3) |
| 3 | 0 (0) | 0 (0) | 4 (4) | 6 (6) | 6 (6) | 8 (9) |
| 4 | 0 (0) | 1 (1) | | | | |
| 5 | 3 (1) | 4 (1) | 6 (4) | 9 (6) | 9 (6) | 12 (9) |
| 6 | 1 (1) | 1 (1) | 5 (2) | 7 (2) | 7 (3) | 10 (5) |
| 7 | 4 (5) | 6 (7) | 4 (3) | 6 (4) | 5 (2) | 7 (4) |
| 8 | 2 (2) | 3 (3) | 5 (3) | 7 (5) | 4 (1) | 6 (1) |
| 9 | 0 (0) | 0 (1) | 3 (1) | 5 (1) | 4 (2) | 6 (3) |
| 10 | 1 (1) | 2 (1) | 4 (1) | 5 (2) | 5 (1) | 7 (2) |
| 11 | 4 (1) | 6 (1) | 6 (3) | 8 (4) | 6 (2) | 9 (3) |
| 12 | 0 (0) | 1 (1) | 5 (2) | 7 (2) | 5 (2) | 7 (3) |
| 13 | 0 (0) | 0 (0) | 3 (1) | 4 (2) | 3 (1) | 4 (1) |
| 14 | 0 (0) | 0 (0) | 3 (0) | 4 (1) | 3 (1) | 4 (1) |
| 15 | 0 (0) | 0 (0) | 2 (1) | 3 (1) | 3 (1) | 4 (1) |
| 16 | 1 (1) | 2 (1) | 3 (1) | 5 (1) | 4 (1) | 6 (1) |
| 17 | 0 (1) | 0 (2) | 3 (1) | 5 (2) | 4 (1) | 6 (2) |
| 18 | 0 (0) | 0 (1) | 4 (2) | 6 (3) | 5 (3) | 8 (4) |
| 19 | 1 (0) | 1 (0) | 4 (1) | 5 (2) | 5 (1) | 6 (2) |
| 20 | 1 (0) | 1 (1) | 4 (2) | 5 (3) | 4 (2) | 6 (3) |
| 21 | 0 (0) | 0 (0) | 3 (1) | 5 (2) | 4 (1) | 5 (2) |
| 22 | 0 (1) | 1 (1) | 4 (2) | 6 (2) | 5 (4) | 8 (5) |
| 23 | 1 (1) | 1 (1) | 4 (1) | 6 (2) | 4 (1) | 6 (2) |
| 24 | 0 (0) | 0 (0) | 4 (2) | 6 (3) | 4 (2) | 6 (3) |
| 25 | 1 (0) | 1 (0) | 4 (1) | 6 (2) | 4 (1) | 6 (2) |
| 26 | 1 (0) | 1 (0) | 5 (2) | 7 (3) | 6 (3) | 9 (5) |
| 27 | 0 (1) | 0 (1) | 4 (2) | 6 (2) | 5 (3) | 7 (4) |
| 28 | 0 (0) | -1 (0) | 3 (1) | 4 (1) | 3 (1) | 4 (1) |
| 29 | 1 (2) | 2 (2) | 5 (4) | 6 (5) | 4 (3) | 6 (4) |
| 30 | 1 (2) | 2 (3) | 6 (4) | 9 (5) | 6 (3) | 9 (4) |
| Mean | 1 | 1 | 4 | 6 | 5 | 7 |
| n | 30 | 30 | 29 | 29 | 29 | 29 |
| SD | 1 | 2 | 1 | 1 | 1 | 2 |
| Min | 0 | -1 | 2 | 3 | 3 | 4 |
| Max | 4 | 6 | 6 | 9 | 9 | 12 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for October, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (1) | 1 (1) | 6 (3) | 8 (4) | 6 (3) | 8 (4) |
| 2 | 2 (1) | 3 (2) | 9 (5) | 13 (7) | 9 (4) | 13 (6) |
| 3 | 1 (1) | 2 (1) | 8 (5) | 12 (7) | 10 (6) | 14 (8) |
| 4 | 3 (5) | 5 (7) | 8 (5) | 11 (8) | 9 (6) | 13 (8) |
| 5 | 6 (5) | 8 (7) | 9 (7) | 12 (9) | 9 (7) | 14 (9) |
| 6 | 0 (0) | 0 (0) | 8 (5) | 11 (7) | 9 (5) | 13 (7) |
| 7 | 1 (0) | 1 (0) | 10 (4) | 14 (5) | 11 (4) | 16 (6) |
| 8 | 0 (0) | 0 (1) | 9 (6) | 13 (8) | 10 (6) | 14 (8) |
| 9 | 2 (1) | 3 (2) | 7 (4) | 11 (5) | 7 (3) | 10 (5) |
| 10 | 4 (1) | 5 (1) | 7 (2) | 11 (2) | 8 (2) | 12 (3) |
| 11 | 1 (0) | 1 (1) | 8 (2) | 11 (3) | 8 (3) | 12 (4) |
| 12 | 1 (1) | 1 (1) | 9 (4) | 12 (6) | 9 (4) | 13 (6) |
| 13 | 0 (0) | 0 (0) | 8 (5) | 11 (6) | 8 (5) | 12 (6) |
| 14 | 0 (0) | 0 (0) | 7 (4) | 10 (6) | 8 (5) | 12 (7) |
| 15 | 2 (2) | 3 (3) | 7 (4) | 10 (6) | 8 (5) | 12 (7) |
| 16 | 1 (1) | 1 (2) | 6 (6) | 9 (8) | 8 (6) | 11 (9) |
| 17 | 1 (1) | 1 (1) | 9 (3) | 13 (4) | 9 (3) | 13 (4) |
| 18 | 0 (0) | 0 (0) | 13 (2) | 19 (3) | 12 (2) | 18 (3) |
| 19 | 0 (1) | 0 (1) | 11 (2) | 16 (3) | 11 (2) | 15 (3) |
| 20 | 0 (1) | 0 (1) | 11 (3) | 15 (5) | 11 (3) | 16 (5) |
| 21 | 0 (0) | 0 (1) | 10 (5) | 15 (7) | 12 (5) | 17 (8) |
| 22 | 0 (0) | 0 (1) | 13 (3) | 18 (4) | 13 (3) | 19 (4) |
| 23 | 1 (1) | 2 (1) | 13 (3) | 19 (4) | 14 (3) | 19 (4) |
| 24 | 0 (1) | 0 (2) | 14 (4) | 19 (5) | 13 (4) | 19 (6) |
| 25 | 0 (0) | 0 (0) | 8 (3) | 12 (5) | 9 (3) | 12 (5) |
| 26 | 1 (2) | 2 (3) | 13 (5) | 19 (7) | 13 (5) | 19 (7) |
| 27 | 3 (3) | 4 (4) | 14 (4) | 20 (6) | 15 (3) | 21 (5) |
| 28 | 0 (0) | 0 (0) | 13 (2) | 18 (3) | 12 (2) | 18 (3) |
| 29 | 0 (0) | 0 (1) | 13 (2) | 19 (3) | 13 (3) | 19 (4) |
| 30 | 0 (0) | -1 (0) | 12 (3) | 18 (4) | 12 (2) | 18 (3) |
| 31 | 0 (0) | 0 (1) | 12 (3) | 17 (5) | 12 (4) | 17 (5) |
| Mean | 1 | 1 | 10 | 14 | 10 | 15 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1 | 2 | 3 | 4 | 2 | 3 |
| Min | 0 | -1 | 6 | 8 | 6 | 8 |
| Max | 6 | 8 | 14 | 20 | 15 | 21 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for November, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | -1 (1) | 11 (5) | 16 (7) | 11 (5) | 16 (7) |
| 2 | 1 (0) | 1 (1) | 11 (5) | 15 (7) | 10 (5) | 14 (7) |
| 3 | 0 (0) | 0 (0) | 11 (1) | 16 (2) | 11 (1) | 16 (2) |
| 4 | 0 (1) | 0 (1) | 10 (1) | 14 (1) | 11 (1) | 16 (2) |
| 5 | 0 (0) | 0 (1) | 8 (2) | 12 (2) | 10 (2) | 15 (3) |
| 6 | 0 (1) | 0 (2) | 6 (3) | 9 (4) | 9 (4) | 12 (6) |
| 7 | 0 (0) | 0 (1) | 8 (4) | 12 (5) | 10 (5) | 15 (7) |
| 8 | 0 (0) | 0 (1) | 10 (3) | 14 (4) | 10 (3) | 15 (4) |
| 9 | -1 (0) | -1 (0) | 12 (3) | 17 (5) | 12 (3) | 18 (4) |
| 10 | 0 (0) | 0 (0) | 11 (2) | 16 (3) | 12 (2) | 16 (3) |
| 11 | 1 (1) | 1 (2) | 12 (3) | 17 (4) | 13 (3) | 18 (4) |
| 12 | 1 (1) | 1 (1) | 14 (3) | 19 (4) | 14 (3) | 20 (4) |
| 13 | 2 (2) | 3 (3) | 12 (3) | 17 (4) | 12 (2) | 17 (3) |
| 14 | 2 (1) | 2 (2) | | | 10 (2) | 15 (2) |
| 15 | 0 (0) | 0 (1) | 7 (4) | 10 (6) | 7 (4) | 11 (6) |
| 16 | 0 (0) | 0 (1) | 15 (1) | 22 (2) | 16 (2) | 23 (3) |
| 17 | 0 (0) | -1 (0) | 15 (2) | 22 (3) | 16 (3) | 22 (4) |
| 18 | -1 (0) | -1 (0) | 16 (2) | 24 (3) | 16 (3) | 23 (5) |
| 19 | 0 (0) | 0 (0) | 16 (3) | 22 (5) | 16 (4) | 22 (5) |
| 20 | 0 (0) | 0 (0) | 16 (2) | 23 (3) | 17 (3) | 24 (4) |
| 21 | 0 (0) | 0 (0) | 16 (2) | 23 (3) | 18 (2) | 25 (3) |
| 22 | 0 (1) | 0 (1) | 16 (3) | 23 (4) | 17 (3) | 24 (5) |
| 23 | 1 (0) | 1 (1) | 18 (2) | 26 (3) | 19 (3) | 27 (4) |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | 18 (4) | 26 (6) | 18 (4) | 25 (6) |
| 28 | 3 (5) | 4 (7) | 18 (5) | 25 (7) | 17 (5) | 24 (7) |
| 29 | 1 (1) | 1 (1) | 20 (2) | 29 (2) | 18 (2) | 26 (2) |
| 30 | 0 (1) | 1 (1) | 19 (2) | 27 (3) | 16 (2) | 23 (3) |
| Mean | 0 | 0 | 13 | 19 | 13 | 19 |
| n | 26 | 26 | 26 | 26 | 27 | 27 |
| SD | 1 | 1 | 4 | 6 | 3 | 5 |
| Min | -1 | -1 | 6 | 9 | 7 | 11 |
| Max | 3 | 4 | 20 | 29 | 19 | 27 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for December, 2008.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (0) | 19 (3) | 27 (4) | 17 (2) | 24 (3) |
| 2 | 0 (1) | 0 (1) | 19 (2) | 28 (2) | 17 (2) | 24 (3) |
| 3 | 1 (3) | 2 (4) | 20 (3) | 28 (4) | 17 (3) | 25 (4) |
| 4 | 1 (2) | 2 (3) | 17 (2) | 25 (3) | 15 (3) | 22 (4) |
| 5 | 0 (0) | 0 (0) | 19 (2) | 27 (3) | 17 (2) | 24 (3) |
| 6 | 0 (0) | 1 (0) | 19 (2) | 27 (2) | 16 (2) | 24 (3) |
| 7 | 0 (0) | 0 (0) | 20 (1) | 28 (2) | 18 (2) | 25 (2) |
| 8 | 2 (3) | 3 (5) | 19 (2) | 27 (3) | 17 (3) | 25 (5) |
| 9 | 1 (1) | 1 (1) | 15 (4) | 22 (6) | 14 (4) | 20 (6) |
| 10 | 0 (0) | 0 (1) | 8 (2) | 11 (3) | 7 (2) | 10 (4) |
| 11 | 0 (0) | 0 (0) | 9 (3) | 12 (4) | 8 (2) | 11 (3) |
| 12 | 0 (0) | 0 (0) | 17 (2) | 25 (3) | 16 (2) | 23 (3) |
| 13 | 0 (0) | 0 (1) | 18 (2) | 25 (3) | 16 (3) | 24 (4) |
| 14 | 0 (1) | 0 (1) | 16 (2) | 23 (3) | 15 (3) | 21 (4) |
| 15 | 1 (2) | 2 (3) | 11 (4) | 15 (6) | 11 (4) | 16 (6) |
| 16 | 1 (0) | 1 (1) | 15 (3) | 21 (4) | 16 (4) | 22 (6) |
| 17 | 1 (0) | 1 (1) | 15 (2) | 21 (3) | 13 (2) | 19 (3) |
| 18 | 1 (1) | 2 (1) | 15 (2) | 22 (2) | 14 (2) | 20 (3) |
| 19 | 0 (1) | 1 (1) | 11 (4) | 17 (6) | 11 (4) | 16 (6) |
| 20 | 1 (1) | 1 (1) | 15 (3) | 22 (4) | 14 (3) | 20 (4) |
| 21 | 0 (0) | 0 (0) | 18 (2) | 26 (3) | 17 (2) | 24 (2) |
| 22 | 0 (0) | 0 (1) | 19 (2) | 27 (3) | 16 (3) | 23 (4) |
| 23 | 0 (1) | 0 (1) | 18 (3) | 26 (4) | 16 (4) | 23 (6) |
| 24 | 1 (1) | 1 (1) | 13 (4) | 19 (6) | 11 (4) | 16 (6) |
| 25 | 0 (0) | 0 (1) | 14 (4) | 20 (6) | 14 (4) | 19 (6) |
| 26 | 0 (1) | 1 (1) | 19 (1) | 27 (2) | 17 (2) | 25 (3) |
| 27 | 0 (0) | 0 (1) | 16 (2) | 23 (3) | 16 (2) | 23 (3) |
| 28 | 0 (0) | 0 (0) | 8 (3) | 12 (5) | 8 (3) | 12 (4) |
| 29 | 1 (2) | 2 (3) | 15 (2) | 21 (3) | 18 (3) | 25 (4) |
| 30 | 0 (0) | 0 (1) | 13 (3) | 19 (4) | 17 (3) | 25 (4) |
| 31 | 0 (0) | 1 (0) | 16 (3) | 24 (4) | 17 (2) | 24 (3) |
| Mean | 1 | 1 | 16 | 23 | 15 | 21 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1 | 1 | 3 | 5 | 3 | 4 |
| Min | 0 | 0 | 8 | 11 | 7 | 10 |
| Max | 2 | 3 | 20 | 28 | 18 | 25 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for January, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (1) | 0 (1) | 20 (2) | 28 (3) | 17 (4) | 24 (5) |
| 2 | 1 (1) | 1 (2) | 20 (2) | 29 (2) | 16 (3) | 23 (5) |
| 3 | 0 (1) | 1 (1) | 19 (3) | 28 (4) | 17 (3) | 25 (5) |
| 4 | 1 (0) | | | | | |
| 5 | 0 (1) | 0 (1) | 16 (2) | 22 (3) | 15 (2) | 22 (2) |
| 6 | 3 (2) | 4 (3) | 21 (2) | 30 (3) | 19 (2) | 27 (4) |
| 7 | 1 (1) | 1 (1) | 15 (5) | 22 (7) | 15 (5) | 22 (7) |
| 8 | 0 (0) | 0 (1) | 20 (1) | 29 (2) | 19 (2) | 28 (3) |
| 9 | 0 (0) | 0 (1) | 21 (3) | 30 (4) | 19 (4) | 27 (6) |
| 10 | 0 (0) | | | | | |
| 11 | 1 (0) | 1 (0) | 18 (2) | 25 (3) | 17 (2) | 25 (3) |
| 12 | 0 (0) | 0 (1) | 21 (2) | 30 (3) | 20 (3) | 28 (4) |
| 13 | 0 (0) | 0 (0) | 21 (1) | 30 (2) | 18 (3) | 26 (4) |
| 14 | 0 (0) | 0 (0) | 22 (2) | 31 (3) | 19 (3) | 27 (4) |
| 15 | 1 (0) | 1 (0) | 21 (2) | 30 (3) | 18 (4) | 26 (5) |
| 16 | 0 (0) | 0 (0) | 17 (5) | 25 (8) | 18 (4) | 26 (6) |
| 17 | 0 (0) | | 22 (4) | 31 (6) | 18 (4) | 26 (6) |
| 18 | 0 (0) | 1 (1) | 24 (2) | 34 (2) | 20 (3) | 29 (4) |
| 19 | 0 (0) | 0 (0) | 24 (3) | 34 (4) | 20 (4) | 29 (5) |
| 20 | 0 (1) | 0 (1) | 22 (3) | 31 (4) | 21 (3) | 29 (5) |
| 21 | 0 (0) | 0 (1) | 20 (3) | 28 (5) | 19 (4) | 27 (5) |
| 22 | 0 (0) | 0 (0) | 23 (4) | 33 (5) | 25 (3) | 35 (5) |
| 23 | 0 (0) | 0 (0) | | | 25 (3) | 36 (4) |
| 24 | 0 (0) | 0 (1) | 25 (2) | 35 (3) | 21 (2) | 31 (4) |
| 25 | 1 (1) | 2 (1) | 26 (2) | 37 (2) | 24 (2) | 34 (3) |
| 26 | 2 (2) | 3 (3) | 23 (2) | 33 (3) | 21 (3) | 31 (4) |
| 27 | 2 (2) | 3 (3) | 24 (2) | 35 (2) | 24 (2) | 35 (3) |
| 28 | 2 (2) | 2 (2) | 18 (5) | 26 (8) | 17 (5) | 25 (8) |
| 29 | 4 (4) | 6 (6) | 21 (1) | 30 (2) | | |
| 30 | 4 (5) | 5 (7) | 20 (2) | 29 (3) | 19 (3) | 28 (5) |
| 31 | 0 (0) | 0 (0) | 20 (4) | 29 (5) | 19 (4) | 27 (6) |
| Mean | 1 | 1 | 21 | 30 | 19 | 28 |
| n | 31 | 28 | 28 | 28 | 28 | 28 |
| SD | 1 | 2 | 3 | 4 | 3 | 4 |
| Min | 0 | 0 | 15 | 22 | 15 | 22 |
| Max | 4 | 6 | 26 | 37 | 25 | 36 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for February, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (1) | 0 (1) | 19 (3) | 28 (4) | 17 (3) | 25 (4) |
| 2 | 0 (1) | 0 (1) | 19 (4) | 28 (5) | 17 (5) | 25 (8) |
| 3 | 0 (0) | 0 (0) | 22 (2) | 32 (3) | 18 (2) | 26 (3) |
| 4 | 0 (0) | 0 (1) | 22 (3) | 32 (4) | 19 (2) | 27 (3) |
| 5 | 4 (3) | 6 (4) | 20 (4) | 29 (6) | 19 (4) | 27 (6) |
| 6 | 5 (6) | 7 (8) | 25 (5) | 37 (7) | 26 (10) | 37 (14) |
| 7 | 2 (4) | 3 (5) | 22 (8) | 31 (12) | 19 (9) | 28 (13) |
| 8 | 0 (1) | 0 (1) | 16 (6) | 23 (9) | 14 (6) | 19 (9) |
| 9 | 4 (4) | 5 (6) | 24 (6) | 35 (9) | 21 (9) | 30 (13) |
| 10 | 3 (4) | 4 (5) | 19 (9) | 27 (13) | 17 (10) | 24 (14) |
| 11 | 0 (0) | 1 (0) | 13 (6) | 19 (8) | 9 (4) | 13 (6) |
| 12 | 0 (0) | 0 (0) | 14 (4) | 21 (6) | 12 (4) | 17 (6) |
| 13 | 1 (1) | 2 (2) | 16 (5) | 22 (8) | 15 (6) | 22 (8) |
| 14 | 2 (2) | 3 (3) | 18 (4) | 25 (5) | 19 (7) | 27 (10) |
| 15 | 1 (0) | 1 (0) | 16 (2) | 23 (3) | 17 (3) | 24 (4) |
| 16 | 1 (1) | 1 (1) | 14 (2) | 20 (3) | 15 (2) | 21 (3) |
| 17 | 1 (1) | 1 (1) | 14 (3) | 20 (5) | 16 (4) | 23 (5) |
| 18 | 1 (1) | 1 (1) | 9 (2) | 13 (3) | 11 (2) | 15 (2) |
| 19 | 0 (0) | 0 (0) | 12 (2) | 18 (3) | 13 (2) | 19 (3) |
| 20 | 0 (0) | 0 (0) | 12 (2) | 17 (3) | 11 (2) | 16 (3) |
| 21 | 0 (0) | 0 (0) | 11 (3) | 16 (4) | 12 (3) | 17 (5) |
| 22 | 0 (0) | 0 (0) | 10 (2) | 15 (3) | 12 (2) | 17 (2) |
| 23 | 0 (0) | 1 (1) | 10 (2) | 15 (3) | 11 (2) | 16 (3) |
| 24 | 0 (1) | 0 (1) | 12 (3) | 17 (4) | 13 (3) | 19 (4) |
| 25 | 7 (8) | 10 (11) | 13 (5) | 19 (7) | 13 (5) | 18 (7) |
| 26 | 4 (5) | 6 (8) | 13 (3) | 18 (4) | 12 (4) | 17 (5) |
| 27 | 2 (1) | 3 (2) | 13 (5) | 19 (8) | 12 (5) | 18 (7) |
| 28 | 1 (1) | 2 (1) | 24 (3) | 34 (5) | 23 (5) | 32 (7) |
| Mean | 1 (2) | 2 (2) | 16 (4) | 23 (6) | 15 (4) | 22 (6) |
| n | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 2 | 3 | 5 | 7 | 4 | 6 |
| Min | 0 | 0 | 9 | 13 | 9 | 13 |
| Max | 7 | 10 | 25 | 37 | 26 | 37 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for March, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (0) | 2 (0) | 25 (2) | 35 (2) | 23 (2) | 33 (3) |
| 2 | 1 (0) | | | | | |
| 3 | 0 (0) | 1 (1) | 25 (2) | 36 (3) | 25 (3) | 35 (5) |
| 4 | 2 (2) | 2 (3) | 25 (3) | 36 (5) | 23 (3) | 33 (5) |
| 5 | 1 (1) | 2 (2) | 22 (3) | 31 (5) | 19 (5) | 27 (7) |
| 6 | 1 (0) | 1 (1) | 14 (6) | 20 (8) | 12 (6) | 17 (8) |
| 7 | 0 (0) | 0 (1) | 11 (7) | 15 (9) | 9 (5) | 13 (8) |
| 8 | 0 (1) | 1 (1) | 9 (6) | 12 (8) | 7 (5) | 11 (7) |
| 9 | 1 (2) | 2 (3) | 7 (4) | 10 (6) | 5 (3) | 8 (4) |
| 10 | 1 (1) | 2 (2) | 15 (5) | 22 (7) | 14 (5) | 20 (8) |
| 11 | 0 (0) | 1 (1) | 9 (5) | 12 (7) | 8 (5) | 11 (7) |
| 12 | 1 (1) | 2 (2) | 18 (3) | 26 (4) | 16 (4) | 24 (6) |
| 13 | 1 (1) | 2 (2) | 18 (2) | 26 (3) | 19 (2) | 27 (2) |
| 14 | 1 (2) | 2 (2) | 17 (2) | 25 (3) | 18 (2) | 25 (3) |
| 15 | 2 (1) | 2 (2) | 16 (2) | 23 (2) | 17 (1) | 24 (2) |
| 16 | 2 (1) | 2 (1) | 16 (2) | 23 (2) | 18 (1) | 25 (2) |
| 17 | 1 (0) | 1 (0) | 17 (2) | 25 (2) | 18 (2) | 25 (2) |
| 18 | 0 (0) | 0 (1) | 15 (4) | 21 (5) | 14 (4) | 20 (6) |
| 19 | 2 (1) | 2 (2) | 14 (6) | 19 (8) | 12 (5) | 18 (8) |
| 20 | 1 (1) | 1 (1) | 16 (3) | 23 (4) | 16 (3) | 23 (4) |
| 21 | 0 (1) | 0 (1) | 17 (3) | 25 (4) | 16 (4) | 23 (5) |
| 22 | 0 (0) | 0 (1) | 16 (5) | 23 (7) | 14 (5) | 20 (8) |
| 23 | 2 (2) | 3 (2) | 18 (5) | 26 (7) | 22 (11) | 32 (15) |
| 24 | 3 (3) | 4 (4) | 20 (4) | 28 (5) | 16 (6) | 23 (8) |
| 25 | 1 (1) | 1 (1) | 31 (29) | 44 (42) | 19 (3) | 27 (5) |
| 26 | 0 (0) | 1 (1) | | | 14 (4) | 20 (6) |
| 27 | 1 (1) | 2 (2) | 18 (6) | 26 (8) | 14 (4) | 21 (6) |
| 28 | 0 (1) | 0 (1) | 11 (4) | 16 (6) | 9 (3) | 14 (4) |
| 29 | 1 (1) | 1 (1) | 9 (4) | 13 (6) | 8 (4) | 11 (5) |
| 30 | 0 (0) | 0 (1) | 14 (5) | 21 (7) | 13 (6) | 19 (8) |
| 31 | 0 (0) | 0 (1) | 12 (6) | 17 (8) | 12 (6) | 17 (8) |
| Mean | 1 | 1 | 16 | 23 | 15 | 22 |
| n | 31 | 30 | 29 | 29 | 30 | 30 |
| SD | 1 | 1 | 5 | 8 | 5 | 7 |
| Min | 0 | 0 | 7 | 10 | 5 | 8 |
| Max | 3 | 4 | 31 | 44 | 25 | 35 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for April, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (1) | 1 (1) | 9 (3) | 13 (5) | 12 (5) | 17 (7) |
| 2 | 1 (1) | 2 (1) | 12 (3) | 18 (4) | 12 (3) | 18 (5) |
| 3 | 1 (1) | 1 (1) | 8 (4) | 11 (5) | 8 (4) | 11 (6) |
| 4 | 0 (0) | 0 (1) | 7 (7) | 10 (10) | 10 (5) | 14 (7) |
| 5 | 0 (0) | 0 (1) | 4 (6) | 6 (8) | 8 (7) | 12 (9) |
| 6 | 0 (0) | 0 (0) | 2 (1) | 2 (1) | 8 (3) | 12 (5) |
| 7 | 0 (0) | 0 (1) | 5 (2) | 7 (2) | 15 (2) | 21 (3) |
| 8 | 0 (0) | 0 (0) | 5 (3) | 7 (4) | 14 (4) | 21 (6) |
| 9 | 1 (1) | 1 (2) | 5 (4) | 6 (6) | 12 (7) | 18 (10) |
| 10 | 1 (1) | 1 (2) | 3 (3) | 5 (5) | 10 (7) | 14 (9) |
| 11 | 0 (0) | 0 (0) | 1 (1) | 2 (2) | 9 (4) | 13 (6) |
| 12 | 1 (1) | 1 (1) | 3 (2) | 4 (3) | 13 (5) | 19 (7) |
| 13 | 1 (1) | 1 (1) | 3 (2) | 4 (3) | 14 (4) | 20 (6) |
| 14 | 0 (0) | 0 (1) | 1 (1) | 2 (1) | 9 (4) | 13 (5) |
| 15 | 0 (0) | 0 (0) | 2 (1) | 3 (1) | 14 (3) | 20 (5) |
| 16 | 1 (0) | 1 (1) | 4 (3) | 6 (4) | 14 (5) | 20 (7) |
| 17 | 1 (1) | 1 (1) | 4 (4) | 6 (5) | 11 (7) | 16 (9) |
| 18 | 1 (1) | 1 (2) | 2 (3) | 3 (4) | 9 (7) | 12 (11) |
| 19 | 0 (0) | 0 (1) | 3 (2) | 5 (3) | 8 (4) | 11 (6) |
| 20 | 0 (0) | 0 (0) | 6 (3) | 9 (4) | 7 (4) | 11 (5) |
| 21 | 0 (0) | 0 (0) | 9 (4) | 13 (6) | 10 (5) | 14 (8) |
| 22 | 2 (4) | 3 (5) | 16 (4) | 23 (5) | 17 (6) | 24 (8) |
| 23 | 5 (3) | 7 (4) | 17 (9) | 24 (13) | 14 (10) | 20 (14) |
| 24 | 3 (4) | 4 (5) | 13 (12) | 19 (18) | 11 (11) | 16 (15) |
| 25 | 0 (0) | 0 (0) | 5 (3) | 8 (4) | 4 (1) | 5 (2) |
| 26 | 1 (1) | 1 (1) | 6 (4) | 9 (6) | 4 (2) | 6 (3) |
| 27 | 0 (1) | 0 (1) | 7 (5) | 10 (7) | 5 (5) | 8 (8) |
| 28 | 0 (0) | -1 (1) | 10 (8) | 14 (11) | 6 (5) | 8 (7) |
| 29 | 0 (1) | 0 (1) | 10 (5) | 14 (7) | 8 (3) | 11 (5) |
| 30 | 2 (1) | 4 (1) | 15 (5) | 22 (8) | 10 (4) | 14 (6) |
| Mean | 1 | 1 | 7 | 9 | 10 | 15 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 1 | 2 | 4 | 6 | 3 | 5 |
| Min | 0 | -1 | 1 | 2 | 4 | 5 |
| Max | 5 | 7 | 17 | 24 | 17 | 24 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for May, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (1) | 8 (4) | 11 (5) | 5 (2) | 8 (3) |
| 2 | 0 (0) | | | | | |
| 3 | 0 (1) | 0 (1) | 5 (3) | 8 (4) | 4 (2) | 6 (2) |
| 4 | 0 (1) | 0 (1) | 6 (2) | 8 (3) | 4 (1) | 6 (2) |
| 5 | 1 (1) | 1 (1) | 15 (4) | 22 (6) | 11 (4) | 16 (5) |
| 6 | 0 (0) | 0 (0) | 12 (6) | 17 (9) | 9 (4) | 13 (6) |
| 7 | 0 (0) | 0 (1) | 8 (4) | 12 (6) | 6 (2) | 8 (3) |
| 8 | 0 (0) | 0 (1) | 11 (8) | 16 (12) | 6 (4) | 9 (6) |
| 9 | 1 (0) | | | | | |
| 10 | 0 (0) | 0 (0) | 14 (7) | 20 (11) | 6 (4) | 9 (5) |
| 11 | 1 (1) | 1 (1) | 22 (3) | 32 (5) | 12 (3) | 17 (4) |
| 12 | 1 (1) | 1 (2) | 17 (10) | 25 (14) | 11 (7) | 16 (10) |
| 13 | 1 (1) | 1 (1) | 18 (9) | 26 (13) | 10 (7) | 14 (9) |
| 14 | 1 (0) | 1 (0) | 11 (7) | 16 (10) | 8 (6) | 11 (9) |
| 15 | 0 (1) | 1 (1) | 8 (4) | 11 (5) | 5 (2) | 7 (2) |
| 16 | 1 (1) | 1 (1) | 6 (3) | 9 (4) | 4 (1) | 6 (1) |
| 17 | 0 (0) | 0 (1) | 18 (9) | 26 (12) | 12 (6) | 18 (9) |
| 18 | 0 (0) | 0 (1) | 22 (3) | 32 (5) | 16 (4) | 23 (6) |
| 19 | 1 (1) | 1 (1) | 19 (5) | 28 (7) | 14 (5) | 20 (8) |
| 20 | 0 (0) | 0 (1) | 14 (7) | 20 (11) | 11 (6) | 16 (9) |
| 21 | 0 (0) | 1 (1) | 11 (6) | 16 (9) | 9 (5) | 13 (8) |
| 22 | 0 (1) | 1 (1) | 9 (6) | 13 (9) | 8 (6) | 12 (8) |
| 23 | 0 (0) | 0 (1) | 10 (9) | 14 (12) | 10 (9) | 14 (13) |
| 24 | 2 (2) | 3 (2) | 11 (7) | 15 (10) | 11 (9) | 16 (13) |
| 25 | 0 (1) | 0 (1) | 9 (5) | 13 (8) | 8 (4) | 11 (6) |
| 26 | 3 (3) | 4 (5) | 11 (6) | 16 (8) | 8 (3) | 11 (5) |
| 27 | 1 (1) | 1 (1) | 11 (6) | 17 (9) | 9 (5) | 13 (7) |
| 28 | 0 (0) | | | | | |
| 29 | 1 (0) | 1 (1) | 8 (4) | 12 (5) | 7 (3) | 10 (4) |
| 30 | 5 (5) | 7 (7) | 12 (6) | 17 (9) | 11 (8) | 15 (11) |
| 31 | 1 (3) | 2 (4) | 10 (7) | 15 (11) | 9 (8) | 14 (11) |
| Mean | 1 | 1 | 12 | 17 | 9 | 13 |
| n | 31 | 28 | 28 | 28 | 28 | 28 |
| SD | 1 | 1 | 5 | 7 | 3 | 4 |
| Min | 0 | 0 | 5 | 8 | 4 | 6 |
| Max | 5 | 7 | 22 | 32 | 16 | 23 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for June, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 0 (0) | 0 (0) | 10 (6) | 15 (8) | 9 (6) | 13 (8) |
| 2 | 1 (1) | 1 (1) | 8 (6) | 11 (9) | 5 (3) | 8 (5) |
| 3 | 0 (0) | 0 (0) | 5 (3) | 8 (4) | 4 (2) | 6 (2) |
| 4 | 1 (1) | 1 (1) | 7 (3) | 10 (5) | 6 (3) | 8 (4) |
| 5 | 1 (1) | 1 (1) | 12 (6) | 17 (8) | 10 (6) | 14 (8) |
| 6 | 2 (1) | 3 (1) | 15 (5) | 21 (8) | 13 (4) | 18 (5) |
| 7 | 2 (1) | 3 (2) | 11 (6) | 16 (9) | 11 (7) | 16 (9) |
| 8 | 1 (1) | 1 (1) | 10 (8) | 15 (11) | 12 (10) | 17 (15) |
| 9 | 1 (1) | 2 (1) | 9 (6) | 13 (8) | 9 (7) | 13 (10) |
| 10 | 1 (1) | 1 (1) | 9 (5) | 13 (7) | 9 (5) | 13 (7) |
| 11 | 1 (1) | 1 (1) | 8 (4) | 12 (6) | 10 (8) | 14 (11) |
| 12 | 2 (2) | 2 (2) | 8 (4) | 12 (6) | 7 (3) | 10 (5) |
| 13 | 2 (2) | 3 (2) | 7 (5) | 11 (7) | 6 (3) | 9 (4) |
| 14 | 0 (0) | 1 (0) | 8 (4) | 11 (6) | 6 (3) | 9 (4) |
| 15 | 2 (2) | 3 (2) | 11 (4) | 16 (6) | 10 (3) | 14 (4) |
| 16 | 4 (2) | 5 (3) | 16 (8) | 23 (12) | 13 (8) | 19 (11) |
| 17 | 1 (0) | 1 (1) | 11 (5) | 15 (7) | 9 (4) | 13 (5) |
| 18 | 1 (0) | 2 (1) | 7 (4) | 9 (5) | 6 (3) | 9 (4) |
| 19 | 0 (1) | 1 (1) | 4 (1) | 5 (1) | 4 (1) | 6 (1) |
| 20 | 1 (0) | 1 (0) | 4 (1) | 5 (1) | 4 (1) | 6 (1) |
| 21 | 0 (0) | 1 (0) | 3 (1) | 4 (1) | 3 (1) | 4 (1) |
| 22 | 0 (0) | 0 (1) | 3 (1) | 5 (1) | 3 (1) | 5 (1) |
| 23 | 2 (0) | 2 (1) | 5 (2) | 8 (3) | 5 (1) | 7 (2) |
| 24 | 0 (0) | 1 (0) | 4 (1) | 5 (1) | 4 (2) | 6 (3) |
| 25 | 3 (3) | 4 (5) | 4 (2) | 6 (3) | 4 (2) | 6 (3) |
| 26 | 4 (4) | 6 (6) | 6 (4) | 8 (6) | 8 (7) | 11 (10) |
| 27 | 1 (1) | 2 (1) | 4 (1) | 6 (1) | 5 (3) | 7 (4) |
| 28 | 1 (0) | 1 (0) | 4 (1) | 6 (2) | 4 (1) | 5 (2) |
| 29 | 1 (0) | 1 (0) | 3 (2) | 5 (3) | 4 (2) | 5 (3) |
| 30 | 2 (2) | 3 (3) | 6 (4) | 9 (6) | 6 (4) | 9 (6) |
| Mean | 1 | 2 | 7 | 11 | 7 | 10 |
| n | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 1 | 1 | 4 | 5 | 3 | 4 |
| Min | 0 | 0 | 3 | 4 | 3 | 4 |
| Max | 4 | 6 | 16 | 23 | 13 | 19 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for July, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 2 (1) | 2 (2) | 4 (2) | 5 (3) | 4 (2) | 6 (2) |
| 2 | 0 (0) | 1 (1) | 4 (2) | 6 (3) | 4 (1) | 6 (2) |
| 3 | 0 (1) | 0 (1) | 3 (1) | 5 (2) | 3 (1) | 5 (1) |
| 4 | 0 (0) | 0 (0) | 5 (3) | 7 (4) | 5 (3) | 7 (4) |
| 5 | 1 (1) | 2 (1) | 6 (4) | 9 (5) | 7 (4) | 10 (6) |
| 6 | 1 (1) | 1 (1) | 5 (1) | 8 (2) | 6 (3) | 9 (5) |
| 7 | 1 (0) | 1 (1) | 6 (2) | 8 (3) | 7 (3) | 9 (4) |
| 8 | 3 (1) | 4 (1) | 7 (4) | 10 (6) | 7 (6) | 10 (8) |
| 9 | 3 (1) | 4 (2) | 6 (2) | 8 (3) | 5 (2) | 8 (3) |
| 10 | 4 (4) | 5 (5) | 7 (4) | 10 (5) | 6 (2) | 8 (3) |
| 11 | 1 (0) | 1 (1) | 6 (4) | 8 (5) | 6 (4) | 9 (6) |
| 12 | 0 (0) | 0 (1) | 4 (1) | 5 (1) | 4 (1) | 6 (1) |
| 13 | 0 (1) | 1 (1) | 4 (1) | 6 (1) | 4 (1) | 6 (1) |
| 14 | 1 (1) | 2 (2) | 7 (4) | 9 (6) | 7 (6) | 11 (9) |
| 15 | 1 (1) | 2 (2) | 7 (9) | 11 (12) | 11 (12) | 16 (18) |
| 16 | 1 (0) | 1 (1) | 3 (1) | 5 (1) | 4 (1) | 5 (1) |
| 17 | 1 (0) | 1 (1) | 4 (1) | 6 (1) | 4 (1) | 6 (1) |
| 18 | 0 (0) | 0 (1) | 4 (1) | 6 (2) | 5 (2) | 7 (3) |
| 19 | 1 (1) | 1 (1) | 5 (2) | 8 (3) | 6 (3) | 8 (5) |
| 20 | 1 (0) | 2 (0) | 6 (2) | 9 (3) | 6 (1) | 9 (2) |
| 21 | 2 (1) | 3 (1) | 7 (3) | 10 (5) | 7 (1) | 10 (2) |
| 22 | 3 (3) | 5 (4) | 8 (8) | 11 (11) | 8 (4) | 12 (6) |
| 23 | 0 (0) | 0 (0) | 6 (3) | 9 (5) | 7 (3) | 10 (4) |
| 24 | 1 (0) | 1 (1) | 4 (1) | 6 (2) | 5 (1) | 7 (2) |
| 25 | 1 (1) | 1 (1) | 5 (2) | 7 (3) | 5 (2) | 7 (3) |
| 26 | 1 (0) | 1 (0) | 4 (1) | 6 (2) | 4 (1) | 6 (1) |
| 27 | 1 (0) | 2 (0) | 4 (1) | 6 (1) | 5 (1) | 7 (2) |
| 28 | 1 (0) | 1 (0) | 5 (1) | 7 (1) | 5 (1) | 8 (1) |
| 29 | 1 (1) | 2 (1) | 5 (1) | 6 (1) | 5 (1) | 7 (1) |
| 30 | 0 (0) | 1 (0) | 5 (1) | 7 (1) | 6 (1) | 8 (1) |
| 31 | 1 (0) | 1 (1) | 4 (1) | 6 (2) | 5 (1) | 7 (1) |
| Mean | 1 | 2 | 5 | 7 | 6 | 8 |
| n | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 1 | 1 | 1 | 2 | 2 | 2 |
| Min | 0 | 0 | 3 | 5 | 3 | 5 |
| Max | 4 | 5 | 8 | 11 | 11 | 16 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for August, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (1) | 2 (1) | 5 (1) | 8 (2) | 7 (1) | 9 (2) |
| 2 | 1 (0) | 2 (0) | 6 (1) | 8 (1) | 6 (1) | 9 (1) |
| 3 | 1 (0) | 2 (1) | 5 (1) | 8 (1) | 7 (2) | 9 (2) |
| 4 | 1 (0) | 1 (0) | 5 (2) | 8 (3) | 6 (2) | 8 (3) |
| 5 | 2 (0) | 2 (0) | 5 (1) | 7 (1) | 6 (2) | 8 (3) |
| 6 | 0 (1) | 1 (1) | 5 (1) | 7 (1) | 5 (1) | 7 (1) |
| 7 | 1 (0) | 1 (0) | 6 (2) | 9 (4) | 6 (2) | 8 (2) |
| 8 | 1 (1) | 1 (1) | 6 (5) | 9 (7) | 5 (2) | 7 (2) |
| 9 | 1 (0) | 1 (1) | 4 (1) | 5 (1) | 4 (2) | 6 (3) |
| 10 | 1 (1) | 1 (1) | 3 (1) | 5 (2) | 3 (1) | 5 (1) |
| 11 | 1 (0) | 1 (1) | 3 (1) | 5 (1) | 3 (1) | 5 (1) |
| 12 | 0 (0) | 0 (1) | 4 (1) | 5 (2) | 3 (1) | 5 (1) |
| 13 | 1 (0) | 1 (0) | 4 (1) | 6 (1) | 4 (1) | 6 (2) |
| 14 | 1 (0) | 1 (0) | 6 (2) | 9 (3) | 6 (2) | 9 (3) |
| 15 | 2 (2) | 3 (3) | 5 (1) | 8 (2) | 5 (1) | 8 (1) |
| 16 | 3 (3) | 4 (5) | 7 (3) | 10 (4) | 8 (2) | 11 (3) |
| 17 | 1 (0) | 1 (0) | | | | |
| 18 | 1 (1) | 2 (1) | | | | |
| 19 | 1 (0) | 1 (1) | 4 (1) | 6 (1) | 4 (1) | 6 (1) |
| 20 | 1 (0) | 2 (1) | 4 (1) | 6 (1) | 5 (1) | 7 (2) |
| 21 | 1 (0) | 2 (1) | 4 (1) | 6 (2) | 5 (1) | 7 (1) |
| 22 | 1 (1) | 1 (1) | 5 (1) | 7 (1) | 5 (1) | 7 (1) |
| 23 | 1 (1) | 2 (1) | 6 (1) | 8 (2) | 7 (3) | 11 (4) |
| 24 | 1 (0) | 1 (0) | 6 (1) | 8 (1) | 6 (2) | 9 (2) |
| 25 | 2 (2) | 3 (2) | 7 (3) | 10 (4) | 8 (3) | 12 (4) |
| 26 | 1 (1) | 2 (1) | 7 (4) | 10 (6) | 8 (3) | 11 (5) |
| 27 | 1 (1) | 2 (1) | 4 (1) | 5 (1) | 5 (2) | 7 (2) |
| 28 | 2 (1) | 2 (2) | 4 (1) | 6 (1) | 6 (1) | 8 (2) |
| 29 | 0 (0) | 0 (0) | 4 (1) | 6 (1) | 5 (1) | 7 (1) |
| 30 | 1 (1) | 2 (1) | 4 (1) | 5 (1) | 5 (2) | 7 (2) |
| 31 | 1 (0) | 1 (0) | 7 (1) | 9 (2) | 8 (1) | 11 (2) |
| Mean | 1 | 2 | 5 | 7 | 6 | 8 |
| n | 31 | 31 | 29 | 29 | 29 | 29 |
| SD | 1 | 1 | 1 | 2 | 1 | 2 |
| Min | 0 | 0 | 3 | 5 | 3 | 5 |
| Max | 3 | 4 | 7 | 10 | 8 | 12 |

