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EMISSIONS DATA FROM THREE SWINE FINISHING BARNS IN NORTH CAROLINA

Final Report for Site NC3B

of the

National Air Emissions Monitoring Study

Submitted to

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1. INTRODUCTION AND OBJECTIVES

1.1. Overview of NAEMS

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 barn monitoring sites and ten open source sites in the continental US.

The NAEMS was managed by Purdue University (Purdue), in its role as Independent Monitoring Contractor for 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 at this site. 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 (VOC) from a swine finishing facility in North Carolina. 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

The farm consisted of nine 800-hd finishing barns (Figure 1) and a lagoon, and was constructed in 1996. The farm was located in a relatively flat area comprised of fields and wooded land. There was a group of 3 or 4 other swine operations, averaging 8-10 barns and one lagoon each, centered in a cluster about 1.1 km southwest of the farm.

The farm had a capacity of 7,200 head, which was divided among nine 50 m x 12.5 m barns that were oriented west-southwest to east-northeast (following a creek line) and separated by a distance of 12 m (Figure 1).

2.2. Monitored Buildings

Emission monitoring was conducted at barns 1, 2 and 3. Barns 1-3 were oriented west-southwest to east-northeast. The distance between the barns was 12 m. Each finisher barn was 50 m long x 12.5 m wide with sidewall heights of 3.4 m. Pens were separated by solid metal panel gating. Well water was dispensed to the pigs by cup waterers.

The finishing barns were all tunnel-ventilated, with each barn controlled individually. All of the ventilation fans and fan controllers were manufactured by Aerotech Ventilation Systems (Mason, MI). There were five single-speed ventilation fans in the east-northeast wall of each barn, including two 91-cm Aerotech Advantage fans (Model AT36Z1CP), and three 122-cm Advantage fans (Model AT481Z1CP). Each barn was ventilated in five ventilation stages, with each stage controlling a single fan. The numbering scheme shown in Figure 2 and 3 reflects the stage numbers. The first two stages controlled the two 91-cm fans, while the three 122-cm fans were controlled by stages 3 through 5. The producer operated the stage-one fan with a timer to decrease the ventilation rate in cold weather when the barn was newly stocked with young pigs. The on/off cycle in this case was temperature-dependent, with timer control in 10-min intervals.

Each finishing barn had curtain sidewalls that were raised during normal operation. The sidewall curtains had a safety switch that automatically lowered the sidewall curtains in case of power failure. Air entered the barn through eave baffles above the sidewall curtains during most of the year. With warmer temperatures, tunnel ventilation was activated by opening a 12-m long curtain at the WSW end of the barn, the opposite end of the tunnel fans. At the start of the project, the sidewall baffles (16 per side, 32 per barn) were adjusted according to season. They were closed in summer during tunnel ventilation, and open in cooler weather to facilitate crossflow ventilation. In mid-2009, the eave baffles were exchanged with independent units that respond only to the negative pressure in the barn and operate during all seasons of the year.

The finishing barns had concrete slatted floors with metal panels. The manure was stored in a 0.9-m pit located underneath each barn. The barn pits were emptied weekly, transferring the manure into an anaerobic lagoon that was located at the northeast side of the barns. The pit was recharged (0.1 to 0.5 m deep) with lagoon water.

2.3. Significant Events and Modifications

Tropical Storm Hanna passed through the area on 9/4/08, and knocked out power to the site for four days, during which no data was collected.

The site was exposed to smoke from a large wildfire June 1-15, 2008 which influenced inlet PM measurements.

The farm was shut down and evacuated in mid-January of 2008 to eliminate a dysentery outbreak. Hogs were loaded back into all three barns in early March.

Barns were empty May 7-25, 2009, during which the producer analyzed sludge depths in the barn, and replaced manually adjusted ventilation baffles with passively-controlled plastic baffles.

The overhead connection to a feed bin in barn 2 was broken by hogs on or about 7/5/08, resulting in about 5,000 kg of feed being dumped onto the floor. Farm staff removed feed above the floor and feed in the pit was removed using a high pressure water hose. A substantial amount of fresh water flowed into the pit with the pit plug pulled to facilitate drainage and removal of feed.

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The ventilation scheme remained the same throughout the study. Site personnel alerted farm personnel when the monitoring system indicated that fans malfunctioned.

Barn 1 was completely empty on 1/12/08-3/2/08, 7/24/08-8/3/08, 12/23/08-12/28/08, 5/7/09-5/23/09, and 10/7/09-10/18/09. Barn 2 was empty on 1/18/08-3/2/08, 7/29/08-8/3/08, 12/22/08-12/28/08, 5/14/09-5/30/09, and 10/15/09-10/18/09. Finally, the empty periods for Barn 3 were 1/18/08-3/9/08, 8/7/08-8/10/08, 12/22/08-12/30/08, 5/19/09-6/3/09, and 10/15/09-10/25/09. The longer empty periods in early 2008 were due to the dysentery outbreak and its subsequent cleanup.

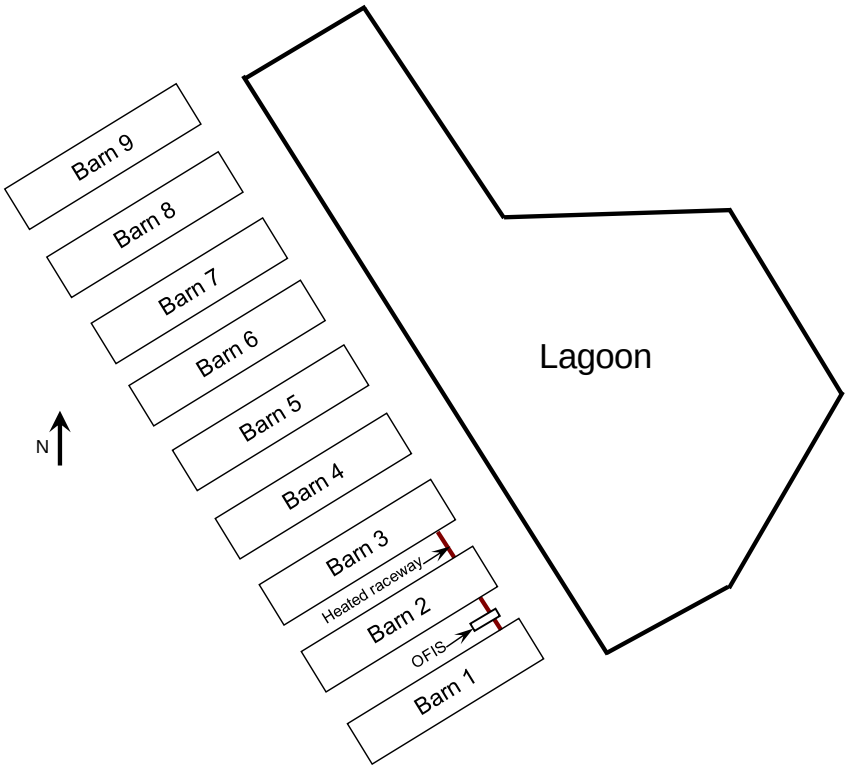

Figure 1. Facility layout. Monitored buildings were barns 1, 2 and 3.

3. MONITORING AND SAMPLING METHODS

3.1. General Approach

Aerial emissions monitoring was conducted in finishing barns 1, 2 and 3. Equipment installation and preliminary testing began on 8/24/07, and was completed on 12/27/07. The site setup and equipment installation followed an approved site monitoring plan, a quality assurance project plan, and instrument or method-specific standard operating procedures.

The monitoring period began on 12/4/07 and concluded on 1/13/10. Target pollutants 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. The monitoring schemes for the three buildings are shown in Figures 2 and 3. Table 1 lists the major instruments used in the test, including the models, manufacturers and serial numbers.

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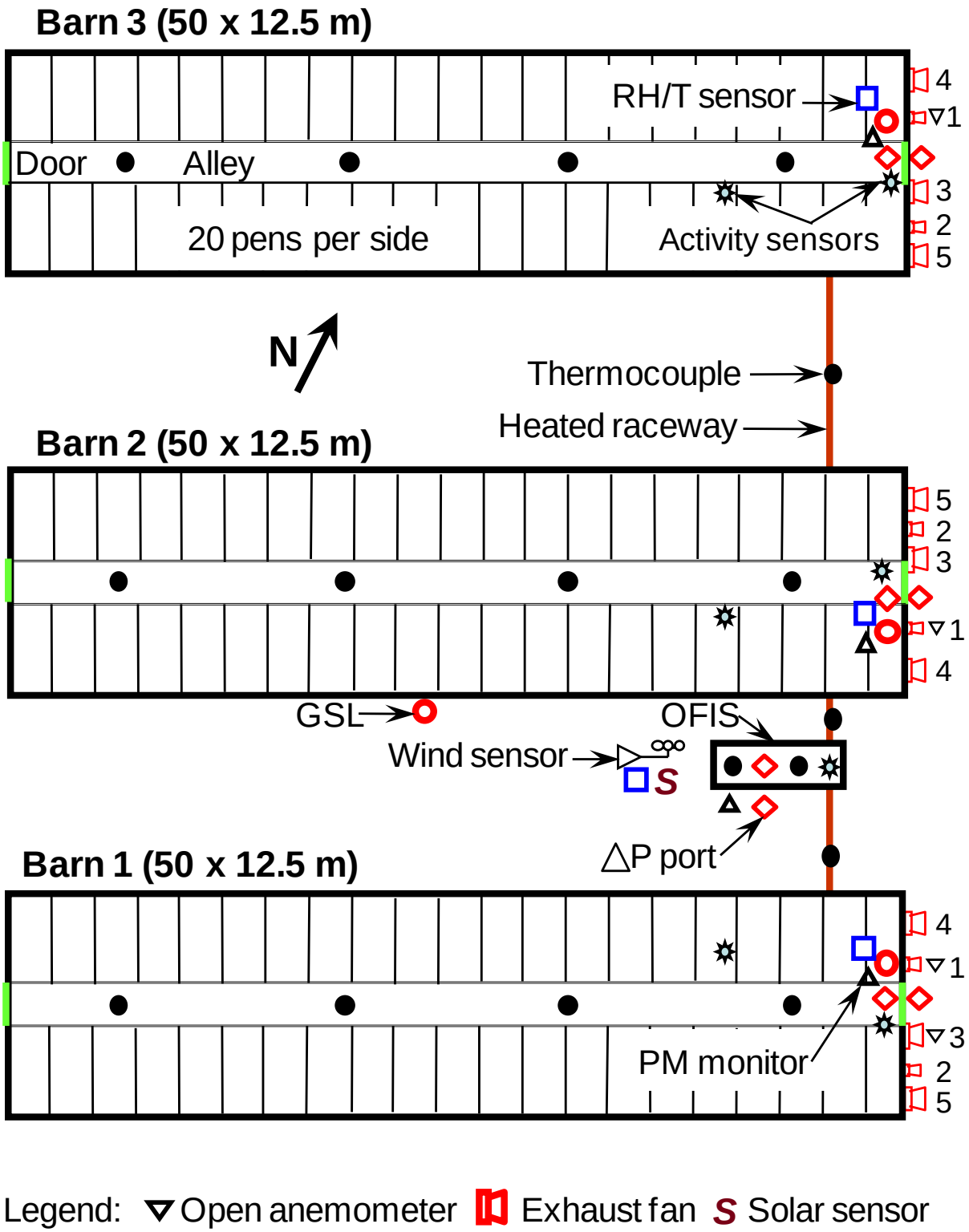

Figure 2. Overhead view of sampling and measurement locations.

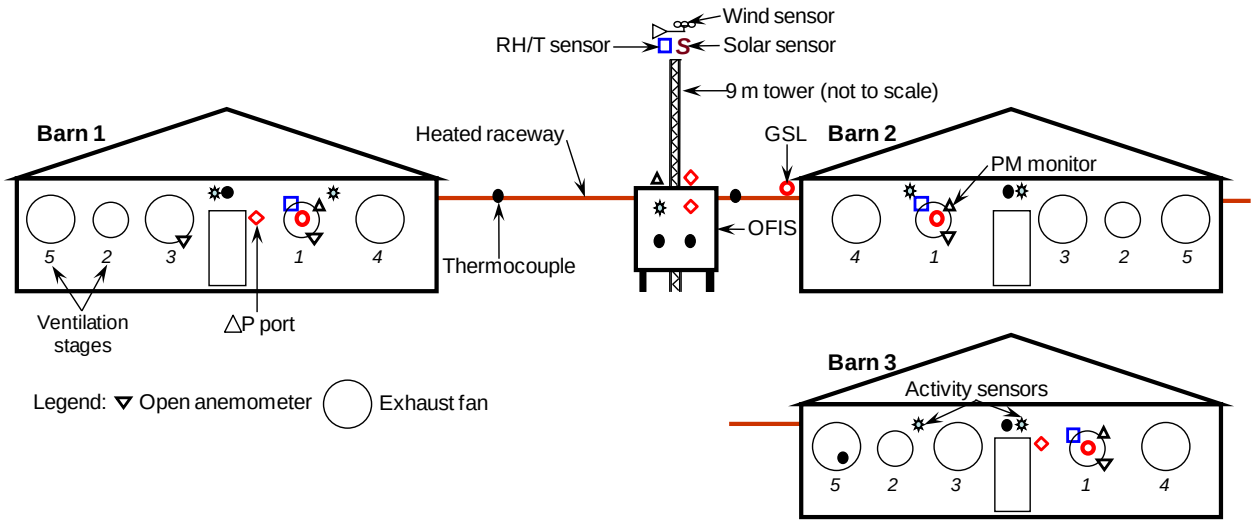

Figure 3. End view of sensor and air sampling locations.

Table 1. Major instrumentation.

Analyzer/Instrument	Serial number
INNOVA 1412 Multi-gas analyzer	710-207
TEI 450i H2S analyzer	709220682
Environics 4040 dilutor	3914
TEOM 1	264580612
TEOM 2	264690612
TEOM 3	265080701
TEI FH 62C14 (Beta Gauge)	E-1293

3.2. Instrument Shelter

The on-farm instrument shelter (OFIS) was located between barns 1 and 2, toward the east end of the barns and offset towards barn 2. Heated raceways were used to connect the OFIS with the monitored barns, to avoid condensation in sampling lines during cold weather. One 12-m raceway connected barn 3 to barn 2, and a short raceway (approximately 2.5 m) connected barn 2 to the OFIS. On the opposite side of the OFIS, a raceway of approximately 7 m connected the OFIS with barn 1. The tubing in the conduits was insulated and heated for additional protection against condensation, along with the full lengths of all sampling lines inside all three barns. The raceway temperatures were monitored continuously.

The OFIS was supplied with 240 VAC electric power on 8/24/07 by the farm. The analyzers, computer, GSS, TEOM vacuum pumps, and data acquisition system in the OFIS obtained electrical power from the farm. 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

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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, respectively. One set of gas analyzers (Table 1) in the OFIS measured gas concentrations as the gas sampling system (GSS) sequenced through all the gas sampling locations (GSLs). 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 2) were selected and configured to acquire data for all the on-line measurement variables (Appendix A).

Table 2. Data acquisition hardware configuration for NC3B.

Manufacturer and model	I/O type	# units	# channels	Notes
NI FP-AI-112	Analog input	4	16	Single-ended, 16-bit
NI FP-TC-120	Thermocouple	3	8	
NI FP-DO-401	Digital output	2	16	2 A at 10-30 VDC
MC USB 4303 counter	Count input	4	10	
MC USB DIO 96H	Digital input	1	96	

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) gas sampling system 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 fan stage 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 counters.

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.

3.4. Monitoring and Recording Farm and Building Operation

3.4.1. Animal Husbandry and Building Systems

Two infrared motion sensors (activity sensors) were mounted to ceilings of each of the finishing rooms to monitor movements of pigs and workers. An activity sensor was used to monitor researcher presence in the OFIS.

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Data on animal inventory and mortalities were recorded manually on a daily basis by the producer, and provided to site personnel. Animal inventory was determined by comparing on-farm inventory records and sales reports. The sales reports usually contained information such as the date, packing plant name, number of pigs delivered to the plant, and total weight of each truck load. Average nursery pig weights were also provided by the farm.

If the number sold at the end of a growth cycle, plus documented mortalities during the rotation, differed from the initial count by more than 2, and the difference couldn't be reconciled using interim counts by NCSU, the initial incoming count was changed to match the outgoing plus mortalities. This was done on the assumption that outgoing (sold) counts would be more accurate than those at stocking. Since mortalities were only recorded weekly, interpolation was used to spread the mortalities for a given week across the entire week. Stocking was assumed to begin at 6 AM and end at noon, with interpolation across that 6-h interval. Run-outs were assumed to start at 6 AM and end at 8 PM, with interpolation across that 14-h interval.

Each room was divided into subgroups of pigs according to truck loads, because each load had a specific date and average weight. A growth curve was applied to estimate the weight gain per week, for each pig subgroup, following the "standard" growth rate given in the MWPS-8, Swine Housing and Equipment Handbook (MWPS 1983). For each subgroup, the curve was fitted to the beginning and final weights to estimate the daily weight gain (in percentage with respect to the final weight and age). The average pig weights were estimated based on daily gains of each subgroup, while the total inventory and total weight were the summation of each subgroup within the room. Weekly mortality records were also included in this calculation. The calculated average pig weight within the room was used to estimate unknown weights, because mortalities were not weighed when removed from the rooms.

3.4.2. Thermal Environment

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 mounted on a 9-m tilt tower located just WSW of the OFIS.

The RH/T sensors did not operate properly until 4/5/08. Therefore, relative humidity and temperature data from the "Weather Underground" website (http://www.wunderground.com/) for a weather station that was about 45 km north of the site were used for this period. The validity of this substitution was tested by comparing the weather station data for April 5-30, 2008 with the site ambient data. The agreement between the two data sets was excellent (data not shown), which proved that the substitution was valid.

For the room environment conditions, RH/T probes were located at the PREF in each room. Type T thermocouples (TCs) were placed in the center of each barn, spaced evenly along the long axis, to measure inside temperature.

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Thermocouples were also located in the heated raceways and in the OFIS near the instrument racks. Two TCs were located in the OFIS to measure the temperature of the OFIS and the temperature-controlled TEOM tubing bundle. One TC monitored the temperature conditions in the inlet PM monitor enclosure.

3.4.3. Building Airflow

Fan operation was monitored in two ways. The first consisted of mounting magnetic Hall-effect sensors (hereafter referred to as speed sensors) on every fan in barns 1-3. Magnets used with the Hall-effect sensors were mounted on the fan pulleys of the 122-cm fans, and directly on a fan blade for the 91-cm fans to detect the rotational speed in revolutions per minute (rpm). The digital signal from the speed sensor was converted into a frequency measurement with a counter module in the data acquisition system. The second means of monitoring fan operation was through current sensors which were installed in the power cord of each fan motor. Outputs from both sets of sensors were monitored by the data acquisition system. Impeller anemometers were placed downstream of each of the 92-cm PREF fans, along with one of the stage-3, 122-cm fans in barn 1 (Figures 2 and 3).

Static pressure differences were measured across the east-northeast end wall of each barn with differential static pressure sensors (Model 260, Setra Systems, Boxborough, MA). The outside port was located against the outside wall near the ventilation fans of the end walls. Static pressure in the OFIS was measured with the same type of sensor, to ensure that positive pressure was maintained.

In-situ airflow measurements were conducted at the inlet side of each fan with a 122-cm field-portable fan tester (Fan Assessment Numeration System or FANS, University of Kentucky, Lexington, KY) (Gates et al., 2004). The static pressure sensors were calibrated prior to the tests. During the first test, a five-point ΔP range was run to cover the range of operating pressures from 0 to -45 Pa or greater on each fan in barns 1, 2, and 3. During the second test, which was characteristic of winter operations, the tests were restricted to the 91-cm fans across three ΔP points which defined the normal winter (cold season) operation of the barns.

A total of two groups of *in-situ* fan tests with replication were conducted during: 1) October and November, 2009, and 2) February, 2010. Each of the wall fans was tested at least twice with the FANS. A total of 276 individual FANS runs were conducted, split evenly between the 91-cm and 122-cm fans.

All *in-situ* fan test data points for a single fan, which were within ±5 rpm and ±3 Pa, were averaged together, and used as single data points. This was done to avoid biasing the airflow curves with multiple, essentially identical, data points from the same fan. Data points which differed by more than 5 rpm and/or 3 Pa were retained as distinct points. This left a total of 48 and 51 points for the 121-cm and 91-cm fans, respectively. The field data was used to develop equations for calculating airflow as a function of differential pressure and fan rotational speed (both taken from AirDAC), and to assess the uncertainty in airflow predictions.

The airflow curves of the 91-cm and 122-cm diameter wall fans were obtained from the Bioenvironmental and Structural Systems (BESS) Lab at the University of Illinois at Urbana-

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Champaign (Tests #4089 and #6260). Each performance record consisted of airflow (Q1) measured at several static pressures (P1), and at normalized constant speeds (N1) of 849 and 576 rpm for the 91-cm and 122-cm diameter fans, respectively.

For each fan type, the BESS fan curve was adjusted to the mean speed (N2) of the fan tests. The mean speeds were 555 and 846 rpm for the 91-cm and 122-cm diameter wall fans, respectively. 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 ΔP_4 and N_4 are measured fan static pressure and speed. For a given test using the portable tester, the model is $Q_4 = k\cdot(a\cdot\Delta P_3 + b)\cdot(N_3/N_2)\cdot Q_2$, where ΔP_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 sum of square differences between Q_4 and Q_3 for all the valid fan tests within a speed regime. The resulting fan models are shown in Table 3.

Table 3. Fan airflow models.

Fan dia, cm	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
122	555	2E-05	1.03E-03	6.97E-02	1.13E+01	3E-03	0.933
91	846	-5.930E-06	2.0E-04	3.22E-02	5.21E+00	2E-03	0.037

3.4.4. Biomaterials Sampling Methods and Schedule

All analyses of biomaterials were conducted by either an independent laboratory (Midwest Laboratories, Omaha, NE) or by NCSU.

Water was evaluated based on analyses of three samples of the well water provided to the pigs, which was sampled on 6/2/09, 9/17/09 and 12/2/09 (Appendix E). Water usage for the whole farm was monitored with a single gauge.

A total of 49 feed samples were collected, with approximately 10 feed samples representing each of five feed formulations used at the farm. The samples were analyzed by NCSU, with results provided in Appendix D.

Manure in the barns was sampled multiple times from 2/15/09 to 6/10/09 (Appendix E) to determine pH, solids content, ammoniacal N, and total N.

3.5. Particulate Matter Monitoring

Real-time PM monitors (TEOM Model 1400a, Thermo Fisher Scientific, Waltham, MA) continuously sampled exhaust PM. A TEOM was placed in an empty pen of each finishing room, about 2 m in front of the inlet of fan 1, which was the PREF (Figure 2, Table 5).

A beta attenuation PM monitor (Beta Gauge Model FH62C-14, Thermo Fisher Scientific, Franklin, MA) continuously measured barn inlet PM concentration. The Beta Gauge was located on top of the OFIS (Figure 3). The closest barn fans (barn 2) with respect to the Beta Gauge inlet were approximately 10 m away to the NNE (Figure 2). The closest approach of the unpaved

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service road that circled the barns to the inlet for the Beta Gauge was approximately 20 m to the north-east. Infrequent vehicle traffic, mowing activities, and farm machinery in a nearby field could have caused "spikes" of measured inlet PM.

At any one time, the PM size class sampled at both TEOMs and the Beta Gauge was either PM_{10}, $PM_{2.5}$ or TSP. The $PM_{2.5}$ size class was sampled for five, 4-15 d periods that were spread over all four seasons and at different times during the pig growth cycles (Table 4). The TSP inlet heads were placed on the TEOMs for six, 5-24 d periods that covered all four seasons and different times of the pig growth cycles. The PM_{10} concentration was measured at all other times.

Table 4. Sampling schedule for PM_{10}, TSP and $PM_{2.5}$.

Time and day, m/d/y		Test duration, d		
Start	**Stop**	**PM_{10}**	**TSP**	**$PM_{2.5}$**
12/4/07	5/31/08	179.5		
5/31/08	6/7/08		6.9	
6/7/08	6/15/08			8.0
6/15/08	10/5/08	112.1		
10/5/08	10/19/08			13.9
10/19/08	2/22/09	126.1		
2/22/09	2/27/09		5.1	
2/27/09	4/4/09	35.8		
4/4/09	4/19/09			15.0
4/19/09	4/25/09	6.0		
4/25/09	5/3/09		7.9	
5/3/09	6/21/09	49.1		
6/21/09	6/27/09		6.0	
6/27/09	7/26/09	28.9		
7/26/09	8/8/09			13.2
8/8/09	8/27/09		19.0	
8/27/09	11/28/09	93.0		
11/28/09	12/2/09			4.0
12/2/09	12/26/09		24.0	
12/26/09	1/1/10	5.5		

3.6. Continuous Gas Sampling and Monitoring

Air samples for continuous gas measurements were collected from multiple gas sampling probes (Table 5) with a custom-designed gas sampling system (GSS). Each probe was connected to the GSS with Teflon tubing. The sampling lines were heated and wrapped with insulation at locations vulnerable to cold air to prevent condensation inside the tubes.

For each of the finishing barns, a gas sampling probe was located 2 m in front of the inlet of fan 1, at the same height as the fan hub (Figure 3). Inlet gas concentrations were sampled at the baffled inlet of the south sidewall of barn 2, close to the midpoint of the barns' long axis.

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Each exhaust location was sampled individually for 10 min. The ventilation inlet location was monitored at least twice daily, with a 30-min sampling period.

Table 5. Analyte sampling locations.

Analyte(s)	Stream ID	Sampling location*	Sampling period, min
Gas (NH_3, H_2S, CO_2)	GSL A	Barn 1 Fan 1, 2 m from the hub	10
	GSL B	Barn 2 Fan 1, 2 m from the hub	10
	GSL C	Barn 3 Fan 1, 2 m from the hub	10
	GSL D	Inlet: B2 south sidewall near midpoint	30
$PM_{2.5}$, PM_{10}, TSP	B1, B2, B3	TEOM located 2 m in front of fan 1	Continuous
	Inlet	Inlet: Beta-Gauge on OFIS roof top	Continuous
VOC**	B1, B2, B3	2 m in front of Fan 1	1440

*Gas sampling probes were located at fan hub height, suspended from the ceiling.
** VOC samples were collected at fan hub height, within a 2-m radius of the fan.
GSL: Gas sampling location
OFIS: On farm instrument shelter

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 (Model 450i, 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, Ballerup, Denmark).

3.7. VOC Sampling and Analysis

Grab samples of VOC were collected at the PREFs (fan 1 each room) (Table 5), 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 4/24/09 and 12/26/09, 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.

The tube 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

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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 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.

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

NCSU 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 82 and 142 visits were made during years 1 and 2 of the monitoring period. Remote connection to the site computer was conducted to check the monitoring was conducted during the majority of the monitoring period. Data files and correspondence were emailed from the site computer on a regular basis.

The NAEMS Science Advisor audited the site on 11/15/07. The Environmental Protection Agency (EPA) conducted site audits on 2/10/09 and 1/8/10.

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 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 -70,000 Pa or 0.31 atm. Preliminary tests indicated that GSS flows under dead-head conditions that were 10% or less ($<0.45\ L\cdot min^{-1}$) of the normal GSS flow rate of $4.5\ L\cdot min^{-1}$ were indicative of leak-free operation under normal GSS manifold vacuums of -4,000 to -10,000 Pa (0.90-0.96 atm). Leak tests of the GSS were conducted 17 times. The dead-head leakage flows were always less than the $0.45\ L\cdot min^{-1}$ threshold, except for times when the pump diaphragm was found to be damaged, and was rebuilt. Systematic checking of individual sampling lines was conducted on 11/15/07, 5/2/08, 1/18/09 and 11/6/09. Data was only

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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 Concentrations

A multipoint calibration (MPC) was conducted through the barn 1 challenge line 12 times using purified air (Cat. # AIO.OCE-T, CEM zero-grade, Praxair, Indianapolis, IN) and four to five span concentrations of NH_3 (Cat. # NI-AM5MP-AS, Praxair Primary Standard). Each MPC was conducted with replication. The NH_3 was delivered using a 6-port gas dilutor (Model 4040, Environics, Tolland, CT). The R^2 values of each MPC exceeded 0.999, indicating linearity of instrument response to standard gas between 0 and 44 ppm (Table 6).

Table 6. Multipoint calibration record and results for the NH_3 measurements.

Date	# of points	Span concentration, ppm		R^2
		Minimum	Maximum	
11/29/07	5	14.1	43.7	0.9995
5/13/08	5	14.1	43.7	0.9994
8/8/08	6	5.44	39.7	0.9997
9/11/08	6	5.44	39.7	0.9999
11/4/08	6	5.44	39.7	0.9997
12/28/08	6	5.44	39.7	0.9996
3/8/09	6	5.44	39.7	0.9998
4/22/09	6	5.44	39.7	0.9997
5/15/09	6	5.44	39.7	0.9995
5/30/09	6	5.44	29.8	0.9991
10/11/09	6	5.44	29.8	0.9993
12/12/09	6	5.44	29.8	0.9998

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 were conducted with 14.9 ppm of NH_3.

Significant downtime occurred due to equipment (chopper motor) failure, from 10/18/08 to 11/2/08 and from 12/2/08 to 12/27/08.

The average response of the analyzer to the zero and span gas applications (Appendix C) was assessed, and the results were combined based on changes to the instrument or gas sampling system to create time-weighted linear correction models (Table 7). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table 7).

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Table 7. Concentration correction and measurement accuracy for ammonia.

Start/end dates	# of checks		Linear model	Accuracy, % of span			
				Bias		Precision	
	Zero	Span		z	s	z	s
12/4/07-5/15/08	9	6	y = 1.035x - 0.21	0.4	0.0	1.5	0.6
5/13/08-10/5/08	18	18	y = 1.0876x - 0.33	-0.2	-0.2	1.2	1.2
10/5/08-1/13/10	48	49	y = 1.0493x - 0.32	0.0	0.2	1.3	2.1
All	75	73					

3.8.3.2. Correction of Hydrogen Sulfide Concentration

An MPC was conducted through the challenge line 15 times using purified air (Cat. # AIO.OCE-T, Praxair CEM zero air) and three to eight span concentrations (Cat. # NI-HSR1E-AS, Praxair EPA Protocol Standard). Except for 9/10/07, each MPC was conducted with replication (Table 8). The H_2S was delivered using a 6-port dilutor (Model 040, Environics, Tolland, CT). The R^2 values of each MPC exceeded 0.9994, indicating excellent linearity of instrument response to standard gas between 0 and 4000 ppb.

Precision checks were conducted periodically using zero gas 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 were conducted with 454, 496 or 1,490 ppb of H_2S. Since the analyzer was demonstrated to have a linear response from 0 to 4000 ppb (above), analyzer responses at other span gas concentrations were adjusted ratiometrically to the expected response at 496 ppb for the purpose of constructing the control charts (Appendix C).

Table 8. Multipoint calibration record and results for the H_2S measurements.

Date	# points	Span concentration, ppb		R^2
		Minimum	Maximum	
11/29/07	4	547	1,774	0.999
5/13/08	4	711	2,145	0.999
8/09/08	4	762	2,231	0.999
8/27/08	9	774	5,657	0.999
8/31/08	9	535	3,992	0.999
9/11/08	9	549	3,993	0.999
10/21/08	9	545	4,084	0.999
12/17/08	9	565	4,192	0.999
12/30/08	9	549	4,091	0.999
1/18/09	9	403	2,964	0.999
1/22/09	9	378	2,813	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 9). The H_2S/air blend used from 11/2/08 until 6/25/09 degraded significantly prior to the expiration date and was replaced with H_2S/nitrogen blends by Praxair. Only span check data obtained from balance-N_2 H_2S cylinders was included in the data analysis. The models were used to correct instrument readout data. The measurement accuracy (Table 9) was assessed based on model-corrected zero and span checks (Appendix C).

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Table 9. Concentration correction and measurement accuracy for hydrogen sulfide.

Start/end dates	# of checks		Linear model	Accuracy, % of span			
				Bias		Precision	
	Zero	Span		z	s	z	s
3/16/08-4/20/08	3	3	y = 1.046x – 18.62	0.0	-0.1	0.5	3.3
5/3/08-8/31/08	16	16	y = 0.6842x – 11.63	0.0	0.2	0.2	3.0
8/31/08-1/18/09	19	7	y = 0.9635x – 15.32	0.0	0.0	0.2	4.2
1/21/09-6/30/09	26	3	y = 0.9455x – 15.79	0.0	6.0	0.4	1.7
6/30/09-1/13/10	25	23	y = 1.0674x – 15.90	0.0	1.2	0.5	1.8
All	89	52					

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 26 to 59 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 10).

Table 10. Noise tests of gas analyzers with dry air on 1/16/10.

Gas	Statistical variable				Duration, min	T_{dew}, °C
	Min	Max	SD	MDL		
NH_3, ppm	-0.10	0.44	0.12	0.27	59	-97.1
H_2S, ppb	13.0	16.0	1.3	3.2	26	-94.6

3.8.4. Particulate Matter Monitors

The quality of the exhaust PM data was assessed through periodic mass verifications and flow and leak checks of the TEOMs (Tables 11-13). The TEOMs met or exceeded the mass verification criteria (Ko actual within ±2.5% of Ko audit) on all occasions. The criteria for total and main flows were 16.67±1.0 and 3.0±0.2 $L \cdot min^{-1}$, respectively, and were met on all dates except in barn 3 where data had to be invalidated from 2/27/09 to 10/1/09 because of failed flow checks.

Leakage criteria were total flow ≤ 0.62 $L \cdot min^{-1}$ and main flow ≤ 0.15 $L \cdot min^{-1}$, respectively. All leak and flow tests of TEOMs were acceptable on all dates except 8/10/08 in barn 1.

The TEOM measurements were also evaluated based on collocated measurements of all three PM types (Table 14). When the B2 TEOM was collocated with B1 TEOM from 3/19/10 to 3/24/10, the differences in average PM_{10}, TSP and $PM_{2.5}$ concentrations over the collocation periods of 4.8, 3.1 and 3.6 d were 2.2, 2.2 and 14.2%, respectively. When the B2 TEOM was collocated with the B3 TEOM from 2/23/10 to 3/19/10, the differences in average PM_{10}, TSP and $PM_{2.5}$ concentrations over the collocation periods of 6.8, 5.9, and 6.9 d were 5.5, 2.5 and 3.2%, respectively.

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The quality assurance tests of inlet PM monitor are summarized in Table 15. The mass verification criteria were met each time. The flow rate tests were always well within the 16.67±1.0 L·min^{-1} range.

Table 11. Quality assurance tests of barn 1 TEOM (S/N 26508).

Date	Time since last test, d	Mass error, %	TEOM flows, L·min^{-1}		Leak test flows, L·min^{-1}	
			Main	Total	Main	Auxiliary
01/11/08	0	-	3.05	16.97	-	-
02/28/08	48	-	-	-	0.10	0.15
03/16/08	17	0.02	3.08	16.65	0.09	0.07
07/16/08	122	1.02	3.06	16.45	0.09	0.08
08/10/08	25	-	2.98	16.44	**0.26**	0.11
10/19/08	70	0.62	3.07	16.63	0.13	0.11
12/20/08	62	0.09	3.05	16.53	0.10	0.09
12/29/08	9	-	3.01	16.75	0.11	0.12
02/27/09	60	-	3.03	16.56	0.12	0.13
05/16/09	78	0.47	3.15	16.89	0.10	0.10
06/14/09	29	-	3.03	16.67	0.10	0.06
08/08/09	55	-	3.04	16.56	-	-
10/11/09	64	-	3.09	17.13	0.09	0.07

Table 12. Quality assurance tests of barn 2 TEOM (S/N 26469).

Date	Time since last test, d	Mass error, %	TEOM flows, L·min^{-1}		Leak test flows, L·min^{-1}	
			Main	Total	Main	Auxiliary
01/11/08	0	-	3.07	16.91	0.10	0.21
03/06/08	55	-	-	16.50	0.11	0.21
03/16/08	10	0.91	3.12	16.42	0.10	0.21
07/16/08	122	1.03	3.00	16.41	0.12	0.24
08/10/08	25	-	3.05	16.23	0.12	0.30
10/19/08	70	1.29	3.09	16.48	0.12	0.27
12/20/08	62	0.94	3.03	16.62	0.12	0.26
12/29/08	9	-	3.10	16.77	0.12	0.25
02/27/09	60	-	3.05	16.42	0.13	0.25
05/18/09	80	1.46	3.09	16.88	0.12	0.24
06/14/09	27	-	3.06	16.45	0.12	0.26
08/08/09	55	-	3.02	16.57	-	-
10/11/09	64	-	3.05	16.75	0.12	0.25

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

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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.

Table 13. Quality assurance tests of barn 3 TEOM (S/N 26458).

Date	Time since last test, d	Mass error, %	TEOM flows, $L \cdot min^{-1}$		Leak test flows, $L \cdot min^{-1}$	
			Main	Total	Main	Auxiliary
01/11/08	0	-	3.10	17.01	0.09	0.19
03/16/08	65	0.08	3.02	16.08	0.14	0.46
04/05/08	20	-	3.06	16.74	0.09	0.11
07/16/08	102	1.00	3.01	16.47	0.10	0.11
10/19/08	95	1.19	3.20	16.47	0.11	0.12
12/20/08	62	1.41	3.03	16.60	0.11	0.12
12/29/08	9	-	3.09	16.46	0.10	0.12
02/27/09	60	-	2.99	16.37	0.11	0.11
05/24/09	86	1.36	2.95	14.33	0.10	0.14
06/14/09	21	-	3.10	15.08	0.11	0.18
08/08/09	55	-	3.00	19.84	0.12	0.18
10/01/09	54	-	3.05	16.85	0.01	0.21
10/14/09	13	-	3.00	16.78	0.04	0.21

Table 14. TEOM collocation test results (B2 TEOM vs B1 TEOM in B2).

PM type	Average concentration, $\mu g/m^3$		Difference, %
	Barn 2 TEOM	Barn 1 TEOM	
PM_{10}	422	432	2.2
TSP	861	880	2.2
$PM_{2.5}$	34	30	14.2
(B2 TEOM vs. B3 TEOM)			
PM type	**Average concentration, $\mu g/m^3$**		**Difference, %**
	Barn 2 TEOM	**Barn 3 TEOM**	
PM_{10}	384	364	5.5
TSP	1088	1061	2.5
$PM_{2.5}$	36	37	3.2

Table 15. Inlet PM monitoring quality assurance parameters.

Date	Time since last test, d	Mass verification, %	Total flow check, %
5/3/08	-	0.80	-0.78
10/19/08	169		1.68
12/17/08	59		2.70
7/26/09	221		1.98
8/8/09	13		-0.30
9/17/09	40		3.06
4/24/10	219	1.10	-0.30

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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. Since zero checks of the static pressure sensors were improperly recorded, readings of at least five minutes in duration under zero pressure conditions in the barn were identified. Zero pressure conditions were defined as wind<0.25 m/s, and all fans off. The control charts (Figure 4) confirmed the validity of this approach; as most data points were within 1.0 Pa of zero. The zero checks were time-weighted to determine correction factors of 0.46, 0.25 and 0.68 Pa for barns 1, 2 and 3, respectively.

Atmospheric pressure readings were obtained from the TEOM in Barn 1. The data compared very well with the atmospheric pressure data from the NCDC database for the nearest weather station (http://www1.ncdc.noaa.gov/).

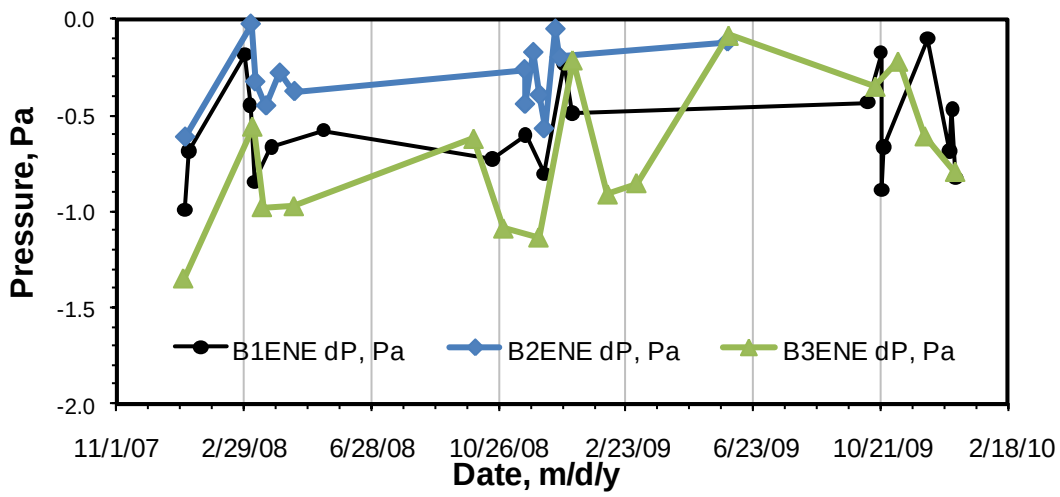

Figure 4. Barn static pressures under windless conditions with no operating fans.

3.9.2.2. Environmental Sensors

Barn indoor temperature was defined as the average of the four thermocouples distributed lengthwise along the barn's central axis (Figure 2).

Barn relative humidity (RH) was provided by the OMNI/NOVUS RH/T sensor at fan 1 in each barn, and RH was converted to humidity ratio using the standard conversion equations. Also, the INNOVA T_{dew} readings for the inlet location were converted to RH.

Solar radiation data was corrected to account for the zero offset of the pyranometer. Overnight readings throughout the study were a consistent 16 $W \cdot m^{-2}$, which was used as the offset.

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3.9.2.3. Fan Operation

The operational status and speed of each wall fan were monitored. Whenever possible, the fan operation status was calculated by the fan speed signal. Data from the current sensors were used whenever the fan speed sensors experienced failures and the normal operating speed of the fan was substituted for the measured fan speed.

3.9.2.4. Gas Concentrations

The first 7 min and 5 min of the 10-min exhaust 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 three and five 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 14. Gas concentration data validation and interpolation requirements.

Gas	Equilibration period, min		Maximum interpolation interval, min	
	Inlet	Exhaust	Inlet	Exhaust
NH_3	17	7	3000	300
H_2S	10	5	3000	300

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

Gas concentration data were invalidated due to problems with the INNOVA 1412. The analyzer sustained two chopper motor failures, causing approximately 40 d of NH_3, CO2 and water-vapor concentration data to be lost or invalidated (Appendix D).

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:

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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 Concentrations

Prior to 2/18/08, the TEOM flow rates were internally adjusted to 16.7 L min^{-1} for standard conditions (25ºC and 1 atm), regardless of the surrounding conditions. The actual flow through the TEOM was verified by correcting for the surrounding conditions and confirming the flow was maintained between 15.7 and 17.7 L min^{-1}. PM concentration data was invalidated if the calculated flow was outside this range. The internal TEOM settings were changed on 2/18/08 to adjust the flow to 16.7 L min^{-1} based on actual rather than standard air density.

The TEOMs were configured to output the PM concentration data at the surrounding temperature and atmospheric pressure until 2/21/08, at which time they were reconfigured to output the PM data at standard conditions (20ºC, 1 atm). All PM concentration data prior to 2/21/08 was corrected to standard conditions. Dry standard PM concentrations were obtained by dividing raw concentrations by the air humidity ratio.

Failed TEOM flow checks resulted in the invalidation of 236 d of B3 PM data.

3.9.3. Emission calculations

3.9.3.1. Particulate matter

PM emissions were calculated with Eqn. 3-3.

$$E = \left(Q_0 * P_0 * \left(\frac{273+20}{273+T_0}\right)\right) * (C'_0 - C'_i) \qquad (3\text{-}3)$$

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)

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3.9.3.2. Gases

Barn emission rates 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	Barn emission rate (mg s^{-1} or µg s^{-1})
Q_O	Barn 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)

Barn emission was divided by variables (barn inventory, animal units) 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 farm production information, including inventory, pig mass and density are presented in Table F1. Occupancy in the barns over the full duration of the study averaged 632, 617 and 625 hogs in barns 1, 2 and 3, respectively.

The two-year monitoring period extended across six growth cycles, including four complete growth cycles. Based on the four growth cycles, the average growth cycles lasted 128, 123, and 128 d for barns 1 to 3, respectively. The time between groups was typically two weeks long, with the exception of the 45-d period when the barns were empty because of the dysentery outbreak.

4.2. Characteristics of Biomaterials

The pH, solids, TAN, and TKN concentrations of the manure, solids and total N contents of the feed, and the nitrate/nitrite, total N, TKN, and sulfur contents of the water are presented in Appendix E.

A total of five different feed formulations were fed to each group of finishers. Table E1 summarizes the analyses of feed samples. The results represent composite feed samples taken

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randomly from at least four feed hoppers of each barn. A total of 49 separate feed samples across barns 1, 2 and 3 were collected and analyzed. The nitrogen content of the feed ranged from 2.4 to 3.31% nitrogen (wet-basis).

The TAN content of the pit manure ranged from 750 to 2320 $mg \cdot L^{-1}$, while the Kjeldahl N ranged from 820 to 4570 $mg \cdot L^{-1}$. Solids contents ranged from 0.6% to 7.0%, while pH varied between 7.18 and 8.06.

Water samples showed non-detectable or very low ($\leq$0.10 $mg \cdot L^{-1}$) nitrate/nitrite N, and 7 of 9 samples had $\leq$1.1 $mg \cdot L^{-1}$ or non-detectable TKN concentrations. Two of the water samples collected in December, 2009 showed between 75 and 81 $mg \cdot L^{-1}$ of TKN. The cause of this discrepancy is unknown. The total sulfur concentrations in the water ranged from 0.87 to 1.23 $mg \cdot L^{-1}$ for the three samples analyzed.

4.3. Environmental Conditions

4.3.1. Ambient conditions

According to historical climatic information (Table 15), average daytime high temperatures range from 13°C in the winter to 30°C in the summer. Average overnight lows range from 0°C in winter to 20°C in the summer. Prevailing winds for the region are from the west-southwest from December to March, west during March, southwest or west-southwest from April to August, and northeast to north from September to November.

Table F2 shows the daily average outdoor temperature, relative humidity, wind speed, wind direction, solar radiation and barometric pressure. The outside temperature ranged from -2 to 32°C . The ADM outdoor temperature during the study period was 17.8°C, while the historical annual average for the area was 17°C (Table 15).

Table 15. Monthly averages for weather conditions in the area*.

Month	Temperature*,°C			Wind speed** km/h	Wind direction**
	High	Low	Mean		
January	12	0	6	8	WSW
February	14	2	8	10	WSW
March	19	5	12	10	W
April	23	9	16	10	SW
May	27	13	21	8	SW
June	31	18	24	8	WSW
July	33	21	27	5	SW
August	32	20	26	5	SW
September	29	17	23	5	NE
October	24	10	17	5	N
November	19	6	13	8	N
December	14	2	8	8	WSW
Annual average	23	10	17		

* http://www.weather.com/weather/wxclimatology/monthly/USNC0228
** Data collected at Fayetteville, NC, taken NOAA National Climate Data Center.

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4.3.2. Barn Conditions

The daily average room temperatures (average of all interior thermocouples) are plotted in Figure 5, and are presented along with RH in Table F3. The average temperatures for barns 1 to 3 were 23.3±3.8, 23.0±3.4, and 24.0±3.4°C, respectively.

4.3.3. Ventilation Rates

The median static pressure differential was -20±5 Pa for all sensors. The fraction of time that the pressure was positive ranged from 1.7 to 5.2%. Most of the positive pressures were likely wind-induced. Static pressure was greater than -35 Pa over 90% of the time.

The ventilation rate of all three barns ranged from 0 m^3 s^{-1} when fans were turned off, to 35.0 m^3 s^{-1} during the summer with the barns full of pigs (Figure 5). The overall average ventilation rates were 10.3, 12.6, and 10.0 m^3 s^{-1} for barns 1 to 3, respectively.

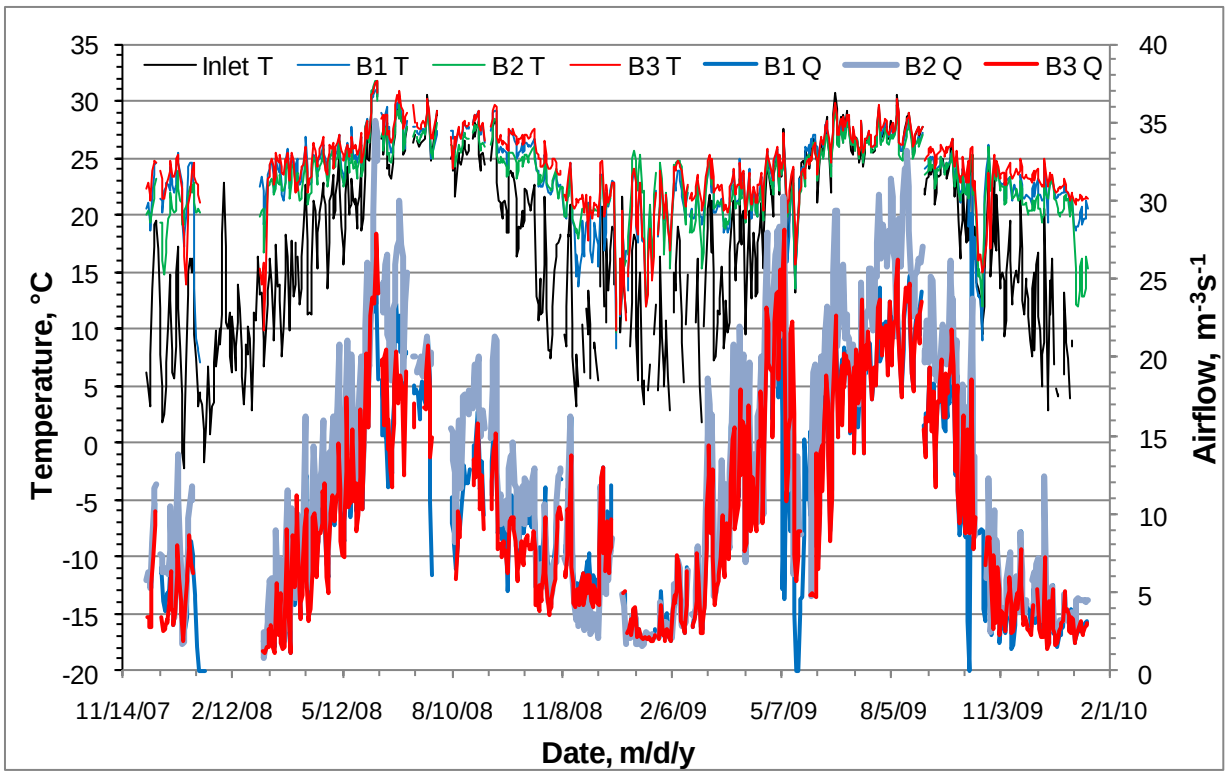

Figure 5. Inlet and exhaust temperatures and airflow rates of barns 1 to 3.

4.4. Particulate Matter Concentration and Emission

4.4.1. PM_{10}

Daily mean PM10 concentration and emission data for the site are provided in Table F4. The DM inlet PM_{10} concentration (n=579 d) ranged from 2.5 to 54.6 µg dsm^{-3}, whereas the DM PM_{10} exhaust concentrations of barns 1 to 3 ranged from 12.1 to 1,280 (n=503 d), -0.6 to 1,630 (n=487 d), and 12.2 to 1,300 (n=351 d) µg dsm^{-3}, respectively.

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The ADM PM_{10} concentrations of the inlet and barns 1 to 3 were 19.2±8.2, 288±192, 266±191, and 294±191 µg dsm^{-3}, respectively.

The overall mean PM_{10} emission rates (Table F4, Figure 6) were 188±112 g d^{-1} (287±204 mg $d^{-1}pig^{-1}$), 187±111 g d^{-1} (286±178 mg $d^{-1}pig^{-1}$), and 167±91 g d^{-1} (257±139 mg $d^{-1}pig^{-1}$) for barns 1 to 3, respectively.

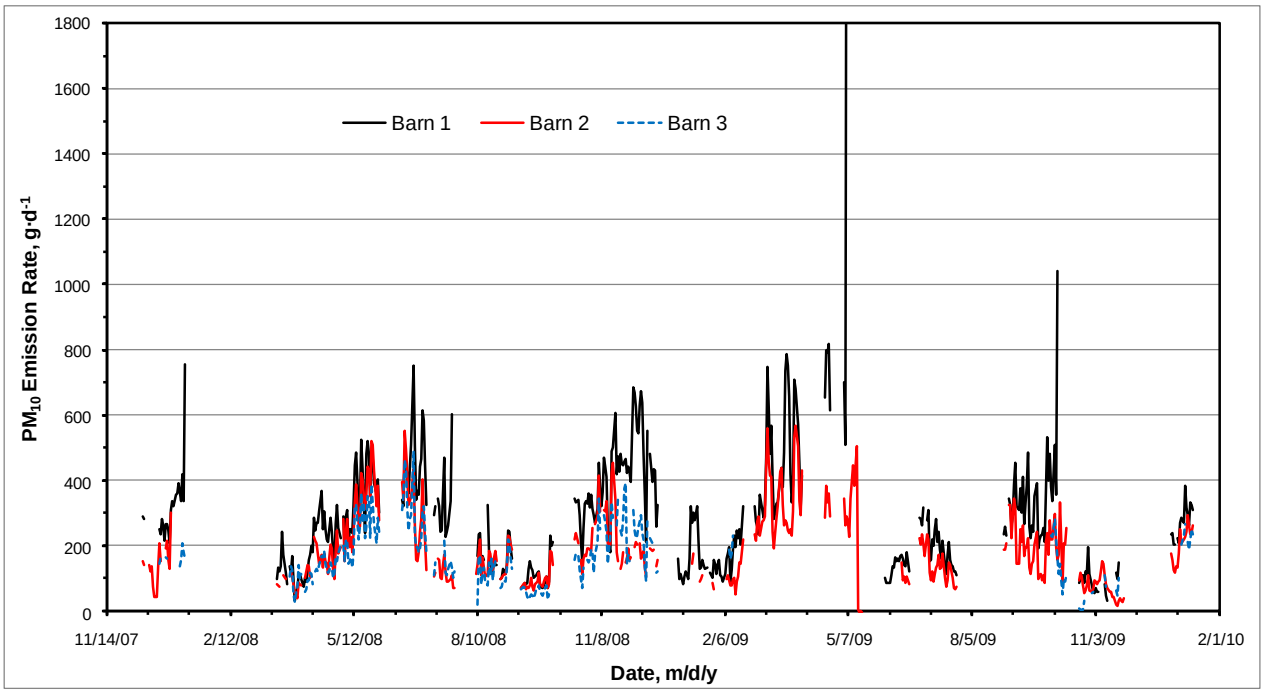

Figure 6. PM_{10} emissions.

4.4.2. $PM_{2.5}$

Daily mean concentrations of $PM_{2.5}$ (Table F5) ranged from 2.9 to 29.4 µg dsm^{-3} in the inlet air (n=57 d). Concentrations in the exhausts of barns 1 (n=57 d), 2 (n=57 d) and 3 (n=31 d) ranged from 20.0 to 52.0, 12.2 to 34.0 and 11.4 to 34.9 µg dsm^{-3}, respectively. The ADM concentrations of $PM_{2.5}$ were 32.1±8.4, 23.0±6.0, and 23.4±5.8 µg dsm^{-3} in the exhaust streams of the three barns.

The overall mean $PM_{2.5}$ emission rates (Table F5, Figure 7) were 24.1±8.2 g d^{-1} (31.8±10.8 mg $d^{-1}pig^{-1}$), 13.4±5.1 g d^{-1} (19.5±8.4 mg $d^{-1}pig^{-1}$), and 9.5±3.3 g d^{-1} (13.0±4.2 mg $d^{-1}pig^{-1}$) from B1 (n=48 d), B2 (n=55 d), and B3 (n=24 d), respectively.

4.4.3. TSP

Data from the six TSP measurement periods are shown in Table F6. Daily mean TSP concentrations ranged from 5.5 to 71.8 µg dsm^{-3} in the inlet air (n= 53 d), 127 to 2,350 µg dsm^{-3} in B1 exhaust air (n=53 d), 107 to 2,110 µg dsm^{-3} in barn 2 exhaust air (n=53 d), and from 264 to 1,650 µg dsm^{-3} in barn 3 exhaust air (n=23 d).

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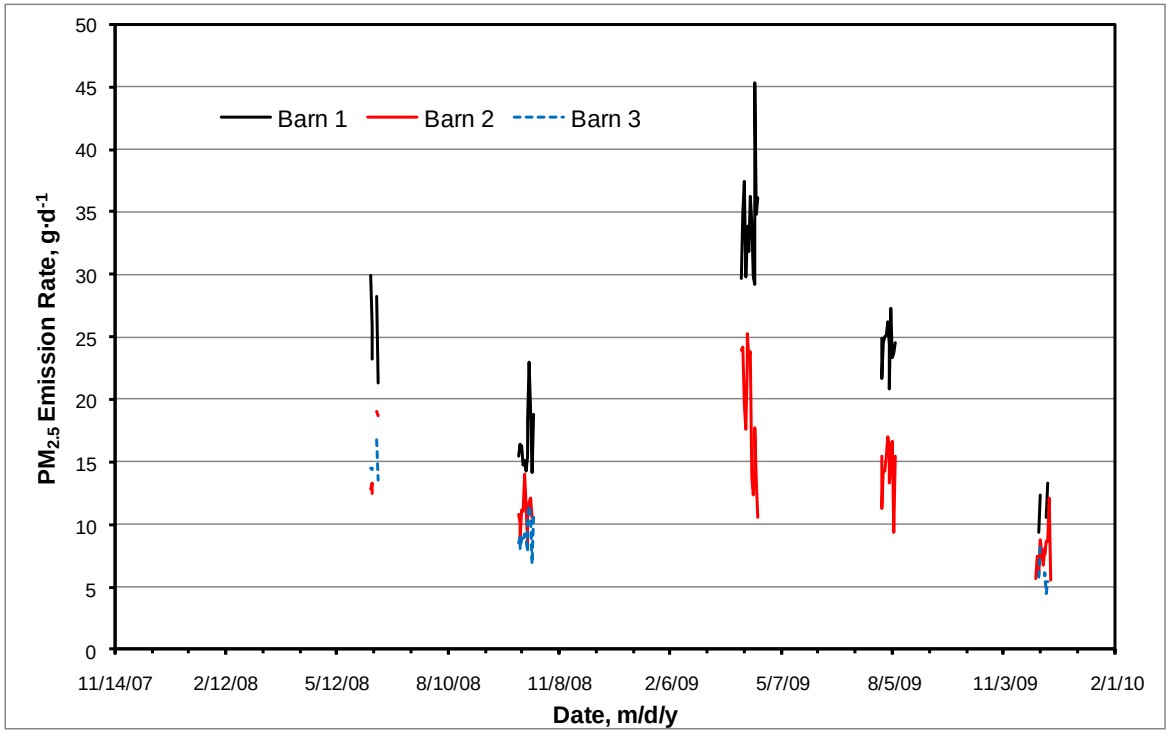

Figure 7. $PM_{2.5}$ emissions.

The ADM concentrations of the inlet, and exhaust air of barns 1 to 3 were 24.4±10.4, 657±539, 641±586, and 974±413 µg dsm^{-3}, respectively (Table F6).

TSP emission rates (Table F6, Figure 8) were 429±218 g d^{-1} (630±325 mg $d^{-1}pig^{-1}$) for barn 1 (n= 53 d), 410±283 g d^{-1} (607±453 mg $d^{-1}pig^{-1}$) for barn 2 (n= 61 d), and 375±246 g d^{-1} (498±320 mg $d^{-1}pig^{-1}$) for barn 3 (n= 27 d), respectively.

4.5. VOC Concentrations and Emissions

The 20 most prevalent VOC detected in the canister samples accounted for 84% of the total quantified mass (Table 18). The most prevalent compound was acetic acid, which was 10% of the total mass.

Concentrations of total VOC in exhaust air ranged from 0.21 to 1.01 mg m^{-3} in B1, 0.38 to 1.06 mg m^{-3} in B2, and 0.42 to 1.07 mg m^{-3} in B3. The mean total VOC concentrations were 0.63±0.32 mg m^{-3} in B1, 0.75±0.28 mg m^{-3} in B2, and 0.77±0.26 mg m^{-3} in B3, respectively.

Total VOC emissions rates during each sampling period were determined by multiplying the mean building airflow rate (m^3 s^{-1}) by the total VOC mass concentration (ng m^{-3}), and converting to kg d^{-1}. The VOC emission rates of B1, B2, and B3 ranged from 0.11 to 0.89, 0.18 to 1.81, and 0.09 to 1.33 kg d^{-1}, respectively (Table 19). The mean VOC emission rates from B1, B2, and B3 were 0.50±0.31, 0.72±0.77, and 0.63±0.47 kg d^{-1}, or 0.63±0.38, 0.90±0.96 and 0.79±0.59 g d^{-1} hd^{-1}, respectively.

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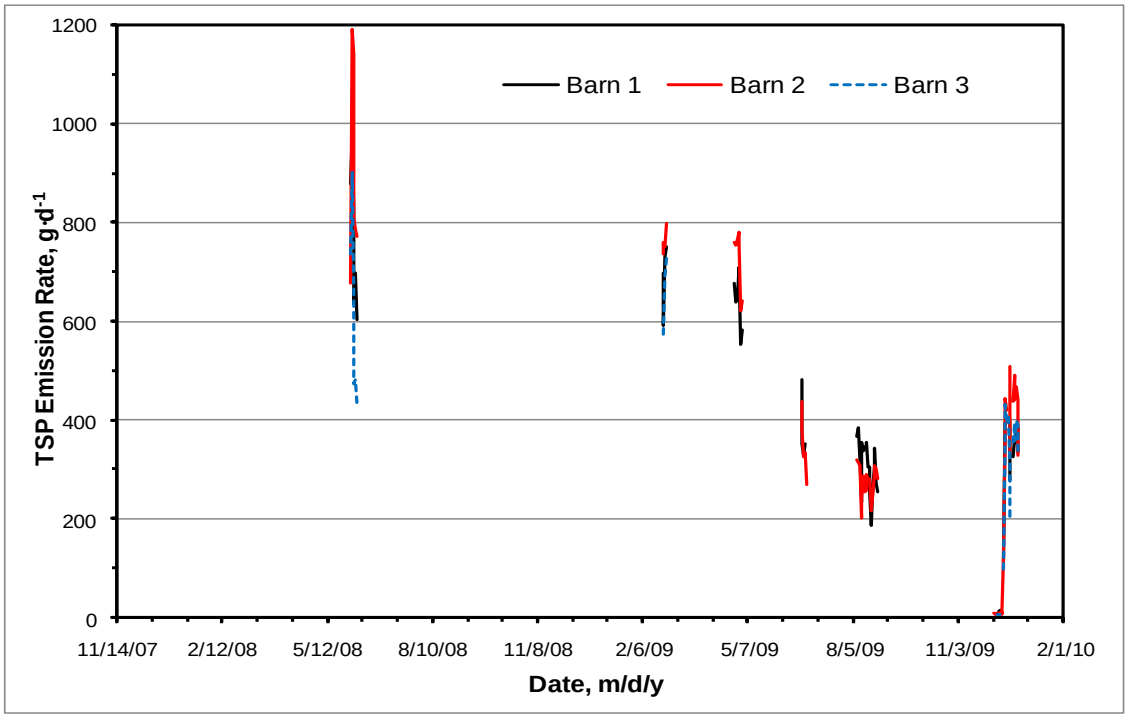

Figure 8. TSP emissions.

4.6. Hydrogen Sulfide Concentrations and Emissions

Daily mean inlet and exhaust H_2S concentrations for the entire test are provided in Table F7.

The average daily mean H_2S concentrations were approximately 4.8±6.0 (n=613) ppb in the inlet air, and 158±153 (n=567), 173±187 (n=565), and 196±182 (n=570) ppb in the exhausts of barns 1 to 3, respectively.

Daily mean H_2S emissions from barns 1 to 3 are tabulated in Table F8, and plotted in Figure 9 for the entire test period.

The ADM H_2S emission rates from barns 1 to 3 were 157±140 (n=509), 170±143 (n=494), and 193±141 (n=448) g d^{-1}, respectively.

The ADM pig-specific H_2S emission rates from barns 1 to 3 were 234±235 (n=491), 279±271 (n=484), and 299±235 (n=437) mg d^{-1} pig^{-1}, respectively.

4.7. Ammonia Concentrations and Emissions

Daily mean inlet and exhaust NH_3 concentrations for the entire test are provided in Table F9.

The average daily mean NH_3 concentrations were approximately 0.25±0.30 (n=629) ppm in the inlet air, and 11.9±7.3 (n=581), 10.1±6.4 (n=586), and 12.5 ±8.0 (n=584) ppm in the exhausts of barns 1 to 3, respectively.

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Daily mean NH_3 emissions from barns 1 to 3 are tabulated in Table F10, and plotted in Figure 10 for the entire test period.

The ADM NH_3 emission rates from barns 1 to 3 were 5.5±2.5 (n=527), 5.2±1.9 (n=509), and 5.6±2.1 (n=450) kg d^{-1}, respectively.

The ADM pig-specific NH_3 emission rates from barns 1 to 3 were 8.09±5.32 (n=509), 7.99±3.85 (n=499), and 8.40±3.85 (n=439) g d^{-1} pig^{-1}, respectively.

Table 16. Average concentrations of the 20 most prevalent VOC.

Compound	Concentration, ng m^{-3}	% of total	Cumulative %
Acetic acid	7.32E+04	10.36%	10.4
2-Butanone	6.52E+04	9.22%	19.6
Acetaldehyde	6.20E+04	8.76%	28.3
Propanoic acid	5.15E+04	7.29%	35.6
4-Methyl-phenol	5.07E+04	7.18%	42.8
2,3-Butanedione	5.02E+04	7.09%	49.9
iso-Propanol	2.77E+04	3.91%	53.8
Pentane	2.62E+04	3.70%	57.5
Phenol	2.46E+04	3.48%	61.0
Dimethyl sulfide	2.25E+04	3.18%	64.2
Dimethyl disulfide	2.12E+04	3.00%	67.2
Pentanal	1.75E+04	2.48%	69.7
Hexanal	1.54E+04	2.18%	71.8
1-Butanol	1.43E+04	2.02%	73.9
Hexane	1.29E+04	1.82%	75.7
n-Propanol	1.23E+04	1.74%	77.4
Octanal	1.23E+04	1.74%	79.1
Heptanal	1.22E+04	1.73%	80.9
Nonanal	1.19E+04	1.69%	82.6
Butanal	1.11E+04	1.57%	84.1

Table 17. Emissions of total VOC for each sampling day.

Date	# canisters			Concentration, mg m^{-3}			Airflow, m^3 s^{-1}			Emission, kg d^{-1}		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
04/24/09	1	1	1	0.37	0.72	0.67	23.4	29.3	23.0	0.74	1.81	1.33
07/11/09	2	2	0	0.21	0.38	-	22.0	21.9	-	0.39	0.72	-
08/03/09	2	0	2	0.49	-	0.42	21.2	-	21.3	0.89	-	0.78
12/02/09	2	0	2	1.01	-	1.07	7.36	-	6.81	0.64	-	0.63
12/11/09	0	2	2	-	1.06	0.70	-	1.93	1.53	-	0.18	0.09
12/18/09	2	2	0	0.91	0.85	-	1.43	2.52	-	0.11	0.19	-
12/26/09	2	0	2	0.78	-	0.97	3.31	-	3.74	0.22	-	0.31
Mean	1.6	1.0	1.3	0.63	0.75	0.77	13.1	13.9	11.3	0.50	0.72	0.63

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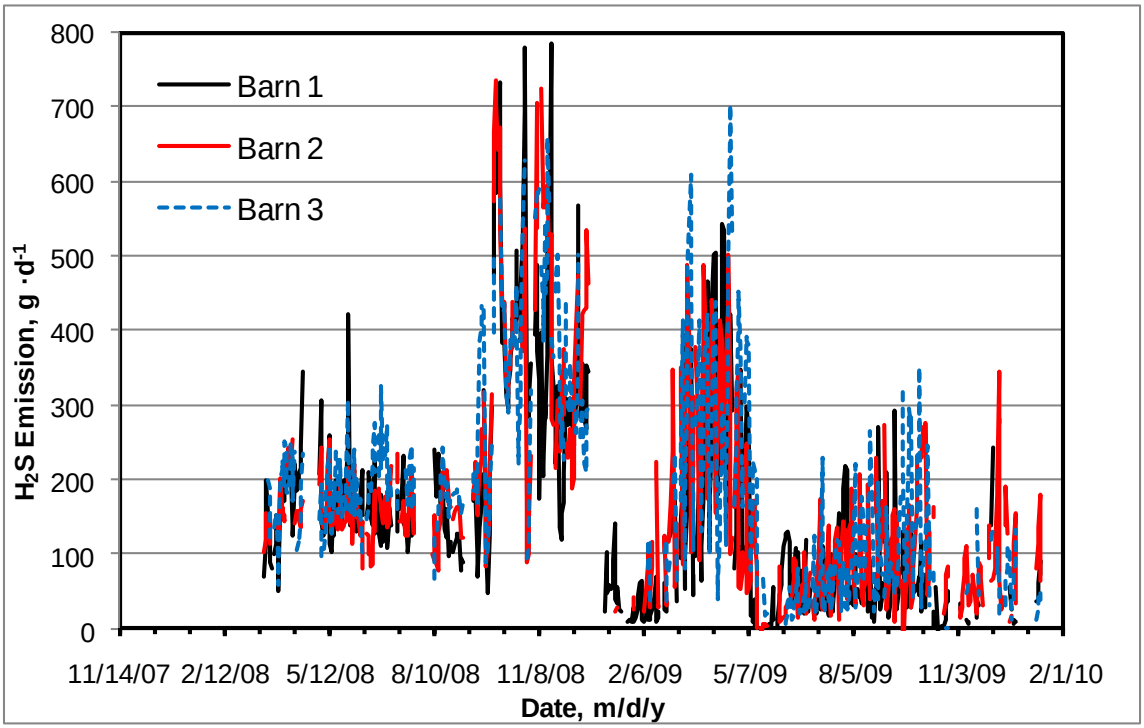

Figure 9. Daily mean H_2S emissions from the three finishing barns.