**Table E10. Daily means (SD) of H2S concentrations at Site NC2B for September, 2009.**

| Day | Inlet | | House 3 | | House 4 | |
|---|---|---|---|---|---|---|
| | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ | ppb | µg·dsm$^{-3}$ |
| 1 | 1 (0) | 1 (0) | 6 (3) | 9 (5) | 7 (3) | 10 (4) |
| 2 | 0 (0) | 1 (0) | 5 (2) | 8 (3) | 6 (2) | 9 (3) |
| 3 | 1 (1) | 1 (1) | 4 (1) | 6 (2) | 6 (1) | 8 (2) |
| 4 | 0 (0) | 0 (1) | 4 (2) | 6 (2) | 5 (2) | 8 (3) |
| 5 | 1 (1) | 1 (1) | 6 (2) | 8 (3) | 7 (2) | 10 (3) |
| 6 | 1 (1) | 1 (1) | 5 (2) | 8 (3) | 7 (2) | 9 (3) |
| 7 | 1 (0) | 2 (0) | 5 (2) | 8 (3) | 6 (1) | 8 (1) |
| 8 | 1 (1) | 2 (1) | 4 (1) | 6 (1) | 6 (1) | 9 (1) |
| 9 | 1 (0) | 2 (0) | 5 (1) | 7 (1) | 7 (1) | 9 (1) |
| 10 | 1 (0) | 1 (1) | 6 (2) | 9 (2) | 7 (1) | 10 (2) |
| 11 | 1 (1) | 2 (1) | 8 (4) | 11 (5) | 10 (5) | 14 (6) |
| 12 | 2 (1) | 3 (2) | 7 (4) | 11 (6) | 11 (6) | 16 (9) |
| 13 | 1 (1) | 2 (1) | 7 (3) | 10 (5) | 9 (5) | 13 (7) |
| 14 | 1 (1) | 1 (1) | 7 (4) | 11 (6) | 13 (7) | 19 (11) |
| 15 | 1 (0) | 2 (0) | 10 (7) | 14 (10) | 13 (8) | 18 (12) |
| 16 | 1 (1) | 2 (2) | 6 (3) | 9 (4) | 9 (3) | 13 (5) |
| 17 | 1 (1) | 2 (1) | 8 (2) | 12 (3) | 11 (2) | 16 (2) |
| 18 | 1 (1) | 1 (1) | 9 (3) | 13 (5) | 12 (3) | 17 (4) |
| 19 | 1 (1) | 2 (1) | 10 (5) | 15 (7) | 14 (7) | 20 (10) |
| 20 | 3 (1) | 4 (2) | 10 (5) | 15 (7) | 14 (7) | 20 (10) |
| 21 | 1 (1) | 2 (1) | 11 (5) | 16 (8) | 15 (7) | 21 (10) |
| 22 | 2 (0) | 2 (0) | 10 (4) | 15 (5) | 13 (7) | 18 (10) |
| 23 | 2 (1) | 3 (1) | 8 (3) | 12 (4) | 10 (2) | 14 (3) |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| Mean | 1 | 2 | 7 | 10 | 9 | 13 |
| n | 23 | 23 | 23 | 23 | 23 | 23 |
| SD | 1 | 1 | 2 | 3 | 3 | 5 |
| Min | 0 | 0 | 4 | 6 | 5 | 8 |
| Max | 3 | 4 | 11 | 16 | 15 | 21 |