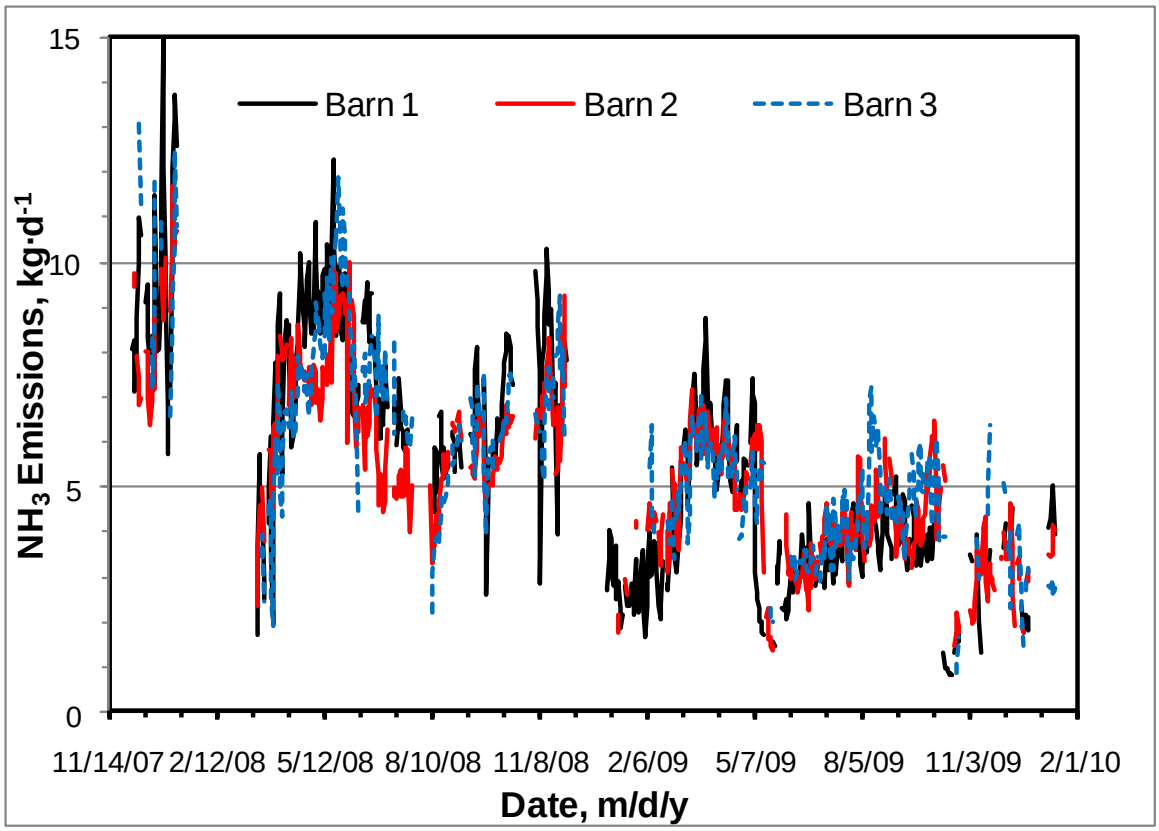

Figure 10. Daily mean NH_3 emissions from the three finishing barns.

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4.8. Emission Data Completeness

Daily completeness data is given in Table F11. The number of complete data days (>75% valid required for reporting a daily mean) were calculated for emission measurements conducted from 12/4/07 to 1/13/10 (Table 20). The number of complete data days of NH_3 emissions was reduced by chopper motor failures and maintenance of the instrument. Completeness for all parameters was also reduced because of the interruption caused by the dysentery outbreak and its subsequent cleanup. The PM completeness was affected by TEOM failures.

Table 18. Emissions data completeness.

Location	Days with >75% valid emission data				
	NH_3	H_2S	PM_{10}	$PM_{2.5}$	TSP
Barn 1	528	523	494	48	63
Barn 2	510	508	477	55	63
Barn 3	451	462	348	24	33

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 B1, B2 and B3 were 10.3 ± 6.6 $dsm^3 s^{-1}$ (n=674), 12.6 ± 8.3 $dsm^3 s^{-1}$ (n=649) and 10.0 ± 6.7 $dsm^3 s^{-1}$ (n=632) respectively. An average of two 91-cm fans and 0.2 122-cm fans operated in each barn, at which conditions the airflow measurement uncertainty was 10.5%, 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 7). The bias and precision of NH_3 measurements were -0.02% and 2.94%, 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 9). The bias and precision of H_2S measurements were 0.09% and 3.14%, respectively.

Based on these measurement errors calculated for concentrations and airflows, the uncertainties of NH_3 and H_2S emissions from B1, B2 and B3 were 12.4 and 12.6%, respectively.

4.9.3. PM Emissions

The precision of PM_{10}, TSP and $PM_{2.5}$ concentration measurements by the B1 TEOM were 1.66, 1.54, and 8.84% based on collocation tests of the B1 and B2 TEOMs in B2 exhaust air (Table 14). The precision of PM_{10}, TSP and $PM_{2.5}$ concentration measurements by the B3 TEOM were 3.78, 1.78, and 1.94% based on collocation tests of the B3 and B2 TEOMs in B2 exhaust air (Table 14). The precision of PM_{10}, TSP and $PM_{2.5}$ concentration measurements by the B2 TEOM

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were 2.72, 1.66, and 5.39% based on the combined results of the collocation tests with the B1 and B3 TEOMs in B2 exhaust air (Table 14).

The relative biases of the TEOMs were 1.79, 1.77 and 1.20% for B1, B2 and B3. (Tables 11-13). The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from B1 were 11.6, 11.5, and 20.9%, respectively. The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from B2 were 12.3, 11.6, and 15.4%, respectively. The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from B3 were 13.3, 11.6, and 11.7%, respectively.

5. SUMMARY

The emissions of NH_3, H_2S, PM_{10}, TSP, $PM_{2.5}$ and VOC from three 800-hd swine finishing barns at a 7,200-hd farm in North Carolina were measured during a two-year monitoring study. Manure accumulated in shallow underfloor pits and drained into a lagoon every week. The buildings were tunnel-ventilated with five large endwall fans.

The overall average emission rates from finishing barn 1 were 5.5 kg d^{-1} of NH_3, 157 g d^{-1} of H_2S, 188 g d^{-1} of PM_{10}, 24.1 g d^{-1} of $PM_{2.5}$, 429 g d^{-1} of TSP, and 0.50 kg d^{-1} of total VOC. The overall average emission rates from finishing barn 2 were 5.2 kg d^{-1} of NH_3, 170 g d^{-1} of H_2S, 187 g d^{-1} of PM_{10},13.4 g d^{-1} of $PM_{2.5}$, 411 g d^{-1} of TSP, and 0.72 kg d^{-1} of total VOC. The overall average emission rates from finishing barn 3 were 5.6 kg d^{-1} of NH_3, 193 g d^{-1} of H_2S, 167 g d^{-1} of PM_{10}, 9.5 g d^{-1} of $PM_{2.5}$, 375 g d^{-1} of TSP, and 0.63 kg d^{-1} of total VOC.

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7. DEFINITIONS AND ACRONYMS

AARC	Agricultural Air Research Council
AirDAC	Air Data Acquisition and Control – computer program
ADM	Average daily mean
B1	Barn 1
B2	Barn 2
B3	Barn 3
BESS	Bioenvironmental and Structural Systems
CAPECAB	Calculations of Air Pollutant Emissions from Confined Animal Buildings
CO_2	Carbon dioxide
DM	Daily mean
ΔP	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
NCDC	National Climatic Data Center
NIST	National Institute of Standards and Technology
NH_3	Ammonia
QA	Quality assurance
QAPP	Quality Assurance Project Plan
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
SMP	Site monitoring plan
SOP	Standard operating procedure
T_{dew}	Dew point temperature
TAN	Total ammoniacal nitrogen
TDS	Thermal desorption system
TDS-GS-MS	Thermodesorption-gas chromatograph mass spectrometer
TEOM	Tapered element oscillating microbalance
TKN	Total Kjeldahl nitrogen
TSP	Total suspended particulate
VOC	Volatile organic compounds
Z/S	Zero/span

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APPENDIX A. MEASUREMENT VARIABLE LIST

Table A1. Site measurement variables, instruments and sensors.

Col#	Data heading	Instrument/sensor	Location	Monitoring/control location	Range/target	DAC item
1	Date & time	---				---
2	Smpl loc#	---				---
3	Cal gas #	Environics	Rack			---
4	Cal gas, ppm	Environics	Rack			---
5	NH3, ppm	Innova 1412	Rack	4 GSLs		---
6	CO2, ppm	Innova 1412	Rack	4 GSLs		---
10	WV, %	Innova 1412: Water	Rack	4 GSLs		---
11	H2S, ppb	H2S analyzer	Rack	4 GSLs	1-800	FP-AI-112-1
12	SO2, ppb	H2S analyzer	Rack	4 GSLs	1-800	FP-AI-112-1
13	Smpl P, Pa	Setra 209 ΔP sensor	GSS	4 GSLs	0-14.7 psiv	FP-AI-112-1
14	Smpl Q, L/m	Mass flow	GSS	4 GSLs	0-10	FP-AI-112-1
15	Smpl RH, %	Humitter 50Y	GSS	4 GSLs	0-100	FP-AI-112-1
16	Smpl T, C	Humitter 50Y	GSS	4 GSLs	-40 to 60	FP-AI-112-1
17	Smpl dir, uV	Flow direction sensor	GSS	4 GSLs	-0.065-0.065	FP-AI-112-1
18	GSS T, C	AD 592D T sensor	GSS	GSS	0-70	FP-AI-112-1
19	B1 PM, ug/m3	TEOM #1	B1	B1 fan 2	-1000-9000	FP-AI-112-1
20	B1 Filter, %	TEOM #1	B1	B1 fan 2	0-140	FP-AI-112-1
21	B1 Atm P, atm	TEOM #1	B1	B1 fan 2	0.8-1.3	FP-AI-112-1
22	B2 PM, ug/m3	TEOM #2	B2	B2 fan 4	-1000-9000	FP-AI-112-1
23	B2 Filter, %	TEOM #2	B2	B2 fan 4	0-140	FP-AI-112-1
24	B3 PM, ug/m3	TEOM #3	B3	B3 fan 2	-1000-9000	FP-AI-112-1
25	B3 Filter, %	TEOM #3	B3	B3 fan 2	0-140	FP-AI-112-1
26	Amb PM, ug/m3	BG	Amb	1.8 m above the OFIS	-1000-9000	FP-AI-112-1
28	B1 dP, Pa	Setra 260 ΔP sensor #1	OFIS	B1 E wall	-100 to 100	FP-AI-112-2
29	B2 dP, Pa	Setra 260 ΔP sensor #2	OFIS	B2 E wall	-100 to 100	FP-AI-112-2
30	B3 dP, Pa	Setra 260 ΔP sensor #3	OFIS	B3 E wall	-100 to 100	FP-AI-112-2
31	OFIS dP, Pa	Setra 260 ΔP sensor #4	OFIS	Inside and outside OFIS	-100 to 100	FP-AI-112-2

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Col#	Data heading	Instrument/sensor	Location	Monitoring/control location	Range/target	DAC item
32	Wind D, deg	05103-5 Wind monitor	Roof	Roof top tower	0-360	FP-AI-112-2
33	Wind V, m/s	05103-5 Wind monitor	Roof	Roof top tower	0-60	FP-AI-112-2
34	Solar, W/m2	Solar sensor	Roof	Roof top tower		FP-AI-112-2
35	Amb RH, %	NOVUS RHT-WM #1	Roof	Roof top tower	0-100	FP-AI-112-2
36	Amb T, C	NOVUS RHT-WM #1	Roof	Roof top tower	-40 - 120	FP-AI-112-2
37	B1 RH, %	NOVUS RHT-WM #2	B1	B1 fan 2	0-100	FP-AI-112-2
38	B1 T, C	NOVUS RHT-WM #2	B1	B1 fan 2	-40 - 120	FP-AI-112-2
39	B2 RH, %	NOVUS RHT-WM #3	B2	B2 fan 4	0-100	FP-AI-112-2
40	B2 T, C	NOVUS RHT-WM #3	B2	B2 fan 4	-40 - 120	FP-AI-112-2
41	B3 RH, %	NOVUS RHT-WM #4	B3	B3 fan 2	0-100	FP-AI-112-2
42	B3 T, C	NOVUS RHT-WM #4	B3	B3 fan 2	-40 - 120	FP-AI-112-2
43	B1S act , V	Activity sensor #1	B1S	B1 S side		FP-AI-112-3
44	B1N act , V	Activity sensor #2	B1N	B1 N side		FP-AI-112-3
45	B2S act , V	Activity sensor #3	B2S	B2 S side		FP-AI-112-3
46	B2N act , V	Activity sensor #4	B2N	B2 N side		FP-AI-112-3
47	B3S act , V	Activity sensor #5	B3S	B3 S side		FP-AI-112-3
48	B3N act , V	Activity sensor #6	B3N	B3 N side		FP-AI-112-3
49	OFIS act , V	Activity sensor #7	OFIS	OFIS		FP-AI-112-3
50	B1F1 Anem, V	Anemometer	B1F1	B1F1		FP-AI-112-3
51	B1F3 Anem, V	Anemometer	B1F3	B1F3		FP-AI-112-3
52	B2F1Anem, V	Anemometer	B2F1	B2F1		FP-AI-112-3
53	B3F1 Anem, V	Anemometer	B3F1	B3F1		FP-AI-112-3
59	B1W T, C	TC T type	B1W	B1 W end		FP-TC-120-1
60	B1MidW T, C	TC T type	B1MidW	B1 W of center		FP-TC-120-1
61	B1MidE T, C	TC T type	B1MidE	B1 E of center		FP-TC-120-1
62	B1E T, C	TC T type	B1E	B1 E end		FP-TC-120-1
63	B2W T, C	TC T type	B2W	B2 W end		FP-TC-120-1
64	B2MidW T, C	TC T type	B2MidW	B2 W of center		FP-TC-120-1
65	B2MidE T, C	TC T type	B2MidE	B2 E of center		FP-TC-120-1
66	B2E T, C	TC T type	B2E	B2 E end		FP-TC-120-1
67	B3W T, C	TC T type	B3W	B3 W end		FP-TC-120-2

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Col#	Data heading	Instrument/sensor	Location	Monitoring/control location	Range/target	DAC item
68	B3MidW T, C	TC T type	B3MidW	B3 W of center		FP-TC-120-2
69	B3MidE T, C	TC T type	B3MidE	B3 E of center		FP-TC-120-2
70	B3E T, C	TC T type	B3E	B3 E end		FP-TC-120-2
71	RwyB1 T, C	TC T type	RwyB1	Raceway to B1		FP-TC-120-2
72	RwyB1 HT, C	TC T type	RwyB1 HT	Center of raceway to B1		FP-TC-120-2
73	RwyB2 T, C	TC T type	RwyB2	Raceway to B2		FP-TC-120-2
74	RwyB2 HT, C	TC T type	RwyB2 HT	Center of raceway to B2		FP-TC-120-2
75	RwyB3 T, C	TC T type	RwyB2	Raceway to B3		FP-TC-120-3
76	RwyB3 HT, C	TC T type	RwyB2 HT	Center of raceway to B3		FP-TC-120-3
77	OFIS T, C	TC T type	OFIS	DAC panel		FP-TC-120-3
78	OFIS AC T, C	TC T type	OFIS AC	Wall A/C exhaust		FP-TC-120-3
79	RwyThruB2 T, C	TC T type	RwyThruB2	Raceway thru B2		FP-TC-120-3
83	B1F1, rpm	Fan speed sensor #1	B1F1	Fan shaft or support	0-10	USB-4303-1
84	B1F2, rpm	Fan speed sensor #2	B1F2	Fan shaft or support	0-10	USB-4303-1
85	B1F3, rpm	Fan speed sensor #3	B1F3	Fan shaft or support	0-10	USB-4303-1
86	B1F4, rpm	Fan speed sensor #4	B1F4	Fan shaft or support	0-10	USB-4303-1
87	B1F5, rpm	Fan speed sensor #5	B1F5	Fan shaft or support	0-10	USB-4303-1
88	B2F1, rpm	Fan speed sensor #6	B2F1	Fan shaft or support	0-10	USB-4303-1
89	B2F2, rpm	Fan speed sensor #7	B2F2	Fan shaft or support	0-10	USB-4303-1
90	B2F3, rpm	Fan speed sensor #8	B2F3	Fan shaft or support	0-10	USB-4303-1
91	B2F4, rpm	Fan speed sensor #9	B2F4	Fan shaft or support	0-10	USB-4303-1
92	B2F5, rpm	Fan speed sensor #10	B2F5	Fan shaft or support	0-10	USB-4303-1
93	B3 F1, rpm	Fan speed sensor #11	B3 F1	Fan shaft or support	0-10	USB-4303-2
94	B3 F2, rpm	Fan speed sensor #12	B3 F2	Fan shaft or support	0-10	USB-4303-2
95	B3 F3, rpm	Fan speed sensor #13	B3 F3	Fan shaft or support	0-10	USB-4303-2
96	B3 F4, rpm	Fan speed sensor #14	B3 F4	Fan shaft or support	0-10	USB-4303-2
97	B3 F5, rpm	Fan speed sensor #15	B3 F5	Fan shaft or support	0-10	USB-4303-2
103	B1FstB1, %t	Barn controller	B1FstB1	Barn control cabinet	on/off	DIO 96H/50
104	B1FstB2, %t	Barn controller	B1FstB2	Barn control cabinet	on/off	DIO 96H/50
105	B1Fstg3, %t	Barn controller	B1Fstg3	Barn control cabinet	on/off	DIO 96H/50
106	B1Fstg4, %t	Barn controller	B1Fstg4	Barn control cabinet	on/off	DIO 96H/50

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Col#	Data heading	Instrument/sensor	Location	Monitoring/control location	Range/target	DAC item
107	B1Fstg5, %t	Barn controller	B1Fstg5	Barn control cabinet	on/off	DIO 96H/50
108	B2FstB1, %t	Barn controller	B2FstB1	Barn control cabinet	on/off	DIO 96H/50
109	B2FstB2, %t	Barn controller	B2FstB2	Barn control cabinet	on/off	DIO 96H/50
110	B2Fstg3, %t	Barn controller	B2Fstg3	Barn control cabinet	on/off	DIO 96H/50
111	B2Fstg4, %t	Barn controller	B2Fstg4	Barn control cabinet	on/off	DIO 96H/50
112	B2Fstg5, %t	Barn controller	B2Fstg5	Barn control cabinet	on/off	DIO 96H/50
113	B3FstB1, %t	Barn controller	B3FstB1	Barn control cabinet	on/off	DIO 96H/50
114	B3FstB2, %t	Barn controller	B3FstB2	Barn control cabinet	on/off	DIO 96H/50
115	B3Fstg3, %t	Barn controller	B3Fstg3	Barn control cabinet	on/off	DIO 96H/50
116	B3Fstg4, %t	Barn controller	B3Fstg4	Barn control cabinet	on/off	DIO 96H/50
117	B3Fstg5, %t	Barn controller	B3Fstg5	Barn control cabinet	on/off	DIO 96H/50

APPENDIX B. RECORD OF MAINTENANCE AND CALIBRATION

Maintenance and Calibration Tasks	
Category	**Times completed**
Environment Sensing and Other	
Clean RH/T probe	11
Calibration check of RH/T probe	3
Calibration check of thermocouples	2
Performance check of weather station	0
Direction verification of wind indicator	0
Clean solar sensor	0
Check solar sensor with collocated sensor	0
Clean motion sensors	7
Air Flow Measurement System	
Fan test events	2
Zero check of pressure sensors (ΔP)	7
Multipoint calibration of pressure sensors (ΔP)	0
Drift & accuracy check of anemometer(s)	2
Particulate Matter Measurement System	
Clean TOEM screens	45
Check/clean TEOM inlet head(s)	45
Replace TEOM filters	42
Verify TEOM mass transducer calibration	0
Leak test of TEOM	16
Verify TEOM flow rate & MFC accuracy	16
Change TEOM in-line filters	0
Check/clean Beta Gauge inlet head	3
Check Beta Gauge airflow	7
Validate Beta Gauge mass w/foil set	2
Calibrate Beta Gauge mass & airflow	0
Gas Measurement System	
Clean/replace GSS membrane filters	9
Leak check of GSS	18
Leak checks of all lines	4
Replace GSS filters	4
Calibrate GSS pressure and flow sensors	2
Flow calibration/check MFC flow of Environics Dilutor	2
Precision check (NH_3) of Multigas Analyzer	75
Multipoint calibration (NH_3) of Multigas Analyzer	12
Precision check of TEC 450I	89
Multipoint calibration of TEC 450I	11

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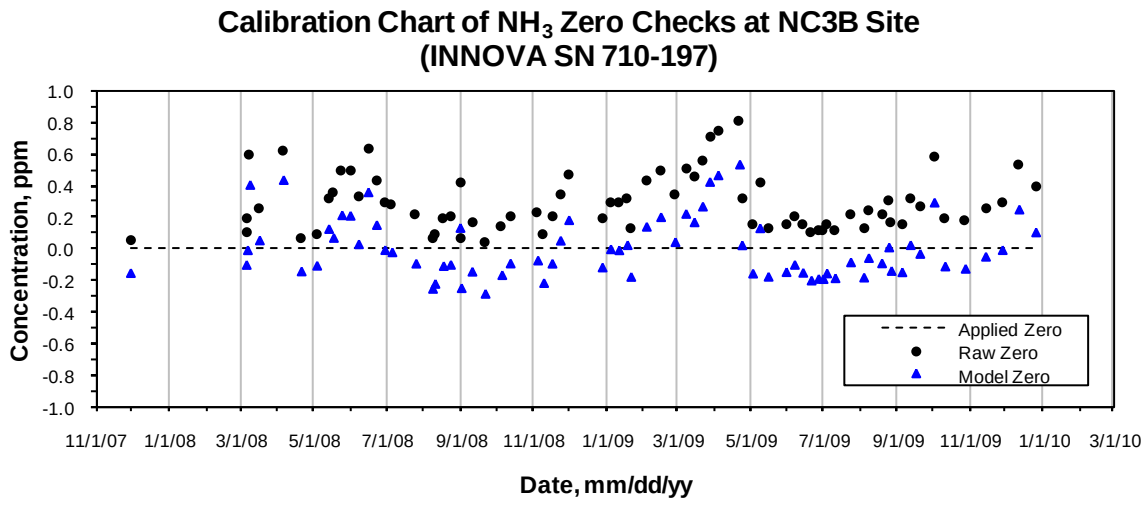
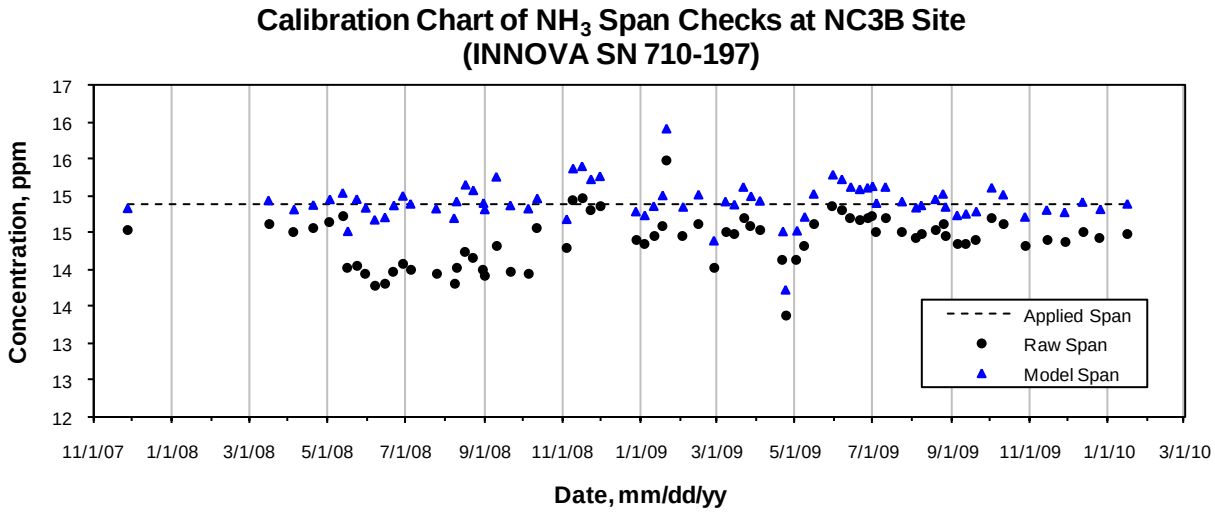
APPENDIX C. GAS ANALYZER CONTROL CHARTS

Ammonia





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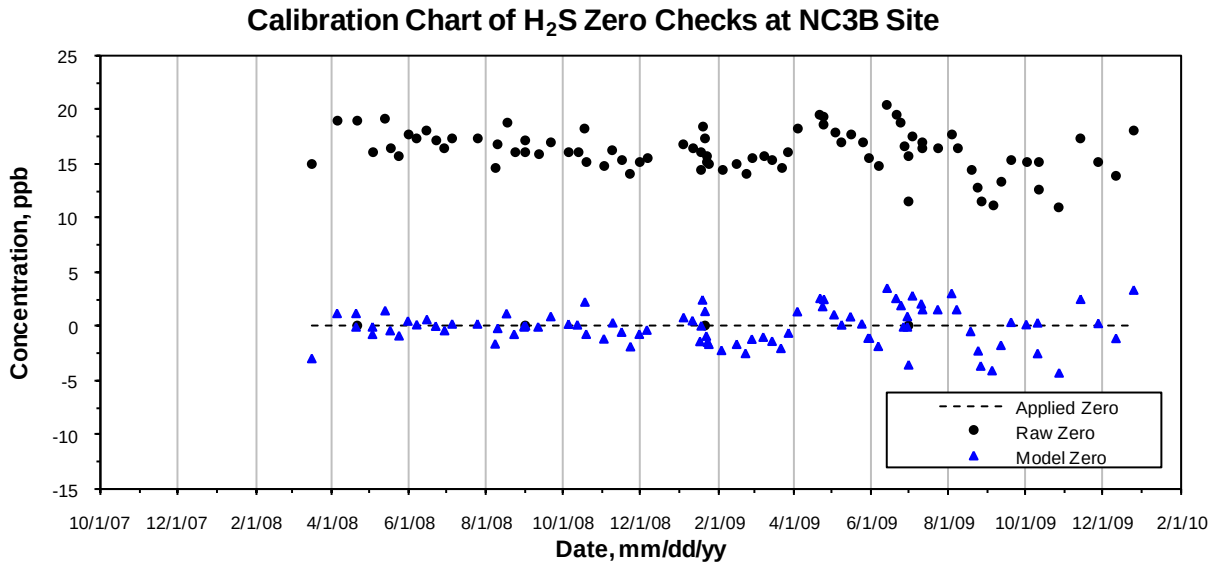
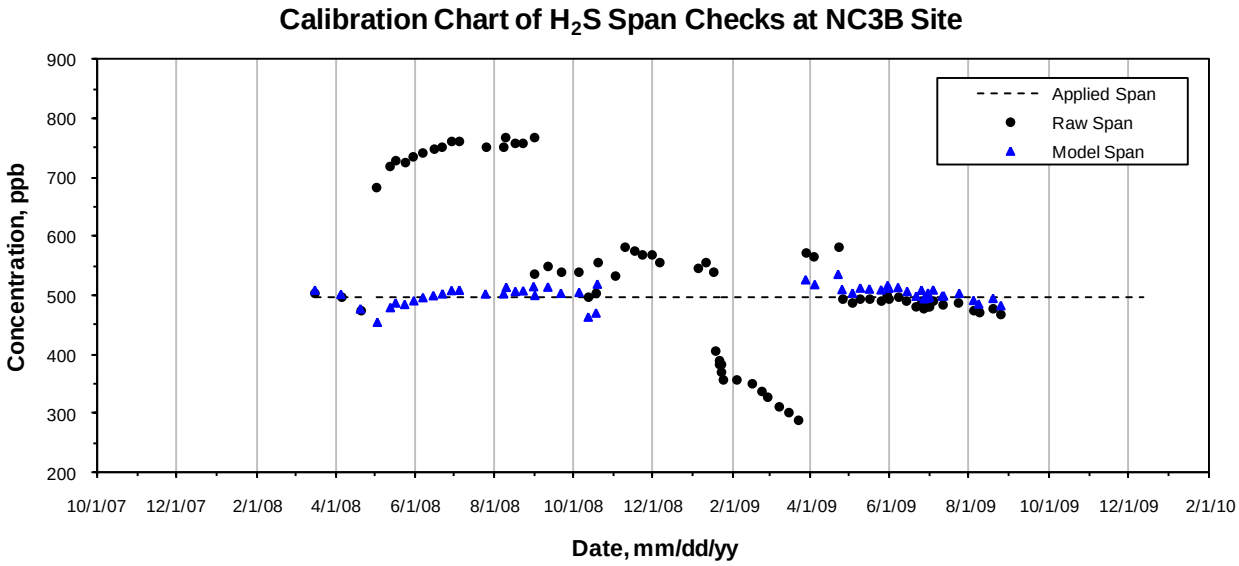
Hydrogen Sulfide





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APPENDIX D. MAJOR DATA INVALIDATIONS

Variable	Start time	End time	Min	Comments
Solar, Wind V and dir, Ambient T/RH	11/27/07 9:36	12/1/07 0:00	5184	Weather sensors not yet operational
Amb PM	12/3/07 15:29	5/3/08 17:10	218981	Beta Gauge not yet properly connected
Smpl P	12/15/07 7:49	12/27/07 12:32	17563	Noisy sensor/loose wiring
B3 PM	12/20/07 14:24	12/21/07 14:32	1448	Pegged
Smpl P	12/30/07 22:34	1/1/08 16:22	2508	Noisy sensor/loose wiring
B2 PM	1/4/08 6:58	3/13/08 13:48	99770	TEOM malfunctioned, then shut off while barns empty
B1 PM, B1 Atm P	1/11/08 13:01	3/1/08 18:40	72339	TEOM shut off while barns empty
Raw NH3, Raw CO2, WV	1/11/08 9:08	2/28/08 14:37	69449	INNOVA failed (chopper), then shut off due to empty barns
B3 PM	1/15/08 16:58	3/21/08 18:57	95159	TEOM off while barns empty, operated improperly when reconnected
B1 T, B1 RH	1/21/08 12:29	2/29/08 7:55	55886	Flat-lined/failed sensor
Raw NH3, CO2, H2S, and SO2, WV	2/28/08 14:37	3/1/08 18:40	3123	GSS was sampling OFIS air
B1 Atm P	3/5/08 15:54	3/15/08 10:30	14076	Systematic Error
B3F4_CS	3/6/08 17:10	3/20/08 13:33	19943	Current switch not working when first installed
Raw NH3, Raw CO2, Raw H2S, Raw SO2, WV	3/12/08 12:10	3/14/08 19:06	3296	Low flow based on Sample Q data
B1F1-B1F5, B2F1-B2F5, B3F1-B3F5	4/21/08 15:44	5/3/08 8:51	16867	Both USB counter modules for fan speed sensors failed
B1F1-B1F5, B2F1-B2F5, B3F1-B3F5	7/8/08 9:35	7/13/08 14:37	7502	PC's USB ports failed - no data from fan speed sensor counter modules
B1 Atm P	7/25/08 10:57	8/9/08 12:20	21683	Systematic Error
B1 RH	7/25/08 12:59	7/30/08 0:00	6421	Sensor covered for power washing
B2 RH	7/25/08 13:21	7/30/08 0:00	6399	Sensor covered for power washing
B1F1-B1F5, B2F1-B2F5	8/8/08 10:38	8/9/08 13:20	1602	One USB counter module for fan speed sensors failed
B1F3	8/10/08 7:32	8/23/08 12:45	19033	Failed sensor based on comparison with stage signal
B2F2-B2F4	8/29/08 17:11	8/31/08 9:37	2426	Failed sensors based on comparison with stage signal
B1F1-B1F5, B2F1-B2F5, B3F1-B3F5	11/15/08 5:38	11/16/08 12:43	1865	Both USB counter modules for fan speed sensors offline - needed reset
Raw NH3, Raw CO2, WV	12/2/08 11:04	12/27/08 16:58	36354	INNOVA was down for repairs
B1 Atm P	12/20/08 11:44	12/27/08 13:02	10158	TEOM was turned off
B1 PM	12/20/08 11:52	12/28/08 14:58	11706	TEOM was turned off/covered for power washing

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Variable	Start time	End time	Min	Comments
B2 PM	12/20/08 9:37	12/28/08 15:01	11844	TEOM was turned off/covered for power washing
B3 PM	12/20/08 10:24	12/28/08 15:25	11821	TEOM was turned off/covered for power washing
B1 RH, B2 RH, B3 RH	12/20/08 13:58	12/27/08 16:12	10214	Sensors covered for power-washing
Raw H2S, Raw SO2	12/21/08 11:51	12/24/08 2:57	3786	GSS sampling OFIS air during barn cleaning
B1F1, B1F3, B1F5, B2F1, B2F3, B2F5, B3F1, B3F3, B3F5	12/31/08 12:03	1/2/09 10:48	2805	Both USB counter modules for fan speed sensors offline - needed reset
Amb T	1/15/09 21:54	1/17/09 12:38	2324	Pegged sensor output
Amb T	1/20/09 9:26	1/21/09 11:42	1576	Pegged sensor output
B3 PM	2/7/09 0:04	10/1/09 8:39	340355	TEOM badly failed several consecutive leak tests
B1F1, B1F3, B1F5, B2F1, B2F3, B2F5, B3F1, B3F3, B3F5	2/20/09 9:26	2/22/09 14:31	3185	Both USB counter modules for fan speed sensors offline - needed reset
B1F1-B1F5, B2F1-B2F5, B3F1-B3F5	5/5/09 9:14	5/6/09 14:58	1784	Apparent failure of fan speed sensor signal module
B2F2	5/8/09 14:51	6/14/09 17:39	53448	Failed sensor based on stage signal comparison
B1 PM	5/16/09 16:52	6/2/09 10:56	24124	TEOM was turned off, followed by maintenance for failed data cable
B1 Atm P	5/16/09 16:52	5/30/09 10:43	19791	TEOM was turned off
B2 PM	5/18/09 8:15	6/14/09 15:55	39340	TEOM pump problems, then off for maintenance
B2 RH	5/24/09 9:21	5/30/09 11:30	8769	Sensor covered for power washing
B3 RH	5/24/09 9:57	5/30/09 12:07	8770	Sensor covered for power washing
B2 dP	5/24/09 15:28	5/30/09 11:30	8402	Sensor covered for power washing
B3 dP	5/24/09 19:26	5/30/09 13:18	8272	Sensor covered for power washing
B2F3	8/17/09 8:54	8/19/09 10:10	2956	Failed sensor based on stage signal comparison
B3 RH	10/14/09 12:42	10/21/09 11:18	9996	Sensor covered for power washing
B2 RH	10/14/09 12:56	10/21/09 11:18	9982	Sensor covered for power washing
B2 PM	10/14/09 15:03	10/21/09 12:50	9947	TEOM was turned off, followed by maintenance
B3 PM	10/14/09 15:31	10/21/09 15:50	10099	TEOM was turned off
B2F4	10/16/09 19:14	10/17/09 17:40	1346	Noisy sensor
B2 dP	11/25/09 13:42	11/28/09 11:23	4181	Failure
B3 RH	11/30/09 2:47	12/2/09 12:21	3454	Failed chip in RH/T sensor

APPENDIX E. BIOMATERIAL CHARACTERISTICS

Table E1. Feed characteristics (mean ± SD).

Ration	n	Nitrogen, %	Solids, %
1	13	3.31 ± 0.13	95.4 ± 1.7
2	8	2.90 ± 0.15	96.3 ± 0.7
3	9	2.68 ± 0.12	95.7 ± 1.8
4	9	2.40 ± 0.12	94.8 ± 2.0
5	10	2.67 ± 0.19	94.0 ± 1.8

Table E2. Water characteristics (mean ± SD).

Barn	Date	n	$mg \cdot L^{-1}$			
			Nitrate/nitrite	TKN	Total N*	Sulfur
1,2,3	6/2/09	3	-	0.50 ± 0.00	0.10 ± 0.06	0.87 ± 0.23
1,2,3	9/17/09	3	0.10 ± 0.00	1.03 ± 0.06	1.03 ± 0.06	1.20 ± 0.00
1,2,3	12/2/09	3	0.10 ± 0.00	52.7 ± 45.5	52.8 ± 45.4	1.23 ± 0.06

*By combustion

Table E3. Characterization of pit liquid in barn 1.

Date	TAN, $mg \cdot L^{-1}$	TKN, $mg \cdot L^{-1}$	pH, SU	Total solids, %
2/15/09	1700	-	-	3.7
2/16/09	750	-	-	0.6
2/17/09	870	-	7.88	1.3
2/20/09	990	-	7.36	2.5
2/22/09	1260	1800	7.36	1.9
2/23/09	1260	2140	7.24	2.3
2/24/09	1090	1740	7.67	2.2
3/10/09	1440	-	7.22	2.5
3/11/09	1620	-	7.23	3.1
3/13/09	1330	-	7.44	2.9
3/16/09	1710	-	7.33	2.9
3/27/09	1935	-	7.56	3.5
3/30/09	1800	-	7.42	2.9
4/1/09	2190	-	7.23	3.7
4/10/09	1310	1940	-	1.8
4/13/09	2320	4570	7.28	7.0
4/15/09	2320	4030	7.47	4.2
4/24/09	1380	1700	7.68	1.6
4/26/09	1650	2710	7.51	2.4
4/29/09	1810	2560	7.65	2.4
5/9/09	1090	1520	7.70	1.4
6/5/09	1070	1380	7.51	2.0
6/8/09	1120	1870	7.42	1.5
6/10/09	1160	1610	7.52	1.8

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Table E4. Characterization of pit liquid in barn 2.

Date	TAN, $mg \cdot L^{-1}$	TKN, $mg \cdot L^{-1}$	pH, SU	Total solids, %
2/15/09	1300	-	-	1.7
2/16/09	1400	-	-	1.6
2/17/09	940	-	7.33	1.1
2/20/09	1150	-	7.34	1.8
2/22/09	1290	1720	7.46	1.6
2/23/09	1430	2490	7.43	3.2
2/24/09	1010	1490	7.51	1.6
3/10/09	1700	-	7.22	3.6
3/11/09	1240	-	7.64	1.6
3/13/09	1450	-	7.33	2.2
3/16/09	1730	-	7.18	3.0
3/27/09	1760	-	7.28	2.4
3/30/09	1510	-	7.47	2.2
4/1/09	1290	-	7.41	2.4
4/10/09	1390	1580	7.32	1.7
4/13/09	1680	2700	7.30	2.4
4/15/09	1330	2490	7.48	2.5
4/24/09	1440	2260	7.47	2.3
4/26/09	1540	2680	7.48	2.5
4/29/09	950	1370	7.89	1.3
5/13/09	1540	2250	7.73	1.7
5/20/09	970	1570	7.78	1.4
6/5/09	780	920	7.79	0.92
6/8/09	820	880	7.84	0.87
6/10/09	880	920	7.70	1.1

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Table E5. Characterization of pit liquid in barn 3.

Date	TAN, $mg \cdot L^{-1}$	TKN, $mg \cdot L^{-1}$	pH, SU	Total solids, %
2/15/09	1680	-	-	3.4
2/16/09	930	-	-	0.9
2/17/09	1050	-	7.79	0.9
2/20/09	1400	-	7.62	2.9
2/22/09	1450	2230	7.63	2.3
2/23/09	1530	2510	7.53	2.9
2/24/09	1590	2420	7.47	2.2
3/10/09	1720	-	7.41	2.1
3/11/09	1720	-	7.33	2.0
3/13/09	1180	-	7.54	1.7
3/16/09	1550	-	7.33	1.8
3/27/09	1580	-	7.51	2.1
3/30/09	1300	-	7.26	2.3
4/1/09	1690	-	7.24	2.8
4/10/09	1180	1520	7.72	1.8
4/13/09	1520	1960	7.59	1.6
4/24/09	1240	1840	7.60	2.3
4/26/09	1420	2190	7.47	2.2
4/29/09	1500	2330	7.60	2.2
5/20/09	1390	2170	7.58	1.6
6/8/09	790	820	8.06	0.9
6/10/09	820	850	7.88	0.9

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APPENDIX F. DAILY MEANS

Table F1. Animal characteristics.

Table F1. Daily means (SD) of animal characteristics at Site NC3B for December, 2007.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$
1	815	91	128	759	94	123	742	88	106
2	814	92	129	758	95	124	740	89	106
3	814	92	130	756	95	125	739	90	107
4	813	93	120	755	96	116	737	90	107
5	812	93	121	754	97	116	735	91	107
6	811	94	121	753	97	117	734	92	108
7	811	94	122	752	98	118	732	92	108
8	810	95	122	751	98	118	731	93	108
9	809	95	123	750	99	119	729	93	109
10	808	95	123	749	100	119	728	94	109
11	807	96	124	748	100	120	727	94	110
12	806	96	124	747	101	120	725	95	110
13	805	97	124	746	101	121	724	95	110
14	804	97	125	745	102	121	722	96	111
15	803	97	125	744	102	122	720	96	111
16	803	98	126	743	103	122	718	97	111
17	802	98	126	742	103	123	716	97	111
18	801	99	126	741	104	123	713	98	111
19	801	99	127	741	104	124	711	98	111
20	800	99	127	741	105	124	709	98	112
21	715	99	113	656	104	110	708	99	112
22	615	98	96	556	104	93	707	99	112
23	614	98	96	555	104	93	706	100	113
24	613	98	96	555	105	93	706	100	113
25	612	99	97	554	105	93	705	100	113
26	611	99	97	553	106	94	704	101	114
27	610	99	97	552	106	94	703	101	114
28	610	99	97	551	106	94	618	99	98
29	609	100	97	550	107	94	518	97	80
30	609	100	98	549	107	94	516	97	80
31	608	100	98	548	107	94	513	97	80
Avg	741	97	115	682	102	112	698	96	107
n	31	31	31	31	31	31	31	31	31
SD	91	3	13	91	4	13	63	4	9
Min	608	91	96	548	94	93	513	88	80
Max	815	100	130	759	107	125	742	101	114

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for January, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$
1	607	101	98	547	108	94	509	98	80
2	607	101	98	546	108	94	505	98	79
3	606	101	99	545	108	95	502	98	79
4	606	102	99	544	109	95	500	99	79
5	606	102	99	543	109	95	499	99	79
6	606	103	100	542	109	95	499	99	79
7	606	103	100	541	110	95	499	100	79
8	606	104	101	540	110	95	498	100	80
9	606	104	101	540	111	96	498	100	80
10	364	90	55	525	111	93	497	101	80
11	42	38	4	508	111	90	497	101	80
12	0	0	0	507	111	90	497	101	81
13	0	0	0	506	112	90	497	102	81
14	0	0	0	505	112	91	497	102	82
15	0	0	0	504	113	91	497	103	82
16	0	0	0	504	113	91	497	103	82
17	0	0	0	273	57	35	269	52	32
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0
Avg	189	34	31	281	59	49	266	53	42
n	31	31	31	31	31	31	31	31	31
SD	274	47	45	259	54	46	245	49	39
Min	0	0	0	0	0	0	0	0	0
Max	607	104	101	547	113	96	509	103	82

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for February, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
Avg	0	0	0	0	0	0	0	0	0
n	29	29	29	29	29	29	29	29	29
SD	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for March, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	537	14	18	223	14	7	0	0	0
4	860	22	30	357	22	13	0	0	0
5	860	23	31	357	23	13	0	0	0
6	860	23	32	357	24	14	0	0	0
7	859	24	33	357	24	14	0	0	0
8	859	24	34	357	25	14	0	0	0
9	859	25	34	357	25	14	0	0	0
10	859	25	35	635	26	26	497	14	16
11	859	26	35	802	26	34	794	22	28
12	858	26	36	801	27	34	793	23	29
13	858	27	36	800	27	35	791	24	30
14	857	27	37	799	28	35	790	24	31
15	857	27	38	798	28	36	788	25	31
16	856	28	38	797	29	36	787	25	32
17	856	28	39	796	29	37	785	26	32
18	856	29	39	796	29	38	784	26	33
19	856	29	40	795	30	38	783	27	33
20	856	29	40	795	30	39	782	27	34
21	856	30	41	795	31	39	781	27	34
22	856	30	41	794	31	40	780	28	35
23	856	31	42	794	32	40	779	28	35
24	856	31	43	793	32	41	778	29	36
25	856	32	43	793	33	42	778	29	36
26	856	32	44	792	33	42	777	29	37
27	855	33	45	792	34	43	777	30	37
28	855	33	45	792	34	44	777	30	38
29	855	34	46	791	35	44	776	31	38
30	855	34	47	791	36	45	776	31	39
31	855	35	47	790	36	46	776	32	39
Avg	791	26	36	635	27	30	546	19	24
n	31	31	31	31	31	31	31	31	31
SD	215	8	11	253	8	14	353	13	16
Min	0	0	0	0	0	0	0	0	0
Max	860	35	47	802	36	46	794	32	39

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for April, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	855	35	48	790	37	47	776	32	40
2	855	36	49	789	38	47	776	33	40
3	855	36	50	789	38	48	776	33	41
4	854	37	51	788	39	49	775	34	42
5	854	38	52	787	40	50	775	34	42
6	854	38	53	787	40	51	775	35	43
7	854	39	54	786	41	52	775	35	44
8	854	40	55	786	42	53	775	36	44
9	853	41	56	786	43	54	774	36	45
10	853	41	57	786	44	55	774	37	46
11	853	42	58	786	45	56	774	38	47
12	852	43	59	786	46	57	773	38	47
13	852	44	60	786	46	58	773	39	48
14	852	45	61	786	47	60	773	40	49
15	852	46	62	785	48	61	773	40	50
16	852	46	63	785	49	62	773	41	51
17	852	47	65	785	50	63	773	42	52
18	851	48	66	784	51	65	772	43	53
19	851	49	67	784	52	66	772	43	54
20	851	50	68	784	54	67	772	44	55
21	851	51	70	783	55	69	772	45	56
22	850	52	71	783	56	70	772	46	57
23	850	53	72	783	57	71	771	47	58
24	849	54	74	783	58	73	771	48	59
25	848	55	75	783	59	74	771	49	60
26	848	56	76	783	60	75	770	50	61
27	847	57	78	783	61	77	770	51	62
28	847	58	79	783	63	78	770	51	63
29	847	59	81	783	64	80	770	52	65
30	847	60	82	782	65	81	770	53	66
Avg	851	47	64	785	50	62	773	41	51
n	30	30	30	30	30	30	30	30	30
SD	3	8	10	2	8	11	2	6	8
Min	847	35	48	782	37	47	770	32	40
Max	855	60	82	790	65	81	776	53	66

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for May, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	847	62	83	782	66	83	770	54	67
2	846	63	85	782	67	84	770	55	68
3	846	64	86	782	68	86	770	56	70
4	846	65	88	781	70	87	770	58	71
5	846	66	89	781	71	89	770	59	72
6	846	67	91	781	72	90	770	60	73
7	845	68	92	781	73	92	770	61	75
8	845	69	93	781	74	93	770	62	76
9	845	70	95	781	76	94	770	63	77
10	844	71	96	781	77	96	770	64	79
11	844	72	98	781	78	97	770	65	80
12	844	73	99	781	79	99	770	66	82
13	844	74	100	781	80	100	770	67	83
14	844	75	102	780	81	101	770	68	84
15	844	76	103	780	82	103	770	69	86
16	844	77	105	780	84	104	770	71	87
17	844	78	106	780	85	106	770	72	88
18	844	79	107	779	86	107	770	73	90
19	844	80	109	779	87	108	770	74	91
20	844	81	110	779	88	109	769	75	92
21	844	82	111	779	89	111	769	76	94
22	844	83	112	779	90	112	769	77	95
23	844	84	114	779	91	113	769	78	96
24	844	85	115	779	92	114	768	79	97
25	844	86	116	779	93	116	768	80	99
26	843	87	117	779	94	117	768	81	100
27	842	88	118	779	95	118	768	82	101
28	842	88	119	778	95	119	767	83	102
29	841	89	120	778	96	120	767	84	103
30	841	90	121	778	97	121	767	85	105
31	840	91	122	778	98	122	766	86	106
Avg	844	77	104	780	83	104	769	71	87
n	31	31	31	31	31	31	31	31	31
SD	2	9	12	1	10	12	1	10	12
Min	840	62	83	778	66	83	766	54	67
Max	847	91	122	782	98	122	770	86	106

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for June, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	839	92	123	777	99	123	766	87	107
2	839	92	124	777	100	124	766	88	108
3	838	93	125	777	100	125	765	89	109
4	838	94	126	777	101	126	764	90	110
5	838	94	126	777	102	127	764	91	111
6	837	95	127	777	103	127	763	92	112
7	837	96	128	776	103	128	762	93	113
8	836	96	129	776	104	129	761	94	114
9	835	97	130	776	104	130	761	94	115
10	834	98	130	776	105	130	761	95	116
11	833	98	131	775	106	131	761	96	117
12	832	99	131	774	106	132	761	97	118
13	830	99	132	773	107	132	760	98	119
14	829	100	132	772	107	133	760	98	120
15	828	100	133	771	108	133	760	99	120
16	827	101	133	770	109	134	760	100	121
17	826	101	134	769	109	134	759	100	122
18	825	102	134	769	110	135	758	101	123
19	824	102	135	769	110	136	757	102	123
20	823	103	135	769	111	136	756	103	124
21	822	103	136	768	111	137	755	103	125
22	821	104	136	768	112	138	754	104	125
23	821	104	137	768	112	138	754	104	126
24	736	104	122	683	113	123	669	105	113
25	636	103	105	583	113	106	569	106	96
26	636	103	105	582	114	106	568	106	97
27	636	104	106	581	114	106	568	107	97
28	635	104	106	581	115	107	567	107	98
29	635	105	106	580	115	107	566	108	98
30	635	105	107	579	116	107	566	109	98
Avg	789	100	126	732	108	126	719	99	113
n	30	30	30	30	30	30	30	30	30
SD	79	4	11	77	5	11	78	6	9
Min	635	92	105	579	99	106	566	87	96
Max	839	105	137	777	116	138	766	109	126

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for July, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	591	105	99	537	116	99	566	109	99
2	540	104	90	487	115	90	566	110	99
3	540	104	90	487	116	90	566	110	100
4	540	104	90	487	116	91	566	111	100
5	539	105	90	487	117	91	566	111	101
6	539	105	91	487	117	91	566	112	101
7	539	105	91	487	117	92	566	112	101
8	538	106	91	487	118	92	566	112	102
9	537	106	91	486	118	92	550	113	99
10	537	106	91	486	119	92	531	113	96
11	536	107	92	485	119	93	531	114	97
12	535	107	92	485	120	93	531	114	97
13	534	108	92	484	120	93	531	115	97
14	534	108	92	484	121	93	531	115	98
15	534	108	93	483	121	94	531	115	98
16	534	109	93	483	122	94	531	115	98
17	534	109	93	398	122	78	530	115	98
18	534	110	94	298	122	58	529	116	98
19	534	110	94	298	123	59	528	116	98
20	534	111	95	298	123	59	527	116	98
21	534	111	95	298	124	59	526	117	98
22	334	101	56	240	124	47	525	117	98
23	53	45	5	171	123	34	524	117	99
24	0	0	0	171	124	34	524	118	99
25	0	0	0	171	124	34	524	118	99
26	0	0	0	171	125	34	524	119	99
27	0	0	0	171	125	34	524	119	100
28	0	0	0	93	63	13	433	119	83
29	0	0	0	0	0	0	325	120	62
30	0	0	0	0	0	0	325	121	63
31	0	0	0	0	0	0	325	121	63
Avg	378	77	65	342	107	65	516	115	95
n	31	31	31	31	31	31	31	31	31
SD	241	47	41	173	37	33	67	3	11
Min	0	0	0	0	0	0	325	109	62
Max	591	111	99	537	125	99	566	121	102

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for August, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	0	0	0	0	0	0	325	122	63
2	0	0	0	0	0	0	325	122	64
3	0	0	0	0	0	0	325	123	64
4	522	14	17	461	14	16	325	123	64
5	835	22	30	738	23	28	325	124	64
6	835	23	30	737	24	29	176	62	25
7	835	23	31	737	25	29	0	0	0
8	835	24	32	737	26	30	0	0	0
9	835	25	33	737	26	31	0	0	0
10	835	25	34	736	27	32	0	0	0
11	835	26	34	736	27	32	459	14	15
12	835	26	35	736	28	33	735	22	26
13	835	27	36	735	28	33	735	23	27
14	835	27	36	735	29	34	735	24	28
15	835	28	37	735	29	35	734	24	28
16	835	28	38	734	30	35	734	25	29
17	835	29	38	734	30	36	734	25	30
18	834	29	39	733	31	36	734	26	30
19	834	30	39	733	31	37	734	26	31
20	834	30	40	733	32	37	734	27	31
21	833	30	41	733	32	38	734	27	32
22	833	31	41	733	33	39	733	28	32
23	833	31	42	732	34	39	733	28	33
24	832	32	43	732	34	40	733	28	33
25	832	33	43	732	35	41	733	29	34
26	831	33	44	732	35	41	733	29	34
27	831	34	45	731	36	42	733	30	35
28	831	34	46	731	37	43	733	30	36
29	830	35	46	731	37	44	732	31	36
30	830	36	47	730	38	45	732	31	37
31	829	36	48	730	39	46	732	32	37
Avg	743	26	34	654	28	32	546	40	32
n	31	31	31	31	31	31	31	31	31
SD	249	10	13	219	10	12	271	38	18
Min	0	0	0	0	0	0	0	0	0
Max	835	36	48	738	39	46	735	124	64

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for September, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	828	37	49	729	40	46	732	32	38
2	827	38	50	729	41	47	732	33	39
3	825	38	51	729	41	48	731	33	39
4	824	39	52	728	42	49	731	34	40
5	822	40	53	728	43	50	731	35	41
6	820	41	53	728	44	51	730	35	41
7	819	42	54	727	45	53	730	36	42
8	818	42	56	727	46	54	730	37	43
9	818	43	57	727	47	55	730	37	44
10	818	44	58	727	48	56	730	38	44
11	818	45	59	727	49	57	730	39	45
12	817	46	60	727	50	59	729	40	46
13	817	47	62	727	51	60	729	40	47
14	817	48	63	727	53	61	729	41	48
15	817	49	64	727	54	63	729	42	49
16	817	50	66	727	55	64	728	43	50
17	817	51	67	727	56	65	728	44	51
18	817	52	68	727	57	67	727	45	52
19	816	53	70	727	59	68	726	46	53
20	816	55	71	727	60	70	726	47	54
21	816	56	73	727	61	71	725	48	55
22	816	57	74	727	62	72	725	49	57
23	815	58	76	727	64	74	724	50	58
24	815	59	77	727	65	75	724	51	59
25	814	60	79	727	66	77	724	52	60
26	813	62	80	727	67	78	723	53	61
27	813	63	82	727	69	80	723	54	63
28	812	64	83	727	70	81	722	55	64
29	812	65	85	727	71	83	722	56	65
30	811	67	86	727	72	84	722	58	67
Avg	817	50	66	727	55	64	727	43	51
n	30	30	30	30	30	30	30	30	30
SD	4	9	11	1	10	12	3	8	9
Min	811	37	49	727	40	46	722	32	38
Max	828	67	86	729	72	84	732	58	67

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for October, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	811	68	88	727	74	86	722	59	68
2	811	69	90	727	75	87	722	60	69
3	810	70	91	726	76	89	721	61	71
4	810	71	93	726	78	90	721	62	72
5	809	73	94	726	79	92	721	64	73
6	809	74	96	726	80	93	721	65	75
7	808	75	97	726	81	94	720	66	76
8	808	76	99	726	82	96	720	67	77
9	808	78	100	726	84	97	720	68	79
10	807	79	102	726	85	98	719	70	80
11	807	80	103	726	86	100	719	71	81
12	806	81	105	726	87	101	718	72	83
13	806	82	106	726	88	102	718	73	84
14	806	83	108	725	89	104	718	74	85
15	805	85	109	725	90	105	718	76	87
16	805	86	110	725	91	106	718	77	88
17	805	87	112	724	92	107	717	78	90
18	804	88	113	724	93	108	717	79	91
19	804	89	114	724	94	109	717	80	92
20	804	90	116	723	95	110	717	81	93
21	803	91	117	723	96	111	717	83	95
22	802	92	118	723	97	112	717	84	96
23	801	93	119	722	98	113	717	85	97
24	800	94	120	722	99	114	716	86	98
25	799	95	121	722	100	115	716	87	100
26	798	96	123	722	101	116	716	88	101
27	797	97	124	721	102	117	716	89	102
28	796	98	125	721	103	118	716	90	103
29	795	99	125	721	103	119	716	91	104
30	794	99	126	721	104	120	716	92	105
31	793	100	127	721	105	121	715	93	106
Avg	804	85	109	724	91	105	718	76	88
n	31	31	31	31	31	31	31	31	31
SD	5	10	12	2	9	11	2	10	12
Min	793	68	88	721	74	86	715	59	68
Max	811	100	127	727	105	121	722	93	106

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for November, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	792	101	128	721	106	122	715	94	107
2	791	102	129	720	107	123	715	95	108
3	790	103	130	720	108	124	715	95	109
4	789	103	131	720	108	125	715	96	110
5	789	104	132	720	109	126	715	97	111
6	789	105	132	720	110	127	715	98	112
7	788	106	133	720	111	128	714	99	113
8	788	106	134	589	109	103	714	99	114
9	787	107	135	435	108	75	714	100	114
10	787	108	136	435	109	76	714	101	115
11	787	108	136	435	109	76	714	102	116
12	786	109	137	434	110	77	713	102	117
13	786	110	138	434	111	77	713	103	117
14	786	111	139	434	112	78	713	103	118
15	785	111	140	433	112	78	712	104	119
16	785	112	141	433	113	78	712	105	119
17	785	113	141	433	114	79	712	105	120
18	654	112	118	432	114	79	712	106	121
19	500	112	90	432	115	79	712	106	121
20	500	113	90	432	115	80	712	107	122
21	500	113	90	431	116	80	712	108	123
22	499	114	91	431	116	80	712	108	123
23	499	114	91	431	117	81	712	109	124
24	499	115	92	430	118	81	712	109	125
25	498	115	92	430	118	81	625	108	108
26	498	116	92	430	118	82	522	107	90
27	498	116	92	430	119	82	521	108	90
28	497	117	93	430	119	82	520	108	90
29	497	117	93	430	120	82	519	109	90
30	496	117	93	430	120	83	518	109	90
Avg	667	110	117	505	113	91	678	103	112
n	30	30	30	30	30	30	30	30	30
SD	140	5	21	122	4	20	73	5	11
Min	496	101	90	430	106	75	518	94	90
Max	792	117	141	721	120	128	715	109	125

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for December, 2008.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	496	118	94	430	121	83	518	109	91
2	496	118	94	430	121	83	518	110	91
3	495	119	94	430	121	84	517	110	91
4	495	119	94	429	122	84	517	111	91
5	495	119	95	429	122	84	517	111	92
6	494	120	95	429	123	84	516	111	92
7	494	120	95	429	123	84	516	112	92
8	494	120	95	428	123	85	516	112	93
9	494	121	96	428	124	85	515	112	93
10	494	121	96	428	124	85	515	113	93
11	494	122	96	428	125	85	514	113	93
12	494	122	97	428	125	86	513	114	93
13	494	123	97	428	126	86	513	114	94
14	494	123	97	427	126	86	512	115	94
15	494	124	98	427	127	87	512	115	95
16	494	124	98	427	127	87	512	116	95
17	494	125	99	427	128	87	455	117	85
18	494	125	99	427	128	88	387	118	73
19	494	126	100	427	129	88	387	119	73
20	494	127	100	427	130	89	387	119	74
21	494	127	101	231	65	34	210	60	28
22	268	64	38	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	525	14	17	245	14	8	0	0	0
30	840	22	30	392	22	14	0	0	0
31	840	23	31	661	22	24	505	14	17
Avg	415	87	69	326	84	58	341	76	59
n	31	31	31	31	31	31	31	31	31
SD	224	53	41	187	56	38	227	52	42
Min	0	0	0	0	0	0	0	0	0
Max	840	127	101	661	130	89	518	119	95

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for January, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	840	23	31	822	23	31	809	22	29
2	840	24	32	822	24	32	809	23	30
3	840	25	33	821	25	33	809	24	31
4	840	25	34	821	25	33	809	24	32
5	839	26	35	820	26	34	809	25	32
6	838	26	35	820	26	34	809	25	33
7	837	27	36	820	27	35	809	26	34
8	836	27	36	820	27	36	809	26	34
9	835	28	37	820	28	36	809	27	35
10	834	28	38	819	28	37	808	27	35
11	833	29	38	819	29	38	808	28	36
12	833	29	39	819	29	38	808	28	37
13	832	30	39	819	30	39	808	29	37
14	832	30	40	818	30	40	807	29	38
15	831	30	41	817	31	40	805	30	38
16	830	31	41	817	31	41	804	30	39
17	830	32	42	816	32	41	802	31	39
18	829	32	43	815	32	42	800	31	40
19	829	33	43	814	33	43	799	32	40
20	829	33	44	814	34	44	797	32	41
21	828	34	45	814	34	44	796	33	42
22	828	34	46	813	35	45	795	33	42
23	828	35	46	813	35	46	795	34	43
24	827	36	47	813	36	47	794	35	44
25	827	36	48	812	37	48	793	35	45
26	827	37	49	812	38	49	793	36	45
27	827	38	50	812	38	50	792	36	46
28	827	39	51	811	39	51	792	37	47
29	827	39	52	811	40	52	791	38	48
30	826	40	53	811	41	53	791	39	49
31	826	41	54	810	42	54	791	39	50
Avg	832	32	42	816	32	41	802	31	39
n	31	31	31	31	31	31	31	31	31
SD	5	5	6	4	5	7	7	5	6
Min	826	23	31	810	23	31	791	22	29
Max	840	41	54	822	42	54	809	39	50

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for February, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	826	42	55	810	43	55	790	40	51
2	826	43	57	809	43	56	790	41	52
3	825	44	58	809	44	57	789	42	53
4	825	45	59	808	45	59	789	43	54
5	825	46	60	807	46	60	788	44	55
6	824	47	61	807	47	61	788	45	56
7	824	48	63	806	48	63	788	46	58
8	823	49	64	805	50	64	787	47	59
9	823	50	66	804	51	65	787	48	60
10	823	51	67	804	52	67	787	49	61
11	823	52	68	804	53	68	786	50	63
12	823	53	70	803	54	70	786	51	64
13	822	54	71	803	55	71	785	52	65
14	822	56	73	803	56	72	784	53	66
15	822	57	75	802	58	74	783	54	68
16	822	58	76	802	59	76	782	55	69
17	821	59	78	802	60	77	781	56	71
18	821	60	79	802	61	79	781	58	72
19	821	62	81	801	63	80	781	59	73
20	820	63	82	801	64	82	780	60	75
21	820	64	84	801	65	83	780	61	76
22	819	65	86	800	66	85	780	62	78
23	819	67	87	800	68	87	779	64	79
24	819	68	89	800	69	88	779	65	81
25	818	69	91	800	70	90	779	66	82
26	818	70	92	800	71	91	779	67	84
27	818	72	94	800	73	93	779	69	86
28	817	73	96	799	74	95	779	70	87
Avg	822	57	74	803	57	74	784	54	68
n	28	28	28	28	28	28	28	28	28
SD	3	9	12	3	9	12	4	9	11
Min	817	42	55	799	43	55	779	40	51
Max	826	73	96	810	74	95	790	70	87

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for March, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	817	74	97	799	75	96	778	71	89
2	817	76	99	799	76	98	778	72	90
3	817	77	100	799	78	99	778	74	92
4	817	78	102	798	79	101	778	75	93
5	817	79	104	797	80	102	778	76	95
6	817	81	105	796	81	103	777	77	96
7	817	82	107	795	82	105	777	79	98
8	817	83	108	794	84	106	777	80	99
9	817	84	110	793	85	108	776	81	101
10	817	85	112	793	86	109	776	82	102
11	817	86	113	793	87	110	776	83	104
12	817	88	114	793	88	112	775	85	105
13	817	89	116	793	89	113	775	86	106
14	817	90	117	792	90	114	775	87	108
15	817	91	119	792	91	116	774	88	109
16	817	92	120	792	92	117	774	89	110
17	816	93	121	792	93	118	773	90	112
18	816	94	123	792	94	119	773	91	113
19	816	95	124	792	95	121	773	92	114
20	816	96	125	792	96	122	773	93	115
21	815	97	126	791	97	123	773	94	117
22	815	98	127	791	98	124	772	95	118
23	815	99	129	791	99	125	772	96	119
24	814	99	130	791	100	126	772	97	120
25	814	100	131	790	101	127	772	98	121
26	813	101	132	789	101	128	772	99	122
27	812	102	132	789	102	129	771	100	123
28	812	103	133	788	103	130	771	101	124
29	811	103	134	787	104	131	771	101	125
30	811	104	135	786	105	132	770	102	126
31	811	105	136	786	105	132	770	103	127
Avg	815	91	119	792	92	116	774	88	109
n	31	31	31	31	31	31	31	31	31
SD	2	9	12	3	9	11	3	10	12
Min	811	74	97	786	75	96	770	71	89
Max	817	105	136	799	105	132	778	103	127

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for April, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	811	105	137	786	106	133	770	104	128
2	811	106	137	786	107	134	770	104	129
3	810	107	138	786	108	135	769	105	129
4	810	107	139	786	108	136	769	106	130
5	810	108	140	786	109	137	769	106	131
6	810	108	140	701	108	121	768	107	132
7	810	109	141	601	107	103	768	108	132
8	810	109	142	601	107	103	768	108	133
9	810	110	142	600	108	104	768	109	134
10	810	110	143	600	109	104	768	109	135
11	810	111	144	600	109	105	768	110	135
12	810	111	144	599	110	105	768	111	136
13	810	112	145	599	110	106	768	111	137
14	810	112	146	599	111	106	768	112	137
15	810	113	146	598	111	107	768	112	138
16	810	114	147	598	112	107	768	113	139
17	725	113	131	598	112	108	768	113	139
18	625	112	112	597	113	108	768	114	140
19	625	113	113	597	114	108	768	115	141
20	625	113	113	596	114	109	768	115	142
21	582	113	105	553	114	101	683	116	127
22	532	112	95	503	114	92	583	116	108
23	531	112	96	503	114	92	498	115	92
24	531	113	96	503	115	92	398	113	72
25	531	113	96	502	115	92	398	113	72
26	530	114	96	502	115	93	398	114	72
27	530	114	97	502	116	93	397	114	73
28	530	114	97	502	116	93	397	114	73
29	529	115	97	501	116	94	397	115	73
30	529	115	98	501	117	94	397	115	73
Avg	697	111	124	603	112	107	664	111	118
n	30	30	30	30	30	30	30	30	30
SD	127	3	21	95	3	14	158	4	27
Min	529	105	95	501	106	92	397	104	72
Max	811	115	147	786	117	137	770	116	142

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for May, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	529	116	98	501	117	94	397	116	73
2	528	117	99	500	118	94	397	116	74
3	528	117	99	500	118	94	396	116	74
4	528	118	100	499	119	95	396	117	74
5	528	119	100	499	119	95	396	117	74
6	286	60	38	499	120	95	396	118	75
7	0	0	0	499	120	96	396	118	75
8	0	0	0	499	121	96	396	118	75
9	0	0	0	499	121	97	396	119	75
10	0	0	0	499	122	97	396	119	76
11	0	0	0	499	122	98	396	120	76
12	0	0	0	499	123	98	396	120	76
13	0	0	0	270	62	38	396	121	77
14	0	0	0	0	0	0	396	121	77
15	0	0	0	0	0	0	396	122	77
16	0	0	0	0	0	0	396	123	78
17	0	0	0	0	0	0	396	123	78
18	0	0	0	0	0	0	215	62	30
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	447	14	15	0	0	0	0	0	0
25	715	22	25	0	0	0	0	0	0
26	715	23	26	0	0	0	0	0	0
27	715	23	27	0	0	0	0	0	0
28	714	24	27	0	0	0	0	0	0
29	714	24	28	0	0	0	0	0	0
30	714	25	28	134	6	2	0	0	0
31	713	25	29	368	16	10	0	0	0
Avg	270	27	24	218	49	39	224	67	42
n	31	31	31	31	31	31	31	31	31
SD	310	42	35	237	57	46	193	58	37
Min	0	0	0	0	0	0	0	0	0
Max	715	119	100	501	123	98	397	123	78

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for June, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	711	26	29	401	18	12	0	0	0
2	708	26	30	401	19	12	0	0	0
3	706	27	30	401	19	12	0	0	0
4	704	27	31	647	19	20	506	11	13
5	701	28	31	794	20	26	810	18	23
6	699	28	31	793	21	26	810	19	24
7	697	28	32	792	21	27	810	19	25
8	696	29	32	791	22	27	810	20	26
9	694	29	32	789	22	28	810	20	26
10	693	30	33	786	22	28	810	21	27
11	692	30	33	784	23	29	810	21	28
12	690	30	34	782	23	29	809	22	28
13	689	31	34	779	24	30	809	22	29
14	688	31	35	777	24	30	808	23	29
15	687	32	35	776	25	30	808	23	30
16	686	32	36	775	25	31	807	24	31
17	685	33	36	774	25	31	807	24	31
18	684	34	37	773	26	32	806	24	32
19	683	34	37	772	26	32	806	25	32
20	682	35	38	771	27	33	805	25	33
21	681	35	38	770	27	33	805	26	33
22	681	36	39	769	27	34	805	26	34
23	681	37	40	768	28	34	804	27	34
24	681	37	41	767	28	35	804	27	35
25	680	38	41	766	29	36	803	28	36
26	680	39	42	765	29	36	803	28	36
27	680	39	43	764	30	37	802	29	37
28	680	40	44	763	31	37	802	29	38
29	679	41	45	762	31	38	801	30	38
30	679	42	45	761	32	39	800	31	39
Avg	689	33	36	734	25	29	716	21	28
n	30	30	30	30	30	30	30	30	30
SD	10	5	5	114	4	7	245	8	11
Min	679	26	29	401	18	12	0	0	0
Max	711	42	45	794	32	39	810	31	39

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for July, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	679	43	46	759	32	39	800	31	40
2	678	43	47	758	33	40	799	32	41
3	678	44	48	756	34	41	799	33	42
4	677	45	49	754	34	42	798	33	42
5	677	46	50	753	35	42	797	34	43
6	677	47	51	752	36	43	796	35	44
7	677	48	52	752	37	44	795	36	45
8	677	49	53	752	37	45	794	36	46
9	677	50	54	752	38	46	793	37	47
10	677	51	55	752	39	47	793	38	48
11	677	52	56	752	40	48	793	39	49
12	677	53	58	752	41	49	793	40	50
13	677	54	59	752	41	50	793	41	52
14	677	55	60	752	42	51	793	42	53
15	677	56	61	752	43	52	793	43	54
16	677	57	62	751	44	53	793	44	55
17	677	58	63	751	45	54	792	45	57
18	677	60	65	751	46	55	792	46	58
19	677	61	66	751	47	57	792	47	59
20	677	62	67	751	48	58	791	48	61
21	677	63	68	751	49	59	791	49	62
22	677	64	69	750	50	60	791	50	63
23	677	65	71	750	51	61	790	51	65
24	677	66	72	750	52	63	790	52	66
25	677	67	73	749	53	64	790	53	67
26	677	69	74	749	54	65	790	55	69
27	677	70	76	749	55	66	790	56	70
28	677	71	77	748	56	68	789	57	72
29	676	72	78	748	57	69	789	58	73
30	676	73	79	747	59	70	789	59	75
31	676	74	80	747	60	71	789	60	76
Avg	677	58	63	751	45	54	793	44	56
n	31	31	31	31	31	31	31	31	31
SD	0	10	10	3	8	10	3	9	11
Min	676	43	46	747	32	39	789	31	40
Max	679	74	80	759	60	71	800	60	76

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for August, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	676	75	82	746	61	73	788	62	78
2	676	76	83	746	62	74	788	63	79
3	676	78	84	745	63	75	787	64	81
4	676	79	85	745	64	76	786	65	82
5	676	80	86	744	65	78	786	66	84
6	676	81	87	744	66	79	785	68	85
7	676	82	88	743	67	80	785	69	86
8	676	83	90	742	69	81	785	70	88
9	676	84	91	742	70	83	785	71	89
10	675	85	92	741	71	84	785	72	91
11	675	86	93	741	72	85	785	74	92
12	675	87	94	740	73	86	785	75	94
13	675	88	95	740	74	88	785	76	95
14	674	89	96	740	75	89	784	77	97
15	674	89	96	739	76	90	783	78	98
16	674	90	97	739	77	91	783	79	99
17	673	91	98	738	78	92	782	80	100
18	673	92	99	738	79	94	782	81	102
19	673	93	100	737	80	95	781	82	103
20	672	94	101	737	81	96	780	84	104
21	672	94	101	737	82	97	780	85	105
22	671	95	102	736	83	98	780	86	107
23	671	96	103	736	84	99	780	87	108
24	671	96	103	736	85	100	780	87	109
25	670	97	104	735	86	101	779	88	110
26	670	98	105	735	87	102	779	89	111
27	670	98	105	735	88	103	779	90	112
28	669	99	106	735	89	104	779	91	113
29	669	100	107	735	89	105	779	92	114
30	668	100	107	734	90	106	778	93	115
31	667	101	108	734	91	107	778	94	116
Avg	673	90	96	739	77	91	783	79	98
n	31	31	31	31	31	31	31	31	31
SD	3	8	8	4	9	10	3	10	12
Min	667	75	82	734	61	73	778	62	78
Max	676	101	108	746	91	107	788	94	116

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for September, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	666	101	108	734	92	108	778	94	117
2	665	102	108	734	93	109	777	95	118
3	664	102	109	734	93	109	777	96	119
4	663	103	109	733	94	110	777	96	120
5	662	104	110	733	95	111	777	97	121
6	661	104	110	733	95	112	777	98	122
7	661	105	111	733	96	112	777	98	122
8	661	105	111	732	97	113	777	99	123
9	661	106	112	732	97	114	777	100	124
10	661	106	112	732	98	114	777	100	125
11	619	106	105	732	98	115	777	101	125
12	569	107	97	732	99	116	777	101	126
13	568	107	97	732	99	116	777	102	127
14	568	108	98	731	100	117	776	102	127
15	527	106	90	731	100	117	776	103	128
16	477	105	80	731	101	118	776	103	128
17	476	105	80	731	101	118	776	104	129
18	474	105	80	731	102	119	776	104	130
19	473	106	80	730	102	119	776	105	130
20	472	106	80	730	102	120	776	105	131
21	471	106	80	730	103	120	715	105	120
22	471	107	80	729	103	120	643	105	108
23	471	107	81	729	103	121	642	105	108
24	470	107	81	728	104	121	641	106	108
25	470	108	81	728	104	121	641	106	109
26	469	108	81	728	105	122	641	106	109
27	468	108	81	727	105	122	641	107	110
28	467	109	81	727	105	123	641	107	110
29	465	109	81	727	106	123	640	108	110
30	464	110	82	727	106	123	640	108	111
Avg	551	106	93	731	100	117	734	102	120
n	30	30	30	30	30	30	30	30	30
SD	87	2	14	2	4	5	62	4	8
Min	464	101	80	727	92	108	640	94	108
Max	666	110	112	734	106	123	778	108	131

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for October, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	463	110	82	726	106	124	640	108	111
2	461	111	82	726	107	124	640	109	112
3	460	111	82	726	107	125	640	109	112
4	459	112	82	726	108	125	640	110	113
5	459	113	83	726	108	126	553	110	98
6	249	57	32	726	109	126	450	109	78
7	0	0	0	682	109	119	449	108	77
8	0	0	0	629	110	111	448	108	77
9	0	0	0	625	110	110	447	109	78
10	0	0	0	623	111	111	446	109	78
11	0	0	0	579	110	102	444	110	78
12	0	0	0	528	109	92	442	110	78
13	0	0	0	345	102	57	439	111	78
14	0	0	0	69	47	7	237	56	30
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	432	15	16	437	13	13	0	0	0
20	691	25	28	699	20	23	0	0	0
21	691	26	28	699	21	24	0	0	0
22	691	26	29	699	22	24	0	0	0
23	691	27	30	699	22	25	0	0	0
24	691	27	30	699	23	26	0	0	0
25	691	28	31	699	24	27	0	0	0
26	691	29	32	699	24	27	465	15	17
27	691	29	32	699	25	28	745	25	30
28	691	30	33	699	25	28	745	26	31
29	690	30	33	699	26	29	745	27	32
30	690	31	34	699	26	30	744	27	32
31	690	31	34	699	27	30	744	28	33
Avg	364	31	27	557	57	58	358	52	44
n	31	31	31	31	31	31	31	31	31
SD	308	38	28	253	45	48	290	50	42
Min	0	0	0	0	0	0	0	0	0
Max	691	113	83	726	111	126	745	111	113

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for November, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	690	32	35	699	27	31	744	28	34
2	690	32	35	699	28	31	744	29	34
3	690	32	36	699	28	32	744	29	35
4	690	33	36	699	29	32	744	30	36
5	690	34	37	699	30	33	744	30	36
6	690	34	38	699	30	34	744	31	37
7	690	35	38	699	31	34	744	31	37
8	690	35	39	699	31	35	744	32	38
9	689	36	39	698	32	36	744	32	38
10	689	36	40	698	33	36	743	33	39
11	689	37	41	698	33	37	743	33	40
12	689	38	42	698	34	38	743	34	40
13	688	38	42	697	35	39	742	34	41
14	688	39	43	697	35	39	742	35	41
15	688	40	44	697	36	40	742	36	42
16	687	41	45	696	37	41	741	36	43
17	687	41	45	696	38	42	741	37	44
18	686	42	46	695	39	43	741	37	44
19	685	43	47	694	40	44	741	38	45
20	685	44	48	694	40	45	741	39	46
21	684	45	49	693	41	46	740	40	47
22	684	46	50	692	42	47	740	41	48
23	684	47	51	691	43	48	740	41	49
24	684	48	52	689	45	49	740	42	50
25	684	49	53	688	46	50	740	43	51
26	684	50	55	686	47	51	739	44	52
27	684	51	56	684	48	52	739	45	53
28	684	52	57	683	49	54	739	46	54
29	684	53	58	682	50	55	738	47	55
30	683	54	59	681	51	56	738	48	57
Avg	687	41	45	694	38	42	742	37	44
n	30	30	30	30	30	30	30	30	30
SD	3	7	7	6	7	8	2	6	7
Min	683	32	35	681	27	31	738	28	34
Max	690	54	59	699	51	56	744	48	57

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for December, 2009.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$	Inv., pigs	Mass, kg	$kg \cdot m^{-2}$
1	683	56	61	681	53	57	738	49	58
2	683	57	62	681	54	59	738	50	59
3	683	58	63	680	55	60	738	51	60
4	682	59	65	680	57	62	738	52	62
5	682	60	66	679	58	63	737	54	63
6	682	62	67	679	59	64	737	55	65
7	682	63	69	679	61	66	737	56	66
8	682	64	70	678	62	67	737	57	67
9	682	66	72	678	63	69	736	58	69
10	681	67	73	678	65	70	736	60	70
11	681	68	74	677	66	72	735	61	72
12	681	70	76	677	68	73	735	62	73
13	681	71	77	677	69	75	734	64	75
14	681	72	79	677	70	76	734	65	76
15	680	74	80	677	72	78	734	66	78
16	680	75	82	677	73	79	734	68	79
17	680	76	83	676	75	81	734	69	81
18	679	78	84	676	76	82	734	70	83
19	679	79	86	676	77	84	734	72	84
20	679	80	87	676	79	85	734	73	86
21	679	82	89	676	80	87	734	74	87
22	679	83	90	676	82	88	734	76	89
23	679	84	91	676	83	90	733	77	90
24	678	85	93	675	84	91	733	78	92
25	678	87	94	675	86	92	733	80	93
26	678	88	95	675	87	94	733	81	95
27	678	89	97	675	88	95	732	82	96
28	678	90	98	675	89	97	732	84	98
29	677	91	99	675	91	98	732	85	99
30	677	93	100	675	92	99	732	86	101
31	677	94	101	674	93	100	731	87	102
Avg	680	75	81	677	73	79	735	68	80
n	31	31	31	31	31	31	31	31	31
SD	2	12	12	2	12	13	2	12	14
Min	677	56	61	674	53	57	731	49	58
Max	683	94	101	681	93	100	738	87	102

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Table F1. Daily means (SD) of animal characteristics at Site NC3B for January, 2010.

Day	B1			B2			B3		
	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}	Inv., pigs	Mass, kg	kg·m^{-2}
1	676	95	103	674	94	102	731	89	104
2	676	96	104	674	95	103	731	90	105
3	676	97	105	674	97	104	731	91	106
4	675	98	106	673	98	105	730	92	107
5	674	99	106	673	99	106	730	93	109
6	673	100	107	672	100	107	730	94	110
7	672	101	108	671	101	108	730	95	111
8	671	102	109	671	102	109	730	96	112
9	670	102	110	670	103	110	730	97	113
10	669	103	111	670	103	111	729	98	114
11	668	104	111	669	104	112	729	99	115
12	668	105	112	669	105	113	729	100	116
13	667	106	113	669	106	113	729	101	117
14	666	106		668	107		729	101	
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Avg	671	101	108	671	101	108	730	95	111
n	14	14	13	14	14	13	14	14	13
SD	3	4	3	2	4	4	1	4	4
Min	666	95	103	668	94	102	729	89	104
Max	676	106	113	674	107	113	731	101	117

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Table F2. Weather variables.

Table F2. Daily means (SD) of weather at Site NC3B for December, 2007

Day	Temp., ºC	RH, %	Wind	Wind	Solar, W·m^{-2}	Atm P, kPa
1						
2						
3						
4	6.2 (0.3)	46.5 (3.8)	1.69 (1.56)	286 (90)		100.5 (0.2)
5	4.8 (1.1)	56.0 (1.7)	1.23 (1.14)	168 (80)		99.8 (0.2)
6	3.1 (0.1)	64.5 (3.2)	3.39 (2.49)	29 (120)		101.5 (0.5)
7	7.8 (2.6)	72.5 (1.4)	0.71 (0.59)	38 (121)		101.9 (0.1)
8	13.6 (0.8)	79.0 (2.3)	0.90 (1.07)	237 (93)		101.7 (0.1)
9	17.2 (1.3)	81.5 (0.9)	0.91 (0.77)	161 (60)		101.9 (0.1)
10	19.2 (0.1)	81.0 (0.6)	1.37 (1.14)	218 (30)		101.7 (0.1)
11	19.4 (0.3)	79.5 (1.4)	1.21 (0.95)	207 (34)		101.7 (0.1)
12	19.2 (0.5)	77.5 (0.3)				
13	17.0 (0.8)	70.0 (4.6)				
14	11.7 (2.3)	73.0 (6.4)				
15	7.8 (0.0)	87.5 (2.0)	3.66 (1.28)	48 (52)		101.1 (0.5)
16	5.0 (1.6)	70.5 (11.8)	3.79 (2.33)	284 (72)		99.6 (0.5)
17	1.7 (0.3)	56.0 (3.5)	2.95 (1.73)	295 (59)		101.3 (0.4)
18	2.5 (0.8)	69.5 (4.3)				102.0 (0.1)
19	5.0 (0.6)	74.5 (1.4)				101.5 (0.2)
20	7.0 (0.5)	77.5 (3.2)				101.3 (0.1)
21	10.3 (1.4)	81.0 (1.2)	4.24 (1.39)	43 (50)		101.1 (0.1)
22	14.7 (1.1)	87.5 (4.9)	3.88 (1.20)	44 (62)		101.6 (0.1)
23	12.5 (2.4)	82.5 (7.8)	2.59 (1.66)	170 (71)		100.9 (0.3)
24	8.1 (0.1)	68.5 (0.3)				101.2 (0.2)
25	6.1 (1.0)	78.0 (5.8)		36 (81)		101.4 (0.2)
26	5.6 (0.7)	90.0 (1.2)	3.51 (1.83)	335 (139)		100.6 (0.2)
27	8.4 (1.0)	90.0 (1.2)	0.66 (0.74)	211 (73)		101.1 (0.2)
28	15.0 (2.9)	86.0 (1.2)	1.51 (1.12)	136 (55)		101.4 (0.2)
29	17.2 (1.6)	89.5 (3.2)	2.43 (1.23)	209 (33)		100.8 (0.1)
30	11.7 (1.6)	88.0 (4.0)	1.12 (0.81)	180 (44)		100.6 (0.3)
31	8.4 (0.3)	70.5 (6.1)	1.55 (1.34)	10 (119)		100.9 (0.3)
Avg	10.2	76.0	2.17	213		101.2
n	28	28	20	21	0	25
SD	5.4	10.8	1.19	99.4		0.6
Min	1.7	46.5	0.66	10.0		99.6
Max	19.4	90.0	4.24	335		102.0

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Table F2. Daily means (SD) of weather at Site NC3B for January, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar, W·m^{-2}	Atm P, kPa
1	4.2 (2.1)	50.0 (5.8)	2.35 (1.78)	295 (98)		100.7 (0.2)
2	-0.8 (0.8)	41.5 (0.9)	4.27 (2.02)	308 (50)		101.4 (0.4)
3	-2.2 (0.0)	51.0 (4.6)	3.03 (2.11)	348 (146)		103.0 (0.3)
4	0.0 (1.3)	58.0 (0.6)	0.65 (0.77)	197 (77)		103.0 (0.2)
5	7.0 (2.7)	65.5 (4.9)	0.96 (1.04)	190 (50)		102.3 (0.2)
6	13.0 (0.8)	84.0 (5.8)	0.92 (1.02)	199 (65)		101.9 (0.1)
7	15.0 (0.3)	93.5 (0.3)	0.84 (0.95)	191 (57)		101.9 (0.1)
8	16.1 (0.3)	90.0 (1.7)	1.43 (1.23)	167 (37)		101.6 (0.2)
9	15.0 (1.0)	81.0 (3.5)	1.90 (1.49)	218 (62)		101.0 (0.1)
10	16.1 (1.6)	80.0 (2.9)	1.36 (0.79)	124 (68)		100.9 (0.3)
11	15.0 (2.3)	79.5 (3.2)	2.76 (1.53)	196 (31)		
12	9.5 (1.0)	77.0 (1.7)	2.04 (1.08)	25 (119)		
13	7.3 (0.3)	75.5 (2.6)	2.43 (1.04)	12 (141)		
14	4.2 (1.4)	62.5 (4.9)	1.58 (1.42)	270 (61)		
15	3.1 (0.8)	50.5 (2.0)	1.49 (1.79)	293 (77)		
16	4.4 (0.0)	66.5 (11.3)	1.26 (1.21)	6 (135)		
17	3.9 (0.3)	91.0 (2.9)	2.84 (1.21)	30 (121)		
18	3.3 (0.0)	96.5 (0.3)	1.42 (0.87)	275 (48)		
19	1.1 (1.3)	80.5 (9.5)	2.43 (1.30)	340 (143)		
20	-1.7 (0.3)	54.5 (5.5)	2.83 (2.05)	321 (91)		
21	1.4 (2.1)	59.5 (8.4)	1.84 (1.19)	37 (104)		
22	6.4 (0.8)	84.0 (5.8)	0.97 (0.72)	319 (108)		
23	6.7 (0.6)	89.5 (2.6)	1.38 (1.06)	333 (120)		
24	2.5 (1.8)	65.0 (11.5)	2.05 (1.79)	278 (87)		
25	0.8 (0.8)	55.5 (6.1)	2.31 (1.76)	7 (140)		
26	3.1 (0.5)	71.5 (3.2)	0.45 (0.39)	177 (65)		
27	3.6 (0.2)	71.0 (3.5)	1.59 (1.78)	322 (119)		
28	7.0 (2.1)	58.5 (3.8)	0.91 (1.08)	330 (118)		
29	9.8 (0.5)	57.0 (2.9)	2.79 (1.43)	205 (25)		
30	6.7 (1.3)	55.0 (4.0)	3.28 (1.91)	282 (107)		
31	8.3 (2.3)	70.0 (12.7)	3.04 (1.85)	37 (82)		
Avg	6.1	69.8	1.92	301		101.8
n	31	31	31	31	0	10
SD	5.3	14.7	0.89	114		0.8
Min	-2.2	41.5	0.45	6.4		100.7
Max	16.1	96.5	4.27	348		103.0

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Table F2. Daily means (SD) of weather at Site NC3B for February, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar, W·m^{-2}	Atm P, kPa
1	10.0 (1.3)	81.5 (6.1)	3.19 (1.78)	213 (78)		
2	8.6 (0.5)	71.5 (0.3)	0.99 (0.74)	190 (83)		
3	11.3 (1.1)	76.5 (2.6)	0.68 (0.79)	208 (78)		
4	18.3 (2.9)	86.0 (2.9)	0.93 (1.00)	186 (63)		
5	22.8 (0.3)	82.0 (5.2)	2.42 (1.33)	207 (31)		
6	17.2 (2.9)	67.0 (3.5)	3.84 (1.39)	203 (27)		
7	10.6 (1.0)	67.5 (3.8)	2.59 (1.79)	240 (56)		
8	10.0 (0.6)	78.5 (2.6)	1.19 (1.35)	268 (97)		
9	11.4 (0.2)	56.5 (15.3)	1.94 (1.60)	190 (50)		
10	7.5 (2.4)	29.5 (0.3)	3.50 (2.13)	261 (31)		
11	6.1 (1.6)	52.0 (13.3)	1.74 (1.50)	39 (119)		
12	11.1 (1.3)	86.0 (6.4)	2.77 (1.87)	141 (43)		
13	9.2 (2.4)	87.0 (5.8)	3.08 (1.47)	233 (89)		
14	6.4 (0.8)	71.0 (3.5)	2.19 (1.75)	328 (115)		
15	8.4 (0.3)	67.0 (1.2)	1.17 (1.04)	206 (44)		
16	10.5 (1.0)	75.5 (3.8)	2.36 (1.75)	51 (100)		
17	13.9 (1.0)	85.0 (1.7)	2.47 (1.25)	122 (58)		
18	11.7 (2.3)	65.5 (13.0)	3.68 (1.49)	223 (35)		
19	8.1 (0.1)	48.5 (3.2)	2.33 (2.12)	251 (54)		
20	5.8 (1.4)	60.5 (3.8)	2.41 (1.88)	221 (46)		
21	3.3 (0.0)	81.5 (8.4)	3.72 (1.44)	58 (49)		
22	6.7 (1.9)	96.5 (0.3)	2.01 (1.12)	327 (123)		
23	8.6 (0.8)	82.5 (8.4)	1.69 (1.12)	242 (98)		
24	7.8 (0.3)	71.5 (2.0)	2.50 (1.56)	41 (107)		
25	10.2 (1.1)	82.5 (4.3)	1.01 (1.09)	250 (100)		
26	9.2 (1.8)	68.0 (12.7)	2.83 (1.63)	190 (41)		
27	3.6 (1.4)	46.0 (0.0)	3.98 (1.47)	301 (35)		
28	2.8 (1.0)	49.5 (2.0)	2.17 (1.74)	303 (100)		
29	8.9 (2.6)	55.0 (1.2)	1.74 (1.49)	159 (53)		
Avg	9.6	69.9	2.31	224		
n	29	29	29	29	0	0
SD	4.3	15.0	0.92	78.3		
Min	2.8	29.5	0.68	38.7		
Max	22.8	96.5	3.98	328		

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Table F2. Daily means (SD) of weather at Site NC3B for March, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	11.4 (1.1)	52.0 (2.9)	3.32 (1.75)	247 (42)		
2	10.8 (0.8)	59.0 (6.9)				
3	15.2 (1.8)	75.5 (2.6)				
4	16.4 (1.1)	76.5 (2.0)				
5	13.3 (0.6)	69.0 (2.3)				
6	13.0 (0.5)	81.0 (9.2)	1.42 (1.03)	45 (89)		
7	13.1 (0.5)	89.5 (4.3)	2.04 (1.28)	96 (64)		
8	8.9 (1.9)	63.5 (10.7)	4.49 (2.36)	216 (42)		
9	6.7 (0.6)	50.5 (3.2)	2.16 (1.72)	307 (92)		
10	9.5 (1.0)	59.0 (1.7)	1.30 (1.18)	136 (68)		
11	12.2 (0.6)	55.5 (3.8)	0.99 (0.90)	218 (83)		
12	13.3 (0.0)	51.5 (1.4)	2.08 (1.75)	257 (74)		
13	15.0 (1.0)	53.5 (0.3)	1.67 (1.36)	189 (61)		
14	16.2 (0.3)	67.0 (8.1)	2.65 (1.57)	189 (21)		
15	13.9 (1.0)	86.0 (2.9)	2.02 (1.31)	211 (75)		
16	10.0 (1.3)	71.0 (11.5)	3.53 (2.10)	322 (109)		100.6 (0.8)
17	8.9 (0.6)	61.5 (6.1)	3.03 (2.00)	39 (88)		102.2 (0.2)
18	14.4 (2.6)	76.0 (2.3)	1.74 (1.27)	133 (61)		101.8 (0.4)
19	17.3 (1.0)	69.0 (6.4)	4.49 (2.43)	189 (27)		100.3 (0.5)
20	13.7 (1.1)	48.5 (5.5)	4.75 (2.79)	297 (61)		100.3 (0.7)
21	13.9 (1.3)	47.0 (4.6)	1.73 (1.19)	286 (105)		101.4 (0.2)
22	12.5 (2.1)	51.0 (2.3)	3.09 (1.94)	223 (55)		100.4 (0.3)
23	8.4 (0.3)	52.0 (2.9)	3.12 (1.94)	33 (114)		101.0 (0.1)
24	7.5 (0.2)	53.0 (2.3)	3.73 (1.53)	1 (164)		101.1 (0.2)
25	10.2 (1.8)	48.0 (0.6)	2.25 (1.06)	312 (118)		101.8 (0.2)
26	15.0 (1.0)	49.0 (1.2)	2.60 (1.33)	213 (29)	250 (318)	101.5 (0.2)
27	18.3 (1.0)	54.5 (2.0)	2.99 (1.53)	205 (29)	256 (326)	100.9 (0.3)
28	16.4 (2.1)	66.5 (4.9)	3.01 (1.59)	211 (30)	247 (318)	100.6 (0.1)
29	9.8 (1.8)	80.0 (2.9)	4.21 (1.47)	41 (75)	52 (76)	101.6 (0.4)
30	10.5 (2.2)	92.0 (4.0)	4.02 (1.00)	42 (37)	22 (34)	102.2 (0.1)
31	17.7 (1.9)	92.5 (3.8)	2.56 (1.27)	115 (60)	78 (124)	101.8 (0.2)
Avg	12.7	64.5	2.78	225	151	101.2
n	31	31	27	27	6	16
SD	3.1	14.0	1.03	94.8	102	0.6
Min	6.7	47.0	0.99	1.0	22	100.3
Max	18.3	92.5	4.75	322	256	102.2

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Table F2. Daily means (SD) of weather at Site NC3B for April, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	17.8 (1.9)	78.5 (4.3)	3.12 (1.24)	185 (22)	144 (220)	101.1 (0.2)
2	12.8 (1.0)	74.5 (2.0)	3.52 (1.77)	46 (103)	238 (322)	101.4 (0.3)
3	13.9 (1.6)	88.0 (5.8)	2.03 (1.08)	62 (86)	25 (35)	101.7 (0.4)
4	17.5 (0.5)	96.0 (1.2)	2.09 (1.39)	215 (60)	109 (171)	100.7 (0.3)
5			1.52 (1.20)	111 (87)	11 (28)	100.4 (0.2)
6	16.3 (2.5)	88.4 (2.4)	2.49 (1.62)	7 (133)	40 (56)	100.6 (0.3)
7	12.1 (1.5)	84.8 (4.6)	3.85 (1.05)	33 (78)	107 (189)	101.1 (0.1)
8	13.5 (2.6)	77.9 (8.0)	3.59 (0.99)	21 (120)	146 (237)	101.3 (0.1)
9	16.3 (3.2)	78.5 (9.3)	2.13 (1.27)	26 (134)	120 (145)	101.2 (0.1)
10	18.9 (4.3)	76.6 (14.4)	1.15 (0.80)	101 (83)	193 (296)	101.0 (0.1)
11	22.3 (4.8)	69.9 (19.7)	2.27 (1.54)	202 (37)	252 (351)	100.5 (0.3)
12	22.6 (4.0)	68.1 (11.7)	3.91 (1.54)	219 (31)	189 (294)	99.8 (0.2)
13	17.8 (3.1)	50.8 (17.2)	2.70 (1.48)	285 (73)	267 (344)	99.9 (0.2)
14	11.2 (3.4)	61.8 (14.4)	1.60 (1.11)	359 (133)	155 (253)	100.5 (0.1)
15	11.4 (3.4)	54.5 (20.2)	3.53 (2.74)	18 (139)	288 (364)	101.0 (0.2)
16	11.2 (6.2)	51.2 (23.7)	2.32 (2.33)	24 (137)	313 (375)	101.4 (0.1)
17	15.5 (8.6)	48.5 (24.5)	1.30 (1.45)	339 (123)	308 (370)	101.1 (0.2)
18	20.9 (7.3)	44.5 (19.2)	1.61 (1.12)	223 (42)	292 (360)	100.9 (0.1)
19	21.3 (5.0)	55.6 (16.1)	2.67 (1.67)	193 (31)	273 (346)	100.6 (0.2)
20	20.3 (3.8)	66.7 (22.2)	1.89 (1.10)	206 (67)	192 (312)	100.2 (0.1)
21	15.3 (2.6)	81.6 (10.3)	1.61 (1.13)	347 (146)	106 (181)	100.3 (0.1)
22	18.5 (3.1)	77.6 (11.4)	3.94 (1.50)	31 (93)	140 (234)	100.4 (0.2)
23	19.6 (2.3)	78.3 (7.9)	2.77 (1.71)	36 (91)	148 (236)	100.9 (0.1)
24	20.1 (4.9)	70.8 (18.3)	1.07 (0.94)	51 (109)	270 (357)	101.2 (0.1)
25	21.3 (5.4)	64.3 (18.3)	1.25 (1.02)	174 (78)	261 (339)	101.1 (0.1)
26	22.9 (5.1)	64.4 (16.5)	1.73 (1.24)	206 (36)	278 (351)	100.8 (0.1)
27	21.7 (3.4)	77.5 (12.4)	0.98 (0.89)	183 (79)	172 (274)	100.7 (0.1)
28	20.8 (2.0)	82.1 (7.2)	2.25 (1.29)	195 (40)	92 (143)	100.1 (0.3)
29	14.9 (2.6)	57.2 (19.7)	2.90 (2.22)	316 (69)	309 (374)	100.3 (0.3)
30	13.5 (4.7)	57.6 (17.5)	1.63 (1.34)	0 (140)	316 (373)	101.0 (0.1)
Avg	17.3	69.9	2.31	25.6	192	100.8
n	29	29	30	30	30	30
SD	3.7	13.2	0.89	112	90	0.5
Min	11.2	44.5	0.98	0.0	11	99.8
Max	22.9	96.0	3.94	359	316	101.7

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Table F2. Daily means (SD) of weather at Site NC3B for May, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	17.5 (6.6)	59.9 (17.8)	1.86 (1.41)	165 (46)	292 (359)	101.1 (0.1)
2	21.3 (4.7)	65.2 (16.0)	2.42 (1.42)	191 (34)	279 (351)	101.0 (0.1)
3	21.8 (4.2)	67.7 (16.7)	2.23 (1.42)	192 (28)		100.6 (0.2)
4	23.5 (4.3)	67.3 (18.4)	1.59 (0.88)	201 (76)	287 (376)	100.5 (0.1)
5	19.7 (2.9)	81.4 (8.4)	1.11 (1.02)	48 (112)	120 (206)	100.6 (0.1)
6	20.3 (4.6)	68.8 (18.9)	0.98 (0.83)	36 (120)	272 (336)	100.7 (0.1)
7	21.7 (5.4)	62.4 (18.8)	1.87 (1.37)	192 (50)	287 (354)	100.7 (0.1)
8	23.0 (2.9)	73.3 (8.7)	2.58 (1.20)	188 (30)	141 (165)	100.2 (0.2)
9	25.6 (3.0)	66.8 (14.0)	3.05 (1.76)	236 (67)	242 (337)	99.4 (0.1)
10	22.7 (4.7)	65.8 (17.2)	2.59 (1.88)	357 (134)	302 (358)	99.8 (0.2)
11	18.9 (4.7)	73.6 (11.5)	2.54 (1.48)	86 (96)	150 (237)	99.2 (0.7)
12	17.1 (2.2)	60.3 (8.8)	4.29 (1.80)	315 (110)	171 (259)	99.4 (0.5)
13	15.7 (4.3)	56.4 (17.5)	2.93 (2.10)	4 (150)	331 (381)	100.9 (0.2)
14	18.7 (5.7)	56.5 (17.2)	1.48 (1.10)	212 (48)	261 (317)	101.0 (0.2)
15	21.8 (3.5)	70.6 (10.8)	1.54 (1.06)	204 (35)	163 (223)	100.6 (0.2)
16	24.3 (3.5)	68.8 (14.9)	3.50 (1.28)	241 (59)	199 (304)	99.6 (0.3)
17	20.0 (3.8)	50.5 (15.4)	2.19 (1.22)	277 (81)	337 (386)	99.9 (0.2)
18	20.6 (4.8)	65.8 (19.7)	2.80 (1.89)	220 (44)	270 (331)	99.3 (0.3)
19	20.9 (4.5)	61.0 (21.2)	1.67 (1.42)	259 (77)	323 (378)	99.6 (0.2)
20	23.2 (5.3)	67.5 (16.1)	3.01 (2.12)	215 (69)	196 (280)	99.1 (0.3)
21	21.2 (3.8)	65.7 (18.6)	1.17 (1.14)	292 (94)	277 (356)	99.3 (0.1)
22	20.9 (5.5)	55.4 (22.5)	1.50 (1.52)	313 (105)	333 (381)	99.9 (0.2)
23	21.5 (5.0)	59.7 (17.7)	1.23 (1.18)	50 (105)	266 (336)	100.4 (0.1)
24	18.8 (2.7)	76.8 (9.8)	1.72 (1.44)	29 (124)	134 (243)	100.5 (0.1)
25	20.7 (5.4)	59.1 (19.9)	0.89 (0.95)	39 (115)	313 (383)	101.0 (0.1)
26	21.6 (6.0)	59.6 (17.2)	1.65 (1.37)	169 (63)	321 (370)	100.9 (0.2)
27	24.3 (5.0)	63.1 (15.5)	2.29 (1.31)	202 (32)	313 (360)	100.7 (0.1)
28	18.6 (3.5)	81.3 (6.8)	2.55 (1.70)	41 (99)	37 (64)	101.0 (0.3)
29	19.7 (4.6)	63.0 (19.4)	1.81 (1.22)	55 (87)	317 (371)	101.2 (0.1)
30	23.5 (5.3)	70.1 (14.5)	1.41 (1.18)	167 (67)	273 (349)	101.0 (0.1)
31	26.4 (4.2)	72.9 (13.2)	2.41 (1.34)	204 (29)	261 (308)	100.6 (0.3)
Avg	21.1	65.7	2.09	216	249	100.3
n	31	31	31	31	30	31
SD	2.4	7.2	0.78	95.2	76	0.7
Min	15.7	50.5	0.89	4.4	37	99.1
Max	26.4	81.4	4.29	357	337	101.2

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Table F2. Daily means (SD) of weather at Site NC3B for June, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	27.1 (5.1)	67.3 (18.6)	1.90 (1.11)	237 (65)	284 (352)	100.3 (0.1)
2	25.0 (3.7)	63.8 (20.5)	1.55 (1.32)	19 (132)	285 (361)	100.5 (0.2)
3	24.8 (4.0)	66.7 (14.8)	1.85 (1.27)	161 (35)	243 (296)	100.6 (0.2)
4	28.2 (4.9)	69.9 (13.2)	2.65 (1.14)	191 (33)	266 (339)	100.3 (0.1)
5	30.5 (4.5)	63.4 (13.7)	1.98 (0.91)	216 (44)	269 (337)	100.7 (0.2)
6	30.9 (4.8)	63.0 (16.6)	1.56 (0.96)	223 (45)	293 (347)	101.1 (0.1)
7	31.1 (4.9)	61.2 (18.8)	1.39 (1.06)	228 (52)	311 (354)	101.0 (0.2)
8	31.6 (5.5)	60.3 (18.7)	1.24 (0.95)	216 (53)	304 (359)	100.7 (0.2)
9	31.8 (5.2)	59.1 (16.7)	1.31 (0.80)	221 (72)	301 (357)	100.5 (0.1)
10	30.3 (4.5)	61.9 (16.4)	1.77 (1.04)	199 (34)	295 (344)	100.5 (0.1)
11						
12						
13	26.7 (4.5)	63.9 (15.8)	1.40 (1.20)	110 (92)	297 (351)	101.2 (0.1)
14	27.2 (5.2)	64.4 (16.8)	1.43 (1.17)	173 (82)	285 (354)	100.7 (0.2)
15	25.3 (2.9)	77.9 (8.9)	0.87 (0.70)	216 (76)	141 (220)	100.3 (0.1)
16	27.4 (4.8)	66.5 (16.5)	1.61 (1.12)	195 (38)	274 (346)	100.2 (0.1)
17	28.1 (3.8)	61.8 (18.9)	1.64 (0.93)	304 (114)	251 (301)	99.9 (0.1)
18	24.1 (4.2)	49.2 (15.4)	1.87 (1.19)	5 (147)	318 (372)	100.1 (0.1)
19	24.4 (6.4)	53.1 (22.1)	1.12 (1.01)	310 (116)	320 (376)	100.3 (0.1)
20	23.5 (4.6)	67.7 (13.2)	1.17 (1.20)	210 (98)	194 (272)	100.8 (0.1)
21	23.1 (3.3)	77.6 (9.7)	1.01 (0.88)	126 (82)	159 (237)	100.8 (0.1)
22	24.6 (3.3)	78.2 (12.2)	1.03 (1.01)	163 (75)	151 (262)	100.6 (0.1)
23	25.9 (3.6)	72.9 (13.0)	1.27 (0.97)	207 (47)	226 (303)	100.5 (0.1)
24	27.1 (5.2)	60.0 (21.7)	1.30 (1.10)	292 (104)	316 (362)	101.1 (0.2)
25	28.3 (5.8)	61.8 (22.1)	1.48 (1.22)	172 (72)	286 (352)	101.2 (0.1)
26	29.6 (4.6)	63.5 (20.9)	2.11 (1.15)	208 (32)	276 (335)	100.8 (0.2)
27	28.9 (3.8)	64.3 (15.8)	2.13 (1.34)	211 (30)	261 (331)	100.6 (0.1)
28	30.2 (4.2)	62.6 (17.3)	2.40 (1.22)	217 (36)	274 (329)	100.6 (0.1)
29	28.3 (3.6)	66.7 (13.7)	3.07 (1.34)	209 (33)	243 (308)	100.4 (0.1)
30	28.1 (3.3)	64.1 (16.9)	2.67 (1.00)	220 (39)	211 (305)	100.2 (0.1)
Avg	27.6	64.7	1.67	209	262	100.6
n	28	28	28	28	28	28
SD	2.5	6.4	0.54	66.7	49	0.3
Min	23.1	49.2	0.87	5.1	141	99.9
Max	31.8	78.2	3.07	310	320	101.2

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Table F2. Daily means (SD) of weather at Site NC3B for July, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	25.3 (3.7)	51.4 (13.5)	2.01 (1.53)	311 (88)	310 (365)	100.5 (0.2)
2	25.7 (6.7)	50.3 (21.5)	1.23 (1.08)	205 (98)	315 (367)	100.9 (0.1)
3	26.7 (5.5)	56.6 (19.0)	1.73 (1.29)	176 (47)	272 (339)	100.9 (0.1)
4	27.8 (4.5)	66.4 (16.4)	1.99 (1.33)	185 (45)	243 (336)	100.8 (0.2)
5						
6						
7						
8						
9	26.3 (3.7)	78.3 (10.5)	2.01 (1.19)	193 (44)	140 (175)	100.7 (0.1)
10	27.1 (4.2)	74.0 (16.3)	1.67 (1.07)	241 (80)	261 (437)	100.7 (0.1)
11						
12	26.5 (4.1)	66.2 (18.3)	1.60 (1.52)	66 (78)	312 (355)	100.8 (0.1)
13	26.5 (5.3)	64.8 (16.5)	1.05 (0.93)	180 (62)	281 (344)	100.3 (0.2)
14	25.9 (3.5)	78.0 (11.0)	1.17 (1.02)	212 (86)	191 (279)	100.2 (0.1)
15	26.3 (2.9)	77.4 (12.9)	1.96 (1.31)	69 (89)	203 (300)	100.6 (0.2)
16	26.4 (4.0)	62.7 (16.0)	1.95 (1.68)	61 (84)	303 (365)	100.9 (0.1)
17	26.5 (5.5)	61.4 (18.8)	1.69 (1.69)	67 (74)	315 (362)	100.9 (0.1)
18	26.7 (3.5)	75.6 (10.7)	1.29 (1.17)	115 (74)	225 (309)	100.8 (0.1)
19	26.8 (2.7)	79.2 (8.6)	1.47 (1.01)	86 (65)	206 (284)	100.6 (0.1)
20	28.7 (3.5)	71.9 (13.1)	2.65 (1.55)	286 (100)	238 (304)	100.3 (0.1)
21	30.6 (4.5)	62.9 (14.3)	1.57 (1.02)	255 (55)	298 (347)	100.3 (0.1)
22	28.7 (5.3)	69.1 (17.1)	1.34 (1.47)	206 (55)	254 (340)	100.4 (0.1)
23	24.7 (3.1)	82.6 (8.0)	1.65 (1.24)	172 (43)	126 (209)	100.4 (0.1)
24	26.0 (3.9)	73.7 (16.1)	0.94 (0.76)	257 (80)	241 (321)	100.6 (0.1)
25	25.1 (4.2)	74.1 (14.8)	0.55 (0.56)	101 (91)	157 (226)	
26	26.0 (4.3)	71.0 (15.4)	0.87 (0.89)	204 (84)	203 (285)	
27	27.3 (2.9)	78.9 (9.0)	1.29 (0.96)	182 (25)	219 (300)	
28	29.1 (3.7)	69.4 (18.7)	1.01 (0.88)	243 (85)	293 (354)	
29	28.8 (3.9)	72.5 (13.3)	1.43 (1.08)	201 (27)	251 (300)	
30						
31						
Avg	26.9	69.5	1.50	187	244	100.6
n	24	24	24	24	24	19
SD	1.4	8.5	0.46	71.5	55	0.2
Min	24.7	50.3	0.55	61.2	126	100.2
Max	30.6	82.6	2.65	311	315	100.9

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Table F2. Daily means (SD) of weather at Site NC3B for August, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1						
2						
3						
4						
5						
6						
7						
8						
9	25.0 (3.9)	77.3 (12.3)	1.22 (1.07)	131 (99)	222 (329)	
10	25.4 (3.4)	74.2 (11.7)	1.55 (1.40)	191 (53)	181 (240)	100.2 (0.1)
11	23.8 (4.8)	70.4 (18.2)	1.50 (1.36)	258 (93)	284 (345)	100.1 (0.1)
12	24.3 (5.2)	63.8 (18.6)	1.02 (0.89)	120 (92)	292 (349)	100.2 (0.1)
13	21.6 (1.1)	87.4 (2.3)	1.39 (0.95)	70 (89)	31 (47)	99.9 (0.1)
14	23.6 (4.1)	74.9 (14.4)	0.97 (0.72)	215 (77)	245 (330)	100.2 (0.2)
15	25.4 (4.8)	72.7 (14.8)	1.03 (1.13)	168 (90)	251 (322)	100.5 (0.1)
16	24.8 (3.1)	77.6 (12.1)	1.00 (0.91)	72 (101)	193 (231)	100.6 (0.1)
17	24.4 (2.3)	80.0 (8.9)	0.56 (0.52)	89 (88)	88 (131)	100.7 (0.1)
18	25.3 (4.2)	73.9 (14.6)	1.00 (0.94)	84 (72)	231 (308)	100.6 (0.1)
19	26.5 (4.9)	70.7 (16.3)	0.81 (0.72)	142 (81)	254 (328)	100.6 (0.1)
20	26.5 (4.5)	71.2 (17.2)	1.35 (1.22)	89 (74)	265 (337)	100.8 (0.1)
21	25.8 (3.1)	74.9 (12.1)	2.56 (1.25)	68 (20)	166 (252)	101.1 (0.1)
22	25.3 (3.8)	70.3 (10.5)	2.65 (1.35)	69 (30)	240 (324)	101.2 (0.1)
23	25.7 (3.7)	69.1 (13.7)	1.56 (1.30)	75 (45)	230 (314)	101.1 (0.2)
24	26.2 (4.4)	71.1 (16.4)	0.90 (0.72)	114 (72)	257 (347)	100.7 (0.2)
25						
26						
27	26.7 (2.0)	85.3 (6.6)	1.68 (0.98)	119 (46)	129 (223)	100.2 (0.1)
28	28.1 (2.6)	79.4 (11.6)	1.02 (0.70)	179 (47)	189 (290)	100.1 (0.1)
29	26.9 (3.8)	79.5 (13.1)	0.88 (1.01)	181 (72)	184 (280)	100.3 (0.1)
30	27.9 (4.0)	76.2 (14.6)	0.71 (0.65)	179 (58)	212 (298)	100.6 (0.1)
31	27.8 (3.3)	74.8 (12.0)	1.82 (1.43)	66 (82)	235 (309)	100.8 (0.1)
Avg	25.6	75.0	1.29	121	208	100.5
n	21	21	21	21	21	20
SD	1.5	5.3	0.54	55.2	63	0.4
Min	21.6	63.8	0.56	65.8	31	99.9
Max	28.1	87.4	2.65	258	292	101.2

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Table F2. Daily means (SD) of weather at Site NC3B for September, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	25.3 (3.8)	65.4 (19.7)	1.94 (1.52)	54 (57)	262 (326)	101.0 (0.1)
2	23.8 (5.7)	65.3 (20.3)	0.83 (0.98)	51 (108)	274 (338)	100.8 (0.1)
3	25.2 (6.2)	64.5 (19.1)	0.72 (0.75)	177 (91)	267 (330)	100.5 (0.1)
4	25.4 (5.6)	67.5 (16.5)	0.86 (0.83)	125 (65)	265 (334)	100.5 (0.1)
5	24.4 (2.2)	86.5 (4.5)	2.66 (1.77)	57 (29)	74 (119)	100.1 (0.3)
6						
7						
8						
9						
10						
11	24.8 (2.0)	84.7 (8.3)	1.82 (1.06)	32 (111)	104 (165)	101.3 (0.1)
12	26.5 (3.4)	78.9 (13.0)	0.74 (0.62)	116 (89)	186 (286)	101.1 (0.2)
13	27.8 (3.5)	77.3 (12.7)	1.06 (0.94)	223 (42)	202 (299)	100.7 (0.1)
14	28.2 (3.0)	76.8 (12.1)	1.86 (1.23)	211 (27)	216 (291)	100.3 (0.2)
15	27.9 (3.4)	74.9 (11.0)	2.07 (0.98)	256 (99)	185 (271)	100.3 (0.1)
16	22.9 (1.3)	84.2 (5.8)	2.72 (1.32)	30 (103)	90 (163)	100.7 (0.2)
17	21.3 (1.9)	76.5 (10.6)	2.49 (1.34)	20 (131)	117 (172)	101.0 (0.1)
18	21.1 (4.1)	69.5 (15.9)	1.78 (1.91)	10 (153)	240 (311)	101.0 (0.1)
19	20.7 (2.9)	70.5 (12.0)	3.55 (1.94)	29 (84)	207 (287)	101.3 (0.1)
20	19.6 (2.9)	78.1 (4.0)	3.14 (1.00)	14 (132)	91 (153)	101.2 (0.1)
21	21.1 (2.4)	77.5 (8.4)	1.85 (1.22)	17 (143)	146 (222)	101.3 (0.1)
22	21.2 (2.1)	74.6 (12.1)	2.29 (1.32)	20 (123)	128 (182)	101.3 (0.1)
23	20.4 (2.5)	73.5 (10.8)	4.74 (1.48)	30 (80)	162 (239)	101.4 (0.1)
24	18.4 (2.2)	65.3 (9.2)	5.97 (1.55)	21 (109)	169 (265)	101.2 (0.2)
25	18.4 (1.9)	85.1 (6.2)	7.08 (2.02)	19 (126)	28 (48)	100.1 (0.3)
26	23.5 (1.7)	81.6 (7.3)	1.79 (1.21)	140 (51)	104 (156)	100.0 (0.2)
27	23.8 (3.5)	77.3 (13.4)	0.53 (0.50)	153 (80)	172 (264)	100.2 (0.1)
28	23.4 (3.5)	77.2 (12.0)	0.99 (1.08)	234 (42)	173 (276)	100.3 (0.1)
29	23.7 (3.8)	76.3 (13.2)	0.78 (0.82)	37 (114)	183 (273)	100.5 (0.1)
30	22.8 (2.3)	83.4 (7.3)	0.73 (0.69)	171 (46)	90 (143)	100.2 (0.2)
Avg	23.3	75.7	2.20	51.9	165	100.7
n	25	25	25	25	25	25
SD	2.7	6.6	1.63	80.3	66	0.5
Min	18.4	64.5	0.53	9.5	28	100.0
Max	28.2	86.5	7.08	256	274	101.4

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Table F2. Daily means (SD) of weather at Site NC3B for October, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	21.5 (3.2)	79.6 (9.2)	1.47 (1.13)	261 (77)	119 (224)	99.6 (0.2)
2	16.4 (4.4)	64.9 (18.2)	1.29 (1.27)	303 (104)	232 (306)	100.2 (0.1)
3	17.0 (6.2)	67.1 (19.6)	0.73 (0.84)	171 (71)	224 (297)	100.7 (0.2)
4	19.0 (6.3)	68.3 (17.9)	0.64 (0.70)	132 (84)	204 (283)	101.2 (0.1)
5	18.8 (5.9)	72.6 (16.3)	0.56 (0.69)	63 (104)	197 (298)	101.4 (0.1)
6	20.3 (6.0)	69.6 (17.6)	1.04 (1.06)	37 (122)	213 (286)	101.3 (0.1)
7	19.0 (2.6)	72.3 (13.3)	2.08 (1.49)	56 (45)	197 (269)	101.5 (0.1)
8	19.5 (4.9)	72.0 (10.9)	0.97 (0.93)	118 (59)	177 (266)	101.0 (0.2)
9	22.3 (3.3)	80.0 (10.2)	0.65 (0.58)	113 (66)	83 (124)	100.6 (0.1)
10	22.2 (1.4)	84.5 (6.4)	2.90 (1.28)	48 (43)	63 (108)	100.9 (0.1)
11	21.1 (1.1)	85.6 (5.0)	3.65 (1.09)	44 (38)	38 (76)	101.3 (0.2)
12	21.1 (2.9)	77.5 (7.7)	3.37 (1.20)	48 (42)	128 (192)	101.8 (0.1)
13	20.5 (4.4)	75.6 (15.1)	1.47 (1.13)	30 (117)	202 (278)	101.8 (0.2)
14	20.3 (6.4)	69.9 (20.4)	0.69 (0.79)	28 (124)	207 (279)	101.3 (0.2)
15	21.7 (6.9)	66.5 (20.1)	0.65 (0.68)	244 (60)	201 (273)	101.0 (0.1)
16	22.6 (5.5)	66.0 (16.4)	1.00 (1.13)	228 (32)	195 (268)	100.7 (0.1)
17	20.3 (3.0)	81.7 (6.5)	1.99 (1.50)	37 (113)	80 (143)	100.5 (0.1)
18	12.8 (0.9)	84.0 (7.3)	3.98 (1.14)	7 (159)	35 (71)	100.7 (0.1)
19	12.1 (3.2)	65.2 (13.6)	3.39 (2.27)	3 (166)	200 (272)	101.3 (0.2)
20	10.7 (5.6)	65.5 (22.1)	0.88 (1.06)	5 (141)	203 (277)	101.5 (0.2)
21	14.4 (6.4)	65.5 (16.9)	1.16 (1.16)	243 (69)	189 (263)	101.0 (0.2)
22	11.3 (3.5)	60.6 (15.8)	2.04 (1.78)	14 (149)	201 (275)	101.6 (0.2)
23	11.4 (4.5)	70.7 (13.6)	2.52 (1.68)	37 (76)	186 (264)	102.2 (0.1)
24	15.6 (2.4)	80.4 (5.6)	2.58 (0.99)	71 (51)	27 (50)	101.4 (0.4)
25	21.6 (2.7)	82.1 (8.2)	2.23 (1.15)	191 (66)	76 (141)	100.2 (0.2)
26	16.2 (3.9)	70.8 (13.8)	0.96 (0.93)	339 (129)	183 (259)	100.5 (0.1)
27	11.7 (4.8)	70.6 (13.7)	1.97 (1.92)	298 (103)	119 (208)	100.4 (0.2)
28	8.1 (4.1)	58.6 (18.6)	2.84 (1.86)	284 (34)	172 (249)	100.7 (0.2)
29	8.1 (5.0)	58.6 (16.7)	1.51 (1.39)	246 (57)	171 (248)	100.9 (0.2)
30	7.4 (5.1)	63.8 (20.9)	1.34 (1.59)	22 (132)	181 (255)	102.1 (0.3)
31	9.5 (7.3)	61.4 (24.6)	0.48 (0.49)	43 (109)	179 (253)	102.3 (0.2)
Avg	16.6	71.3	1.71	23.4	157	101.1
n	31	31	31	31	31	31
SD	4.9	7.8	1.00	107	61	0.6
Min	7.4	58.6	0.48	2.5	27	99.6
Max	22.6	85.6	3.98	339	232	102.3

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Table F2. Daily means (SD) of weather at Site NC3B for November, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	11.9 (8.2)	60.3 (24.7)	0.57 (0.64)	167 (98)	177 (251)	101.7 (0.2)
2	15.1 (8.4)	63.2 (21.4)	0.88 (0.86)	48 (79)	110 (206)	101.6 (0.1)
3	16.3 (0.8)	88.9 (1.3)	3.72 (0.93)	26 (92)	11 (20)	101.5 (0.2)
4	17.3 (0.7)	88.3 (3.4)	4.30 (1.07)	26 (94)	26 (56)	100.8 (0.2)
5	17.6 (1.2)	79.4 (8.6)	3.75 (1.64)	341 (152)	56 (107)	100.4 (0.1)
6	18.0 (4.7)	64.9 (17.1)	1.99 (1.72)	282 (49)	165 (237)	100.3 (0.1)
7	18.3 (5.5)	68.1 (16.5)	0.78 (0.75)	208 (73)	161 (232)	100.3 (0.1)
8				216 (91)	94 (167)	99.7 (0.2)
9				335 (124)	89 (211)	100.0 (0.3)
10	9.4 (5.1)	67.0 (19.2)	0.92 (1.13)	3 (141)	165 (237)	101.0 (0.2)
11	8.4 (4.8)	71.0 (14.5)	1.29 (1.29)	28 (120)	154 (228)	101.6 (0.1)
12	12.0 (4.4)	64.7 (15.6)	1.91 (1.12)	48 (64)	106 (181)	101.5 (0.2)
13	18.2 (3.1)	87.5 (3.2)	1.39 (0.93)	54 (105)	23 (43)	100.6 (0.3)
14	18.0 (1.7)	90.9 (0.9)	0.91 (0.86)	124 (101)	6 (16)	100.3 (0.1)
15	20.9 (4.3)	79.6 (9.8)	3.77 (1.46)	217 (45)	84 (143)	99.5 (0.2)
16	10.4 (2.8)	58.9 (13.2)	2.47 (1.80)	274 (41)	158 (231)	100.4 (0.4)
17	7.5 (4.1)	65.1 (17.8)	0.98 (0.95)	333 (131)	144 (212)	100.9 (0.2)
18	5.3 (1.6)	50.1 (7.7)	3.84 (1.79)	331 (97)	108 (192)	101.1 (0.2)
19	3.2 (2.3)	50.5 (10.0)	1.77 (1.43)	294 (93)	155 (225)	101.3 (0.3)
20	7.8 (5.2)	55.7 (13.6)	1.42 (1.32)	252 (94)	147 (217)	100.5 (0.1)
21	5.0 (1.9)	49.4 (16.1)	4.16 (2.07)	340 (142)	113 (209)	101.2 (0.5)
22		45.3 (12.7)	1.42 (1.38)	302 (87)	152 (224)	102.4 (0.1)
23	5.7 (5.2)	52.4 (21.3)	0.55 (0.62)	160 (87)	150 (220)	102.1 (0.1)
24		61.9 (19.8)	1.13 (1.07)	162 (68)	108 (169)	101.3 (0.5)
25	10.3 (3.1)	56.1 (21.5)	2.77 (1.84)	280 (48)	146 (218)	100.4 (0.2)
26	6.1 (4.8)	57.6 (17.9)	0.96 (1.04)	237 (55)	146 (214)	100.8 (0.1)
27		63.1 (17.8)	0.60 (0.64)	155 (68)	139 (205)	100.7 (0.1)
28	11.8 (5.2)	64.2 (17.1)	0.67 (0.55)	211 (71)	118 (184)	100.3 (0.1)
29	9.4 (1.1)	80.2 (11.3)	1.93 (1.13)	46 (90)	10 (17)	100.1 (0.2)
30	13.3 (3.5)	89.6 (2.3)	2.06 (1.47)	128 (93)	13 (27)	99.0 (0.4)
Avg	11.9	66.9	1.89	313	108	100.8
n	25	28	28	30	30	30
SD	5.0	13.4	1.20	111	54	0.8
Min	3.2	45.3	0.55	3.1	6	99.0
Max	20.9	90.9	4.30	341	177	102.4

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Table F2. Daily means (SD) of weather at Site NC3B for December, 2008

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	10.4 (2.5)	61.3 (14.5)	3.15 (2.00)	218 (33)	144 (220)	99.9 (0.6)
2	5.6 (2.9)	66.9 (12.7)	1.01 (1.00)	246 (59)	93 (174)	101.2 (0.2)
3		66.9 (17.2)	0.66 (0.75)	151 (53)	140 (210)	101.7 (0.1)
4	8.3 (5.9)	65.9 (19.3)	1.13 (1.34)	190 (49)	129 (199)	101.3 (0.2)
5	8.7 (2.0)	74.6 (6.7)	1.93 (1.56)	9 (139)	20 (34)	101.2 (0.1)
6	7.1 (5.0)	72.0 (12.2)	0.87 (0.85)	52 (114)	113 (189)	100.7 (0.3)
7	5.5 (2.3)	62.9 (21.3)	2.12 (2.24)	297 (87)	138 (205)	100.7 (0.5)
8		57.2 (21.3)	0.55 (0.55)	111 (83)	131 (198)	101.8 (0.2)
9	13.7 (6.4)	73.0 (6.4)	1.98 (1.36)	136 (45)	60 (114)	101.5 (0.3)
10	20.6 (2.0)	85.5 (4.9)	2.64 (0.97)	179 (25)	44 (77)	100.7 (0.2)
11	20.7 (2.0)	88.0 (2.5)	2.67 (1.80)	174 (49)	19 (42)	99.7 (0.5)
12	12.0 (2.8)	62.7 (16.3)	3.63 (1.69)	293 (70)	125 (200)	99.9 (0.7)
13		59.3 (14.7)	1.57 (1.52)	6 (143)	134 (201)	101.8 (0.3)
14	10.5 (6.1)	72.3 (7.7)	1.17 (0.89)	93 (67)	94 (162)	102.1 (0.1)
15	17.9 (2.8)	76.6 (8.2)	1.19 (1.05)	150 (31)	51 (93)	101.8 (0.1)
16	13.4 (2.7)	89.3 (2.0)	1.52 (1.51)	47 (109)	29 (51)	101.5 (0.1)
17	15.9 (4.3)	86.8 (5.3)	0.82 (0.88)	176 (72)	57 (107)	101.2 (0.1)
18	16.8 (1.2)	90.4 (1.0)	1.01 (0.84)	76 (90)	14 (26)	101.3 (0.1)
19	19.0 (3.4)	78.8 (12.8)	2.57 (1.81)	207 (39)	64 (116)	100.6 (0.4)
20	18.6 (2.7)	78.8 (11.2)	1.31 (0.92)	233 (85)	84 (152)	
21	13.9 (3.4)	71.2 (20.6)	2.93 (1.15)	252 (68)	37 (77)	
22		41.5 (11.3)	3.26 (2.13)	309 (76)	136 (202)	
23		57.3 (14.0)	1.35 (0.83)	60 (72)	121 (192)	
24						
25	16.2 (3.4)	80.9 (7.0)	1.89 (1.42)	333 (121)	13 (25)	
26	9.7 (2.1)	81.2 (6.7)	2.10 (0.92)	35 (85)	43 (79)	
27	13.8 (3.4)	88.4 (5.2)	0.71 (0.61)	10 (121)	52 (106)	
28	21.6 (2.5)	75.5 (14.6)	2.32 (1.33)	208 (27)	123 (189)	101.1 (0.2)
29	13.4 (4.2)	73.5 (12.3)	1.40 (1.08)	302 (122)	56 (110)	100.8 (0.1)
30	11.5 (4.9)	53.8 (20.6)	1.43 (0.98)	237 (58)	137 (203)	100.6 (0.2)
31						
Avg	13.5	72.2	1.75	200	83	101.0
n	24	29	29	29	29	22
SD	4.7	11.9	0.84	98	45	0.7
Min	5.5	41.5	0.55	6.0	13	99.7
Max	21.6	90.4	3.63	333	144	102.1

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Table F2. Daily means (SD) of weather at Site NC3B for January, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1		43.1 (11.0)	1.73 (1.45)	32 (133)	142 (211)	101.6 (0.1)
2		75.9 (5.3)	0.89 (0.78)	292 (105)	26 (46)	100.8 (0.3)
3	8.5 (4.0)	76.6 (15.3)	0.70 (0.58)	306 (109)	90 (174)	100.8 (0.1)
4	12.3 (3.0)	85.3 (3.5)	0.58 (0.61)	178 (83)	25 (52)	100.9 (0.1)
5	16.9 (1.8)	84.6 (5.5)	1.60 (1.21)	234 (42)	58 (119)	100.6 (0.2)
6	18.3 (2.0)	82.0 (8.6)	1.58 (1.19)	195 (32)	28 (51)	99.9 (0.2)
7	17.7 (3.8)	63.4 (15.2)	5.61 (1.66)	222 (40)	33 (65)	98.9 (0.3)
8	9.3 (2.6)	54.7 (6.8)	2.41 (1.24)	250 (52)	50 (82)	99.6 (0.2)
9	5.4 (3.4)	50.4 (13.6)	1.64 (1.20)	341 (124)	143 (212)	101.1 (0.4)
10	11.7 (7.5)	65.2 (9.8)	2.60 (1.91)	179 (39)	120 (190)	101.0 (0.4)
11	15.0 (2.2)	75.9 (9.3)	2.51 (1.07)	296 (121)	42 (86)	100.2 (0.1)
12	6.1 (2.4)	63.1 (10.2)	2.27 (1.59)	26 (140)	143 (212)	101.2 (0.3)
13	4.9 (1.2)	81.6 (8.1)	1.74 (0.83)	356 (131)	5 (13)	100.5 (0.4)
14	3.3 (2.3)	66.9 (17.0)	1.22 (1.32)	243 (101)	154 (233)	101.0 (0.3)
15	5.5 (3.5)	54.3 (17.2)	2.87 (1.57)	298 (120)	140 (209)	101.3 (0.4)
16		35.9 (6.2)	3.18 (1.58)	358 (168)	153 (224)	102.5 (0.2)
17		45.8 (19.8)	1.00 (1.02)	97 (92)	154 (225)	102.2 (0.4)
18	4.6 (1.9)	77.7 (12.7)	1.72 (0.98)	206 (33)	8 (15)	100.4 (0.5)
19	6.8 (3.8)	77.6 (13.0)	1.16 (1.13)	214 (58)	94 (153)	99.4 (0.2)
20		85.3 (3.0)	3.07 (2.16)	347 (138)	19 (34)	99.4 (0.5)
21		67.1 (10.1)	1.21 (1.13)	279 (58)	120 (196)	100.8 (0.2)
22		54.9 (15.7)	1.55 (1.19)	209 (22)	159 (231)	101.1 (0.1)
23	9.4 (5.3)	62.5 (12.2)	2.24 (1.26)	212 (22)	143 (218)	100.8 (0.2)
24	12.2 (1.9)	67.1 (15.9)	2.12 (1.25)	287 (119)	35 (55)	100.7 (0.2)
25						
26	4.6 (1.7)	62.9 (8.7)	1.85 (0.82)	34 (100)	31 (52)	101.7 (0.1)
27	8.8 (2.4)	78.4 (6.3)	1.34 (0.95)	102 (94)	65 (120)	101.6 (0.2)
28	16.4 (5.2)	80.5 (10.3)	3.18 (2.58)	197 (52)	74 (132)	100.4 (0.4)
29	9.3 (2.8)	70.5 (11.2)	1.51 (1.15)	12 (144)	116 (189)	100.4 (0.1)
30	6.1 (3.9)	61.5 (21.1)	1.61 (1.32)	332 (118)	120 (197)	100.4 (0.1)
31	4.9 (3.4)	45.2 (12.5)	1.98 (1.61)	279 (69)	174 (248)	101.1 (0.2)
Avg	9.5	66.5	1.96	276	89	100.7
n	23	30	30	30	30	30
SD	4.6	13.6	0.97	101	54	0.8
Min	3.3	35.9	0.58	12.4	5	98.9
Max	18.3	85.3	5.61	358	174	102.5

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Table F2. Daily means (SD) of weather at Site NC3B for February, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	9.1 (5.0)	54.7 (13.3)	2.34 (1.48)	202 (21)	166 (240)	101.1 (0.2)
2	10.7 (4.6)	69.1 (12.3)	1.20 (1.02)	192 (34)	98 (151)	100.4 (0.4)
3	5.8 (2.3)	62.2 (19.9)	3.44 (2.28)	305 (102)	147 (237)	100.0 (0.2)
4	2.8 (1.3)	54.3 (19.9)	3.96 (2.23)	335 (141)	164 (248)	100.7 (0.5)
5		41.9 (9.2)	2.91 (1.95)	326 (110)	182 (257)	102.1 (0.2)
6		47.9 (19.5)	1.61 (1.49)	190 (63)	176 (250)	102.1 (0.2)
7	11.4 (7.1)	50.4 (14.3)	1.78 (1.15)	206 (31)	178 (252)	101.8 (0.2)
8	14.9 (6.0)	54.1 (14.4)	1.95 (1.42)	237 (57)	173 (244)	101.3 (0.2)
9	13.4 (4.7)	57.3 (20.1)	1.35 (1.33)	94 (60)	178 (257)	101.7 (0.2)
10	15.7 (4.6)	73.7 (9.8)	1.65 (1.10)	174 (33)	81 (132)	101.4 (0.2)
11	18.9 (3.7)	68.7 (12.9)	3.61 (2.22)	198 (27)	114 (179)	100.6 (0.5)
12	17.8 (2.8)	41.8 (15.5)	3.67 (1.83)	267 (29)	176 (247)	100.2 (0.2)
13	14.9 (4.4)	36.2 (8.9)	2.13 (1.86)	277 (69)	187 (263)	100.6 (0.1)
14	11.1 (2.3)	68.4 (10.4)	1.27 (0.89)	176 (74)	40 (70)	100.2 (0.2)
15	8.7 (2.2)	58.8 (13.7)	2.61 (1.90)	30 (113)	166 (246)	100.7 (0.2)
16	5.3 (1.8)	62.7 (10.9)	2.62 (1.68)	12 (149)	91 (167)	101.0 (0.2)
17		51.9 (14.5)	1.26 (1.10)	357 (121)	197 (270)	101.4 (0.2)
18	10.4 (4.4)	76.1 (11.2)	2.84 (1.81)	183 (39)	24 (55)	100.1 (0.6)
19	14.8 (1.9)	62.9 (24.4)	3.44 (1.89)	271 (55)		99.2 (0.2)
20						
21		52.3 (21.3)	1.35 (1.31)	127 (60)	210 (285)	101.4 (0.2)
22	9.1 (3.1)	50.9 (18.7)	3.82 (2.41)	268 (71)	120 (216)	100.8 (0.4)
23		43.8 (10.5)	2.28 (1.89)	314 (82)	212 (285)	101.7 (0.1)
24		45.4 (12.4)	1.60 (1.40)	17 (141)	214 (287)	101.9 (0.1)
25		54.0 (20.2)	0.62 (0.65)	100 (75)	136 (198)	101.9 (0.1)
26	10.5 (5.1)	65.7 (11.1)	0.87 (0.71)	161 (60)	53 (70)	101.6 (0.2)
27	16.2 (4.3)	63.0 (8.3)	2.59 (1.80)	177 (24)	131 (209)	100.9 (0.3)
28	13.1 (2.9)	86.8 (5.3)	1.98 (1.58)	92 (78)	12 (22)	100.4 (0.2)
Avg	11.7	57.6	2.25	220	139	101.0
n	20	27	27	27	26	27
SD	4.1	11.5	0.94	95.0	58	0.7
Min	2.8	36.2	0.62	12.1	12	99.2
Max	18.9	86.8	3.96	357	214	102.1