## Table E11. Hydrogen sulfide emissions.

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for September,2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | -3.7 (95.0) | -1.2 (30.2) | -40 (1030) | -13 (346) |
| 30 | | | | | 34.9 (21.1) | 11.1 (6.7) | 380 (229) | 127 (77) |
| Mean | | | | | 15.6 | 5.0 | 170 | 57 |
| n | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| SD | | | | | 19.3 | 6.1 | 210 | 70 |
| Min | | | | | -3.7 | -1.2 | -40 | -13 |
| Max | | | | | 34.9 | 11.1 | 380 | 127 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for October,2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | 25.0 (22.4) | 7.9 (7.1) | 271 (243) | 91 (82) |
| 2 | | | | | 41.8 (33.0) | 13.3 (10.5) | 454 (358) | 152 (120) |
| 3 | | | | | 63.8 (42.6) | 20.2 (13.5) | 693 (463) | 232 (155) |
| 4 | 36.9 (31.2) | 11.7 (9.9) | 388 (327) | 119 (100) | 41.1 (44.6) | 13.1 (14.2) | 447 (485) | 150 (162) |
| 5 | 37.6 (22.3) | 11.9 (7.1) | 394 (234) | 121 (72) | 43.7 (23.8) | 13.9 (7.6) | 475 (259) | 159 (87) |
| 6 | 38.6 (42.3) | 12.2 (13.4) | 405 (444) | 124 (136) | 63.9 (54.0) | 20.3 (17.2) | 694 (587) | 233 (197) |
| 7 | 41.0 (18.9) | 13.0 (6.0) | 430 (198) | 132 (61) | 65.5 (37.9) | 20.8 (12.0) | 712 (412) | 239 (138) |
| 8 | 37.2 (15.3) | 11.8 (4.9) | 390 (160) | 120 (49) | 109.0 (87.1) | 34.5 (27.6) | 1180 (947) | 396 (317) |
| 9 | 55.9 (33.4) | 17.7 (10.6) | 587 (350) | 180 (107) | 73.1 (29.3) | 23.2 (9.3) | 794 (319) | 266 (107) |
| 10 | 44.5 (58.2) | 14.1 (18.5) | 467 (611) | 143 (187) | 30.1 (75.8) | 9.6 (24.1) | 328 (824) | 110 (276) |
| 11 | 30.2 (18.0) | 9.6 (5.7) | 317 (188) | 97 (58) | 31.9 (17.4) | 10.1 (5.5) | 347 (189) | 116 (63) |
| 12 | 33.2 (17.0) | 10.5 (5.4) | 348 (178) | 107 (55) | 31.3 (13.8) | 9.9 (4.4) | 341 (150) | 114 (50) |
| 13 | 29.7 (19.4) | 9.4 (6.2) | 311 (203) | 95 (62) | 31.4 (16.4) | 10.0 (5.2) | 341 (179) | 114 (60) |
| 14 | 32.5 (16.6) | 10.3 (5.3) | 341 (174) | 105 (53) | 36.8 (16.3) | 11.7 (5.2) | 400 (178) | 134 (60) |
| 15 | 30.3 (22.2) | 9.6 (7.0) | 318 (233) | 97 (71) | 33.6 (19.3) | 10.7 (6.1) | 366 (209) | 122 (70) |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | 53.0 (24.7) | 16.8 (7.8) | 556 (259) | 170 (79) | 73.1 (46.3) | 23.2 (14.7) | 795 (503) | 266 (168) |
| 19 | 52.6 (13.4) | 16.7 (4.3) | 552 (141) | 169 (43) | 66.8 (17.8) | 21.2 (5.7) | 726 (194) | 243 (65) |
| 20 | 31.5 (12.0) | 10.0 (3.8) | 330 (126) | 101 (38) | 40.9 (13.4) | 13.0 (4.3) | 445 (146) | 149 (49) |
| 21 | 20.5 (10.5) | 6.5 (3.3) | 215 (110) | 66 (34) | 34.2 (14.4) | 10.9 (4.6) | 372 (156) | 125 (52) |
| 22 | 33.1 (16.3) | 10.5 (5.2) | 347 (171) | 106 (52) | 47.6 (20.5) | 15.1 (6.5) | 518 (223) | 173 (75) |
| 23 | 51.4 (17.0) | 16.3 (5.4) | 539 (179) | 165 (55) | 57.0 (15.4) | 18.1 (4.9) | 620 (168) | 207 (56) |
| 24 | 61.1 (18.5) | 19.4 (5.9) | 641 (194) | 196 (59) | 64.0 (20.4) | 20.3 (6.5) | 697 (222) | 233 (74) |
| 25 | 41.9 (8.9) | 13.3 (2.8) | 440 (93) | 134 (28) | 47.8 (11.1) | 15.2 (3.5) | 520 (121) | 174 (41) |
| 26 | 57.2 (16.9) | 18.1 (5.4) | 600 (177) | 183 (54) | 68.0 (20.9) | 21.6 (6.6) | 740 (228) | 248 (76) |
| 27 | 45.7 (15.1) | 14.5 (4.8) | 480 (158) | 147 (48) | 50.8 (15.1) | 16.1 (4.8) | 553 (164) | 185 (55) |
| 28 | 40.6 (19.8) | 12.9 (6.3) | 426 (207) | 130 (63) | 42.9 (19.9) | 13.6 (6.3) | 467 (216) | 156 (72) |
| 29 | 33.0 (11.7) | 10.5 (3.7) | 346 (123) | 106 (38) | 33.3 (13.5) | 10.6 (4.3) | 363 (147) | 121 (49) |
| 30 | 33.0 (10.9) | 10.5 (3.5) | 346 (114) | 106 (35) | 34.6 (13.2) | 11.0 (4.2) | 377 (144) | 126 (48) |
| 31 | 39.8 (16.4) | 12.6 (5.2) | 418 (172) | 128 (53) | 46.1 (15.8) | 14.6 (5.0) | 502 (172) | 168 (58) |
| Mean | 40.1 | 12.7 | 420 | 129 | 49.3 | 15.6 | 536 | 179 |
| n | 26 | 26 | 26 | 26 | 29 | 29 | 29 | 29 |
| SD | 9.9 | 3.1 | 104 | 32 | 18.2 | 5.8 | 198 | 66 |
| Min | 20.5 | 6.5 | 215 | 66 | 25.0 | 7.9 | 271 | 91 |
| Max | 61.1 | 19.4 | 641 | 196 | 109.0 | 34.5 | 1180 | 396 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for November,2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 45.9 (21.1) | 14.6 (6.7) | 481 (222) | 147 (68) | 49.5 (23.5) | 15.7 (7.5) | 539 (256) | 180 (86) |
| 2 | 31.2 (14.7) | 9.9 (4.7) | 327 (154) | 100 (47) | 33.2 (21.0) | 10.6 (6.7) | 362 (228) | 121 (76) |
| 3 | 35.3 (13.3) | 11.2 (4.2) | 371 (140) | 113 (43) | 45.0 (18.8) | 14.3 (6.0) | 490 (205) | 164 (68) |
| 4 | 32.8 (15.0) | 10.4 (4.8) | 344 (157) | 105 (48) | 42.8 (17.2) | 13.6 (5.5) | 465 (188) | 156 (63) |
| 5 | 29.4 (10.4) | 9.4 (3.3) | 309 (109) | 94 (33) | 42.7 (15.1) | 13.6 (4.8) | 465 (165) | 155 (55) |
| 6 | 35.6 (15.9) | 11.3 (5.1) | 373 (167) | 114 (51) | 44.1 (28.1) | 14.0 (8.9) | 480 (306) | 160 (102) |
| 7 | 28.2 (14.8) | 8.9 (4.7) | 295 (156) | 90 (48) | 36.1 (13.9) | 11.5 (4.4) | 393 (151) | 131 (50) |
| 8 | 27.2 (11.4) | 8.6 (3.6) | 285 (120) | 87 (37) | | | | |
| 9 | 32.4 (16.1) | 10.3 (5.1) | 340 (169) | 104 (52) | | | | |
| 10 | 29.7 (14.3) | 9.4 (4.6) | 311 (150) | 95 (46) | | | | |
| 11 | 30.1 (14.7) | 9.6 (4.7) | 316 (154) | 96 (47) | | | | |
| 12 | 34.7 (15.9) | 11.0 (5.1) | 364 (167) | 111 (51) | | | | |
| 13 | 40.5 (13.0) | 12.8 (4.1) | 424 (136) | 129 (42) | | | | |
| 14 | | | | | | | | |
| 15 | 34.9 (15.9) | 11.1 (5.0) | 366 (167) | 111 (51) | 45.6 (27.7) | 14.5 (8.8) | 497 (301) | 166 (101) |
| 16 | 30.2 (13.4) | 9.6 (4.3) | 316 (141) | 96 (43) | 36.9 (15.3) | 11.7 (4.9) | 402 (167) | 134 (56) |
| 17 | 30.8 (12.2) | 9.8 (3.9) | 323 (128) | 99 (39) | 42.4 (22.7) | 13.5 (7.2) | 462 (247) | 154 (82) |
| 18 | 37.5 (14.1) | 11.9 (4.5) | 393 (148) | 120 (45) | 50.0 (23.8) | 15.9 (7.6) | 545 (259) | 182 (87) |
| 19 | 37.8 (14.3) | 12.0 (4.5) | 396 (150) | 121 (46) | 45.6 (21.8) | 14.5 (6.9) | 497 (237) | 166 (79) |
| 20 | 40.8 (25.2) | 12.9 (8.0) | 428 (264) | 130 (80) | 49.4 (27.5) | 15.7 (8.7) | 538 (300) | 180 (100) |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | 36.1 (18.9) | 11.5 (6.0) | 378 (198) | 115 (60) | 39.4 (20.6) | 12.5 (6.5) | 429 (224) | 143 (75) |
| 28 | 28.6 (13.1) | 9.1 (4.2) | 300 (138) | 91 (42) | 30.1 (13.7) | 9.6 (4.4) | 328 (150) | 109 (50) |
| 29 | | | | | | | | |
| 30 | 27.2 (10.9) | 8.6 (3.5) | 285 (114) | 87 (35) | 27.9 (11.8) | 8.9 (3.8) | 304 (129) | 101 (43) |
| Mean | 33.5 | 10.6 | 351 | 107 | 41.3 | 13.1 | 450 | 150 |
| n | 22 | 22 | 22 | 22 | 16 | 16 | 16 | 16 |
| SD | 4.8 | 1.5 | 50 | 15 | 6.6 | 2.1 | 72 | 24 |
| Min | 27.2 | 8.6 | 285 | 87 | 27.9 | 8.9 | 304 | 101 |
| Max | 45.9 | 14.6 | 481 | 147 | 50.0 | 15.9 | 545 | 182 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for December,2007**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 28.8 (13.6) | 9.2 (4.3) | 302 (142) | 92 (43) | 30.3 (14.6) | 9.6 (4.6) | 330 (159) | 110 (53) |
| 2 | 33.3 (13.5) | 10.6 (4.3) | 349 (141) | 106 (43) | 33.2 (10.6) | 10.5 (3.4) | 361 (115) | 121 (38) |
| 3 | 41.9 (19.7) | 13.3 (6.3) | 439 (206) | 133 (63) | 36.4 (16.1) | 11.6 (5.1) | 397 (175) | 132 (59) |
| 4 | 30.7 (10.8) | 9.7 (3.4) | 321 (113) | 98 (34) | 28.0 (9.0) | 8.9 (2.9) | 305 (98) | 102 (33) |
| 5 | 32.4 (19.6) | 10.3 (6.2) | 340 (205) | 103 (62) | 30.7 (19.5) | 9.8 (6.2) | 335 (213) | 112 (71) |
| 6 | 32.5 (10.2) | 10.3 (3.2) | 341 (107) | 103 (33) | 34.7 (14.2) | 11.0 (4.5) | 379 (154) | 126 (52) |
| 7 | 39.5 (16.0) | 12.5 (5.1) | 414 (167) | 126 (51) | 35.8 (15.2) | 11.4 (4.8) | 391 (166) | 130 (55) |
| 8 | 47.3 (16.8) | 15.0 (5.3) | 496 (176) | 150 (54) | 46.2 (15.6) | 14.7 (5.0) | 503 (170) | 168 (57) |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 29.0 (30.7) | 9.2 (9.7) | 304 (321) | 92 (98) | 33.4 (36.0) | 10.6 (11.4) | 364 (393) | 121 (131) |
| 12 | 50.2 (18.4) | 15.9 (5.8) | 526 (193) | 160 (59) | 60.6 (19.3) | 19.2 (6.1) | 661 (211) | 220 (70) |
| 13 | 32.3 (14.3) | 10.3 (4.5) | 339 (150) | 103 (46) | 36.3 (17.5) | 11.5 (5.6) | 396 (191) | 132 (64) |
| 14 | 28.2 (17.9) | 9.0 (5.7) | 296 (187) | 90 (57) | 33.3 (17.2) | 10.6 (5.5) | 363 (188) | 121 (63) |
| 15 | 24.8 (10.2) | 7.9 (3.2) | 260 (107) | 79 (32) | 26.9 (12.1) | 8.5 (3.9) | 293 (132) | 98 (44) |
| 16 | 28.0 (12.5) | 8.9 (4.0) | 293 (131) | 89 (40) | 28.2 (12.1) | 9.0 (3.9) | 308 (132) | 102 (44) |
| 17 | 20.7 (7.5) | 6.6 (2.4) | 216 (78) | 66 (24) | 22.7 (7.1) | 7.2 (2.3) | 248 (77) | 83 (26) |
| 18 | 18.1 (12.3) | 5.7 (3.9) | 189 (129) | 57 (39) | 22.3 (11.8) | 7.1 (3.7) | 243 (129) | 81 (43) |
| 19 | 21.1 (8.2) | 6.7 (2.6) | 221 (86) | 67 (26) | 24.3 (8.7) | 7.7 (2.8) | 266 (95) | 88 (32) |
| 20 | 24.2 (15.2) | 7.7 (4.8) | 254 (159) | 77 (48) | 29.9 (17.2) | 9.5 (5.5) | 327 (188) | 109 (63) |
| 21 | 25.0 (10.8) | 7.9 (3.4) | 262 (113) | 79 (34) | 30.8 (14.4) | 9.8 (4.6) | 337 (157) | 112 (52) |
| 22 | 28.1 (14.4) | 8.9 (4.6) | 294 (151) | 89 (46) | 34.3 (19.6) | 10.9 (6.2) | 374 (214) | 125 (71) |
| 23 | 31.1 (11.5) | 9.9 (3.7) | 326 (121) | 99 (37) | 41.5 (17.1) | 13.2 (5.4) | 453 (187) | 151 (62) |
| 24 | 25.6 (16.5) | 8.1 (5.3) | 268 (173) | 81 (53) | 28.8 (18.3) | 9.2 (5.8) | 315 (200) | 105 (67) |
| 25 | 27.6 (16.0) | 8.8 (5.1) | 289 (167) | 88 (51) | 27.3 (15.6) | 8.7 (5.0) | 298 (170) | 99 (57) |
| 26 | 25.7 (13.1) | 8.2 (4.2) | 270 (138) | 82 (42) | 24.6 (12.3) | 7.8 (3.9) | 268 (134) | 89 (45) |
| 27 | 32.9 (16.3) | 10.4 (5.2) | 344 (171) | 104 (52) | 29.8 (14.3) | 9.5 (4.5) | 325 (156) | 108 (52) |
| 28 | 34.1 (15.6) | 10.8 (5.0) | 358 (163) | 108 (50) | 31.3 (17.1) | 9.9 (5.4) | 342 (187) | 114 (62) |
| 29 | 45.4 (19.6) | 14.4 (6.2) | 476 (205) | 144 (62) | 44.9 (16.5) | 14.3 (5.2) | 490 (180) | 163 (60) |
| 30 | 37.6 (17.2) | 11.9 (5.5) | 394 (181) | 119 (55) | 35.1 (16.3) | 11.1 (5.2) | 383 (178) | 127 (59) |
| 31 | | | | | | | | |
| Mean | 31.3 | 9.9 | 328 | 99 | 32.9 | 10.4 | 359 | 120 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 7.8 | 2.5 | 82 | 25 | 7.9 | 2.5 | 86 | 29 |
| Min | 18.1 | 5.7 | 189 | 57 | 22.3 | 7.1 | 243 | 81 |
| Max | 50.2 | 15.9 | 526 | 160 | 60.6 | 19.2 | 661 | 220 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for January,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | 23.5 (11.0) | 7.5 (3.5) | 246 (115) | 74 (35) | 21.9 (9.5) | 7.0 (3.0) | 239 (104) | 80 (35) |
| 5 | 24.7 (18.3) | 7.8 (5.8) | 259 (192) | 78 (58) | 27.2 (15.8) | 8.6 (5.0) | 297 (173) | 99 (58) |
| 6 | 27.8 (9.8) | 8.8 (3.1) | 291 (102) | 88 (31) | 34.9 (14.4) | 11.1 (4.6) | 381 (158) | 127 (52) |
| 7 | 28.4 (12.7) | 9.0 (4.0) | 297 (133) | 90 (40) | 30.0 (9.8) | 9.5 (3.1) | 328 (107) | 109 (36) |
| 8 | 33.2 (14.8) | 10.5 (4.7) | 348 (155) | 105 (47) | 34.7 (16.4) | 11.0 (5.2) | 379 (179) | 126 (60) |
| 9 | 33.2 (12.4) | 10.5 (4.0) | 348 (130) | 105 (39) | 35.7 (16.4) | 11.3 (5.2) | 390 (180) | 130 (60) |
| 10 | 29.5 (22.3) | 9.4 (7.1) | 309 (233) | 93 (70) | 29.9 (11.7) | 9.5 (3.7) | 326 (128) | 108 (42) |
| 11 | 33.2 (7.3) | 10.5 (2.3) | 348 (76) | 105 (23) | 38.9 (13.2) | 12.4 (4.2) | 425 (145) | 141 (48) |
| 12 | 26.1 (14.8) | 8.3 (4.7) | 274 (155) | 83 (47) | 27.7 (15.9) | 8.8 (5.1) | 303 (174) | 101 (58) |
| 13 | 24.9 (10.4) | 7.9 (3.3) | 261 (109) | 79 (33) | 25.8 (10.2) | 8.2 (3.3) | 282 (112) | 94 (37) |
| 14 | 24.0 (12.8) | 7.6 (4.1) | 252 (134) | 76 (41) | 24.2 (12.5) | 7.7 (4.0) | 265 (137) | 88 (46) |
| 15 | 24.3 (10.3) | 7.7 (3.3) | 255 (107) | 77 (32) | 24.1 (11.7) | 7.6 (3.7) | 263 (128) | 87 (43) |
| 16 | 25.6 (11.0) | 8.1 (3.5) | 269 (116) | 81 (35) | 27.9 (14.0) | 8.9 (4.5) | 305 (153) | 101 (51) |
| 17 | 24.5 (14.9) | 7.8 (4.7) | 257 (156) | 77 (47) | 27.0 (17.6) | 8.6 (5.6) | 295 (192) | 98 (64) |
| 18 | 27.3 (12.0) | 8.7 (3.8) | 286 (126) | 86 (38) | 30.2 (18.3) | 9.6 (5.8) | 330 (201) | 110 (67) |
| 19 | 26.7 (18.8) | 8.5 (6.0) | 280 (197) | 84 (60) | 30.8 (15.4) | 9.8 (4.9) | 337 (169) | 112 (56) |
| 20 | 23.1 (10.2) | 7.3 (3.2) | 242 (107) | 73 (32) | 24.4 (10.4) | 7.8 (3.3) | 267 (114) | 89 (38) |
| 21 | 17.0 (10.0) | 5.4 (3.2) | 178 (105) | 54 (32) | 23.8 (18.9) | 7.6 (6.0) | 261 (207) | 87 (69) |
| 22 | 23.8 (12.5) | 7.6 (4.0) | 249 (131) | 75 (39) | 27.1 (20.1) | 8.6 (6.4) | 296 (219) | 98 (73) |
| 23 | 29.6 (19.6) | 9.4 (6.2) | 310 (206) | 93 (62) | 33.4 (19.3) | 10.6 (6.1) | 365 (211) | 121 (70) |
| 24 | 21.6 (17.8) | 6.9 (5.7) | 226 (187) | 68 (56) | 22.0 (16.5) | 7.0 (5.3) | 240 (181) | 80 (60) |
| 25 | 23.4 (14.7) | 7.4 (4.7) | 246 (154) | 74 (46) | 28.2 (10.8) | 9.0 (3.4) | 309 (118) | 102 (39) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 24.1 (14.7) | 7.7 (4.7) | 253 (153) | 76 (46) | 27.2 (14.6) | 8.6 (4.6) | 297 (159) | 99 (53) |
| 29 | 29.1 (14.4) | 9.3 (4.6) | 305 (150) | 92 (45) | 32.6 (14.0) | 10.3 (4.5) | 356 (153) | 118 (51) |
| 30 | 30.5 (16.2) | 9.7 (5.1) | 319 (170) | 96 (51) | 32.5 (15.2) | 10.3 (4.8) | 355 (166) | 118 (55) |
| 31 | 22.8 (11.6) | 7.3 (3.7) | 239 (121) | 72 (37) | 24.6 (11.6) | 7.8 (3.7) | 269 (127) | 89 (42) |
| Mean | 26.2 | 8.3 | 275 | 83 | 28.7 | 9.1 | 314 | 104 |
| n | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 3.8 | 1.2 | 40 | 12 | 4.4 | 1.4 | 48 | 16 |
| Min | 17.0 | 5.4 | 178 | 54 | 21.9 | 7.0 | 239 | 80 |
| Max | 33.2 | 10.5 | 348 | 105 | 38.9 | 12.4 | 425 | 141 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for February,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 30.3 (11.8) | 9.6 (3.8) | 317 (124) | 96 (37) | 30.9 (18.5) | 9.8 (5.9) | 338 (202) | 112 (67) |
| 2 | 24.2 (16.8) | 7.7 (5.4) | 254 (176) | 76 (53) | 27.7 (17.5) | 8.8 (5.6) | 303 (192) | 101 (64) |
| 3 | 23.1 (13.9) | 7.3 (4.4) | 242 (146) | 73 (44) | 25.6 (14.0) | 8.1 (4.4) | 280 (153) | 93 (51) |
| 4 | 34.4 (21.5) | 10.9 (6.8) | 360 (225) | 108 (68) | 35.7 (17.4) | 11.3 (5.5) | 391 (190) | 130 (63) |
| 5 | 37.3 (17.1) | 11.8 (5.4) | 390 (179) | 117 (54) | 36.4 (17.3) | 11.6 (5.5) | 399 (190) | 132 (63) |
| 6 | 22.4 (23.5) | 7.1 (7.5) | 234 (246) | 70 (74) | 19.1 (27.1) | 6.1 (8.6) | 209 (296) | 69 (98) |
| 7 | 26.7 (23.3) | 8.5 (7.4) | 280 (244) | 84 (73) | 27.6 (19.6) | 8.8 (6.2) | 302 (214) | 100 (71) |
| 8 | | | | | | | | |
| 9 | 13.0 (26.8) | 4.1 (8.5) | 136 (280) | 41 (84) | 13.4 (28.1) | 4.2 (8.9) | 146 (308) | 49 (102) |
| 10 | 28.8 (13.5) | 9.1 (4.3) | 301 (141) | 91 (42) | 28.9 (12.6) | 9.2 (4.0) | 317 (137) | 105 (46) |
| 11 | 24.7 (10.7) | 7.8 (3.4) | 258 (112) | 78 (34) | 26.3 (11.4) | 8.3 (3.6) | 288 (125) | 95 (42) |
| 12 | 29.1 (16.2) | 9.2 (5.2) | 304 (170) | 91 (51) | 32.3 (19.1) | 10.3 (6.1) | 354 (209) | 117 (69) |
| 13 | 35.0 (12.1) | 11.1 (3.9) | 367 (127) | 110 (38) | 42.1 (19.3) | 13.4 (6.1) | 461 (211) | 153 (70) |
| 14 | 29.1 (17.8) | 9.2 (5.6) | 305 (186) | 92 (56) | 30.9 (15.1) | 9.8 (4.8) | 338 (165) | 112 (55) |
| 15 | 31.7 (13.0) | 10.1 (4.1) | 332 (136) | 100 (41) | 36.0 (16.7) | 11.4 (5.3) | 394 (183) | 130 (61) |
| 16 | 32.2 (15.1) | 10.2 (4.8) | 337 (159) | 101 (48) | 34.7 (15.8) | 11.0 (5.0) | 380 (173) | 126 (58) |
| 17 | | | | | | | | |
| 18 | 40.3 (13.2) | 12.8 (4.2) | 422 (139) | 127 (42) | 44.0 (15.0) | 14.0 (4.8) | 481 (164) | 159 (54) |
| 19 | 31.9 (15.9) | 10.1 (5.1) | 334 (167) | 100 (50) | 31.4 (11.0) | 10.0 (3.5) | 344 (120) | 114 (40) |
| 20 | 30.8 (13.3) | 9.8 (4.2) | 322 (139) | 97 (42) | 30.3 (12.8) | 9.6 (4.1) | 332 (141) | 110 (47) |
| 21 | 29.1 (16.5) | 9.3 (5.2) | 305 (173) | 92 (52) | 32.6 (15.5) | 10.4 (4.9) | 357 (170) | 118 (56) |
| 22 | 30.8 (16.7) | 9.8 (5.3) | 322 (175) | 97 (52) | 30.8 (9.0) | 9.8 (2.9) | 337 (99) | 112 (33) |
| 23 | 39.3 (16.4) | 12.5 (5.2) | 411 (172) | 123 (52) | 39.6 (14.6) | 12.6 (4.6) | 434 (159) | 144 (53) |
| 24 | 33.3 (13.6) | 10.6 (4.3) | 349 (142) | 105 (43) | 37.2 (12.4) | 11.8 (3.9) | 408 (136) | 135 (45) |
| 25 | 34.1 (20.4) | 10.8 (6.5) | 357 (214) | 107 (64) | 36.9 (17.0) | 11.7 (5.4) | 405 (186) | 134 (62) |
| 26 | 37.4 (15.2) | 11.9 (4.8) | 392 (159) | 117 (48) | 41.0 (20.1) | 13.0 (6.4) | 450 (220) | 149 (73) |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | 31.2 (14.2) | 9.9 (4.5) | 326 (148) | 98 (44) | 38.7 (17.8) | 12.3 (5.7) | 424 (195) | 140 (65) |
| Mean | 30.4 | 9.7 | 318 | 96 | 32.4 | 10.3 | 355 | 118 |
| n | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| SD | 5.9 | 1.9 | 61 | 18 | 6.9 | 2.2 | 75 | 25 |
| Min | 13.0 | 4.1 | 136 | 41 | 13.4 | 4.2 | 146 | 49 |
| Max | 40.3 | 12.8 | 422 | 127 | 44.0 | 14.0 | 481 | 159 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for March,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 30.5 (11.0) | 9.7 (3.5) | 319 (116) | 96 (35) | 39.0 (18.7) | 12.4 (5.9) | 427 (205) | 141 (68) |
| 2 | 26.3 (10.3) | 8.4 (3.3) | 275 (108) | 82 (32) | 32.2 (12.7) | 10.2 (4.0) | 353 (139) | 117 (46) |
| 3 | 9.9 (22.5) | 3.1 (7.1) | 103 (235) | 31 (70) | 17.4 (30.0) | 5.5 (9.5) | 191 (329) | 63 (109) |
| 4 | | | | | | | | |
| 5 | 36.4 (14.9) | 11.6 (4.7) | 381 (156) | 114 (47) | 49.9 (24.7) | 15.9 (7.9) | 547 (271) | 181 (90) |
| 6 | 32.9 (14.2) | 10.5 (4.5) | 345 (148) | 103 (44) | 45.8 (18.8) | 14.5 (6.0) | 502 (206) | 166 (68) |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | 30.2 (14.1) | 9.6 (4.5) | 316 (148) | 95 (44) | 53.2 (30.7) | 16.9 (9.7) | 583 (336) | 193 (111) |
| 12 | 31.6 (13.2) | 10.0 (4.2) | 330 (138) | 99 (41) | 64.6 (58.0) | 20.5 (18.4) | 709 (635) | 234 (210) |
| 13 | 35.2 (15.3) | 11.2 (4.9) | 368 (160) | 110 (48) | 69.2 (52.7) | 22.0 (16.7) | 759 (578) | 251 (191) |
| 14 | 60.7 (57.7) | 19.3 (18.3) | 635 (604) | 190 (180) | 31.5 (15.1) | 10.0 (4.8) | 346 (165) | 114 (55) |
| 15 | 72.9 (62.2) | 23.1 (19.8) | 763 (651) | 228 (195) | 42.6 (20.9) | 13.5 (6.7) | 468 (230) | 155 (76) |
| 16 | 41.7 (22.0) | 13.2 (7.0) | 436 (230) | 130 (69) | 43.4 (19.1) | 13.8 (6.1) | 476 (209) | 157 (69) |
| 17 | 59.9 (50.2) | 19.0 (15.9) | 627 (526) | 187 (157) | 39.6 (16.2) | 12.6 (5.2) | 434 (178) | 144 (59) |
| 18 | 35.5 (23.3) | 11.3 (7.4) | 372 (244) | 111 (73) | 40.8 (16.8) | 13.0 (5.3) | 448 (184) | 148 (61) |
| 19 | 44.4 (17.3) | 14.1 (5.5) | 465 (181) | 139 (54) | 49.3 (19.6) | 15.6 (6.2) | 541 (215) | 179 (71) |
| 20 | 36.2 (17.8) | 11.5 (5.7) | 379 (187) | 113 (56) | 33.0 (11.3) | 10.5 (3.6) | 361 (124) | 119 (41) |
| 21 | 34.2 (12.4) | 10.9 (3.9) | 358 (129) | 107 (39) | 33.5 (10.7) | 10.6 (3.4) | 368 (118) | 121 (39) |
| 22 | 31.8 (15.9) | 10.1 (5.0) | 333 (166) | 99 (50) | 32.8 (15.5) | 10.4 (4.9) | 360 (171) | 119 (56) |
| 23 | 26.7 (11.8) | 8.5 (3.8) | 279 (124) | 83 (37) | 32.9 (14.5) | 10.4 (4.6) | 361 (159) | 119 (53) |
| 24 | 28.9 (12.2) | 9.2 (3.9) | 303 (128) | 90 (38) | 35.8 (17.2) | 11.4 (5.5) | 393 (189) | 130 (62) |
| 25 | 32.6 (15.8) | 10.3 (5.0) | 341 (165) | 102 (49) | 40.5 (14.3) | 12.9 (4.5) | 444 (157) | 147 (52) |
| 26 | 38.2 (15.0) | 12.1 (4.8) | 400 (157) | 119 (47) | 47.2 (24.0) | 15.0 (7.6) | 518 (263) | 171 (87) |
| 27 | 34.5 (13.4) | 11.0 (4.3) | 361 (140) | 108 (42) | 36.4 (25.0) | 11.5 (7.9) | 399 (274) | 132 (91) |
| 28 | 39.8 (19.7) | 12.6 (6.3) | 417 (207) | 124 (62) | 46.3 (22.0) | 14.7 (7.0) | 508 (241) | 168 (80) |
| 29 | 20.0 (7.4) | 6.3 (2.4) | 209 (78) | 62 (23) | 25.3 (29.8) | 8.0 (9.5) | 277 (327) | 92 (108) |
| 30 | 23.8 (11.5) | 7.6 (3.6) | 249 (120) | 74 (36) | 31.5 (12.7) | 10.0 (4.1) | 346 (140) | 114 (46) |
| 31 | 37.9 (19.3) | 12.0 (6.1) | 397 (202) | 118 (60) | 40.7 (20.4) | 12.9 (6.5) | 446 (224) | 147 (74) |
| Mean | 35.9 | 11.4 | 375 | 112 | 40.6 | 12.9 | 445 | 147 |
| n | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| SD | 12.6 | 4.0 | 132 | 39 | 10.9 | 3.5 | 120 | 40 |