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Table F2. Daily means (SD) of weather at Site NC3B for March, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	5.0 (0.9)	90.4 (1.1)	4.28 (1.56)	39 (77)	6 (15)	99.7 (0.3)
2	1.8 (1.3)	75.2 (9.7)	4.17 (2.04)	337 (137)	56 (141)	100.4 (0.6)
3		52.9 (12.2)	3.10 (1.89)	3 (153)	231 (306)	101.7 (0.2)
4		55.2 (21.1)	0.85 (0.87)	206 (98)	218 (289)	102.0 (0.1)
5	10.1 (5.0)	52.1 (20.7)	1.40 (1.11)	183 (44)	231 (305)	102.0 (0.2)
6	15.0 (6.2)	59.6 (13.5)	2.88 (1.89)	204 (28)	218 (292)	101.5 (0.3)
7	18.8 (5.3)	61.3 (11.7)	2.23 (1.08)	215 (29)	215 (286)	101.2 (0.2)
8	20.5 (4.9)	58.6 (15.0)	3.13 (1.33)	221 (31)	220 (298)	100.7 (0.2)
9	21.7 (5.5)	49.6 (18.9)	2.64 (1.82)	269 (74)	234 (309)	100.6 (0.2)
10	16.7 (3.8)	59.7 (9.1)	2.85 (1.00)	104 (49)	212 (291)	101.2 (0.1)
11	21.3 (5.2)	65.4 (17.0)	1.92 (1.23)	200 (59)	185 (269)	100.9 (0.1)
12	14.9 (2.6)	38.8 (6.6)	3.94 (1.27)	47 (85)	172 (254)	101.6 (0.2)
13	7.2 (1.2)	71.6 (16.9)	3.91 (1.06)	35 (79)	20 (36)	101.6 (0.1)
14	7.6 (1.4)	90.6 (1.1)	2.32 (0.86)	44 (75)	24 (39)	101.3 (0.1)
15	10.6 (1.6)	90.9 (1.1)	1.15 (0.77)	18 (135)	20 (30)	101.0 (0.1)
16	11.6 (0.7)	90.5 (0.9)	1.85 (0.91)	31 (109)	25 (39)	101.1 (0.1)
17	11.3 (1.1)	83.6 (6.2)	3.52 (1.25)	14 (148)	58 (89)	101.2 (0.2)
18	12.6 (5.6)	65.6 (17.8)	0.85 (0.85)	21 (122)	251 (325)	101.3 (0.2)
19	15.4 (6.8)	61.6 (19.2)	2.16 (2.24)	253 (90)	237 (313)	100.8 (0.2)
20	11.2 (2.8)	63.1 (21.2)	3.31 (1.75)	25 (133)	243 (337)	101.2 (0.2)
21	8.2 (3.5)	59.7 (17.9)	2.37 (1.90)	38 (91)	260 (333)	102.0 (0.1)
22	10.0 (6.7)	57.2 (21.8)	1.01 (1.00)	54 (106)	261 (333)	101.8 (0.2)
23	12.4 (5.8)	59.1 (18.0)	1.67 (1.48)	357 (108)	248 (322)	101.4 (0.1)
24	9.7 (3.3)	52.6 (19.0)	2.73 (1.51)	70 (50)	232 (309)	101.7 (0.1)
25	10.5 (3.8)	58.7 (10.3)	1.70 (0.76)	88 (32)	82 (114)	101.5 (0.2)
26	16.7 (3.3)	84.7 (4.5)	2.47 (1.39)	169 (32)	63 (139)	100.6 (0.3)
27	19.3 (1.3)	85.9 (3.2)	1.20 (0.81)	174 (29)	49 (82)	100.2 (0.2)
28	21.3 (2.0)	84.5 (8.0)	1.84 (1.49)	190 (37)	95 (171)	99.8 (0.2)
29	20.5 (3.9)	62.0 (20.2)	4.51 (1.72)	223 (42)	230 (334)	99.1 (0.3)
30	14.2 (4.3)	51.1 (16.6)	2.47 (1.84)	309 (106)	275 (351)	100.3 (0.2)
31	15.1 (5.9)	57.8 (21.7)	1.27 (1.10)	115 (57)	226 (308)	100.8 (0.1)
Avg	13.5	66.1	2.44	50.4	164	101.0
n	29	31	31	31	31	31
SD	5.1	14.3	1.04	104	92	0.7
Min	1.8	38.8	0.85	2.9	6	99.1
Max	21.7	90.9	4.51	357	275	102.0

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Table F2. Daily means (SD) of weather at Site NC3B for April, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	17.3 (2.6)	79.4 (4.8)	0.96 (0.74)	122 (46)	68 (98)	100.4 (0.1)
2	17.7 (1.5)	88.5 (1.9)	1.48 (1.04)	111 (63)	26 (39)	99.9 (0.4)
3	21.5 (2.6)	61.8 (19.6)	4.26 (1.92)	235 (51)	250 (339)	98.8 (0.3)
4	17.4 (4.5)	46.3 (15.7)	2.17 (1.49)	273 (49)	284 (351)	100.0 (0.2)
5	19.6 (6.4)	56.0 (22.4)	2.00 (1.65)	191 (60)	266 (342)	100.0 (0.3)
6	20.4 (3.9)	58.3 (23.5)	4.62 (1.97)	236 (53)	168 (270)	98.7 (0.4)
7	9.4 (1.8)	44.8 (9.4)	3.31 (1.87)	279 (32)	164 (232)	99.4 (0.3)
8	10.1 (4.6)	48.3 (16.6)	2.63 (1.72)	241 (47)	277 (343)	100.1 (0.2)
9	16.2 (4.2)	47.4 (19.2)	2.49 (1.66)	241 (71)	285 (354)	100.2 (0.2)
10	20.3 (4.9)	61.6 (21.5)	3.33 (1.85)	190 (34)	238 (321)	100.4 (0.2)
11	18.2 (3.2)	67.8 (16.9)	3.33 (1.69)	295 (114)	168 (270)	100.0 (0.3)
12	12.7 (4.2)	56.9 (19.3)	1.81 (1.76)	16 (129)	298 (360)	101.1 (0.2)
13	13.4 (4.1)	74.1 (12.1)	1.44 (1.16)	126 (71)	62 (98)	100.9 (0.3)
14	18.5 (0.7)	85.8 (4.3)	1.40 (1.00)	152 (68)	35 (68)	99.7 (0.3)
15	16.1 (2.3)	76.0 (12.2)	3.30 (1.21)	354 (163)	140 (230)	100.0 (0.4)
16	12.9 (3.6)	50.0 (18.2)	4.47 (1.70)	25 (127)	292 (360)	101.2 (0.2)
17	13.2 (6.6)	48.0 (16.7)	1.33 (1.20)	4 (127)	300 (361)	101.6 (0.2)
18	17.6 (7.0)	49.7 (20.5)	1.70 (1.24)	223 (35)	296 (363)	101.0 (0.2)
19	18.4 (5.0)	63.2 (12.2)	1.94 (1.31)	206 (33)	174 (242)	100.5 (0.2)
20	21.1 (3.5)	73.5 (12.2)	2.40 (1.60)	183 (29)	166 (258)	99.8 (0.2)
21	19.7 (3.6)	62.4 (22.2)	1.72 (1.56)	228 (70)	252 (342)	99.7 (0.1)
22	15.2 (2.8)	50.4 (23.6)	2.98 (2.89)	251 (62)	279 (355)	100.1 (0.3)
23	17.8 (7.7)	50.9 (20.5)	1.63 (1.82)	234 (79)	304 (362)	100.8 (0.2)
24	21.7 (7.4)	68.4 (16.9)	1.74 (1.35)	154 (59)	252 (337)	101.4 (0.1)
25	24.9 (4.6)	68.0 (17.9)	2.18 (0.99)	200 (34)	280 (346)	101.6 (0.1)
26	24.4 (5.3)	64.3 (21.8)	1.64 (0.99)	213 (46)	293 (355)	101.7 (0.1)
27	23.1 (5.7)	61.7 (21.4)	1.25 (1.12)	194 (45)	297 (356)	101.9 (0.1)
28	21.8 (5.4)	64.1 (18.1)	1.46 (1.35)	200 (47)	289 (352)	101.7 (0.2)
29	22.2 (5.0)	65.0 (19.4)	1.46 (1.23)	204 (74)	260 (322)	101.5 (0.1)
30	19.8 (4.1)	78.1 (11.8)	1.77 (0.81)	112 (71)	185 (286)	101.5 (0.2)
Avg	18.1	62.4	2.27	211	222	100.5
n	30	30	30	30	30	30
SD	3.9	11.8	0.98	79.0	84	0.9
Min	9.4	44.8	0.96	4.4	26	98.7
Max	24.9	88.5	4.62	354	304	101.9

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Table F2. Daily means (SD) of weather at Site NC3B for May, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	23.4 (4.0)	71.6 (16.8)	2.64 (1.45)	200 (33)	233 (327)	100.9 (0.3)
2	24.4 (3.2)	67.2 (13.3)	2.73 (1.32)	207 (37)	214 (297)	100.4 (0.1)
3	25.2 (3.7)	66.6 (15.8)	3.05 (1.25)	198 (34)	235 (299)	100.3 (0.1)
4	24.7 (3.6)	69.7 (15.2)	2.90 (1.43)	203 (40)	203 (284)	100.4 (0.1)
5	21.8 (2.4)	83.7 (4.6)	1.60 (1.14)	168 (58)	86 (160)	100.5 (0.1)
6	24.9 (2.7)	73.8 (12.7)	3.18 (1.28)	186 (27)	209 (304)	100.5 (0.1)
7	23.4 (2.5)	80.6 (9.1)	2.14 (1.07)	190 (47)	174 (299)	100.2 (0.2)
8	24.9 (3.7)	75.3 (11.4)	1.72 (1.13)	203 (59)	218 (279)	100.2 (0.1)
9	27.5 (3.8)	63.8 (16.5)	3.04 (1.70)	225 (38)	301 (356)	100.1 (0.1)
10	23.6 (2.9)	61.3 (15.0)	1.32 (1.20)	338 (133)	267 (333)	100.5 (0.2)
11	16.8 (2.5)	77.7 (6.9)	2.38 (2.05)	30 (122)	77 (117)	100.7 (0.1)
12	17.3 (5.4)	66.9 (17.4)	1.33 (1.31)	17 (131)	309 (366)	101.1 (0.1)
13	19.5 (4.4)	63.4 (16.9)	1.34 (1.14)	76 (70)	240 (297)	101.5 (0.1)
14	21.0 (3.1)	83.6 (4.7)	1.32 (0.97)	117 (66)	105 (143)	101.3 (0.1)
15	23.2 (2.8)	81.1 (10.0)	1.12 (0.91)	113 (72)	163 (237)	101.2 (0.1)
16	24.0 (2.3)	81.2 (9.5)	1.64 (0.89)	187 (30)	173 (243)	
17	19.8 (4.9)	83.3 (8.0)	3.59 (2.09)	296 (119)	127 (239)	
18	13.2 (2.0)	73.6 (12.6)	4.01 (1.78)	33 (78)	141 (225)	
19	14.9 (3.3)	60.3 (12.1)	4.42 (1.96)	39 (53)	235 (277)	
20	18.4 (5.4)	74.9 (9.6)	3.35 (1.30)	48 (60)	257 (332)	
21	21.7 (4.0)	68.6 (14.7)	1.90 (1.29)	78 (60)	289 (342)	
22	23.2 (4.1)	72.2 (12.7)	1.30 (1.19)	99 (74)	252 (320)	
23	23.6 (4.0)	73.4 (12.2)	1.44 (1.29)	136 (68)	220 (306)	
24	24.5 (2.9)	74.7 (11.1)	1.57 (1.30)	152 (45)	196 (245)	
25	24.8 (3.2)	73.6 (11.9)	1.37 (1.22)	150 (32)	214 (277)	
26	24.0 (1.6)	80.8 (6.5)	1.19 (0.96)	139 (48)	132 (166)	
27	25.7 (3.9)	69.3 (17.7)	1.15 (0.91)	29 (130)	293 (362)	
28	25.1 (2.9)	78.2 (9.9)	1.12 (0.83)	186 (47)	214 (295)	
29	25.1 (3.7)	76.8 (11.7)	2.02 (1.21)	209 (40)	225 (331)	
30	24.0 (4.0)	68.7 (16.1)	1.55 (1.45)	338 (127)	283 (337)	
31	26.2 (5.1)	64.9 (19.7)	1.35 (1.31)	241 (74)	310 (362)	100.1 (0.1)
Avg	22.6	72.9	2.09	152	213	100.6
n	31	31	31	31	31	16
SD	3.4	6.7	0.93	85.6	63	0.4
Min	13.2	60.3	1.12	17.3	77	100.1
Max	27.5	83.7	4.42	338	310	101.5

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Table F2. Daily means (SD) of weather at Site NC3B for June, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	25.0 (4.1)	76.4 (14.1)	1.33 (1.22)	103 (89)	246 (357)	100.6 (0.2)
2	26.7 (4.0)	70.1 (16.3)	1.72 (1.12)	203 (39)	304 (353)	100.8 (0.1)
3	26.5 (3.7)	70.7 (17.6)	2.13 (1.07)	204 (36)	280 (350)	100.6 (0.2)
4	25.5 (3.4)	74.7 (15.5)	1.39 (1.07)	188 (36)	190 (295)	100.2 (0.2)
5	24.6 (2.9)	79.9 (12.0)	2.61 (1.45)	200 (68)	202 (300)	99.8 (0.1)
6	21.0 (1.1)	86.4 (3.7)	2.08 (0.99)	39 (77)	63 (109)	100.4 (0.2)
7	24.2 (2.7)	80.1 (8.9)	1.33 (0.90)	85 (70)	184 (256)	100.6 (0.1)
8	26.3 (3.8)	74.9 (13.3)	1.15 (1.02)	163 (72)	304 (374)	100.4 (0.1)
9	26.1 (3.9)	78.3 (12.9)	1.11 (1.17)	190 (74)	181 (291)	100.3 (0.1)
10	25.1 (4.1)	75.5 (13.5)	1.30 (0.91)	211 (104)	281 (346)	100.2 (0.1)
11	27.0 (3.5)	74.3 (12.3)	1.41 (1.00)	195 (46)	240 (318)	100.1 (0.1)
12	27.4 (4.4)	73.7 (12.3)	1.65 (1.27)	231 (51)	270 (335)	99.9 (0.1)
13	28.6 (4.3)	69.1 (15.4)	1.09 (0.91)	243 (74)	259 (315)	100.0 (0.1)
14	27.0 (3.7)	74.0 (12.3)	1.48 (1.18)	23 (126)	256 (325)	100.2 (0.1)
15	25.5 (3.8)	77.1 (13.7)	1.30 (1.08)	105 (64)	236 (324)	100.4 (0.1)
16	22.0 (0.6)	87.5 (1.9)	1.82 (1.15)	59 (64)	44 (74)	100.6 (0.1)
17	24.7 (2.6)	79.6 (9.0)	1.42 (0.84)	101 (77)	147 (204)	100.7 (0.1)
18	27.1 (3.9)	76.9 (11.9)	1.25 (0.88)	195 (59)	221 (311)	100.2 (0.2)
19	28.8 (3.6)	70.0 (15.5)	1.60 (1.48)	256 (98)	285 (329)	100.0 (0.1)
20	30.7 (4.1)	66.4 (15.4)	1.75 (1.17)	247 (35)	265 (313)	99.7 (0.2)
21	29.3 (2.6)	56.2 (12.1)	2.92 (2.17)	312 (99)	283 (358)	99.4 (0.1)
22	26.3 (3.8)	64.1 (15.0)	1.71 (1.69)	338 (135)	296 (358)	99.5 (0.1)
23	26.0 (3.6)	70.0 (15.4)	1.63 (1.31)	63 (108)	278 (348)	99.6 (0.1)
24	27.5 (4.9)	66.3 (17.5)	0.90 (0.83)	254 (90)	288 (359)	99.9 (0.1)
25	28.6 (4.6)	63.2 (19.7)	0.93 (0.81)	346 (119)	308 (359)	100.0 (0.1)
26	26.4 (3.6)	78.2 (10.3)	1.77 (1.41)	195 (43)	203 (288)	99.9 (0.1)
27	28.7 (4.5)	68.5 (14.6)	1.50 (1.07)	315 (119)	267 (334)	99.7 (0.1)
28	27.7 (4.6)	61.1 (19.0)	0.94 (0.82)	271 (108)	303 (356)	99.6 (0.2)
29	29.1 (4.1)	58.6 (18.3)	1.19 (1.03)	274 (97)	274 (337)	99.2 (0.1)
30	28.2 (5.3)	54.1 (20.3)	1.05 (0.93)	250 (104)	311 (365)	99.2 (0.1)
Avg	26.6	71.9	1.52	220	242	100.1
n	30	30	30	30	30	30
SD	2.1	8.0	0.46	87.3	66	0.4
Min	21.0	54.1	0.90	22.9	44	99.2
Max	30.7	87.5	2.92	346	311	100.8

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Table F2. Daily means (SD) of weather at Site NC3B for July, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	28.4 (5.5)	56.9 (19.5)	1.80 (1.60)	220 (66)	291 (353)	99.5 (0.1)
2	27.9 (4.3)	65.5 (18.0)	0.97 (0.97)	286 (100)	236 (335)	99.9 (0.1)
3	25.7 (3.7)	60.2 (15.5)	1.79 (1.28)	343 (146)	310 (365)	100.4 (0.1)
4	25.2 (5.2)	60.7 (18.5)	1.05 (1.09)	287 (111)	308 (361)	100.5 (0.1)
5	27.5 (3.6)	72.9 (10.7)	1.59 (1.13)	194 (33)	148 (201)	100.1 (0.2)
6	25.7 (1.4)	82.2 (4.0)	1.64 (0.92)	312 (107)	90 (136)	99.8 (0.1)
7	26.8 (3.3)	69.7 (17.2)	1.30 (1.10)	51 (109)	273 (341)	99.8 (0.1)
8	26.6 (4.3)	70.4 (16.9)	0.91 (0.87)	102 (101)	229 (310)	100.1 (0.1)
9	24.8 (1.8)	71.4 (10.6)	1.66 (0.97)	50 (76)	126 (195)	100.7 (0.3)
10	24.5 (4.0)	64.5 (14.9)	1.63 (1.44)	53 (90)	300 (352)	101.3 (0.1)
11	25.4 (4.4)	66.7 (13.2)	1.30 (0.93)	195 (78)	239 (311)	101.2 (0.2)
12	28.3 (4.5)	62.5 (10.9)	2.43 (1.05)	226 (34)	267 (334)	100.6 (0.2)
13	24.3 (0.9)	81.8 (6.2)	1.00 (0.70)	160 (96)	47 (60)	100.3 (0.1)
14	25.5 (3.5)	75.7 (14.9)	1.66 (1.53)	13 (132)	268 (341)	100.7 (0.2)
15	26.6 (4.6)	63.1 (22.4)	0.90 (0.83)	100 (101)	298 (356)	100.9 (0.1)
16	26.4 (3.9)	76.9 (14.2)	1.30 (1.23)	195 (41)	173 (279)	100.4 (0.2)
17	26.9 (4.3)	78.8 (12.5)	2.07 (1.71)	202 (56)	200 (266)	99.9 (0.2)
18	27.0 (3.0)	72.8 (14.2)	1.25 (0.98)	283 (109)	223 (291)	100.2 (0.2)
19	26.6 (3.2)	64.7 (9.2)	1.89 (1.20)	50 (102)	244 (325)	100.6 (0.1)
20	25.9 (2.4)	75.8 (12.5)	0.80 (0.68)	137 (51)	124 (184)	100.6 (0.1)
21	25.4 (4.2)	73.4 (16.3)	1.11 (0.85)	101 (99)	220 (322)	100.7 (0.1)
22	25.7 (4.0)	78.3 (12.1)	0.84 (0.84)	118 (73)	214 (321)	100.7 (0.1)
23	26.4 (3.1)	80.9 (11.6)	1.17 (1.07)	202 (79)	213 (319)	100.3 (0.1)
24	26.6 (2.8)	79.2 (9.3)	1.37 (1.09)	205 (80)	186 (274)	100.2 (0.1)
25	27.8 (3.7)	74.4 (11.3)	1.63 (1.25)	171 (28)	249 (318)	100.4 (0.1)
26	29.5 (4.0)	67.7 (16.7)	2.73 (0.98)	193 (26)	285 (343)	100.4 (0.1)
27	26.2 (3.5)	79.5 (9.5)	2.07 (1.45)	191 (47)	183 (255)	100.5 (0.1)
28	26.7 (3.9)	79.0 (12.8)	1.72 (1.18)	179 (42)	254 (342)	100.5 (0.1)
29	27.0 (2.4)	79.9 (8.9)	2.47 (1.36)	196 (25)	177 (228)	100.3 (0.1)
30	27.8 (3.9)	76.5 (13.3)	1.79 (0.95)	214 (36)	245 (330)	100.5 (0.1)
31	27.4 (4.3)	77.6 (13.3)	2.44 (1.48)	197 (34)	255 (337)	100.6 (0.1)
Avg	26.5	72.2	1.56	182	222	100.4
n	31	31	31	31	31	31
SD	1.2	7.1	0.51	81.1	64	0.4
Min	24.3	56.9	0.80	13.4	47	99.5
Max	29.5	82.2	2.73	343	310	101.3

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Table F2. Daily means (SD) of weather at Site NC3B for August, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	27.8 (3.1)	77.6 (11.4)	1.59 (1.12)	194 (35)	210 (313)	100.7 (0.1)
2	26.7 (1.9)	84.1 (7.5)	2.08 (1.19)	200 (41)	116 (192)	100.4 (0.1)
3	26.7 (2.5)	82.4 (9.0)	0.89 (0.75)	189 (53)	156 (262)	100.5 (0.1)
4	28.2 (4.2)	73.0 (14.8)	1.06 (0.94)	167 (54)	257 (322)	100.5 (0.1)
5	27.4 (3.5)	77.4 (12.1)	1.67 (1.18)	185 (52)	232 (323)	100.4 (0.1)
6	28.0 (2.5)	75.6 (11.2)	1.54 (1.28)	243 (82)	224 (286)	100.3 (0.1)
7	27.0 (3.7)	69.0 (17.2)	1.11 (0.90)	89 (89)	268 (341)	100.9 (0.2)
8	27.2 (4.6)	68.5 (15.0)	1.04 (0.86)	177 (78)	254 (322)	101.2 (0.1)
9	28.8 (4.8)	68.3 (15.0)	1.42 (1.05)	223 (42)	260 (330)	101.1 (0.2)
10	30.6 (4.9)	63.3 (14.6)	1.52 (0.98)	231 (52)	251 (327)	100.7 (0.2)
11	28.7 (4.7)	71.4 (15.0)	1.99 (1.52)	223 (76)	218 (311)	100.3 (0.1)
12	26.4 (2.4)	84.1 (7.7)	0.66 (0.69)	211 (68)	101 (185)	100.3 (0.1)
13	25.7 (1.4)	84.7 (5.6)	0.62 (0.56)	4 (121)	73 (108)	100.7 (0.1)
14	25.7 (2.0)	82.9 (8.3)	0.74 (0.68)	108 (88)	142 (219)	100.9 (0.1)
15	26.4 (3.2)	79.3 (11.8)	0.75 (0.68)	40 (123)	188 (299)	101.0 (0.1)
16	27.6 (3.3)	76.2 (13.5)	0.63 (0.63)	144 (101)	193 (256)	101.1 (0.1)
17	28.2 (3.9)	74.1 (14.6)	0.69 (0.54)	201 (78)	217 (302)	101.2 (0.1)
18	28.6 (3.5)	73.5 (13.5)	1.21 (0.97)	191 (45)	232 (302)	101.0 (0.1)
19	28.7 (3.8)	73.4 (15.1)	1.45 (1.05)	197 (43)	263 (342)	100.7 (0.1)
20	29.0 (3.6)	74.4 (14.1)	1.77 (1.22)	196 (36)	240 (334)	100.6 (0.1)
21	27.5 (1.7)	83.4 (5.9)	1.52 (0.73)	176 (27)	102 (146)	100.3 (0.2)
22	26.1 (3.2)	83.8 (9.4)	1.21 (0.98)	187 (76)	117 (210)	99.9 (0.1)
23	25.3 (3.1)	83.4 (7.6)	0.80 (0.67)	117 (97)	135 (210)	100.1 (0.1)
24	25.7 (3.7)	79.2 (11.3)	0.88 (0.90)	43 (117)	200 (282)	100.6 (0.1)
25	26.8 (4.2)	74.5 (14.0)	0.80 (0.81)	105 (93)	212 (305)	100.8 (0.1)
26	27.4 (4.5)	74.1 (15.4)	0.66 (0.65)	161 (82)	205 (300)	100.8 (0.1)
27	27.7 (4.4)	73.6 (15.7)	0.83 (0.94)	184 (87)	223 (302)	100.7 (0.1)
28	26.6 (2.9)	82.0 (10.2)	1.15 (0.92)	37 (125)	130 (209)	100.4 (0.2)
29	27.3 (2.6)	78.8 (11.4)	1.37 (0.92)	271 (90)	175 (286)	99.9 (0.1)
30	27.8 (3.3)	76.5 (14.4)	1.22 (0.84)	222 (63)	194 (289)	100.2 (0.1)
31						
Avg	27.4	76.7	1.16	181	193	100.6
n	30	30	30	30	30	30
SD	1.2	5.5	0.41	65.8	55	0.4
Min	25.3	63.3	0.62	4.1	73	99.9
Max	30.6	84.7	2.08	271	268	101.2

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Table F2. Daily means (SD) of weather at Site NC3B for September, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	22.3 (2.2)	76.1 (10.5)	3.09 (1.49)	28 (98)	171 (272)	101.0 (0.1)
2	21.8 (2.6)	73.2 (7.6)	3.36 (1.22)	26 (100)	169 (237)	101.0 (0.1)
3	23.1 (2.4)	74.6 (6.0)	3.06 (1.40)	10 (155)	153 (208)	100.6 (0.1)
4	23.3 (3.8)	69.4 (17.0)	1.31 (1.31)	11 (143)	216 (295)	100.6 (0.1)
5	24.1 (5.3)	69.2 (15.4)	1.07 (1.08)	42 (121)	219 (281)	100.9 (0.1)
6	24.1 (3.4)	69.4 (14.1)	2.19 (1.69)	46 (87)	192 (252)	101.0 (0.1)
7	23.5 (1.0)	84.9 (2.6)	3.48 (1.12)	32 (88)	58 (91)	100.5 (0.2)
8	24.2 (2.0)	80.1 (7.9)	3.45 (1.54)	360 (169)	164 (268)	100.3 (0.1)
9	23.0 (3.2)	72.8 (14.7)	1.89 (1.41)	9 (151)	220 (298)	100.7 (0.1)
10	20.8 (1.6)	82.2 (4.7)	2.48 (1.36)	7 (160)	45 (69)	101.0 (0.1)
11	21.9 (3.1)	71.3 (11.5)	1.49 (1.14)	335 (127)	210 (291)	100.8 (0.2)
12	23.5 (4.6)	75.4 (13.7)	0.98 (0.92)	231 (79)	165 (261)	100.4 (0.2)
13	23.4 (3.5)	72.3 (14.4)	1.70 (1.38)	12 (136)	210 (299)	100.3 (0.1)
14	23.6 (5.3)	67.4 (18.7)	1.16 (1.23)	330 (124)	245 (322)	100.5 (0.1)
15	24.8 (5.4)	67.5 (17.4)	0.78 (0.72)	163 (81)	188 (264)	100.5 (0.1)
16	24.9 (2.9)	75.4 (9.7)	0.99 (1.06)	33 (116)	112 (190)	100.5 (0.1)
17	23.9 (1.9)	81.4 (8.5)	1.18 (0.86)	23 (134)	98 (164)	100.8 (0.1)
18	23.7 (2.8)	78.8 (10.5)	0.86 (0.63)	19 (132)	112 (153)	100.8 (0.1)
19	24.4 (3.5)	75.1 (11.9)	1.40 (1.20)	58 (86)	125 (202)	101.0 (0.1)
20	23.2 (3.4)	74.5 (12.3)	1.99 (1.26)	61 (42)	176 (262)	101.2 (0.1)
21	23.8 (4.2)	72.6 (13.3)	1.57 (1.07)	53 (78)	213 (298)	101.1 (0.1)
22	25.1 (1.3)	88.2 (2.7)	1.51 (0.90)	67 (59)	66 (94)	101.0 (0.1)
23	25.9 (2.4)	83.3 (8.6)	0.90 (0.86)	121 (89)	145 (243)	101.0 (0.1)
24	26.7 (3.9)	76.6 (12.5)	0.67 (0.57)	209 (77)	184 (279)	100.8 (0.1)
25	25.2 (3.6)	81.2 (8.7)	2.15 (1.67)	331 (117)	137 (225)	100.7 (0.2)
26	21.6 (1.5)	87.3 (3.6)	2.40 (0.95)	50 (82)	42 (74)	100.6 (0.4)
27	24.1 (2.7)	80.5 (12.2)	1.41 (1.25)	242 (54)	136 (239)	99.6 (0.1)
28	23.9 (4.5)	69.1 (15.0)	2.18 (1.58)	218 (47)	222 (291)	99.5 (0.3)
29	19.4 (4.3)	51.6 (17.4)	1.70 (1.40)	297 (69)	237 (309)	99.9 (0.2)
30	16.2 (4.8)	69.5 (16.8)	1.18 (1.34)	328 (124)	201 (280)	100.4 (0.1)
Avg	23.3	75.0	1.79	17.1	161	100.6
n	30	30	30	30	30	30
SD	2.0	7.2	0.83	124	57	0.4
Min	16.2	51.6	0.67	7.2	42	99.5
Max	26.7	88.2	3.48	360	245	101.2

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Table F2. Daily means (SD) of weather at Site NC3B for October, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	18.0 (5.5)	67.4 (17.4)	0.90 (0.88)	26 (111)	210 (290)	100.6 (0.1)
2	19.5 (5.0)	78.7 (10.7)	0.81 (0.82)	139 (59)	104 (160)	100.3 (0.2)
3	23.5 (3.8)	72.2 (15.5)	1.10 (0.92)	209 (50)	197 (279)	100.1 (0.1)
4	19.5 (3.7)	65.2 (18.5)	0.96 (1.07)	281 (94)	150 (218)	100.5 (0.2)
5	17.6 (0.6)	84.8 (6.4)	1.18 (0.88)	49 (102)	33 (56)	100.7 (0.2)
6	20.0 (1.8)	88.0 (3.5)	1.68 (0.99)	18 (108)	45 (77)	100.2 (0.1)
7	22.8 (4.5)	75.3 (14.2)	2.38 (1.43)	268 (82)	131 (220)	100.1 (0.2)
8	17.8 (4.1)	60.6 (16.0)	1.19 (1.26)	71 (105)	214 (286)	101.0 (0.2)
9	23.6 (6.6)	75.8 (10.0)	1.91 (1.41)	178 (65)	155 (235)	100.5 (0.3)
10	25.3 (2.7)	81.4 (8.1)	2.37 (1.40)	260 (104)	114 (204)	100.3 (0.2)
11	18.5 (1.6)	79.4 (3.9)	2.37 (1.45)	37 (89)	68 (115)	101.1 (0.2)
12	16.8 (0.6)	83.4 (4.6)	2.02 (1.00)	37 (96)	28 (38)	101.2 (0.1)
13	18.9 (4.1)	77.7 (14.3)	1.98 (1.30)	344 (147)	185 (270)	100.9 (0.1)
14	14.0 (1.8)	84.0 (6.1)	3.08 (1.14)	39 (82)	29 (45)	100.8 (0.2)
15	13.5 (1.9)	88.2 (2.9)	2.08 (1.23)	325 (130)	45 (68)	99.8 (0.3)
16	13.5 (1.3)	85.1 (3.5)	3.13 (1.07)	8 (152)	50 (82)	99.8 (0.2)
17	12.6 (2.4)	73.6 (10.6)	3.10 (1.02)	353 (164)	149 (253)	100.2 (0.1)
18	9.5 (1.0)	76.5 (3.5)	3.14 (1.34)	344 (143)	44 (67)	100.7 (0.3)
19	10.4 (4.0)	66.4 (15.4)	2.17 (1.64)	352 (142)	197 (268)	101.3 (0.1)
20	11.9 (7.3)	66.4 (20.7)	0.61 (0.67)	225 (70)	196 (268)	101.4 (0.1)
21	14.7 (7.5)	65.2 (20.3)	0.54 (0.55)	165 (83)	186 (261)	101.3 (0.1)
22	18.2 (7.3)	71.9 (14.5)	1.02 (1.06)	171 (46)	176 (257)	100.9 (0.2)
23	22.9 (4.2)	70.8 (14.6)	1.94 (1.46)	164 (29)	157 (235)	100.4 (0.2)
24	25.0 (2.7)	73.7 (9.9)	2.92 (1.75)	190 (42)	124 (184)	99.9 (0.2)
25	17.4 (2.8)	68.4 (6.9)	3.02 (1.16)	15 (135)	122 (210)	100.6 (0.3)
26	14.6 (1.5)	83.9 (7.0)	3.27 (1.12)	23 (111)	22 (43)	100.9 (0.1)
27	17.2 (1.2)	88.2 (2.5)	1.30 (0.63)	5 (130)	32 (49)	100.5 (0.2)
28	23.2 (3.8)	76.5 (15.9)	2.14 (1.49)	234 (61)	131 (211)	100.1 (0.2)
29	17.7 (2.8)	75.4 (9.0)	2.27 (1.31)	37 (99)	137 (224)	101.0 (0.2)
30	16.9 (1.8)	85.8 (4.5)	1.85 (1.02)	37 (93)	65 (106)	101.1 (0.2)
31	21.7 (2.5)	87.7 (2.5)	1.40 (1.04)	170 (65)	58 (89)	100.4 (0.2)
Avg	18.0	76.7	1.93	11.9	115	100.6
n	31	31	31	31	31	31
SD	4.2	7.9	0.82	119	63	0.4
Min	9.5	60.6	0.54	4.6	22	99.8
Max	25.3	88.2	3.27	353	214	101.4

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Table F2. Daily means (SD) of weather at Site NC3B for November, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	18.6 (4.4)	88.0 (2.3)	2.96 (1.79)	48 (112)	28 (57)	100.3 (0.2)
2	13.5 (1.4)	83.4 (4.8)	2.91 (1.50)	7 (155)	36 (62)	100.8 (0.1)
3	14.2 (4.8)	73.0 (16.7)	0.72 (0.84)	324 (110)	168 (240)	101.0 (0.1)
4	15.0 (4.4)	70.1 (11.6)	1.33 (1.08)	91 (95)	162 (233)	101.3 (0.2)
5	14.2 (4.5)	62.1 (21.8)	1.45 (1.57)	296 (86)	166 (240)	101.1 (0.1)
6	9.3 (5.6)	61.1 (19.6)	1.17 (1.47)	24 (128)	171 (244)	101.5 (0.1)
7	10.7 (7.2)	64.6 (20.2)	0.80 (0.88)	155 (100)	163 (234)	101.5 (0.2)
8	14.9 (7.0)	67.5 (19.3)	0.69 (0.78)	196 (73)	158 (228)	101.5 (0.1)
9	16.8 (6.6)	74.3 (11.6)	0.61 (0.57)	71 (66)	83 (149)	101.7 (0.1)
10	19.5 (1.9)	82.2 (7.4)	1.69 (1.15)	43 (93)	32 (55)	101.1 (0.3)
11	16.0 (1.5)	91.6 (0.4)	5.17 (1.44)	35 (82)	3 (8)	100.0 (0.3)
12	12.2 (1.5)	89.4 (3.0)	6.68 (1.59)	356 (169)	16 (25)	99.1 (0.1)
13	12.7 (1.0)	87.2 (2.7)	5.78 (1.52)	352 (164)	16 (28)	99.3 (0.2)
14	14.4 (1.6)	85.4 (3.5)	2.81 (1.86)	343 (144)	36 (56)	100.0 (0.2)
15	15.1 (4.3)	81.7 (12.2)	1.16 (0.98)	347 (147)	125 (200)	100.4 (0.1)
16	14.9 (6.3)	74.9 (16.1)	0.61 (0.83)	28 (146)	151 (222)	100.6 (0.1)
17	14.0 (3.6)	78.5 (8.5)	1.82 (1.39)	43 (70)	101 (170)	100.9 (0.1)
18	17.4 (2.6)	86.4 (3.8)	2.71 (0.92)	49 (44)	35 (73)	101.0 (0.1)
19	21.4 (2.1)	84.6 (7.6)	1.14 (0.92)	114 (79)	82 (151)	100.7 (0.1)
20	17.1 (1.8)	79.5 (10.4)	2.58 (1.42)	8 (156)	129 (211)	100.7 (0.1)
21	12.4 (2.2)	74.6 (11.8)	2.19 (1.80)	22 (117)	108 (167)	100.9 (0.1)
22	11.2 (3.5)	77.9 (11.3)	2.19 (1.66)	32 (108)	88 (157)	101.0 (0.1)
23	14.4 (0.9)	90.7 (0.6)	2.70 (1.06)	16 (142)	12 (20)	100.8 (0.1)
24	13.7 (0.6)	86.0 (3.9)	1.38 (0.98)	316 (109)	19 (34)	100.9 (0.1)
25	12.6 (0.9)	84.1 (4.3)	0.80 (0.74)	235 (69)	31 (51)	100.6 (0.1)
26	11.1 (2.6)	84.2 (6.3)	1.00 (1.47)	274 (75)	95 (167)	99.9 (0.3)
27	9.0 (2.9)	62.4 (14.5)	2.65 (1.60)	285 (64)	140 (206)	100.0 (0.2)
28	7.6 (4.3)	57.8 (14.8)	1.35 (1.28)	286 (87)	140 (208)	100.6 (0.1)
29	13.6 (5.9)	58.4 (15.0)	1.56 (1.11)	206 (26)	136 (209)	100.6 (0.1)
30	14.9 (3.7)	64.2 (12.9)	2.75 (1.34)	224 (55)	98 (168)	100.0 (0.3)
Avg	14.1	76.9	2.11	4.2	91	100.7
n	30	30	30	30	30	30
SD	3.0	10.3	1.48	128	57	0.6
Min	7.6	57.8	0.61	6.5	3	99.1
Max	21.4	91.6	6.68	356	171	101.7

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Table F2. Daily means (SD) of weather at Site NC3B for December, 2009

Day	Temp., ºC	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	8.1 (3.7)	67.2 (16.6)	0.89 (0.96)	22 (128)	120 (184)	100.9 (0.2)
2	15.6 (4.8)	83.5 (8.7)	2.40 (1.31)	111 (59)	13 (25)	100.1 (0.6)
3	16.7 (2.8)	73.6 (9.7)	2.39 (1.48)	249 (59)	104 (173)	99.8 (0.4)
4	11.1 (2.8)	73.6 (7.7)	1.62 (0.92)	26 (132)	74 (136)	100.7 (0.1)
5	9.8 (2.4)	87.9 (3.5)	2.68 (1.54)	341 (144)	11 (19)	100.2 (0.3)
6	5.0 (2.3)	76.8 (9.9)	1.34 (1.49)	31 (125)	106 (166)	101.5 (0.2)
7	7.7 (3.7)	76.9 (6.6)	0.82 (0.80)	8 (141)	44 (75)	101.4 (0.1)
8	8.8 (1.8)	79.4 (7.0)	2.30 (1.42)	48 (95)	40 (72)	101.1 (0.4)
9	20.5 (3.1)	83.7 (6.6)	4.09 (1.57)	205 (41)	58 (119)	99.1 (0.3)
10	12.6 (3.8)	39.3 (3.9)	2.75 (1.49)	275 (30)	59 (109)	100.0 (0.5)
11	2.9 (1.3)	43.8 (14.4)	2.45 (1.90)	328 (115)	50 (79)	101.8 (0.4)
12	5.1 (2.5)	57.2 (16.3)	1.66 (1.20)	44 (101)	50 (80)	102.3 (0.2)
13	14.2 (3.9)	85.8 (6.8)	2.28 (1.27)	191 (88)	15 (27)	100.9 (0.4)
14	11.3 (1.6)	87.8 (3.5)	1.06 (0.69)	219 (71)	36 (57)	100.9 (0.1)
15	16.1 (2.1)	86.3 (6.0)	1.41 (1.39)	263 (66)	23 (40)	100.6 (0.2)
16	6.9 (3.3)	58.8 (12.2)	2.62 (1.99)	352 (160)	87 (134)	101.6 (0.2)
17		63.8 (17.7)	1.35 (1.46)	24 (111)	127 (194)	101.6 (0.1)
18	4.7 (2.1)	74.1 (9.7)	3.98 (2.43)	59 (33)	24 (44)	100.4 (0.9)
19	4.1 (2.0)	84.9 (5.1)	3.60 (1.92)	308 (106)	13 (21)	99.0 (0.5)
20	4.3 (3.2)	73.7 (13.0)	1.56 (1.65)	318 (114)	120 (187)	100.4 (0.4)
21		70.4 (15.0)	0.90 (1.05)	261 (80)	127 (192)	101.0 (0.1)
22		70.7 (15.4)	0.69 (0.87)	41 (98)	126 (190)	101.3 (0.1)
23		69.9 (16.1)	0.70 (0.86)	30 (132)	126 (193)	101.4 (0.1)
24	6.0 (3.7)	68.0 (17.5)	2.64 (1.87)	51 (39)	128 (194)	101.4 (0.1)
25	13.2 (4.8)	84.7 (4.9)	2.86 (1.48)	103 (60)	11 (24)	100.3 (0.5)
26	9.6 (1.9)	86.4 (2.5)	1.67 (1.11)	261 (40)	22 (34)	100.3 (0.2)
27	8.8 (3.2)	71.7 (17.0)	1.12 (0.78)	225 (67)	111 (185)	100.5 (0.1)
28	7.3 (2.3)	56.1 (13.3)	2.69 (1.43)	265 (49)	125 (193)	100.2 (0.2)
29	3.8 (2.4)	50.3 (10.3)	2.71 (1.85)	326 (116)	136 (203)	101.3 (0.4)
30		52.7 (10.8)	1.45 (0.82)	64 (50)	97 (164)	101.9 (0.3)
31	8.5 (3.6)	88.4 (2.0)	0.90 (0.69)	352 (111)	23 (39)	100.9 (0.3)
Avg	9.3	71.9	1.99	349	71	100.8
n	26	31	31	31	31	31
SD	4.5	13.4	0.94	123	45	0.8
Min	2.9	39.3	0.69	8.0	11	99.0
Max	20.5	88.4	4.09	352	136	102.3

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Table F2. Daily means (SD) of weather at Site NC3B for January, 2010

Day	Temp.,	RH, %	Wind	Wind	Solar,	Atm P, kPa
1	9.0 (2.0)	78.8 (9.4)	2.12 (0.84)	320 (77)	24 (36)	100.3 (0.1)
2		47.1 (9.8)	4.56 (2.01)	322 (80)	136 (203)	100.6 (0.2)
3		41.8 (7.9)	3.75 (1.78)	301 (51)	137 (203)	100.6 (0.2)
4		49.8 (7.6)	2.07 (1.49)	294 (46)	136 (201)	100.4 (0.1)
5		53.7 (9.7)	2.05 (1.77)	287 (39)	130 (195)	100.4 (0.1)
6		54.0 (8.6)	2.08 (1.47)	281 (30)	135 (201)	100.6 (0.1)
7		50.6 (12.3)	1.67 (0.94)	253 (78)	136 (202)	100.7 (0.2)
8	4.6 (1.9)	52.2 (15.0)	3.65 (1.66)	295 (69)	92 (162)	100.4 (0.3)
9		50.7 (8.5)	2.10 (1.34)	326 (122)	103 (163)	101.1 (0.1)
10		52.1 (13.8)	2.42 (2.19)	339 (150)	141 (209)	101.5 (0.2)
11		49.5 (19.4)	1.08 (1.03)	216 (51)	139 (205)	101.4 (0.3)
12	3.9 (1.9)	51.4 (5.4)	2.17 (1.69)	309 (98)	112 (175)	101.1 (0.2)
13		54.3 (13.0)	0.89 (0.79)	330 (118)	142 (212)	101.6 (0.2)
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Avg	5.8	52.8	2.35	298	120	100.8
n	3	13	13	13	13	13
SD	2.3	8.2	1.05	34	32	0.4
Min	3.9	41.8	0.89	216	24	100.3
Max	9.0	78.8	4.56	339	142	101.6

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Table F3. Building environment.

Table F3. Daily means (SD) of environmental parameters at Site NC3B for December, 2007.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1												
2												
3												
4	20.5 (1.2)	53.5 (4.2)	-16.3 (10.1)	5.67 (3.18)	20.0 (1.1)	55.1 (3.8)	-20.2 (11.9)	5.72 (2.85)	22.3 (1.8)	60.3 (3.9)	-13.9 (14.8)	3.34 (3.31)
5	21.0 (1.5)	53.7 (3.7)	-19.3 (9.8)	6.05 (2.79)	20.3 (1.2)	56.2 (3.8)	-24.1 (11.1)	6.25 (2.31)	22.8 (2.0)	59.8 (3.6)	-13.4 (13.6)	3.42 (3.35)
6	19.1 (2.0)	56.8 (4.0)	-18.1 (10.4)	5.38 (3.20)	19.9 (1.1)	59.7 (3.9)	-20.6 (12.1)	5.71 (2.87)	21.6 (2.3)	62.9 (4.4)	-13.7 (14.0)	2.81 (3.27)
7	18.6 (2.8)	61.3 (2.6)	-19.1 (12.0)	5.56 (2.96)	19.3 (1.4)	60.9 (4.2)	-17.9 (12.4)	5.29 (3.13)	21.3 (3.1)	66.2 (3.5)	-11.5 (13.5)	2.81 (3.35)
8	21.7 (3.4)	61.7 (2.8)	-24.5 (9.9)	7.67 (3.29)	20.5 (2.3)	57.2 (2.9)	-20.5 (9.6)	8.47 (4.45)	23.8 (1.9)	62.8 (3.2)	-16.8 (13.2)	5.52 (4.67)
9	23.6 (1.7)	65.2 (2.2)	-27.3 (5.0)	9.31 (3.10)	21.5 (2.0)	60.3 (2.5)	-24.0 (3.6)	10.6 (3.56)	24.5 (1.5)	65.7 (2.6)	-19.9 (11.5)	7.25 (5.00)
10	24.4 (2.0)	64.6 (4.9)	-27.7 (2.3)	10.1 (3.43)	22.5 (2.3)	57.9 (5.9)	-23.3 (1.6)	11.6 (3.49)	24.8 (2.2)	64.4 (4.3)	-22.2 (9.5)	9.24 (4.70)
11	24.6 (2.2)	63.8 (4.7)	-24.8 (4.4)	10.7 (3.25)	23.1 (2.2)	57.2 (6.3)	-23.4 (2.3)	11.9 (3.19)	24.6 (2.3)	64.7 (4.9)	-23.5 (8.6)	10.1 (4.71)
12												
13												
14												
15	21.4 (0.8)	65.8 (2.7)	-20.4 (9.3)	6.24 (2.60)	19.3 (0.9)	61.2 (2.4)	-10.3 (4.2)	7.40 (1.71)	23.8 (1.6)	67.2 (4.1)	-16.2 (13.7)	3.33 (3.33)
16	21.2 (1.6)	61.7 (7.4)	-12.0 (8.4)	6.64 (2.94)	19.3 (1.3)	58.4 (5.8)	-8.5 (4.7)	7.25 (1.72)	23.1 (1.9)	64.0 (5.1)	-12.3 (12.7)	3.44 (3.37)
17	20.2 (3.0)	59.8 (4.6)	-4.9 (5.2)	4.36 (4.12)	15.9 (2.6)	54.6 (3.8)	-5.6 (4.4)	6.27 (1.77)	21.5 (2.3)	62.8 (3.8)	-9.3 (12.9)	2.45 (3.23)
18	22.2 (1.9)	63.1 (6.2)	-6.8 (7.6)	3.72 (3.87)	14.7 (4.0)	56.9 (6.6)	-5.2 (4.0)	6.32 (1.80)	21.5 (2.8)	62.8 (4.5)	-11.4 (13.9)	2.65 (3.25)
19	22.5 (1.4)	63.7 (3.3)	-9.5 (9.2)	4.21 (3.81)	16.6 (2.7)	57.9 (3.1)	-6.1 (4.5)	6.51 (1.82)	22.5 (1.9)	64.6 (2.7)	-10.9 (13.4)	2.75 (3.32)
20	22.9 (1.7)	62.1 (4.2)	-12.3 (9.8)	4.86 (3.64)	17.8 (3.6)	57.5 (5.1)	-7.8 (5.3)	6.45 (2.89)	22.6 (2.3)	62.4 (4.5)	-12.8 (13.4)	3.27 (3.39)
21	22.7 (1.1)	65.8 (5.3)	-13.5 (9.2)	4.53 (3.62)	19.6 (1.4)	62.1 (5.6)	-8.8 (5.3)	6.14 (3.71)	23.2 (1.5)	65.9 (5.2)	-15.1 (13.0)	2.95 (3.21)
22	22.2 (3.0)	66.4 (4.0)	-19.1 (13.3)	5.17 (3.32)	20.0 (2.3)	61.9 (2.8)	-10.2 (6.9)	7.71 (3.83)	23.9 (1.4)	64.5 (2.4)	-18.9 (13.2)	4.28 (3.27)
23	24.3 (1.2)	71.0 (3.6)	-22.4 (11.2)	7.62 (3.54)	22.0 (1.6)	66.1 (3.0)	-14.7 (7.6)	10.5 (3.32)	24.7 (1.5)	68.9 (4.0)	-19.7 (11.2)	6.36 (4.15)
24	23.0 (1.2)	62.9 (5.6)	-16.9 (14.2)	4.25 (3.28)	20.5 (1.2)	59.4 (6.9)	-5.9 (4.4)	6.06 (4.04)	23.5 (1.7)	60.7 (7.1)	-14.7 (13.6)	3.86 (3.39)
25	22.7 (1.3)	60.6 (5.3)	-15.7 (13.4)	3.91 (3.32)	20.5 (1.1)	57.0 (7.0)	-5.5 (4.3)	5.37 (4.23)	23.3 (1.7)	59.4 (5.3)	-15.7 (13.6)	3.76 (3.38)
26	22.0 (1.0)	68.7 (4.7)	-12.6 (14.0)	2.89 (3.15)	20.2 (1.0)	64.7 (3.7)	-3.0 (4.3)	3.31 (4.04)	23.3 (1.7)	69.4 (5.6)	-10.3 (12.4)	2.87 (3.30)
27	22.7 (1.3)	67.7 (3.0)	-16.1 (14.8)	3.87 (3.23)	20.4 (1.2)	63.7 (2.7)	-5.5 (4.7)	5.28 (4.18)	24.0 (1.8)	70.1 (2.9)	-11.8 (12.0)	3.66 (3.42)
28	24.2 (1.2)	66.2 (3.1)	-23.1 (10.7)	6.13 (2.72)	21.6 (1.2)	61.0 (3.7)	-12.3 (7.0)	9.43 (3.93)	24.9 (1.2)	67.4 (3.3)	-17.8 (9.4)	6.09 (2.96)
29	25.5 (0.8)	71.3 (2.7)	-28.8 (3.1)	10.3 (2.40)	23.8 (1.1)	63.5 (2.9)	-24.0 (4.8)	13.8 (1.70)	25.3 (0.9)	70.4 (3.1)	-14.3 (10.6)	8.04 (1.95)
30	24.6 (0.4)	75.0 (2.4)	-27.3 (1.8)	7.64 (1.11)	22.3 (0.6)	67.5 (1.3)	-17.6 (5.6)	11.1 (1.69)	24.5 (0.8)	72.8 (2.4)	-17.2 (10.2)	5.85 (2.90)
31	23.7 (1.1)	64.7 (5.3)	-21.3 (12.6)	5.39 (2.88)	21.2 (1.2)	58.3 (6.4)	-8.1 (5.3)	7.61 (3.88)	23.4 (1.5)	63.5 (6.0)	-12.90 (11.6)	4.35 (3.52)
Avg	22.5	63.9	-18.4	6.09	20.1	59.8	-13.3	7.68	23.4	64.9	-15.0	4.58
n	25	25	25	25	25	25	25	25	25	25	25	25
SD	1.7	4.9	6.42	2.14	2.1	3.3	7.27	2.53	1.2	3.4	3.64	2.12
Min	18.6	53.5	-28.8	2.89	14.7	54.6	-24.1	3.31	21.3	59.4	-23.5	2.45
Max	25.5	75.0	-4.93	10.7	23.8	67.5	-3.03	13.80	25.3	72.8	-9.27	10.1

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for January, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	22.9 (1.2)	59.2 (5.9)	-14.0 (12.8)	4.13 (3.48)	21.0 (1.2)	54.9 (7.6)	-5.17 (5.17)	5.41 (4.51)	22.3 (1.4)	59.9 (6.1)	-9.76 (10.9)	3.64 (3.62)
2	19.6 (1.9)	59.3 (3.4)	-8.19 (11.9)	2.48 (3.44)	19.2 (1.4)	55.5 (3.9)	-1.23 (3.00)	1.64 (2.92)	19.8 (1.8)	62.2 (3.4)	-4.89 (9.50)	1.95 (3.06)
3	17.2 (2.3)	63.0 (3.6)	-8.54 (11.5)	2.53 (3.55)	19.1 (1.9)	61.6 (4.5)	-1.60 (3.18)	1.74 (3.08)	18.3 (2.4)	66.2 (3.7)	-5.59 (10.1)	1.92 (3.04)
4	18.1 (3.6)	65.3 (4.4)	-8.44 (11.7)	2.66 (3.52)	20.4 (1.3)	64.0 (6.3)	-2.80 (3.95)	2.75 (3.78)	16.4 (4.1)	65.2 (8.2)	-10.6 (11.3)	4.02 (3.64)
5	19.9 (3.7)	62.1 (5.4)	-10.5 (12.0)	3.33 (3.56)	20.7 (1.1)	59.3 (8.0)	-2.49 (2.73)	4.41 (4.38)	13.9 (5.7)	61.4 (9.1)	-13.6 (7.80)	5.63 (1.18)
6	23.5 (1.6)	62.9 (3.4)	-17.3 (12.6)	5.55 (3.92)	21.3 (1.5)	59.8 (5.2)	-4.87 (4.03)	7.92 (4.95)	19.8 (3.4)	62.6 (4.0)	-15.3 (8.12)	6.13 (1.39)
7	24.2 (1.8)	66.0 (3.2)	-19.4 (11.7)	6.69 (3.98)	21.8 (1.7)	61.7 (5.2)	-6.73 (5.94)	9.71 (5.33)	20.8 (2.5)	65.8 (4.4)	-17.0 (9.84)	7.88 (4.15)
8	24.5 (1.6)	66.7 (2.9)	-21.5 (10.8)	7.54 (4.00)	22.4 (1.9)	61.9 (4.9)	-8.95 (7.46)	10.70 (5.05)	21.7 (2.6)	66.5 (3.4)	-19.0 (10.3)	8.63 (4.53)
9	24.6 (1.4)	69.1 (2.4)	-26.5 (8.04)	8.28 (3.25)	22.6 (1.5)	62.6 (4.1)	-10.8 (6.63)	11.80 (3.14)	23.9 (1.5)	66.9 (2.7)	-19.4 (10.7)	6.89 (3.67)
10	23.8 (1.2)	67.6 (3.3)	-28.7 (8.40)	7.29 (2.56)	22.0 (1.2)	60.9 (2.5)	-8.77 (5.71)	10.80 (3.14)	23.8 (1.2)	66.8 (3.0)	-16.1 (9.47)	6.15 (3.24)
11	22.1 (2.4)	67.3 (6.3)	-11.1 (15.8)	6.53 (3.83)	22.9 (1.0)	61.1 (4.9)	-14.2 (3.94)		24.6 (0.8)	69.3 (4.4)	-19.2 (4.14)	
12	13.6 (2.4)	64.9 (4.3)	-0.28 (1.16)	4.85 (4.62)	21.0 (0.9)	57.4 (3.3)	-5.13 (2.71)		23.4 (1.2)	63.6 (3.9)	-13.4 (10.2)	
13	9.2 (1.4)	67.8 (1.2)	-0.47 (1.35)	4.57 (4.68)	20.2 (1.1)	59.0 (2.3)	-3.20 (2.60)		22.8 (1.4)	65.9 (3.5)	-9.04 (10.5)	
14	8.3 (3.4)	72.5 (4.7)	0.44 (0.43)	1.46 (3.44)	20.3 (1.3)	58.1 (5.3)	-2.64 (2.66)		22.7 (1.5)	63.3 (4.1)	-7.60 (9.90)	
15	8.0 (1.8)	66.0 (1.2)	0.30 (0.46)	0.00 (0.00)	20.5 (1.3)	57.9 (6.0)	-1.23 (2.12)		21.8 (1.7)	63.2 (4.4)	-6.01 (9.27)	
16	7.1 (1.9)	66.2 (1.0)	0.03 (0.81)	0.00 (0.00)	20.1 (1.3)	58.1 (3.4)	-7.25 (10.00)		21.0 (2.1)	63.3 (3.1)	-6.74 (9.61)	
17		65.9 (0.3)	-0.83 (1.65)	0.00 (0.00)		62.0 (4.1)	-13.8 (12.10)			66.1 (4.4)	-7.71 (9.54)	
18		66.2 (0.4)	0.43 (0.23)	0.00 (0.01)		60.3 (3.1)	-2.56 (8.40)			62.0 (1.8)	-1.55 (6.33)	
19		65.9 (0.3)	-0.07 (0.86)	0.00 (0.00)		62.5 (0.7)	0.45 (0.65)			60.6 (0.5)	0.28 (1.05)	
20		66.8 (0.3)	0.24 (0.83)	0.00 (0.00)		58.3 (4.9)	0.48 (0.58)			59.4 (0.5)	0.84 (0.92)	
21			-0.53 (1.23)			59.6 (2.8)	-0.05 (0.95)			58.4 (0.7)	-0.60 (1.22)	
22			0.20 (0.40)			59.6 (3.0)	0.47 (0.34)			60.1 (1.4)	0.28 (0.45)	
23			0.02 (0.80)			58.9 (2.2)	0.40 (0.56)			61.0 (0.6)	0.16 (0.76)	
24			0.29 (0.47)			60.4 (1.1)	0.56 (0.47)			60.3 (0.5)	0.57 (0.61)	
25			-0.41 (1.37)			56.4 (2.9)	0.27 (0.82)			58.7 (0.6)	0.01 (1.36)	
26			0.23 (0.23)			61.2 (0.5)	0.44 (0.17)			59.4 (0.5)	0.20 (0.19)	
27			0.13 (0.62)			57.2 (6.4)	0.39 (0.42)			60.0 (0.8)	0.34 (0.72)	
28			0.17 (0.48)			56.9 (5.6)	0.39 (0.37)			60.0 (0.9)	0.19 (0.51)	
29			0.15 (1.35)			52.3 (6.9)	0.89 (1.35)			60.6 (1.2)	0.38 (1.34)	
30			-0.02 (0.96)			59.5 (6.0)	0.75 (0.86)			61.2 (0.9)	0.54 (0.87)	
31			-2.09 (2.27)			72.6 (6.0)	-0.88 (1.80)			59.5 (0.3)	-2.31 (2.53)	
Avg	17.9	65.5	-5.68	3.39	21.0	59.7	-3.19	6.69	21.1	62.6	-6.50	5.28
n	16	20	31	20	16	31	31	10	16	31	31	10
SD	6.4	3.0	8.63	2.83	1.1	3.4	4.29	3.77	2.8	2.9	6.94	2.21
Min	7.1	59.2	-28.7	0.00	19.1	52.3	-14.20	1.64	13.9	58.4	-19.4	1.92
Max	24.6	72.5	0.44	8.28	22.9	72.6	0.89	11.8	24.6	69.3	0.84	8.63

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for February, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1			-0.12 (1.04)			76.7 (3.1)	0.67 (1.09)			61.1 (1.3)	-0.10 (1.25)	
2			0.22 (0.33)			70.7 (0.6)	-0.30 (8.30)			61.1 (1.0)	0.19 (0.34)	
3			0.24 (0.25)			67.8 (3.4)	0.47 (0.28)			61.3 (1.1)	0.28 (0.34)	
4			0.35 (0.27)			68.6 (1.6)	0.60 (0.31)			62.5 (1.2)	0.37 (0.32)	
5			0.30 (0.45)			64.3 (4.0)	0.81 (0.49)			63.5 (0.9)	0.45 (0.52)	
6			0.44 (0.71)			60.0 (5.1)	1.18 (0.70)			65.1 (1.2)	0.77 (1.22)	
7			0.04 (0.50)			53.5 (6.3)	0.74 (0.64)			64.6 (0.8)	0.76 (0.90)	
8			0.08 (0.39)			58.1 (7.0)	0.40 (0.38)			63.6 (1.2)	0.39 (0.60)	
9			0.23 (0.43)			55.3 (10.0)	0.69 (0.54)			65.5 (1.9)	0.55 (1.07)	
10			-0.19 (0.84)			44.9 (8.9)	0.81 (0.85)			65.7 (1.1)	0.86 (1.25)	
11			-0.47 (1.12)			49.5 (7.0)	0.17 (0.77)			64.6 (1.0)	-0.35 (1.24)	
12			0.33 (0.59)			61.1 (3.9)	0.88 (0.68)			66.5 (1.9)	0.00 (0.73)	
13			0.31 (0.59)			62.2 (2.3)	0.83 (0.52)			67.8 (0.6)	0.56 (0.70)	
14			-0.01 (0.75)			56.0 (4.8)	0.33 (0.54)			66.2 (0.6)	0.44 (0.91)	
15			0.22 (0.25)			58.2 (7.5)	0.56 (0.35)			66.4 (1.0)	0.34 (0.34)	
16			-1.38 (1.99)			55.5 (7.3)	-0.66 (1.37)			66.6 (0.8)	-1.71 (2.12)	
17			0.15 (0.76)			60.3 (3.5)	0.54 (0.77)			67.0 (1.6)	-0.12 (0.83)	
18			0.57 (0.89)			57.9 (7.8)	0.97 (0.72)			64.7 (8.1)	0.33 (0.77)	
19			0.74 (0.87)			48.0 (12.6)	0.58 (0.72)			56.1 (14.6)	0.39 (0.69)	
20			1.22 (1.16)			47.5 (15.7)	1.46 (1.40)			53.9 (18.0)	1.45 (1.69)	
21			-3.05 (2.78)			50.3 (7.0)	-1.92 (1.87)			58.2 (8.8)	-3.23 (2.67)	
22			-0.34 (1.26)			70.3 (1.1)	0.27 (0.91)			82.3 (1.4)	-0.07 (1.34)	
23			0.28 (1.05)			68.7 (2.5)	0.66 (0.81)			81.8 (2.3)	0.45 (1.16)	
24			-1.54 (2.22)			56.5 (7.4)	-0.79 (1.71)			66.0 (8.3)	-1.55 (2.25)	
25			0.36 (0.69)			56.5 (9.4)	0.69 (0.55)			65.7 (10.5)	0.59 (0.80)	
26			0.19 (0.88)			65.8 (3.2)	0.89 (0.68)			78.7 (3.5)	0.24 (0.86)	
27			-2.02 (3.39)			49.7 (8.4)	-0.05 (1.70)			57.5 (11.4)	-0.86 (2.83)	
28			-8.57 (4.34)			46.9 (9.8)	-3.63 (1.56)			52.6 (11.1)	-8.11 (3.48)	
29			-8.66 (8.30)			49.4 (16.9)	-4.05 (0.67)			56.6 (18.9)	-8.68 (1.99)	
Avg			-0.69			58.3	0.13			64.6	-0.53	
n	0	0	29	0	0	29	29	0	0	29	29	0
SD			2.32			8.2	1.26			6.9	2.32	
Min			-8.66			44.9	-4.05			52.6	-8.68	
Max			1.22			76.7	1.46			82.3	1.45	