| Min | 9.9 | 3.1 | 103 | 31 | 17.4 | 5.5 | 191 | 63 |
| Max | 72.9 | 23.1 | 763 | 228 | 69.2 | 22.0 | 759 | 251 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for April,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 52.9 (17.8) | 16.8 (5.7) | 554 (187) | 165 (56) | 50.6 (14.9) | 16.1 (4.7) | 556 (163) | 183 (54) |
| 2 | 11.2 (16.3) | 3.6 (5.2) | 117 (171) | 35 (51) | 8.2 (19.8) | 2.6 (6.3) | 90 (217) | 30 (72) |
| 3 | 34.5 (24.1) | 10.9 (7.6) | 361 (252) | 108 (75) | 38.7 (13.8) | 12.3 (4.4) | 426 (152) | 140 (50) |
| 4 | 66.8 (76.9) | 21.2 (24.4) | 699 (806) | 208 (240) | 49.9 (14.6) | 15.8 (4.6) | 548 (161) | 181 (53) |
| 5 | 44.5 (17.5) | 14.1 (5.5) | 466 (183) | 139 (55) | 57.1 (15.3) | 18.1 (4.9) | 627 (168) | 207 (55) |
| 6 | 26.6 (10.9) | 8.5 (3.5) | | | 41.1 (8.0) | 13.1 (2.5) | 452 (88) | 149 (29) |
| 7 | 19.4 (10.9) | 6.2 (3.5) | | | 39.1 (18.6) | 12.4 (5.9) | 430 (204) | 142 (67) |
| 8 | 12.7 (6.7) | 4.0 (2.1) | | | 39.6 (11.2) | 12.6 (3.6) | 436 (123) | 144 (41) |
| 9 | | | | | | | | |
| 10 | 0.9 (10.6) | 0.3 (3.4) | | | 39.7 (18.1) | 12.6 (5.7) | 437 (199) | 144 (66) |
| 11 | 2.3 (10.2) | 0.7 (3.2) | | | | | | |
| 12 | 6.8 (8.8) | 2.1 (2.8) | | | 45.6 (14.9) | 14.5 (4.7) | 502 (164) | 166 (54) |
| 13 | 2.0 (2.6) | 0.6 (0.8) | | | 51.9 (18.0) | 16.5 (5.7) | 571 (199) | 189 (66) |
| 14 | -0.3 (1.2) | -0.1 (0.4) | | | 42.6 (14.2) | 13.5 (4.5) | 469 (157) | 155 (52) |
| 15 | 0.4 (1.0) | 0.1 (0.3) | | | 46.6 (16.8) | 14.8 (5.3) | 513 (185) | 169 (61) |
| 16 | 2.3 (8.8) | 0.7 (2.8) | | | 40.6 (11.9) | 12.9 (3.8) | 447 (131) | 147 (43) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 2.2 (6.0) | 0.7 (1.9) | | | | | | |
| 20 | 3.0 (5.2) | 1.0 (1.7) | | | 54.0 (22.2) | 17.1 (7.0) | 595 (245) | 196 (81) |
| 21 | 1.8 (8.3) | 0.6 (2.6) | | | 50.4 (16.0) | 16.0 (5.1) | 556 (177) | 184 (58) |
| 22 | | | | | | | | |
| 23 | -3.5 (15.2) | -1.1 (4.8) | | | 52.3 (20.5) | 16.6 (6.5) | 577 (227) | 191 (75) |
| 24 | -11.2 (18.6) | -3.6 (5.9) | | | | | | |
| 25 | -4.9 (11.6) | -1.6 (3.7) | | | | | | |
| 26 | -13.8 (28.9) | -4.4 (9.2) | | | | | | |
| 27 | 1.8 (46.8) | 0.6 (14.8) | | | 68.4 (29.1) | 21.7 (9.3) | 756 (322) | 249 (106) |
| 28 | 0.1 (7.5) | 0.0 (2.4) | 1 (77) | 0 (29) | 57.1 (24.0) | 18.1 (7.6) | 631 (265) | 208 (87) |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 10.8 | 3.4 | 366 | 109 | 46.0 | 14.6 | 506 | 167 |
| n | 24 | 24 | 6 | 6 | 19 | 19 | 19 | 19 |
| SD | 19.8 | 6.3 | 242 | 72 | 11.7 | 3.7 | 130 | 43 |
| Min | -13.8 | -4.4 | 1 | 0 | 8.2 | 2.6 | 90 | 30 |
| Max | 66.8 | 21.2 | 699 | 208 | 68.4 | 21.7 | 756 | 249 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for May,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | 16.6 (57.2) | 5.3 (18.1) | 169 (583) | 64 (221) | 40.7 (25.6) | 12.9 (8.1) | 451 (284) | 149 (94) |
| 7 | 28.2 (31.3) | 9.0 (9.9) | 288 (319) | 109 (121) | | | | |
| 8 | 48.1 (16.0) | 15.3 (5.1) | 491 (163) | 186 (62) | 50.5 (13.0) | 16.0 (4.1) | 560 (144) | 185 (48) |
| 9 | 47.1 (12.6) | 14.9 (4.0) | 481 (128) | 182 (49) | | | | |
| 10 | 28.1 (23.5) | 8.9 (7.5) | 287 (240) | 109 (91) | 41.0 (14.0) | 13.0 (4.4) | 455 (155) | 150 (51) |
| 11 | 8.2 (31.4) | 2.6 (10.0) | 83 (320) | 32 (121) | 33.3 (20.9) | 10.6 (6.6) | 369 (232) | 122 (77) |
| 12 | 24.1 (8.6) | 7.7 (2.7) | 246 (88) | 93 (33) | 40.7 (10.9) | 12.9 (3.5) | 452 (121) | 149 (40) |
| 13 | 22.8 (11.1) | 7.2 (3.5) | 233 (114) | 88 (43) | 39.2 (13.6) | 12.5 (4.3) | 436 (152) | 144 (50) |
| 14 | 12.0 (15.3) | 3.8 (4.8) | 123 (156) | 47 (59) | 35.4 (10.7) | 11.2 (3.4) | 393 (119) | 130 (39) |
| 15 | 35.4 (9.4) | 11.2 (3.0) | 362 (96) | 137 (37) | | | | |
| 16 | 36.9 (14.5) | 11.7 (4.6) | 377 (148) | 143 (56) | 45.7 (13.8) | 14.5 (4.4) | 508 (153) | 168 (51) |
| 17 | 20.2 (15.6) | 6.4 (4.9) | 207 (159) | 78 (60) | 42.2 (13.3) | 13.4 (4.2) | 469 (148) | 155 (49) |
| 18 | 20.6 (13.0) | 6.5 (4.1) | 210 (133) | 80 (50) | 41.2 (10.7) | 13.1 (3.4) | 458 (119) | 151 (39) |
| 19 | 27.5 (15.6) | 8.7 (5.0) | 281 (160) | 103 (58) | 44.7 (15.2) | 14.2 (4.8) | 498 (169) | 160 (54) |
| 20 | 25.5 (15.0) | 8.1 (4.8) | 261 (154) | 93 (54) | 50.4 (19.5) | 16.0 (6.2) | 561 (218) | 177 (69) |
| 21 | 36.7 (12.7) | 11.7 (4.1) | 376 (130) | 133 (46) | 54.9 (21.0) | 17.4 (6.7) | 611 (233) | 192 (74) |
| 22 | 52.3 (21.8) | 16.6 (6.9) | 535 (223) | 190 (79) | 44.2 (16.1) | 14.0 (5.1) | 493 (180) | 155 (57) |
| 23 | 42.3 (17.0) | 13.4 (5.4) | 433 (174) | 153 (62) | 40.8 (18.2) | 12.9 (5.8) | 454 (203) | 143 (64) |
| 24 | 40.3 (26.0) | 12.8 (8.3) | 412 (267) | 146 (95) | 45.1 (14.9) | 14.3 (4.7) | 503 (166) | 158 (52) |
| 25 | 71.2 (25.3) | 22.6 (8.0) | 729 (259) | 258 (92) | | | | |
| 26 | 79.6 (30.1) | 25.3 (9.6) | 815 (308) | 289 (109) | | | | |
| 27 | 98.9 (17.8) | 31.4 (5.7) | 1010 (182) | 359 (65) | | | | |
| 28 | 104.0 (29.5) | 33.1 (9.4) | 1070 (302) | 378 (107) | 57.8 (24.2) | 18.3 (7.7) | 645 (270) | 203 (85) |
| 29 | 49.6 (78.1) | 15.7 (24.8) | 508 (799) | 180 (283) | 37.3 (29.5) | 11.8 (9.4) | 416 (329) | 131 (104) |
| 30 | 67.5 (45.0) | 21.4 (14.3) | 691 (460) | 241 (160) | | | | |
| 31 | 140.0 (20.1) | 44.5 (6.4) | 1430 (206) | 495 (71) | | | | |
| Mean | 45.5 | 14.5 | 466 | 168 | 43.6 | 13.8 | 485 | 157 |
| n | 26 | 26 | 26 | 26 | 18 | 18 | 18 | 18 |
| SD | 30.9 | 9.8 | 316 | 109 | 6.3 | 2.0 | 70 | 21 |
| Min | 8.2 | 2.6 | 83 | 32 | 33.3 | 10.6 | 369 | 122 |
| Max | 140.0 | 44.5 | 1430 | 495 | 57.8 | 18.3 | 645 | 203 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for June,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 110.0 (41.2) | 35.0 (13.1) | 1130 (422) | 390 (146) | 62.9 (25.0) | 20.0 (7.9) | 702 (279) | 221 (88) |
| 2 | 126.0 (143.0) | 40.0 (45.3) | 1290 (1460) | 446 (505) | 71.6 (25.0) | 22.7 (7.9) | 799 (279) | 253 (88) |
| 3 | 84.3 (30.6) | 26.8 (9.7) | 864 (313) | 298 (108) | 54.6 (15.2) | 17.3 (4.8) | | |
| 4 | 109.0 (15.2) | 34.5 (4.8) | 1110 (156) | 387 (55) | 30.7 (9.7) | 9.7 (3.1) | | |
| 5 | 103.0 (25.3) | 32.8 (8.0) | 1060 (260) | 371 (91) | 36.1 (31.9) | 11.5 (10.1) | | |
| 6 | 52.3 (166.0) | 16.6 (52.7) | 536 (1700) | 188 (595) | 2.0 (111.0) | 0.6 (35.3) | | |
| 7 | 34.1 (81.2) | 10.8 (25.8) | 349 (832) | 122 (291) | -27.4 (86.9) | -8.7 (27.6) | | |
| 8 | 82.2 (49.2) | 26.1 (15.6) | 842 (504) | 295 (176) | 51.6 (110.0) | 16.4 (35.1) | | |
| 9 | 114.0 (78.9) | 36.3 (25.1) | 1170 (809) | 410 (283) | 151.0 (223.0) | 48.0 (70.7) | | |
| 10 | 82.3 (87.8) | 26.1 (27.9) | 844 (899) | 295 (315) | 12.1 (62.3) | 3.8 (19.8) | | |
| 11 | 141.0 (81.9) | 44.6 (26.0) | 1440 (839) | 512 (297) | -16.6 (157.0) | -5.3 (49.8) | | |
| 12 | 87.6 (55.9) | 27.8 (17.7) | 898 (573) | 325 (208) | 38.9 (60.3) | 12.3 (19.1) | | |
| 13 | 149.0 (200.0) | 47.2 (63.3) | 1520 (2040) | 552 (741) | 169.0 (322.0) | 53.7 (102.0) | | |
| 14 | 178.0 (171.0) | 56.6 (54.2) | 1830 (1750) | 663 (635) | 195.0 (312.0) | 62.0 (99.1) | | |
| 15 | 77.2 (20.7) | 24.5 (6.6) | 791 (212) | 287 (77) | 25.3 (12.7) | 8.0 (4.0) | | |
| 16 | 87.6 (71.4) | 27.8 (22.7) | 898 (731) | 325 (265) | 73.7 (144.0) | 23.4 (45.8) | | |
| 17 | 67.9 (31.7) | 21.6 (10.1) | 696 (325) | 252 (118) | 33.3 (45.3) | 10.6 (14.4) | | |
| 18 | | | | | 48.1 (71.0) | 15.3 (22.5) | | |
| 19 | | | | | -62.5 (102.0) | -19.8 (32.5) | | |
| 20 | 17.2 (61.8) | 5.5 (19.6) | 177 (634) | 62 (222) | 8.8 (45.3) | 2.8 (14.4) | | |
| 21 | 80.6 (72.5) | 25.6 (23.0) | 827 (743) | 289 (260) | 57.3 (64.6) | 18.2 (20.5) | | |
| 22 | 67.9 (14.5) | 21.6 (4.6) | 696 (148) | 244 (52) | 48.3 (18.3) | 15.3 (5.8) | | |
| 23 | 67.7 (12.8) | 21.5 (4.1) | 694 (132) | 242 (46) | 43.7 (14.8) | 13.9 (4.7) | 450 (152) | 184 (62) |
| 24 | | | | | | | | |
| 25 | 59.3 (67.7) | 18.8 (21.5) | 608 (694) | 211 (241) | 36.2 (80.4) | 11.5 (25.5) | 372 (825) | 154 (341) |
| 26 | 53.1 (11.2) | 16.9 (3.6) | 545 (115) | 189 (40) | 24.1 (11.6) | 7.7 (3.7) | 247 (119) | 102 (49) |
| 27 | 48.8 (13.1) | 15.5 (4.2) | 500 (135) | 173 (47) | 28.2 (18.0) | 9.0 (5.7) | 290 (185) | 120 (76) |
| 28 | 70.9 (16.4) | 22.5 (5.2) | 727 (169) | 252 (58) | 41.7 (17.1) | 13.2 (5.4) | 428 (176) | 177 (73) |
| 29 | 37.9 (79.6) | 12.0 (25.3) | 389 (816) | 135 (283) | 13.2 (64.8) | 4.2 (20.6) | 136 (666) | 56 (275) |
| 30 | 33.7 (60.1) | 10.7 (19.1) | 345 (616) | 120 (214) | 7.1 (49.7) | 2.3 (15.8) | 73 (510) | 27 (208) |
| Mean | 82.3 | 26.1 | 844 | 298 | 43.4 | 13.8 | 389 | 144 |
| n | 27 | 27 | 27 | 27 | 29 | 29 | 9 | 9 |
| SD | 37.0 | 11.8 | 379 | 137 | 52.6 | 16.7 | 227 | 70 |
| Min | 17.2 | 5.5 | 177 | 62 | -62.5 | -19.8 | 73 | 27 |
| Max | 178.0 | 56.6 | 1830 | 663 | 195.0 | 62.0 | 799 | 253 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for July,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 47.1 (14.1) | 14.9 (4.5) | 483 (145) | 168 (50) | 23.6 (36.1) | 7.5 (11.5) | 243 (371) | 94 (144) |
| 2 | 41.7 (35.2) | 13.2 (11.2) | 427 (361) | 149 (126) | 41.0 (70.2) | 13.0 (22.3) | 423 (723) | 164 (281) |
| 3 | 57.7 (38.1) | 18.3 (12.1) | 591 (391) | 206 (137) | 31.4 (26.4) | 10.0 (8.4) | 323 (272) | 126 (106) |
| 4 | 55.0 (25.2) | 17.5 (8.0) | 565 (259) | 197 (90) | 28.4 (22.0) | 9.0 (7.0) | 292 (226) | 113 (88) |
| 5 | 36.0 (170.0) | 11.4 (53.9) | 370 (1740) | 129 (607) | -2.2 (130.0) | -0.7 (41.2) | -22 (1340) | -9 (519) |
| 6 | 87.8 (19.5) | 27.9 (6.2) | 901 (201) | 312 (70) | 57.7 (21.9) | 18.3 (7.0) | 594 (226) | 225 (86) |
| 7 | 91.3 (18.9) | 29.0 (6.0) | 937 (194) | 321 (66) | 75.7 (17.2) | 24.0 (5.5) | 780 (177) | 289 (66) |
| 8 | 77.5 (14.0) | 24.6 (4.4) | 795 (144) | 272 (49) | 75.0 (18.2) | 23.8 (5.8) | 773 (188) | 287 (70) |
| 9 | 77.3 (18.3) | 24.6 (5.8) | 794 (188) | 272 (64) | 74.6 (23.3) | 23.7 (7.4) | 769 (241) | 285 (89) |
| 10 | 93.8 (37.7) | 29.8 (12.0) | 963 (386) | 330 (132) | 95.3 (41.4) | 30.3 (13.1) | 982 (426) | 365 (158) |
| 11 | 128.0 (53.3) | 40.6 (16.9) | 1310 (547) | 449 (187) | 119.0 (64.9) | 37.8 (20.6) | 1230 (669) | 455 (248) |
| 12 | 100.0 (44.9) | 31.8 (14.3) | 1030 (461) | 352 (158) | 123.0 (100.0) | 39.2 (31.8) | 1270 (1030) | 472 (384) |
| 13 | 145.0 (142.0) | 46.2 (45.2) | 1490 (1460) | 511 (500) | 151.0 (186.0) | 48.0 (59.1) | 1560 (1920) | 579 (713) |
| 14 | 118.0 (45.3) | 37.5 (14.4) | 1210 (465) | 415 (159) | 108.0 (48.3) | 34.3 (15.3) | 1110 (498) | 413 (185) |
| 15 | 136.0 (41.8) | 43.3 (13.3) | 1400 (429) | 479 (147) | 129.0 (47.4) | 41.0 (15.1) | 1330 (489) | 494 (181) |
| 16 | 94.5 (58.8) | 30.0 (18.7) | 970 (603) | 332 (207) | 98.2 (116.0) | 31.2 (36.7) | 1010 (1190) | 376 (442) |
| 17 | 144.0 (135.0) | 45.6 (43.0) | 1480 (1390) | 505 (475) | 141.0 (154.0) | 44.6 (48.9) | 1450 (1590) | 538 (589) |
| 18 | 125.0 (65.4) | 39.8 (20.8) | 1290 (671) | 440 (230) | 119.0 (80.6) | 37.7 (25.6) | 1220 (831) | 455 (308) |
| 19 | 136.0 (98.4) | 43.3 (31.3) | 1400 (1010) | 479 (346) | 130.0 (106.0) | 41.4 (33.6) | 1350 (1090) | 495 (405) |
| 20 | | | | | 16.1 (149.0) | 5.1 (47.3) | 166 (1540) | 60 (555) |
| 21 | | | | | 115.0 (76.6) | 36.6 (24.3) | 1190 (790) | 430 (286) |
| 22 | -89.7 (299.0) | -28.5 (94.9) | -921 (3070) | -315 (1050) | -56.0 (324.0) | -17.8 (103.0) | -578 (3350) | -209 (1210) |
| 23 | 30.2 (272.0) | 9.6 (86.5) | 310 (2800) | 106 (957) | 16.7 (265.0) | 5.3 (84.1) | 173 (2730) | 62 (987) |
| 24 | 105.0 (26.4) | 33.5 (8.4) | 1080 (272) | 371 (93) | 85.5 (16.5) | 27.2 (5.3) | 882 (171) | 319 (62) |
| 25 | 113.0 (45.4) | 35.9 (14.4) | 1160 (466) | 397 (160) | 72.1 (39.8) | 22.9 (12.6) | 744 (410) | 269 (148) |
| 26 | 204.0 (166.0) | 64.7 (52.7) | 2090 (1700) | 716 (583) | 232.0 (287.0) | 73.5 (91.2) | 2390 (2960) | 863 (1070) |
| 27 | 122.0 (46.0) | 38.9 (14.6) | 1260 (473) | 430 (162) | 114.0 (63.1) | 36.0 (20.0) | 1170 (651) | 423 (235) |
| 28 | 116.0 (125.0) | 37.0 (39.7) | 1200 (1280) | 409 (440) | 96.6 (99.5) | 30.7 (31.6) | 996 (1030) | 356 (366) |
| 29 | 126.0 (37.3) | 40.0 (11.8) | 1290 (383) | 442 (131) | 122.0 (47.8) | 38.8 (15.2) | 1260 (494) | 447 (175) |
| 30 | 111.0 (26.4) | 35.3 (8.4) | 1140 (272) | 391 (93) | 113.0 (95.0) | 36.0 (30.2) | 1170 (981) | 415 (348) |
| 31 | 114.0 (32.1) | 36.3 (10.2) | 1180 (330) | 402 (113) | 80.5 (27.9) | 25.6 (8.9) | 831 (288) | 294 (102) |
| Mean | 94.7 | 30.1 | 972 | 333 | 84.7 | 26.9 | 874 | 321 |
| n | 29 | 29 | 29 | 29 | 31 | 31 | 31 | 31 |
| SD | 51.4 | 16.3 | 528 | 180 | 54.3 | 17.2 | 560 | 204 |
| Min | -89.7 | -28.5 | -921 | -315 | -56.0 | -17.8 | -578 | -209 |
| Max | 204.0 | 64.7 | 2090 | 716 | 232.0 | 73.5 | 2390 | 863 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for August,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 132.0 (36.4) | 42.0 (11.6) | 1360 (374) | 465 (128) | 119.0 (60.9) | 37.8 (19.3) | 1230 (628) | 436 (223) |
| 2 | 108.0 (29.9) | 34.1 (9.5) | 1100 (307) | 375 (105) | 88.6 (23.9) | 28.1 (7.6) | 914 (246) | 324 (87) |
| 3 | 80.3 (79.7) | 25.5 (25.3) | 824 (818) | 278 (276) | 68.2 (60.9) | 21.7 (19.3) | 704 (629) | 250 (223) |
| 4 | 104.0 (83.7) | 33.1 (26.6) | 1070 (860) | 362 (291) | 147.0 (107.0) | 46.7 (34.1) | 1520 (1110) | 538 (393) |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | 53.4 (49.9) | 16.9 (15.8) | 548 (512) | 186 (174) | 51.3 (29.6) | 16.3 (9.4) | 530 (306) | 191 (110) |
| 9 | 125.0 (134.0) | 39.6 (42.5) | 1280 (1380) | 434 (466) | 100.0 (146.0) | 31.7 (46.5) | 1030 (1510) | 370 (541) |
| 10 | 169.0 (177.0) | 53.7 (56.1) | 1740 (1810) | 589 (615) | 117.0 (56.0) | 37.0 (17.8) | 1200 (578) | 431 (207) |
| 11 | 109.0 (54.1) | 34.7 (17.2) | 1120 (555) | 381 (188) | 102.0 (50.8) | 32.5 (16.1) | 1060 (525) | 379 (188) |
| 12 | | | | | | | | |
| 13 | 144.0 (102.0) | 45.9 (32.4) | 1480 (1050) | 503 (356) | 130.0 (93.2) | 41.3 (29.6) | 1340 (962) | 474 (340) |
| 14 | 129.0 (31.4) | 41.0 (10.0) | 1330 (323) | 450 (110) | 150.0 (110.0) | 47.7 (35.0) | 1550 (1140) | 548 (403) |
| 15 | 138.0 (75.3) | 43.8 (23.9) | 1420 (774) | 481 (263) | 180.0 (134.0) | 57.2 (42.5) | 1860 (1380) | 657 (489) |
| 16 | 122.0 (72.9) | 38.7 (23.1) | 1250 (749) | 425 (254) | 187.0 (148.0) | 59.2 (47.0) | 1930 (1530) | 681 (540) |
| 17 | 131.0 (66.7) | 41.7 (21.2) | 1350 (685) | 458 (232) | 155.0 (74.8) | 49.1 (23.7) | 1600 (772) | 564 (273) |
| 18 | 83.3 (39.4) | 26.4 (12.5) | 856 (405) | 290 (137) | 114.0 (81.5) | 36.1 (25.9) | 1180 (842) | 412 (298) |
| 19 | 165.0 (117.0) | 52.3 (37.3) | 1690 (1210) | 574 (409) | 298.0 (244.0) | 94.7 (77.6) | 3080 (2520) | 1060 (872) |
| 20 | 85.1 (58.2) | 27.0 (18.5) | 874 (598) | 296 (203) | 120.0 (89.0) | 38.2 (28.2) | 1240 (919) | 430 (318) |
| 21 | -3.9 (105.0) | -1.3 (33.2) | -41 (1070) | -14 (364) | 37.9 (123.0) | 12.0 (39.2) | 391 (1270) | 135 (440) |
| 22 | 44.1 (112.0) | 14.0 (35.4) | 453 (1150) | 154 (389) | 58.9 (118.0) | 18.7 (37.4) | 608 (1220) | 210 (421) |
| 23 | 59.1 (53.9) | 18.8 (17.1) | 607 (554) | 206 (188) | 63.4 (27.8) | 20.1 (8.8) | 655 (287) | 226 (99) |
| 24 | 73.9 (64.8) | 23.5 (20.6) | 760 (665) | 258 (226) | 81.9 (42.0) | 26.0 (13.3) | 846 (434) | 292 (150) |
| 25 | 72.9 (24.7) | 23.1 (7.9) | 749 (254) | 253 (86) | 91.1 (26.8) | 28.9 (8.5) | 941 (277) | 326 (96) |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | 65.2 (30.7) | 20.7 (9.7) | 670 (315) | 225 (106) | 90.0 (35.6) | 28.6 (11.3) | 930 (367) | 323 (128) |
| 31 | 84.2 (32.0) | 26.7 (10.2) | 866 (329) | 291 (111) | 106.0 (43.2) | 33.6 (13.7) | 1090 (446) | 380 (155) |
| Mean | 98.9 | 31.4 | 1020 | 344 | 115.0 | 36.7 | 1190 | 419 |
| n | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| SD | 40.7 | 12.9 | 418 | 142 | 54.6 | 17.3 | 564 | 197 |
| Min | -3.9 | -1.3 | -41 | -14 | 37.9 | 12.0 | 391 | 135 |
| Max | 169.0 | 53.7 | 1740 | 589 | 298.0 | 94.7 | 3080 | 1060 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for September,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 56.2 (45.9) | 17.9 (14.6) | 578 (472) | 194 (159) | 124.0 (82.2) | 39.3 (26.1) | 1280 (849) | 444 (295) |
| 2 | 59.7 (19.5) | 19.0 (6.2) | 614 (200) | 206 (67) | 99.8 (40.9) | 31.7 (13.0) | 1030 (423) | 357 (147) |
| 3 | 128.0 (126.0) | 40.8 (40.0) | 1320 (1300) | 444 (435) | 167.0 (183.0) | 53.1 (58.0) | 1730 (1890) | 596 (651) |
| 4 | | | | | | | | |
| 5 | 87.9 (125.0) | 27.9 (39.8) | 904 (1290) | 304 (433) | 159.0 (182.0) | 50.5 (57.7) | 1640 (1880) | 566 (647) |
| 6 | 124.0 (29.9) | 39.4 (9.5) | 1280 (308) | 429 (103) | 173.0 (82.1) | 55.0 (26.1) | 1790 (848) | 617 (292) |
| 7 | -5.9 (126.0) | -1.9 (40.0) | -61 (1300) | -20 (436) | 5.0 (117.0) | 1.6 (37.3) | 52 (1210) | 18 (418) |
| 8 | 76.8 (115.0) | 24.4 (36.5) | 790 (1180) | 265 (398) | 70.7 (54.3) | 22.4 (17.2) | 731 (561) | 252 (193) |
| 9 | 92.0 (11.6) | 29.2 (3.7) | 947 (119) | 318 (40) | 117.0 (45.2) | 37.0 (14.3) | 1210 (467) | 415 (161) |
| 10 | 75.0 (53.5) | 23.8 (17.0) | 772 (551) | 258 (185) | 93.3 (50.2) | 29.6 (15.9) | 965 (519) | 330 (179) |
| 11 | 42.5 (83.1) | 13.5 (26.4) | 438 (855) | 145 (284) | 48.1 (53.6) | 15.3 (17.0) | 497 (554) | 169 (188) |
| 12 | 125.0 (42.0) | 39.8 (13.3) | 1290 (432) | 428 (143) | 130.0 (50.7) | 41.1 (16.1) | 1340 (525) | 455 (178) |
| 13 | 76.0 (25.6) | 24.1 (8.1) | 782 (263) | 260 (88) | 82.3 (26.3) | 26.1 (8.3) | 851 (272) | 289 (92) |
| 14 | 65.5 (13.6) | 20.8 (4.3) | 674 (140) | 224 (46) | 77.3 (15.5) | 24.6 (4.9) | 800 (160) | 271 (54) |
| 15 | 58.5 (12.8) | 18.6 (4.1) | 602 (132) | 200 (44) | 77.8 (13.3) | 24.7 (4.2) | 805 (138) | 273 (47) |
| 16 | | | | | 61.1 (31.5) | 19.4 (10.0) | 632 (326) | 214 (111) |
| 17 | 53.8 (22.4) | 17.1 (7.1) | 554 (230) | 184 (76) | 82.5 (56.4) | 26.2 (17.9) | 853 (584) | 289 (198) |
| 18 | 63.6 (30.6) | 20.2 (9.7) | 655 (315) | 217 (104) | 93.2 (51.8) | 29.6 (16.5) | 964 (536) | 327 (182) |
| 19 | 44.7 (16.2) | 14.2 (5.1) | 460 (167) | 153 (55) | 60.6 (25.4) | 19.2 (8.1) | 627 (263) | 213 (89) |
| 20 | 44.2 (12.2) | 14.0 (3.9) | 455 (125) | 151 (42) | 56.4 (16.8) | 17.9 (5.3) | 584 (174) | 198 (59) |
| 21 | 64.6 (25.8) | 20.5 (8.2) | 665 (265) | 221 (88) | 74.8 (21.8) | 23.7 (6.9) | 774 (226) | 262 (77) |
| 22 | 72.8 (51.2) | 23.1 (16.3) | 749 (527) | 249 (175) | 113.0 (123.0) | 35.9 (38.9) | 1170 (1270) | 396 (431) |
| 23 | 47.5 (19.7) | 15.1 (6.2) | 489 (202) | 162 (67) | 57.4 (21.6) | 18.2 (6.9) | 594 (224) | 201 (76) |
| 24 | 48.0 (16.6) | 15.2 (5.3) | 494 (171) | 164 (57) | 54.3 (18.8) | 17.2 (6.0) | 562 (194) | 190 (66) |
| 25 | 44.7 (16.0) | 14.2 (5.1) | 460 (164) | 152 (54) | 50.4 (13.0) | 16.0 (4.1) | 522 (134) | 176 (45) |
| 26 | 128.0 (65.1) | 40.6 (20.7) | 1320 (671) | 436 (222) | 154.0 (92.4) | 49.0 (29.3) | 1600 (956) | 540 (323) |
| 27 | 116.0 (41.5) | 36.8 (13.2) | 1190 (428) | 396 (142) | 150.0 (73.0) | 47.7 (23.2) | 1550 (755) | 525 (255) |
| 28 | 95.3 (18.6) | 30.3 (5.9) | 981 (192) | 325 (64) | 100.0 (16.5) | 31.8 (5.2) | 1040 (171) | 351 (58) |
| 29 | 70.7 (41.0) | 22.5 (13.0) | 728 (422) | 241 (140) | 73.3 (41.3) | 23.3 (13.1) | 759 (427) | 257 (145) |
| 30 | 64.1 (23.8) | 20.3 (7.6) | 660 (246) | 218 (81) | 73.2 (31.9) | 23.2 (10.1) | 758 (330) | 256 (112) |
| Mean | 72.1 | 22.9 | 742 | 247 | 92.4 | 29.3 | 955 | 326 |
| n | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 |
| SD | 30.8 | 9.8 | 317 | 106 | 40.1 | 12.7 | 415 | 143 |
| Min | -5.9 | -1.9 | -61 | -20 | 5.0 | 1.6 | 52 | 18 |