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for March, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	13.1 (4.8)	55.2 (15.7)	-5.33 (10.20)	1.28 (2.44)	13.1 (4.8)	49.7 (15.3)	-3.98 (0.63)	4.90 (0.07)	13.4 (4.8)	59.4 (17.2)	-6.50 (0.91)	4.83 (0.09)
2												
3												
4												
5												
6	22.5 (2.4)	61.5 (8.5)	-10.2 (13.5)	1.95 (2.60)	19.8 (2.6)	55.1 (8.4)	-3.57 (5.76)	2.38 (3.57)	15.3 (3.2)	67.2 (10.9)	-0.58 (2.09)	0.34 (1.55)
7	23.4 (0.7)		-5.61 (10.7)		20.4 (1.4)	63.6 (1.8)	-2.23 (4.74)		13.8 (2.4)	81.0 (4.1)	-1.66 (3.50)	
8	22.1 (2.9)	60.6 (9.8)	-4.57 (5.78)	1.84 (2.62)	20.6 (2.7)	55.7 (10.6)	-3.00 (6.42)	2.46 (3.46)	15.8 (3.0)	70.6 (15.8)	-1.77 (4.73)	1.21 (2.54)
9	19.2 (2.9)	59.4 (7.3)	-2.21 (4.52)	1.17 (2.41)	16.7 (2.1)	54.1 (10.9)	-1.10 (2.78)	0.82 (1.70)	9.9 (2.3)	59.2 (12.9)	-1.60 (4.95)	1.04 (2.15)
10	21.6 (2.5)	58.4 (11.1)	-3.39 (5.75)	1.78 (3.03)	19.0 (3.4)	54.6 (13.8)	-2.63 (5.15)	1.65 (2.90)	14.4 (6.7)	64.3 (13.4)	-2.61 (5.72)	1.04 (2.13)
11	23.2 (1.5)	57.6 (7.4)	-4.89 (6.84)	2.50 (3.52)	22.1 (0.9)	51.9 (8.8)	-5.77 (7.16)	3.13 (3.75)	22.3 (2.1)	67.4 (8.3)	-4.76 (9.04)	1.43 (2.49)
12	23.6 (1.2)	52.7 (10.6)	-5.28 (6.80)	2.86 (3.69)	22.5 (1.1)	45.3 (11.2)	-6.87 (7.44)	3.88 (4.03)	23.1 (1.7)	59.6 (12.1)	-5.56 (11.0)	1.52 (2.65)
13	24.0 (2.3)	51.1 (12.2)	-7.93 (8.09)	4.56 (4.71)	22.7 (2.1)	45.3 (13.0)	-11.8 (12.0)	5.75 (5.46)	23.3 (2.7)	57.4 (15.6)	-10.7 (13.7)	2.66 (3.26)
14	24.4 (1.1)	52.3 (6.6)	-6.12 (6.51)	4.11 (4.09)	22.8 (1.3)	47.2 (6.9)	-10.6 (10.8)	5.58 (4.89)	24.4 (1.0)	59.8 (7.8)	-5.74 (10.7)	1.61 (2.76)
15	24.6 (1.3)	57.1 (6.1)	-8.50 (7.78)	4.67 (4.19)	23.1 (1.4)	54.9 (7.4)	-10.7 (9.51)	5.84 (4.73)	25.0 (0.9)	60.6 (7.2)	-11.5 (13.9)	2.88 (3.21)
16	23.6 (0.8)	58.4 (4.5)	-4.79 (6.54)	2.55 (3.58)	22.3 (0.8)	55.6 (6.3)	-5.11 (6.62)	3.37 (3.90)	24.3 (0.9)	62.9 (5.0)	-5.07 (10.6)	1.50 (2.56)
17	21.9 (1.6)	55.4 (5.0)	-4.03 (4.47)	1.44 (2.76)	21.7 (1.0)	50.7 (6.8)	-3.49 (4.80)	2.20 (3.51)	22.6 (1.7)	61.0 (5.6)	-5.33 (7.36)	1.10 (2.26)
18	22.7 (1.4)	60.6 (4.3)	-5.00 (6.64)	2.82 (3.69)	22.3 (0.9)	57.8 (4.6)	-5.62 (6.34)	3.71 (4.00)	23.3 (1.9)	65.2 (4.2)	-5.74 (10.2)	1.57 (2.64)
19	24.9 (1.9)	60.0 (3.9)	-9.30 (6.22)	7.06 (4.58)	24.1 (1.7)	59.0 (5.2)	-16.5 (9.77)	8.99 (4.92)	25.5 (1.2)	63.0 (4.6)	-14.2 (12.2)	5.55 (5.13)
20	24.1 (0.8)	51.1 (8.0)	-6.49 (6.79)	3.68 (3.86)	22.9 (0.9)	47.8 (10.7)	-8.30 (6.74)	5.19 (3.95)	24.8 (0.8)	55.9 (8.0)	-7.11 (12.1)	2.24 (3.03)
21	23.7 (1.3)	47.8 (10.6)	-6.48 (6.95)	3.60 (3.89)	22.7 (1.3)	44.7 (11.5)	-7.13 (6.95)	4.35 (4.09)	24.5 (1.1)	52.8 (11.6)	-9.51 (12.0)	2.60 (3.00)
22	24.8 (1.5)	47.8 (9.7)	-11.6 (11.5)	5.66 (5.01)	23.6 (1.7)	45.0 (10.6)	-12.9 (10.2)	7.15 (5.10)	25.2 (1.4)	50.9 (11.5)	-14.6 (13.2)	4.91 (4.77)
23	22.7 (1.6)	50.5 (5.8)	-5.24 (5.63)	2.22 (3.39)	22.4 (0.9)	46.7 (6.1)	-5.27 (5.97)	3.24 (3.87)	24.3 (1.2)	55.4 (5.9)	-8.34 (10.9)	1.77 (2.78)
24	21.8 (1.7)	56.7 (3.8)	-3.11 (4.69)	1.51 (2.86)	22.2 (0.9)	51.4 (5.0)	-2.98 (5.20)	2.23 (3.51)	23.7 (1.3)	60.0 (3.9)	-4.85 (9.49)	1.30 (2.40)
25	21.3 (2.4)	56.2 (7.6)	-3.37 (5.47)	1.81 (3.16)	22.2 (1.0)	49.7 (8.4)	-4.25 (5.97)	2.76 (3.76)	23.5 (1.8)	58.8 (7.5)	-5.64 (10.3)	1.45 (2.54)
26	23.0 (2.4)	50.3 (9.6)	-5.53 (6.47)	3.62 (4.04)	22.9 (1.3)	45.7 (10.0)	-9.93 (10.0)	5.52 (4.87)	24.9 (1.1)	51.6 (10.0)	-12.4 (13.6)	3.17 (3.36)
27	24.7 (1.8)	48.2 (8.3)	-13.5 (11.9)	6.27 (5.17)	23.8 (1.8)	45.9 (7.7)	-14.7 (11.1)	7.83 (5.25)	24.5 (1.8)	49.3 (9.0)	-17.9 (12.1)	7.53 (5.44)
28	25.8 (1.9)	49.0 (7.4)	-23.0 (10.9)	8.80 (5.06)	24.8 (2.2)	48.2 (9.3)	-17.9 (9.25)	11.5 (6.83)	25.4 (2.5)	51.1 (9.3)	-21.5 (11.6)	8.97 (4.92)
29	23.6 (0.8)	56.7 (3.3)	-13.2 (11.4)	2.92 (3.27)	22.3 (0.8)	55.4 (2.3)	-13.2 (11.8)	4.52 (3.71)	23.0 (1.7)	61.9 (3.2)	-15.6 (13.8)	3.53 (4.09)
30	22.3 (0.6)	63.1 (4.7)	-6.64 (8.10)	1.07 (2.23)	21.5 (0.7)	61.6 (3.5)	-12.9 (14.8)	2.61 (3.17)	23.3 (1.0)	66.5 (3.9)	-6.63 (7.56)	1.08 (2.17)
31	24.5 (1.0)	65.4 (1.4)	-17.2 (12.1)	4.80 (3.33)	22.9 (1.2)	64.2 (1.4)	-22.7 (12.0)	6.61 (3.99)	25.3 (0.9)	67.0 (2.1)	-15.6 (13.2)	4.06 (3.45)
Avg	22.8	55.5	-7.50	3.33	21.7	52.1	-8.34	4.55	21.8	60.7	-8.26	2.73
n	27	26	27	26	27	27	27	26	27	27	27	26
SD	2.4	4.9	4.64	1.93	2.4	5.7	5.43	2.41	4.5	6.8	5.39	2.08
Min	13.1	47.8	-23.0	1.07	13.1	44.7	-22.7	0.82	9.9	49.3	-21.5	0.34
Max	25.8	65.4	-2.21	8.80	24.8	64.2	-1.10	11.5	25.5	81.0	-0.58	8.97

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for April, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	25.2 (0.8)	64.6 (2.6)	-25.1 (7.7)	9.31 (4.14)	24.4 (1.3)	65.0 (2.8)	-22.9 (7.88)	10.3 (3.18)	25.5 (0.8)	65.7 (3.2)	-25.7 (10.8)	8.66 (4.83)
2	24.6 (1.3)	53.6 (8.8)	-20.2 (8.9)	7.22 (2.94)	24.2 (0.7)	53.3 (10.7)	-12.4 (9.36)	8.36 (4.25)	24.7 (1.1)	54.1 (9.6)	-24.5 (12.6)	7.09 (4.56)
3	22.7 (1.1)	59.4 (5.6)	-11.5 (9.6)	4.19 (3.60)	22.7 (1.2)	58.6 (5.3)	-4.86 (3.97)	4.54 (4.27)	21.9 (2.6)	62.3 (6.4)	-17.3 (13.7)	5.27 (4.79)
4	24.4 (1.4)	63.3 (2.7)	-21.3 (10.9)	7.17 (3.47)	23.2 (1.7)	64.0 (2.3)	-15.7 (11.1)	9.38 (4.39)	22.9 (1.9)	66.2 (3.0)	-11.7 (13.6)	9.39 (6.55)
5	24.9 (0.7)	69.4 (2.8)	-29.9 (4.1)	7.33 (1.29)	23.7 (0.8)	70.5 (1.8)	-11.2 (8.98)	10.0 (1.76)	22.2 (0.8)	71.3 (1.9)	-6.75 (6.49)	11.2 (4.50)
6	23.6 (1.0)	66.2 (2.4)	-20.7 (12.1)	5.34 (2.99)	22.6 (1.0)	66.5 (2.5)	-8.43 (3.64)	8.15 (2.57)	22.8 (1.5)	68.0 (3.9)	-4.78 (5.02)	6.59 (5.46)
7	22.6 (0.9)	61.6 (2.4)	-11.2 (9.5)	3.53 (3.59)	21.3 (0.9)	60.7 (1.6)	-6.19 (4.24)	5.78 (4.00)	23.0 (1.4)	61.6 (2.3)	-10.5 (12.4)	3.32 (3.55)
8	23.0 (1.0)	57.3 (2.3)	-14.4 (9.6)	4.94 (3.56)	21.5 (1.2)	57.1 (1.7)	-6.96 (4.10)	6.50 (3.72)	24.0 (1.0)	61.1 (1.7)	-21.1 (15.0)	4.30 (3.05)
9	23.9 (1.3)	58.9 (1.7)	-17.0 (8.4)	6.25 (3.02)	21.9 (1.2)	59.1 (1.7)	-11.9 (8.99)	8.24 (3.95)	24.3 (1.1)	62.9 (2.1)	-22.6 (14.4)	4.83 (2.96)
10	24.5 (1.6)	59.5 (3.4)	-21.1 (8.8)	7.74 (3.36)	23.3 (2.2)	60.8 (4.0)	-17.0 (12.6)	9.83 (4.23)	24.4 (1.2)	63.1 (5.0)	-20.6 (14.1)	6.53 (5.37)
11	26.1 (2.2)	56.7 (8.5)	-23.0 (6.6)	11.4 (5.98)	24.8 (3.1)	58.7 (10.7)	-11.6 (13.7)	16.2 (10.5)	25.9 (2.3)	60.1 (9.7)	-12.2 (10.5)	9.09 (6.11)
12	26.8 (2.0)	58.0 (6.3)	-18.0 (7.9)	12.4 (5.99)	24.6 (3.8)	59.7 (6.8)	-3.25 (6.28)	9.23 (5.54)	25.7 (2.5)	58.7 (5.9)	-6.90 (7.09)	10.3 (7.31)
13	24.2 (1.1)	48.2 (7.7)	-17.7 (8.2)	7.70 (3.33)	22.2 (1.4)	45.8 (8.5)	-4.34 (3.12)	9.29 (3.86)	23.7 (1.5)	47.4 (9.2)	-2.16 (2.20)	5.63 (4.34)
14	22.6 (1.4)	53.3 (4.2)	-10.3 (8.7)	4.42 (3.79)	20.9 (1.6)	51.4 (4.1)	-4.16 (4.01)	5.18 (4.15)	21.9 (2.7)	54.9 (4.3)	-9.29 (13.6)	3.19 (3.68)
15	22.7 (1.3)	50.1 (5.9)	-11.0 (8.2)	4.73 (3.81)	21.8 (1.2)	48.8 (7.2)	-5.27 (4.05)	5.91 (4.07)	23.2 (1.6)	54.2 (6.8)	-16.8 (15.6)	3.39 (3.21)
16	22.9 (1.8)	49.0 (7.9)	-10.7 (8.1)	5.04 (3.90)	22.0 (1.7)	46.6 (9.6)	-7.55 (7.09)	6.18 (4.61)	23.4 (2.2)	51.7 (9.2)	-19.2 (15.6)	3.95 (3.19)
17	24.0 (2.6)	45.7 (9.8)	-16.6 (12.0)	7.14 (5.08)	23.3 (2.7)	43.3 (11.9)	-15.7 (14.8)	9.25 (6.86)	24.4 (2.3)	47.6 (13.2)	-20.7 (14.5)	6.31 (5.12)
18	25.3 (3.0)	43.2 (10.0)	-19.2 (10.2)	11.1 (7.49)	25.1 (3.5)	41.8 (10.8)	-20.6 (15.0)	14.0 (9.26)	26.3 (2.6)	43.8 (11.6)	-20.4 (12.5)	9.75 (6.82)
19	25.2 (2.5)	49.3 (7.6)	-21.3 (8.8)	11.3 (5.73)	25.0 (2.7)	48.8 (9.0)	-22.0 (12.8)	14.3 (7.78)	26.2 (2.3)	49.6 (8.0)	-19.7 (11.1)	10.0 (4.86)
20	24.9 (1.6)	55.5 (8.4)	-20.0 (7.8)	9.73 (2.62)	24.5 (1.7)	55.9 (10.9)	-18.8 (12.2)	11.6 (4.17)	25.7 (1.5)	55.6 (9.4)	-17.5 (9.90)	8.81 (3.57)
21	23.3 (1.3)	59.8 (2.6)	-15.7 (7.8)	6.85 (2.96)	22.6 (1.0)	62.3 (3.3)	-9.61 (6.25)	8.12 (3.59)	24.3 (1.3)	61.9 (3.3)	-9.40 (6.21)	5.98 (3.68)
22	24.6 (1.3)	59.7 (2.5)	-25.5 (8.1)	8.31 (2.41)	23.7 (1.4)	61.5 (3.7)	-16.3 (10.6)	10.4 (2.96)	24.8 (1.1)	60.1 (3.3)	-15.7 (10.6)	8.54 (3.95)
23	25.1 (0.8)	61.1 (2.0)	-28.6 (2.8)	8.85 (2.04)	24.0 (1.1)	63.0 (2.5)	-17.5 (9.62)	10.8 (2.40)	25.2 (1.1)	61.1 (2.1)	-21.7 (10.9)	8.77 (3.46)
24	25.0 (1.7)	57.0 (6.0)	-28.6 (4.2)	9.71 (3.51)	24.3 (2.3)	58.0 (7.3)	-24.0 (13.5)	11.9 (5.59)	25.8 (1.9)	57.3 (6.0)	-24.9 (10.7)	8.73 (4.32)
25	25.4 (2.0)	53.9 (7.0)	-28.2 (4.2)	10.7 (4.59)	24.6 (2.8)	53.5 (7.3)	-33.9 (4.08)	12.8 (6.57)	26.2 (2.0)	54.3 (7.1)	-24.4 (9.74)	9.44 (4.60)
26	26.2 (2.2)	53.5 (5.9)	-28.6 (2.0)	13.1 (6.38)	25.8 (2.8)	54.3 (6.1)	-31.0 (5.67)	15.9 (8.15)	26.8 (2.3)	54.2 (6.2)	-26.4 (8.08)	11.4 (5.48)
27	25.5 (1.3)	61.9 (5.7)	-29.4 (2.5)	10.2 (3.25)	24.8 (1.8)	63.2 (6.0)	-32.7 (5.32)	12.5 (4.41)	25.5 (1.7)	62.6 (5.5)	-28.1 (6.05)	10.8 (3.48)
28	25.0 (0.9)	64.5 (2.5)	-24.4 (7.9)	9.57 (2.05)	24.3 (1.1)	66.7 (2.2)	-33.6 (4.61)	10.8 (1.84)	23.8 (1.2)	66.3 (2.9)	-29.1 (5.10)	11.9 (3.01)
29	23.8 (1.2)	53.3 (5.6)	-26.0 (7.7)	6.88 (2.06)	22.8 (1.1)	52.0 (7.5)	-23.1 (8.40)	7.74 (2.51)	23.5 (2.1)	55.1 (6.8)	-16.1 (11.4)	5.90 (4.14)
30	23.0 (1.6)	51.8 (5.1)	-23.3 (12.5)	5.98 (3.38)	22.4 (1.6)	51.5 (5.8)	-21.9 (13.4)	6.75 (3.56)	24.6 (1.4)	53.1 (5.4)	-15.0 (11.1)	4.88 (3.52)
Avg	24.4	56.6	-20.6	7.94	23.4	56.8	-15.8	9.67	24.4	58.2	-17.4	7.46
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.1	6.2	6.04	2.56	1.3	7.2	9.11	3.01	1.4	6.5	7.11	2.59
Min	22.6	43.2	-29.9	3.53	20.9	41.8	-33.9	4.54	21.9	43.8	-29.10	3.19
Max	26.8	69.4	-10.3	13.1	25.8	70.5	-3.25	16.20	26.8	71.3	-2.16	11.9

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for May, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	24.0 (2.2)	51.5 (6.8)	-24.2 (10.8)	8.17 (4.69)	23.7 (2.4)	50.8 (6.7)	-25.1 (11.8)	9.90 (5.66)	25.4 (1.8)	51.6 (6.4)	-21.3 (12.0)	7.63 (4.72)
2	25.3 (2.0)	54.1 (6.1)	-28.3 (3.7)	11.7 (5.69)	24.9 (2.4)	54.5 (6.4)	-30.7 (6.5)	13.9 (6.92)	26.1 (1.8)	54.4 (5.3)	-24.1 (9.6)	9.59 (4.53)
3	25.3 (1.9)	55.8 (6.6)	-27.8 (2.1)	11.8 (5.16)	25.2 (2.1)	55.9 (6.8)	-29.6 (5.1)	13.9 (6.99)	25.8 (1.9)	55.5 (5.9)	-25.2 (9.0)	9.98 (4.57)
4	25.9 (1.9)	57.5 (8.1)	-27.5 (2.5)	13.4 (5.66)	25.9 (2.3)	57.8 (7.9)	-35.0 (4.5)	16.2 (7.12)	26.3 (2.2)	56.5 (6.5)	-27.5 (6.4)	11.2 (4.41)
5	24.7 (1.1)	65.1 (3.3)	-27.2 (2.4)	9.30 (2.56)	24.1 (1.4)	65.6 (3.2)	-30.6 (6.8)	10.5 (3.00)	24.0 (1.9)	62.2 (2.4)	-28.4 (8.3)	10.4 (3.68)
6	24.8 (1.6)	58.0 (6.1)	-28.7 (1.9)	9.99 (3.31)	24.3 (2.1)	57.8 (6.6)	-29.1 (7.4)	11.4 (4.58)	25.6 (1.3)	54.1 (6.7)	-24.7 (10.0)	9.50 (4.46)
7	25.3 (2.1)	53.9 (7.7)	-27.9 (3.3)	12.4 (5.56)	25.0 (2.6)	53.0 (7.6)	-29.4 (7.7)	14.4 (7.55)	26.0 (2.1)	51.9 (7.2)	-25.4 (8.8)	11.0 (4.21)
8	25.7 (1.3)	61.7 (2.7)	-28.3 (1.9)	12.0 (3.28)	25.0 (1.5)	61.9 (2.9)	-32.6 (2.6)	16.8 (6.80)	26.3 (1.3)	57.9 (2.5)	-27.9 (4.2)	11.3 (3.28)
9	27.0 (1.8)	59.7 (6.5)	-25.3 (8.5)	16.3 (5.43)	26.5 (2.1)	59.8 (7.1)	-32.3 (2.0)	20.8 (6.50)	27.1 (2.1)	56.2 (5.3)	-30.8 (2.8)	14.5 (2.83)
10	26.0 (2.4)	56.0 (7.8)	-17.1 (11.0)	14.3 (6.07)	25.3 (3.1)	56.8 (7.7)	-30.9 (8.9)	17.0 (7.64)	26.5 (2.3)	54.0 (7.1)	-27.0 (6.7)	11.6 (4.33)
11	24.1 (2.1)	59.4 (5.6)	-10.3 (7.8)	10.3 (3.80)	23.5 (2.1)	61.3 (5.6)	-17.1 (12.4)	13.1 (5.35)	25.7 (1.5)	56.2 (4.9)	-22.1 (8.7)	8.20 (3.22)
12	23.6 (1.2)	53.3 (3.4)	-7.0 (3.9)	8.91 (2.68)	22.9 (0.9)	53.7 (3.6)	-10.0 (4.6)	10.9 (2.51)	25.2 (1.0)	50.7 (3.1)	-16.6 (6.7)	7.30 (2.40)
13	22.9 (1.8)	49.3 (6.5)	-7.3 (5.8)	8.18 (4.48)	22.4 (1.8)	49.0 (8.3)	-10.6 (7.8)	10.4 (4.48)	24.8 (1.3)	50.0 (6.6)	-17.1 (11.5)	7.25 (4.51)
14	23.9 (2.0)	50.2 (5.5)	-11.9 (6.5)	9.49 (4.41)	23.2 (2.1)	49.7 (7.4)	-16.0 (8.4)	12.9 (5.96)	25.4 (1.3)	52.0 (7.8)	-13.0 (6.8)	9.57 (4.81)
15	25.2 (1.4)	59.2 (3.8)	-16.0 (1.7)	11.8 (3.62)	24.4 (1.8)	60.5 (4.6)	-20.0 (4.5)	16.5 (7.16)	25.7 (1.7)	62.3 (4.6)	-14.8 (5.0)	12.7 (3.23)
16	26.3 (1.9)	59.5 (6.7)	-15.9 (2.0)	15.7 (6.19)	26.0 (2.1)	60.3 (7.5)	-20.9 (1.7)	21.0 (8.36)	26.1 (2.4)	62.4 (8.2)	-18.4 (2.3)	17.4 (4.11)
17	24.7 (1.3)	47.9 (6.1)	-15.6 (2.2)	10.9 (3.49)	23.7 (1.7)	46.4 (7.5)	-18.5 (6.5)	13.9 (5.68)	25.1 (1.4)	49.0 (7.3)	-11.6 (5.9)	10.4 (3.81)
18	25.3 (2.1)	54.8 (8.3)	-16.0 (3.2)	13.1 (5.71)	24.5 (2.3)	55.7 (10.3)	-16.8 (5.8)	17.2 (8.78)	25.8 (1.9)	57.3 (8.9)	-12.0 (5.6)	11.3 (4.56)
19	26.2 (2.5)	56.3 (8.0)	-11.8 (5.3)	9.72 (2.75)	24.5 (2.0)	55.3 (12.6)	-15.7 (7.4)	17.0 (7.64)	25.5 (1.5)	55.8 (10.6)	-14.3 (6.7)	10.7 (3.67)
20	27.7 (2.8)	59.4 (6.6)	-11.2 (5.3)	12.2 (8.92)	25.8 (3.1)	58.8 (7.8)	-20.0 (4.4)	20.2 (9.37)	26.8 (2.3)	59.6 (7.9)	-17.7 (2.6)	15.4 (8.10)
21	24.9 (1.7)	56.3 (6.4)	-13.8 (5.5)	11.4 (3.35)	24.0 (1.8)	58.1 (9.5)	-24.4 (4.6)	14.7 (4.77)	25.8 (1.2)	60.8 (9.8)	-19.0 (4.0)	11.1 (2.95)
22	25.0 (2.3)	48.9 (9.2)	-14.3 (6.7)	12.9 (6.09)	24.3 (2.6)	48.0 (9.9)	-27.0 (4.5)	15.7 (8.58)	25.9 (1.8)	52.3 (11.7)	-19.0 (6.2)	10.8 (4.50)
23	25.3 (2.1)	52.0 (8.3)	-16.1 (6.4)	13.8 (6.11)	24.8 (2.5)	51.0 (7.7)	-27.5 (3.8)	16.6 (8.34)	26.1 (1.8)	54.8 (9.2)	-19.5 (5.3)	11.9 (4.85)
24	24.5 (1.0)	61.6 (3.0)	-14.2 (6.6)	10.1 (2.07)	23.1 (1.2)	61.5 (3.2)	-28.1 (3.6)	11.4 (2.36)	25.2 (1.0)	65.5 (3.3)	-18.8 (4.9)	8.86 (2.33)
25	24.8 (2.2)	52.5 (7.9)	-14.4 (6.6)	11.8 (5.13)	24.0 (2.6)	51.8 (8.8)	-26.7 (4.3)	14.8 (7.88)	25.3 (1.9)	55.2 (10.5)	-18.9 (7.8)	9.93 (4.60)
26	25.5 (2.6)	51.3 (7.5)	-14.9 (6.0)	14.3 (7.26)	24.8 (3.1)	51.1 (7.6)	-26.5 (4.2)	17.7 (9.30)	25.8 (2.4)	53.6 (9.2)	-17.7 (7.1)	12.3 (7.10)
27	26.9 (2.5)	54.3 (6.6)	-16.8 (4.5)	18.2 (9.62)	26.2 (3.5)	54.8 (6.6)	-28.2 (2.5)	20.1 (8.49)	27.2 (2.3)	56.3 (7.5)	-20.2 (2.6)	16.7 (8.57)
28	24.2 (1.2)	63.2 (3.4)	-15.5 (6.4)	10.6 (2.62)	23.3 (1.2)	64.2 (2.9)	-26.2 (5.1)	11.7 (3.34)	24.6 (1.1)	67.6 (3.9)	-20.1 (5.0)	10.3 (3.37)
29	24.8 (1.9)	52.5 (6.6)	-23.3 (10.4)	10.3 (3.32)	24.1 (2.2)	54.1 (8.7)	-29.4 (12.6)	13.7 (6.04)	25.3 (1.6)	57.1 (8.7)	-20.0 (5.7)	10.5 (3.69)
30	26.2 (2.2)	58.2 (5.1)	-28.3 (2.0)	14.5 (7.09)	26.0 (3.2)	59.6 (5.8)	-33.8 (9.9)	17.5 (7.52)	26.7 (2.1)	62.5 (6.1)	-19.9 (4.5)	14.3 (6.37)
31	27.8 (2.7)	62.5 (4.9)	-28.9 (1.9)	19.4 (8.06)	27.7 (3.2)	63.7 (5.7)	-34.5 (6.0)	22.0 (6.57)	27.6 (2.9)	66.2 (5.6)	-21.7 (3.1)	20.2 (6.98)
Avg	25.3	56.0	-18.9	12.2	24.6	56.2	-25.3	15.3	25.8	56.8	-20.5	11.4
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.1	4.4	7.03	2.69	1.2	5.0	6.78	3.33	0.8	4.8	4.86	2.91
Min	22.9	47.9	-28.9	8.17	22.4	46.4	-35.0	9.90	24.0	49.0	-30.8	7.25
Max	27.8	65.1	-7.04	19.40	27.7	65.6	-10.0	22.0	27.6	67.6	-11.6	20.2

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for June, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	28.4 (3.0)	59.4 (9.0)	-29.1 (1.29)	18.6 (8.41)	28.2 (3.8)	61.5 (12.4)	-13.8 (13.90)	26.0 (8.45)	28.3 (3.1)	61.8 (9.6)	-22.5 (2.45)	19.9 (7.92)
2	26.8 (2.2)	55.9 (11.1)	-25.5 (9.70)	15.5 (7.94)	27.0 (3.0)	59.5 (13.8)	-26.1 (16.70)	20.7 (4.80)	26.7 (2.6)	58.1 (12.1)	-23.2 (3.80)	18.3 (5.33)
3	26.8 (2.1)	57.5 (6.8)	-28.7 (2.24)	16.3 (7.75)	26.4 (3.2)	58.6 (6.9)	-34.3 (11.20)	19.4 (5.76)	27.2 (2.0)	60.4 (8.4)	-19.8 (3.33)	15.5 (6.41)
4	29.1 (3.4)	61.7 (6.5)	-27.5 (2.45)	21.2 (8.32)	29.2 (4.0)	62.9 (6.5)	-33.7 (9.18)	23.8 (6.28)	29.0 (3.6)	64.6 (7.2)	-21.2 (2.75)	22.6 (7.68)
5	30.2 (3.3)	59.9 (7.9)	-26.9 (1.44)	23.5 (7.31)	30.9 (3.6)	60.8 (7.8)	-39.1 (7.69)	25.1 (3.27)	30.6 (3.1)	62.0 (8.2)	-21.1 (2.40)	23.8 (7.93)
6	30.4 (3.6)	59.8 (9.7)	-26.6 (1.66)	23.2 (7.39)	31.1 (3.8)	60.8 (9.4)	-42.4 (0.66)	24.2 (2.10)	30.7 (3.3)	61.8 (10.2)	-20.9 (2.27)	23.8 (7.88)
7	30.5 (3.8)	58.6 (11.7)	-26.4 (1.65)	22.9 (7.10)	31.2 (3.9)	59.9 (13.0)	-26.9 (18.60)	29.2 (7.23)	30.8 (3.5)	60.6 (12.3)	-21.1 (2.43)	23.4 (8.05)
8	30.9 (4.1)	58.1 (11.5)	-26.1 (1.46)	23.4 (7.88)	31.8 (3.8)	60.5 (15.6)	-5.3 (6.42)	35.1 (4.14)	31.6 (3.9)	60.4 (12.7)	-12.9 (9.54)	26.7 (10.0)
9	31.0 (4.0)	58.0 (11.1)	-26.6 (1.51)	24.2 (6.93)	31.5 (3.7)	59.1 (13.9)	-9.8 (8.39)	34.3 (3.72)	31.8 (3.5)	60.3 (13.1)	-5.6 (9.27)	27.9 (8.85)
10	30.5 (3.6)	57.3 (10.6)	-26.2 (2.26)	18.6 (4.80)	30.0 (3.8)	59.3 (12.6)	-12.7 (8.61)	32.6 (4.69)	30.7 (3.2)	60.2 (12.3)	-13.0 (9.88)	24.0 (7.29)
11												
12												
13	28.9 (2.3)	52.6 (7.1)	-24.8 (7.77)	15.0 (7.33)	26.9 (3.6)	57.0 (9.5)	-20.2 (3.95)	24.3 (8.28)	28.4 (2.6)	58.5 (9.7)	-21.1 (2.65)	19.5 (9.64)
14	28.6 (2.6)	55.0 (6.3)	-27.2 (2.36)	18.6 (10.0)	27.3 (3.9)	58.1 (9.4)	-20.2 (4.46)	24.8 (8.24)	28.7 (2.8)	59.5 (10.0)	-21.1 (2.14)	19.8 (9.66)
15	26.2 (1.8)	67.6 (3.7)	-27.7 (2.37)	15.1 (5.25)	25.7 (1.9)	69.8 (4.4)	-21.2 (3.00)	22.8 (7.09)	27.0 (1.5)	70.7 (3.7)	-21.7 (2.65)	15.6 (4.95)
16	28.7 (3.2)	59.0 (8.5)	-25.3 (7.08)	15.2 (6.72)	27.5 (3.7)	61.3 (10.1)	-17.0 (4.99)	25.9 (8.72)	28.7 (2.7)	61.9 (9.6)	-19.2 (6.12)	20.0 (10.1)
17	29.4 (1.9)	56.3 (11.1)	-23.9 (6.05)	14.7 (6.80)	27.7 (3.0)	58.5 (13.3)	-20.4 (3.53)	26.5 (6.22)	28.7 (2.4)	59.1 (11.7)	-20.8 (1.81)	20.5 (8.77)
18	27.6 (1.6)	46.3 (10.1)	-26.8 (3.56)	11.7 (6.46)	25.2 (2.7)	44.5 (9.6)	-18.6 (4.97)	21.4 (9.06)	27.1 (2.0)	47.1 (9.7)	-23.8 (3.38)	14.1 (6.07)
19	27.8 (2.3)	47.6 (12.3)	-24.2 (4.75)	12.6 (7.53)	25.5 (3.8)	45.9 (12.2)	-17.8 (4.23)	21.1 (10.6)	27.3 (2.6)	48.9 (13.4)	-24.3 (5.89)	16.0 (9.33)
20	26.4 (2.0)	57.7 (5.9)	-25.3 (3.85)	13.5 (7.83)	24.8 (2.8)	58.2 (6.1)	-17.8 (7.77)	19.1 (9.23)	26.9 (1.8)	60.5 (6.1)	-28.4 (1.83)	12.9 (7.08)
21	25.5 (1.6)	63.8 (4.6)	-26.6 (2.70)	12.6 (5.07)	24.5 (1.9)	66.0 (5.4)	-17.6 (6.16)	18.5 (8.37)	26.4 (1.3)	67.2 (4.6)	-27.5 (2.11)	11.7 (4.29)
22	26.2 (2.0)	65.3 (5.7)	-25.4 (2.29)	15.0 (6.46)	25.4 (2.2)	68.1 (7.0)	-17.0 (4.14)	20.6 (7.60)	26.8 (1.8)	68.3 (6.1)	-26.9 (2.15)	14.1 (6.17)
23	27.4 (2.1)	61.8 (6.2)	-24.3 (5.97)	17.2 (7.49)	26.4 (2.6)	65.3 (7.2)	-17.1 (5.28)	23.1 (8.42)	27.5 (2.0)	65.4 (5.7)	-26.6 (3.40)	15.8 (7.16)
24	27.7 (3.8)	52.1 (11.8)	-27.2 (2.16)	19.9 (8.38)	27.2 (3.9)	53.8 (13.7)	-17.1 (3.97)	23.5 (9.06)	28.4 (3.1)	54.5 (13.0)	-26.8 (2.14)	18.3 (9.82)
25	28.5 (4.4)	54.3 (13.6)	-18.6 (11.7)	23.4 (9.38)	28.2 (4.3)	55.8 (14.9)	-16.4 (4.85)	25.9 (8.82)	29.6 (3.6)	56.0 (14.5)	-21.1 (11.3)	20.4 (11.0)
26	29.9 (3.6)	55.5 (12.6)	-26.7 (1.41)	21.3 (8.48)	29.1 (4.0)	58.3 (14.9)	-19.9 (3.16)	27.0 (7.05)	30.5 (3.2)	59.7 (13.9)	-27.2 (1.30)	17.1 (4.86)
27	29.2 (3.2)	56.1 (9.7)	-26.1 (2.26)	21.0 (7.74)	28.5 (3.5)	59.8 (11.9)	-19.1 (4.36)	27.5 (5.68)	29.8 (2.9)	60.1 (10.1)	-27.0 (0.86)	17.2 (4.41)
28	30.3 (3.5)	55.9 (11.0)	-26.1 (2.22)	22.7 (7.72)	29.6 (3.9)	59.0 (13.1)	-16.2 (1.82)	30.0 (5.92)	30.8 (3.1)	59.7 (11.2)	-26.7 (1.21)	17.8 (4.82)
29	29.0 (2.9)	58.7 (8.4)	-24.7 (4.32)	20.4 (7.12)	28.2 (3.2)	61.2 (9.7)	-19.1 (3.71)	27.2 (5.05)	29.5 (2.5)	61.5 (8.4)	-27.2 (1.23)	18.8 (7.35)
30	28.6 (2.4)	57.2 (10.6)	-21.7 (7.12)	20.2 (7.41)	27.9 (2.7)	58.8 (11.8)	-18.3 (2.74)	26.4 (6.74)	29.2 (2.0)	59.9 (11.0)	-27.1 (1.23)	18.0 (6.60)
Avg	28.6	57.5	-25.8	18.5	28.0	59.4	-20.5	25.2	28.9	60.3	-22.3	19.1
n	28	28	28	28	28	28	28	28	28	28	28	28
SD	1.5	4.5	2.04	3.84	2.1	5.2	8.09	4.21	1.6	4.8	5.10	3.96
Min	25.5	46.3	-29.1	11.7	24.5	44.5	-42.4	18.5	26.4	47.1	-28.4	11.7
Max	31.0	67.6	-18.6	24.2	31.8	69.8	-5.31	35.1	31.8	70.7	-5.58	27.9

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for July, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	25.9 (3.1)	47.5 (8.7)	-26.0 (6.65)	16.8 (5.78)	25.7 (2.9)	47.7 (9.7)	-16.3 (5.70)	18.6 (7.24)	27.5 (2.1)	49.5 (9.4)	-23.9 (7.10)	12.4 (4.84)
2	25.8 (5.3)	46.1 (12.8)	-21.9 (9.51)	19.8 (8.20)	26.3 (4.3)	44.6 (12.9)	-11.8 (5.28)	23.5 (11.50)	28.0 (3.3)	47.1 (13.4)	-20.2 (10.60)	12.8 (7.71)
3	27.1 (4.5)	51.4 (11.9)	-24.6 (5.61)	20.3 (8.34)	27.0 (4.1)	50.4 (12.0)	-16.4 (4.91)	23.5 (10.00)	28.6 (3.0)	51.9 (12.5)	-24.4 (3.80)	18.8 (9.66)
4	28.2 (3.7)	59.0 (10.3)	-26.8 (2.13)	20.2 (7.22)	27.8 (3.8)	59.8 (10.7)	-19.1 (4.25)	25.4 (7.84)	29.0 (3.0)	60.4 (10.2)	-26.6 (2.25)	19.1 (8.02)
5												
6												
7												
8												
9	27.7 (1.8)	66.0 (3.8)	-20.8 (9.15)	17.7 (8.30)	26.8 (2.6)	69.8 (5.3)	-34.8 (6.11)	20.0 (6.37)	29.6 (2.7)	71.5 (5.8)	-21.5 (11.20)	15.5 (8.41)
10	27.8 (2.7)	63.2 (7.4)	-27.4 (1.71)	18.2 (8.20)	27.3 (3.2)	67.0 (9.1)	-37.8 (2.98)	20.0 (5.38)	28.0 (2.6)	66.8 (8.5)	-26.1 (2.90)	17.0 (8.46)
11												
12	27.4 (3.1)	56.3 (9.9)	-22.1 (7.58)	17.9 (9.23)	26.9 (3.8)	59.8 (12.1)	-34.7 (7.20)	19.0 (6.50)	28.0 (2.8)		-24.8 (3.54)	
13	27.2 (3.4)	55.8 (7.3)	-21.8 (7.31)	17.6 (9.04)	26.7 (3.9)	58.8 (9.3)	-31.2 (10.0)	19.2 (7.49)	27.7 (3.1)		-23.9 (5.29)	
14	27.0 (2.2)	65.8 (4.7)	-24.8 (6.25)	16.0 (7.91)	26.4 (2.7)	69.2 (6.3)	-30.9 (12.9)	19.5 (7.65)	27.5 (1.9)		-24.2 (5.56)	
15	27.5 (2.1)	64.6 (6.8)	-26.6 (2.48)	17.4 (7.53)	27.0 (2.5)	68.0 (8.0)	-37.5 (3.32)	20.0 (6.32)	27.6 (2.1)		-27.7 (1.18)	
16	27.4 (3.0)	53.9 (8.6)	-23.1 (6.94)	18.4 (8.86)	26.9 (3.7)	56.7 (10.5)	-37.0 (8.19)	19.0 (5.92)	27.9 (2.7)		-26.0 (2.76)	
17	27.5 (3.9)	52.3 (10.1)	-23.6 (9.67)	18.0 (9.30)	27.3 (4.6)	55.3 (11.6)	-33.5 (12.3)	18.8 (6.78)	28.2 (3.6)		-25.9 (4.42)	
18	27.2 (2.3)	63.5 (4.0)	-28.9 (1.91)	17.3 (7.80)	27.0 (2.9)	67.2 (5.9)	-37.2 (7.12)	20.0 (5.69)	27.9 (2.1)	66.2 (4.4)	-25.8 (3.23)	16.8 (7.63)
19	27.2 (1.9)	66.2 (2.9)	-30.4 (1.22)	16.9 (6.23)	27.1 (2.0)	70.8 (4.3)	-40.9 (4.24)	20.3 (4.54)	27.7 (1.6)	70.2 (3.2)	-27.4 (1.44)	16.6 (5.98)
20	28.8 (2.7)	61.5 (6.6)	-30.3 (2.68)	20.1 (7.26)	28.4 (3.0)	67.6 (7.9)	-39.0 (7.90)	21.3 (3.34)	29.0 (2.3)	66.6 (6.2)	-27.4 (1.95)	19.0 (8.06)
21	30.0 (3.5)	56.6 (7.6)	-29.8 (3.64)	21.3 (7.51)	29.7 (3.9)	60.9 (9.5)	-33.8 (5.92)	19.3 (2.88)	30.2 (3.3)	60.2 (8.5)	-26.3 (3.77)	20.7 (8.89)
22	28.9 (4.2)	59.6 (9.6)	-25.2 (6.87)	18.6 (7.53)	28.4 (4.5)	63.5 (11.3)	-32.6 (6.69)	19.9 (4.65)	29.1 (3.9)	62.1 (10.5)	-28.3 (1.90)	17.9 (8.17)
23	25.0 (2.3)	68.0 (4.3)	-8.9 (8.72)	10.8 (4.11)	25.4 (2.2)	72.7 (4.5)	-19.7 (13.2)	19.5 (8.62)	26.6 (1.9)	70.3 (3.8)	-28.0 (4.08)	13.6 (5.33)
24	25.7 (3.2)	63.3 (9.5)	-4.7 (7.44)	6.0 (7.28)	25.7 (2.6)	68.7 (9.0)	-20.5 (3.78)	20.3 (8.26)	27.1 (2.2)	65.8 (8.2)	-29.7 (5.32)	14.9 (6.57)
25	25.7 (2.5)				25.0 (2.7)				26.7 (2.2)	64.2 (6.8)		
26	25.6 (2.0)				25.7 (3.0)				27.2 (2.4)	62.4 (7.5)		
27	26.4 (2.6)				26.8 (2.4)				28.0 (2.0)	70.7 (4.4)		
28	27.1 (2.9)				28.0 (2.9)				29.0 (2.4)	64.6 (11.9)		
29	27.3 (3.5)				28.1 (3.3)				29.1 (2.7)	66.7 (6.9)		
30												
31												
Avg	27.1	59.0	-23.6	17.3	27.0	62.0	-29.7	20.4	28.1	63.2	-25.7	16.6
n	24	19	19	19	24	19	19	19	24	18	19	13
SD	1.1	6.4	6.45	3.43	1.1	8.0	8.93	1.79	0.9	7.0	2.28	2.49
Min	25.0	46.1	-30.4	6.02	25.0	44.6	-40.9	18.6	26.6	47.1	-29.7	12.4
Max	30.0	68.0	-4.72	21.3	29.7	72.7	-11.8	25.4	30.2	71.5	-20.2	20.7

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for August, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1												
2												
3												
4												
5												
6												
7												
8												
9	27.4 (2.2)	64.7 (6.9)	-21.6 (9.28)	11.0 (5.49)	26.2 (2.4)	67.4 (6.2)	-23.9 (6.09)	15.5 (8.05)	26.9 (2.7)	69.1 (3.9)		
10	27.3 (2.0)	61.1 (4.9)	-20.5 (9.62)	9.4 (3.69)	25.9 (2.0)	66.2 (5.5)	-20.3 (3.18)	15.2 (7.47)	24.0 (3.4)		-17.7 (1.02)	
11	26.7 (2.3)	58.1 (6.9)	-16.9 (10.8)	8.8 (4.83)	25.2 (2.4)	62.3 (8.9)	-18.4 (5.01)	13.4 (8.30)	24.3 (4.4)		-15.9 (10.40)	
12	26.9 (2.3)	54.7 (8.2)	-17.0 (12.2)	8.1 (4.80)	25.6 (2.6)	57.5 (9.8)	-18.2 (10.4)	12.7 (10.2)	26.9 (2.5)		-22.4 (12.00)	
13	25.7 (0.5)	68.4 (2.5)	-24.4 (7.47)	6.5 (1.84)	24.3 (0.5)	71.7 (1.7)	-27.4 (5.46)	8.2 (1.89)	25.8 (0.5)	73.0 (1.7)	-11.6 (8.21)	5.80 (3.39)
14	26.6 (1.8)	62.0 (5.1)	-24.6 (8.90)	8.0 (3.66)	25.1 (1.9)	65.3 (5.2)	-28.7 (5.64)	11.6 (6.08)	26.9 (1.7)	67.3 (6.0)	-13.5 (9.38)	8.09 (4.72)
15	27.5 (2.3)	61.7 (5.9)	-25.8 (8.05)	9.9 (4.48)	26.2 (2.6)	64.0 (6.4)	-28.3 (4.38)	16.0 (9.32)	27.7 (2.2)	66.1 (6.7)	-16.0 (8.90)	10.1 (5.26)
16	27.3 (1.3)	65.2 (4.8)			26.2 (1.4)	68.7 (5.6)	-27.3 (5.89)	13.6 (5.21)	27.2 (1.5)	69.6 (5.4)	-16.8 (7.98)	9.51 (3.42)
17	26.7 (1.2)	63.5 (4.2)	-25.8 (4.49)	9.0 (2.20)	25.5 (1.3)	70.5 (3.7)	-28.0 (6.61)	11.6 (3.59)	26.7 (1.1)	71.6 (3.8)	-18.0 (7.32)	8.55 (2.75)
18	27.2 (2.2)	61.4 (6.5)	-22.5 (7.20)	10.6 (5.04)	26.1 (2.8)	65.2 (7.3)	-25.6 (7.07)	15.8 (8.55)	27.5 (2.3)		-17.0 (8.94)	
19	27.7 (2.6)	60.3 (7.3)	-23.1 (7.34)	12.1 (6.31)	26.7 (3.2)	63.2 (8.0)	-26.5 (6.77)	17.5 (9.28)	28.1 (2.6)		-16.3 (9.38)	
20	28.0 (2.7)	60.0 (8.7)	-23.4 (5.65)	13.1 (6.78)	27.2 (3.2)	62.8 (9.8)	-27.4 (6.85)	17.6 (9.25)	28.3 (2.8)		-16.3 (8.57)	
21	27.9 (1.8)	62.7 (5.7)	-24.4 (6.41)	11.9 (4.94)	26.9 (2.3)	66.0 (6.6)	-31.8 (3.12)	17.5 (8.04)	27.9 (2.0)		-16.8 (8.57)	
22	27.6 (2.2)	58.6 (4.5)	-23.8 (6.79)	12.1 (5.27)	26.7 (2.6)	61.3 (4.8)	-27.3 (6.89)	16.6 (8.16)	27.8 (2.3)		-16.3 (9.30)	
23	27.8 (2.5)	59.6 (6.5)	-21.6 (7.50)	12.0 (6.85)	26.7 (2.6)	61.2 (7.0)	-26.8 (6.71)	16.4 (8.21)	27.9 (2.2)		-16.7 (8.89)	
24	27.6 (2.4)	60.0 (7.7)	-24.5 (5.97)	12.8 (6.57)	26.7 (2.8)	62.8 (8.3)	-26.2 (6.41)	17.9 (9.26)	28.0 (2.2)		-16.7 (9.01)	
25												
26												
27	28.1 (1.2)	69.8 (2.4)	-25.6 (3.21)	12.7 (2.52)	27.2 (1.3)	75.1 (2.7)	-30.7 (2.80)	16.7 (5.18)	27.9 (1.3)	76.9 (2.9)	-11.3 (8.03)	11.8 (3.01)
28	28.8 (1.5)	65.5 (4.8)	-27.1 (2.33)	14.4 (4.28)	27.9 (1.7)	72.8 (5.9)	-30.1 (3.35)	19.5 (6.64)	28.7 (1.5)	75.0 (5.9)	-19.4 (7.55)	13.5 (4.22)
29	28.3 (2.2)	63.8 (5.6)	-23.6 (7.33)	14.4 (6.19)	27.3 (2.4)	70.9 (6.4)	-30.9 (2.99)	17.2 (8.47)	28.2 (2.2)	73.9 (6.2)	-16.4 (7.09)	12.3 (5.42)
30	28.7 (2.1)	63.2 (6.1)	-23.9 (7.43)	14.8 (6.39)	27.7 (2.6)	69.7 (7.2)	-29.8 (3.16)	19.1 (8.30)	28.6 (2.3)	73.2 (7.4)	-20.4 (7.32)	13.8 (5.62)
31	29.1 (2.3)	61.1 (6.1)	-26.1 (6.10)	16.5 (7.77)	28.3 (2.8)	66.7 (7.2)	-30.2 (2.49)	20.0 (7.99)	29.1 (2.4)	70.1 (7.5)	-17.7 (7.67)	15.8 (8.17)
Avg	27.6	62.2	-23.3	11.4	26.4	66.3	-26.9	15.7	27.3	71.4	-16.7	10.9
n	21	21	20	20	21	21	21	21	21	11	20	10
SD	0.8	3.4	2.66	2.55	1.0	4.3	3.74	2.87	1.3	3.2	2.50	2.90
Min	25.7	54.7	-27.1	6.45	24.3	57.5	-31.8	8.19	24.0	66.1	-22.4	5.80
Max	29.1	69.8	-16.9	16.5	28.3	75.1	-18.2	20.0	29.1	76.9	-11.3	15.8

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for September, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	27.9 (2.2)	53.4 (10.0)	-20.8 (10.0)	13.1 (5.31)	26.7 (2.8)	57.4 (12.1)	-29.6 (6.14)	16.9 (8.39)	27.9 (2.2)	60.7 (12.4)	-19.2 (7.67)	12.0 (5.81)
2	27.0 (2.8)	52.7 (9.3)	-16.7 (11.5)	11.6 (6.47)	25.6 (3.3)	56.6 (10.8)	-21.9 (10.3)	14.9 (9.76)	27.4 (2.5)	59.8 (11.8)	-17.2 (9.51)	10.3 (6.71)
3	27.6 (3.0)	53.3 (8.2)	-17.7 (11.4)	12.4 (6.92)	26.2 (3.5)	57.7 (9.3)	-22.8 (9.34)	16.2 (10.0)	27.8 (2.7)	59.9 (9.7)	-17.6 (9.05)	11.5 (7.11)
4	27.7 (2.9)	55.0 (6.9)	-18.1 (10.7)	13.4 (7.65)	26.4 (3.5)	59.5 (7.9)	-23.4 (8.60)	16.6 (9.48)	28.0 (2.8)	61.3 (8.8)	-17.7 (8.35)	12.4 (8.10)
5	26.4 (1.0)	67.2 (3.9)	-7.09 (9.60)	9.86 (1.75)	26.0 (1.3)	74.6 (6.0)	-11.5 (13.40)	15.5 (4.86)	26.5 (1.0)	76.6 (6.0)	-9.87 (10.5)	8.96 (1.92)
6												
7												
8												
9												
10												
11	27.4 (1.1)	66.5 (3.2)	-19.8 (8.78)	11.2 (2.02)	26.2 (1.3)	73.2 (2.9)	-24.3 (5.15)	14.8 (3.74)	27.8 (0.9)	74.0 (2.5)	-9.92 (6.34)	10.3 (2.16)
12	28.2 (1.7)	63.3 (5.4)	-21.2 (9.05)	13.4 (4.95)	26.9 (2.2)	70.8 (5.6)	-26.7 (6.03)	18.0 (6.80)	28.5 (1.7)	72.3 (5.0)	-14.1 (9.18)	12.1 (4.10)
13	28.9 (2.0)	61.6 (5.4)	-23.0 (7.75)	15.3 (6.29)	27.9 (2.4)	70.3 (5.7)	-26.6 (4.31)	19.8 (7.65)	29.1 (2.0)	71.5 (4.8)	-17.4 (9.30)	14.1 (5.10)
14	29.2 (2.1)	59.8 (5.6)	-25.5 (4.67)	16.8 (6.70)	28.4 (2.3)	69.6 (6.5)	-28.3 (2.89)	21.3 (7.25)	29.6 (1.7)	71.2 (5.3)	-18.3 (9.05)	14.7 (5.14)
15	29.1 (2.1)	59.1 (5.6)	-24.2 (6.81)	16.6 (6.68)	28.3 (2.3)	68.1 (5.2)	-27.8 (5.89)	21.1 (7.65)	29.5 (1.9)	70.3 (4.5)	-17.0 (9.15)	15.1 (6.17)
16	26.3 (1.0)	59.6 (1.9)	-10.8 (6.52)	10.1 (2.39)	25.2 (0.9)	70.5 (1.9)	-21.1 (6.16)	12.6 (1.66)	26.9 (0.8)	72.3 (1.5)	-8.31 (3.91)	9.22 (1.70)
17	25.4 (1.0)	54.2 (3.3)	-7.59 (5.42)	8.71 (3.08)	24.5 (1.0)	65.1 (3.3)	-14.7 (8.19)	10.6 (2.12)	26.3 (0.9)	68.1 (2.4)	-6.42 (2.89)	7.70 (2.99)
18	26.0 (2.0)	50.2 (5.4)	-11.5 (9.71)	9.41 (4.55)	24.5 (2.4)	60.0 (7.1)	-16.3 (12.0)	11.3 (5.95)	27.0 (1.6)	63.9 (5.8)	-12.6 (9.74)	7.93 (4.28)
19	26.0 (1.4)	50.9 (3.5)	-8.69 (6.00)	9.60 (3.16)	25.1 (1.5)	60.6 (5.0)	-12.1 (10.2)	9.35 (3.86)	26.6 (1.3)	64.4 (4.0)	-16.0 (8.87)	8.11 (3.41)
20	25.4 (1.0)	54.6 (2.6)	-6.00 (3.52)	8.37 (2.82)	24.5 (0.8)	64.3 (2.5)	-12.3 (9.64)	9.47 (3.57)	26.2 (1.0)	68.5 (2.9)	-12.2 (4.99)	7.22 (2.86)
21	25.8 (1.0)	56.3 (2.3)	-8.97 (5.44)	9.68 (2.49)	24.9 (1.1)	65.0 (3.0)	-16.4 (10.7)	10.5 (3.84)	26.5 (1.0)	68.7 (2.4)	-16.1 (7.76)	8.23 (2.67)
22	25.7 (0.9)	56.9 (3.4)	-9.58 (6.45)	9.46 (2.25)	24.5 (1.2)	63.2 (5.1)	-14.6 (9.70)	10.7 (3.30)	26.3 (1.0)	66.3 (4.1)	-14.9 (7.35)	7.74 (2.72)
23	25.5 (1.3)	55.1 (2.8)	-10.9 (6.53)	8.51 (3.39)	24.2 (1.5)	61.3 (4.0)	-14.1 (8.38)	10.9 (2.65)	26.2 (1.1)	64.8 (3.6)	-15.3 (7.24)	7.54 (3.21)
24	24.3 (1.3)	50.5 (3.3)	-7.24 (4.52)	5.41 (4.14)	23.3 (1.3)	56.2 (3.7)	-9.02 (5.91)	9.34 (2.95)	25.8 (1.1)	60.5 (3.0)	-11.7 (5.75)	6.19 (3.47)
25	24.0 (1.0)	58.7 (4.2)	-8.07 (3.98)	5.00 (4.06)	23.6 (0.8)	68.3 (5.8)	-6.49 (5.50)	8.95 (2.01)	25.7 (0.7)	70.7 (5.6)	-11.4 (5.06)	6.15 (3.44)
26	26.9 (0.8)	59.1 (1.7)	-9.84 (4.21)	10.4 (1.88)	25.5 (1.1)	70.6 (2.1)	-22.8 (5.36)	12.9 (1.33)	27.5 (0.6)	73.7 (1.8)	-16.9 (6.27)	9.50 (1.47)
27	27.4 (1.4)	57.5 (3.7)	-12.4 (8.13)	11.2 (2.80)	25.5 (1.8)	68.3 (4.9)	-19.1 (8.86)	13.6 (5.39)	27.2 (1.4)	71.5 (4.2)	-18.6 (7.33)	9.72 (2.68)
28	27.1 (1.8)	57.1 (3.9)	-14.6 (9.56)	11.0 (2.75)	25.4 (2.0)	67.2 (4.7)	-19.1 (9.70)	13.8 (5.70)	27.1 (1.6)	70.2 (4.1)	-18.6 (7.84)	9.41 (3.23)
29	27.2 (1.9)	56.8 (3.9)	-15.0 (9.95)	10.9 (3.04)	25.5 (2.3)	66.1 (5.1)	-20.3 (9.10)	14.5 (5.66)	27.5 (1.7)	69.5 (5.2)	-19.3 (8.47)	9.72 (3.53)
30	26.5 (1.1)	61.4 (1.5)	-11.7 (5.54)	10.0 (1.67)	25.1 (1.3)	71.2 (1.8)	-18.7 (8.22)	11.9 (2.67)	27.0 (1.1)	73.5 (1.5)	-19.0 (6.97)	8.95 (1.39)
Avg	26.8	57.2	-13.9	10.9	25.6	65.4	-19.2	13.8	27.3	68.2	-15.0	9.79
n	25	25	25	25	25	25	25	25	25	25	25	25
SD	1.3	4.4	5.83	2.82	1.3	5.4	6.21	3.61	1.0	4.9	3.65	2.43
Min	24.0	50.2	-25.5	5.00	23.3	56.2	-29.6	8.95	25.7	59.8	-19.3	6.15
Max	29.2	67.2	-6.00	16.8	28.4	74.6	-6.49	21.3	29.6	76.6	-6.42	15.1

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for October, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	26.2 (1.6)	58.7 (4.0)	-11.4 (8.12)	9.54 (2.75)	24.6 (1.8)	68.1 (4.6)	-15.5 (8.69)	11.6 (4.44)	26.8 (1.4)	71.2 (3.9)	-16.5 (8.06)	8.30 (3.06)
2	25.0 (1.6)	50.7 (5.0)	-6.99 (5.31)	6.83 (3.92)	23.1 (1.7)	57.1 (6.5)	-9.74 (7.10)	7.95 (4.22)	26.1 (1.4)	62.8 (6.4)	-10.1 (6.75)	5.72 (3.65)
3	25.3 (1.8)	51.1 (5.6)	-9.14 (7.63)	7.26 (4.58)	23.9 (2.1)	57.9 (7.3)	-11.7 (11.1)	8.24 (4.92)	26.3 (1.5)	62.9 (7.9)	-13.3 (10.5)	6.36 (4.27)
4	25.5 (2.2)	51.4 (4.1)	-10.9 (9.08)	8.05 (4.59)	24.8 (1.7)	58.9 (6.3)	-13.2 (12.3)	9.80 (5.72)	26.7 (1.7)	63.6 (6.4)	-15.5 (11.1)	7.08 (4.21)
5	25.6 (2.2)	52.5 (3.9)	-11.4 (9.97)	8.28 (4.62)	24.7 (2.0)	60.6 (5.8)	-12.1 (11.6)	9.84 (5.90)	26.6 (1.8)	65.6 (5.7)	-14.5 (10.7)	7.09 (4.54)
6	26.3 (2.4)	52.3 (5.2)	-12.7 (9.95)	9.69 (4.39)	25.1 (2.5)	58.5 (7.5)	-14.0 (11.9)	11.8 (6.79)	27.0 (1.9)	62.8 (7.4)	-15.0 (10.2)	8.19 (4.92)
7	25.5 (1.2)	53.3 (3.8)	-9.27 (5.64)	9.29 (2.84)	24.3 (1.5)	60.0 (5.0)	-10.7 (7.16)	9.46 (2.98)	26.2 (1.2)	64.6 (4.5)	-12.6 (8.22)	6.75 (3.77)
8	25.6 (1.7)	54.0 (3.2)	-10.1 (6.90)	8.75 (3.66)	24.9 (1.5)	61.2 (3.8)	-11.5 (9.44)	9.26 (4.15)	26.4 (1.4)	64.6 (3.6)	-14.4 (9.56)	7.14 (3.83)
9	26.4 (1.4)	60.0 (3.8)	-12.2 (7.97)	9.73 (2.76)	25.3 (1.5)	67.8 (4.2)	-17.8 (9.43)	12.2 (4.63)	27.0 (1.3)	69.3 (3.5)	-18.1 (8.25)	8.37 (2.65)
10	26.4 (0.6)	62.7 (1.8)	-12.1 (5.83)	10.0 (1.58)	25.2 (1.0)	70.5 (2.1)	-17.6 (4.14)	12.0 (1.23)	27.1 (0.6)	72.2 (1.5)	-19.4 (5.27)	8.62 (1.11)
11	26.0 (0.5)	62.3 (2.0)	-10.4 (4.81)	9.41 (1.17)	24.5 (0.7)	70.8 (2.0)	-16.4 (7.42)	11.1 (2.82)	26.7 (0.7)	72.2 (2.3)	-17.3 (3.12)	7.97 (1.13)
12	26.1 (1.3)	58.5 (1.7)	-11.5 (6.10)	9.88 (2.09)	25.1 (1.5)	64.8 (2.2)	-13.7 (9.78)	10.0 (3.62)	26.6 (1.1)	67.9 (1.9)	-19.3 (8.22)	8.03 (2.87)
13	26.0 (1.9)	56.5 (3.6)	-13.8 (10.6)	9.60 (3.74)	25.4 (2.0)	61.3 (5.3)	-15.1 (13.2)	10.4 (5.15)	26.9 (1.7)	66.5 (4.7)	-18.2 (9.92)	7.77 (3.84)
14	26.0 (2.5)	53.7 (5.6)	-13.3 (10.9)	9.16 (4.50)	25.5 (2.2)	58.5 (8.2)	-14.0 (13.1)	10.8 (7.06)	27.1 (1.9)	63.5 (7.9)	-16.9 (10.6)	7.77 (4.83)
15	26.3 (2.7)	51.8 (6.8)	-13.6 (11.1)	10.5 (6.37)	25.8 (2.6)	57.9 (8.4)	-15.3 (12.8)	12.3 (8.02)	27.4 (2.2)	62.1 (8.9)	-17.0 (9.59)	8.76 (5.63)
16	26.6 (2.5)	53.2 (6.3)	-14.8 (11.1)	11.1 (5.60)	25.9 (2.5)	59.3 (7.9)	-17.3 (12.6)	12.9 (7.53)	27.5 (2.1)	62.9 (7.3)	-18.1 (8.77)	8.87 (4.50)
17	25.6 (1.3)	61.4 (2.7)	-10.1 (5.96)	9.23 (2.47)	25.0 (1.4)	68.3 (2.8)	-13.2 (9.70)	9.91 (3.90)	26.6 (1.1)	69.3 (2.6)	-17.2 (7.99)	7.55 (2.96)
18	23.9 (1.0)	58.7 (3.5)	-4.88 (3.12)	5.35 (4.14)	24.0 (0.8)	67.1 (3.8)	-1.08 (4.70)	5.46 (1.85)	25.4 (1.4)	68.0 (3.2)	-8.52 (7.85)	4.11 (3.81)
19	23.8 (1.4)	52.4 (3.3)	-4.90 (4.05)	5.41 (4.35)	23.5 (1.2)	60.1 (2.5)	-1.82 (5.35)	5.48 (2.36)	25.3 (1.5)	62.3 (3.3)	-8.58 (8.05)	4.30 (4.01)
20	22.5 (1.8)	51.2 (5.6)	-5.38 (4.33)	6.28 (4.33)	22.6 (1.4)	59.1 (5.4)	-3.35 (5.16)	5.37 (3.04)	24.9 (1.6)	62.1 (6.2)	-7.56 (7.78)	3.83 (3.82)
21	23.0 (2.2)	51.8 (4.7)	-9.67 (8.06)	7.87 (4.52)	23.5 (1.6)	58.5 (5.9)	-6.79 (7.82)	6.83 (3.87)	24.9 (1.6)	60.3 (6.8)	-12.3 (10.3)	5.37 (4.19)
22	22.4 (1.5)	49.6 (4.4)	-6.21 (3.55)	6.78 (3.72)	22.9 (1.2)	57.4 (3.7)	-2.09 (4.37)	5.25 (2.13)	24.2 (1.5)	59.1 (4.9)	-9.77 (8.58)	4.45 (3.80)
23	22.5 (1.5)	52.3 (3.4)	-6.84 (4.27)	7.08 (3.83)	23.0 (1.4)	60.3 (2.8)	-2.51 (5.58)	5.39 (2.64)	24.3 (1.5)	63.1 (3.3)	-11.5 (8.43)	5.10 (3.74)
24	23.2 (0.9)	58.2 (5.4)	-7.42 (2.09)	8.53 (2.03)	24.0 (0.8)	66.0 (5.4)	-3.23 (5.93)	6.00 (2.54)	24.6 (1.0)	68.1 (4.5)	-14.1 (6.95)	6.21 (3.20)
25	25.2 (1.3)	62.0 (2.1)	-18.1 (8.72)	11.7 (2.62)	25.0 (1.4)	69.3 (2.8)	-14.7 (9.50)	10.6 (3.87)	26.5 (1.1)	71.8 (2.2)	-18.9 (6.70)	9.79 (2.57)
26	23.4 (1.4)	54.2 (2.8)	-10.9 (6.58)	9.09 (2.89)	24.1 (0.8)	60.5 (4.0)	-7.33 (8.05)	7.32 (3.55)	25.3 (1.4)	65.5 (3.4)	-14.3 (8.42)	6.23 (3.43)
27	22.6 (1.7)	52.8 (3.2)	-7.53 (6.06)	7.28 (4.17)	22.9 (1.2)	60.9 (3.7)	-3.84 (5.61)	5.97 (3.03)	24.5 (1.8)	63.8 (4.3)	-9.68 (8.60)	4.63 (3.80)
28	22.0 (1.5)	50.3 (4.1)	-5.29 (3.62)	5.92 (4.10)	22.4 (1.3)	59.1 (4.0)	-1.73 (1.67)	4.32 (1.58)	24.0 (1.7)	61.9 (4.1)	-7.29 (8.68)	3.52 (3.82)
29	22.0 (1.7)	50.6 (4.5)	-5.37 (3.84)	5.89 (4.09)	22.3 (1.5)	58.8 (3.8)	-2.09 (3.19)	4.26 (2.25)	24.1 (1.8)	63.1 (4.9)	-8.40 (8.60)	3.82 (3.81)
30	21.8 (1.7)	51.0 (5.0)	-5.08 (3.47)	5.89 (4.11)	22.2 (1.5)	60.5 (3.4)	-1.76 (3.22)	4.44 (2.38)	24.1 (1.9)	64.5 (5.4)	-8.99 (8.47)	3.98 (3.75)
31	22.1 (2.0)	48.5 (6.5)	-5.68 (4.73)	6.00 (4.35)	22.3 (1.6)	58.5 (6.3)	-3.18 (4.83)	5.12 (3.13)	24.4 (1.9)	63.1 (7.4)	-10.2 (8.56)	4.53 (3.81)
Avg	24.6	54.4	-9.57	8.24	24.1	61.9	-9.49	8.43	25.9	65.2	-13.7	6.46
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.7	4.1	3.37	1.73	1.1	4.2	5.80	2.78	1.1	3.5	3.84	1.81
Min	21.8	48.5	-18.1	5.35	22.2	57.1	-17.8	4.26	24.0	59.1	-19.4	3.52
Max	26.6	62.7	-4.88	11.7	25.9	70.8	-1.08	12.9	27.5	72.2	-7.29	9.79

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for November, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	22.7 (2.2)	48.0 (6.6)	-8.20 (7.48)	6.83 (4.88)	23.0 (1.7)	55.7 (8.1)	-5.90 (7.06)	6.62 (4.02)	24.9 (2.0)	60.0 (8.2)	-12.4 (10.4)	5.33 (4.19)
2	23.4 (2.3)	49.2 (5.0)	-11.6 (10.9)	8.14 (4.65)	23.6 (1.8)	56.6 (6.6)	-8.73 (10.9)	6.98 (4.10)	25.0 (1.9)	59.7 (6.8)	-14.6 (10.5)	5.81 (4.44)
3	23.9 (0.7)	61.6 (3.6)	-7.32 (3.17)	9.11 (1.17)	24.1 (1.0)	69.7 (4.1)	-3.99 (7.31)	6.87 (3.18)	24.6 (1.2)	69.4 (2.8)	-13.6 (6.54)	6.44 (3.15)
4	23.1 (1.0)	63.6 (2.5)	-14.7 (6.20)	11.4 (1.66)	22.6 (1.4)	69.4 (2.3)	-13.1 (8.16)	10.7 (3.28)	23.9 (0.8)	69.9 (2.0)	-23.1 (9.17)	9.12 (2.50)
5	22.4 (0.7)	59.7 (3.1)	-17.1 (5.16)	12.0 (1.36)	21.5 (0.9)	65.2 (2.7)	-16.8 (3.31)	12.4 (1.54)	23.5 (0.5)	66.3 (2.7)	-24.1 (7.11)	9.96 (1.43)
6	22.6 (2.2)	51.3 (5.8)	-14.9 (11.2)	12.3 (4.54)	22.4 (2.3)	56.5 (6.9)	-16.7 (11.8)	12.7 (6.62)	23.5 (1.8)	57.9 (6.3)	-19.8 (6.93)	10.4 (4.06)
7	22.4 (2.7)	52.8 (5.3)	-14.5 (11.3)	12.2 (5.47)	22.4 (2.4)	58.1 (6.3)	-16.5 (12.1)	12.9 (7.20)	23.9 (2.3)	59.9 (5.9)	-19.1 (8.21)	9.63 (4.57)
8	22.3 (0.9)		-13.6 (6.85)		22.3 (1.5)		-11.0 (8.53)				-17.9 (9.63)	
9	21.6 (1.6)		-10.6 (8.81)		22.4 (1.6)		-4.94 (7.70)				-11.7 (10.7)	
10	20.0 (1.9)	49.8 (5.1)	-6.55 (5.13)	7.99 (4.30)	19.9 (1.3)	55.7 (6.5)	-5.86 (6.75)	7.18 (3.76)	21.7 (1.9)	56.3 (5.6)	-11.5 (7.96)	6.37 (3.98)
11	19.7 (1.8)	52.4 (3.5)	-5.90 (4.49)	7.53 (4.04)	19.8 (1.3)	57.8 (4.2)	-5.15 (7.01)	6.75 (3.46)	21.3 (1.9)	59.8 (3.6)	-11.2 (7.26)	5.93 (3.73)
12	20.3 (1.5)	50.4 (3.7)	-6.77 (4.70)	8.68 (3.27)	20.6 (0.9)	55.4 (4.9)	-7.71 (8.09)	8.16 (3.81)	21.7 (1.5)	57.8 (4.2)	-14.1 (6.71)	7.32 (3.06)
13	22.3 (1.5)	64.9 (5.7)	-14.6 (8.59)	11.5 (2.40)	22.1 (1.4)	70.5 (6.4)	-15.4 (8.24)	11.4 (3.50)	23.4 (1.2)	69.6 (4.5)	-22.5 (6.68)	10.3 (2.21)
14	22.4 (0.8)	65.9 (2.6)	-15.5 (6.06)	11.8 (1.72)	21.6 (1.1)	72.5 (3.3)	-17.8 (5.73)	12.3 (2.41)	23.4 (0.5)	70.7 (2.5)	-22.2 (7.64)	9.77 (1.77)
15	24.6 (1.9)	61.1 (5.9)	-21.1 (9.40)	16.1 (4.61)	24.1 (2.0)	68.8 (6.0)	-24.2 (10.2)	16.2 (5.86)	24.6 (1.7)	67.0 (4.2)	-22.8 (5.98)	13.7 (4.36)
16	20.3 (1.5)	49.7 (3.6)	-6.48 (3.85)	8.78 (2.73)	20.6 (1.1)	56.9 (4.5)	-6.41 (6.89)	7.17 (3.35)	21.4 (1.5)	57.4 (4.4)	-10.9 (6.05)	6.53 (3.39)
17	19.4 (1.8)	51.3 (3.8)	-4.76 (2.87)	7.26 (3.73)	19.6 (1.2)	59.2 (4.0)	-3.87 (5.54)	5.99 (2.70)	20.9 (1.9)	59.1 (4.6)	-9.94 (6.76)	5.60 (3.72)
18	19.0 (1.2)	49.4 (3.4)	-3.54 (2.59)	6.31 (4.10)	19.1 (0.7)	58.0 (3.5)	-0.60 (1.15)	4.19 (1.67)	20.6 (1.8)	58.0 (5.0)	-6.35 (7.55)	4.29 (4.07)
19	14.6 (3.3)	50.0 (3.8)	-2.64 (3.18)	4.89 (4.59)	18.5 (0.9)	59.1 (4.7)	-1.52 (1.68)	3.20 (2.24)	20.9 (1.9)	60.1 (4.3)	-7.95 (8.00)	4.09 (3.96)
20	16.5 (3.4)	50.9 (5.8)	-3.96 (3.14)	5.57 (4.32)	18.7 (1.3)	57.0 (6.3)	-6.26 (10.2)	4.23 (3.12)	21.4 (1.8)	57.6 (5.0)	-9.98 (7.69)	5.16 (3.96)
21	15.3 (2.0)	47.9 (4.2)	-3.00 (2.96)	5.01 (4.47)	17.9 (0.8)	56.1 (3.8)	-1.63 (1.84)	2.89 (2.23)	21.0 (1.6)	56.2 (4.1)	-7.19 (7.89)	4.35 (4.07)
22	13.7 (3.1)	50.1 (4.3)	-3.30 (3.21)	4.87 (4.51)	17.9 (1.0)	58.4 (4.8)	-2.06 (1.71)	2.80 (2.29)	21.2 (2.0)	59.7 (5.6)	-8.37 (8.21)	4.17 (3.95)
23	15.6 (3.4)	49.3 (6.8)	-3.78 (3.50)	5.28 (4.41)	19.3 (1.6)	57.7 (7.5)	-4.61 (7.74)	3.12 (3.26)	21.5 (1.9)	57.7 (6.6)	-10.5 (8.15)	5.00 (3.88)
24	16.6 (4.4)	51.5 (7.6)	-3.81 (3.00)	5.65 (4.28)	20.5 (1.1)	59.8 (8.0)	-7.38 (8.48)	3.60 (4.13)	21.4 (1.9)	59.6 (6.2)	-11.2 (7.48)	5.56 (3.72)
25	19.4 (1.8)	47.0 (7.3)	-4.29 (2.96)	6.22 (4.04)	20.5 (1.1)	54.9 (7.9)	-7.94 (8.59)	4.01 (4.13)	21.7 (1.4)	56.4 (5.9)	-12.0 (6.89)	6.25 (3.43)
26	16.4 (3.1)	49.3 (5.8)	-3.59 (2.89)	5.31 (4.27)	20.4 (1.3)	58.8 (6.8)	-5.13 (7.41)	2.60 (3.79)	20.1 (2.0)	57.5 (5.7)	-7.90 (7.69)	4.20 (3.99)
27	17.3 (3.6)	49.9 (6.0)	-4.18 (2.89)	5.95 (4.15)	20.6 (1.3)	59.2 (7.3)	-7.70 (8.72)	3.58 (4.11)	20.4 (2.4)	57.0 (6.4)	-10.1 (8.12)	4.78 (3.91)
28	19.3 (2.5)	50.0 (5.3)	-6.06 (5.25)	6.97 (4.42)	21.0 (1.5)	58.1 (6.4)	-9.06 (8.53)	4.48 (4.17)	21.8 (1.7)	57.4 (5.3)	-13.6 (10.2)	6.02 (4.04)
29	19.4 (0.9)	54.2 (3.4)	-4.00 (2.64)	5.62 (4.25)	20.5 (1.1)	64.0 (4.5)	-6.82 (8.16)	3.08 (3.84)	17.8 (3.8)	62.4 (4.2)	-6.10 (7.70)	4.91 (4.12)
30	21.0 (1.5)	59.6 (3.3)	-5.40 (3.15)	7.51 (3.37)	20.7 (0.9)	69.4 (3.5)	-12.8 (8.70)	5.70 (3.81)	19.0 (3.2)	68.3 (2.8)	-2.55 (5.01)	6.00 (4.34)
Avg	19.9	53.2	-8.19	8.10	20.9	60.7	-8.58	6.85	22.0	61.0	-13.2	6.68
n	30	28	30	28	30	28	30	28	28	28	30	28
SD	3.0	5.6	5.11	2.88	1.7	5.4	5.62	3.77	1.8	4.7	5.67	2.40
Min	13.7	47.0	-21.1	4.87	17.9	54.9	-24.2	2.60	17.8	56.2	-24.1	4.09
Max	24.6	65.9	-2.64	16.1	24.1	72.5	-0.60	16.2	25.0	70.7	-2.55	13.7