| Max | 128.0 | 40.8 | 1320 | 444 | 173.0 | 55.0 | 1790 | 617 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for October,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 52.6 (18.2) | 16.7 (5.8) | 541 (187) | 179 (62) | 58.2 (21.9) | 18.5 (7.0) | 603 (227) | 204 (77) |
| 2 | | | | | 34.7 (22.4) | 11.0 (7.1) | 359 (231) | 121 (78) |
| 3 | 39.7 (18.2) | 12.6 (5.8) | 409 (188) | 135 (62) | 49.0 (23.5) | 15.5 (7.5) | 507 (243) | 171 (82) |
| 4 | 27.3 (33.1) | 8.7 (10.5) | 281 (341) | 93 (113) | 36.5 (30.7) | 11.6 (9.7) | 378 (317) | 128 (108) |
| 5 | -0.9 (50.6) | -0.3 (16.1) | -10 (521) | -3 (172) | 8.3 (46.5) | 2.7 (14.8) | 86 (481) | 30 (164) |
| 6 | 58.0 (20.8) | 18.4 (6.6) | 598 (214) | 198 (71) | 68.3 (24.7) | 21.7 (7.9) | 707 (256) | 241 (87) |
| 7 | 50.1 (20.9) | 15.9 (6.6) | 516 (215) | 171 (71) | 59.3 (26.0) | 18.8 (8.2) | 613 (269) | 209 (92) |
| 8 | 57.7 (23.8) | 18.3 (7.6) | 595 (246) | 197 (81) | 61.3 (23.9) | 19.5 (7.6) | 635 (248) | 216 (85) |
| 9 | 47.1 (37.3) | 14.9 (11.9) | 485 (385) | 161 (127) | 52.4 (29.7) | 16.6 (9.4) | 542 (307) | 185 (105) |
| 10 | 37.8 (16.1) | 12.0 (5.1) | 390 (166) | 129 (55) | 48.0 (24.6) | 15.2 (7.8) | 497 (255) | 169 (87) |
| 11 | 56.6 (17.9) | 18.0 (5.7) | 583 (184) | 193 (61) | 68.3 (22.9) | 21.7 (7.3) | 707 (237) | 241 (81) |
| 12 | 49.7 (20.4) | 15.8 (6.5) | 512 (211) | 169 (70) | 56.9 (20.2) | 18.1 (6.4) | 589 (210) | 200 (71) |
| 13 | 48.3 (20.2) | 15.3 (6.4) | 498 (208) | 165 (69) | 55.8 (23.5) | 17.7 (7.5) | 578 (244) | 197 (83) |
| 14 | 48.1 (20.8) | 15.3 (6.6) | 495 (214) | 164 (71) | 60.5 (23.7) | 19.2 (7.5) | 627 (245) | 213 (84) |
| 15 | 26.0 (34.5) | 8.3 (10.9) | 268 (355) | 89 (118) | 42.9 (30.4) | 13.6 (9.6) | 445 (314) | 151 (107) |
| 16 | 51.1 (23.7) | 16.2 (7.5) | 526 (244) | 174 (81) | 66.3 (26.0) | 21.1 (8.3) | 687 (269) | 234 (92) |
| 17 | 50.1 (25.0) | 15.9 (7.9) | 517 (258) | 171 (85) | 50.1 (21.2) | 15.9 (6.7) | 519 (219) | 176 (75) |
| 18 | 48.5 (24.6) | 15.4 (7.8) | 500 (254) | 166 (84) | 48.6 (24.1) | 15.4 (7.7) | 503 (250) | 171 (85) |
| 19 | 44.0 (22.3) | 14.0 (7.1) | 453 (230) | 150 (76) | 42.9 (19.8) | 13.6 (6.3) | 444 (205) | 151 (70) |
| 20 | 42.1 (18.4) | 13.4 (5.8) | 434 (189) | 144 (63) | 46.2 (21.2) | 14.7 (6.7) | 479 (220) | 163 (75) |
| 21 | 46.9 (22.1) | 14.9 (7.0) | 483 (228) | 160 (75) | 55.3 (22.2) | 17.6 (7.1) | 573 (230) | 195 (78) |
| 22 | 44.9 (20.7) | 14.3 (6.6) | 463 (213) | 154 (71) | 46.4 (20.0) | 14.7 (6.4) | 481 (207) | 165 (71) |
| 23 | 46.4 (21.2) | 14.7 (6.7) | 478 (218) | 160 (73) | 47.6 (21.3) | 15.1 (6.8) | 493 (221) | 171 (77) |
| 24 | 57.3 (25.6) | 18.2 (8.1) | 591 (264) | 197 (88) | 58.8 (28.2) | 18.7 (8.9) | 610 (292) | 212 (101) |
| 25 | 59.2 (17.4) | 18.8 (5.5) | 611 (179) | 204 (60) | 69.9 (22.7) | 22.2 (7.2) | 724 (235) | 252 (82) |
| 26 | 46.6 (22.0) | 14.8 (7.0) | 481 (226) | 161 (76) | 49.4 (22.0) | 15.7 (7.0) | 512 (228) | 178 (79) |
| 27 | 39.8 (18.5) | 12.6 (5.9) | 411 (191) | 137 (64) | 43.0 (17.9) | 13.7 (5.7) | 446 (185) | 155 (64) |
| 28 | 41.5 (20.3) | 13.2 (6.5) | 428 (210) | 143 (70) | 42.4 (19.1) | 13.5 (6.1) | 439 (198) | 153 (69) |
| 29 | 43.2 (20.2) | 13.7 (6.4) | 446 (208) | 149 (70) | 45.0 (20.9) | 14.3 (6.6) | 466 (216) | 162 (75) |
| 30 | 42.7 (21.1) | 13.6 (6.7) | 440 (218) | 147 (73) | 43.7 (19.6) | 13.9 (6.2) | 453 (203) | 158 (71) |
| 31 | 45.3 (19.6) | 14.4 (6.2) | 468 (202) | 156 (68) | 49.5 (21.6) | 15.7 (6.8) | 513 (223) | 178 (78) |
| Mean | 44.9 | 14.3 | 463 | 154 | 50.5 | 16.0 | 523 | 179 |
| n | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 31 |
| SD | 11.5 | 3.6 | 118 | 39 | 11.9 | 3.8 | 123 | 42 |
| Min | -0.9 | -0.3 | -10 | -3 | 8.3 | 2.7 | 86 | 30 |
| Max | 59.2 | 18.8 | 611 | 204 | 69.9 | 22.2 | 724 | 252 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for November,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 51.0 (23.0) | 16.2 (7.3) | 526 (238) | 176 (79) | 52.0 (22.3) | 16.5 (7.1) | 539 (231) | 187 (80) |
| 2 | 47.3 (20.6) | 15.0 (6.6) | 488 (213) | 163 (71) | 43.4 (18.4) | 13.8 (5.8) | 450 (190) | 156 (66) |
| 3 | 51.2 (20.6) | 16.3 (6.6) | 529 (213) | 177 (71) | 58.3 (24.0) | 18.5 (7.6) | 605 (249) | 210 (87) |
| 4 | 47.3 (14.1) | 15.0 (4.5) | 488 (146) | 163 (49) | 60.7 (28.2) | 19.3 (8.9) | 630 (292) | 219 (101) |
| 5 | 44.4 (10.9) | 14.1 (3.5) | 458 (112) | 153 (37) | 58.9 (21.1) | 18.7 (6.7) | 611 (219) | 212 (76) |
| 6 | 39.5 (17.0) | 12.5 (5.4) | 407 (176) | 136 (59) | 55.5 (21.3) | 17.6 (6.8) | 575 (221) | 200 (77) |
| 7 | 44.8 (18.6) | 14.2 (5.9) | 462 (192) | 154 (64) | 58.1 (24.3) | 18.4 (7.7) | 602 (252) | 209 (88) |
| 8 | 50.8 (16.5) | 16.1 (5.3) | 524 (171) | 175 (57) | 56.1 (21.9) | 17.8 (7.0) | 582 (227) | 202 (79) |
| 9 | 45.3 (19.2) | 14.4 (6.1) | 467 (198) | 156 (66) | 50.1 (21.3) | 15.9 (6.8) | 519 (221) | 180 (77) |
| 10 | 37.7 (16.9) | 12.0 (5.4) | 389 (174) | 130 (58) | 41.2 (18.1) | 13.1 (5.7) | 434 (190) | 150 (66) |
| 11 | 34.4 (16.8) | 10.9 (5.3) | 355 (174) | 119 (58) | 39.5 (19.0) | 12.6 (6.0) | 417 (200) | 144 (69) |
| 12 | 41.8 (18.1) | 13.3 (5.8) | 432 (187) | 144 (62) | 41.0 (15.4) | 13.0 (4.9) | 425 (160) | 147 (55) |
| 13 | 38.0 (16.1) | 12.0 (5.1) | 392 (166) | 131 (56) | 37.8 (16.0) | 12.0 (5.1) | 392 (166) | 136 (58) |
| 14 | | | | | | | | |
| 15 | 58.2 (17.7) | 18.5 (5.6) | 601 (182) | 201 (61) | 60.8 (22.0) | 19.3 (7.0) | 630 (229) | 218 (79) |
| 16 | 41.3 (18.9) | 13.1 (6.0) | 426 (195) | 142 (65) | 42.7 (16.9) | 13.5 (5.4) | 443 (176) | 153 (61) |
| 17 | 39.4 (18.1) | 12.5 (5.7) | 407 (187) | 136 (62) | 41.7 (18.0) | 13.3 (5.7) | 433 (187) | 150 (65) |
| 18 | 38.7 (16.7) | 12.3 (5.3) | 404 (174) | 135 (58) | 39.6 (15.7) | 12.6 (5.0) | 411 (163) | 142 (57) |
| 19 | 36.5 (15.3) | 11.6 (4.9) | 381 (159) | 129 (54) | 39.6 (15.1) | 12.6 (4.8) | 411 (157) | 142 (55) |
| 20 | 43.0 (20.6) | 13.6 (6.5) | 444 (212) | 152 (73) | 46.1 (18.7) | 14.6 (6.0) | 478 (194) | 166 (67) |
| 21 | 36.4 (15.6) | 11.6 (5.0) | 376 (161) | 129 (55) | 43.4 (17.6) | 13.8 (5.6) | 450 (182) | 156 (63) |
| 22 | 32.9 (12.4) | 10.5 (3.9) | 340 (128) | 117 (44) | 38.8 (14.1) | 12.3 (4.5) | 402 (146) | 140 (51) |
| 23 | 37.2 (15.5) | 11.8 (4.9) | 384 (161) | 132 (55) | 44.3 (16.4) | 14.1 (5.2) | 460 (171) | 161 (60) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | 45.5 (27.7) | 14.4 (8.8) | 470 (287) | 161 (98) | 46.9 (26.1) | 14.9 (8.3) | 486 (271) | 170 (95) |
| 29 | 46.4 (21.5) | 14.7 (6.8) | 479 (222) | 165 (76) | 47.0 (17.1) | 14.9 (5.4) | 488 (178) | 171 (62) |
| 30 | 52.3 (18.1) | 16.6 (5.7) | 541 (187) | 186 (64) | 47.2 (14.4) | 15.0 (4.6) | 490 (150) | 172 (52) |
| Mean | 43.3 | 13.7 | 447 | 150 | 47.6 | 15.1 | 494 | 172 |
| n | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| SD | 6.2 | 2.0 | 64 | 21 | 7.5 | 2.4 | 78 | 27 |
| Min | 32.9 | 10.5 | 340 | 117 | 37.8 | 12.0 | 392 | 136 |
| Max | 58.2 | 18.5 | 601 | 201 | 60.8 | 19.3 | 630 | 219 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for December,2008**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 50.4 (23.9) | 16.0 (7.6) | 521 (247) | 179 (85) | 46.5 (14.9) | 14.8 (4.7) | 483 (155) | 169 (54) |
| 2 | 39.8 (15.8) | 12.6 (5.0) | 411 (163) | 141 (56) | 37.9 (14.2) | 12.0 (4.5) | 393 (147) | 138 (52) |
| 3 | 38.1 (15.6) | 12.1 (5.0) | 394 (162) | 135 (56) | 37.3 (13.1) | 11.8 (4.2) | 392 (138) | 137 (48) |
| 4 | 44.0 (20.7) | 14.0 (6.6) | 455 (214) | 156 (74) | 40.3 (18.7) | 12.8 (5.9) | 424 (195) | 148 (68) |
| 5 | 43.4 (18.1) | 13.8 (5.7) | 448 (187) | 154 (64) | 42.8 (13.8) | 13.6 (4.4) | 444 (143) | 155 (50) |
| 6 | 40.3 (18.8) | 12.8 (6.0) | 417 (194) | 143 (67) | 39.4 (14.7) | 12.5 (4.7) | 410 (153) | 143 (53) |
| 7 | 39.7 (16.2) | 12.6 (5.2) | 410 (168) | 141 (58) | 39.0 (14.6) | 12.4 (4.6) | 405 (152) | 142 (53) |
| 8 | 28.8 (10.3) | 9.1 (3.3) | 298 (107) | 102 (37) | 32.5 (13.2) | 10.3 (4.2) | 338 (137) | 118 (48) |
| 9 | 51.8 (23.0) | 16.4 (7.3) | 536 (238) | 184 (82) | 48.6 (23.9) | 15.4 (7.6) | 505 (248) | 177 (87) |
| 10 | 63.7 (14.6) | 20.2 (4.7) | 658 (151) | 226 (52) | 64.1 (21.7) | 20.3 (6.9) | 665 (225) | 233 (79) |
| 11 | 63.9 (18.2) | 20.3 (5.8) | 661 (188) | 227 (65) | 65.2 (23.5) | 20.7 (7.5) | 677 (244) | 237 (85) |
| 12 | 46.7 (21.1) | 14.8 (6.7) | 483 (218) | 166 (75) | 49.8 (18.6) | 15.8 (5.9) | 517 (193) | 181 (68) |
| 13 | 34.3 (12.6) | 10.9 (4.0) | 355 (130) | 122 (45) | 36.2 (12.9) | 11.5 (4.1) | 376 (134) | 132 (47) |
| 14 | 37.4 (15.1) | 11.9 (4.8) | 387 (157) | 133 (54) | 40.1 (14.2) | 12.7 (4.5) | 416 (147) | 147 (52) |
| 15 | 42.4 (15.2) | 13.5 (4.8) | 438 (157) | 151 (54) | 50.5 (19.7) | 16.0 (6.3) | 524 (205) | 185 (72) |
| 16 | 41.6 (21.5) | 13.2 (6.8) | 431 (223) | 148 (77) | 49.3 (20.9) | 15.7 (6.6) | 513 (217) | 180 (76) |
| 17 | 44.6 (18.4) | 14.2 (5.9) | 462 (191) | 159 (66) | 45.8 (20.9) | 14.5 (6.6) | 476 (217) | 168 (76) |
| 18 | 44.3 (13.1) | 14.1 (4.2) | 459 (135) | 158 (47) | 43.3 (10.4) | 13.8 (3.3) | 450 (108) | 159 (38) |
| 19 | 51.2 (21.4) | 16.3 (6.8) | 530 (222) | 182 (76) | 53.4 (19.3) | 17.0 (6.1) | 555 (200) | 195 (71) |
| 20 | 47.4 (15.1) | 15.1 (4.8) | 491 (156) | 168 (54) | 50.8 (23.7) | 16.1 (7.5) | 528 (246) | 186 (87) |
| 21 | 45.0 (19.0) | 14.3 (6.0) | 466 (197) | 160 (67) | 41.9 (15.8) | 13.3 (5.0) | 435 (164) | 153 (58) |
| 22 | 34.0 (5.9) | 10.8 (1.9) | 352 (61) | 121 (21) | 30.7 (6.5) | 9.8 (2.1) | 319 (68) | 112 (24) |
| 23 | 34.6 (10.7) | 11.0 (3.4) | 358 (111) | 123 (38) | 29.0 (9.1) | 9.2 (2.9) | 302 (95) | 106 (33) |
| 24 | 46.7 (20.5) | 14.8 (6.5) | 483 (212) | 165 (73) | 46.2 (24.1) | 14.7 (7.7) | 480 (250) | 169 (88) |
| 25 | 55.4 (24.5) | 17.6 (7.8) | 573 (254) | 196 (87) | 57.1 (26.0) | 18.1 (8.3) | 594 (270) | 209 (95) |
| 26 | 41.6 (15.0) | 13.2 (4.8) | 430 (155) | 147 (53) | 37.2 (12.7) | 11.8 (4.0) | 387 (132) | 136 (46) |
| 27 | 50.1 (22.7) | 15.9 (7.2) | 518 (235) | 176 (80) | 50.5 (13.4) | 16.0 (4.2) | 525 (139) | 185 (49) |
| 28 | 58.1 (18.4) | 18.5 (5.9) | 602 (191) | 205 (65) | 64.6 (20.7) | 20.5 (6.6) | 672 (216) | 237 (76) |
| 29 | 36.2 (18.1) | 11.5 (5.8) | 375 (188) | 127 (64) | 44.0 (13.5) | 14.0 (4.3) | 458 (140) | 161 (49) |
| 30 | 30.7 (15.5) | 9.7 (4.9) | 317 (161) | 108 (55) | 43.5 (12.7) | 13.8 (4.0) | 452 (132) | 159 (46) |
| 31 | 38.4 (15.6) | 12.2 (5.0) | 397 (162) | 135 (55) | 35.4 (11.2) | 11.2 (3.6) | 368 (117) | 130 (41) |
| Mean | 44.0 | 14.0 | 455 | 156 | 44.9 | 14.3 | 467 | 164 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 8.5 | 2.7 | 88 | 30 | 9.2 | 2.9 | 95 | 34 |
| Min | 28.8 | 9.1 | 298 | 102 | 29.0 | 9.2 | 302 | 106 |
| Max | 63.9 | 20.3 | 661 | 227 | 65.2 | 20.7 | 677 | 237 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for January,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 36.7 (12.2) | 11.7 (3.9) | 380 (126) | 129 (43) | 32.0 (10.5) | 10.2 (3.3) | 333 (109) | 117 (38) |
| 2 | 38.4 (16.5) | 12.2 (5.2) | 398 (171) | 135 (58) | 29.8 (9.7) | 9.5 (3.1) | 310 (101) | 109 (36) |
| 3 | 46.5 (15.4) | 14.8 (4.9) | 482 (160) | 164 (54) | 39.7 (12.6) | 12.6 (4.0) | 413 (131) | 145 (46) |
| 4 | | | | | | | | |
| 5 | 56.4 (23.4) | 17.9 (7.4) | 584 (243) | 199 (83) | 55.0 (10.6) | 17.5 (3.4) | 573 (110) | 202 (39) |
| 6 | 44.4 (16.8) | 14.1 (5.3) | 460 (174) | 157 (59) | 40.2 (13.4) | 12.8 (4.3) | 418 (139) | 147 (49) |
| 7 | 55.5 (25.3) | 17.6 (8.0) | 575 (262) | 196 (89) | 56.2 (29.1) | 17.9 (9.2) | 585 (303) | 206 (107) |
| 8 | 48.8 (21.6) | 15.5 (6.9) | 506 (224) | 172 (76) | 39.4 (13.0) | 12.5 (4.1) | 410 (135) | 144 (48) |
| 9 | 44.5 (19.6) | 14.1 (6.2) | 462 (203) | 157 (69) | 36.1 (11.4) | 11.5 (3.6) | 375 (119) | 131 (42) |
| 10 | | | | | | | | |
| 11 | 54.1 (22.1) | 17.2 (7.0) | 561 (229) | 191 (78) | 49.6 (14.1) | 15.7 (4.5) | 516 (147) | 179 (51) |
| 12 | 47.3 (16.5) | 15.0 (5.2) | 490 (171) | 167 (58) | 40.4 (12.6) | 12.8 (4.0) | 420 (131) | 146 (46) |
| 13 | 39.7 (11.8) | 12.6 (3.8) | 412 (123) | 140 (42) | 35.3 (7.1) | 11.2 (2.2) | 368 (73) | 128 (26) |
| 14 | 41.0 (14.1) | 13.0 (4.5) | 425 (146) | 145 (50) | 35.1 (8.1) | 11.1 (2.6) | 365 (85) | 127 (29) |
| 15 | | | | | | | | |
| 16 | 36.3 (8.9) | 11.5 (2.8) | 377 (92) | 128 (31) | 32.4 (8.4) | 10.3 (2.7) | 337 (87) | 117 (30) |
| 17 | 40.3 (8.2) | 12.8 (2.6) | 418 (86) | 142 (29) | 34.6 (7.5) | 11.0 (2.4) | 361 (78) | 125 (27) |
| 18 | 50.3 (29.4) | 16.0 (9.3) | 522 (305) | 178 (104) | 41.4 (14.2) | 13.1 (4.5) | 431 (148) | 150 (52) |
| 19 | 54.5 (34.9) | 17.3 (11.1) | 566 (362) | 193 (123) | 44.6 (17.6) | 14.2 (5.6) | 464 (183) | 162 (64) |
| 20 | 46.5 (21.9) | 14.7 (7.0) | 482 (227) | 164 (77) | 42.8 (18.7) | 13.6 (5.9) | 446 (195) | 155 (68) |
| 21 | 39.5 (15.3) | 12.5 (4.9) | 410 (159) | 140 (54) | 40.6 (16.4) | 12.9 (5.2) | 423 (171) | 147 (60) |
| 22 | | | | | 57.9 (26.5) | 18.4 (8.4) | 603 (276) | 211 (97) |
| 23 | | | | | | | | |
| 24 | | | | | 62.2 (22.2) | 19.7 (7.1) | 648 (231) | 227 (81) |
| 25 | | | | | 50.3 (20.0) | 16.0 (6.4) | 524 (208) | 183 (73) |
| 26 | | | | | 44.4 (20.0) | 14.1 (6.4) | 462 (209) | 162 (73) |
| 27 | | | | | 51.8 (19.6) | 16.4 (6.2) | 539 (205) | 189 (72) |
| 28 | | | | | 61.9 (32.1) | 19.6 (10.2) | 641 (332) | 224 (116) |
| 29 | | | | | | | | |
| 30 | | | | | 36.4 (20.8) | 11.6 (6.6) | 379 (217) | 133 (76) |
| 31 | 39.3 (16.6) | 12.5 (5.3) | 409 (172) | 139 (59) | 40.4 (16.5) | 12.8 (5.2) | 421 (172) | 147 (60) |
| Mean | 45.3 | 14.4 | 469 | 160 | 43.5 | 13.8 | 452 | 158 |
| n | 19 | 19 | 19 | 19 | 26 | 26 | 26 | 26 |
| SD | 6.4 | 2.0 | 67 | 23 | 9.2 | 2.9 | 95 | 34 |
| Min | 36.3 | 11.5 | 377 | 128 | 29.8 | 9.5 | 310 | 109 |
| Max | 56.4 | 17.9 | 584 | 199 | 62.2 | 19.7 | 648 | 227 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for February,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 49.3 (26.5) | 15.7 (8.4) | 512 (275) | 174 (94) | 51.5 (22.8) | 16.3 (7.3) | 536 (238) | 188 (83) |
| 2 | 53.8 (26.4) | 17.1 (8.4) | 559 (275) | 190 (94) | 56.5 (26.8) | 17.9 (8.5) | 589 (280) | 206 (98) |
| 3 | 43.8 (17.3) | 13.9 (5.5) | 455 (180) | 155 (61) | 37.8 (13.0) | 12.0 (4.1) | 394 (136) | 138 (48) |
| 4 | | | | | 36.3 (11.9) | 11.5 (3.8) | 378 (124) | 132 (44) |
| 5 | 26.3 (9.0) | 8.4 (2.9) | 274 (94) | 93 (32) | 26.8 (7.6) | 8.5 (2.4) | 280 (79) | 98 (28) |
| 6 | 36.9 (14.8) | 11.7 (4.7) | 384 (154) | 131 (52) | 43.5 (18.1) | 13.8 (5.7) | 454 (188) | 159 (66) |
| 7 | 53.6 (18.1) | 17.0 (5.8) | 558 (188) | 190 (64) | 59.9 (26.4) | 19.0 (8.4) | 625 (276) | 219 (96) |
| 8 | 57.6 (24.6) | 18.3 (7.8) | 600 (255) | 204 (87) | | | | |
| 9 | 54.4 (27.0) | 17.3 (8.6) | 567 (282) | 193 (96) | 50.7 (20.3) | 16.1 (6.4) | 529 (211) | 185 (74) |
| 10 | 57.6 (20.5) | 18.3 (6.5) | 599 (214) | 204 (73) | 62.2 (24.5) | 19.7 (7.8) | 649 (255) | 227 (89) |
| 11 | 65.1 (24.7) | 20.7 (7.9) | 678 (258) | 231 (88) | 64.2 (25.3) | 20.4 (8.1) | 670 (264) | 234 (93) |
| 12 | 55.2 (23.8) | 17.5 (7.6) | 575 (248) | 196 (84) | 61.7 (25.9) | 19.6 (8.2) | 644 (271) | 225 (95) |
| 13 | 37.8 (18.2) | 12.0 (5.8) | 394 (189) | 134 (65) | 48.4 (24.7) | 15.4 (7.8) | 505 (258) | 177 (90) |
| 14 | 40.3 (18.5) | 12.8 (5.9) | 420 (193) | 143 (66) | 50.1 (20.3) | 15.9 (6.4) | 523 (212) | 183 (74) |
| 15 | 36.3 (16.7) | 11.5 (5.3) | 379 (174) | 129 (59) | 44.8 (19.9) | 14.2 (6.3) | 467 (208) | 164 (73) |
| 16 | 30.6 (14.1) | 9.7 (4.5) | 319 (147) | 108 (50) | 32.2 (13.6) | 10.2 (4.3) | 336 (142) | 117 (50) |
| 17 | 31.3 (13.8) | 9.9 (4.4) | 326 (144) | 111 (49) | 36.2 (15.9) | 11.5 (5.1) | 378 (166) | 132 (58) |
| 18 | 20.7 (7.9) | 6.6 (2.5) | 216 (82) | 73 (28) | 30.5 (12.0) | 9.7 (3.8) | 318 (125) | 111 (44) |
| 19 | 34.1 (13.2) | 10.8 (4.2) | 355 (137) | 122 (47) | 42.7 (16.6) | 13.6 (5.3) | 446 (173) | 157 (61) |
| 20 | 26.7 (9.4) | 8.5 (3.0) | 279 (98) | 97 (34) | 25.1 (8.1) | 8.0 (2.6) | 263 (85) | 93 (30) |
| 21 | 27.4 (12.2) | 8.7 (3.9) | 286 (127) | 99 (44) | 28.1 (11.7) | 8.9 (3.7) | 294 (122) | 104 (43) |
| 22 | 24.7 (10.8) | 7.8 (3.4) | 257 (112) | 90 (39) | 28.4 (12.4) | 9.0 (3.9) | 297 (129) | 105 (46) |
| 23 | 25.4 (11.5) | 8.1 (3.7) | 265 (120) | 92 (42) | 26.5 (11.1) | 8.4 (3.5) | 277 (116) | 98 (41) |
| 24 | 28.7 (12.1) | 9.1 (3.8) | 300 (126) | 104 (44) | 31.6 (14.0) | 10.0 (4.4) | 330 (146) | 117 (52) |
| 25 | 16.7 (11.4) | 5.3 (3.6) | 174 (119) | 60 (41) | 15.8 (9.8) | 5.0 (3.1) | 165 (102) | 58 (36) |
| 26 | 28.1 (25.2) | 8.9 (8.0) | 293 (263) | 102 (92) | 32.6 (30.7) | 10.4 (9.8) | 341 (321) | 121 (114) |
| 27 | 25.4 (13.0) | 8.1 (4.1) | 265 (136) | 92 (47) | 36.6 (22.9) | 11.6 (7.3) | 382 (240) | 135 (85) |
| 28 | 39.4 (8.6) | 12.5 (2.7) | 411 (89) | 143 (31) | 52.0 (33.4) | 16.5 (10.6) | 543 (350) | 193 (124) |
| Mean | 38.0 (16.6) | 12.1 (5.3) | 396 (173) | 136 (59) | 41.2 (18.5) | 13.1 (5.9) | 430 (193) | 151 (68) |
| n | 27.0 | 27.0 | 27 | 27 | 27.0 | 27.0 | 27 | 27 |
| SD | 13 | 4 | 137 | 46 | 13 | 4 | 135 | 47 |
| Min | 16.7 | 5.3 | 174 | 60 | 15.8 | 5.0 | 165 | 58 |
| Max | 65.1 | 20.7 | 678 | 231 | 64.2 | 20.4 | 670 | 234 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for March,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 39.0 (9.7) | 12.4 (3.1) | 407 (101) | 141 (35) | 34.5 (21.4) | 11.0 (6.8) | 361 (224) | 128 (79) |
| 2 | | | | | | | | |
| 3 | 39.1 (3.6) | 12.4 (1.2) | 409 (38) | 142 (13) | 24.9 (8.5) | 7.9 (2.7) | 260 (89) | 92 (32) |
| 4 | 42.7 (16.0) | 13.5 (5.1) | 445 (167) | 155 (58) | 37.0 (19.6) | 11.8 (6.2) | 387 (205) | 137 (73) |
| 5 | 54.4 (29.8) | 17.3 (9.5) | 568 (312) | 197 (108) | 54.5 (24.2) | 17.3 (7.7) | 570 (253) | 202 (90) |
| 6 | 58.4 (24.6) | 18.5 (7.8) | 610 (257) | 212 (89) | 57.1 (27.1) | 18.1 (8.6) | 598 (283) | 212 (100) |
| 7 | 67.3 (22.1) | 21.4 (7.0) | 703 (231) | 245 (80) | 78.2 (33.5) | 24.8 (10.6) | 818 (351) | 290 (124) |
| 8 | 56.1 (24.3) | 17.8 (7.7) | 586 (254) | 204 (88) | 73.3 (35.8) | 23.3 (11.4) | 767 (375) | 272 (133) |
| 9 | 46.8 (29.5) | 14.9 (9.4) | 489 (309) | 170 (107) | 46.1 (28.7) | 14.6 (9.1) | 483 (301) | 171 (107) |
| 10 | 46.6 (18.8) | 14.8 (6.0) | 487 (196) | 169 (68) | 55.4 (20.7) | 17.6 (6.6) | 580 (216) | 206 (77) |
| 11 | 60.9 (27.4) | 19.3 (8.7) | 636 (286) | 221 (100) | 76.3 (33.0) | 24.2 (10.5) | 799 (346) | 283 (123) |
| 12 | 48.4 (21.2) | 15.4 (6.7) | 506 (221) | 176 (77) | 50.7 (24.3) | 16.1 (7.7) | 531 (254) | 188 (90) |
| 13 | 37.7 (16.0) | 12.0 (5.1) | 395 (168) | 137 (58) | 45.8 (21.6) | 14.5 (6.9) | 479 (226) | 170 (80) |
| 14 | 35.1 (15.1) | 11.1 (4.8) | 367 (158) | 128 (55) | 40.6 (14.9) | 12.9 (4.7) | 425 (156) | 151 (55) |
| 15 | 33.2 (14.3) | 10.5 (4.6) | 347 (150) | 121 (52) | 44.8 (15.0) | 14.2 (4.8) | 469 (157) | 166 (56) |
| 16 | 36.7 (14.0) | 11.6 (4.5) | 383 (147) | 133 (51) | 51.9 (11.9) | 16.5 (3.8) | 544 (125) | 193 (44) |
| 17 | 43.1 (18.7) | 13.7 (5.9) | 451 (196) | 157 (68) | 52.3 (21.9) | 16.6 (7.0) | 548 (229) | 194 (81) |
| 18 | 43.7 (18.6) | 13.9 (5.9) | 457 (194) | 159 (68) | 52.1 (20.8) | 16.6 (6.6) | 546 (217) | 194 (77) |
| 19 | 42.1 (18.5) | 13.4 (5.9) | 441 (194) | 155 (68) | 41.9 (18.6) | 13.3 (5.9) | 439 (194) | 155 (69) |
| 20 | 39.4 (17.7) | 12.5 (5.6) | 413 (185) | 146 (66) | 41.7 (16.4) | 13.2 (5.2) | 436 (172) | 154 (61) |
| 21 | 40.3 (15.2) | 12.8 (4.8) | 422 (160) | 150 (57) | 45.4 (17.9) | 14.4 (5.7) | 476 (187) | 168 (66) |
| 22 | 43.3 (14.0) | 13.7 (4.4) | 453 (147) | 161 (52) | 47.7 (19.2) | 15.2 (6.1) | 500 (201) | 177 (71) |