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for December, 2008.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	19.9 (1.6)	49.1 (4.7)	-5.02 (2.75)	6.94 (3.68)	20.7 (1.0)	57.4 (5.3)	-7.26 (8.42)	3.86 (4.11)	21.6 (1.3)	57.0 (4.8)	-7.95 (5.48)	6.01 (3.72)
2	16.9 (2.3)	51.5 (3.5)	-3.81 (3.45)	5.09 (4.41)	20.4 (1.3)	62.3 (3.9)	-4.97 (7.84)	2.29 (3.57)	20.5 (1.7)	60.0 (3.6)	-6.82 (6.38)	4.35 (3.97)
3	15.8 (3.7)	51.5 (5.3)	-3.81 (3.20)	5.32 (4.46)	20.4 (1.3)	62.6 (6.5)	-5.31 (7.72)	2.56 (3.77)	19.7 (2.1)	59.2 (5.0)	-5.76 (6.25)	4.08 (4.13)
4	17.9 (3.4)	49.6 (6.3)	-4.52 (3.12)	6.11 (4.24)	20.4 (1.2)	60.1 (8.2)	-7.88 (8.95)	3.62 (4.12)	21.1 (1.9)	57.2 (5.7)	-7.55 (5.66)	5.37 (4.11)
5	19.3 (1.2)	52.4 (2.2)	-3.76 (2.73)	5.53 (4.24)	20.5 (1.2)	62.5 (2.4)	-5.58 (7.97)	2.74 (3.79)	20.9 (1.4)	61.5 (4.0)	-7.27 (5.67)	5.23 (4.06)
6	18.1 (2.5)	51.8 (3.2)	-4.42 (4.39)	5.85 (4.33)	20.4 (1.2)	62.0 (4.0)	-7.31 (9.28)	3.25 (4.03)	20.8 (1.7)	60.7 (3.4)	-7.39 (6.19)	5.12 (4.09)
7	17.3 (2.3)	50.1 (4.2)	-3.53 (3.27)	4.92 (4.46)	20.4 (1.3)	59.4 (5.2)	-4.23 (7.11)	2.03 (3.37)	20.3 (1.8)	59.8 (3.6)	-5.52 (5.93)	4.27 (4.16)
8	15.4 (3.5)	51.0 (6.4)	-3.58 (3.15)	4.92 (4.49)	20.4 (1.3)	60.8 (6.4)	-4.77 (7.37)	2.22 (3.55)	19.8 (2.2)	59.3 (5.0)	-6.10 (5.73)	4.22 (4.11)
9	20.0 (3.2)	54.4 (1.8)	-7.37 (5.64)	8.08 (4.09)	21.4 (1.3)	63.5 (1.8)	-13.1 (8.92)	5.88 (3.91)	22.3 (1.9)	61.8 (2.5)	-12.9 (8.54)	7.76 (4.11)
10	23.5 (0.9)	64.1 (2.7)	-17.10 (8.30)	11.9 (2.08)	23.1 (0.9)	71.8 (2.3)	-27.3 (7.70)	11.70 (3.29)	24.6 (0.9)	70.9 (2.4)	-22.7 (5.99)	12.3 (1.77)
11	23.5 (1.1)	65.8 (2.0)	-19.00 (7.16)	13.0 (1.41)	23.3 (1.0)	73.4 (2.3)	-25.0 (9.45)	11.10 (2.92)	24.7 (0.8)	72.6 (1.3)	-21.9 (6.28)	13.0 (1.49)
12	20.7 (1.6)	49.6 (5.4)	-5.53 (2.44)	7.99 (2.98)	20.5 (0.9)	59.3 (5.3)	-10.6 (8.96)	5.04 (4.06)	21.5 (1.3)	58.3 (5.3)	-7.75 (4.06)	7.43 (3.20)
13	16.8 (2.2)	51.0 (4.0)			20.4 (1.3)	59.7 (3.9)			19.9 (1.8)	58.3 (3.8)		
14	18.5 (3.2)	54.5 (2.4)	-5.04 (2.81)	6.85 (3.83)	20.6 (1.2)	63.3 (2.2)	-11.1 (9.48)	4.80 (4.14)	21.1 (1.8)	60.9 (2.4)	-8.28 (4.98)	6.32 (3.90)
15	22.0 (1.3)	57.4 (1.7)	-11.7 (7.46)	10.1 (2.41)	21.6 (1.4)	65.0 (2.3)	-20.4 (9.14)	8.74 (3.83)	22.7 (1.2)	63.6 (1.8)	-15.3 (7.38)	9.52 (2.73)
16	20.7 (1.1)	59.7 (3.5)	-6.80 (3.86)	8.11 (3.16)	20.8 (1.1)	68.6 (3.5)	-12.9 (8.75)	5.81 (3.89)	21.1 (1.4)	65.7 (3.3)	-8.19 (4.89)	6.24 (3.79)
17	21.5 (1.7)	60.2 (2.5)	-9.43 (7.28)	8.78 (3.46)	21.4 (1.4)	68.9 (2.6)	-18.1 (10.4)	7.65 (4.36)	21.7 (1.6)	66.4 (2.8)	-11.2 (7.44)	7.39 (3.77)
18	22.1 (0.6)	61.8 (1.9)	-9.27 (4.35)	9.62 (1.18)	21.7 (0.7)	72.0 (2.1)	-12.6 (8.86)	7.47 (3.27)	21.6 (0.6)	70.2 (1.1)	-10.1 (3.47)	7.89 (2.43)
19	23.0 (1.5)	57.7 (3.7)	-14.5 (7.63)	11.8 (2.65)	22.9 (1.5)	66.3 (5.1)	-5.41 (3.64)	8.40 (4.06)	22.8 (1.6)	64.9 (5.1)	-15.1 (8.02)	9.63 (3.80)
20	22.9 (1.2)		-14.1 (8.78)		22.7 (1.3)		-6.49 (5.16)		22.8 (1.3)		-15.0 (7.29)	
21	20.9 (1.9)		-6.61 (3.72)		22.0 (0.9)		-2.13 (3.07)		21.1 (1.4)		-8.21 (4.74)	
22	9.5 (3.2)		-2.05 (3.25)		12.6 (4.3)		0.26 (1.03)		12.3 (3.1)		-1.45 (4.33)	
23	8.3 (2.5)		-0.31 (0.67)		9.7 (2.5)		-0.30 (1.64)		9.9 (1.9)		-0.56 (0.81)	
24												
25	15.8 (1.7)		0.12 (0.48)		15.9 (1.6)		0.69 (0.54)		16.2 (1.7)		0.40 (0.61)	
26	11.0 (1.1)		-0.47 (0.89)		11.5 (0.8)		0.15 (0.69)		11.3 (1.0)		-0.52 (1.02)	
27	13.3 (1.9)		-0.44 (3.10)		13.6 (1.9)		-0.04 (3.03)		13.7 (1.9)		-0.43 (4.31)	
28	20.0 (2.7)	60.2 (9.8)	-0.84 (0.53)	4.91 (0.05)	20.1 (2.6)	70.3 (7.3)	-0.14 (0.43)	4.92 (0.06)	20.3 (2.6)	68.3 (7.0)	-0.46 (0.50)	4.89 (0.05)
29	15.5 (2.4)	58.3 (3.3)	-0.52 (0.93)	4.97 (0.17)	15.5 (2.0)	72.4 (5.5)	0.31 (0.93)	4.10 (1.57)	13.9 (3.2)	69.4 (6.1)	-0.39 (1.00)	5.00 (0.05)
30	16.8 (4.2)	50.8 (10.2)	-2.44 (3.01)	3.94 (3.53)	16.0 (3.6)	64.2 (13.0)	-0.19 (0.42)	1.69 (0.68)	10.8 (4.5)	59.4 (16.5)	-1.40 (0.45)	5.02 (0.07)
31												
Avg	18.2	55.1	-5.92	7.37	19.3	64.8	-7.56	5.23	19.3	63.0	-7.71	6.72
n	29	22	28	21	29	22	28	21	29	22	28	21
SD	4.0	5.0	5.13	2.59	3.6	4.8	7.59	2.88	4.1	4.7	6.14	2.51
Min	8.3	49.1	-19.0	3.94	9.7	57.4	-27.3	1.69	9.9	57.0	-22.7	4.08
Max	23.5	65.8	0.12	13.0	23.3	73.4	0.69	11.7	24.7	72.6	0.40	13.0

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for January, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	13.4 (2.4)	50.7 (6.4)	-3.79 (4.83)		16.5 (3.0)	62.6 (4.7)	-7.84 (10.8)	2.46 (2.73)	14.5 (1.7)	62.0 (7.2)	-2.73 (4.67)	2.42 (3.68)
2	14.9 (1.8)	56.6 (2.4)	-6.20 (6.25)		18.0 (3.4)	67.8 (3.0)	-8.04 (12.6)	2.13 (2.56)	15.1 (2.9)	68.9 (2.3)	-3.32 (5.56)	2.61 (3.76)
3	18.4 (3.0)	53.1 (3.5)	-4.12 (5.56)	2.69 (3.72)	20.4 (2.1)	68.9 (4.6)	-7.98 (11.3)	2.00 (2.32)	17.4 (1.5)	65.1 (5.6)	-4.23 (5.87)	3.25 (3.94)
4	20.7 (1.8)	56.4 (1.8)	-3.89 (5.61)	2.49 (3.62)	22.8 (2.0)	72.5 (1.6)	-8.13 (9.35)	2.16 (2.22)	20.7 (2.1)	68.8 (1.7)	-2.74 (5.16)	2.25 (3.40)
5	22.9 (0.9)	55.9 (1.5)	-5.04 (5.73)	3.56 (3.94)	24.9 (0.6)	70.8 (1.6)	-15.3 (15.4)	3.40 (3.14)	23.4 (0.9)	68.4 (1.3)	-3.69 (5.60)	3.18 (3.84)
6	23.9 (0.7)	55.5 (1.3)	-4.77 (5.21)	3.73 (3.98)	25.7 (0.6)	70.3 (1.8)	-16.1 (15.8)	3.33 (2.97)	24.0 (0.8)	67.5 (1.8)	-4.83 (6.01)	3.86 (4.02)
7	23.0 (2.1)	49.4 (4.8)	-4.70 (4.82)	3.84 (4.12)	24.8 (1.4)	63.1 (5.8)	-15.6 (15.1)	3.32 (3.05)	22.8 (2.1)	59.7 (7.1)	-3.78 (5.42)	4.07 (4.20)
8	19.0 (1.5)	51.9 (2.7)	-2.78 (4.19)	2.25 (3.52)	22.7 (1.0)	64.2 (2.7)	-5.58 (6.04)	1.64 (1.79)	19.2 (1.5)	59.1 (3.1)	-1.91 (4.39)	2.21 (3.51)
9	17.6 (2.5)	51.8 (4.8)	-2.91 (3.89)	2.14 (3.39)	22.1 (2.3)	64.8 (3.7)	-5.77 (5.92)	1.67 (1.70)	18.3 (2.5)	60.4 (4.9)	-1.99 (4.12)	2.08 (3.35)
10	20.2 (3.9)	51.1 (5.5)	-3.13 (4.48)	2.68 (3.73)	23.3 (2.5)	65.2 (5.5)	-5.94 (7.85)	2.13 (2.41)	20.7 (3.6)	61.4 (4.6)	-2.00 (4.39)	2.39 (3.60)
11	22.8 (1.6)		-3.01 (3.98)		25.3 (0.9)	66.7 (2.7)	-6.95 (10.8)	2.20 (2.93)	22.9 (1.5)	63.8 (3.4)	-2.42 (5.74)	2.57 (3.77)
12	18.3 (1.9)	59.0 (5.0)	-2.75 (3.53)	2.19 (3.50)	22.7 (1.6)	64.9 (3.8)	-5.75 (9.63)	1.49 (2.58)	19.0 (2.0)	61.3 (3.7)	-2.08 (4.23)	2.09 (3.53)
13	17.8 (1.4)	66.6 (2.7)	-3.00 (3.97)	2.08 (3.37)	21.9 (0.9)	70.6 (2.2)	-5.99 (9.38)	1.49 (2.57)	18.1 (1.4)	66.2 (1.9)	-2.18 (4.08)	2.01 (3.47)
14	17.6 (2.3)	65.3 (3.8)	-3.13 (4.26)	2.02 (3.44)	22.2 (1.8)	68.7 (3.9)	-6.00 (6.73)	1.64 (1.95)	17.8 (2.2)	63.8 (4.6)	-2.25 (4.01)	1.97 (3.23)
15	17.4 (3.1)	60.4 (6.3)	-2.92 (3.65)	2.15 (3.56)	19.7 (3.3)	61.9 (7.8)	-3.76 (5.24)	2.08 (2.87)	17.2 (2.6)	59.3 (7.0)	-1.97 (4.33)	2.09 (3.34)
16	12.2 (2.3)	61.2 (2.8)	-2.48 (2.51)	2.05 (3.34)	12.0 (1.9)	61.6 (3.1)	-1.99 (2.93)	2.47 (3.36)	12.0 (2.0)	61.7 (3.4)	-1.83 (4.32)	1.98 (3.28)
17	13.8 (3.4)	63.4 (5.8)	-2.74 (2.58)	2.06 (3.32)	13.5 (3.7)	65.7 (6.2)	-4.59 (5.00)	2.35 (2.83)	13.0 (3.2)	63.3 (5.9)	-2.63 (4.41)	1.96 (3.26)
18	17.3 (2.1)	63.8 (3.3)	-2.35 (2.69)	2.19 (3.37)	17.5 (2.0)	67.5 (2.5)	-4.71 (5.19)	2.27 (2.48)	15.9 (2.0)	65.7 (2.3)	-2.06 (4.61)	2.02 (3.31)
19	20.4 (2.3)	62.6 (2.5)	-2.57 (2.78)	2.21 (3.46)	20.8 (2.3)	66.7 (2.4)	-4.79 (4.98)	2.23 (2.29)	18.8 (2.3)	64.4 (3.7)	-2.27 (4.71)	2.08 (3.36)
20	15.9 (2.3)	64.9 (3.2)	-3.24 (2.86)	2.02 (3.24)	17.1 (2.1)	68.1 (2.4)	-4.60 (4.89)	2.28 (2.29)	14.8 (2.2)	67.2 (1.7)	-2.57 (5.29)	1.89 (3.25)
21	15.1 (2.4)	65.1 (3.5)	-2.51 (2.64)	1.99 (3.28)	15.9 (2.3)	67.9 (3.8)	-5.26 (7.66)	2.19 (2.77)	14.2 (2.5)	66.2 (3.7)	-2.80 (5.86)	1.87 (3.29)
22	17.2 (3.9)	60.0 (7.1)	-2.42 (2.88)	2.17 (3.54)	18.3 (3.7)	63.4 (6.7)	-5.22 (8.70)	2.07 (3.45)	16.4 (3.7)	61.6 (6.8)	-3.03 (5.94)	2.02 (3.35)
23	20.6 (2.7)	56.9 (4.7)	-2.62 (3.00)	2.49 (3.69)	21.8 (3.1)	61.3 (4.2)	-5.09 (7.85)	2.14 (3.14)	20.0 (3.2)	60.1 (5.0)	-3.09 (6.09)	2.14 (3.31)
24	22.2 (1.5)	57.5 (4.9)	-3.08 (2.83)	2.68 (3.75)	23.7 (1.3)	63.0 (4.2)	-5.20 (7.39)	2.13 (3.11)	21.9 (1.7)	60.8 (4.7)	-3.69 (6.26)	2.28 (3.32)
25												
26	18.1 (1.5)	58.2 (2.1)	-2.77 (2.45)	2.15 (3.65)	18.5 (1.1)	63.2 (1.5)	-5.47 (6.57)	2.20 (2.94)	18.2 (1.8)	62.2 (1.7)	-3.57 (5.75)	1.97 (3.39)
27	20.7 (1.8)	60.2 (1.8)	-2.64 (2.75)	2.39 (3.61)	21.0 (2.0)	64.9 (1.2)	-5.43 (6.07)	2.21 (2.65)	20.7 (1.7)	63.4 (1.8)	-3.63 (6.11)	2.14 (3.39)
28	23.9 (1.8)	61.5 (2.1)	-4.17 (3.10)	5.10 (4.22)	24.6 (1.5)	64.7 (2.4)	-11.0 (10.4)	4.32 (3.59)	23.9 (1.9)	63.4 (2.3)	-5.36 (6.35)	4.12 (4.03)
29	21.9 (1.8)	57.8 (2.7)	-3.09 (2.63)	2.76 (3.80)	23.2 (1.9)	62.0 (2.3)	-6.92 (7.64)	2.54 (2.78)	22.3 (1.6)	59.5 (3.1)	-3.59 (5.63)	2.25 (3.43)
30	19.9 (2.2)	57.7 (5.9)	-2.68 (2.75)	2.46 (3.75)	17.6 (2.3)	58.3 (8.3)	-3.76 (7.47)	3.05 (3.30)	20.6 (2.1)		-3.30 (7.77)	
31	19.4 (2.2)	55.1 (5.1)	-2.48 (2.80)	2.11 (3.61)	16.5 (3.6)	57.1 (5.2)	-4.98 (7.61)	3.03 (3.30)	19.7 (2.1)	56.9 (6.0)	-2.78 (6.29)	1.89 (3.35)
Avg	18.9	58.3	-3.27	2.54	20.5	65.3	-6.79	2.35	18.8	63.2	-2.94	2.40
n	30	29	30	27	30	30	30	30	30	29	30	29
SD	3.1	4.7	0.91	0.71	3.5	3.6	3.38	0.62	3.3	3.2	0.88	0.64
Min	12.2	49.4	-6.20	1.99	12.0	57.1	-16.1	1.49	12.0	56.9	-5.36	1.87
Max	23.9	66.6	-2.35	5.10	25.7	72.5	-1.99	4.32	24.0	68.9	-1.83	4.12

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for February, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	20.9 (2.3)	53.7 (6.2)	-2.98 (3.06)	3.15 (4.10)	20.3 (3.6)	57.5 (5.6)	-7.16 (8.44)	2.93 (3.03)	21.2 (2.4)	56.4 (6.4)	-3.77 (6.62)	2.50 (3.63)
2	21.7 (1.9)	56.7 (3.6)	-3.44 (3.05)	3.61 (4.15)	22.0 (2.7)	60.9 (2.8)	-8.00 (8.74)	3.10 (3.10)	21.7 (2.1)	58.7 (3.7)	-4.31 (6.69)	2.61 (3.61)
3	19.3 (1.9)	55.4 (4.1)	-2.49 (2.67)	2.43 (3.72)	19.4 (1.9)	58.4 (4.6)	-6.66 (7.80)	2.85 (3.04)	18.8 (1.9)	57.2 (4.5)	-2.85 (6.37)	2.32 (3.51)
4	17.3 (1.5)	55.8 (4.5)	-4.02 (5.60)	2.10 (3.43)	16.6 (1.7)	59.5 (4.3)	-6.70 (7.79)	2.91 (3.05)	17.5 (1.6)	58.0 (4.0)	-2.85 (6.02)	2.09 (3.43)
5	17.0 (2.4)	59.2 (2.8)	-5.30 (7.80)	1.81 (3.03)	15.3 (2.9)	60.9 (3.8)	-6.27 (8.80)	2.45 (2.97)	16.8 (2.8)	59.6 (3.4)	-3.68 (7.85)	1.85 (3.11)
6	19.8 (3.1)	57.3 (7.6)	-7.03 (9.06)	2.28 (3.23)	19.4 (4.0)	61.0 (7.2)	-5.55 (9.81)	2.07 (3.06)	20.2 (3.3)	57.7 (6.6)	-6.14 (9.95)	2.11 (3.14)
7	22.2 (2.1)	51.7 (8.4)	-11.8 (10.6)	3.98 (3.76)	22.8 (2.4)	55.4 (7.6)	-12.5 (13.9)	3.90 (3.83)	22.9 (2.0)	52.8 (7.7)	-12.3 (12.0)	3.92 (3.62)
8	22.9 (2.1)	50.8 (7.5)	-14.2 (12.10)	4.87 (4.30)	24.4 (0.9)	53.4 (7.0)	-17.1 (15.8)	5.50 (4.69)	24.2 (1.8)	52.1 (6.7)	-17.3 (16.1)	4.81 (3.97)
9	22.1 (1.8)	51.3 (8.5)	-11.6 (9.86)	4.06 (3.75)	24.3 (0.7)	55.1 (7.7)	-14.4 (13.6)	4.49 (3.66)	23.9 (1.4)	52.7 (7.7)	-13.7 (11.7)	4.27 (3.59)
10	22.6 (1.7)	56.7 (2.6)	-13.9 (10.3)	4.73 (3.62)	24.5 (0.6)	61.4 (3.0)	-13.7 (12.1)	4.51 (3.43)	24.2 (1.3)	60.1 (2.6)	-16.7 (12.0)	5.13 (3.46)
11	23.9 (1.7)	55.0 (4.6)	-18.2 (9.51)	7.25 (3.61)	24.8 (0.8)	58.7 (4.4)	-21.8 (14.9)	7.00 (3.98)	24.8 (1.1)	58.5 (5.9)	-20.5 (11.2)	7.29 (3.29)
12	23.8 (1.4)	43.3 (7.3)	-16.9 (8.40)	6.64 (3.12)	24.8 (0.6)	48.2 (7.7)	-17.6 (12.5)	6.52 (4.04)	24.4 (1.1)	45.5 (8.1)	-16.6 (9.52)	6.73 (3.66)
13	23.0 (1.8)	43.5 (6.1)	-13.0 (9.31)	5.08 (3.70)	24.5 (0.7)	49.2 (6.8)	-14.9 (14.3)	4.87 (3.86)	24.3 (1.5)	46.4 (7.0)	-13.6 (11.3)	4.60 (3.61)
14	22.1 (1.3)	55.1 (4.0)	-11.2 (9.90)	3.67 (3.55)	24.2 (0.6)	62.3 (4.1)	-7.79 (8.36)	2.85 (3.02)	23.9 (1.2)	61.4 (5.4)	-10.0 (11.4)	3.17 (3.49)
15	21.6 (1.4)	53.7 (4.2)	-10.4 (9.15)	3.14 (3.52)	22.9 (1.2)	60.1 (2.3)	-8.14 (8.29)	3.04 (3.07)	23.8 (1.3)	59.8 (3.7)	-9.63 (10.9)	2.90 (3.41)
16	20.7 (1.5)	55.3 (3.1)	-8.12 (8.64)	2.43 (3.32)	21.1 (1.5)	62.7 (2.0)	-7.44 (8.10)	2.85 (2.99)	22.4 (1.8)	62.0 (3.7)	-7.34 (10.3)	2.32 (3.21)
17	19.6 (1.9)	54.7 (5.0)	-9.16 (9.62)	2.94 (3.53)	19.1 (2.4)	60.4 (5.8)	-8.38 (8.73)	3.09 (3.11)	20.7 (1.8)	60.5 (5.6)	-8.63 (11.0)	2.70 (3.43)
18	20.9 (1.2)	58.4 (5.2)	-14.2 (10.2)	4.72 (3.49)	21.0 (1.7)	63.2 (4.1)	-11.4 (10.1)	4.12 (3.29)	21.7 (1.1)	65.0 (4.8)	-12.6 (11.6)	4.11 (3.51)
19	21.9 (1.2)	54.1 (8.3)	-19.7 (8.18)	6.60 (2.65)	22.5 (0.6)	57.7 (8.0)	-21.5 (12.9)	6.43 (3.05)	22.7 (1.0)	58.2 (10.2)	-19.2 (9.30)	6.35 (2.71)
20												
21	19.9 (1.8)	52.2 (7.9)	-10.9 (9.92)		18.4 (2.9)	56.7 (8.3)	-12.7 (10.3)		21.5 (1.7)	57.2 (8.1)	-10.9 (11.5)	
22	20.6 (1.4)	49.5 (4.8)	-10.5 (8.93)		20.3 (1.3)	54.5 (5.3)	-12.7 (9.77)		21.9 (1.2)	55.2 (5.4)	-11.2 (11.6)	
23	19.9 (1.6)	53.2 (4.1)	-7.31 (8.48)	2.77 (3.50)	18.5 (2.1)	58.5 (3.6)	-9.49 (9.50)	3.53 (3.43)	21.3 (1.7)	59.8 (4.3)	-8.08 (10.9)	2.81 (3.48)
24	19.6 (1.7)	54.3 (4.1)	-7.65 (8.40)	2.82 (3.52)	18.6 (1.8)	57.6 (4.9)	-9.48 (9.66)	3.47 (3.56)	21.4 (1.7)	60.3 (4.3)	-8.95 (10.9)	2.90 (3.47)
25	20.2 (1.5)	53.1 (6.3)	-13.8 (13.2)	3.67 (3.47)	19.5 (2.5)	58.1 (5.5)	-11.0 (10.0)	3.92 (3.39)	21.8 (1.7)	58.7 (7.5)	-10.1 (11.3)	3.25 (3.54)
26	20.8 (1.3)	54.3 (2.5)	-20.0 (13.1)	4.88 (3.17)	20.7 (2.1)	58.7 (2.6)	-15.0 (10.3)	5.15 (3.28)	22.5 (1.4)	58.9 (3.1)	-14.2 (11.7)	4.47 (3.52)
27	22.5 (1.8)	53.8 (3.2)	-18.9 (9.77)	7.84 (3.44)	23.0 (1.2)	56.5 (3.1)	-18.5 (12.2)	7.94 (4.00)	23.6 (1.3)	57.4 (3.6)	-18.1 (9.90)	7.45 (3.62)
28	21.5 (0.9)	63.1 (4.5)	-16.5 (7.88)	6.68 (2.75)	22.2 (0.9)	65.1 (4.3)	-11.1 (6.53)	6.05 (3.32)	23.0 (1.0)	67.7 (5.0)	-14.0 (8.60)	5.55 (3.34)
Avg	21.1	53.9	-11.2	4.17	21.3	58.2	-11.7	4.22	22.1	57.7	-11.0	3.93
n	27	27	27	25	27	27	27	25	27	27	27	25
SD	1.7	4.0	5.11	1.69	2.6	3.8	4.57	1.55	2.0	4.7	5.06	1.66
Min	17.0	43.3	-20.0	1.81	15.3	48.2	-21.8	2.07	16.8	45.5	-20.5	1.85
Max	23.9	63.1	-2.49	7.84	24.8	65.1	-5.55	7.94	24.8	67.7	-2.85	7.45

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for March, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	19.9 (1.1)	63.7 (3.7)	-12.2 (10.1)	3.01 (3.39)	19.2 (0.8)	65.2 (3.0)	-9.38 (7.21)	4.23 (3.39)	22.0 (1.4)	67.8 (4.4)	-9.96 (10.0)	2.72 (3.47)
2	19.8 (1.3)	63.2 (2.6)	-9.4 (10.4)	2.76 (3.41)	17.0 (1.6)	63.4 (2.4)	-8.35 (7.92)	4.32 (3.52)	21.0 (1.6)	66.4 (3.5)	-5.82 (9.96)	2.33 (3.39)
3	19.1 (1.7)	59.5 (2.2)	-9.4 (10.3)	2.65 (3.43)	15.2 (2.5)	59.7 (2.0)	-8.44 (8.24)	4.08 (3.70)	20.3 (2.1)	64.3 (2.7)	-6.87 (9.75)	2.37 (3.41)
4	19.6 (1.8)	57.1 (5.7)	-11.3 (11.2)	3.42 (3.61)	16.6 (4.3)	59.8 (4.4)	-8.59 (8.49)	3.91 (3.67)	21.0 (2.3)	63.0 (5.4)	-8.75 (10.6)	3.00 (3.56)
5	20.0 (2.0)	50.7 (10.0)	-14.5 (11.1)	4.64 (3.67)	18.5 (3.5)	53.9 (8.0)	-11.2 (8.08)	5.29 (3.62)	21.3 (2.0)	54.4 (10.7)	-11.5 (10.8)	4.13 (3.73)
6	22.5 (2.6)	50.6 (4.7)	-14.8 (8.7)	8.14 (4.47)	22.0 (2.5)	53.4 (5.1)	-16.9 (11.2)	10.1 (6.10)	23.3 (1.9)	54.6 (4.9)	-13.4 (8.73)	7.70 (4.53)
7	23.5 (2.6)	52.9 (4.3)	-20.0 (9.1)	11.4 (5.41)	23.7 (1.8)	54.5 (4.7)	-13.1 (11.3)	15.1 (10.0)	24.3 (2.1)	55.7 (4.4)	-15.8 (8.57)	10.3 (5.42)
8	24.2 (2.6)	51.4 (7.1)	-21.4 (7.3)	13.1 (5.53)	24.1 (2.2)	52.7 (7.5)	-9.37 (11.7)	18.6 (10.6)	24.8 (2.1)	53.8 (7.5)	-16.5 (7.70)	12.5 (6.22)
9	24.6 (3.0)	46.0 (11.2)	-15.9 (9.1)	15.7 (10.0)	24.7 (2.6)	48.2 (10.9)	-17.4 (12.7)	17.0 (9.86)	25.2 (2.6)	48.4 (11.9)	-16.4 (7.81)	14.3 (8.47)
10	22.0 (1.9)	51.8 (4.4)	-10.9 (9.2)	9.35 (3.65)	22.7 (1.2)	53.5 (4.5)	-18.4 (8.92)	10.2 (4.23)	23.2 (1.6)	55.3 (4.5)	-13.2 (7.00)	8.69 (3.51)
11	24.2 (2.7)	55.9 (8.0)	-21.1 (6.8)	13.8 (7.26)	24.2 (2.4)	56.9 (7.4)	-22.0 (9.09)	16.4 (9.10)	25.0 (2.4)	58.6 (8.3)	-17.2 (8.93)	12.8 (6.61)
12	22.2 (1.0)	43.0 (3.3)	-18.9 (7.1)	8.90 (2.11)	22.1 (0.9)	46.5 (2.7)	-20.8 (9.62)	8.77 (2.59)	23.3 (1.0)	46.9 (3.6)	-14.7 (6.37)	7.17 (2.95)
13	20.1 (1.1)	55.9 (8.5)	-12.0 (6.9)	5.18 (3.73)	20.6 (1.0)	60.0 (7.9)	-10.2 (7.12)	4.79 (3.48)	21.9 (1.7)	61.1 (9.3)	-10.4 (8.81)	4.15 (3.85)
14	20.2 (1.2)	62.1 (4.0)	-13.0 (7.5)	5.58 (3.49)	20.7 (1.1)	65.6 (4.1)	-11.6 (8.01)	4.95 (3.34)	22.3 (1.6)	69.2 (4.7)	-10.2 (9.20)	4.14 (3.80)
15	20.7 (0.8)	64.0 (4.2)	-15.4 (6.5)	6.86 (2.71)	21.2 (0.9)	66.5 (4.2)	-14.6 (8.16)	6.04 (3.16)	22.5 (1.3)	70.7 (4.5)	-12.2 (8.96)	5.31 (3.59)
16	20.8 (0.6)	64.3 (3.8)	-16.3 (5.0)	7.44 (2.06)	21.3 (0.8)	66.7 (4.0)	-16.2 (7.24)	6.62 (2.77)	22.7 (1.2)	71.0 (4.0)	-13.2 (8.85)	5.66 (3.45)
17	20.7 (0.9)	61.2 (3.6)	-15.9 (4.8)	7.68 (1.91)	20.9 (0.9)	63.3 (3.0)	-14.5 (7.11)	6.83 (2.85)	22.1 (1.2)	67.2 (3.4)	-13.3 (8.48)	6.04 (3.29)
18	20.9 (1.9)	54.5 (4.5)	-16.6 (8.0)	8.07 (3.59)	20.9 (1.5)	56.4 (4.9)	-16.8 (9.61)	8.02 (4.53)	22.4 (1.8)	59.4 (6.9)	-15.5 (9.70)	7.26 (4.17)
19	21.5 (2.5)	51.1 (7.5)	-17.8 (8.5)	10.9 (6.28)	21.3 (2.0)	53.1 (7.5)	-19.3 (9.64)	13.4 (9.17)	22.7 (2.1)	55.7 (8.8)	-14.3 (8.77)	9.87 (5.67)
20	19.3 (1.2)	51.0 (6.4)	-19.4 (5.7)	9.47 (1.76)	19.3 (1.1)	54.0 (6.7)	-20.0 (8.44)	9.45 (3.22)	20.9 (1.4)	56.1 (6.7)	-11.8 (9.09)	7.26 (3.83)
21	18.5 (1.5)	49.9 (5.0)	-16.1 (7.6)	8.19 (3.18)	19.0 (1.0)	54.1 (4.9)	-17.3 (10.8)	7.56 (3.69)	20.4 (1.6)	56.3 (6.2)	-11.1 (7.50)	5.96 (3.69)
22	19.0 (2.2)	48.9 (7.3)	-16.4 (8.3)	8.66 (4.03)	18.8 (1.8)	52.2 (8.0)	-17.4 (9.47)	9.06 (4.80)	20.6 (2.1)	54.7 (8.8)	-14.2 (10.0)	7.31 (4.52)
23	19.6 (2.4)	49.7 (5.8)	-14.9 (9.3)	10.3 (4.54)	19.7 (1.5)	51.7 (6.3)	-16.7 (11.0)	11.9 (6.95)	20.8 (1.9)	54.3 (6.9)	-12.0 (8.54)	9.45 (5.21)
24	18.4 (1.5)	47.7 (7.3)	-9.3 (7.9)	8.71 (3.92)	19.2 (1.1)	49.7 (5.9)	-12.6 (9.62)	8.59 (3.92)	20.2 (1.6)	51.9 (6.1)	-13.2 (8.96)	7.99 (3.76)
25	18.9 (1.9)	51.5 (4.1)	-11.0 (7.3)	8.29 (3.00)	19.6 (1.1)	54.0 (4.3)	-14.7 (9.50)	7.84 (3.07)	20.9 (1.7)	57.4 (5.6)	-18.4 (8.27)	7.14 (2.60)
26	21.5 (1.5)	65.3 (4.1)	-20.5 (4.1)	12.9 (3.22)	21.0 (1.0)	65.4 (3.6)	-22.7 (5.67)	12.6 (3.44)	22.4 (0.9)	69.1 (3.8)	-22.5 (2.81)	10.4 (2.42)
27	22.7 (0.8)	70.9 (2.0)	-22.4 (2.0)	15.5 (1.87)	21.3 (0.6)	69.6 (3.0)	-25.4 (4.30)	15.4 (3.87)	22.9 (0.7)	72.6 (3.1)	-21.9 (1.57)	11.9 (2.04)
28	23.5 (1.1)	71.3 (4.1)	-22.4 (1.5)	17.1 (3.10)	22.4 (1.3)	71.6 (4.6)	-25.3 (4.28)	20.8 (6.38)	23.7 (1.1)	73.7 (3.8)	-21.0 (1.34)	14.7 (3.79)
29	23.9 (1.8)	54.5 (13.1)	-21.8 (3.5)	19.4 (6.74)	22.7 (2.0)	55.1 (11.3)	-23.5 (5.00)	20.6 (8.78)	24.1 (1.8)	57.7 (12.2)	-19.7 (3.24)	15.5 (5.60)
30	20.8 (1.6)	47.3 (6.4)	-15.8 (7.6)	10.8 (2.90)	20.5 (1.2)	49.1 (6.0)	-18.4 (8.38)	10.3 (4.73)	21.7 (1.5)	51.3 (6.4)	-16.7 (6.69)	9.05 (3.32)
31	20.7 (2.3)	48.8 (8.7)	-18.6 (6.2)	11.2 (4.33)	20.9 (1.6)	50.0 (9.2)	-20.0 (9.39)	12.5 (7.59)	22.2 (2.0)	52.9 (9.6)	-17.4 (7.06)	9.81 (4.46)
Avg	21.1	55.4	-16.0	9.32	20.7	57.3	-16.2	10.2	22.3	59.7	-14.2	7.96
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.8	7.2	3.97	4.16	2.2	6.7	4.94	4.89	1.4	7.4	4.02	3.62
Min	18.4	43.0	-22.4	2.65	15.2	46.5	-25.4	3.91	20.2	46.9	-22.5	2.33
Max	24.6	71.3	-9.32	19.4	24.7	71.6	-8.35	20.8	25.2	73.7	-5.82	15.5

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for April, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	21.2 (1.2)	62.9 (4.0)	-20.9 (3.48)	11.5 (2.61)	21.0 (0.9)	63.0 (3.9)	-22.4 (6.20)	12.4 (3.16)	22.6 (0.9)	67.0 (4.3)	-20.0 (3.04)	10.5 (2.09)
2	21.3 (0.8)	68.4 (3.1)	-21.2 (2.84)	11.0 (1.67)	20.8 (0.6)	68.5 (3.7)	-22.9 (6.01)	13.3 (2.74)	22.6 (0.6)	71.8 (3.1)	-21.2 (2.99)	11.0 (1.74)
3	25.0 (2.4)	54.8 (10.9)	-17.1 (7.35)	17.9 (6.45)	23.1 (1.6)	55.3 (10.2)	-26.0 (3.43)	22.0 (7.59)	24.5 (1.6)	57.6 (10.8)	-19.7 (4.80)	17.9 (5.28)
4	21.7 (2.2)	44.1 (8.5)	-18.4 (6.73)	12.9 (5.62)	21.5 (1.6)	45.9 (8.0)	-18.0 (8.23)	15.2 (9.08)	22.3 (1.8)	48.0 (9.7)	-16.1 (7.55)	12.5 (4.43)
5	22.8 (3.4)	47.7 (10.9)	-19.6 (4.88)	16.7 (8.83)	22.8 (3.1)	48.8 (10.0)	-19.7 (7.91)	18.7 (10.3)	23.5 (3.0)	49.7 (12.5)	-18.4 (5.68)	15.9 (9.54)
6	23.7 (2.0)	51.6 (15.8)	-18.9 (7.32)	16.8 (7.42)	22.8 (2.0)	53.5 (14.1)	-21.4 (7.50)	20.2 (8.62)	23.9 (1.8)	54.4 (15.7)	-18.2 (6.19)	15.5 (6.00)
7	19.4 (1.3)	46.8 (4.3)	-9.36 (4.99)	7.95 (2.71)	19.5 (0.9)	50.1 (4.1)	-9.06 (4.61)	6.96 (3.10)	19.7 (1.2)	50.0 (5.2)	-9.27 (4.34)	7.56 (2.83)
8	19.7 (1.9)	46.5 (6.2)	-13.7 (8.74)	8.83 (3.40)	19.3 (2.0)	49.0 (5.5)	-13.0 (8.61)	7.88 (3.68)	20.1 (1.9)	49.5 (7.0)	-11.8 (7.27)	8.14 (3.79)
9	21.7 (1.7)	44.3 (9.1)	-17.4 (7.22)	11.9 (3.50)	21.0 (1.6)	45.8 (8.5)	-18.1 (8.99)	12.7 (6.33)	21.8 (1.9)	47.2 (9.8)	-16.3 (6.05)	11.3 (3.27)
10	24.0 (3.0)	51.3 (11.7)	-18.1 (6.63)	18.7 (8.88)	23.1 (2.6)	52.4 (10.0)	-22.2 (7.17)	19.6 (9.70)	23.7 (2.5)	53.8 (12.4)	-17.6 (4.97)	16.9 (8.68)
11	22.6 (1.5)	56.7 (8.2)	-17.5 (6.73)	14.8 (4.40)	21.7 (1.2)	57.1 (7.0)	-21.9 (5.99)	16.5 (7.28)	22.8 (1.6)	59.4 (8.1)	-14.7 (6.86)	12.20 (3.52)
12	19.7 (1.8)	48.4 (6.1)	-12.7 (8.93)	10.5 (3.61)	20.4 (1.1)	50.4 (6.0)	-13.6 (8.11)	9.55 (5.02)	20.9 (1.8)	51.0 (7.3)	-13.0 (7.85)	8.84 (4.07)
13	19.7 (1.7)	57.9 (5.0)	-15.2 (9.55)	9.98 (3.38)	20.3 (1.0)	58.6 (5.0)	-16.5 (8.56)	9.45 (3.53)	20.9 (1.3)	60.8 (5.8)	-15.9 (8.44)	9.55 (3.28)
14	21.9 (0.4)	67.8 (3.9)	-23.8 (0.99)	13.3 (1.74)	21.5 (0.5)	67.6 (3.7)	-22.0 (3.22)	13.8 (2.18)	22.5 (0.6)	71.3 (4.1)	-22.4 (1.72)	12.3 (0.87)
15	21.1 (1.1)	60.0 (5.2)	-23.5 (3.98)	12.6 (1.86)	21.0 (0.6)	59.8 (4.4)	-18.0 (6.79)	12.2 (3.30)	21.8 (1.0)	63.4 (5.2)	-19.3 (6.10)	10.6 (2.15)
16	20.1 (1.5)	45.3 (7.2)	-17.4 (8.24)	11.0 (2.44)	20.4 (1.2)	47.2 (6.2)	-13.9 (7.51)	10.6 (3.79)	21.0 (1.6)	48.9 (7.0)	-15.4 (7.53)	8.92 (3.30)
17	19.8 (2.5)	44.4 (7.9)	-13.9 (9.28)	9.54 (4.89)	19.8 (2.0)	45.6 (6.6)	-12.4 (9.83)	9.46 (6.98)	21.0 (2.4)	48.2 (7.1)	-15.6 (7.97)	9.78 (4.72)
18	21.6 (3.4)	43.5 (10.6)	-16.5 (8.58)	14.5 (9.50)	20.9 (3.5)	44.6 (9.3)	-16.6 (8.57)	16.2 (11.3)	22.6 (3.1)	46.6 (10.5)	-17.5 (6.87)	14.6 (8.61)
19	21.9 (2.6)	52.9 (4.8)	-18.7 (7.20)	14.1 (6.27)	21.3 (2.2)	53.1 (4.0)	-17.7 (7.99)	16.7 (10.6)	22.6 (2.4)	56.6 (4.9)	-19.0 (4.78)	14.3 (5.83)
20	23.3 (2.2)	62.0 (6.1)	-16.5 (7.00)	17.6 (7.59)	22.5 (2.2)	61.8 (5.4)	-14.9 (7.26)	20.1 (9.78)	23.7 (2.0)	65.0 (6.6)	-15.0 (6.41)	17.8 (7.49)
21	22.7 (1.8)	52.9 (12.1)	-12.1 (5.86)	15.6 (5.77)	21.5 (1.9)	52.6 (10.8)	-9.21 (4.08)	18.8 (10.0)	23.0 (1.7)	55.7 (11.7)	-10.8 (1.69)	14.8 (5.79)
22	20.7 (1.6)	47.2 (11.3)	-9.62 (6.33)	10.2 (3.23)	19.4 (1.5)	47.0 (11.0)	-6.66 (4.52)	10.0 (4.43)	20.4 (1.7)	48.7 (12.1)	-9.29 (4.89)	9.45 (3.82)
23	21.8 (3.6)	44.4 (11.5)	-9.95 (7.04)	15.7 (10.9)	20.4 (4.3)	45.7 (10.2)	-8.37 (5.20)	17.5 (12.9)	22.1 (3.4)	46.5 (11.4)	-10.1 (4.96)	14.8 (10.8)
24	23.9 (4.3)	56.9 (8.3)	-11.6 (5.43)	20.6 (11.3)	23.5 (4.4)	57.9 (8.6)	-7.17 (4.49)	23.7 (13.7)	24.2 (4.2)	59.6 (9.2)	-11.5 (4.36)	20.0 (11.7)
25	25.7 (3.4)	59.6 (10.2)	-15.4 (1.32)	23.5 (9.35)	25.2 (3.6)	61.2 (10.2)	-7.60 (6.51)	27.9 (8.45)	25.8 (3.3)	62.3 (10.9)	-11.9 (2.93)	23.2 (9.39)
26	25.1 (3.8)	56.1 (12.9)	-16.3 (2.11)	22.7 (9.73)	24.2 (4.3)	56.6 (11.7)	-11.8 (4.68)	24.7 (9.61)	25.3 (3.7)	58.2 (13.4)	-12.3 (2.75)	22.2 (10.0)
27	24.2 (3.9)	53.0 (12.0)	-11.1 (4.14)	20.3 (11.4)	23.3 (4.4)	53.4 (10.4)	-10.4 (5.69)	21.5 (11.4)	24.6 (3.8)	55.0 (12.4)	-11.6 (3.62)	19.6 (11.3)
28	23.5 (3.5)	54.3 (9.0)	-11.0 (3.41)	20.1 (11.0)	22.7 (3.8)	54.4 (7.6)	-11.9 (5.12)	21.1 (11.7)	23.8 (3.3)	57.0 (9.6)	-11.8 (2.44)	19.2 (10.8)
29	23.6 (3.0)	55.5 (10.3)	-11.5 (3.38)	20.0 (10.5)	23.0 (3.2)	55.3 (8.8)	-16.2 (3.97)	20.8 (10.6)	23.9 (2.9)	57.9 (10.8)	-11.5 (2.46)	19.1 (10.2)
30	22.4 (2.1)	62.9 (4.6)	-11.2 (3.75)	16.0 (6.43)	21.8 (2.0)	62.3 (3.8)	-15.1 (3.81)	18.1 (10.0)	23.0 (1.9)	65.3 (4.7)	-10.8 (2.00)	14.9 (6.52)
Avg	22.2	53.3	-15.7	14.9	21.7	54.2	-15.5	16.3	22.7	56.2	-14.9	14.1
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.7	7.1	4.01	4.21	1.5	6.6	5.28	5.33	1.5	7.2	3.71	4.30
Min	19.4	43.5	-23.8	7.95	19.3	44.6	-26.0	6.96	19.7	46.5	-22.4	7.56
Max	25.7	68.4	-9.36	23.5	25.2	68.5	-6.66	27.9	25.8	71.8	-9.27	23.2

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for May, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	24.4 (3.0)	61.2 (9.6)	-12.2 (1.47)	22.7 (9.03)	23.8 (3.2)	61.5 (8.4)	-16.9 (3.87)	24.1 (8.87)	24.7 (2.8)	63.7 (9.8)	-11.9 (2.56)	21.5 (9.08)
2	25.0 (2.4)	59.4 (7.7)	-12.2 (1.56)	22.9 (8.68)	24.2 (2.7)	60.3 (7.1)	-17.1 (2.93)	26.5 (7.27)	25.3 (2.2)	61.9 (7.8)	-10.8 (2.80)	22.3 (8.40)
3	25.8 (3.0)	58.9 (9.8)	-12.4 (1.66)	24.8 (8.88)	25.1 (3.2)	59.8 (9.1)	-17.7 (3.16)	27.2 (7.11)	26.0 (2.7)	61.6 (10.0)	-11.0 (3.34)	24.1 (8.86)
4	25.4 (2.6)	61.2 (8.9)	-12.4 (1.24)	24.3 (8.76)	24.6 (3.0)	62.6 (9.2)	-15.6 (3.71)	28.1 (6.64)	25.7 (2.4)	65.1 (9.7)	-11.1 (2.49)	24.2 (8.44)
5	23.0 (1.4)	71.9 (2.4)	-12.7 (2.41)	17.4 (4.60)	22.1 (1.6)	71.0 (3.2)	-15.5 (3.60)	21.3 (8.29)	23.4 (1.2)	76.3 (2.4)	-10.5 (2.11)	18.6 (5.95)
6	25.2 (2.2)	66.1 (8.2)	-11.7 (1.37)	24.5 (7.77)	24.6 (2.4)	66.6 (7.9)	-16.5 (3.56)	28.3 (5.86)	25.3 (2.2)	69.6 (9.0)	-11.2 (3.15)	25.6 (7.53)
7	23.5 (2.1)	72.0 (5.6)	-10.4 (4.71)	16.1 (8.28)	23.5 (2.1)	70.1 (4.5)	-17.6 (3.19)	22.8 (7.20)	24.0 (1.9)	74.5 (4.9)	-9.26 (2.76)	21.8 (6.77)
8	24.2 (3.8)	71.0 (8.9)	-8.25 (4.13)	5.24 (2.52)	24.4 (3.0)	67.4 (5.9)	-17.0 (3.44)	26.8 (8.28)	24.9 (2.8)	72.3 (6.8)	-11.3 (3.61)	24.8 (8.87)
9	26.8 (3.5)	61.5 (13.2)	-11.2 (3.33)	11.2 (11.70)	26.7 (3.7)	60.8 (11.3)	-16.1 (3.60)	30.3 (4.98)	27.2 (3.4)	63.4 (12.7)	-11.3 (4.00)	28.2 (7.29)
10	24.0 (2.8)	58.4 (11.4)	-7.34 (0.68)	4.53 (0.04)	23.1 (2.3)	56.3 (8.5)	-16.7 (3.66)	23.5 (8.68)	23.6 (2.2)	60.1 (10.8)	-10.4 (3.43)	21.7 (8.56)
11	16.7 (3.1)	71.5 (5.3)	-11.7 (3.98)	13.0 (9.64)	19.9 (0.6)	61.8 (3.8)	-12.8 (4.22)	11.5 (3.44)	20.2 (1.2)	68.0 (4.7)	-11.1 (3.06)	10.8 (2.91)
12	15.8 (5.7)	66.0 (14.9)	-13.1 (2.97)	16.5 (2.50)	20.7 (2.2)	54.0 (5.9)	-13.0 (6.31)	15.5 (11.1)	20.8 (2.8)	58.9 (8.9)	-9.20 (5.03)	13.0 (7.98)
13	18.0 (4.4)	61.6 (14.5)	-12.5 (1.24)	12.6 (4.08)	21.0 (2.3)	54.5 (7.9)	-10.7 (6.86)	16.8 (11.8)	21.5 (2.5)	56.6 (8.9)	-9.71 (3.91)	15.2 (7.91)
14	19.5 (3.0)	78.4 (2.9)	-11.6 (0.77)	8.88 (0.10)	20.2 (2.5)	76.5 (2.4)	-10.9 (5.89)	13.5 (7.67)	22.2 (1.9)	74.6 (4.2)	-8.87 (3.16)	16.2 (5.99)
15	21.7 (2.7)	77.5 (7.2)	-11.3 (0.71)	8.82 (0.11)	21.9 (2.5)	74.9 (4.8)	-13.0 (4.70)	18.3 (11.4)	23.5 (2.1)	75.4 (5.4)	-13.0 (3.67)	21.5 (7.76)
16	22.7 (2.1)	76.2 (6.5)	-11.1 (1.59)	10.7 (7.47)	22.8 (2.1)	75.1 (4.7)	-11.4 (6.78)	14.8 (11.9)	24.2 (1.6)	76.0 (5.2)	-15.5 (1.94)	22.3 (7.34)
17	19.9 (4.4)	72.0 (1.0)	-11.3 (3.06)	7.44 (4.30)	20.1 (4.0)	74.2 (4.8)	-5.91 (5.39)	6.14 (1.93)	22.4 (2.4)	73.2 (4.9)	-14.5 (3.02)	16.4 (8.05)
18	13.6 (1.7)	70.2 (0.2)	-4.74 (6.67)	3.63 (6.05)	13.5 (1.6)	68.6 (7.3)	-14.5 (2.53)	8.87 (0.56)	18.6 (2.1)	62.6 (5.2)	-10.1 (7.08)	7.40 (3.38)
19	14.9 (2.5)	70.2 (0.6)	-1.17 (2.56)	0.00 (0.00)	14.8 (3.4)	58.9 (9.2)	-11.1 (5.25)	7.09 (3.59)	15.6 (3.2)	59.9 (9.9)	-6.43 (6.63)	5.70 (4.36)
20	17.8 (4.3)	73.0 (1.7)	0.11 (1.56)	0.00 (0.00)	18.2 (5.2)	68.3 (6.0)	-13.9 (2.58)	13.7 (10.0)	18.7 (4.6)	70.6 (6.2)	-8.65 (5.06)	7.19 (3.72)
21	21.4 (3.5)	74.1 (0.9)	1.34 (1.20)	0.00 (0.00)	20.8 (3.9)	65.7 (10.3)	-13.5 (0.66)	8.70 (0.09)	21.0 (3.8)	67.8 (11.2)	-10.6 (1.64)	8.94 (0.14)
22	23.1 (3.9)	66.3 (7.4)	-4.06 (5.96)	3.83 (5.90)	21.8 (4.0)	68.9 (8.6)	-13.5 (0.64)	8.65 (0.08)	22.0 (4.0)	71.3 (9.6)	-10.7 (0.65)	8.89 (0.10)
23	23.1 (3.9)	69.0 (9.5)	-8.59 (0.94)	4.51 (0.06)	22.2 (3.9)	69.9 (8.2)	-13.5 (0.64)	8.63 (0.08)	22.4 (3.9)	72.5 (9.1)	-10.6 (0.75)	8.88 (0.08)
24	24.1 (3.3)	69.9 (9.1)	-8.55 (1.43)	4.62 (0.68)	23.4 (3.1)				23.7 (3.0)			
25	24.3 (3.2)	70.1 (9.2)	-8.84 (4.66)	8.67 (5.17)	23.8 (3.1)				24.1 (3.0)			
26	24.3 (1.2)	74.5 (4.5)	-8.96 (5.71)	14.7 (9.78)	22.4 (0.9)				23.2 (1.7)			
27	25.9 (3.0)	63.7 (11.8)	-11.6 (6.22)	12.7 (7.08)	24.7 (3.1)				24.1 (3.2)			
28	25.7 (2.2)	70.5 (5.1)	-14.9 (4.84)	10.9 (5.05)	25.1 (2.4)				24.8 (2.2)			
29	26.1 (2.7)	69.5 (6.9)	-13.3 (4.87)	12.6 (7.38)	25.3 (2.8)				24.9 (2.8)			
30	25.3 (2.5)	61.7 (9.3)	-12.2 (6.51)	9.96 (5.68)	24.4 (2.9)				24.4 (2.8)			
31	26.6 (3.4)	59.1 (11.5)	-12.5 (6.07)	15.2 (11.3)	25.0 (4.7)	62.7 (13.6)	-1.45 (0.33)	4.73 (0.07)	25.1 (4.3)	65.6 (14.7)	1.20 (0.38)	4.83 (0.07)
Avg	22.5	67.9	-9.73	11.4	22.4	65.4	-13.6	17.3	23.1	67.6	-10.3	16.7
n	31	31	31	31	31	24	24	24	31	24	24	24
SD	3.6	5.8	3.99	7.23	2.9	6.4	3.73	8.08	2.4	6.0	2.98	7.13
Min	13.6	58.4	-14.9	0.00	13.5	54.0	-17.7	4.73	15.6	56.6	-15.5	4.83
Max	26.8	78.4	1.34	24.8	26.7	76.5	-1.45	30.3	27.2	76.3	1.20	28.2

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for June, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	26.0 (2.9)	66.9 (7.8)	-13.2 (4.76)	13.8 (9.78)	24.8 (3.8)	71.6 (9.4)	-2.41 (5.59)	12.5 (11.0)	24.7 (3.5)	72.7 (9.9)	1.36 (0.79)	4.86 (0.07)
2	27.0 (3.2)	64.3 (10.2)	-14.8 (4.37)	16.7 (10.4)	26.4 (3.2)	66.7 (11.6)	-11.0 (8.32)	19.0 (12.2)	26.0 (3.6)	69.3 (12.9)	1.44 (0.31)	4.85 (0.06)
3	27.0 (2.9)	63.0 (11.2)	-14.8 (1.07)	16.8 (9.78)	26.4 (2.8)	65.7 (12.1)	-15.1 (2.74)	19.5 (10.7)	26.3 (3.1)	68.1 (13.7)	1.45 (0.41)	4.84 (0.06)
4	26.2 (2.4)	66.4 (9.3)	-15.2 (2.37)	13.7 (7.08)	25.6 (2.3)	69.0 (10.4)	-13.8 (4.46)	16.8 (10.7)	25.4 (2.7)	71.3 (11.8)	-3.76 (5.40)	4.63 (0.25)
5	25.9 (2.1)	70.5 (6.4)	-13.5 (4.07)	12.7 (5.96)	25.0 (2.0)	72.0 (7.5)	-14.1 (2.81)	16.0 (9.85)	24.7 (2.3)	75.3 (7.4)	-9.97 (6.76)	13.9 (13.1)
6	23.8 (0.7)	72.3 (1.5)	-14.2 (5.49)	7.13 (2.53)	23.0 (0.7)	72.3 (1.7)	-11.8 (4.08)	7.94 (2.47)	23.5 (0.8)	74.1 (1.5)	-6.90 (8.07)	6.46 (5.99)
7	25.6 (2.0)	70.8 (3.9)	-15.1 (4.03)	10.5 (4.20)	24.5 (1.9)	71.2 (3.8)	-15.1 (2.86)	14.4 (7.50)	25.5 (1.9)	72.2 (4.3)	-9.31 (6.54)	10.0 (5.48)
8	26.7 (2.7)	68.5 (7.2)	-15.3 (3.45)	15.5 (8.79)	25.8 (2.8)	68.5 (7.8)	-14.8 (2.43)	20.0 (11.1)	26.8 (2.6)	69.8 (7.5)	-8.62 (5.15)	13.8 (8.28)
9	26.7 (2.3)	70.8 (5.9)	-14.7 (1.41)	15.1 (8.13)	25.8 (2.5)	70.7 (6.8)	-14.7 (2.15)	19.2 (10.7)	26.6 (2.4)	73.2 (6.7)	-10.8 (4.51)	14.3 (7.94)
10	26.0 (2.3)	68.6 (5.7)	-15.5 (3.84)	13.1 (6.90)	25.0 (2.3)	68.5 (5.8)	-14.3 (3.62)	17.7 (10.4)	26.1 (2.2)	70.7 (6.2)	-12.5 (4.69)	11.4 (5.65)
11	27.2 (2.5)	69.1 (6.2)	-14.6 (1.51)	17.1 (8.44)	26.4 (2.5)	68.7 (6.8)	-14.9 (1.59)	21.7 (10.8)	27.3 (2.3)	71.0 (6.8)	-12.2 (1.67)	15.8 (7.77)
12	27.9 (3.1)	68.7 (7.1)	-14.1 (1.95)	18.8 (10.5)	26.9 (3.4)	68.0 (7.4)	-15.3 (1.80)	21.4 (10.6)	27.7 (3.1)	71.0 (7.5)	-12.6 (2.07)	18.3 (10.2)
13	28.0 (2.9)	66.3 (8.9)	-14.6 (1.41)	19.7 (10.6)	27.1 (3.3)	66.3 (9.5)	-15.8 (2.13)	23.2 (9.94)	28.2 (2.7)	68.5 (9.3)	-12.6 (1.69)	18.8 (10.6)
14	27.3 (2.7)	67.6 (6.8)	-15.1 (1.50)	17.9 (9.84)	26.6 (2.9)	67.1 (7.0)	-15.3 (2.39)	21.2 (10.0)	27.5 (2.6)	70.0 (7.5)	-13.5 (2.04)	17.0 (9.45)
15	26.4 (2.5)	67.9 (6.5)	-15.3 (1.16)	14.6 (8.48)	25.5 (2.7)	68.0 (7.3)	-15.3 (2.58)	18.8 (10.5)	26.6 (2.4)	70.4 (7.5)	-13.1 (1.59)	13.7 (7.32)
16	24.2 (0.4)	74.1 (1.2)	-17.3 (1.25)	8.87 (1.72)	23.4 (0.3)	74.6 (1.5)	-14.1 (1.92)	10.8 (2.27)	24.6 (0.6)	76.5 (1.2)	-16.8 (1.59)	8.19 (0.48)
17	25.5 (1.7)	71.0 (3.9)	-16.1 (1.69)	11.5 (3.49)	24.7 (1.5)	71.8 (4.4)	-14.6 (2.09)	17.7 (8.61)	25.8 (1.6)	73.3 (4.2)	-14.2 (2.70)	11.1 (3.52)
18	27.2 (2.6)	71.3 (5.4)	-15.7 (1.81)	17.4 (9.07)	26.4 (2.7)	71.8 (6.4)	-15.6 (2.19)	22.6 (10.2)	27.3 (2.5)	73.2 (5.8)	-13.7 (2.38)	16.4 (8.45)
19	28.2 (2.8)	67.3 (9.6)	-15.1 (1.57)	20.6 (9.38)	27.5 (3.0)	67.0 (10.7)	-16.1 (1.59)	25.4 (8.54)	28.5 (2.5)	68.4 (9.8)	-13.3 (1.86)	19.5 (9.70)
20	29.7 (3.6)	65.5 (10.8)	-14.9 (1.54)	23.5 (9.23)	29.2 (3.8)	65.6 (11.0)	-12.6 (3.95)	29.4 (8.08)	29.9 (3.4)	66.9 (11.1)	-14.0 (1.86)	22.7 (9.16)
21	28.5 (2.4)	56.3 (9.8)	-15.3 (2.04)	21.3 (8.47)	28.0 (2.6)	56.7 (10.8)	-13.3 (5.72)	29.4 (5.39)	28.6 (2.4)	58.1 (10.7)	-13.8 (2.26)	20.6 (8.65)
22	26.8 (2.6)	59.5 (8.9)	-15.3 (3.30)	16.7 (9.73)	26.1 (3.0)	59.1 (9.2)	-14.3 (4.10)	20.7 (11.4)	27.0 (2.6)	61.1 (9.8)	-14.3 (3.67)	14.9 (8.34)
23	26.6 (2.3)	63.0 (9.5)	-15.2 (1.41)	16.1 (8.27)	25.9 (2.8)	63.2 (9.8)	-14.9 (2.86)	22.5 (10.3)	27.1 (2.4)	65.0 (9.9)	-15.2 (2.77)	15.7 (8.35)
24	27.2 (3.1)	61.9 (10.6)	-15.3 (3.18)	18.6 (10.5)	26.8 (3.3)	62.4 (10.5)	-15.6 (1.94)	23.8 (10.8)	27.6 (3.1)	63.9 (10.7)	-14.8 (3.14)	18.1 (10.2)
25	27.9 (3.1)	59.7 (13.1)	-15.5 (1.47)	19.8 (10.6)	27.3 (3.6)	60.0 (12.9)	-15.9 (1.91)	24.9 (9.85)	28.4 (3.2)	61.2 (13.2)	-14.5 (2.10)	19.5 (10.5)
26	27.1 (2.6)	71.2 (6.7)	-9.49 (8.13)	16.9 (8.49)	26.3 (2.8)	71.0 (6.5)	-10.0 (7.53)	22.6 (7.27)	27.3 (2.5)	72.6 (5.8)	-14.0 (1.66)	15.6 (8.44)
27	28.5 (2.8)	65.4 (9.2)	-10.8 (7.17)	20.6 (10.5)	27.8 (3.4)	65.6 (9.5)	-11.6 (7.27)	25.9 (8.67)	28.6 (3.1)	67.0 (8.7)	-14.2 (1.74)	20.2 (10.7)
28	27.3 (2.8)	58.1 (11.3)	-15.4 (2.19)	18.3 (10.1)	26.7 (3.3)	58.5 (10.8)	-16.2 (2.25)	21.2 (8.95)	27.7 (2.8)	59.9 (11.4)	-14.7 (2.41)	18.1 (9.60)
29	28.2 (3.0)	57.1 (12.9)	-15.6 (1.60)	20.3 (9.93)	27.9 (3.1)	57.6 (12.6)	-15.4 (3.33)	22.7 (9.09)	28.7 (2.9)	59.0 (13.1)	-14.3 (1.80)	20.1 (9.93)
30	27.8 (3.5)	51.8 (13.6)	-15.0 (2.12)	19.4 (11.0)	27.7 (3.5)	52.5 (12.3)	-14.6 (3.59)	21.4 (10.6)	28.2 (3.4)	53.6 (14.0)	-15.3 (2.69)	19.0 (10.8)
Avg	26.9	65.8	-14.7	16.4	26.2	66.4	-14.0	20.3	26.9	68.2	-11.3	14.4
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.2	5.3	1.44	3.75	1.4	5.3	2.62	4.77	1.5	5.6	5.00	5.27
Min	23.8	51.8	-17.3	7.13	23.0	52.5	-16.2	7.94	23.5	53.6	-16.8	4.63
Max	29.7	74.1	-9.49	23.5	29.2	74.6	-2.41	29.4	29.9	76.5	1.45	22.7