| 23 | 40.7 (18.4) | 12.9 (5.9) | 426 (193) | 151 (68) | 96.4 (119.0) | 30.6 (37.6) | 1010 (1240) | 357 (439) |
| 24 | 43.9 (29.9) | 13.9 (9.5) | 460 (313) | 163 (111) | 40.3 (18.2) | 12.8 (5.8) | 422 (191) | 149 (68) |
| 25 | 93.9 (152.0) | 29.8 (48.4) | 983 (1600) | 348 (566) | 49.2 (19.6) | 15.6 (6.2) | 516 (205) | 182 (72) |
| 26 | | | | | | | | |
| 27 | 91.1 (87.5) | 28.9 (27.8) | 955 (917) | 338 (325) | 82.2 (56.4) | 26.1 (17.9) | 861 (591) | 304 (209) |
| 28 | 73.3 (24.1) | 23.3 (7.7) | 768 (253) | 272 (90) | 78.9 (21.3) | 25.0 (6.8) | 827 (224) | 292 (79) |
| 29 | 64.0 (23.9) | 20.3 (7.6) | 670 (250) | 238 (89) | 69.8 (23.4) | 22.2 (7.4) | 732 (246) | 259 (87) |
| 30 | 45.1 (16.7) | 14.3 (5.3) | 472 (175) | 167 (62) | 48.7 (13.3) | 15.5 (4.2) | 510 (139) | 180 (49) |
| 31 | 49.2 (26.0) | 15.6 (8.3) | 516 (273) | 183 (97) | 46.6 (15.1) | 14.8 (4.8) | 488 (158) | 173 (56) |
| Mean | 50.2 | 15.9 | 525 | 184 | 53.9 | 17.1 | 565 | 200 |
| n | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| SD | 15.1 | 4.8 | 158 | 56 | 16.2 | 5.1 | 169 | 60 |
| Min | 33.2 | 10.5 | 347 | 121 | 24.9 | 7.9 | 260 | 92 |
| Max | 93.9 | 29.8 | 983 | 348 | 96.4 | 30.6 | 1010 | 357 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for April,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 36.6 (14.4) | 11.6 (4.6) | 384 (151) | 136 (54) | 51.4 (14.2) | 16.3 (4.5) | 539 (149) | 190 (53) |
| 2 | 38.3 (16.6) | 12.1 (5.3) | 401 (174) | 142 (62) | 56.5 (15.0) | 17.9 (4.8) | 593 (157) | 209 (56) |
| 3 | 42.6 (16.7) | 13.5 (5.3) | 447 (175) | 159 (62) | 54.8 (20.5) | 17.4 (6.5) | 575 (215) | 203 (76) |
| 4 | 33.9 (19.9) | 10.8 (6.3) | 356 (209) | 126 (74) | 41.5 (15.2) | 13.2 (4.8) | 435 (159) | 154 (56) |
| 5 | 26.7 (18.6) | 8.5 (5.9) | 280 (195) | 99 (69) | 45.7 (17.8) | 14.5 (5.6) | 480 (186) | 169 (66) |
| 6 | 29.5 (15.2) | 9.4 (4.8) | 310 (160) | 110 (57) | 52.4 (19.3) | 16.7 (6.1) | 551 (203) | 195 (72) |
| 7 | 16.6 (11.2) | 5.3 (3.6) | 174 (118) | 62 (42) | 36.8 (11.8) | 11.7 (3.8) | 387 (124) | 137 (44) |
| 8 | 18.3 (10.4) | 5.8 (3.3) | 192 (109) | 72 (41) | 37.3 (12.0) | 11.8 (3.8) | 391 (126) | 138 (45) |
| 9 | 14.2 (19.1) | 4.5 (6.1) | 149 (200) | 60 (80) | 40.8 (14.3) | 13.0 (4.5) | 429 (150) | 151 (53) |
| 10 | 13.7 (16.9) | 4.4 (5.4) | 144 (178) | 58 (71) | 45.4 (20.2) | 14.4 (6.4) | 477 (212) | 168 (75) |
| 11 | 10.1 (11.6) | 3.2 (3.7) | 107 (122) | 43 (49) | 51.2 (22.0) | 16.3 (7.0) | 538 (231) | 190 (82) |
| 12 | 3.7 (13.9) | 1.2 (4.4) | 39 (146) | 16 (59) | 39.0 (13.1) | 12.4 (4.1) | 410 (137) | 145 (49) |
| 13 | 8.5 (7.3) | 2.7 (2.3) | 89 (77) | 36 (31) | 46.8 (21.6) | 14.8 (6.9) | 491 (227) | 174 (80) |
| 14 | 14.3 (11.9) | 4.5 (3.8) | 151 (125) | 60 (50) | 65.9 (27.3) | 20.9 (8.7) | 692 (287) | 245 (101) |
| 15 | 9.8 (6.5) | 3.1 (2.1) | 103 (69) | 41 (28) | 54.1 (17.7) | 17.2 (5.6) | 568 (186) | 201 (66) |
| 16 | 12.9 (9.9) | 4.1 (3.1) | 136 (104) | 55 (42) | 43.9 (14.2) | 13.9 (4.5) | 461 (150) | 163 (53) |
| 17 | 17.1 (14.9) | 5.4 (4.7) | 180 (156) | 73 (63) | 43.1 (15.9) | 13.7 (5.0) | 453 (167) | 160 (59) |
| 18 | 4.9 (19.6) | 1.6 (6.2) | 51 (207) | 21 (85) | 54.7 (18.9) | 17.4 (6.0) | 575 (199) | 203 (70) |
| 19 | 17.7 (15.1) | 5.6 (4.8) | 187 (159) | 78 (66) | 56.7 (18.2) | 18.0 (5.8) | 596 (191) | 211 (68) |
| 20 | 41.5 (23.4) | 13.2 (7.4) | 438 (247) | 181 (102) | 79.5 (31.3) | 25.2 (9.9) | 836 (329) | 295 (116) |
| 21 | 42.7 (20.2) | 13.6 (6.4) | 451 (213) | 187 (88) | 57.7 (16.8) | 18.3 (5.3) | 607 (177) | 215 (63) |
| 22 | 44.2 (22.2) | 14.0 (7.1) | 466 (234) | 183 (94) | 53.3 (20.4) | 16.9 (6.5) | 561 (214) | 197 (76) |
| 23 | 37.4 (31.7) | 11.9 (10.1) | 395 (335) | 147 (124) | 19.5 (43.2) | 6.2 (13.7) | 205 (455) | 72 (159) |
| 24 | 76.4 (35.9) | 24.2 (11.4) | 806 (379) | 299 (141) | 69.4 (21.8) | 22.0 (6.9) | 731 (230) | 256 (80) |
| 25 | 90.7 (43.0) | 28.8 (13.6) | 958 (454) | 355 (168) | 81.0 (21.6) | 25.7 (6.9) | 853 (228) | 299 (80) |
| 26 | 69.4 (45.0) | 22.0 (14.3) | 732 (475) | 272 (176) | 50.4 (31.3) | 16.0 (10.0) | 531 (330) | 186 (115) |
| 27 | 83.4 (47.9) | 26.5 (15.2) | 880 (506) | 327 (188) | 73.4 (38.5) | 23.3 (12.2) | 773 (405) | 271 (142) |
| 28 | 97.5 (52.0) | 30.9 (16.5) | 1030 (549) | 382 (204) | 69.6 (24.7) | 22.1 (7.8) | 733 (260) | 256 (91) |
| 29 | 69.9 (34.7) | 22.2 (11.0) | 738 (366) | 274 (136) | 73.9 (35.6) | 23.5 (11.3) | 778 (375) | 272 (131) |
| 30 | 55.3 (25.5) | 17.6 (8.1) | 584 (269) | 206 (96) | 38.3 (18.5) | 12.1 (5.9) | 403 (194) | 141 (68) |
| Mean | 35.9 | 11.4 | 379 | 142 | 52.8 | 16.8 | 555 | 196 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 26.5 | 8.4 | 280 | 103 | 13.9 | 4.4 | 146 | 51 |
| Min | 3.7 | 1.2 | 39 | 16 | 19.5 | 6.2 | 205 | 72 |
| Max | 97.5 | 30.9 | 1030 | 382 | 81.0 | 25.7 | 853 | 299 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for May,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 80.1 (38.4) | 25.4 (12.2) | 845 (405) | 283 (136) | 80.6 (28.5) | 25.6 (9.1) | 849 (300) | 297 (105) |
| 2 | | | | | | | | |
| 3 | 80.5 (36.0) | 25.6 (11.4) | 850 (381) | 285 (127) | 88.4 (33.1) | 28.1 (10.5) | 932 (349) | 326 (122) |
| 4 | 79.7 (39.5) | 25.3 (12.5) | 842 (417) | 282 (140) | 77.0 (30.1) | 24.5 (9.5) | 812 (317) | 284 (111) |
| 5 | 78.8 (25.9) | 25.0 (8.2) | 832 (273) | 279 (92) | 83.4 (25.0) | 26.5 (7.9) | 880 (264) | 308 (92) |
| 6 | 100.0 (37.3) | 31.9 (11.8) | 1060 (394) | 356 (132) | 116.0 (41.4) | 36.8 (13.1) | 1220 (436) | 428 (153) |
| 7 | 113.0 (38.0) | 35.8 (12.1) | 1190 (401) | 399 (134) | 105.0 (28.1) | 33.2 (8.9) | 1100 (297) | 387 (104) |
| 8 | 119.0 (45.2) | 37.9 (14.4) | 1260 (478) | 422 (160) | 89.3 (26.1) | 28.3 (8.3) | 942 (275) | 330 (96) |
| 9 | | | | | | | | |
| 10 | 86.0 (34.1) | 27.3 (10.8) | 909 (361) | 305 (121) | 59.2 (19.3) | 18.8 (6.1) | 625 (204) | 219 (71) |
| 11 | 68.8 (17.7) | 21.9 (5.6) | 727 (187) | 244 (63) | 50.9 (12.6) | 16.2 (4.0) | 538 (133) | 188 (47) |
| 12 | 73.2 (26.5) | 23.3 (8.4) | 774 (280) | 259 (94) | 54.2 (18.5) | 17.2 (5.9) | 573 (195) | 200 (68) |
| 13 | 89.5 (49.6) | 28.4 (15.8) | 946 (525) | 317 (176) | 50.3 (18.8) | 16.0 (6.0) | 532 (198) | 186 (69) |
| 14 | 81.6 (32.9) | 25.9 (10.4) | 863 (347) | 289 (116) | 64.6 (20.2) | 20.5 (6.4) | 683 (213) | 239 (75) |
| 15 | 102.0 (37.6) | 32.3 (11.9) | 1080 (397) | 361 (133) | 78.3 (28.2) | 24.9 (8.9) | 828 (298) | 290 (104) |
| 16 | 92.7 (31.5) | 29.4 (10.0) | 980 (333) | 328 (112) | 80.2 (28.4) | 25.5 (9.0) | 848 (300) | 297 (105) |
| 17 | 81.1 (25.8) | 25.8 (8.2) | 858 (273) | 287 (91) | 67.5 (22.7) | 21.4 (7.2) | 713 (240) | 250 (84) |
| 18 | 63.5 (25.1) | 20.2 (8.0) | 672 (266) | 225 (89) | 59.8 (18.8) | 19.0 (6.0) | 632 (199) | 221 (70) |
| 19 | 54.3 (19.8) | 17.2 (6.3) | 574 (209) | 192 (70) | 50.6 (19.6) | 16.0 (6.2) | 535 (207) | 187 (73) |
| 20 | 60.2 (25.7) | 19.1 (8.2) | 637 (272) | 213 (91) | 53.5 (19.7) | 17.0 (6.3) | 566 (209) | 198 (73) |
| 21 | 62.0 (27.5) | 19.7 (8.7) | 656 (291) | 220 (97) | 58.3 (17.4) | 18.5 (5.5) | 617 (184) | 216 (64) |
| 22 | 65.2 (26.0) | 20.7 (8.3) | 690 (275) | 231 (92) | 73.1 (25.7) | 23.2 (8.2) | 774 (272) | 271 (95) |
| 23 | 77.3 (30.9) | 24.5 (9.8) | 818 (327) | 274 (109) | 87.7 (27.5) | 27.8 (8.7) | 928 (291) | 325 (102) |
| 24 | 63.9 (33.1) | 20.3 (10.5) | 676 (350) | 226 (117) | 73.7 (40.0) | 23.4 (12.7) | 780 (423) | 273 (148) |
| 25 | 84.5 (30.6) | 26.8 (9.7) | 894 (323) | 299 (108) | 93.3 (29.0) | 29.6 (9.2) | 988 (307) | 346 (108) |
| 26 | 65.2 (52.4) | 20.7 (16.6) | 690 (554) | 231 (186) | 54.7 (47.1) | 17.4 (14.9) | 579 (498) | 203 (174) |
| 27 | 88.8 (33.6) | 28.2 (10.7) | 940 (356) | 315 (119) | 93.8 (31.8) | 29.8 (10.1) | 994 (337) | 348 (118) |
| 28 | | | | | | | | |
| 29 | 91.8 (34.5) | 29.2 (10.9) | 972 (365) | 326 (122) | 90.2 (25.7) | 28.6 (8.2) | 957 (273) | 335 (96) |
| 30 | 34.7 (52.3) | 11.0 (16.6) | 367 (553) | 123 (185) | 21.8 (75.7) | 6.9 (24.0) | 231 (802) | 81 (281) |
| 31 | 77.7 (34.3) | 24.7 (10.9) | 822 (363) | 276 (122) | 77.1 (25.3) | 24.5 (8.0) | 817 (269) | 286 (94) |
| Mean | 79.1 | 25.1 | 836 | 280 | 72.6 | 23.0 | 767 | 268 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 17.5 | 5.6 | 185 | 62 | 19.7 | 6.3 | 208 | 73 |
| Min | 34.7 | 11.0 | 367 | 123 | 21.8 | 6.9 | 231 | 81 |
| Max | 119.0 | 37.9 | 1260 | 422 | 116.0 | 36.8 | 1220 | 428 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for June,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 88.4 (57.6) | 28.1 (18.3) | 936 (610) | 314 (204) | 88.6 (45.6) | 28.1 (14.5) | 940 (484) | 329 (169) |
| 2 | 85.1 (30.0) | 27.0 (9.5) | 901 (317) | 302 (106) | 75.9 (22.5) | 24.1 (7.2) | 805 (239) | 282 (84) |
| 3 | 79.4 (26.5) | 25.2 (8.4) | 841 (281) | 282 (94) | 72.3 (20.3) | 22.9 (6.4) | 767 (215) | 268 (75) |
| 4 | 86.0 (35.2) | 27.3 (11.2) | 911 (373) | 305 (125) | 76.4 (24.2) | 24.3 (7.7) | 811 (257) | 284 (90) |
| 5 | 89.0 (39.0) | 28.3 (12.4) | 943 (413) | 316 (138) | 79.9 (25.7) | 25.4 (8.1) | 848 (272) | 297 (95) |
| 6 | 57.9 (25.2) | 18.4 (8.0) | 614 (267) | 206 (89) | 65.9 (22.2) | 20.9 (7.1) | 699 (236) | 245 (82) |
| 7 | 55.1 (19.6) | 17.5 (6.2) | 584 (208) | 196 (70) | 63.3 (23.7) | 20.1 (7.5) | 672 (252) | 235 (88) |
| 8 | 82.5 (26.8) | 26.2 (8.5) | 874 (284) | 293 (95) | 111.0 (39.5) | 35.2 (12.5) | 1180 (419) | 412 (147) |
| 9 | 82.2 (44.8) | 26.1 (14.2) | 871 (474) | 292 (159) | 98.3 (91.9) | 31.2 (29.2) | 1040 (976) | 366 (341) |
| 10 | 81.9 (30.6) | 26.0 (9.7) | 868 (324) | 291 (109) | 88.0 (28.8) | 27.9 (9.2) | 935 (306) | 327 (107) |
| 11 | 106.0 (35.8) | 33.6 (11.4) | 1120 (380) | 376 (127) | 133.0 (53.4) | 42.3 (17.0) | 1420 (568) | 496 (199) |
| 12 | 81.8 (43.5) | 26.0 (13.8) | 867 (461) | 291 (155) | 83.2 (40.3) | 26.4 (12.8) | 885 (429) | 310 (150) |
| 13 | 81.2 (39.2) | 25.8 (12.4) | 860 (415) | 288 (139) | 80.8 (35.2) | 25.7 (11.2) | 859 (374) | 301 (131) |
| 14 | 88.7 (31.1) | 28.2 (9.9) | 940 (330) | 315 (110) | 92.3 (30.6) | 29.3 (9.7) | 982 (325) | 343 (114) |
| 15 | 77.2 (29.5) | 24.5 (9.4) | 818 (312) | 274 (105) | 71.2 (29.8) | 22.6 (9.5) | 757 (317) | 265 (111) |
| 16 | 63.7 (28.2) | 20.2 (9.0) | 675 (299) | 226 (100) | 65.4 (48.8) | 20.8 (15.5) | 695 (519) | 243 (182) |
| 17 | 74.1 (22.3) | 23.5 (7.1) | 786 (237) | 265 (80) | 76.6 (18.8) | 24.3 (6.0) | 815 (200) | 279 (69) |
| 18 | 86.4 (25.2) | 27.4 (8.0) | 916 (267) | 312 (91) | 89.4 (27.5) | 28.4 (8.7) | 952 (293) | 318 (98) |
| 19 | 97.9 (33.6) | 31.1 (10.7) | 1040 (356) | 353 (121) | 104.0 (25.7) | 33.1 (8.2) | 1110 (273) | 371 (91) |
| 20 | 86.7 (33.7) | 27.5 (10.7) | 920 (357) | 313 (122) | 93.1 (29.8) | 29.6 (9.5) | 991 (318) | 331 (106) |
| 21 | 66.4 (20.6) | 21.1 (6.5) | 705 (218) | 240 (74) | 76.8 (24.5) | 24.4 (7.8) | 817 (261) | 273 (87) |
| 22 | 67.6 (24.4) | 21.5 (7.8) | 717 (259) | 244 (88) | 71.3 (21.3) | 22.6 (6.8) | 759 (227) | 254 (76) |
| 23 | 94.2 (56.8) | 29.9 (18.0) | 999 (603) | 340 (205) | 79.3 (33.6) | 25.2 (10.7) | 844 (358) | 282 (119) |
| 24 | 74.6 (28.7) | 23.7 (9.1) | 792 (305) | 269 (104) | 86.8 (38.4) | 27.6 (12.2) | 925 (410) | 309 (137) |
| 25 | 25.4 (71.2) | 8.1 (22.6) | 270 (756) | 92 (257) | 32.7 (64.4) | 10.4 (20.4) | 349 (686) | 117 (229) |
| 26 | 42.9 (64.3) | 13.6 (20.4) | 455 (682) | 155 (232) | 76.9 (103.0) | 24.4 (32.7) | 819 (1100) | 274 (367) |
| 27 | 68.2 (29.2) | 21.7 (9.3) | 724 (310) | 242 (104) | 83.7 (66.5) | 26.6 (21.1) | 892 (709) | 298 (237) |
| 28 | 76.6 (37.1) | 24.3 (11.8) | 812 (394) | 268 (130) | 72.9 (29.4) | 23.2 (9.3) | 778 (313) | 260 (105) |
| 29 | 68.0 (22.1) | 21.6 (7.0) | 721 (234) | 238 (77) | 85.1 (32.1) | 27.0 (10.2) | 907 (342) | 303 (114) |
| 30 | 62.0 (63.1) | 19.7 (20.0) | 658 (669) | 217 (221) | 76.7 (77.1) | 24.3 (24.5) | 818 (822) | 273 (275) |
| Mean | 75.9 | 24.1 | 805 | 270 | 81.7 | 25.9 | 869 | 298 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 16.2 | 5.1 | 171 | 58 | 16.9 | 5.4 | 179 | 63 |
| Min | 25.4 | 8.1 | 270 | 92 | 32.7 | 10.4 | 349 | 117 |
| Max | 106.0 | 33.6 | 1120 | 376 | 133.0 | 42.3 | 1420 | 496 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for July,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 54.2 (35.2) | 17.2 (11.2) | 575 (374) | 190 (123) | 71.1 (55.7) | 22.6 (17.7) | 759 (594) | 253 (198) |
| 2 | 90.4 (37.7) | 28.7 (12.0) | 959 (400) | 317 (132) | 97.8 (35.8) | 31.0 (11.4) | 1040 (382) | 348 (128) |
| 3 | 73.3 (33.9) | 23.3 (10.8) | 778 (360) | 257 (119) | 73.5 (26.9) | 23.3 (8.5) | 785 (287) | 262 (96) |
| 4 | 79.1 (27.7) | 25.1 (8.8) | 840 (294) | 277 (97) | 95.5 (44.0) | 30.3 (14.0) | 1020 (470) | 341 (157) |
| 5 | 112.0 (78.3) | 35.4 (24.8) | 1190 (831) | 391 (274) | 128.0 (69.9) | 40.8 (22.2) | 1370 (747) | 458 (249) |
| 6 | 101.0 (29.8) | 32.2 (9.5) | 1080 (316) | 355 (104) | 141.0 (108.0) | 44.9 (34.2) | 1510 (1150) | 504 (384) |
| 7 | 105.0 (43.8) | 33.4 (13.9) | 1120 (465) | 369 (153) | 109.0 (40.3) | 34.7 (12.8) | 1170 (431) | 390 (144) |
| 8 | 59.8 (76.9) | 19.0 (24.4) | 635 (817) | 210 (270) | 59.2 (78.3) | 18.8 (24.9) | 632 (837) | 211 (279) |
| 9 | 74.6 (61.7) | 23.7 (19.6) | 792 (655) | 262 (216) | 58.3 (54.6) | 18.5 (17.3) | 623 (584) | 208 (195) |
| 10 | 73.1 (86.2) | 23.2 (27.4) | 776 (916) | 256 (302) | 52.9 (59.0) | 16.8 (18.7) | 566 (631) | 189 (211) |
| 11 | 80.8 (21.8) | 25.7 (6.9) | 859 (232) | 283 (77) | 94.6 (32.8) | 30.0 (10.4) | 1010 (351) | 338 (117) |
| 12 | 103.0 (26.3) | 32.8 (8.4) | 1100 (280) | 362 (92) | 111.0 (26.0) | 35.3 (8.3) | 1190 (278) | 397 (93) |
| 13 | 94.8 (26.1) | 30.1 (8.3) | 1010 (277) | 332 (92) | 98.2 (25.3) | 31.2 (8.0) | 1050 (271) | 351 (91) |
| 14 | 108.0 (91.0) | 34.2 (28.9) | 1140 (967) | 377 (319) | 105.0 (75.3) | 33.5 (23.9) | 1130 (806) | 377 (269) |
| 15 | 78.7 (45.9) | 25.0 (14.6) | 837 (488) | 276 (161) | 127.0 (91.2) | 40.3 (29.0) | 1360 (976) | 454 (326) |
| 16 | 86.5 (25.3) | 27.4 (8.0) | 919 (269) | 303 (89) | 91.7 (22.2) | 29.1 (7.1) | 982 (238) | 328 (80) |
| 17 | 94.1 (37.3) | 29.9 (11.8) | 1000 (396) | 330 (131) | 107.0 (30.8) | 33.9 (9.8) | 1140 (330) | 382 (110) |
| 18 | 92.7 (35.5) | 29.4 (11.3) | 986 (377) | 325 (124) | 115.0 (51.3) | 36.5 (16.3) | 1230 (550) | 411 (184) |
| 19 | 95.6 (42.6) | 30.4 (13.5) | 1020 (452) | 336 (149) | 105.0 (70.5) | 33.3 (22.4) | 1120 (755) | 375 (252) |
| 20 | 107.0 (42.3) | 34.1 (13.4) | 1140 (450) | 377 (149) | 118.0 (51.1) | 37.5 (16.2) | 1260 (547) | 422 (183) |
| 21 | 121.0 (93.6) | 38.5 (29.7) | 1290 (995) | 426 (328) | 115.0 (33.8) | 36.5 (10.7) | 1230 (362) | 412 (121) |
| 22 | 93.9 (108.0) | 29.8 (34.4) | 998 (1150) | 329 (380) | 125.0 (68.8) | 39.7 (21.9) | 1340 (738) | 448 (246) |
| 23 | 162.0 (63.7) | 51.4 (20.2) | 1720 (678) | 568 (224) | 189.0 (79.6) | 60.0 (25.3) | 2030 (853) | 677 (285) |
| 24 | 104.0 (28.5) | 32.9 (9.1) | 1100 (303) | 364 (100) | 123.0 (37.6) | 39.1 (11.9) | 1320 (403) | 441 (135) |
| 25 | 107.0 (46.3) | 34.0 (14.7) | 1140 (493) | 371 (162) | 106.0 (36.9) | 33.6 (11.7) | 1140 (395) | 380 (132) |
| 26 | 118.0 (41.1) | 37.4 (13.0) | 1250 (437) | 401 (140) | 114.0 (26.9) | 36.2 (8.5) | 1220 (288) | 410 (97) |
| 27 | 96.4 (33.4) | 30.6 (10.6) | 1030 (355) | 328 (114) | 119.0 (40.4) | 37.7 (12.8) | 1270 (433) | 427 (145) |
| 28 | 105.0 (29.7) | 33.4 (9.4) | 1120 (316) | 359 (101) | 119.0 (42.5) | 37.8 (13.5) | 1280 (456) | 428 (153) |
| 29 | 96.9 (17.6) | 30.8 (5.6) | 1030 (187) | 330 (60) | 118.0 (17.7) | 37.6 (5.6) | 1270 (190) | 426 (64) |
| 30 | 135.0 (26.2) | 42.9 (8.3) | 1440 (279) | 460 (89) | 169.0 (33.5) | 53.6 (10.6) | 1810 (360) | 607 (120) |
| 31 | 115.0 (32.4) | 36.6 (10.3) | 1230 (345) | 393 (110) | 132.0 (30.2) | 41.8 (9.6) | 1410 (324) | 474 (109) |
| Mean | 97.4 | 30.9 | 1030 | 339 | 109.0 | 34.7 | 1170 | 391 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 21.0 | 6.7 | 224 | 72 | 28.4 | 9.0 | 305 | 102 |
| Min | 54.2 | 17.2 | 575 | 190 | 52.9 | 16.8 | 566 | 189 |
| Max | 162.0 | 51.4 | 1720 | 568 | 189.0 | 60.0 | 2030 | 677 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for August,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 133.0 (32.5) | 42.3 (10.3) | 1420 (345) | 454 (111) | | | | |
| 2 | 150.0 (27.1) | 47.7 (8.6) | 1600 (288) | 513 (92) | | | | |
| 3 | 138.0 (29.7) | 43.9 (9.4) | 1470 (316) | 472 (101) | | | | |
| 4 | 132.0 (51.4) | 42.0 (16.3) | 1410 (547) | 451 (175) | | | | |
| 5 | 92.4 (28.1) | 29.3 (8.9) | 984 (299) | 315 (96) | | | | |
| 6 | 117.0 (35.5) | 37.1 (11.3) | 1250 (378) | 399 (121) | | | | |
| 7 | 136.0 (68.1) | 43.1 (21.6) | 1440 (725) | 463 (232) | 133.0 (58.1) | 42.1 (18.5) | 1430 (625) | 477 (209) |
| 8 | 127.0 (91.4) | 40.4 (29.0) | 1350 (973) | 434 (312) | 106.0 (27.5) | 33.6 (8.7) | 1140 (296) | 381 (99) |
| 9 | 85.3 (31.6) | 27.1 (10.0) | 908 (337) | 291 (108) | 104.0 (57.9) | 32.9 (18.4) | 1120 (623) | 374 (209) |
| 10 | 98.6 (69.0) | 31.3 (21.9) | 1050 (735) | 337 (236) | 93.9 (34.7) | 29.8 (11.0) | 1010 (374) | 338 (125) |
| 11 | 72.1 (29.3) | 22.9 (9.3) | 768 (312) | 246 (100) | 74.0 (25.2) | 23.5 (8.0) | 797 (271) | 267 (91) |
| 12 | 102.0 (33.8) | 32.4 (10.7) | 1090 (360) | 348 (115) | 90.9 (33.1) | 28.9 (10.5) | 978 (356) | 328 (119) |
| 13 | 101.0 (30.8) | 32.2 (9.8) | 1080 (328) | 346 (105) | 106.0 (34.9) | 33.5 (11.1) | 1140 (376) | 381 (126) |
| 14 | 147.0 (52.1) | 46.8 (16.6) | 1570 (555) | 503 (178) | 160.0 (53.9) | 50.7 (17.1) | 1720 (581) | 577 (195) |
| 15 | 92.8 (45.8) | 29.5 (14.6) | 989 (489) | 317 (157) | 102.0 (49.7) | 32.4 (15.8) | 1100 (535) | 368 (179) |
| 16 | 125.0 (131.0) | 39.7 (41.4) | 1330 (1390) | 427 (446) | 150.0 (128.0) | 47.7 (40.6) | 1620 (1380) | 542 (461) |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | 100.0 (25.3) | 31.8 (8.0) | 1070 (270) | 342 (86) | 108.0 (20.7) | 34.4 (6.6) | 1170 (223) | 392 (75) |
| 20 | | | | | 112.0 (48.5) | 35.5 (15.4) | 1210 (523) | 404 (175) |
| 21 | 98.8 (29.1) | 31.4 (9.2) | 1050 (310) | 338 (99) | 113.0 (26.0) | 36.0 (8.3) | 1220 (281) | 410 (94) |
| 22 | 115.0 (27.9) | 36.5 (8.9) | 1230 (297) | 393 (95) | 136.0 (34.9) | 43.1 (11.1) | 1460 (376) | 484 (124) |
| 23 | 103.0 (40.1) | 32.6 (12.7) | 1100 (428) | 352 (137) | 148.0 (75.1) | 47.1 (23.8) | 1600 (810) | 522 (264) |
| 24 | 129.0 (41.9) | 41.1 (13.3) | 1380 (447) | 444 (144) | 168.0 (62.2) | 53.3 (19.8) | 1810 (672) | 591 (219) |
| 25 | 137.0 (99.0) | 43.5 (31.4) | 1460 (1060) | 470 (339) | 182.0 (86.9) | 57.8 (27.6) | 1960 (938) | 641 (306) |
| 26 | 149.0 (90.6) | 47.2 (28.8) | 1590 (966) | 510 (311) | 185.0 (84.0) | 58.6 (26.7) | 1990 (907) | 650 (296) |
| 27 | 74.9 (25.9) | 23.8 (8.2) | 799 (276) | 257 (89) | 123.0 (41.9) | 39.2 (13.3) | 1330 (453) | 435 (148) |
| 28 | 85.9 (37.6) | 27.3 (11.9) | 916 (401) | 294 (129) | 127.0 (46.5) | 40.2 (14.8) | 1370 (502) | 446 (164) |
| 29 | 119.0 (21.5) | 37.8 (6.8) | 1270 (230) | 408 (74) | 147.0 (27.6) | 46.6 (8.8) | 1580 (299) | 517 (97) |
| 30 | 77.3 (25.6) | 24.5 (8.1) | 825 (273) | 265 (88) | 106.0 (35.8) | 33.6 (11.4) | 1140 (387) | 373 (126) |
| 31 | 85.5 (24.9) | 27.2 (7.9) | 913 (265) | 293 (85) | 98.3 (24.0) | 31.2 (7.6) | 1060 (259) | 346 (85) |
| Mean | 112.0 | 35.4 | 1190 | 381 | 125.0 | 39.6 | 1350 | 445 |
| n | 28 | 28 | 28 | 28 | 23 | 23 | 23 | 23 |
| SD | 23.4 | 7.4 | 249 | 80 | 29.3 | 9.3 | 317 | 102 |
| Min | 72.1 | 22.9 | 768 | 246 | 74.0 | 23.5 | 797 | 267 |
| Max | 150.0 | 47.7 | 1600 | 513 | 185.0 | 58.6 | 1990 | 650 |

**Table E11. Daily means (SD) of H2S emissions at Site NC2B for September,2009**

| Day | House 3 | | | | House 4 | | | |
|---|---|---|---|---|---|---|---|---|
| | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ | $g \cdot d^{-1}$ | $mg \cdot d^{-1} m^{2}$ | $mg \cdot d^{-1} hd^{-1}$ | $mg \cdot d^{-1} AU^{-1}$ |
| 1 | 77.9 (43.5) | 24.7 (13.8) | 831 (464) | 267 (149) | 103.0 (44.6) | 32.6 (14.2) | 1110 (482) | 362 (157) |
| 2 | 76.6 (28.0) | 24.3 (8.9) | 817 (299) | 263 (96) | 91.7 (31.5) | 29.1 (10.0) | 992 (340) | 324 (111) |
| 3 | 73.4 (27.1) | 23.3 (8.6) | 783 (289) | 252 (93) | 108.0 (36.0) | 34.3 (11.4) | 1170 (389) | 381 (127) |
| 4 | 73.5 (24.0) | 23.3 (7.6) | 785 (256) | 252 (82) | 105.0 (34.4) | 33.2 (10.9) | 1130 (372) | 369 (121) |
| 5 | 102.0 (49.9) | 32.4 (15.9) | 1090 (533) | 350 (171) | 142.0 (66.1) | 45.1 (21.0) | 1540 (716) | 501 (233) |
| 6 | 96.5 (47.4) | 30.6 (15.1) | 1030 (506) | 331 (163) | 133.0 (46.8) | 42.3 (14.9) | 1440 (507) | 470 (165) |
| 7 | 99.2 (47.8) | 31.5 (15.2) | 1060 (510) | 340 (164) | 124.0 (37.0) | 39.2 (11.7) | 1340 (400) | 436 (130) |
| 8 | 78.2 (29.4) | 24.8 (9.3) | 835 (314) | 268 (101) | 135.0 (41.8) | 42.8 (13.3) | 1460 (453) | 476 (148) |
| 9 | 79.3 (25.4) | 25.2 (8.1) | 847 (271) | 272 (87) | 124.0 (36.9) | 39.2 (11.7) | 1340 (400) | 436 (130) |
| 10 | 65.8 (23.5) | 20.9 (7.5) | 702 (251) | 226 (81) | 97.5 (29.0) | 31.0 (9.2) | 1060 (314) | 345 (102) |
| 11 | 68.9 (23.5) | 21.9 (7.5) | 736 (251) | 236 (81) | 106.0 (27.7) | 33.6 (8.8) | 1150 (300) | 374 (98) |
| 12 | 53.0 (36.5) | 16.8 (11.6) | 566 (389) | 182 (125) | 101.0 (44.8) | 31.9 (14.2) | 1090 (486) | 355 (158) |
| 13 | 66.5 (28.7) | 21.1 (9.1) | 710 (306) | 228 (98) | 99.1 (29.4) | 31.5 (9.3) | 1070 (318) | 350 (104) |
| 14 | 82.2 (46.2) | 26.1 (14.7) | 878 (494) | 282 (159) | 155.0 (88.7) | 49.4 (28.2) | 1690 (962) | 550 (314) |
| 15 | 130.0 (97.8) | 41.2 (31.1) | 1390 (1050) | 445 (336) | 184.0 (79.6) | 58.3 (25.3) | 1990 (863) | 650 (282) |
| 16 | 87.0 (43.2) | 27.6 (13.7) | 930 (462) | 299 (148) | 144.0 (52.6) | 45.8 (16.7) | 1560 (571) | 510 (186) |
| 17 | 94.5 (36.2) | 30.0 (11.5) | 1010 (386) | 326 (125) | 150.0 (46.8) | 47.8 (14.8) | 1630 (507) | 533 (166) |
| 18 | 90.2 (25.8) | 28.6 (8.2) | 964 (275) | 312 (89) | 146.0 (27.3) | 46.2 (8.7) | 1580 (296) | 517 (97) |
| 19 | 94.2 (32.9) | 29.9 (10.4) | 1010 (352) | 325 (114) | 163.0 (54.3) | 51.8 (17.2) | 1770 (590) | 579 (193) |
| 20 | 59.0 (36.1) | 18.7 (11.5) | 630 (386) | 204 (125) | 99.2 (38.2) | 31.5 (12.1) | 1080 (414) | 352 (135) |
| 21 | 106.0 (59.6) | 33.5 (18.9) | 1130 (637) | 365 (206) | 167.0 (117.0) | 53.0 (37.2) | 1810 (1270) | 593 (416) |
| 22 | 174.0 (111.0) | 55.3 (35.3) | 1860 (1190) | 602 (385) | 227.0 (145.0) | 72.1 (46.0) | 2470 (1570) | 807 (515) |
| 23 | 109.0 (48.0) | 34.7 (15.3) | 1170 (514) | 377 (166) | 153.0 (40.9) | 48.5 (13.0) | 1660 (444) | 543 (145) |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| Mean | 88.5 | 28.1 | 946 | 305 | 133.0 | 42.2 | 1440 | 470 |
| n | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| SD | 25.3 | 8.0 | 270 | 87 | 32.7 | 10.4 | 356 | 117 |
| Min | 53.0 | 16.8 | 566 | 182 | 91.7 | 29.1 | 992 | 324 |
| Max | 174.0 | 55.3 | 1860 | 602 | 227.0 | 72.1 | 2470 | 807 |

## Table E12. Completeness of airflow and emissions data.

**Table E12. Completeness at Site NC2B for September, 2007**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0 | 70.4 | 0 | 33.7 | 0 | 0 | 0 | 65.1 | 0 | 0 | 0 | 0 |
| 25 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
| 26 | 0 | 98.8 | 0 | 98.8 | 0 | 0 | 0 | 90.4 | 0 | 0.1 | 0 | 0.1 |
| 27 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 0 | 98.8 | 0 | 98.8 | 0 | 47.4 | 0 | 98.8 | 0 | 0 | 0 | 0 |
| 29 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 30 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| Mean | 0 | 22.3 | 0 | 21 | 0 | 8.3 | 0 | 21.8 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0 | 40.7 | 0 | 39.7 | 0 | 26 | 0 | 40 | 0 | 0 | 0 | 0 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0.1 | 0 | 0.1 |

**Table E12. Completeness at Site NC2B for October, 2007**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 2 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 3 | 41 | 100 | 41 | 100 | 41 | 100 | 41 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 99.7 | 100 | 99.2 | 100 | 99.2 | 100 | 99.7 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 98.8 | 98.5 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 84.6 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 98.6 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 69.9 | 69.9 | 67.3 | 65.2 | 67.3 | 65.2 | 68.7 | 68.7 | 0 | 0 | 0 | 0 |
| 17 | 70.1 | 70.1 | 67.4 | 65.3 | 67.6 | 65.5 | 70.1 | 70.1 | 0 | 0 | 0 | 0 |
| 18 | 92.6 | 92.5 | 92.6 | 92.5 | 92.6 | 92.5 | 91 | 90.3 | 0.1 | 0.1 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 95.3 | 95.7 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 76.6 | 100 | 76.7 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 89 | 97.3 | 88 | 97 | 88.1 | 97 | 88.7 | 97 | 0 | 0 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 26.5 | 7.8 | 26.7 | 8.9 | 26.7 | 8.8 | 26.5 | 7.9 | 0 | 0 | 0 | 0 |
| Min | 0 | 69.9 | 0 | 65.2 | 0 | 65.2 | 0 | 68.7 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0.1 | 0.1 | 0 | 0 |

**Table E12. Completeness at Site NC2B for November, 2007**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 71.7 | 71.7 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 6 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 63.3 | 100 | 63.3 | 100 | 63.3 | 99.2 | 62.1 | 0 | 0 | 0 | 0 |
| 9 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 10 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 11 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 12 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| 13 | 99.3 | 30.3 | 99.3 | 30.3 | 99.3 | 30.3 | 94 | 30.3 | 0 | 0 | 0 | 0 |
| 14 | 67.2 | 67.2 | 62.6 | 57.8 | 62.8 | 57.9 | 67.2 | 65.3 | 0 | 0 | 0 | 0 |
| 15 | 96.9 | 97.7 | 96.9 | 97.7 | 96.9 | 97.7 | 96.9 | 97.7 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 76.6 | 78 | 100 | 78.1 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 88.3 | 90.3 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 46.5 | 46.5 | 46.5 | 46.5 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 0.9 | 0 | 0.9 | 0 | 95.6 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 54.1 | 54.1 | 54.1 | 54.1 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 97.3 | 97.6 | 0 | 0 | 0 | 0 |
| 28 | 86.5 | 86.4 | 84.9 | 82.8 | 84.9 | 82.8 | 84.7 | 85 | 0 | 0 | 0 | 0 |
| 29 | 13.7 | 13.7 | 11.2 | 9.1 | 11.3 | 9.2 | 13.7 | 13.7 | 0 | 0 | 0 | 0 |
| 30 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 0 | 0 | 0 | 0 |
| Mean | 95.4 | 78.6 | 77.7 | 60.6 | 78.5 | 60.6 | 93.6 | 77.1 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 16.4 | 37 | 36.5 | 43 | 36.7 | 43 | 16.9 | 36.7 | 0 | 0 | 0 | 0 |
| Min | 13.7 | 0 | 0 | 0 | 0 | 0 | 13.7 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for December, 2007**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 98.8 | 98.5 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 97.9 | 98.1 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 60 | 60 | 58.1 | 56 | 58.1 | 56.7 | 60 | 59.3 | 0 | 0 | 0 | 0 |
| 10 | 60.8 | 60.8 | 58.3 | 52 | 58.4 | 52.2 | 57.4 | 57.3 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 97.2 | 97.2 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.9 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 91.7 | 89.8 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 98 | 97.7 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 93.7 | 95.1 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 95.8 | 95.3 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 97.6 | 97.6 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 96 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 31 | 42.1 | 42.1 | 37.2 | 38.5 | 37.2 | 38.5 | 42.1 | 42.1 | 0 | 0 | 0 | 0 |
| Mean | 95.5 | 95.5 | 95.2 | 95 | 95.2 | 95 | 94.4 | 94.4 | 0 | 0 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 13.8 | 13.8 | 14.7 | 15.3 | 14.7 | 15.2 | 13.9 | 14 | 0 | 0 | 0 | 0 |
| Min | 42.1 | 42.1 | 37.2 | 38.5 | 37.2 | 38.5 | 42.1 | 42.1 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for January, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 48.3 | 48.3 | 41.9 | 41.2 | 45.5 | 41.3 | 48.3 | 48.3 | 0 | 0 | 0 | 0 |
| 3 | 63.5 | 63.5 | 61 | 59 | 61.2 | 59.1 | 61.5 | 61.5 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 97.9 | 97.6 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 98.3 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 99 | 98.1 | 0 | 0 | 0 | 0 |
| 9 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 89.4 | 89.4 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 97.7 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 99 | 100 | 99 | 100 | 99 | 100 | 99 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 97.8 | 98.2 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 43.1 | 43.1 | 51.5 | 51.5 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 96.7 | 96.1 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 96.6 | 97.4 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 95.3 | 100 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 96.6 | 94.9 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 23 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 0 | 0 | 96 | 98.5 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 25 | 97.8 | 97.8 | 96.7 | 94.7 | 96.7 | 94.7 | 0 | 0 | 93.6 | 97.8 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 29 | 29 | 26.5 | 24.4 | 26.7 | 24.6 | 0 | 0 | 29 | 29 | 0 | 0 |
| 28 | 99.1 | 99.1 | 78.4 | 99.1 | 99.1 | 99.1 | 0 | 0 | 91.9 | 91.9 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 97.4 | 100 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| Mean | 88.1 | 88 | 87 | 87.4 | 87.8 | 87.4 | 43 | 43.1 | 43.4 | 43.8 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 28.2 | 28.2 | 28.7 | 29 | 28.6 | 28.9 | 46.4 | 46.5 | 46.9 | 47.4 | 0 | 0 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 |

**Table E12. Completeness at Site NC2B for February, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 97.9 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 55.2 | 55.2 | 39.9 | 39.8 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 97.7 | 97.6 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 77.3 | 100 | 76.7 | 86.8 | 95.7 | 99 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 97.2 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 69 | 77.3 | 64.2 | 64.9 | 96.3 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 96.4 | 97.5 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 95.6 | 95.6 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 96.5 | 97.1 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 85.3 | 85.3 | 83.2 | 81.8 | 83.2 | 81.8 | 85.3 | 85.3 | 0 | 0 | 0 | 0 |
| 17 | 21.9 | 21.9 | 19.4 | 17.4 | 19.6 | 17.5 | 21.9 | 21.9 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 94.4 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 96.1 | 96.5 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 94.4 | 98.1 | 0 | 0 | 0 | 0 |
| 22 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 88.1 | 92.8 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.5 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 95.1 | 98 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 91.7 | 100 | 0 | 0 | 0 | 0 |
| 27 | 99.7 | 99.7 | 99.7 | 99.7 | 33.5 | 32.2 | 87.7 | 87.7 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 54 | 51.9 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 96.8 | 96.8 | 94.8 | 95.7 | 90.7 | 90.9 | 82.3 | 83.5 | 11.7 | 11.6 | 0 | 0 |
| n | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| SD | 14.4 | 14.4 | 16 | 15.7 | 20.9 | 21.2 | 32 | 32.5 | 30.9 | 30.6 | 0 | 0 |
| Min | 21.9 | 21.9 | 19.4 | 17.4 | 19.6 | 17.5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 |

**Table E12. Completeness at Site NC2B for March, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96.3 | 0 | 0 | 0 | 0 |
| 4 | 69.9 | 69.9 | 64.9 | 61.5 | 65.1 | 61.6 | 69.9 | 69.9 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 96.5 | 97.8 | 0 | 0 | 0 | 0 |
| 6 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 7.1 | 6.1 | 94.7 | 96.9 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 45.2 | 45.2 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 51.8 | 37.2 | 0 | 0 | 0 | 0 |
| 13 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 51.2 | 43.8 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 97.2 | 97.2 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 38.2 | 38.2 | 0 | 0 | 49.2 | 49.2 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 97 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 95.5 | 96.7 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 99.6 | 97.6 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 97.8 | 97.5 |
| Mean | 99 | 99 | 98.8 | 98.7 | 87.6 | 87.5 | 58 | 57.3 | 0 | 0 | 17.5 | 17.4 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 5.3 | 5.3 | 6.2 | 6.8 | 30.1 | 30.3 | 45.7 | 45.9 | 0 | 0 | 36.6 | 36.3 |
| Min | 69.9 | 69.9 | 64.9 | 61.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 |

**Table E12. Completeness at Site NC2B for April, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 93.2 | 100 | 93.2 | 100 | 93.2 | 0 | 0 | 0 | 0 | 100 | 93.2 |
| 2 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 0 | 0 | 0 | 0 | 94.8 | 99 |
| 3 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 0 | 0 | 0 | 0 | 97.7 | 96.5 |
| 4 | 100 | 96.7 | 100 | 96.7 | 100 | 96.7 | 47.4 | 41.3 | 0 | 0 | 45.8 | 49 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 96.8 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 97.2 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 99.7 | 68.3 | 69 | 68.4 | 69.1 | 99.1 | 98.8 | 0 | 0 | 0 | 0 |
| 10 | 100 | 79.3 | 100 | 79.3 | 100 | 79.3 | 93.1 | 76 | 0 | 0 | 0 | 0 |
| 11 | 100 | 62 | 100 | 62 | 100 | 62 | 93.1 | 62 | 0 | 0 | 0 | 0 |
| 12 | 100 | 81.6 | 100 | 81.6 | 100 | 81.6 | 88.7 | 81.6 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.9 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.4 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 95.5 | 0 | 0 | 0 | 0 |
| 17 | 18.6 | 18.6 | 18.6 | 14.7 | 18.6 | 18.2 | 18.6 | 18.6 | 0 | 0 | 0 | 0 |
| 18 | 67.2 | 28.3 | 64.7 | 23.7 | 64.8 | 23.8 | 67.2 | 28 | 0 | 0 | 0 | 0 |
| 19 | 100 | 65.2 | 100 | 65.2 | 100 | 65.2 | 100 | 65.2 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 99.9 | 100 | 96 | 100 | 99.4 | 99.9 | 99.4 | 0 | 0 | 0 | 0 |
| 22 | 65.1 | 64 | 63.8 | 60.5 | 63.9 | 60.6 | 64 | 63.1 | 0 | 0.1 | 0 | 0.1 |
| 23 | 100 | 97.8 | 100 | 97.8 | 100 | 97.8 | 96.9 | 93.1 | 0 | 0 | 0 | 0 |
| 24 | 100 | 62.7 | 100 | 62.7 | 100 | 62.7 | 100 | 62.7 | 0 | 0 | 0 | 0 |
| 25 | 100 | 67.3 | 100 | 67.3 | 100 | 67.3 | 100 | 67.3 | 0 | 0 | 0 | 0 |
| 26 | 100 | 55.5 | 100 | 55.5 | 100 | 55.5 | 100 | 55.5 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 23.1 | 23.1 | 23.1 | 23.1 | 100 | 100 | 0 | 0 | 0 | 0 |
| 30 | 99.8 | 100 | 0 | 0 | 0 | 0 | 97 | 97.7 | 0 | 0 | 0 | 0 |
| Mean | 95 | 85.7 | 87.9 | 78.3 | 88 | 78.5 | 82 | 73.5 | 0 | 0 | 11.3 | 11.3 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 16.5 | 22.3 | 26.9 | 29 | 26.9 | 28.9 | 32.8 | 33.5 | 0 | 0 | 29.9 | 29.7 |
| Min | 18.6 | 18.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0.1 | 100 | 99 |

**Table E12. Completeness at Site NC2B for May, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 87.2 | 0 | 0 | 0 | 0 | 100 | 87.2 | 0 | 0 | 0 | 0 |
| 2 | 100 | 67.4 | 0 | 0 | 0 | 0 | 100 | 67.4 | 0 | 0 | 0 | 0 |
| 3 | 100 | 62.2 | 0 | 0 | 0 | 0 | 100 | 62.2 | 0 | 0 | 0 | 0 |
| 4 | 100 | 63 | 0 | 0 | 0 | 0 | 100 | 63 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 22 | 22 | 22 | 22 | 99 | 97.8 | 0 | 0 | 0 | 0 |
| 6 | 100 | 75.9 | 100 | 75.9 | 100 | 75.9 | 100 | 75.9 | 0 | 0 | 0 | 0 |
| 7 | 100 | 60.3 | 100 | 60.3 | 100 | 60.3 | 100 | 60.3 | 0 | 0 | 0 | 0 |
| 8 | 100 | 91.1 | 100 | 91.1 | 100 | 91.1 | 100 | 91.1 | 0 | 0 | 0 | 0 |
| 9 | 100 | 59.8 | 100 | 59.8 | 100 | 59.8 | 100 | 59.8 | 0 | 0 | 0 | 0 |
| 10 | 100 | 79.2 | 100 | 79.2 | 100 | 79.2 | 100 | 79.2 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 42.3 | 44.5 | 0 | 0 | 49.9 | 49.9 |
| 13 | 100 | 98.5 | 100 | 98.5 | 100 | 98.5 | 0 | 0 | 0 | 0 | 100 | 98.5 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 15 | 100 | 70.4 | 100 | 70.4 | 100 | 70.4 | 0 | 0 | 0 | 0 | 100 | 70.2 |
| 16 | 100 | 75 | 100 | 75 | 100 | 75 | 0 | 0 | 0 | 0 | 100 | 75 |
| 17 | 100 | 98.8 | 100 | 98.8 | 100 | 98.8 | 0 | 0 | 0 | 0 | 100 | 98.8 |
| 18 | 100 | 79.1 | 100 | 79.1 | 100 | 79.1 | 0 | 0 | 0 | 0 | 100 | 79.1 |
| 19 | 99.5 | 96.3 | 99.5 | 96.3 | 99.5 | 96.3 | 0 | 0 | 0 | 0 | 99.5 | 96.3 |
| 20 | 100 | 79.5 | 100 | 79.5 | 100 | 79.5 | 0 | 0 | 0 | 0 | 99.6 | 79 |
| 21 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 0 | 0 | 0 | 0 | 100 | 99.9 |
| 22 | 100 | 83.9 | 100 | 83.9 | 100 | 83.9 | 0 | 0 | 0 | 0 | 100 | 83.9 |
| 23 | 100 | 87.4 | 100 | 87.4 | 100 | 87.4 | 0 | 0 | 0 | 0 | 100 | 86.2 |
| 24 | 100 | 99.4 | 100 | 99.4 | 100 | 99.4 | 0 | 0 | 0 | 0 | 100 | 99.4 |
| 25 | 100 | 66.9 | 100 | 66.9 | 100 | 66.9 | 0 | 0 | 0 | 0 | 100 | 66.9 |
| 26 | 100 | 59.9 | 100 | 59.9 | 100 | 59.9 | 0 | 0 | 0 | 0 | 100 | 59.9 |
| 27 | 100 | 42.4 | 100 | 42.4 | 100 | 42.4 | 0 | 0 | 0 | 0 | 100 | 42.4 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 45.1 | 42.8 | 0 | 0 | 49.4 | 49.4 |
| 29 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 0 | 0 | 0 | 0 |
| 30 | 100 | 52.3 | 100 | 52.3 | 100 | 52.3 | 100 | 52.3 | 0 | 0 | 0 | 0 |
| 31 | 100 | 29.5 | 100 | 29.5 | 100 | 29.5 | 100 | 29.5 | 0 | 0 | 0 | 0 |
| Mean | 100 | 79.5 | 84.6 | 68 | 84.6 | 68 | 47.9 | 35.9 | 0 | 0 | 51.6 | 43.1 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.1 | 19.1 | 35.3 | 33.4 | 35.3 | 33.4 | 48.3 | 37.9 | 0 | 0 | 48.3 | 41.5 |
| Min | 99.5 | 29.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 |

**Table E12. Completeness at Site NC2B for June, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 99.1 | 98.5 | 99.1 | 98.5 | 99.1 | 98.5 | 96.8 | 96.2 | 0 | 0 | 0 | 0 |
| 3 | 97.5 | 97.2 | 97.5 | 97.2 | 97.5 | 97.2 | 97.5 | 97.2 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 99.2 | 100 | 99.2 | 100 | 99.2 | 100 | 97.3 | 98.1 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 76.6 | 100 | 76.7 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 67.7 | 99.2 | 45.7 | 76.4 | 45.8 | 76.5 | 67.2 | 98.8 | 0 | 0 | 0 | 0 |
| 19 | 71.7 | 100 | 71.7 | 100 | 71.7 | 100 | 71.7 | 100 | 0 | 0 | 0 | 0 |
| 20 | 92.2 | 100 | 92.2 | 100 | 92.2 | 100 | 92.2 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 99.9 | 100 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 0 | 0 | 0 | 0 |
| 24 | 78.7 | 78.8 | 48.1 | 45.3 | 48.2 | 48.2 | 66.6 | 65.6 | 0 | 0 | 0 | 0 |
| 25 | 81.3 | 100 | 81.3 | 100 | 81.3 | 100 | 81.3 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 99.8 | 100 | 99.8 | 100 | 99.8 | 100 | 99.8 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 0 | 0 | 0 |
| 30 | 83.1 | 100 | 83.1 | 100 | 83.1 | 100 | 83.1 | 100 | 0 | 0 | 0 | 0 |
| Mean | 95.7 | 99.1 | 93.1 | 97.2 | 93.1 | 97.3 | 95.1 | 98.5 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 9 | 3.8 | 14.5 | 10.5 | 14.4 | 10.1 | 10 | 6.2 | 0 | 0 | 0 | 0 |
| Min | 67.7 | 78.8 | 45.7 | 45.3 | 45.8 | 48.2 | 66.6 | 65.6 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for July, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 93.6 | 89.9 | 93.6 | 89.9 | 93.6 | 89.9 | 93.6 | 89.9 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 98.8 | 100 | 98.8 | 100 | 98.8 | 100 | 98.8 | 0 | 0 | 0 | 0 |
| 6 | 99.8 | 100 | 99.8 | 100 | 99.8 | 100 | 99.8 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 96.2 | 98.1 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 96.1 | 96.7 | 96.1 | 96.7 | 96.1 | 96.7 | 94.7 | 95.3 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 89.7 | 100 | 89.7 | 100 | 89.7 | 100 | 82 | 94.3 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 67.8 | 100 | 67.8 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 55.8 | 100 | 55.8 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 99.4 | 100 | 99.4 | 100 | 98.2 | 91.2 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 99.9 | 100 | 99.9 | 100 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 30 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 98.8 | 97.9 | 0 | 0 | 0 | 0 |
| 31 | 97.4 | 100 | 97.4 | 100 | 97.4 | 100 | 97.4 | 100 | 0 | 0 | 0 | 0 |
| Mean | 99.2 | 99.5 | 96.8 | 99.5 | 96.8 | 99.5 | 98.7 | 98.9 | 0 | 0 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 2.2 | 1.9 | 9.6 | 1.9 | 9.6 | 1.9 | 3.5 | 2.6 | 0 | 0 | 0 | 0 |
| Min | 89.7 | 89.9 | 55.8 | 89.9 | 55.8 | 89.9 | 82 | 89.9 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for August, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 64.2 | 64.2 | 64.2 | 64.2 | 97.6 | 98.1 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 91.8 | 91.8 | 2.3 | 2.3 | 2.3 | 2.3 | 55.5 | 55.5 | 0 | 0 | 36.4 | 36.4 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 9 | 96.8 | 100 | 96.8 | 100 | 96.8 | 100 | 0 | 0 | 0 | 0 | 96.8 | 100 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 11 | 96.9 | 100 | 96.9 | 100 | 96.9 | 100 | 0 | 0 | 0 | 0 | 96.9 | 100 |
| 12 | 68.3 | 76.9 | 37.3 | 48.7 | 37.4 | 48.8 | 0 | 0 | 0 | 0 | 67 | 73.9 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 14 | 96.8 | 100 | 96.8 | 100 | 96.8 | 100 | 0 | 0 | 0 | 0 | 96.8 | 100 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 18 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 0 | 0 | 0 | 99.9 | 100 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 21 | 99.8 | 99.8 | 99.8 | 72.2 | 99.8 | 76.9 | 0 | 0 | 0 | 0 | 57.9 | 58.4 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 36.7 | 36.7 | 36.7 | 36.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 89 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 58.3 | 58.3 | 58.3 | 58.3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean | 98 | 99 | 80.3 | 80.1 | 80.3 | 80.2 | 21.1 | 21.1 | 0 | 0 | 43.6 | 44.2 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 6 | 4.3 | 35.2 | 34.9 | 35.2 | 34.8 | 39.7 | 39.7 | 0 | 0 | 47 | 47.4 |
| Min | 68.3 | 76.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 |

**Table E12. Completeness at Site NC2B for September, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 75.7 | 98 | 75.7 | 98 | 75.7 | 98 | 75.7 | 98 | 0 | 0 | 0 | 0 |
| 3 | 89.3 | 100 | 89.3 | 100 | 89.3 | 100 | 89.3 | 100 | 0 | 0 | 0 | 0 |
| 4 | 98.1 | 98.1 | 69.4 | 69.4 | 69.5 | 69.5 | 95.8 | 97.3 | 0 | 0 | 0 | 0 |
| 5 | 95.3 | 98.2 | 95.3 | 98.2 | 95.3 | 98.2 | 95.3 | 98.2 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 98.5 | 98.8 | 98.5 | 98.8 | 98.5 | 98.8 | 93.2 | 93.2 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 13 | 96 | 100 | 96 | 100 | 96 | 100 | 96 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 99.3 | 99.8 | 99.3 | 99.8 | 99.3 | 99.8 | 99.3 | 99.8 | 0 | 0 | 0 | 0 |
| 16 | 58.6 | 100 | 58.6 | 100 | 58.6 | 100 | 58.6 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 96.9 | 97.3 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 25 | 99.9 | 99.9 | 99.8 | 99.8 | 99.8 | 99.8 | 99 | 99 | 0 | 0 | 0 | 0 |
| 26 | 99.9 | 99.9 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 99.9 | 0 | 0 | 0 | 0 |
| 27 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 97 | 99.7 | 96 | 98.8 | 96 | 98.8 | 96.6 | 99.4 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 8.6 | 0.6 | 9.9 | 5.5 | 9.9 | 5.5 | 8.5 | 1.4 | 0 | 0 | 0 | 0 |
| Min | 58.6 | 98 | 58.6 | 69.4 | 58.6 | 69.5 | 58.6 | 93.2 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for October, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 99.7 | 100 | 72.2 | 94.8 | 72.3 | 94.8 | 96.7 | 95.7 | 0 | 0 | 0 | 0 |
| 3 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 98.2 | 98.2 | 98.1 | 98.1 | 98.1 | 98.1 | 98.2 | 98.2 | 0 | 0 | 0 | 0 |
| 6 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 0 | 0 | 0 | 0 |
| 7 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 0 | 0 | 0 | 0 |
| 8 | 98.3 | 98.3 | 9.2 | 7.2 | 98.3 | 98.3 | 98.3 | 98.3 | 0 | 0 | 0 | 0 |
| 9 | 98.7 | 98.7 | 50 | 49.3 | 98.7 | 98.7 | 98.7 | 98.7 | 0 | 0 | 0 | 0 |
| 10 | 99 | 99 | 91.7 | 85.6 | 99 | 99 | 99 | 99 | 0 | 0 | 0 | 0 |
| 11 | 97.9 | 97.9 | 10.8 | 17 | 97.9 | 97.9 | 97.9 | 97.9 | 0 | 0 | 0 | 0 |
| 12 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 98 | 0 | 0 | 0 | 0 |
| 13 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 0 | 0 | 0 | 0 |
| 14 | 98.1 | 98.1 | 97.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 0 | 0 | 0 | 0 |
| 15 | 98.9 | 98.9 | 0 | 1.3 | 98.9 | 98.9 | 98.9 | 98.9 | 0 | 0 | 0 | 0 |
| 16 | 99.2 | 99.2 | 0 | 0 | 99.2 | 99.2 | 92.2 | 94.2 | 0 | 0 | 0 | 0 |
| 17 | 98.8 | 98.8 | 0 | 0.1 | 98.8 | 98.8 | 47.5 | 52.5 | 0 | 0 | 35.7 | 35.7 |
| 18 | 98.1 | 98.1 | 0 | 0 | 98.1 | 98.1 | 0 | 0 | 0 | 0 | 98.1 | 98.1 |
| 19 | 98.6 | 98.6 | 0 | 0 | 98.6 | 98.6 | 0 | 0 | 0 | 0 | 98.6 | 98.6 |
| 20 | 98.1 | 98.1 | 0 | 0 | 98.1 | 98.1 | 0 | 0 | 0 | 0 | 98.1 | 98.1 |
| 21 | 98.2 | 98.2 | 0 | 0.6 | 98.2 | 98.2 | 0 | 0 | 0 | 0 | 98.2 | 98.2 |
| 22 | 98.5 | 98.5 | 0 | 0 | 98.5 | 98.5 | 0 | 0 | 0 | 0 | 95.8 | 98.5 |
| 23 | 99.5 | 99.5 | 0 | 0 | 99.5 | 99.5 | 56.1 | 54.3 | 0 | 0 | 40.3 | 40.6 |
| 24 | 98.1 | 98.1 | 0 | 0 | 98.1 | 98.1 | 36.4 | 36.4 | 57.1 | 59.6 | 0 | 0 |
| 25 | 98.1 | 98.1 | 0 | 0 | 98.1 | 98.1 | 0 | 0 | 96.6 | 98.1 | 0 | 0 |
| 26 | 98.1 | 98.1 | 0 | 0 | 98.1 | 98.1 | 0 | 0 | 96.2 | 98.1 | 0 | 0 |
| 27 | 98.4 | 98.4 | 0 | 0 | 98.4 | 98.4 | 0 | 0 | 95.8 | 98.4 | 0 | 0 |
| 28 | 99.6 | 99.6 | 0 | 0 | 99.6 | 99.6 | 0 | 0 | 96.7 | 99.6 | 0 | 0 |
| 29 | 97.8 | 97.8 | 0 | 0 | 97.8 | 97.8 | 0 | 0 | 97.6 | 97.8 | 0 | 0 |
| 30 | 98.5 | 98.5 | 0 | 0 | 98.5 | 98.5 | 56.3 | 57.3 | 37.2 | 38 | 0 | 0 |
| 31 | 98.7 | 98.7 | 0 | 0 | 98.7 | 98.7 | 98.7 | 98.7 | 0 | 0 | 0 | 0 |
| Mean | 98.6 | 98.7 | 36.2 | 37 | 97.8 | 98.5 | 60.2 | 60.4 | 18.6 | 19 | 18.2 | 18.3 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.7 | 0.7 | 45.2 | 45.7 | 4.7 | 0.9 | 44.6 | 44.6 | 36.2 | 36.9 | 36.1 | 36.3 |
| Min | 97.8 | 97.8 | 0 | 0 | 72.3 | 94.8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97.6 | 99.6 | 98.6 | 98.6 |

**Table E12. Completeness at Site NC2B for November, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 98.3 | 98.3 | 0 | 0 | 98.3 | 98.3 | 98.3 | 98.3 | 0 | 0 | 0 | 0 |
| 2 | 98.2 | 98.2 | 0 | 0 | 98.2 | 98.2 | 98.2 | 98.2 | 0 | 0 | 0 | 0 |
| 3 | 98.3 | 98.3 | 0 | 0 | 98.3 | 98.3 | 98.3 | 98.3 | 0 | 0 | 0 | 0 |
| 4 | 98.5 | 98.5 | 0 | 0 | 98.5 | 98.5 | 98.5 | 98.5 | 0 | 0 | 0 | 0 |
| 5 | 97.8 | 97.8 | 0 | 0 | 97.8 | 97.8 | 97.8 | 97.8 | 0 | 0 | 0 | 0 |
| 6 | 98.3 | 98.3 | 0 | 0 | 98.3 | 98.3 | 98.3 | 98.3 | 0 | 0 | 0 | 0 |
| 7 | 97.5 | 97.5 | 0 | 0 | 97.5 | 97.5 | 97.5 | 97.5 | 0 | 0 | 0 | 0 |
| 8 | 97.5 | 97.5 | 0 | 0 | 97.5 | 97.5 | 97.5 | 97.5 | 0 | 0 | 0 | 0 |
| 9 | 97.6 | 97.6 | 0 | 0 | 97.6 | 97.6 | 97.6 | 97.6 | 0 | 0 | 0 | 0 |
| 10 | 99.9 | 99.9 | 0 | 0 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 0 | 0 | 0 |
| 11 | 99.9 | 99.9 | 0 | 0 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 0 | 0 | 0 |
| 12 | 97.4 | 97.4 | 0 | 0 | 97.4 | 97.4 | 97.4 | 97.4 | 0 | 0 | 0 | 0 |
| 13 | 92.7 | 92.7 | 14.7 | 14.7 | 92.7 | 92.7 | 88.8 | 88.5 | 0.1 | 0.1 | 0.1 | 0.1 |
| 14 | 89.4 | 89.4 | 72.6 | 73.3 | 72.7 | 73.4 | 89.4 | 89.4 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 23 | 99.9 | 100 | 75.9 | 76 | 75.9 | 76 | 99.9 | 100 | 0 | 0 | 0 | 0 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 68 | 68 | 68 | 68 | 100 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 88.7 | 88.7 | 44.4 | 44.4 | 86.3 | 86.3 | 88.6 | 88.6 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 29.7 | 29.7 | 47.2 | 47.2 | 29.9 | 29.9 | 29.6 | 29.6 | 0 | 0 | 0 | 0 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0.1 | 0.1 | 0.1 | 0.1 |

**Table E12. Completeness at Site NC2B for December, 2008**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 96.3 | 98.3 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 11 | 98.7 | 98.7 | 78.7 | 98.7 | 98.7 | 98.7 | 93.4 | 92 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 96.2 | 98.8 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 96.9 | 96.6 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 97.6 | 97.6 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 99.9 | 99.9 | 99.3 | 99.9 | 99.9 | 99.9 | 99.4 | 99.5 | 0 | 0 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.4 | 0.4 | 3.8 | 0.4 | 0.4 | 0.4 | 1.6 | 1.6 | 0 | 0 | 0 | 0 |
| Min | 98.3 | 98.3 | 78.7 | 98.3 | 98.3 | 98.3 | 93.4 | 92 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for January, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.6 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 96.9 | 97.1 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 94.2 | 96.3 | 94.2 | 96.3 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 95.6 | 96.9 | 99.2 | 97.1 | 100 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 96.5 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 98.4 | 96.3 | 98.4 | 96.3 | 63.3 | 63.4 | 0 | 0 | 35.4 | 35.4 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 95.6 | 96.9 | 99.2 | 97.1 | 0 | 0 | 0 | 0 | 99.7 | 97.6 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 96.9 | 100 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 99.4 | 99.5 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 100 | 100 |
| 15 | 100 | 100 | 74.5 | 74.5 | 74.7 | 74.7 | 53.1 | 52.6 | 0 | 0 | 42.8 | 44.2 |
| 16 | 100 | 100 | 75.2 | 100 | 75.3 | 100 | 94.7 | 97.2 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 58.3 | 100 | 58.3 | 100 | 58.3 | 100 | 58.3 | 94.7 | 0 | 0 | 0 | 0 |
| 23 | 0 | 100 | 0 | 74.5 | 0 | 74.7 | 0 | 95.4 | 0 | 0 | 0 | 0 |
| 24 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 25 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 26 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 27 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 0 | 97.8 | 0 | 97.8 | 0 | 97.8 | 0 | 97.8 | 0 | 0 | 0 | 0 |
| 29 | 0 | 99.9 | 0 | 71.7 | 0 | 71.9 | 0 | 98.5 | 0 | 0 | 0 | 0 |
| 30 | 55.9 | 100 | 55.9 | 100 | 55.9 | 100 | 53 | 97.2 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| Mean | 68.2 | 93.5 | 66.1 | 90.5 | 66.3 | 90.5 | 52.1 | 77.2 | 0 | 0 | 15.3 | 15.4 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 44.8 | 24.6 | 43.7 | 25 | 43.9 | 25 | 46.3 | 39.2 | 0 | 0 | 33.6 | 33.8 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 100 | 100 |

**Table E12. Completeness at Site NC2B for February, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 73.1 | 100 | 73.3 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 96.8 | 96.9 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 97 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 8 | 82.2 | 71.9 | 82.2 | 71.9 | 82.2 | 71.9 | 82.2 | 71.9 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.4 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96.2 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 97.6 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 94.9 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.7 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 18 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 96 | 96.5 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 99.7 | 99.7 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 96.5 | 96.5 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 97 | 97 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 94.2 | 94.2 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 |
| 26 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 46 | 88.9 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 44.3 | 0 | 0 | 0 | 30 |
| 28 | 98.5 | 100 | 98.5 | 100 | 98.5 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| Mean | 99.3 | 99 | 98.3 | 99 | 98.3 | 99 | 89.5 | 91.9 | 0 | 0 | 0 | 4.6 |
| n | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| SD | 3.3 | 5.2 | 5.9 | 5.2 | 5.9 | 5.2 | 26.9 | 21 | 0 | 0 | 0 | 19.2 |
| Min | 82.2 | 71.9 | 73.1 | 71.9 | 73.3 | 71.9 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 |

**Table E12. Completeness at Site NC2B for March, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 99.3 | 100 | 95.9 | 98.3 | 95.9 | 98.3 | 0 | 0 | 0 | 0 | 0 | 99.3 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 96 | 97.4 | 96.1 | 97.5 | 0 | 0 | 0 | 0 | 0 | 99.2 |
| 4 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 0 | 42.8 | 0 | 0 | 0 | 40.8 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 12 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 0 | 94.7 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 15 | 96.9 | 100 | 96.9 | 100 | 96.9 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 92.8 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 75.2 | 100 | 75.3 | 0 | 95.8 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 77.3 | 76.6 | 77.4 | 76.7 | 0 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 77.4 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 72.3 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 70.3 | 74.5 | 70.5 | 74.7 | 0 | 94.5 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 94.3 | 0 | 0 | 0 | 0 |
| Mean | 96.5 | 96.6 | 94.6 | 94.1 | 94.6 | 94.1 | 0 | 85.9 | 0 | 0 | 0 | 7.7 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 17.6 | 17.7 | 18.4 | 18.6 | 18.4 | 18.6 | 0 | 30.3 | 0 | 0 | 0 | 25.1 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 99.3 |

**Table E12. Completeness at Site NC2B for April, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 37.7 | 0 | 0 | 0 | 41.1 |
| 3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 0 | 0 | 0 | 0 | 0 | 99.4 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 98.8 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 10 | 98.7 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | 0 | 48.3 | 0 | 0 | 0 | 38.3 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 97 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 18 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 99.9 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 96.6 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98.1 | 0 | 0 | 0 | 0 |
| Mean | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 72.6 | 0 | 0 | 0 | 25.9 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0 | 42.4 | 0 | 0 | 0 | 41.9 |
| Min | 98.7 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 100 |

**Table E12. Completeness at Site NC2B for May, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 2 | 71.6 | 71.6 | 68.1 | 64 | 68.3 | 64.1 | 0 | 71.6 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 99.2 | 100 | 99.2 | 100 | 99.2 | 0 | 99.2 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 96 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 8 | 98.5 | 98.5 | 96.3 | 92.8 | 96.3 | 92.8 | 0 | 98.5 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 97.5 | 96.1 | 97.6 | 96.3 | 0 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98.6 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 85.1 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 85.5 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 96.3 | 98.4 | 96.3 | 98.4 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 99 | 96.9 | 99.1 | 97 | 0 | 98.5 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| Mean | 92.6 | 92.6 | 92.2 | 91.9 | 92.2 | 91.9 | 0 | 91.4 | 0 | 0 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 24.8 | 24.8 | 24.9 | 25 | 24.9 | 25 | 0 | 24.7 | 0 | 0 | 0 | 0 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |

**Table E12. Completeness at Site NC2B for June, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 48.8 | 0 | 0 | 0 | 47.3 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 9 | 99.6 | 99.3 | 99.6 | 99.3 | 99.6 | 99.3 | 0 | 0 | 0 | 0 | 0 | 99.3 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 44.9 | 0 | 0 | 0 | 51.1 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 96.5 | 0 | 0 | 0 | 0 |
| 19 | 98.9 | 100 | 98.9 | 100 | 98.9 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98.6 | 0 | 0 | 0 | 0 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| Mean | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 76.3 | 0 | 0 | 0 | 23.3 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0 | 40.3 | 0 | 0 | 0 | 40.2 |
| Min | 98.9 | 99.3 | 98.9 | 99.3 | 98.9 | 99.3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 100 |

**Table E12. Completeness at Site NC2B for July, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 97.5 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 99.9 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 9 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 0 | 96.1 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 17 | 99.9 | 100 | 99.9 | 100 | 99.9 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 60.5 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 68.7 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 99.5 | 0 | 0 | 0 | 0 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 59 | 0 | 35.1 | 0 | 0 |
| 25 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 | 0 | 0 |
| 26 | 99.7 | 100 | 99.7 | 100 | 99.7 | 100 | 0 | 0 | 0 | 100 | 0 | 0 |
| 27 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 | 0 | 0 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 100 | 0 | 0 |
| 29 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 98.7 | 0 | 0 |
| 30 | 100 | 100 | 100 | 97.4 | 100 | 97.4 | 0 | 0 | 0 | 100 | 0 | 0 |
| 31 | 100 | 100 | 100 | 93 | 100 | 93 | 0 | 0 | 0 | 100 | 0 | 0 |
| Mean | 100 | 100 | 100 | 99.7 | 100 | 99.7 | 0 | 70.4 | 0 | 23.7 | 0 | 0 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.1 | 0 | 0.1 | 1.3 | 0.1 | 1.3 | 0 | 42.9 | 0 | 41.6 | 0 | 0 |
| Min | 99.7 | 99.8 | 99.7 | 93 | 99.7 | 93 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 100 | 0 | 0 |

**Table E12. Completeness at Site NC2B for August, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 4.7 | 100 | 4.7 | 0 | 0 | 0 | 100 | 0 | 0 |
| 2 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| 3 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| 4 | 98.6 | 100 | 98.6 | 0 | 98.6 | 0 | 0 | 0 | 0 | 100 | 0 | 0 |
| 5 | 100 | 99.9 | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 99.9 | 0 | 0 |
| 6 | 100 | 100 | 100 | 58 | 100 | 58 | 0 | 0 | 0 | 59 | 0 | 0 |
| 7 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 98.9 | 98.7 | 98.9 | 98.7 | 98.9 | 98.7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 99.3 | 100 | 99.3 | 100 | 99.3 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 100 | 98.6 | 100 | 98.6 | 100 | 98.6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 38.8 | 38.1 | 39.4 | 41.8 | 0 | 28.5 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 58.4 | 57.7 | 58.5 | 57.8 | 0 | 100 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 20 | 99.8 | 99.8 | 72.1 | 74.2 | 72.2 | 75 | 0 | 59.8 | 0 | 0 | 0 | 33.5 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 22 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 23 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 24 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 25 | 100 | 97.8 | 100 | 97.8 | 100 | 97.8 | 0 | 0 | 0 | 0 | 0 | 97.8 |
| 26 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 100 |
| 27 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 0 | 56.7 | 0 | 0 | 0 | 37.6 |
| 28 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 29 | 99.1 | 100 | 99.1 | 100 | 99.1 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 30 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 31 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| Mean | 99.8 | 99.8 | 95.6 | 78.3 | 95.7 | 78.5 | 0 | 24 | 0 | 18 | 0 | 21.6 |
| n | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| SD | 0.4 | 0.5 | 13.5 | 37.1 | 13.4 | 36.9 | 0 | 40 | 0 | 37.4 | 0 | 39.2 |
| Min | 98.6 | 97.8 | 38.8 | 0 | 39.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 100 | 0 | 100 |

**Table E12. Completeness at Site NC2B for September, 2009**

| Day | Airflow | | Ammonia | | Hydrogen Sulfide | | $PM_{10}$ | | $PM_{2.5}$ | | TSP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 | H3 | H4 |
| 1 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 91.9 | 0 | 0 | 0 | 0 |
| 2 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 3 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 99.9 | 0 | 0 | 0 | 0 |
| 4 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 5 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 6 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 7 | 93.5 | 97.5 | 93.5 | 97.5 | 93.5 | 97.5 | 0 | 94.4 | 0 | 0 | 0 | 0 |
| 8 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 99.1 | 0 | 0 | 0 | 0 |
| 9 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98.8 | 0 | 0 | 0 | 0 |
| 10 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 11 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 98.9 | 0 | 0 | 0 | 0 |
| 12 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 13 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 14 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |
| 15 | 100 | 100 | 74.9 | 76.3 | 100 | 100 | 0 | 39.5 | 0 | 0 | 0 | 0 |
| 16 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 99.5 | 99.5 | 99.5 | 77.3 | 99.5 | 99.5 | 0 | 61 | 0 | 0 | 0 | 0 |
| 23 | 100 | 100 | 84.7 | 84.7 | 84.7 | 84.7 | 0 | 100 | 0 | 0 | 0 | 0 |
| 24 | 0.1 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean | 76.4 | 76.6 | 75.1 | 74.5 | 75.9 | 76.1 | 0 | 52.8 | 0 | 0 | 0 | 0 |
| n | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| SD | 42.2 | 42.2 | 41.7 | 41.6 | 42 | 42 | 0 | 47.7 | 0 | 0 | 0 | 0 |
| Min | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Max | 100 | 100 | 100 | 100 | 100 | 100 | 0 | 100 | 0 | 0 | 0 | 0 |