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for July, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	28.5 (4.0)	53.4 (13.4)	-13.4 (5.71)	20.1 (11.40)	28.2 (4.0)	54.2 (12.5)	-15.4 (3.59)	21.2 (11.1)	28.7 (3.9)	55.2 (13.6)	-15.0 (2.13)	19.7 (11.4)
2	27.7 (2.6)	62.4 (11.5)	-9.15 (7.89)	19.3 (10.30)	27.1 (2.9)	63.0 (11.0)	-15.1 (3.74)	21.2 (10.1)	27.9 (2.7)	64.8 (11.2)	-14.2 (1.72)	18.7 (10.3)
3	26.5 (2.2)	55.1 (9.6)	-15.1 (2.15)	15.1 (7.30)	26.1 (2.3)	56.6 (8.9)	-15.5 (3.28)	16.8 (7.72)	26.6 (2.3)	58.3 (10.0)	-14.0 (1.63)	15.3 (7.20)
4	26.2 (2.7)	55.0 (10.3)	-14.2 (4.40)	15.5 (9.67)	26.2 (2.6)	56.7 (9.7)	-13.7 (5.90)	15.8 (8.71)	26.3 (2.9)	58.1 (11.0)	-14.9 (3.82)	15.6 (9.76)
5	27.5 (2.3)	67.4 (6.6)	-14.8 (1.55)	19.3 (8.88)	27.3 (2.3)	67.5 (6.7)	-15.2 (1.79)	20.8 (8.01)	27.8 (2.4)	69.9 (6.7)	-13.7 (1.80)	19.4 (8.85)
6	26.1 (0.8)	74.0 (1.7)	-14.5 (4.73)	15.0 (4.68)	25.7 (1.1)	75.4 (1.9)	-14.9 (5.44)	18.6 (7.04)	26.6 (1.0)	76.1 (1.7)	-13.0 (4.22)	13.8 (2.21)
7	26.6 (2.3)	64.2 (11.1)	-15.5 (1.72)	20.1 (8.88)	26.5 (2.5)	65.2 (11.0)	-14.7 (4.40)	19.9 (5.78)	26.8 (2.7)	66.5 (12.1)	-15.1 (2.05)	20.5 (7.16)
8	26.6 (2.7)	64.5 (10.5)	-15.8 (1.83)	18.9 (9.53)	26.6 (2.8)	64.5 (10.1)	-15.2 (2.86)	20.2 (9.20)	26.5 (3.4)	67.3 (11.8)	-14.9 (2.86)	19.7 (8.20)
9	25.4 (1.4)	65.1 (6.8)	-15.0 (1.76)	15.5 (4.60)	25.0 (1.4)	65.8 (7.0)	-15.1 (3.69)	18.5 (5.11)	25.3 (1.8)	67.6 (7.9)	-14.9 (2.24)	17.0 (2.86)
10	25.6 (2.6)	57.9 (9.3)	-15.7 (1.92)	17.8 (9.85)	25.8 (2.6)	57.8 (8.1)	-14.2 (4.08)	17.0 (8.29)	25.4 (3.4)	60.2 (10.4)	-14.8 (3.15)	17.6 (6.56)
11	26.0 (2.6)	60.8 (6.3)	-15.4 (1.88)	18.8 (9.81)	26.0 (2.5)	60.8 (5.6)	-15.8 (3.80)	18.5 (7.57)	26.0 (3.2)	63.2 (7.1)	-14.3 (2.86)	17.9 (6.75)
12	28.2 (3.5)	59.0 (7.1)	-16.2 (1.70)	23.6 (9.36)	28.0 (3.5)	59.2 (6.7)	-16.2 (4.04)	24.7 (8.42)	28.3 (3.7)	61.2 (7.3)	-15.4 (2.41)	23.7 (8.19)
13	25.1 (0.7)	73.0 (4.5)	-14.9 (1.80)	13.9 (1.68)	24.6 (0.5)	73.7 (4.5)	-16.3 (3.90)	17.1 (3.99)	25.4 (1.1)	75.0 (5.1)	-14.7 (1.91)	13.9 (1.88)
14	26.3 (2.3)	67.1 (8.9)	-16.7 (2.02)	19.4 (9.29)	25.9 (2.5)	67.5 (8.8)	-15.5 (5.79)	21.2 (10.3)	26.0 (3.0)	69.9 (9.9)	-15.1 (3.19)	19.5 (7.34)
15	26.7 (2.8)	57.2 (14.4)	-16.0 (1.92)	20.0 (10.4)	26.5 (3.0)	58.0 (13.9)	-15.5 (3.64)	22.3 (11.0)	26.6 (3.5)	59.9 (15.9)	-15.0 (3.01)	20.7 (9.05)
16	26.7 (3.0)	69.2 (9.4)	-16.4 (1.97)	19.0 (8.55)	26.3 (3.0)	69.4 (9.5)	-16.0 (4.72)	22.9 (9.52)	26.7 (3.1)	71.8 (9.3)	-14.5 (2.65)	19.2 (7.66)
17	27.3 (3.3)	71.0 (7.0)	-15.7 (1.37)	21.0 (9.39)	26.9 (3.5)	71.3 (7.2)	-16.8 (4.34)	23.1 (8.43)	27.4 (3.5)	73.2 (7.7)	-15.5 (2.20)	21.6 (8.21)
18	26.7 (1.9)	67.9 (8.3)	-15.8 (1.54)	20.9 (8.30)	26.2 (2.2)	68.5 (8.9)	-17.4 (1.68)	25.7 (7.32)	27.0 (2.3)	70.0 (8.9)	-14.3 (1.82)	19.3 (5.40)
19	26.7 (2.1)	60.7 (5.7)	-15.8 (1.73)	20.9 (8.58)	26.3 (2.4)	60.9 (6.1)	-16.7 (4.20)	25.7 (8.28)	27.0 (2.5)	62.1 (5.6)	-13.9 (2.44)	19.4 (6.72)
20	25.9 (1.6)	69.1 (7.5)	-15.2 (1.45)	17.3 (5.84)	25.4 (1.8)	70.1 (7.9)	-17.2 (1.90)	23.0 (6.97)	26.0 (2.0)	71.3 (8.5)	-14.8 (2.12)	17.3 (3.70)
21	26.0 (2.4)	65.1 (8.7)	-16.5 (1.78)	18.7 (9.37)	25.6 (2.7)	65.5 (8.7)	-15.9 (5.76)	21.7 (10.2)	25.9 (3.1)	67.3 (9.7)	-15.0 (3.11)	19.4 (7.62)
22	26.2 (2.2)	69.6 (6.8)	-15.9 (1.62)	18.2 (9.24)	25.8 (2.5)	69.9 (7.3)	-16.0 (4.06)	22.9 (9.82)	26.2 (3.1)	71.6 (7.0)	-14.7 (2.95)	18.9 (8.01)
23	26.5 (2.4)	73.4 (7.1)	-15.4 (3.58)	18.7 (7.81)	25.9 (2.7)	74.4 (7.3)	-15.9 (6.13)	25.0 (6.96)	26.9 (2.6)	74.8 (7.1)	-12.0 (5.03)	19.2 (7.71)
24	26.4 (2.0)	72.7 (4.7)	-15.4 (1.82)	18.8 (7.40)	25.9 (2.2)	73.9 (5.4)	-17.1 (2.24)	25.2 (6.64)	27.0 (2.0)	74.1 (4.3)	-13.9 (1.94)	18.2 (7.02)
25	27.5 (2.9)	68.9 (6.4)	-15.1 (1.36)	22.5 (9.06)	27.1 (3.1)	69.8 (7.1)	-17.6 (1.83)	27.3 (7.64)	27.8 (3.2)	70.7 (7.1)	-15.2 (2.18)	23.2 (7.88)
26	29.1 (3.3)	63.2 (12.0)	-15.3 (1.42)	24.5 (8.59)	28.7 (3.6)	64.3 (11.9)	-17.9 (1.55)	30.4 (4.18)	29.7 (3.1)	64.6 (11.8)	-14.6 (2.20)	23.7 (8.67)
27	26.6 (2.5)	71.4 (5.1)	-16.2 (2.07)	19.7 (8.41)	26.1 (2.8)	72.8 (5.8)	-17.7 (1.49)	26.3 (6.97)	27.3 (2.4)	75.4 (6.9)	-10.3 (6.75)	21.2 (7.10)
28	26.8 (3.0)	71.8 (7.7)	-16.3 (1.73)	20.1 (8.50)	26.3 (3.3)	72.6 (8.3)	-17.2 (1.24)	26.4 (7.05)	27.6 (2.7)	75.8 (8.8)	-12.1 (6.86)	21.9 (6.84)
29	27.3 (1.6)	73.3 (5.0)	-15.3 (2.52)	21.9 (7.26)	26.5 (2.2)	73.9 (5.7)	-17.9 (1.49)	28.4 (4.16)	27.7 (1.6)	75.2 (5.0)	-14.0 (2.37)	20.1 (7.18)
30	28.1 (2.6)	70.6 (7.4)	-14.3 (3.30)	22.2 (8.87)	27.2 (3.3)	71.3 (8.1)	-15.8 (4.41)	27.5 (5.84)	28.3 (2.7)	72.7 (7.5)	-14.0 (1.73)	21.8 (8.98)
31	27.8 (3.3)	70.3 (7.7)	-15.9 (1.58)	21.2 (9.05)	27.5 (3.5)	71.5 (9.0)	-10.2 (7.01)	27.7 (6.23)	28.5 (3.0)	71.9 (7.8)	-13.7 (1.70)	20.7 (9.36)
Avg	26.8	65.9	-15.3	19.3	26.4	66.6	-15.9	22.7	27.0	68.3	-14.2	19.3
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.9	6.0	1.33	2.46	0.9	6.1	1.48	3.79	1.0	6.0	1.09	2.45
Min	25.1	53.4	-16.7	13.9	24.6	54.2	-17.9	15.8	25.3	55.2	-15.5	13.8
Max	29.1	74.0	-9.15	24.5	28.7	75.4	-10.2	30.4	29.7	76.1	-10.3	23.7

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for August, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	27.7 (2.3)	71.9 (6.8)	-15.4 (1.93)	22.3 (8.56)	27.5 (2.5)	72.7 (7.7)	-13.0 (5.98)	27.8 (3.05)	28.3 (2.2)	73.5 (7.1)	-13.1 (3.21)	22.0 (8.33)
2	27.0 (1.5)	76.6 (4.7)	-16.3 (1.59)	19.7 (5.91)	26.4 (1.8)	76.2 (5.0)	-16.1 (0.89)	25.8 (1.62)	27.4 (1.4)	77.7 (4.6)	-13.8 (2.34)	18.8 (6.12)
3	26.8 (1.9)	76.6 (4.2)	-15.0 (3.81)	19.8 (7.68)	26.1 (2.3)	76.4 (4.5)	-13.5 (6.18)	28.1 (5.39)	27.1 (1.8)	77.3 (4.2)	-10.3 (5.02)	18.9 (8.63)
4	27.4 (3.2)	69.5 (9.1)	-15.8 (1.75)	23.6 (8.51)	27.1 (3.3)	69.3 (9.3)	-17.7 (2.08)	27.7 (7.39)	27.7 (3.4)	70.1 (8.8)	-15.8 (2.67)	23.6 (7.84)
5	27.8 (2.6)	72.1 (7.8)	-11.7 (6.23)	21.4 (7.65)	26.6 (3.2)	72.1 (8.0)	-17.9 (1.98)	31.4 (3.05)	27.8 (2.7)	72.0 (6.9)	-13.9 (2.56)	19.5 (8.28)
6	27.9 (1.9)	71.8 (8.2)	-12.6 (6.18)	22.5 (8.64)	27.1 (2.7)	71.3 (7.6)	-16.5 (5.21)	30.2 (7.23)	28.0 (2.0)	71.9 (6.3)	-13.2 (4.14)	20.3 (9.52)
7	26.9 (2.4)	63.9 (10.4)	-16.2 (1.93)	21.2 (9.01)	26.7 (2.8)	64.8 (11.2)	-10.9 (5.81)	26.9 (7.35)	27.2 (2.8)	65.0 (10.8)	-15.2 (2.50)	22.2 (8.16)
8	27.2 (3.1)	63.7 (9.1)	-16.4 (1.76)	21.5 (9.73)	27.0 (3.2)	64.2 (9.6)	-13.0 (7.37)	26.1 (6.66)	27.4 (3.5)	65.0 (9.3)	-15.4 (2.79)	22.4 (8.52)
9	28.4 (3.7)	64.5 (9.5)	-16.4 (1.66)	24.0 (9.08)	28.2 (4.0)	64.8 (9.6)	-15.5 (1.71)	21.3 (4.07)	28.7 (3.8)	66.4 (9.5)	-15.5 (2.24)	24.6 (7.96)
10	29.7 (4.1)	62.1 (10.3)	-14.3 (4.67)	26.1 (9.07)	29.7 (3.9)	61.8 (9.7)	-14.9 (6.10)	25.1 (6.96)	30.2 (3.6)	63.4 (10.1)	-11.6 (5.65)	26.2 (9.62)
11	28.6 (3.4)	67.6 (10.1)	-14.0 (5.81)	23.2 (7.62)	27.7 (4.0)	67.6 (10.0)	-17.2 (2.62)	28.9 (4.10)	28.9 (3.4)	68.6 (9.0)	-11.8 (5.90)	22.0 (8.01)
12	26.5 (1.3)	78.8 (4.5)	-12.8 (6.36)	19.8 (6.28)	25.3 (2.2)	77.1 (4.0)	-15.3 (1.80)	27.6 (3.34)	26.4 (1.7)	78.7 (4.0)	-5.86 (4.56)	19.6 (5.82)
13	25.7 (0.9)	77.1 (2.6)	-16.9 (2.04)	17.7 (3.37)	25.0 (1.2)	77.7 (2.5)	-15.3 (1.29)	25.8 (0.32)	26.2 (0.8)	78.0 (2.5)	-3.85 (2.49)	17.4 (3.92)
14	25.7 (1.1)	74.9 (3.6)	-15.8 (2.02)	18.0 (5.00)	24.8 (1.6)	76.2 (4.3)	-17.3 (3.57)	29.5 (6.00)	26.2 (1.1)	75.8 (3.3)	-4.67 (3.56)	18.4 (5.24)
15	26.2 (2.0)	72.6 (5.9)	-15.9 (2.02)	20.5 (8.04)	25.3 (2.6)	74.1 (7.2)	-16.6 (2.25)	30.2 (4.51)	26.5 (2.3)	73.7 (5.9)	-6.94 (5.77)	21.6 (7.30)
16	26.9 (2.3)	71.2 (8.0)	-15.5 (1.94)	22.3 (8.44)	26.1 (3.0)	72.4 (9.2)	-17.8 (1.03)	32.0 (3.08)	27.4 (2.4)	72.5 (7.9)	-7.98 (5.89)	22.7 (7.79)
17	27.5 (2.8)	70.1 (7.8)	-15.0 (4.54)	23.6 (9.27)	26.8 (3.4)	71.0 (9.1)	-17.6 (4.86)	32.2 (3.38)	28.0 (2.8)	71.1 (7.8)	-7.09 (6.66)	24.4 (9.18)
18	27.9 (2.8)	69.1 (8.5)	-15.9 (1.75)	24.3 (8.26)	27.4 (3.4)	69.7 (9.5)	-18.8 (0.43)	33.2 (0.36)	28.5 (2.8)	70.2 (8.3)	-10.5 (7.05)	23.6 (8.04)
19	28.1 (3.2)	68.6 (10.1)	-15.5 (3.44)	23.9 (8.37)	27.6 (3.6)	69.4 (10.4)	-18.0 (1.93)	30.9 (3.36)	28.6 (3.1)	70.3 (9.6)	-11.0 (6.94)	24.1 (8.06)
20	28.5 (3.2)	69.5 (9.9)	-15.9 (1.69)	25.2 (7.82)	28.3 (3.4)	69.7 (9.5)	-16.9 (2.29)	28.1 (3.23)	29.0 (3.0)	71.6 (9.8)	-11.3 (6.65)	24.7 (7.52)
21	27.2 (1.2)	77.2 (2.8)	-15.0 (1.29)	22.3 (5.97)	27.0 (1.5)	76.8 (2.8)	-14.9 (0.35)	25.5 (0.15)	27.7 (1.2)	79.6 (2.8)	-9.46 (4.90)	23.0 (5.13)
22	26.3 (2.2)	75.5 (5.4)	-15.8 (1.76)	19.0 (6.49)	25.7 (2.5)	76.1 (5.5)	-16.0 (2.48)	25.2 (3.56)	26.7 (2.2)	78.5 (5.5)	-6.57 (5.31)	19.0 (6.37)
23	25.4 (1.9)	74.5 (3.0)	-16.7 (1.93)	17.9 (6.65)	24.9 (2.3)	75.7 (3.5)	-16.3 (1.70)	22.6 (4.11)	25.9 (1.9)	77.4 (3.5)	-5.80 (5.21)	17.8 (6.71)
24	25.8 (2.7)	71.8 (5.9)	-14.2 (5.63)	20.7 (9.76)	25.4 (3.1)	73.5 (6.0)	-16.3 (6.46)	22.9 (4.46)	26.3 (2.5)	74.7 (6.0)	-6.01 (6.74)	19.9 (9.16)
25	26.2 (3.1)	68.5 (8.2)	-16.2 (1.91)	22.3 (9.26)	26.1 (3.5)	69.2 (8.8)	-16.9 (1.63)	25.3 (6.13)	27.1 (3.0)	70.0 (8.0)	-11.9 (6.62)	21.9 (9.40)
26	26.4 (3.1)	69.5 (7.9)	-15.6 (1.63)	23.0 (8.90)	26.4 (3.4)	69.6 (8.4)	-16.9 (2.24)	25.4 (5.84)	27.4 (3.0)	71.1 (8.2)	-15.4 (2.96)	22.7 (8.73)
27	26.9 (3.3)	68.0 (9.3)	-15.7 (1.38)	22.5 (8.92)	26.6 (3.6)	68.8 (9.8)	-17.4 (2.98)	26.3 (5.15)	27.7 (3.2)	70.0 (9.4)	-14.6 (2.83)	22.2 (8.53)
28	26.4 (2.3)	73.7 (6.5)	-15.1 (1.70)	21.4 (7.75)	26.0 (2.7)	74.5 (7.1)	-16.4 (2.22)	26.2 (3.17)	27.1 (2.2)	76.3 (6.7)	-14.4 (3.12)	20.9 (7.40)
29	26.7 (1.8)	72.7 (6.0)	-15.5 (1.84)	23.2 (7.35)	26.5 (2.0)	72.9 (6.9)	-17.2 (1.02)	26.0 (2.49)	27.3 (1.7)	75.5 (6.1)	-14.2 (2.99)	22.8 (6.78)
30	27.2 (2.6)	71.2 (9.2)	-15.4 (1.54)	24.2 (7.31)	27.0 (2.8)	71.0 (9.3)	-17.5 (1.42)	27.1 (3.18)	27.7 (2.4)	74.0 (8.9)	-15.0 (3.19)	23.5 (6.93)
31												
Avg	27.1	71.2	-15.3	21.9	26.6	71.5	-16.2	27.4	27.5	72.7	-11.1	21.7
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.0	4.2	1.19	2.12	1.1	4.1	1.72	2.85	1.0	4.3	3.70	2.24
Min	25.4	62.1	-16.9	17.7	24.8	61.8	-18.8	21.3	25.9	63.4	-15.8	17.4
Max	29.7	78.8	-11.7	26.1	29.7	77.7	-10.9	33.2	30.2	79.6	-3.85	26.2

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for September, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	24.0 (1.6)	64.5 (5.7)	-17.9 (2.11)	15.7 (4.66)	23.5 (1.9)	66.1 (6.4)	-17.2 (2.47)	20.4 (3.89)	24.7 (1.5)	67.0 (5.4)	-16.4 (2.92)	15.4 (4.60)
2	24.0 (1.3)	61.5 (3.3)	-16.7 (1.87)	13.9 (4.60)	23.6 (1.8)	63.0 (3.8)	-20.6 (10.8)	19.6 (5.92)	24.8 (1.3)	63.9 (3.0)	-14.5 (2.62)	13.6 (4.21)
3	24.2 (1.5)	63.8 (2.6)	-16.6 (2.08)	16.4 (5.28)	23.7 (1.8)	64.8 (3.5)	-15.1 (2.54)	22.4 (4.54)	25.1 (1.3)	66.3 (3.2)	-15.0 (2.70)	16.1 (5.12)
4	24.4 (2.2)	59.7 (9.6)	-16.4 (1.61)	16.2 (8.12)	23.9 (2.6)	61.2 (10.1)	-15.6 (6.46)	19.7 (6.41)	25.2 (2.0)	62.9 (9.2)	-14.6 (2.28)	15.9 (7.22)
5	24.9 (3.3)	60.4 (7.5)	-16.6 (1.57)	19.4 (10.9)	24.9 (3.6)	60.1 (7.7)	-16.2 (4.14)	20.8 (9.04)	25.8 (3.2)	62.4 (7.1)	-15.3 (2.99)	19.3 (10.5)
6	25.1 (2.5)	60.3 (8.2)	-17.3 (1.77)	19.1 (8.88)	24.7 (3.0)	61.5 (8.7)	-14.6 (4.76)	22.2 (5.85)	26.0 (2.3)	62.7 (8.0)	-15.7 (3.66)	18.6 (8.83)
7	24.7 (0.7)	71.7 (1.9)	-16.7 (1.74)	15.8 (2.08)	23.8 (1.0)	73.8 (2.0)	-15.0 (3.11)	25.2 (2.45)	25.4 (0.7)	74.3 (2.6)	-15.2 (2.54)	15.3 (1.66)
8	25.1 (1.5)	68.6 (3.9)	-16.3 (2.09)	18.3 (6.54)	24.4 (2.0)	70.1 (5.6)	-15.5 (2.32)	24.9 (2.45)	25.8 (1.4)	71.2 (3.8)	-13.7 (2.68)	17.8 (5.97)
9	24.3 (2.1)	62.4 (8.3)	-17.1 (1.98)	17.4 (7.92)	23.9 (2.6)	63.3 (8.9)	-17.0 (4.30)	20.0 (5.08)	25.2 (2.0)	64.3 (8.2)	-15.1 (2.73)	16.2 (7.16)
10	23.3 (0.8)	67.6 (1.7)	-17.2 (1.59)	12.3 (2.28)	22.3 (0.8)	68.4 (2.3)	-15.7 (5.58)	18.9 (5.75)	24.1 (0.7)	69.6 (2.9)	-14.3 (2.28)	11.7 (2.09)
11	23.7 (1.7)	61.7 (5.5)	-16.6 (2.99)	14.5 (5.85)	23.0 (1.9)	62.0 (6.4)	-15.7 (5.35)	19.0 (6.25)	24.6 (1.5)	63.9 (5.1)	-15.1 (2.51)	13.9 (5.43)
12	24.1 (2.9)	65.7 (6.9)	-16.9 (1.91)	17.1 (9.48)	24.0 (3.0)	64.7 (7.7)	-16.4 (2.14)	18.5 (7.52)	25.3 (2.5)	66.8 (7.0)	-14.5 (2.68)	17.2 (9.07)
13	24.3 (2.3)	62.8 (7.7)	-17.0 (1.80)	17.2 (8.28)	23.9 (2.7)	62.7 (8.7)	-15.1 (5.30)	19.6 (6.56)	25.4 (2.1)	65.0 (7.2)	-15.3 (2.86)	17.2 (7.54)
14	24.4 (3.4)	58.5 (10.0)	-16.6 (1.71)	18.3 (10.7)	24.3 (3.6)	57.7 (9.7)	-15.1 (3.62)	18.3 (7.65)	25.6 (3.0)	59.8 (9.2)	-15.7 (2.73)	18.2 (10.1)
15	25.1 (3.4)	60.5 (9.0)	-15.8 (3.33)	19.7 (10.8)	25.1 (3.6)	59.6 (8.9)	-14.7 (4.84)	20.0 (7.70)	26.2 (3.0)	60.8 (8.6)	-15.0 (2.77)	19.8 (10.3)
16	24.6 (2.0)	68.0 (4.8)	-16.3 (1.85)	17.8 (7.15)	24.5 (2.3)	67.7 (5.8)	-15.4 (3.68)	22.1 (5.67)	25.8 (1.7)	68.3 (4.4)	-14.7 (2.71)	18.8 (6.60)
17	23.9 (1.4)	71.4 (4.2)	-16.1 (1.76)	15.5 (4.48)	23.8 (1.5)	72.4 (5.1)	-17.2 (1.70)	20.8 (4.31)	25.4 (1.2)	71.6 (3.9)	-13.8 (2.24)	16.1 (4.60)
18	23.7 (1.8)	69.1 (4.0)	-17.3 (1.71)	15.2 (5.46)	23.5 (2.0)	70.4 (5.4)	-17.1 (3.71)	20.2 (5.05)	25.1 (1.6)	69.8 (4.1)	-15.6 (2.60)	16.2 (5.01)
19	24.5 (2.4)	66.2 (5.5)	-16.2 (1.75)	17.6 (8.56)	24.5 (2.8)	66.2 (6.5)	-15.3 (4.85)	20.9 (6.74)	25.9 (2.2)	66.5 (5.3)	-14.7 (3.05)	19.0 (8.47)
20	24.1 (2.4)	64.1 (5.8)	-16.6 (1.97)	16.1 (8.34)	24.0 (2.8)	64.7 (6.8)	-17.5 (5.03)	19.5 (6.03)	25.4 (2.2)	64.9 (5.4)	-15.4 (3.20)	17.7 (8.01)
21	24.4 (2.6)	63.7 (6.6)	-16.1 (1.70)	17.4 (9.19)	24.4 (2.9)	63.2 (7.4)	-15.3 (4.85)	20.9 (7.31)	25.9 (2.3)	63.9 (6.4)	-15.1 (3.13)	18.6 (8.89)
22	24.9 (0.8)	77.6 (2.0)	-15.7 (1.44)	17.1 (4.35)	24.6 (1.2)	78.4 (1.2)	-14.1 (0.56)	26.1 (0.17)	26.0 (0.7)	77.3 (2.4)	-9.71 (5.17)	18.9 (3.95)
23	25.2 (1.9)	75.3 (3.8)	-15.8 (1.74)	19.1 (7.59)	25.0 (2.3)	75.7 (5.0)	-16.6 (2.08)	25.2 (1.75)	26.2 (1.8)	77.0 (4.1)	-7.31 (5.79)	20.4 (6.93)
24	25.7 (2.9)	72.0 (5.8)	-16.9 (1.91)	21.1 (9.11)	25.7 (3.1)	71.8 (6.9)	-16.9 (2.97)	22.5 (4.49)	26.7 (2.6)	73.3 (5.9)	-8.84 (6.94)	21.7 (8.56)
25	25.2 (2.4)	72.7 (4.4)	-17.3 (1.88)	18.8 (8.07)	24.8 (2.8)	73.0 (5.5)	-16.6 (2.16)	23.7 (3.60)	26.1 (2.4)	74.2 (5.0)	-7.44 (6.00)	19.5 (7.74)
26	23.0 (0.9)	73.0 (2.5)	-16.6 (1.85)	12.5 (2.04)	22.4 (0.8)	74.5 (3.0)	-16.5 (5.17)	18.3 (5.18)	24.2 (0.8)	73.7 (3.3)	-9.36 (6.69)	12.7 (2.44)
27	24.2 (1.8)	71.3 (6.0)	-17.1 (1.37)	15.7 (5.83)	23.9 (2.0)	72.2 (7.0)	-16.8 (3.63)	21.0 (5.52)	25.4 (1.6)	72.7 (6.3)	-14.4 (2.23)	15.9 (5.92)
28	24.8 (3.0)	62.8 (7.9)	-16.7 (1.58)	18.8 (9.64)	24.6 (3.0)	61.7 (7.7)	-17.7 (3.68)	19.4 (7.65)	25.7 (2.7)	63.7 (8.3)	-15.6 (2.77)	18.2 (9.22)
29	22.7 (2.0)	49.1 (9.5)	-15.1 (4.05)	11.5 (4.06)	22.0 (1.6)	48.2 (9.4)	-16.7 (4.58)	14.5 (8.08)	23.7 (1.7)	49.9 (10.1)	-16.2 (3.83)	11.4 (3.93)
30	21.0 (2.3)	57.8 (7.5)	-12.1 (7.84)	8.63 (5.05)	21.3 (1.3)	56.3 (7.2)	-15.4 (5.01)	10.8 (7.67)	22.8 (1.6)	59.4 (7.7)	-16.3 (5.57)	9.41 (4.26)
Avg	24.3	65.5	-16.5	16.5	23.9	65.9	-16.2	20.5	25.3	66.9	-14.0	16.7
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.9	6.0	0.99	2.66	1.0	6.5	1.25	3.02	0.8	5.9	2.55	2.81
Min	21.0	49.1	-17.9	8.63	21.3	48.2	-20.6	10.8	22.8	49.9	-16.4	9.41
Max	25.7	77.6	-12.1	21.1	25.7	78.4	-14.1	26.1	26.7	77.3	-7.31	21.7

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for October, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	22.0 (2.4)	56.9 (7.0)	-14.5 (5.68)	9.88 (5.34)	21.8 (1.8)	56.4 (7.3)	-15.9 (4.69)	12.7 (8.46)	23.3 (2.0)	59.6 (8.4)	-15.9 (4.94)	10.5 (4.74)
2	22.3 (1.9)	66.0 (5.8)	-15.7 (5.59)	10.8 (4.59)	22.0 (1.4)	66.2 (7.0)	-15.8 (3.74)	15.5 (7.89)	23.6 (1.6)	68.7 (6.0)	-16.3 (4.89)	11.4 (4.25)
3	24.1 (2.4)	63.9 (7.8)	-16.8 (1.66)	16.2 (8.11)	23.7 (2.6)	64.2 (8.3)	-15.9 (3.39)	18.3 (6.81)	25.1 (2.2)	65.8 (8.1)	-14.8 (2.59)	16.3 (7.49)
4	22.3 (1.7)	57.2 (9.5)	-16.4 (2.92)	10.6 (3.92)	22.0 (1.4)	57.4 (9.8)	-18.1 (4.47)	13.5 (7.94)	23.5 (1.4)	59.6 (10.0)	-15.6 (3.36)	10.9 (3.74)
5	21.8 (0.4)	67.2 (3.3)	-16.4 (0.94)	8.48 (0.80)	21.8 (0.4)	67.3 (4.0)	-18.7 (3.87)	8.77 (2.21)	22.8 (0.5)	69.1 (4.4)	-13.2 (1.09)	8.69 (0.66)
6	22.8 (0.7)	70.6 (2.0)	-17.7 (1.64)	10.6 (2.06)	22.2 (0.7)	72.3 (3.5)	-17.1 (5.01)	13.6 (4.16)	23.7 (0.7)	72.7 (2.8)	-15.9 (2.66)	10.8 (1.96)
7	22.8 (2.9)	73.3 (2.9)	-2.21 (4.64)	3.13 (4.42)	23.8 (3.0)	67.1 (7.1)	-17.8 (4.38)	16.9 (7.02)	24.8 (2.6)	67.7 (6.8)	-13.8 (6.11)	15.4 (8.99)
8	18.9 (1.4)	81.9 (8.7)	-0.24 (0.79)	0.00 (0.00)	21.5 (1.3)	54.1 (7.5)	-17.0 (4.70)	12.3 (7.28)	22.8 (1.7)	55.8 (8.3)	-15.9 (6.24)	8.73 (3.98)
9	23.2 (4.5)	83.3 (6.7)	-20.1 (16.9)	18.5 (14.2)	25.1 (3.7)	65.6 (5.3)	-16.4 (3.31)	18.9 (8.49)	25.8 (3.5)	69.1 (5.4)	-15.4 (5.38)	18.5 (10.9)
10	23.7 (2.8)	79.8 (6.5)	-33.1 (1.33)	29.1 (0.30)	25.2 (2.4)	73.3 (5.7)	-16.6 (1.15)	23.7 (3.17)	26.0 (2.0)	75.2 (5.2)	-13.9 (2.60)	18.6 (7.05)
11	17.5 (1.5)	76.7 (3.0)	-23.6 (11.0)	17.7 (10.2)	21.7 (0.6)	65.9 (1.9)	-17.4 (5.73)	12.4 (4.14)	22.7 (0.7)	66.9 (1.5)	-15.6 (3.58)	8.68 (1.30)
12	16.1 (0.7)	78.0 (2.2)	-14.6 (0.66)	8.74 (0.07)	21.8 (0.4)	65.7 (2.6)	-18.2 (3.00)	8.61 (1.71)	22.1 (0.4)	68.7 (1.9)	-18.9 (3.12)	7.77 (1.20)
13	18.1 (3.8)	73.1 (9.5)	-14.7 (0.77)	8.64 (0.13)	22.2 (1.5)	62.4 (5.0)	-18.2 (2.92)	13.6 (7.27)	23.0 (1.7)	65.4 (5.3)	-16.2 (4.70)	9.83 (4.26)
14	13.7 (1.3)	76.9 (3.3)	-14.7 (0.83)	8.77 (0.11)	18.9 (2.6)		-14.3 (5.77)		20.4 (2.0)		-14.5 (7.88)	
15	12.8 (1.5)	81.0 (0.9)	-14.6 (0.89)	8.73 (0.14)	14.5 (1.7)		-6.24 (5.20)		16.0 (1.2)		-7.14 (9.29)	
16	13.0 (1.1)	78.5 (2.5)	-14.3 (0.90)	8.75 (0.09)	15.3 (0.9)		-0.14 (0.60)		16.5 (0.6)		-0.17 (0.95)	
17	12.5 (2.6)	68.8 (8.2)	-14.1 (0.85)	8.84 (0.10)	14.3 (1.7)		-0.24 (0.42)		16.5 (1.8)		0.35 (0.94)	
18	9.0 (0.9)	71.8 (2.1)	-14.4 (0.81)	8.97 (0.07)	12.0 (0.4)		-0.34 (0.45)		14.9 (0.4)		0.71 (0.77)	
19	11.2 (4.4)	63.3 (10.7)	-14.9 (2.18)	8.91 (0.20)	14.7 (3.3)		-2.28 (5.48)		14.9 (1.5)		0.34 (0.83)	
20	16.6 (7.0)	64.5 (10.2)	-8.57 (9.81)	3.92 (4.05)	19.0 (3.8)		-7.95 (9.26)		15.6 (3.7)		0.78 (0.42)	
21	21.6 (3.0)	59.2 (11.0)	-9.23 (11.2)	3.12 (3.64)	20.9 (3.2)		-10.3 (9.91)		16.1 (4.3)		-8.36 (12.7)	
22	24.1 (1.7)	61.5 (6.8)	-12.3 (10.1)	5.17 (4.87)	22.6 (3.1)	61.9 (5.7)	-14.6 (12.6)	5.92 (5.95)	17.3 (5.8)	72.3 (9.3)	-16.7 (14.3)	6.71 (2.46)
23	25.2 (1.7)	61.2 (6.8)	-16.5 (7.83)	8.00 (5.11)	24.7 (1.8)	61.3 (6.9)	-18.4 (10.5)	9.35 (8.00)	21.0 (4.4)	72.4 (11.7)	-15.3 (0.67)	8.47 (0.14)
24	26.1 (2.0)	66.2 (5.1)	-19.8 (4.92)	10.9 (3.81)	25.9 (1.5)	64.5 (4.6)	-20.9 (5.74)	12.2 (7.82)	23.7 (2.6)	74.1 (7.7)	-15.1 (1.33)	8.34 (0.10)
25	23.4 (1.2)	60.4 (3.9)	-13.2 (9.86)	4.18 (3.14)	23.2 (1.1)	61.2 (3.3)	-11.5 (9.43)	4.02 (3.00)	17.6 (2.7)	66.8 (5.9)	-16.6 (1.37)	8.47 (0.14)
26	22.2 (0.8)	66.4 (3.2)	-7.91 (9.48)	2.23 (3.17)	22.2 (0.7)	67.2 (2.9)	-7.38 (8.93)	2.44 (2.99)	17.1 (3.9)	76.4 (2.5)	-12.1 (9.65)	5.33 (3.85)
27	22.5 (0.9)	68.3 (1.5)	-12.4 (12.6)	3.97 (3.72)	22.4 (0.8)	68.9 (1.1)	-12.0 (10.9)	3.81 (3.41)	23.0 (1.0)	73.1 (1.1)	-7.47 (11.0)	2.63 (3.31)
28	25.0 (1.9)	65.6 (8.7)	-20.2 (13.5)	8.16 (4.78)	24.6 (1.5)	66.7 (9.3)	-22.8 (8.81)	10.2 (6.41)	25.2 (1.6)	69.1 (10.0)	-19.0 (9.74)	7.32 (3.97)
29	23.3 (1.4)	60.9 (3.2)	-14.9 (11.5)	4.89 (3.73)	23.1 (1.3)	62.5 (3.1)	-14.4 (9.90)	5.92 (6.46)	23.8 (1.3)	64.6 (3.8)	-12.0 (11.2)	4.26 (3.71)
30	23.2 (1.1)	66.0 (2.3)	-12.2 (11.2)	3.81 (3.57)	23.0 (1.2)	67.0 (2.4)	-12.0 (8.84)	3.88 (2.84)	23.4 (1.0)	69.6 (1.9)	-8.75 (11.1)	3.05 (3.54)
31	24.2 (1.0)	71.4 (2.0)	-21.1 (8.07)	7.19 (3.11)	24.2 (0.7)	73.5 (2.8)	-22.9 (6.87)	8.25 (3.82)	24.7 (1.0)	74.9 (2.6)	-19.8 (9.61)	6.59 (3.29)
Avg	20.2	69.0	-14.9	8.74	21.3	64.9	-13.6	11.1	21.2	68.6	-12.0	9.45
n	31	31	31	31	31	23	31	23	31	23	31	23
SD	4.7	7.5	5.86	5.59	3.5	4.8	6.32	5.35	3.6	5.1	6.22	4.25
Min	9.0	56.9	-33.1	0.00	12.0	54.1	-22.9	2.44	14.9	55.8	-19.8	2.63
Max	26.1	83.3	-0.24	29.1	25.9	73.5	-0.14	23.7	26.0	76.4	0.78	18.6

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for November, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	23.5 (1.1)	70.5 (3.0)	-16.4 (10.1)	5.25 (3.80)	23.7 (1.2)	72.8 (3.0)	-17.6 (9.87)	6.40 (3.81)	24.2 (1.2)	73.7 (3.7)	-16.1 (11.3)	5.12 (3.70)
2	22.6 (0.7)	67.9 (1.6)	-6.03 (8.72)	1.79 (2.96)	22.1 (0.9)	67.9 (1.0)	-9.87 (10.6)	3.16 (3.32)	23.2 (0.9)	68.9 (1.6)	-6.57 (10.4)	2.24 (3.19)
3	22.8 (1.2)	63.6 (8.2)	-9.34 (10.8)	3.06 (3.55)	22.6 (1.1)	63.1 (6.4)	-12.4 (10.7)	3.91 (3.34)	23.6 (1.2)	62.9 (6.4)	-10.8 (11.9)	3.49 (3.50)
4	22.6 (1.4)	63.1 (6.3)	-9.91 (11.2)	3.09 (3.54)	22.5 (1.1)	61.6 (4.7)	-12.8 (10.9)	3.92 (3.24)	23.7 (1.3)	62.5 (4.6)	-11.6 (12.0)	3.72 (3.56)
5	22.8 (1.2)	58.5 (11.2)	-9.79 (11.1)	3.03 (3.51)	22.4 (1.2)	57.7 (8.1)	-12.5 (10.6)	3.85 (3.31)	23.7 (1.2)	58.5 (9.4)	-10.5 (11.7)	3.55 (3.64)
6	21.3 (1.5)	59.5 (11.2)	-6.29 (8.58)	2.32 (2.93)	20.9 (1.1)	59.0 (7.8)	-10.8 (10.4)	3.41 (3.29)	22.7 (1.2)	59.2 (9.0)	-7.33 (10.7)	2.52 (3.34)
7	21.5 (2.1)	61.0 (10.8)	-6.67 (10.2)	2.33 (3.24)	21.1 (1.8)	59.9 (7.9)	-11.8 (11.0)	3.59 (3.33)	22.7 (1.8)	60.2 (8.5)	-8.57 (11.1)	2.88 (3.44)
8	23.0 (1.9)	59.4 (10.4)	-10.2 (11.5)	3.70 (4.08)	22.5 (1.6)	58.7 (8.0)	-16.0 (12.9)	5.75 (5.29)	23.9 (1.6)	59.3 (8.4)	-12.3 (12.2)	4.53 (4.49)
9	23.2 (1.3)	63.4 (4.7)	-11.8 (11.9)	3.86 (3.66)	22.9 (1.4)	62.9 (3.5)	-18.4 (12.0)	6.70 (5.12)	24.3 (1.5)	64.4 (3.7)	-15.2 (11.6)	5.06 (3.82)
10	23.4 (0.8)	66.9 (2.7)	-14.8 (11.6)	4.69 (3.53)	23.3 (0.6)	67.3 (2.8)	-22.2 (6.78)	7.53 (3.28)	24.5 (0.8)	68.9 (3.2)	-19.3 (9.70)	5.97 (2.77)
11	22.6 (0.7)	69.5 (0.6)	-10.9 (9.72)	2.58 (3.35)	23.0 (0.5)	71.0 (1.7)	-13.6 (6.63)	5.12 (1.27)	23.7 (0.7)	71.9 (1.6)	-15.0 (10.8)	4.18 (3.44)
12	21.3 (1.3)	69.2 (1.1)	-5.22 (6.53)	1.30 (2.63)	22.0 (0.7)	70.0 (1.1)	-7.07 (5.31)	3.73 (2.08)	23.1 (0.8)	70.7 (1.3)	-6.15 (10.1)	2.33 (3.23)
13	21.8 (1.0)	68.9 (0.8)	-4.33 (6.44)	1.55 (2.85)	21.4 (0.9)	68.7 (0.9)	-9.43 (9.48)	3.29 (3.33)	23.2 (0.8)	70.1 (1.5)	-6.41 (10.4)	2.56 (3.32)
14	22.6 (1.0)	67.1 (1.0)	-6.96 (9.34)	2.91 (3.56)	21.6 (1.1)	68.3 (0.6)	-12.8 (9.80)	4.17 (3.06)	23.5 (0.9)	69.0 (1.2)	-10.4 (11.8)	3.55 (3.49)
15	22.0 (1.5)	64.6 (3.9)	-11.6 (10.4)	4.90 (4.29)	22.0 (1.3)	65.6 (4.3)	-15.5 (11.8)	5.25 (4.42)	24.0 (1.5)	66.5 (3.6)	-13.4 (12.4)	4.30 (3.70)
16	22.0 (1.8)	61.1 (6.4)	-12.0 (11.0)	5.11 (4.62)	22.3 (1.7)	62.1 (7.1)	-22.1 (16.4)	6.00 (5.13)	24.1 (1.7)	61.8 (6.2)	-14.4 (12.9)	4.91 (4.33)
17	21.5 (1.2)	62.2 (3.3)	-10.5 (10.1)	4.07 (3.74)	21.3 (1.2)	63.9 (3.9)	-21.7 (18.7)	3.70 (3.91)	23.6 (1.1)	62.3 (2.9)	-13.0 (12.3)	3.95 (3.53)
18	22.2 (1.0)	67.8 (2.9)	-16.2 (8.88)	5.83 (3.26)	21.5 (1.2)	69.3 (2.9)	-30.7 (15.1)	5.22 (2.99)	23.9 (0.8)	65.3 (1.3)	-18.0 (11.0)	5.25 (3.15)
19	23.6 (1.1)	70.2 (2.0)	-22.0 (1.81)	8.86 (2.10)	23.0 (1.0)	71.0 (3.1)	-37.1 (3.46)	8.78 (4.18)	24.9 (1.0)	68.2 (2.9)	-23.4 (6.11)	7.79 (2.51)
20	22.6 (1.1)	63.6 (4.9)	-17.7 (8.40)	6.67 (3.14)	22.3 (0.8)	64.7 (5.6)	-30.3 (10.4)	6.29 (2.80)	24.2 (1.0)	64.2 (5.2)	-17.8 (11.2)	5.39 (3.17)
21	21.6 (1.1)	61.8 (4.1)	-10.8 (10.5)	3.90 (3.63)	20.9 (1.1)	62.9 (4.5)	-20.8 (15.8)	3.90 (2.67)	23.4 (1.1)	61.9 (4.5)	-10.7 (12.4)	3.14 (3.54)
22	21.4 (1.1)	62.4 (3.8)	-9.42 (10.1)	3.32 (3.56)	20.8 (1.0)	63.9 (4.4)	-19.3 (15.3)	3.62 (2.65)	23.2 (1.1)	63.2 (4.3)	-9.92 (12.0)	2.85 (3.50)
23	21.7 (0.9)	67.5 (1.8)	-12.1 (10.1)	4.32 (3.59)	21.0 (0.8)	68.7 (0.9)	-23.3 (11.5)	4.45 (1.78)	23.5 (0.9)	68.1 (1.6)	-11.5 (12.1)	3.41 (3.54)
24	21.7 (1.0)	66.4 (1.3)	-11.6 (10.5)	4.31 (3.56)	20.8 (1.0)	67.6 (0.9)	-22.3 (14.6)	4.16 (2.30)	23.3 (1.1)	65.5 (1.6)	-8.78 (12.0)	2.86 (3.40)
25	21.6 (1.1)	65.5 (1.3)	-11.3 (10.8)	4.08 (3.57)	20.0 (0.9)	65.5 (1.7)			23.2 (1.1)	64.5 (1.6)	-8.09 (11.6)	2.60 (3.31)
26	21.6 (1.2)	65.2 (1.9)	-10.4 (10.7)	3.79 (3.63)	20.4 (1.2)	65.0 (2.0)			23.1 (1.2)	63.6 (2.3)	-7.86 (11.4)	2.56 (3.29)
27	21.4 (1.1)	58.9 (5.4)	-7.16 (9.78)	2.73 (3.39)	20.3 (1.1)	58.5 (5.7)			23.1 (1.2)	58.7 (5.6)	-6.43 (10.5)	2.30 (3.19)
28	20.8 (1.6)	59.4 (6.3)	-7.65 (9.97)	2.86 (3.44)	20.3 (1.1)	58.8 (6.7)			22.9 (1.4)	58.4 (6.7)	-7.13 (10.8)	2.37 (3.21)
29	22.3 (1.7)	56.2 (8.7)	-12.1 (10.7)	4.67 (4.16)	21.3 (1.6)	55.6 (8.9)	-24.1 (15.5)	5.72 (4.25)	23.5 (1.9)	55.4 (7.9)	-13.0 (12.0)	4.13 (3.67)
30	22.8 (1.4)	56.8 (4.2)	-12.9 (9.93)	5.14 (3.75)	21.3 (1.4)	56.7 (4.8)	-28.6 (13.5)	6.26 (3.44)	23.9 (1.3)		-14.0 (11.7)	
Avg	22.2	63.9	-10.8	3.87	21.7	64.3	-18.6	4.92	23.6	64.4	-11.8	3.78
n	30	30	30	30	30	30	26	26	30	29	30	29
SD	0.7	4.1	3.83	1.56	1.0	4.7	7.39	1.43	0.5	4.5	4.24	1.30
Min	20.8	56.2	-22.0	1.30	20.0	55.6	-37.1	3.16	22.7	55.4	-23.4	2.24
Max	23.6	70.5	-4.33	8.86	23.7	72.8	-7.07	8.78	24.9	73.7	-6.15	7.79

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for December, 2009.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	21.6 (1.3)	60.5 (5.0)	-8.22 (9.90)	3.00 (3.48)	20.4 (1.3)	60.8 (5.1)	-17.3 (14.8)	3.57 (2.63)	23.0 (1.5)		-8.71 (11.4)	
2	22.7 (1.5)	67.4 (4.9)	-14.2 (9.27)	5.50 (3.48)	21.5 (1.4)	69.3 (5.5)	-30.3 (14.0)	6.76 (4.01)	23.9 (1.3)		-15.7 (11.3)	
3	23.1 (1.4)	62.9 (4.4)	-15.7 (8.41)	6.31 (3.04)	21.8 (0.9)	62.9 (5.2)	-29.5 (9.67)	7.18 (2.97)	24.1 (1.1)	57.7 (4.1)	-16.8 (11.3)	5.18 (3.24)
4	21.8 (1.2)	61.7 (2.9)	-10.1 (10.5)	3.59 (3.70)	20.6 (1.1)	62.5 (2.6)	-22.2 (13.6)	4.41 (2.18)	23.1 (1.3)	57.0 (2.5)	-9.88 (12.0)	2.96 (3.44)
5	21.7 (1.2)	65.8 (2.0)	-8.46 (10.3)	3.05 (3.59)	20.6 (1.0)	67.8 (1.6)	-19.0 (10.6)	4.08 (1.73)	22.9 (1.3)	61.7 (2.3)	-8.18 (11.6)	2.67 (3.33)
6	21.2 (1.4)	66.1 (2.2)	-6.76 (9.47)	2.30 (3.30)	19.3 (1.3)	66.1 (3.0)	-16.3 (15.5)	3.17 (2.72)	22.5 (1.6)	62.1 (2.1)	-7.60 (10.6)	2.14 (3.05)
7	21.3 (1.4)	65.8 (2.4)	-8.07 (9.85)	2.93 (3.45)	19.7 (1.1)	66.4 (1.8)	-17.2 (13.4)	3.54 (2.36)	22.6 (1.5)	61.6 (2.0)	-8.27 (11.1)	2.41 (3.18)
8	21.4 (1.3)	65.1 (2.0)	-8.91 (9.93)	2.99 (3.51)	20.0 (1.2)	66.2 (1.3)	-17.1 (12.9)	3.89 (2.20)	22.4 (1.3)	60.3 (1.9)	-8.07 (10.6)	2.14 (3.12)
9	24.4 (1.4)	69.4 (2.0)	-16.2 (6.73)	8.59 (2.60)	22.7 (1.3)	71.5 (2.4)	-35.4 (6.01)	12.40 (4.55)	25.0 (1.1)	65.9 (1.9)	-18.4 (7.73)	7.28 (2.91)
10	22.5 (1.2)	53.8 (5.2)	-11.9 (10.5)	4.30 (3.60)	21.7 (0.9)	53.0 (4.8)	-18.1 (13.2)	5.22 (3.71)	23.5 (1.2)	48.9 (4.3)	-11.4 (12.1)	3.57 (3.47)
11	19.3 (3.3)	60.8 (5.5)	-8.48 (11.7)	2.55 (3.36)	21.5 (0.9)	63.1 (3.0)	-7.44 (10.2)	1.73 (2.35)	22.5 (1.2)	58.0 (3.5)	-4.82 (9.46)	1.31 (2.48)
12	21.3 (1.4)	64.8 (3.2)	-6.51 (10.1)	1.71 (2.74)	21.6 (1.0)	64.9 (2.9)	-10.4 (13.2)	2.13 (2.69)	22.7 (1.4)	60.6 (2.7)	-7.84 (11.2)	1.74 (2.77)
13	23.0 (1.3)	67.4 (5.8)	-14.2 (11.8)	4.52 (3.54)	22.8 (1.2)	67.6 (4.5)	-24.4 (14.5)	4.67 (2.65)	23.7 (1.1)	63.5 (4.6)	-18.0 (13.5)	4.43 (3.25)
14	22.7 (1.1)	67.1 (2.6)	-12.4 (13.4)	3.37 (3.37)	22.7 (1.0)	68.2 (2.8)	-16.8 (10.8)	3.91 (2.14)	23.0 (1.4)	62.7 (2.3)	-12.4 (12.6)	3.51 (3.44)
15	23.2 (0.8)	68.4 (3.5)	-20.5 (11.6)	5.44 (2.89)	23.4 (0.5)	69.4 (3.4)	-24.3 (9.15)	5.43 (1.21)	23.5 (0.9)	63.3 (3.2)	-18.7 (11.7)	5.22 (3.16)
16	22.3 (1.3)	62.2 (4.3)	-8.87 (11.7)	2.40 (3.23)	21.9 (1.1)	61.1 (3.5)	-11.3 (12.5)	2.82 (2.77)	22.3 (1.5)	56.1 (4.2)	-9.16 (11.9)	2.61 (3.35)
17	22.1 (1.4)	66.4 (3.4)	-8.28 (11.4)	2.22 (3.13)	21.5 (1.0)	65.0 (3.5)	-11.2 (13.0)	2.56 (2.75)	22.3 (1.6)	60.5 (3.5)	-8.32 (11.4)	2.21 (3.22)
18	21.4 (1.3)	66.4 (2.4)	-9.47 (10.1)	1.67 (2.81)	21.3 (0.9)	66.7 (2.3)	-12.6 (12.3)	2.40 (2.90)	21.9 (1.2)	62.2 (2.1)	-9.09 (9.38)	1.56 (2.67)
19	21.6 (1.1)	67.3 (3.3)	-5.77 (9.81)	1.46 (2.66)	20.5 (1.3)	67.4 (3.2)	-11.5 (14.1)	2.51 (3.08)	22.1 (1.4)	63.0 (2.9)	-5.86 (9.80)	1.72 (2.72)
20	21.8 (1.4)	65.6 (2.4)	-7.85 (11.4)	2.16 (3.09)	20.1 (1.7)	64.6 (1.9)	-13.6 (14.7)	2.93 (3.10)	22.3 (1.7)	60.9 (2.8)	-8.30 (11.4)	2.35 (3.19)
21	21.7 (1.5)	65.0 (3.1)	-8.00 (11.5)	2.20 (3.07)	19.8 (1.9)	63.8 (2.3)	-14.3 (15.1)	3.04 (3.03)	22.4 (1.8)	60.3 (3.1)	-9.02 (11.8)	2.48 (3.32)
22	21.8 (1.5)	64.7 (3.6)	-8.17 (11.4)	2.22 (3.02)	20.1 (1.9)	63.3 (3.4)	-13.8 (13.9)	3.19 (2.99)	22.3 (1.8)	59.6 (3.3)	-9.99 (11.8)	2.71 (3.37)
23	22.0 (1.5)	63.9 (4.0)	-9.78 (12.2)	2.65 (3.20)	20.2 (1.8)	62.1 (3.4)	-15.1 (14.8)	3.26 (2.97)	22.5 (1.8)	58.9 (3.8)	-11.2 (12.1)	3.07 (3.45)
24	21.9 (1.4)	62.5 (4.0)	-11.6 (12.3)	2.80 (3.25)	20.5 (1.3)	60.2 (4.1)	-15.4 (14.0)	3.19 (2.83)	22.6 (1.7)	57.9 (3.9)	-12.9 (12.1)	3.17 (3.45)
25	22.6 (1.1)	67.1 (4.7)	-17.5 (11.8)	4.65 (3.24)	21.6 (0.9)	65.9 (4.6)	-25.3 (13.4)	4.88 (2.61)	23.1 (1.1)	62.4 (4.2)	-19.2 (10.6)	5.02 (3.18)
26	22.3 (1.3)	67.4 (3.4)	-12.9 (13.1)	3.48 (3.33)	21.7 (0.9)	66.2 (3.8)	-16.0 (15.5)	3.31 (2.94)	22.6 (1.6)	62.0 (3.3)	-13.7 (12.7)	3.81 (3.41)
27	22.0 (1.5)	64.3 (3.5)	-12.4 (12.7)	3.46 (3.38)	21.3 (1.0)	61.7 (3.5)	-16.7 (15.4)	3.50 (3.10)	22.1 (1.6)	57.7 (4.0)	-14.1 (12.8)	3.95 (3.37)
28	22.0 (1.4)	61.4 (3.3)	-11.1 (12.2)	3.08 (3.34)	21.4 (1.2)	60.2 (2.9)	-14.5 (13.4)	3.26 (2.64)	22.0 (1.6)	54.4 (3.3)	-11.8 (12.4)	3.57 (3.46)
29	21.1 (1.5)	63.6 (3.1)	-8.78 (11.1)	2.65 (3.32)	19.9 (1.7)	61.8 (2.9)	-12.4 (13.2)	2.92 (2.81)	21.5 (1.7)	55.5 (3.3)	-7.92 (11.3)	2.55 (3.24)
30	20.5 (1.6)	64.4 (3.3)	-9.68 (11.4)	2.76 (3.35)	19.8 (2.1)	64.5 (2.9)	-13.2 (13.5)	2.83 (2.70)	21.3 (1.7)	57.3 (3.1)	-8.67 (11.3)	2.39 (3.16)
31	21.4 (1.4)	67.6 (3.3)	-13.6 (12.4)	3.88 (3.46)	21.5 (1.0)	67.8 (3.9)	-18.0 (15.2)	3.72 (2.94)	21.9 (1.5)	61.8 (3.5)	-12.1 (12.6)	3.43 (3.48)
Avg	21.9	64.7	-10.8	3.35	21.1	64.6	-17.4	3.95	22.7	59.8	-11.2	3.14
n	31	31	31	31	31	31	31	31	31	29	31	29
SD	0.9	3.0	3.44	1.49	1.0	3.6	6.24	1.96	0.8	3.4	3.88	1.29
Min	19.3	53.8	-20.5	1.46	19.3	53.0	-35.4	1.73	21.3	48.9	-19.2	1.31
Max	24.4	69.4	-5.77	8.59	23.4	71.5	-7.44	12.40	25.0	65.9	-4.82	7.28

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Table F3. Daily means (SD) of environmental parameters at Site NC3B for January, 2010.

Day	Barn 1				Barn 2				Barn 3			
	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,	Temp., °C	RH, %	ΔP, Pa	Airflow,
1	21.5 (1.3)	65.2 (3.0)	-12.5 (12.3)	3.68 (3.44)	21.5 (1.1)	66.1 (3.3)	-17.1 (15.3)	3.57 (3.02)	21.7 (1.5)	59.7 (2.6)	-10.9 (12.5)	3.22 (3.47)
2	19.2 (1.6)	62.2 (3.7)	-5.83 (9.34)	1.77 (2.84)	18.3 (1.8)	60.5 (2.7)	-11.9 (13.9)	2.57 (3.16)	21.2 (1.5)	56.9 (3.0)	-4.59 (9.79)	1.75 (3.05)
3	18.6 (2.2)	63.1 (2.7)	-6.30 (10.1)	1.90 (3.01)	15.2 (2.5)	59.0 (3.1)	-13.5 (14.4)	2.96 (3.21)	20.9 (1.8)	58.3 (2.4)	-5.35 (10.1)	1.90 (3.10)
4	18.9 (2.3)	64.1 (3.0)	-8.19 (11.5)	2.35 (3.39)	12.1 (2.8)	58.4 (2.5)	-20.0 (13.1)	4.48 (2.81)	21.4 (2.0)	60.3 (2.7)	-7.77 (11.1)	2.36 (3.19)
5	19.0 (2.2)	64.5 (2.7)	-8.26 (11.6)	2.34 (3.39)	11.9 (3.0)	58.0 (3.1)	-19.8 (12.6)	4.54 (2.69)	21.3 (1.9)	60.3 (3.2)	-7.90 (10.7)	2.35 (3.11)
6	19.7 (2.0)	62.6 (3.1)	-8.88 (11.7)	2.52 (3.43)	13.4 (3.0)	57.1 (1.9)	-19.8 (12.6)	4.53 (2.59)	21.5 (2.0)	58.9 (2.7)	-9.40 (11.4)	2.75 (3.27)
7	20.2 (2.1)	61.5 (4.0)	-10.1 (11.7)	3.00 (3.50)	15.5 (3.4)	56.2 (3.0)	-20.1 (12.9)	4.48 (2.53)	21.8 (1.9)	56.3 (3.7)	-11.0 (12.0)	3.17 (3.39)
8	20.7 (1.6)	61.5 (3.6)	-9.28 (11.3)	2.77 (3.39)	16.2 (2.1)	56.3 (2.2)	-20.0 (13.2)	4.44 (2.55)	21.6 (1.7)	56.1 (3.8)	-8.38 (11.6)	2.60 (3.27)
9	19.2 (2.2)	66.0 (3.7)	-8.21 (10.9)	2.38 (3.34)	12.8 (2.7)	59.0 (2.2)	-20.2 (14.0)	4.46 (2.68)	21.2 (1.9)	60.3 (4.0)	-7.62 (10.7)	2.20 (3.08)
10	19.6 (2.1)	66.4 (2.8)	-8.69 (10.7)	2.48 (3.35)	12.8 (3.2)	59.5 (2.6)	-19.9 (14.7)	4.45 (2.86)	21.4 (1.9)	60.5 (2.5)	-8.44 (10.8)	2.39 (3.21)
11	19.7 (2.6)	65.0 (4.9)	-10.3 (11.6)	3.01 (3.43)	13.6 (4.6)	58.9 (4.9)	-20.4 (16.1)	4.31 (3.00)	21.4 (1.9)	59.0 (5.0)	-10.1 (11.9)	2.74 (3.36)
12	21.2 (1.7)	62.5 (3.4)	-10.8 (11.6)	3.19 (3.42)	16.4 (2.3)	57.1 (2.6)	-19.6 (13.9)	4.42 (2.85)	21.6 (1.9)	55.7 (4.0)	-10.2 (12.0)	2.82 (3.35)
13	20.5 (2.8)	63.7 (4.8)	-9.81 (11.5)	3.07 (4.17)	15.3 (3.5)	59.3 (3.3)	-20.4 (12.8)	4.50 (2.57)	21.5 (2.0)	57.3 (3.3)	-11.1 (12.1)	2.96 (3.31)
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	19.8	63.7	-9.02	2.65	15.0	58.9	-18.7	4.13	21.4	58.4	-8.67	2.55
n	13	13	13	13	13	13	13	13	13	13	13	13
SD	0.9	1.6	1.73	0.51	2.6	2.5	2.71	0.64	0.2	1.8	1.99	0.43
Min	18.6	61.5	-12.5	1.77	11.9	56.2	-20.4	2.57	20.9	55.7	-11.1	1.75
Max	21.5	#NAME?	-5.83	3.68	21.5	#NAME?	-11.9	4.54	21.8	#NAME?	-4.59	3.22

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Table F4. PM10 concentrations and emissions.

Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for December, 2007.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1																
2																
3																
4		529 (419)	354 (165)	431 (288)												
5		425 (307)	334 (151)	427 (311)												
6		559 (444)	366 (240)	501 (355)												
7		553 (437)	374 (260)	459 (407)												
8		396 (286)	303 (167)	343 (295)												
9		278 (213)	219 (129)	281 (292)												
10	22 (5)	274 (279)	184 (115)	175 (241)	234 (337)	290 (417)	1520 (2190)	374 (539)	151 (127)	201 (170)	1010 (854)	241 (204)				
11	26 (9)	279 (298)	173 (112)	170 (224)	227 (323)	281 (400)	1470 (2090)	363 (517)	139 (110)	187 (147)	933 (735)	223 (176)	133 (172)	183 (237)	968 (1260)	212 (275)
12	17 (7)															
13	20 (6)															
14	27 (7)															
15	32 (11)		237 (151)	283 (385)					140 (112)	189 (150)	923 (736)	225 (179)	152 (200)	212 (278)	1100 (1440)	244 (320)
16	7 (3)		186 (144)	341 (412)					123 (104)	166 (140)	806 (683)	197 (167)				
17	10 (5)		230 (183)	518 (515)					136 (128)	183 (173)	885 (838)	217 (205)				
18	20 (5)		128 (175)	440 (460)					74 (112)	100 (151)	481 (728)	118 (179)				
19	17 (7)		76 (134)	489 (478)					44 (85)	59 (114)	282 (549)	70 (136)				
20	30 (6)		56 (197)						42 (111)	57 (150)	271 (717)	67 (178)				
21	29 (7)		204 (239)						135 (137)	220 (230)	1050 (1100)	216 (219)				
22	29 (13)	370 (183)	337 (163)	394 (154)	153 (136)	250 (222)	1280 (1140)	246 (218)	209 (136)	376 (245)	1800 (1180)	334 (218)	146 (130)	207 (184)	1040 (930)	234 (209)
23	13 (6)	233 (111)	192 (81)	276 (112)	143 (86)	233 (140)	1190 (714)	229 (137)	152 (67)	274 (120)	1310 (576)	243 (107)	164 (112)	233 (158)	1170 (794)	263 (179)
24	11 (4)	413 (166)	359 (134)	376 (137)	173 (150)	282 (245)	1430 (1250)	276 (240)								
25	23 (8)	444 (174)	367 (115)	436 (165)	160 (157)	261 (256)	1320 (1300)	255 (251)					171 (165)	243 (234)	1210 (1160)	273 (264)
26	14 (8)	396 (155)	325 (127)	404 (192)	131 (140)	214 (230)	1080 (1160)	209 (225)								
27	18 (6)	427 (203)	323 (119)	378 (198)	163 (162)	267 (265)	1350 (1340)	261 (259)	192 (128)	348 (231)	1640 (1090)	308 (204)	163 (160)	232 (228)	1150 (1120)	261 (256)
28	18 (8)	317 (155)	265 (134)	286 (147)	163 (110)	268 (181)	1350 (909)	262 (176)	216 (128)	391 (233)	1840 (1100)	345 (206)	159 (107)	258 (160)	1310 (801)	254 (171)
29	11 (3)	177 (93)	142 (95)	122 (111)	150 (104)	246 (171)	1230 (856)	240 (166)	157 (125)	286 (228)	1340 (1070)	252 (200)				
30	9 (4)	205 (131)	149 (83)	137 (98)	126 (95)	208 (156)	1040 (779)	202 (152)	130 (84)	236 (153)	1100 (715)	208 (134)	92 (59)	179 (113)	922 (584)	148 (94)
31	15 (9)	363 (198)	363 (311)	232 (176)	187 (143)	308 (235)	1530 (1170)	299 (229)	300 (335)	548 (612)	2550 (2850)	480 (536)				
Avg	19	369	250	343	167	259	1320	268	146	239	1140	234	148	218	1110	236
n	22	18	25	23	12	12	12	12	16	16	16	16	8	8	8	8
SD	7	111	96	116	32	29	153	52	63	126	584	100	24	26	119	38
Min	7	177	56	122	126	208	1040	202	42	57	271	67	92	179	922	148
Max	32	559	374	518	234	308	1530	374	300	548	2550	480	171	258	1310	273

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for January, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	12 (5)	460 (217)	411 (143)	309 (175)	205 (187)	337 (307)	1670 (1520)	327 (299)					149 (149)	292 (292)	1500 (1500)	238 (238)
2	22 (13)	590 (292)	480 (174)	400 (225)	194 (254)	320 (418)	1580 (2060)	310 (406)								
3	20 (5)	661 (353)	490 (256)	438 (325)	215 (312)	355 (514)	1750 (2530)	344 (499)								
4	25 (18)	629 (427)		390 (390)	219 (317)	361 (522)	1770 (2560)	350 (506)								
5	23 (10)	571 (374)			238 (283)	393 (467)	1920 (2280)	381 (453)								
6	13 (5)	377 (306)		259 (169)	221 (218)	364 (359)	1770 (1750)	353 (349)					137 (102)	274 (204)	1380 (1030)	219 (163)
7	8 (4)	315 (283)		257 (278)	204 (224)	337 (370)	1630 (1790)	327 (359)					157 (163)	316 (326)	1580 (1640)	252 (260)
8	9 (3)	349 (261)		248 (212)	253 (263)	418 (434)	2010 (2090)	405 (421)					209 (239)	419 (481)	2090 (2400)	334 (383)
9	10 (6)	269 (242)		213 (304)	204 (242)	337 (399)	1610 (1910)	327 (387)					180 (316)	361 (635)	1800 (3160)	287 (505)
10	20 (6)	316 (281)		251 (264)	190 (204)	755 (970)	4480 (6070)	303 (326)					161 (185)	323 (372)	1600 (1850)	257 (296)
11	14 (6)															
12	28 (10)															
13	38 (6)															
14	24 (13)															
15	17 (6)															
16	23 (10)															
17	17 (6)															
18	24 (8)															
19	27 (14)															
20	13 (4)															
21	9 (4)															
22	13 (5)															
23	21 (4)															
24	23 (6)															
25	17 (4)															
26	23 (5)															
27	21 (7)															
28	23 (6)															
29	17 (5)															
30	13 (4)															
31	14 (6)															
Avg	19	454	460	307	214	398	2020	343					165	331	1660	264
n	31	10	3	9	10	10	10	10	0	0	0	0	6	6	6	6
SD	7	140	35	77	19	122	830	30					23	48	231	37
Min	8	269	411	213	190	320	1580	303					137	274	1380	219
Max	38	661	490	438	253	755	4480	405					209	419	2090	334

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for February, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	14 (8)															
2	16 (12)															
3	21 (9)															
4	24 (7)															
5	16 (5)															
6	17 (6)															
7	10 (6)															
8	16 (5)															
9	27 (16)															
10	29 (35)															
11	17 (9)															
12	22 (4)															
13	9 (6)															
14	18 (5)															
15	22 (5)															
16	27 (6)															
17	16 (4)															
18	8 (5)															
19	7 (3)															
20	12 (6)															
21	16 (4)															
22	13 (6)															
23	22 (8)															
24	28 (3)															
25	25 (4)															
26	22 (12)															
27	7 (3)															
28	10 (4)															
29	13 (3)															
Avg	17															
n	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SD	7															
Min	7															
Max	29															

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for March, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	15 (4)															
2	13 (4)															
3	19 (6)															
4	20 (6)															
5	9 (5)															
6	16 (5)															
7	15 (6)															
8	14 (8)															
9	11 (4)															
10	14 (6)															
11	29 (9)															
12	25 (8)															
13	28 (10)															
14	32 (4)															
15	28 (10)															
16	14 (5)	370 (183)	217 (79)													
17	18 (5)	502 (262)	296 (103)		85 (193)	99 (226)	1760 (4010)	135 (309)	84 (125)	105 (157)	1810 (2700)	134 (200)				
18	16 (4)	298 (137)	196 (81)		114 (135)	133 (157)	2340 (2750)	183 (215)	78 (78)	98 (98)	1660 (1660)	125 (124)				
19	29 (16)	166 (103)	109 (39)		105 (91)	123 (106)	2120 (1840)	168 (145)	75 (51)	94 (64)	1570 (1070)	120 (81)				
20	16 (10)	286 (240)	193 (117)		118 (177)	138 (206)	2340 (3510)	188 (283)								
21	14 (4)	388 (325)	224 (111)		208 (282)	243 (330)	4070 (5520)	333 (451)								
22	25 (11)	248 (365)	152 (55)	258 (85)	149 (311)	174 (363)	2870 (6010)	238 (498)	111 (65)	139 (82)	2230 (1310)	177 (104)				
23	23 (8)	412 (174)	224 (89)	357 (131)	101 (166)	118 (194)	1930 (3160)	162 (265)	97 (101)	123 (128)	1930 (2010)	156 (162)	67 (108)	86 (139)	1520 (2460)	107 (173)
24	25 (12)	417 (148)	225 (96)	388 (154)	69 (126)	81 (147)	1300 (2370)	111 (202)								
25	24 (5)	418 (212)	226 (102)	371 (182)												
26	32 (6)	281 (165)	195 (82)	288 (100)	117 (150)	137 (175)	2140 (2740)	188 (240)					107 (98)	138 (126)	2340 (2150)	171 (157)
27	38 (5)	180 (81)	172 (84)	226 (96)	99 (102)	116 (119)	1770 (1820)	158 (162)	120 (96)	151 (121)	2230 (1790)	191 (153)	136 (118)	175 (151)	2930 (2530)	218 (188)
28	29 (6)	193 (117)	118 (63)	180 (88)	146 (154)	170 (180)	2570 (2720)	233 (246)	100 (98)	127 (124)	1840 (1800)	161 (157)	127 (91)	164 (117)	2700 (1930)	203 (146)
29	30 (9)	309 (172)	206 (120)	251 (154)	79 (117)	92 (137)	1370 (2040)	126 (188)	84 (89)	106 (113)	1510 (1610)	134 (143)	49 (80)	64 (103)	1040 (1680)	79 (128)
30	15 (4)	272 (120)	180 (76)	227 (146)	28 (64)	33 (75)	482 (1100)	45 (103)	54 (66)	68 (83)	950 (1170)	86 (106)	27 (60)	35 (78)	554 (1250)	43 (97)
31	20 (6)	154 (91)	106 (73)	140 (107)	55 (61)	65 (71)	931 (1030)	88 (97)	54 (60)	69 (75)	952 (1040)	87 (95)	55 (68)	71 (87)	1120 (1380)	88 (108)
Avg	21	306	190	269	105	123	2000	168	86	108	1670	137	81	104	1740	130
n	31	16	16	10	14	14	14	14	10	10	10	10	7	7	7	7
SD	7	101	49	78	43	50	849	68	21	26	426	33	39	50	848	63
Min	9	154	106	140	28	33	482	45	54	68	950	86	27	35	554	43
Max	38	502	296	388	208	243	4070	333	120	151	2230	191	136	175	2930	218

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for April, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	17 (8)	84 (71)	63 (53)	105 (77)	54 (67)	63 (78)	894 (1110)	86 (107)	38 (52)	48 (66)	653 (892)	61 (83)	72 (66)	92 (85)	1440 (1320)	114 (105)
2	22 (8)	157 (141)	122 (132)	196 (156)	98 (114)	114 (133)	1590 (1850)	156 (182)	88 (130)	111 (164)	1480 (2190)	140 (208)	139 (160)	179 (206)	2740 (3160)	222 (256)
3	19 (6)	198 (122)	172 (113)	246 (179)	96 (97)	112 (113)	1530 (1550)	153 (155)	84 (99)	106 (125)	1390 (1640)	134 (158)	99 (135)	128 (174)	1930 (2640)	159 (216)
4	18 (15)	135 (96)	104 (82)	165 (160)	83 (70)	97 (82)	1300 (1110)	132 (112)	80 (75)	102 (95)	1310 (1220)	128 (120)	112 (139)	145 (179)	2160 (2680)	179 (223)
5		114 (55)	72 (49)	83 (84)	65 (39)	76 (46)	1010 (603)	104 (62)								
6	14 (5)	195 (70)	153 (59)	123 (51)	86 (61)	101 (72)	1320 (927)	138 (98)	101 (49)	129 (63)	1590 (772)	162 (79)	57 (49)	74 (63)	1070 (913)	92 (78)
7	13 (5)	244 (115)	217 (68)	220 (102)	77 (92)	90 (108)	1150 (1380)	123 (148)	123 (84)	156 (107)	1900 (1290)	197 (134)	68 (85)	87 (110)	1240 (1560)	108 (136)
8	18 (4)	226 (84)	227 (77)	232 (84)	103 (86)	121 (101)	1510 (1260)	165 (137)	139 (83)	176 (105)	2100 (1250)	222 (132)	94 (73)	121 (95)	1690 (1330)	150 (117)
9	16 (5)	236 (78)	185 (66)	202 (89)	134 (78)	157 (92)	1930 (1130)	214 (125)	138 (76)	175 (97)	2040 (1130)	220 (122)	94 (63)	121 (81)	1670 (1120)	150 (100)
10	10 (4)	215 (68)	126 (46)	178 (74)	148 (74)	173 (87)	2090 (1050)	237 (119)	102 (47)	130 (60)	1490 (689)	164 (76)	117 (76)	151 (98)	2040 (1320)	187 (121)
11	8 (4)	179 (64)	74 (41)	123 (54)	171 (112)	201 (132)	2380 (1560)	274 (180)					113 (69)	146 (89)	1940 (1180)	181 (110)
12	17 (14)	165 (62)	90 (82)	100 (78)	154 (99)	181 (116)	2110 (1350)	247 (158)					82 (77)	106 (100)	1380 (1310)	131 (124)
13	18 (5)	344 (149)	258 (111)	175 (82)	242 (156)	284 (183)	3240 (2090)	387 (250)	227 (147)	289 (187)	3110 (2000)	364 (235)				
14	18 (9)	451 (189)	330 (135)	291 (127)	210 (194)	247 (228)	2760 (2540)	337 (310)	214 (141)	272 (179)	2870 (1890)	342 (225)	123 (128)	160 (166)	2020 (2090)	197 (205)
15	28 (9)	487 (185)	305 (145)	334 (188)	231 (200)	271 (235)	2970 (2570)	369 (320)	206 (136)	262 (174)	2700 (1790)	329 (218)	129 (126)	166 (163)	2060 (2020)	206 (202)
16	29 (9)	475 (184)	266 (118)	308 (135)	230 (195)	270 (229)	2900 (2470)	368 (312)	175 (129)	223 (165)	2250 (1670)	279 (207)	123 (105)	159 (136)	1940 (1660)	197 (168)
17	31 (13)	415 (186)	204 (97)	305 (205)	261 (213)	306 (250)	3230 (2630)	417 (340)	146 (110)	186 (140)	1840 (1390)	233 (176)	141 (132)	183 (170)	2190 (2040)	226 (211)
18	36 (8)	385 (221)	171 (99)	243 (148)	311 (261)	366 (306)	3780 (3160)	498 (417)	172 (136)	220 (173)	2140 (1680)	276 (217)	169 (151)	219 (196)	2570 (2300)	271 (242)
19	38 (32)	279 (189)	158 (92)	225 (149)	213 (238)	250 (280)	2540 (2840)	340 (381)	134 (129)	171 (164)	1630 (1570)	214 (206)	163 (141)	211 (183)	2440 (2110)	261 (226)
20	17 (6)	311 (166)	179 (91)	231 (112)	261 (183)	306 (216)	3050 (2140)	417 (294)	178 (145)	227 (185)	2120 (1720)	285 (231)	184 (132)	238 (170)	2690 (1920)	294 (211)
21	24 (9)	355 (110)	216 (61)	251 (72)	214 (110)	252 (129)	2460 (1260)	343 (175)	151 (63)	193 (81)	1770 (741)	242 (101)	145 (78)	188 (101)	2090 (1130)	233 (125)
22	17 (3)	273 (62)	175 (51)	189 (51)	185 (67)	218 (78)	2090 (748)	296 (106)	145 (62)	185 (79)	1660 (705)	232 (99)	130 (57)	168 (74)	1830 (803)	207 (91)
23	22 (6)	260 (85)	146 (46)	172 (48)	178 (68)	210 (79)	1970 (747)	285 (108)	112 (40)	143 (52)	1260 (454)	180 (65)	116 (55)	150 (71)	1610 (763)	186 (88)
24	23 (6)	285 (87)	182 (62)	184 (70)	214 (87)	252 (103)	2330 (947)	343 (140)	165 (90)	211 (114)	1820 (983)	264 (143)	123 (60)	159 (78)	1670 (817)	197 (96)
25	21 (4)	301 (139)	219 (97)	196 (83)	242 (142)	286 (167)	2590 (1510)	388 (227)	205 (123)	262 (157)	2210 (1330)	328 (197)	147 (92)	191 (120)	1970 (1230)	236 (148)
26	22 (6)	237 (109)	173 (54)	160 (62)	205 (87)	242 (102)	2150 (904)	328 (138)	192 (99)	246 (127)	2040 (1050)	308 (159)	132 (72)	171 (93)	1720 (938)	211 (115)
27	20 (9)	198 (104)	139 (67)	135 (67)	150 (97)	177 (115)	1550 (1000)	240 (156)	124 (80)	158 (102)	1290 (829)	198 (127)	101 (64)	131 (83)	1290 (822)	161 (102)
28	17 (4)	174 (81)	122 (50)	126 (62)	129 (73)	152 (86)	1300 (740)	206 (117)	98 (49)	126 (63)	1000 (505)	157 (79)	114 (77)	147 (100)	1430 (970)	182 (123)
29	20 (8)	371 (185)	270 (108)	301 (166)	226 (142)	266 (168)	2240 (1410)	361 (228)	184 (86)	235 (109)	1840 (856)	294 (137)	164 (120)	214 (155)	2040 (1480)	263 (191)
30	28 (8)	465 (213)	348 (135)	324 (197)	273 (213)	323 (252)	2670 (2080)	437 (341)	246 (115)	314 (147)	2420 (1130)	393 (184)	154 (136)	199 (177)	1870 (1660)	246 (218)
Avg	21	274	182	204	175	205	2150	280	147	187	1850	235	122	157	1880	194
n	29	30	30	30	30	30	30	30	27	27	27	27	28	28	28	28
SD	7	110	73	69	69	82	725	111	50	64	545	79	31	40	414	50
Min	8	84	63	83	54	63	894	86	38	48	653	61	57	74	1070	92
Max	38	487	348	334	311	366	3780	498	246	314	3110	393	184	238	2740	294

US EPA ARCHIVE DOCUMENT

Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for May, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	24 (5)	365 (225)	223 (105)	289 (140)	217 (190)	256 (224)	2080 (1820)	347 (303)	176 (96)	225 (122)	1700 (924)	281 (153)	176 (119)	228 (154)	2090 (1420)	281 (190)
2	27 (9)	237 (125)	205 (80)	275 (105)	190 (162)	225 (191)	1790 (1520)	304 (259)	197 (132)	253 (168)	1880 (1250)	316 (211)	205 (97)	266 (126)	2400 (1130)	328 (155)
3		297 (74)	258 (71)	287 (79)												
4	21 (8)	240 (85)	220 (66)	231 (65)	246 (147)	291 (173)	2250 (1340)	394 (235)	282 (164)	360 (210)	2590 (1500)	450 (263)	198 (81)	257 (106)	2240 (915)	317 (130)
5	23 (10)	227 (81)	198 (70)	194 (64)	158 (70)	187 (83)	1420 (633)	253 (113)	153 (76)	196 (97)	1390 (686)	246 (121)	154 (71)	200 (92)	1710 (785)	246 (113)
6	30 (10)	311 (81)	277 (87)	281 (111)	243 (110)	288 (130)	2150 (966)	390 (175)	243 (146)	311 (187)	2160 (1290)	389 (233)	221 (135)	287 (176)	2400 (1470)	353 (216)
7	26 (6)	295 (122)	263 (82)	250 (93)	260 (138)	308 (163)	2260 (1190)	416 (220)	283 (154)	362 (197)	2470 (1340)	453 (246)	211 (120)	273 (155)	2250 (1270)	337 (191)
8	24 (6)	206 (93)	187 (84)	194 (116)	174 (85)	205 (101)	1490 (730)	278 (136)	208 (81)	266 (103)	1790 (694)	332 (129)	143 (69)	186 (89)	1510 (727)	229 (110)
9	24 (8)	175 (65)	140 (63)	146 (64)	211 (126)	249 (150)	1780 (1060)	337 (202)	197 (113)	252 (145)	1670 (957)	315 (181)	151 (90)	196 (117)	1560 (929)	242 (144)
10	25 (9)	206 (94)	192 (89)	202 (98)	212 (126)	251 (149)	1760 (1040)	339 (201)	228 (137)	292 (176)	1900 (1140)	365 (219)	166 (102)	215 (132)	1680 (1030)	265 (163)
11	16 (7)	273 (198)	203 (115)	220 (139)	202 (151)	239 (179)	1660 (1240)	323 (242)	180 (89)	230 (113)	1480 (729)	288 (142)	133 (93)	173 (121)	1330 (933)	213 (149)
12	16 (15)	359 (191)	273 (128)	281 (144)	276 (182)	327 (215)	2230 (1470)	442 (291)	239 (140)	307 (179)	1940 (1140)	383 (224)	177 (108)	230 (140)	1740 (1060)	283 (172)
13	20 (12)	491 (238)	372 (174)	430 (207)	376 (225)	446 (266)	3000 (1790)	602 (359)	337 (187)	431 (240)	2690 (1500)	539 (300)	323 (215)	420 (279)	3120 (2070)	517 (344)
14	15 (5)	502 (239)	360 (146)	422 (213)	411 (268)	487 (317)	3230 (2110)	658 (429)	388 (181)	497 (231)	3060 (1420)	621 (289)	324 (204)	421 (265)	3080 (1940)	518 (327)
15	20 (8)	289 (124)	218 (91)	228 (82)	264 (138)	313 (163)	2050 (1070)	423 (221)	266 (143)	341 (184)	2070 (1110)	425 (229)	219 (82)	284 (107)	2050 (767)	350 (131)
16	22 (6)	250 (116)	174 (61)	204 (83)	275 (117)	326 (138)	2110 (893)	441 (187)	260 (117)	334 (151)	2000 (898)	416 (188)	264 (112)	343 (145)	2430 (1030)	422 (179)
17	24 (45)	487 (194)	371 (141)	412 (155)	443 (253)	524 (299)	3340 (1910)	708 (404)	423 (279)	542 (358)	3200 (2110)	676 (447)	361 (211)	468 (274)	3270 (1910)	577 (338)
18	28 (30)	374 (160)	292 (126)	304 (114)	371 (221)	440 (262)	2770 (1640)	594 (353)	402 (312)	516 (400)	3010 (2330)	644 (499)	272 (140)	354 (181)	2430 (1240)	436 (223)
19	23 (7)	365 (230)	261 (127)	361 (181)	278 (193)	329 (228)	2050 (1420)	445 (308)	356 (273)	456 (350)	2630 (2010)	569 (436)	332 (210)	432 (273)	2930 (1850)	532 (337)
20	39 (17)	301 (245)	239 (113)	249 (158)	201 (325)	239 (386)	1470 (2370)	322 (521)	315 (209)	405 (268)	2310 (1530)	505 (335)	224 (180)	291 (234)	1940 (1560)	358 (288)
21	24 (6)	451 (268)	298 (131)	298 (159)	407 (250)	482 (296)	2930 (1800)	651 (400)	356 (216)	457 (277)	2570 (1560)	569 (345)	259 (162)	337 (211)	2220 (1390)	415 (259)
22	27 (9)	432 (213)	372 (142)	377 (190)	439 (300)	520 (356)	3120 (2140)	702 (481)	443 (253)	568 (325)	3160 (1800)	709 (405)	353 (273)	459 (355)	2980 (2300)	565 (437)
23	44 (22)	422 (251)	374 (170)	362 (219)	407 (299)	482 (354)	2860 (2100)	651 (478)	429 (256)	551 (329)	3030 (1810)	687 (410)	345 (323)	449 (420)	2870 (2690)	552 (517)
24	30 (12)	375 (139)	384 (130)	308 (144)	302 (143)	358 (170)	2100 (998)	483 (229)	352 (160)	452 (205)	2460 (1120)	563 (256)	224 (142)	291 (185)	1840 (1170)	358 (228)
25	29 (18)	452 (148)	461 (183)	438 (145)	420 (174)	498 (207)	2900 (1200)	673 (279)	520 (318)	668 (408)	3600 (2190)	832 (508)	386 (208)	503 (270)	3140 (1680)	618 (332)
26	19 (7)	385 (177)	396 (164)	357 (217)	393 (140)	466 (166)	2680 (955)	628 (223)	508 (253)	653 (325)	3480 (1730)	813 (405)	329 (206)	429 (268)	2640 (1650)	527 (329)
27	17 (8)	282 (137)	291 (131)	227 (85)	331 (104)	393 (123)	2240 (702)	530 (166)	429 (190)	552 (244)	2920 (1290)	687 (304)	266 (112)	347 (146)	2110 (882)	426 (179)
28	16 (8)	347 (208)	326 (173)	255 (126)	304 (217)	362 (258)	2040 (1460)	487 (347)	320 (250)	411 (322)	2150 (1690)	511 (401)	206 (127)	269 (166)	1610 (998)	330 (204)
29	31 (13)	411 (196)	348 (190)	346 (159)	338 (212)	402 (251)	2250 (1410)	541 (338)	384 (325)	494 (418)	2560 (2170)	615 (520)	285 (177)	372 (231)	2200 (1370)	456 (283)
30	15 (6)	285 (220)	225 (136)	239 (130)	253 (169)	301 (201)	1670 (1120)	404 (271)	279 (164)	358 (211)	1840 (1090)	446 (263)	242 (114)	316 (149)	1850 (874)	387 (183)
31																
Avg	24	336	280	289	297	352	2270	475	316	405	2400	505	246	320	2260	394
n	29	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29
SD	7	91	79	77	86	102	546	137	99	128	595	159	72	94	543	115
Min	15	175	140	146	158	187	1420	253	153	196	1390	246	133	173	1330	213
Max	44	502	461	438	443	524	3340	708	520	668	3600	832	386	503	3270	618

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for June, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16	23 (8)	272 (149)	234 (131)	241 (129)	282 (153)	341 (185)	1690 (919)	451 (245)	397 (182)	516 (237)	2370 (1090)	635 (292)	311 (132)	410 (174)	2050 (873)	498 (212)
17	32 (12)	288 (164)	192 (75)	250 (92)	266 (143)	322 (173)	1590 (851)	426 (228)	339 (126)	441 (164)	2020 (752)	543 (202)	347 (144)	458 (190)	2280 (944)	556 (231)
18	43 (11)	508 (231)	391 (183)	444 (179)	392 (180)	476 (218)	2330 (1070)	628 (288)	552 (241)	718 (313)	3270 (1430)	883 (385)	462 (245)	610 (324)	3020 (1600)	740 (392)
19	35 (8)	489 (294)	407 (278)	399 (172)	371 (196)	450 (238)	2200 (1160)	593 (313)	497 (220)	646 (287)	2930 (1300)	795 (353)	438 (213)	578 (281)	2840 (1380)	701 (341)
20	32 (13)	417 (243)	356 (205)	373 (186)	345 (204)	420 (248)	2040 (1200)	553 (326)	431 (236)	561 (307)	2530 (1390)	690 (377)	318 (189)	421 (250)	2050 (1220)	509 (302)
21	21 (8)	335 (215)	264 (162)	293 (153)	296 (166)	360 (202)	1740 (977)	474 (265)	326 (176)	424 (229)	1910 (1030)	522 (281)	248 (131)	329 (173)	1590 (839)	397 (209)
22	23 (8)	325 (140)	234 (104)	274 (109)	356 (160)	433 (195)	2090 (940)	570 (257)	338 (161)	440 (210)	1970 (936)	541 (258)	281 (126)	373 (167)	1790 (805)	450 (202)
23	23 (11)	330 (129)	226 (100)	294 (209)	418 (220)	509 (269)	2440 (1290)	669 (353)	349 (118)	455 (153)	2020 (682)	559 (188)	295 (152)	392 (202)	1880 (968)	473 (243)
24	51 (67)	402 (214)	296 (153)	426 (291)	549 (315)	750 (436)	3610 (2100)	879 (504)	433 (262)	638 (398)	2830 (1760)	693 (420)	490 (349)	752 (578)	3580 (2750)	783 (559)
25	49 (30)	251 (236)	203 (164)	224 (156)	321 (346)	505 (545)	2450 (2640)	513 (554)	263 (203)	451 (349)	1990 (1540)	421 (325)	231 (266)	407 (468)	1920 (2210)	370 (426)
26	36 (9)	168 (89)	112 (56)	165 (72)	216 (165)	340 (259)	1640 (1250)	346 (263)	156 (112)	268 (193)	1180 (848)	250 (180)	196 (143)	345 (251)	1620 (1180)	313 (229)
27	31 (11)	178 (81)	103 (55)	169 (79)	235 (134)	369 (211)	1780 (1010)	376 (214)	153 (105)	263 (180)	1150 (788)	245 (167)	196 (120)	346 (212)	1620 (990)	314 (192)
28	30 (5)	158 (69)	103 (47)	153 (64)	225 (117)	355 (185)	1700 (885)	360 (188)	180 (108)	309 (186)	1350 (809)	287 (173)	181 (94)	319 (165)	1490 (768)	290 (150)
29	29 (16)	200 (99)	135 (76)	157 (85)	281 (179)	442 (281)	2110 (1340)	449 (286)	242 (175)	417 (303)	1810 (1310)	387 (281)	193 (157)	341 (277)	1570 (1280)	309 (251)
30	29 (8)	214 (95)	155 (63)	179 (76)	297 (181)	467 (286)	2220 (1360)	475 (290)	281 (169)	484 (291)	2090 (1260)	449 (270)	225 (131)	397 (232)	1830 (1070)	360 (210)
Avg	32	302	227	269	323	436	2110	517	329	469	2100	527	294	432	2080	471
n	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
SD	9	109	97	97	84	103	492	134	116	129	596	186	98	118	589	157
Min	21	158	103	153	216	322	1590	346	153	263	1150	245	181	319	1490	290
Max	51	508	407	444	549	750	3610	879	552	718	3270	883	490	752	3580	783

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for July, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	21 (10)	285 (188)	288 (192)	298 (178)	363 (253)	616 (421)	2950 (2010)	581 (405)	404 (314)	765 (616)	3310 (2670)	646 (503)	305 (208)	539 (368)	2470 (1680)	488 (333)
2	39 (42)	258 (212)	238 (209)	290 (196)	315 (280)	584 (518)	2810 (2500)	505 (447)	287 (265)	590 (544)	2560 (2360)	460 (424)	322 (308)	569 (543)	2590 (2480)	515 (492)
3	55 (89)	210 (201)	191 (199)	237 (179)	238 (239)	441 (443)	2110 (2130)	380 (383)	211 (214)	434 (439)	1870 (1900)	338 (342)	240 (207)	425 (365)	1930 (1660)	385 (331)
4	30 (14)	145 (84)	95 (61)	160 (103)	175 (159)	325 (295)	1560 (1410)	281 (254)	126 (134)	259 (275)	1110 (1180)	202 (214)	182 (169)	322 (298)	1450 (1350)	291 (270)
5																
6																
7																
8																
9	18 (8)	149 (94)	85 (36)	91 (84)	158 (78)	295 (145)	1390 (682)	253 (124)	106 (50)	218 (103)	920 (436)	169 (80)	111 (119)	206 (216)	910 (958)	178 (190)
10	21 (8)	146 (71)	91 (40)	136 (84)	173 (98)	322 (183)	1510 (859)	276 (157)	119 (77)	245 (159)	1030 (669)	190 (124)	147 (99)	278 (187)	1230 (824)	236 (159)
11																
12	40 (11)	184 (88)	137 (43)		184 (106)	344 (198)	1600 (923)	294 (169)	160 (97)	330 (200)	1380 (837)	256 (155)				
13	30 (6)	181 (106)	137 (67)		172 (98)	322 (184)	1500 (856)	275 (157)	155 (94)	321 (194)	1340 (806)	249 (150)				
14	28 (10)	146 (89)	105 (67)		130 (84)	244 (157)	1130 (730)	208 (134)	102 (78)	210 (161)	873 (668)	163 (125)				
15	34 (13)	135 (78)	93 (38)		132 (103)	246 (193)	1140 (891)	211 (165)	98 (66)	203 (136)	838 (559)	157 (105)				
16	42 (12)	197 (114)	136 (72)		193 (130)	361 (243)	1660 (1120)	308 (208)	139 (110)	288 (228)	1180 (934)	223 (176)				
17	47 (34)	244 (181)	165 (100)		251 (229)	470 (429)	2150 (1960)	401 (366)	173 (170)	449 (504)	1840 (2060)	277 (272)	217 (139)	409 (262)	1770 (1140)	347 (222)
18	16 (9)	126 (107)	91 (58)	118 (70)	121 (116)	226 (217)	1030 (990)	193 (186)	120 (97)	403 (324)	1640 (1320)	192 (154)	118 (53)	224 (100)	967 (435)	189 (85)
19	21 (9)	125 (70)	76 (42)	106 (42)	130 (89)	244 (167)	1110 (760)	208 (143)	89 (77)	299 (258)	1220 (1050)	143 (123)	108 (46)	204 (87)	880 (376)	172 (74)
20	32 (19)	126 (82)	83 (62)	121 (57)	140 (150)	263 (281)	1190 (1270)	224 (241)	90 (102)	303 (341)	1230 (1380)	145 (163)	130 (103)	247 (196)	1060 (843)	208 (165)
21	39 (7)	144 (70)	104 (55)	138 (55)	179 (120)	336 (225)	1510 (1010)	287 (193)	100 (73)	334 (244)	1350 (984)	159 (116)	153 (75)	291 (143)	1250 (614)	245 (121)
22	39 (13)	140 (82)	103 (53)	131 (44)	153 (167)	604 (642)	3080 (3310)	245 (267)	110 (108)	477 (491)	1930 (1990)	176 (172)	132 (83)	251 (159)	1070 (678)	211 (133)
23	27 (14)	72 (95)	80 (58)	125 (53)					70 (134)	412 (785)	1670 (3190)	113 (215)	102 (67)	195 (128)	829 (545)	163 (107)
24	27 (9)	41 (51)	69 (39)	130 (67)					71 (91)	414 (532)	1680 (2150)	113 (146)	122 (80)	232 (153)	986 (650)	195 (128)
25	33 (12)			163 (77)												
26	30 (5)			155 (85)												
27	26 (9)			98 (59)												
28	31 (8)			108 (60)												
29	24 (7)			80 (61)												
30																
31																
Avg	31	161	124	149	189	367	1730	302	144	366	1520	230	171	314	1390	273
n	24	19	19	18	17	17	17	17	19	19	19	19	14	14	14	14
SD	9	58	57	61	65	126	642	105	80	137	596	127	70	120	564	113
Min	16	41	69	80	121	226	1030	193	70	203	838	113	102	195	829	163
Max	55	285	288	298	363	616	3080	581	404	765	3310	646	322	569	2590	515

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for August, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1																
2																
3																
4																
5																
6																
7																
8																
9	24 (15)		150 (135)						112 (90)	152 (122)	2920 (2340)	179 (143)				
10	22 (8)	202 (88)	165 (94)		141 (62)	169 (75)	3360 (1480)	226 (100)	142 (69)	193 (93)	3610 (1740)	227 (110)	20 (26)			33 (42)
11	18 (10)	257 (103)	211 (106)		195 (113)	234 (135)	4550 (2630)	312 (181)	180 (73)	244 (99)	4480 (1810)	287 (116)	170 (157)			272 (251)
12	21 (5)	274 (141)	238 (161)		199 (109)	238 (131)	4550 (2510)	318 (175)	220 (154)	299 (209)	5370 (3760)	352 (246)	167 (108)	227 (147)	5100 (3310)	267 (173)
13	19 (11)	203 (52)	178 (51)	154 (48)	109 (38)	131 (46)	2460 (865)	175 (62)	111 (42)	151 (57)	2670 (1010)	178 (67)	83 (47)	113 (64)	2460 (1380)	133 (75)
14	15 (7)	216 (87)	201 (97)	162 (61)	140 (64)	168 (77)	3100 (1430)	225 (103)	163 (76)	222 (104)	3850 (1800)	261 (122)	117 (59)	159 (81)	3380 (1720)	187 (95)
15	19 (9)	179 (113)	155 (113)	170 (86)	130 (72)	156 (86)	2820 (1560)	208 (115)	135 (85)	184 (116)	3130 (1970)	216 (136)	134 (81)	183 (110)	3790 (2280)	215 (129)
16	30 (12)	172 (75)	124 (40)	138 (51)					104 (52)	141 (70)	2370 (1180)	166 (83)	91 (54)	124 (74)	2530 (1500)	146 (87)
17	36 (8)	370 (140)	158 (63)	138 (50)	271 (164)	325 (197)	5680 (3430)	434 (263)	112 (63)	153 (86)	2510 (1410)	179 (101)	77 (42)	105 (58)	2070 (1140)	123 (68)
18	29 (10)	215 (190)	185 (99)		155 (154)	186 (185)	3200 (3190)	248 (247)	185 (127)	253 (173)	4100 (2800)	297 (203)	148 (121)	201 (165)	3910 (3200)	236 (193)
19	21 (8)	158 (106)	158 (90)		124 (114)	149 (137)	2530 (2310)	199 (182)	175 (124)	239 (169)	3810 (2700)	280 (199)	104 (96)	142 (131)	2710 (2510)	167 (154)
20	21 (8)	140 (84)	136 (68)		109 (102)	130 (122)	2170 (2030)	174 (163)	143 (107)	196 (146)	3070 (2280)	229 (171)	160 (124)	218 (168)	4090 (3150)	256 (198)
21	27 (8)	139 (72)	119 (45)		102 (86)	123 (103)	2010 (1690)	163 (137)	127 (87)	173 (119)	2660 (1830)	203 (139)	96 (67)	130 (91)	2400 (1680)	153 (107)
22	19 (7)	163 (85)	157 (73)		130 (78)	156 (93)	2520 (1510)	208 (124)	166 (79)	227 (108)	3430 (1630)	266 (126)	137 (106)	187 (144)	3390 (2630)	219 (170)
23	16 (5)	149 (166)	160 (83)		118 (207)	141 (249)	2250 (3950)	188 (331)	184 (147)	251 (200)	3740 (2970)	294 (235)	153 (95)	209 (129)	3740 (2310)	245 (152)
24	15 (6)	146 (134)	142 (112)		118 (146)	142 (176)	2220 (2740)	189 (234)	152 (155)	208 (212)	3040 (3100)	244 (249)	157 (155)	214 (212)	3770 (3720)	252 (249)
25																
26																
27	17 (7)	94 (34)	89 (32)	92 (44)	82 (29)	99 (34)	1470 (515)	132 (46)	99 (36)	135 (49)	1880 (683)	158 (57)	72 (30)	98 (41)	1640 (693)	115 (48)
28	18 (7)	89 (20)	80 (20)	84 (26)	85 (30)	103 (36)	1500 (526)	137 (48)	101 (47)	138 (65)	1870 (881)	161 (76)	73 (31)	100 (42)	1640 (692)	117 (49)
29	24 (15)	116 (54)	102 (46)	116 (58)	107 (97)	129 (117)	1850 (1670)	171 (155)	108 (110)	147 (150)	1970 (2000)	172 (175)	94 (95)	129 (130)	2090 (2120)	151 (153)
30	23 (8)	105 (40)	101 (33)	106 (40)	95 (50)	115 (61)	1610 (852)	152 (80)	115 (57)	157 (78)	2060 (1020)	183 (92)	89 (44)	122 (60)	1950 (964)	143 (71)
31	30 (6)	120 (37)	115 (31)	135 (43)	117 (59)	141 (71)	1950 (979)	187 (94)	132 (48)	180 (66)	2310 (839)	211 (77)	131 (76)	179 (104)	2800 (1630)	209 (122)
Avg	22	175	149	130	133	160	2730	213	141	193	3090	226	114	158	2970	182
n	21	20	21	10	19	19	19	19	21	21	21	21	20	18	18	20
SD	5	67	40	28	45	53	1110	71	33	45	905	53	39	44	941	62
Min	15	89	80	84	82	99	1470	132	99	135	1870	158	20	98	1640	33
Max	36	370	238	170	271	325	5680	434	220	299	5370	352	170	227	5100	272

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for September, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	24 (8)	212 (69)	183 (50)	232 (66)	205 (102)	248 (123)	3360 (1670)	328 (163)	230 (138)	315 (189)	3950 (2360)	367 (220)	220 (128)	301 (174)	4640 (2690)	352 (204)
2	24 (8)	227 (111)	220 (100)	246 (97)	199 (101)	241 (122)	3200 (1630)	318 (162)	227 (124)	311 (170)	3830 (2090)	363 (198)	211 (114)	288 (155)	4380 (2360)	337 (182)
3	28 (6)	189 (92)	202 (97)	197 (87)	158 (83)	192 (100)	2500 (1310)	253 (132)	205 (107)	282 (147)	3400 (1770)	328 (171)	159 (84)	217 (115)	3250 (1730)	254 (135)
4	21 (10)	161 (91)	185 (94)	157 (75)	134 (77)	162 (93)	2080 (1200)	214 (123)	188 (97)	258 (133)	3050 (1570)	301 (155)	130 (75)	178 (103)	2620 (1510)	209 (120)
5	19 (12)	99 (86)	100 (92)	94 (83)												
6																
7																
8																
9																
10																
11	22 (9)	82 (15)	79 (23)	95 (25)	58 (19)	71 (24)	788 (259)	93 (31)	72 (30)	99 (41)	1000 (417)	115 (48)	65 (24)	89 (33)	1150 (426)	104 (39)
12	14 (8)	70 (20)	72 (24)	86 (28)	63 (28)	78 (34)	841 (364)	101 (44)	84 (32)	115 (44)	1150 (439)	134 (51)	73 (30)	100 (41)	1260 (522)	117 (48)
13	13 (7)	70 (23)	69 (31)	81 (39)	69 (32)	84 (39)	895 (413)	110 (51)	86 (53)	119 (73)	1160 (711)	138 (85)	70 (32)	96 (44)	1190 (542)	112 (51)
14	13 (5)	60 (15)	51 (14)	62 (30)	67 (31)	81 (38)	845 (392)	106 (50)	67 (33)	92 (46)	878 (433)	107 (53)	58 (42)	80 (58)	966 (699)	93 (67)
15	16 (10)	69 (21)	61 (21)	51 (19)	71 (34)	87 (41)	880 (419)	113 (54)	76 (54)	104 (74)	969 (686)	121 (86)	42 (29)	57 (40)	677 (471)	66 (46)
16	20 (8)	140 (45)	83 (37)	64 (30)	106 (53)	130 (65)	1300 (646)	170 (85)	70 (46)	96 (63)	878 (571)	112 (73)	35 (23)	48 (31)	555 (363)	56 (36)
17	20 (6)	181 (100)	106 (32)	80 (42)	124 (84)	152 (103)	1490 (1010)	199 (135)	79 (35)	109 (49)	968 (433)	126 (57)	43 (35)	59 (48)	672 (550)	69 (56)
18	30 (6)	151 (55)	138 (67)	90 (36)	111 (55)	135 (67)	1290 (639)	177 (87)	100 (67)	138 (92)	1200 (801)	160 (107)	52 (38)	72 (53)	801 (591)	84 (62)
19	21 (6)	143 (43)	115 (61)	82 (31)	103 (45)	126 (55)	1180 (512)	165 (71)	76 (63)	104 (87)	892 (743)	121 (101)	45 (28)	63 (38)	683 (415)	73 (44)
20	20 (5)	134 (68)	96 (51)	78 (37)	82 (59)	101 (72)	922 (665)	131 (94)	61 (47)	84 (64)	702 (539)	98 (75)	38 (31)	53 (42)	562 (451)	61 (49)
21	19 (5)	120 (55)	108 (46)	87 (35)	86 (51)	105 (62)	940 (558)	137 (81)	82 (52)	113 (72)	923 (587)	131 (84)	50 (27)	70 (38)	727 (392)	81 (44)
22	22 (6)	128 (62)	116 (63)	115 (54)	88 (53)	108 (66)	946 (575)	140 (85)	85 (66)	116 (91)	934 (732)	135 (106)	67 (42)	93 (58)	949 (590)	107 (67)
23	27 (9)	152 (62)	125 (53)	131 (74)	97 (67)	119 (82)	1020 (705)	155 (107)	91 (51)	125 (70)	980 (549)	145 (81)	67 (56)	93 (78)	936 (782)	108 (90)
24	24 (7)	206 (114)	170 (76)	156 (56)	99 (101)	122 (124)	1030 (1050)	159 (162)	119 (64)	163 (89)	1260 (686)	190 (103)	79 (56)	108 (77)	1070 (757)	126 (89)
25	9 (10)	154 (109)	122 (69)	112 (65)	61 (77)	75 (95)	617 (786)	97 (123)	84 (50)	115 (68)	870 (520)	134 (80)	57 (50)	79 (69)	758 (671)	91 (80)
26	10 (5)	74 (38)	78 (40)	69 (39)	57 (38)	70 (46)	567 (376)	91 (60)	74 (43)	102 (59)	756 (437)	118 (68)	47 (32)	65 (44)	613 (412)	75 (51)
27	18 (7)	87 (46)	101 (54)	91 (38)	65 (50)	80 (61)	639 (486)	104 (80)	91 (66)	125 (91)	913 (662)	146 (106)	61 (37)	84 (51)	775 (473)	97 (59)
28	23 (7)	103 (53)	117 (56)	107 (61)	73 (54)	90 (66)	703 (515)	117 (86)	100 (70)	138 (96)	988 (688)	161 (112)	69 (51)	95 (71)	864 (639)	110 (82)
29	22 (6)	117 (65)	117 (59)	104 (62)	86 (63)	106 (78)	810 (598)	137 (101)	107 (68)	147 (94)	1040 (657)	172 (109)	78 (69)	108 (96)	958 (849)	125 (111)
30	29 (8)	98 (52)	106 (57)	76 (37)	58 (49)	71 (60)	534 (452)	92 (78)	72 (59)	99 (81)	683 (560)	115 (94)	35 (30)	49 (41)	426 (356)	57 (47)
Avg	20	129	117	110	97	118	1220	155	105	145	1390	168	77	106	1310	123
n	25	25	25	25	24	24	24	24	24	24	24	24	24	24	24	24
SD	5	48	44	50	41	49	764	65	50	69	990	80	50	68	1150	80
Min	9	60	51	51	57	70	534	91	61	84	683	98	35	48	426	56
Max	30	227	220	246	205	248	3360	328	230	315	3950	367	220	301	4640	352

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for October, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	30 (11)	120 (89)	121 (90)	98 (70)	74 (80)	92 (98)	677 (725)	119 (128)	82 (95)	113 (131)	766 (887)	131 (152)	52 (57)	72 (80)	610 (675)	83 (92)
2	12 (6)	239 (137)	220 (113)	167 (90)	187 (110)	231 (136)	1670 (984)	299 (176)	184 (95)	253 (131)	1690 (873)	294 (152)				
3	13 (5)	231 (148)	231 (140)	179 (104)	163 (129)	201 (159)	1430 (1140)	260 (207)	179 (124)	247 (170)	1620 (1120)	287 (198)				
4	21 (6)	230 (164)	219 (136)	154 (94)	173 (139)	213 (172)	1490 (1200)	276 (222)	141 (120)	194 (166)	1250 (1070)	226 (192)	105 (77)	146 (106)	1170 (857)	169 (123)
5																
6																
7																
8																
9																
10																
11																
12																
13	6 (5)															
14	9 (5)															
15	13 (5)															
16	16 (6)															
17	18 (9)															
18	6 (5)															
19	9 (7)															
20	13 (6)	497 (135)	475 (149)	387 (164)	278 (191)	346 (238)	1920 (1320)	445 (306)	218 (125)	302 (172)	1580 (904)	349 (199)	158 (164)	221 (229)	1360 (1410)	253 (263)
21	16 (7)	420 (197)	419 (189)	335 (168)	266 (177)	331 (220)	1820 (1210)	425 (283)	238 (176)	329 (244)	1710 (1260)	380 (282)	175 (146)	245 (204)	1480 (1240)	281 (234)
22	20 (9)	418 (165)	454 (200)	343 (175)	274 (167)	341 (208)	1850 (1130)	438 (267)	207 (163)	287 (226)	1480 (1160)	332 (261)	168 (151)	235 (211)	1410 (1260)	269 (241)
23	19 (8)	380 (165)	399 (168)	260 (111)	235 (166)	294 (207)	1580 (1120)	377 (266)					125 (102)	175 (142)	1030 (837)	200 (163)
24	16 (6)	248 (136)	282 (166)	185 (115)	169 (111)	212 (139)	1130 (740)	271 (178)	156 (138)	216 (191)	1090 (966)	249 (221)	98 (86)	136 (120)	794 (703)	156 (138)
25	11 (5)	138 (78)	136 (114)	101 (59)	122 (89)	153 (112)	807 (588)	196 (143)	113 (122)	156 (169)	783 (848)	181 (196)	72 (47)	100 (66)	576 (377)	115 (75)
26	15 (5)	261 (125)	264 (140)	202 (112)	204 (112)	256 (141)	1330 (732)	327 (180)	159 (124)	220 (171)	1090 (849)	254 (198)	135 (87)	189 (121)	1070 (690)	216 (139)
27	14 (6)	364 (206)	352 (190)	262 (167)	260 (191)	327 (239)	1690 (1230)	417 (305)	174 (136)	241 (188)	1190 (926)	278 (217)				
28	8 (6)	426 (246)	424 (226)	323 (230)	268 (235)	336 (295)	1720 (1510)	428 (376)	167 (112)	231 (155)	1130 (755)	266 (179)				
29	11 (7)	423 (247)	495 (267)	309 (198)	262 (230)	330 (289)	1670 (1460)	419 (367)	192 (156)	267 (216)	1290 (1050)	307 (250)	156 (162)	218 (226)	1200 (1240)	249 (259)
30	17 (6)	449 (352)	446 (348)	312 (213)	287 (300)	362 (378)	1820 (1900)	460 (481)	192 (249)	267 (346)	1280 (1660)	308 (399)	147 (163)	206 (228)	1120 (1240)	235 (262)
31	14 (5)	398 (292)	381 (282)	314 (213)	250 (248)	316 (313)	1570 (1560)	401 (397)	189 (238)	262 (331)	1250 (1570)	303 (381)	159 (160)	222 (223)	1200 (1200)	254 (256)
Avg	14	328	332	246	217	271	1510	347	173	239	1280	276	129	180	1080	207
n	23	16	16	16	16	16	16	16	15	15	15	15	12	12	12	12
SD	5	113	118	88	61	77	352	98	38	53	284	61	38	53	280	61
Min	6	120	121	98	74	92	677	119	82	113	766	131	52	72	576	83
Max	30	497	495	387	287	362	1920	460	238	329	1710	380	175	245	1480	281

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for November, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	17 (5)	421 (311)	341 (218)	331 (281)	283 (289)	357 (365)	1770 (1810)	452 (463)	185 (189)	257 (263)	1210 (1240)	296 (303)	188 (214)	263 (299)	1410 (1590)	301 (342)
2	24 (9)	361 (232)	451 (201)	372 (197)	248 (213)	314 (270)	1540 (1320)	397 (341)	256 (197)	356 (273)	1660 (1280)	410 (315)	182 (186)	254 (260)	1340 (1380)	291 (297)
3	31 (8)	323 (104)	348 (110)	231 (80)	231 (94)	292 (120)	1420 (582)	369 (151)					117 (73)	164 (101)	859 (531)	187 (116)
4	18 (8)	245 (77)	292 (121)	243 (102)	214 (72)	272 (91)	1310 (440)	343 (115)	266 (136)	370 (189)	1700 (872)	426 (218)	173 (96)	241 (134)	1250 (697)	276 (153)
5	19 (7)	257 (72)	289 (92)	265 (71)	246 (78)	312 (98)	1500 (471)	393 (124)	290 (101)	402 (140)	1840 (640)	463 (161)	211 (66)	296 (92)	1520 (471)	338 (105)
6	11 (6)	369 (194)	406 (261)	394 (241)	359 (174)	455 (221)	2170 (1050)	574 (279)	413 (306)	574 (425)	2600 (1930)	661 (490)	345 (255)	483 (357)	2470 (1820)	553 (409)
7	19 (6)	340 (245)	345 (212)	342 (218)	298 (187)	379 (237)	1790 (1120)	478 (299)	306 (183)	424 (254)	1910 (1140)	489 (293)	252 (169)	353 (236)	1790 (1200)	403 (270)
8					251 (191)	319 (242)	1500 (1140)	402 (305)								
9					286 (245)	363 (311)	1690 (1450)	457 (392)								
10	20 (6)	489 (204)	519 (245)	476 (228)	369 (227)	469 (289)	2170 (1340)	590 (364)	311 (203)	715 (467)	3290 (2150)	497 (325)	293 (217)	410 (304)	2030 (1510)	469 (347)
11	30 (9)	493 (263)	548 (249)	489 (267)	347 (249)	442 (316)	2040 (1460)	556 (398)	305 (231)	702 (530)	3210 (2420)	489 (369)	275 (225)	385 (316)	1900 (1560)	439 (360)
12	29 (9)	432 (260)	487 (280)	386 (212)	324 (248)	412 (316)	1890 (1450)	518 (397)	336 (253)	772 (583)	3510 (2650)	537 (405)	244 (170)	343 (239)	1680 (1170)	391 (273)
13	16 (9)	236 (168)	243 (197)	194 (140)	200 (141)	255 (180)	1160 (820)	321 (226)	209 (202)	482 (465)	2170 (2100)	335 (323)	144 (108)	202 (151)	984 (734)	231 (172)
14	16 (8)	168 (127)	205 (131)	239 (432)	158 (132)	201 (167)	907 (758)	252 (211)	204 (145)	470 (333)	2110 (1490)	326 (231)	188 (390)	264 (547)	1280 (2640)	301 (624)
15	9 (7)	127 (153)	174 (178)	254 (792)	141 (178)	179 (227)	805 (1020)	225 (285)	204 (216)	471 (499)	2100 (2220)	327 (346)	231 (607)	325 (852)	1560 (4080)	370 (971)
16	4 (6)	507 (246)	661 (326)	504 (651)	383 (232)	488 (296)	2180 (1320)	613 (372)	423 (328)	977 (757)	4330 (3350)	677 (524)	332 (379)	466 (532)	2220 (2540)	531 (606)
17	13 (6)	592 (167)	860 (255)	539 (189)	394 (225)	502 (286)	2230 (1270)	631 (359)	454 (276)	1050 (638)	4620 (2810)	726 (442)	285 (200)	401 (281)	1900 (1330)	457 (320)
18	11 (6)	555 (265)	895 (510)	666 (387)	391 (273)	606 (433)	2700 (1930)	625 (438)	342 (214)	790 (494)	3460 (2170)	547 (342)				
19	11 (5)	356 (257)	542 (325)	533 (233)	208 (229)	417 (458)	1860 (2050)	333 (367)	182 (164)	421 (381)	1840 (1660)	291 (263)	263 (248)	369 (349)	1730 (1640)	421 (397)
20	19 (8)	400 (208)	385 (153)	635 (393)	236 (206)	473 (412)	2100 (1830)	378 (329)	153 (151)	355 (349)	1540 (1510)	245 (241)	348 (359)	488 (504)	2280 (2350)	556 (574)
21	22 (23)	350 (180)	390 (157)	364 (219)	213 (176)	427 (352)	1890 (1560)	341 (282)								
22		397 (287)	450 (177)	446 (293)	240 (265)	480 (530)	2110 (2330)	383 (424)	130 (112)	301 (259)	1290 (1110)	208 (179)	247 (250)	347 (351)	1600 (1620)	395 (400)
23	15 (7)	415 (204)	483 (178)	485 (249)	225 (207)	450 (414)	1970 (1810)	359 (331)	143 (171)	333 (397)	1420 (1700)	229 (274)	230 (219)	322 (307)	1480 (1410)	367 (350)
24		405 (166)	490 (194)	606 (312)	223 (171)	447 (343)	1950 (1500)	357 (274)	179 (183)	416 (426)	1770 (1810)	287 (293)	282 (237)	396 (333)	1810 (1530)	451 (380)
25	13 (6)	366 (121)	425 (154)	648 (325)	228 (140)	457 (281)	1980 (1220)	364 (224)					375 (287)	613 (504)	2830 (2340)	599 (459)
26	14 (6)	458 (141)	526 (194)	783 (900)	233 (193)	467 (389)	2020 (1680)	372 (310)	150 (207)	349 (482)	1470 (2030)	240 (331)	393 (726)	754 (1390)	3510 (6490)	629 (1160)
27		391 (129)	462 (197)	314 (157)	211 (158)	424 (318)	1820 (1370)	337 (253)	160 (177)	372 (412)	1560 (1730)	256 (284)	145 (137)	279 (262)	1290 (1220)	232 (219)
28	20 (5)	351 (128)	395 (182)	309 (150)	219 (146)	441 (294)	1890 (1260)	350 (234)	193 (163)	449 (380)	1880 (1590)	309 (261)	174 (140)	334 (269)	1550 (1240)	278 (223)
29	23 (6)	388 (177)	397 (175)	321 (194)	211 (189)	426 (380)	1820 (1620)	338 (302)	158 (183)	368 (426)	1540 (1780)	253 (293)	152 (169)	293 (325)	1350 (1500)	243 (270)
30	10 (6)	294 (135)	296 (173)	245 (392)	196 (127)	395 (255)	1680 (1090)	314 (203)	164 (138)	380 (322)	1580 (1340)	262 (221)				
Avg	17	374	439	415	259	397	1800	414	245	502	2220	391	243	362	1750	388
n	25	28	28	28	30	30	30	30	25	25	25	25	25	25	25	25
SD	7	105	163	153	68	93	395	109	93	207	934	149	75	126	571	120
Min	4	127	174	194	141	179	805	225	130	257	1210	208	117	164	859	187
Max	31	592	895	783	394	606	2700	631	454	1050	4620	726	393	754	3510	629

US EPA ARCHIVE DOCUMENT

Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for December, 2008.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	9 (5)	511 (236)	531 (256)	438 (462)	339 (239)	683 (482)	2900 (2050)	542 (382)					308 (340)	595 (657)	2720 (3000)	493 (544)
2	12 (6)	586 (243)	610 (281)	454 (280)	331 (288)	668 (580)	2830 (2460)	530 (460)	196 (278)	457 (647)	1890 (2670)	314 (445)	245 (254)	474 (490)	2160 (2230)	392 (406)
3		558 (255)	685 (339)	498 (339)	311 (282)	627 (569)	2640 (2400)	497 (451)	210 (298)	489 (694)	2010 (2860)	336 (477)	225 (264)	435 (510)	1970 (2310)	360 (422)
4	15 (4)	457 (252)	579 (358)	434 (277)	273 (247)	551 (498)	2320 (2090)	436 (395)	203 (260)	474 (606)	1940 (2490)	325 (416)	232 (233)	448 (451)	2030 (2040)	371 (373)
5	24 (8)	463 (215)	463 (234)	400 (255)	270 (235)	545 (474)	2280 (1990)	431 (375)					258 (220)	500 (425)	2250 (1920)	413 (351)
6	17 (7)	555 (224)	578 (288)	530 (253)	312 (259)	631 (523)	2630 (2180)	499 (414)	207 (258)	483 (601)	1970 (2450)	331 (412)	273 (250)	529 (484)	2380 (2180)	437 (400)
7	15 (6)	702 (190)	699 (212)	659 (189)	333 (299)	675 (606)	2810 (2520)	533 (479)	160 (244)	374 (569)	1520 (2310)	257 (390)	294 (264)	569 (512)	2550 (2290)	470 (423)
8		664 (297)	714 (264)	604 (232)	315 (326)	638 (660)	2650 (2740)	504 (522)	175 (279)	408 (651)	1650 (2640)	280 (446)	240 (252)	466 (489)	2080 (2180)	385 (403)
9	13 (7)	352 (170)	410 (235)	358 (186)	237 (151)	481 (306)	1990 (1270)	380 (242)	183 (155)	427 (361)	1730 (1460)	293 (248)	220 (157)	427 (305)	1900 (1360)	352 (251)
10	11 (8)	187 (77)	158 (96)	140 (76)	176 (77)	356 (156)	1470 (643)	281 (123)	133 (80)	311 (187)	1250 (753)	213 (128)	137 (85)	265 (164)	1180 (728)	218 (135)
11	10 (10)	105 (61)	133 (78)	92 (66)	104 (64)	211 (130)	865 (536)	166 (103)	106 (60)	247 (140)	990 (563)	169 (96)	89 (71)	173 (137)	762 (605)	142 (113)
12	6 (7)	366 (148)	427 (181)	392 (164)	272 (130)	551 (262)	2250 (1070)	435 (207)					287 (137)	559 (266)	2460 (1170)	459 (219)
13		593 (210)	654 (250)	616 (258)												
14	14 (6)	414 (212)	467 (291)	415 (226)	238 (198)	482 (401)	1960 (1630)	381 (317)	191 (202)	446 (472)	1770 (1870)	305 (323)	222 (202)	433 (393)	1890 (1720)	355 (322)
15	14 (5)	241 (129)	237 (158)	256 (133)	195 (112)	395 (226)	1600 (915)	312 (179)	183 (141)	429 (331)	1700 (1310)	294 (226)	206 (131)	402 (255)	1740 (1110)	329 (209)
16	10 (7)	302 (252)	295 (185)	344 (246)	215 (211)	435 (427)	1750 (1720)	344 (338)	187 (161)	437 (377)	1720 (1480)	299 (258)	214 (213)	417 (416)	1800 (1800)	342 (341)
17	8 (7)	267 (155)	263 (164)	315 (230)	213 (152)	431 (308)	1730 (1230)	341 (243)								
18	20 (15)	171 (93)	206 (140)	169 (212)	128 (88)	259 (177)	1030 (709)	204 (140)	138 (115)	323 (269)	1260 (1050)	220 (184)	117 (163)	303 (421)	1290 (1790)	188 (261)
19	12 (5)	178 (82)	207 (122)	149 (621)	161 (76)	326 (154)	1300 (612)	258 (122)	157 (111)	368 (259)	1430 (1000)	252 (177)	122 (545)	314 (1410)	1320 (5940)	195 (872)
20	16 (7)															
21	13 (15)															
22																
23																
24																
25	9 (5)															
26	10 (5)															
27	9 (5)															
28	8 (5)															
29	7 (6)	531 (667)		16 (33)												
30	7 (5)	279 (151)	122 (78)	12 (80)	126 (120)	150 (142)	3400 (3210)	202 (191)					2 (36)			4 (57)
31																
Avg	12	404	422	347	239	479	2130	383	174	405	1630	278	205	430	1910	328
n	24	21	20	21	19	19	19	19	14	14	14	14	18	17	17	18
SD	4	172	200	188	74	159	673	118	30	69	295	48	79	110	511	126
Min	6	105	122	12	104	150	865	166	106	247	990	169	2	173	762	4
Max	24	702	714	659	339	683	3400	542	210	489	2010	336	308	595	2720	493

US EPA ARCHIVE DOCUMENT

Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for January, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1		432 (227)	380 (173)	486 (281)					97 (109)	118 (133)	2520 (2830)	156 (175)				
2		297 (114)	219 (92)	232 (114)												
3	13 (8)	378 (232)	131 (82)	228 (98)	134 (204)	160 (243)	3250 (4920)	215 (326)								
4	17 (5)	260 (134)	180 (82)	196 (92)	84 (121)	100 (145)	1990 (2880)	134 (194)								
5	13 (6)	208 (129)	197 (108)	164 (127)	96 (110)	114 (132)	2210 (2550)	153 (176)								
6	13 (5)	146 (104)	207 (103)	158 (79)	81 (89)	96 (106)	1830 (2020)	129 (142)								
7	5 (7)	167 (152)	244 (130)	204 (139)	68 (98)	81 (117)	1530 (2180)	109 (156)	86 (83)	105 (101)	1970 (1880)	138 (132)				
8	7 (5)	315 (161)	384 (201)	384 (190)	87 (133)	104 (159)	1910 (2920)	139 (212)								
9	11 (4)	341 (173)	350 (139)	403 (187)	100 (161)	120 (193)	2160 (3480)	160 (258)	66 (60)	80 (73)	1440 (1320)	105 (96)				
10	9 (5)	239 (118)	282 (158)	283 (156)	82 (125)	98 (150)	1750 (2660)	131 (200)								
11	11 (7)		407 (281)	358 (249)	134 (239)	161 (287)	2800 (5000)	214 (382)								
12	17 (5)	1280 (510)	1130 (489)	1220 (568)	267 (458)	320 (550)	5510 (9460)	427 (733)								
13	17 (6)	1090 (414)	948 (312)	1030 (383)	225 (384)	270 (462)	4570 (7810)	360 (615)	146 (240)	178 (293)	3000 (4940)	234 (384)				
14	18 (8)	1190 (533)	1090 (367)	1050 (310)	250 (463)	300 (556)	5000 (9260)	399 (740)	178 (195)	218 (238)	3600 (3950)	285 (312)				
15	13 (5)	988 (449)	1230 (542)	989 (298)	230 (410)	276 (493)	4530 (8090)	367 (656)								
16		1070 (512)	1630 (610)	1300 (461)	247 (424)	297 (511)	4800 (8250)	395 (679)								
17		1110 (544)	1300 (401)	1180 (395)	266 (468)	321 (564)	5090 (8950)	426 (749)	287 (342)	352 (419)	5550 (6600)	460 (547)				
18	11 (4)	776 (817)	710 (483)	577 (397)	180 (405)	216 (488)	3380 (7620)	287 (648)								
19	10 (5)	516 (210)	363 (176)	254 (94)	107 (184)	129 (222)	1980 (3390)	171 (294)	90 (86)	111 (105)	1680 (1590)	144 (137)				
20		588 (210)	408 (146)	266 (90)	110 (186)	133 (224)	2000 (3380)	176 (298)	99 (87)	121 (107)	1810 (1590)	158 (139)				
21		686 (278)	528 (212)	329 (104)	130 (232)	157 (280)	2330 (4150)	208 (372)	108 (145)	133 (178)	1950 (2610)	173 (232)				
22		494 (200)	477 (196)	278 (98)	117 (198)	141 (239)	2050 (3480)	187 (316)								
23	24 (6)	369 (183)	436 (179)	244 (112)	106 (171)	128 (207)	1820 (2950)	169 (274)								
24	19 (7)	332 (189)	373 (138)	205 (95)	112 (175)	135 (211)	1890 (2950)	179 (279)								
25																
26	19 (7)	341 (232)	493 (223)	272 (159)	98 (181)	118 (219)	1600 (2960)	157 (290)	105 (141)	129 (173)	1720 (2310)	168 (225)				
27	18 (9)	229 (206)	326 (144)	144 (99)	89 (150)	108 (181)	1420 (2400)	142 (240)								
28	11 (8)	147 (147)	179 (137)	105 (75)	85 (108)	102 (130)	1330 (1690)	135 (172)	84 (88)	104 (109)	1330 (1390)	135 (141)				
29	11 (6)	303 (270)	253 (180)	260 (173)	129 (206)	156 (250)	1980 (3170)	206 (330)	65 (98)	81 (120)	1010 (1510)	104 (156)				
30	13 (8)	321 (259)	269 (149)		119 (202)	144 (244)	1790 (3040)	190 (323)								
31	14 (20)	300 (234)	331 (175)	354 (202)	94 (175)	114 (211)	1390 (2580)	150 (279)								
Avg	14	514	515	454	137	164	2640	218	118	144	2300	188				
n	23	29	30	29	28	28	28	28	12	12	12	12	0	0	0	0
SD	4	344	383	362	62	75	1290	100	60	73	1200	95				
Min	5	146	131	105	68	81	1330	109	65	80	1010	104				
Max	24	1280	1630	1300	267	321	5510	427	287	352	5550	460				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for February, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	13 (6)	233 (212)	292 (146)	297 (173)	116 (173)	141 (209)	1680 (2500)	186 (276)								
2	15 (5)	219 (261)	255 (175)	333 (221)	130 (181)	157 (219)	1840 (2560)	208 (289)								
3	8 (5)	210 (255)	264 (228)	365 (217)	90 (155)	108 (188)	1240 (2140)	143 (248)	80 (112)	99 (138)	1110 (1560)	128 (179)				
4	10 (5)	375 (273)	316 (185)	475 (239)	88 (157)	106 (190)	1190 (2130)	141 (251)								
5		419 (159)	334 (134)	553 (179)	74 (125)	89 (152)	977 (1660)	118 (200)	80 (94)	99 (116)	1070 (1250)	128 (150)				
6		387 (136)	312 (128)	547 (210)	94 (143)	114 (174)	1220 (1860)	150 (229)								
7	29 (8)	361 (131)	244 (98)	453 (182)	132 (146)	160 (177)	1670 (1850)	211 (233)	97 (104)	120 (128)	1240 (1320)	155 (166)				
8	26 (9)	337 (149)	203 (63)	356 (151)	144 (149)	175 (181)	1790 (1860)	230 (238)	110 (98)	136 (122)	1370 (1220)	176 (157)				
9	26 (11)	366 (236)	212 (91)	340 (167)	162 (189)	197 (230)	1980 (2310)	259 (302)	95 (97)	118 (120)	1170 (1180)	152 (154)	187 (139)	237 (177)	2490 (1860)	299 (223)
10	20 (8)	166 (95)	163 (89)	250 (133)	73 (73)	88 (88)	867 (868)	116 (116)	78 (70)	97 (87)	935 (839)	125 (112)	161 (107)	205 (136)	2110 (1400)	258 (171)
11	13 (6)	169 (103)	123 (65)	237 (129)	104 (81)	126 (98)	1210 (946)	166 (129)	77 (60)	96 (74)	902 (703)	123 (96)	176 (123)	224 (156)	2260 (1570)	282 (196)
12	13 (5)	262 (157)	155 (87)	312 (190)	154 (129)	188 (157)	1760 (1470)	247 (206)	97 (73)	120 (91)	1110 (838)	154 (117)	229 (165)	291 (210)	2870 (2070)	366 (264)
13	13 (8)	371 (239)	193 (101)	387 (208)	188 (186)	229 (226)	2110 (2080)	301 (297)	102 (105)	127 (130)	1150 (1180)	164 (168)				
14	16 (6)	390 (238)	182 (88)	365 (213)	162 (185)	197 (225)	1780 (2030)	259 (296)	49 (58)	62 (72)	546 (639)	79 (93)				
15	20 (6)	621 (443)	310 (164)	451 (240)	202 (296)	246 (360)	2170 (3180)	324 (474)	92 (111)	114 (138)	988 (1190)	146 (177)				
16	19 (5)	788 (311)	403 (152)	530 (161)	183 (283)	223 (344)	1920 (2970)	293 (452)	107 (114)	133 (142)	1130 (1210)	171 (182)				
17		673 (262)	504 (207)	647 (221)	207 (276)	252 (336)	2130 (2850)	331 (442)	149 (169)	185 (210)	1540 (1750)	238 (270)				
18	10 (6)	396 (210)	352 (172)	383 (224)	167 (172)	204 (210)	1690 (1740)	267 (275)	145 (113)	180 (142)	1470 (1160)	231 (182)				
19	10 (6)	446 (280)	335 (166)	287 (165)	264 (221)	322 (269)	2620 (2180)	423 (354)	218 (142)	272 (177)	2170 (1420)	348 (227)	188 (122)	241 (157)	2050 (1330)	300 (196)
20																
21		510 (276)	485 (156)	461 (201)												
22																
23																
24																
25																
26																
27																
28	12 (8)	460 (116)	419 (102)		262 (130)	320 (159)	2190 (1090)	419 (208)	233 (127)	291 (159)	1970 (1080)	372 (203)				
Avg	16	388	288	401	150	182	1700	240	113	141	1240	181	188	240	2350	301
n	17	21	21	20	20	20	20	20	16	16	16	16	5	5	5	5
SD	6	158	103	107	55	68	445	89	49	61	388	78	22	29	298	36
Min	8	166	123	237	73	88	867	116	49	62	546	79	161	205	2050	258
Max	29	788	504	647	264	322	2620	423	233	291	2170	372	229	291	2870	366

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for March, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	8 (5)	799 (334)	567 (200)		225 (289)	275 (354)	1850 (2390)	360 (463)	215 (189)	269 (236)	1790 (1570)	345 (302)				
2	11 (6)	701 (343)	621 (288)		210 (295)	257 (361)	1700 (2390)	335 (472)	274 (231)	342 (290)	2240 (1900)	438 (370)				
3		646 (246)	708 (273)		191 (258)	234 (316)	1520 (2050)	306 (413)	288 (254)	360 (317)	2320 (2050)	460 (406)				
4		756 (361)	629 (237)		290 (343)	355 (420)	2270 (2690)	464 (550)	231 (229)	290 (288)	1840 (1830)	370 (367)				
5	12 (5)	618 (400)	545 (357)		253 (291)	310 (356)	1950 (2250)	405 (466)	274 (243)	343 (305)	2150 (1910)	438 (389)				
6	14 (7)	350 (199)	322 (178)		232 (174)	284 (213)	1760 (1330)	371 (279)	276 (217)	347 (273)	2130 (1680)	442 (347)				
7	22 (8)	314 (175)	275 (158)		265 (158)	324 (194)	1980 (1190)	424 (253)	290 (184)	365 (232)	2210 (1410)	464 (295)				
8	24 (6)	372 (132)	296 (125)		383 (219)	468 (268)	2820 (1610)	612 (351)	444 (348)	559 (438)	3340 (2620)	710 (557)				
9	21 (7)	503 (157)	407 (123)		612 (383)	749 (469)	4450 (2780)	979 (613)	558 (325)	703 (409)	4150 (2410)	893 (520)				
10	25 (9)	662 (317)	552 (249)		508 (315)	622 (386)	3650 (2270)	813 (505)	457 (281)	576 (354)	3350 (2060)	731 (449)				
11	29 (12)	424 (301)	357 (169)		392 (230)	480 (281)	2770 (1630)	627 (368)	414 (241)	522 (304)	3000 (1750)	663 (386)				
12	30 (20)	622 (297)	563 (240)		464 (274)	569 (335)	3250 (1910)	743 (438)	412 (231)	520 (291)	2950 (1650)	659 (369)				
13	20 (11)	654 (331)	556 (263)		334 (302)	409 (370)	2310 (2090)	535 (484)	241 (220)	304 (277)	1700 (1560)	385 (352)				
14	14 (5)	425 (214)	429 (158)		231 (191)	283 (234)	1580 (1300)	370 (306)	191 (146)	241 (185)	1330 (1030)	305 (234)				
15	14 (8)	399 (156)	425 (116)		248 (135)	303 (165)	1670 (910)	397 (216)	240 (121)	302 (153)	1660 (839)	383 (194)				
16	15 (9)	411 (166)	456 (165)		269 (126)	330 (154)	1800 (838)	431 (201)	283 (134)	357 (169)	1930 (919)	452 (215)				
17	16 (11)	410 (169)	506 (190)		272 (130)	333 (159)	1790 (855)	435 (207)	321 (159)	406 (201)	2170 (1080)	514 (254)				
18	14 (8)	426 (169)	541 (211)		330 (171)	405 (210)	2150 (1120)	528 (274)	427 (263)	540 (332)	2860 (1760)	683 (420)				
19	15 (9)	408 (269)	421 (207)		359 (231)	440 (284)	2320 (1500)	575 (370)	437 (256)	553 (323)	2900 (1700)	700 (409)				
20	24 (11)	393 (159)	391 (160)		310 (155)	380 (190)	1980 (988)	496 (248)	323 (186)	408 (235)	2120 (1220)	516 (297)				
21	23 (7)	512 (176)	360 (152)		397 (183)	487 (225)	2510 (1160)	635 (293)	261 (161)	330 (203)	1700 (1050)	418 (257)				
22	21 (8)	683 (278)	327 (149)		599 (318)	734 (391)	3750 (2000)	958 (509)	277 (211)	350 (266)	1790 (1360)	443 (337)				
23	26 (17)	684 (324)	288 (158)		642 (387)	788 (475)	4000 (2410)	1030 (619)	271 (223)	342 (281)	1730 (1420)	433 (356)				
24	26 (14)	718 (468)	308 (198)		612 (420)	752 (515)	3780 (2590)	979 (671)	245 (193)	310 (244)	1550 (1220)	392 (309)				
25	26 (11)	673 (532)	347 (231)		536 (467)	659 (574)	3290 (2860)	858 (747)	239 (212)	302 (269)	1500 (1340)	382 (340)				
26	15 (7)	339 (249)	256 (151)		340 (264)	419 (324)	2070 (1600)	545 (422)	251 (148)	318 (188)	1570 (927)	402 (237)				
27	18 (7)	217 (245)	201 (149)		269 (341)	331 (419)	1620 (2060)	430 (545)	229 (193)	291 (245)	1420 (1200)	367 (309)				
28	16 (6)	227 (121)	188 (65)		315 (180)	388 (222)	1890 (1080)	504 (289)	304 (134)	386 (171)	1870 (827)	486 (215)				
29	20 (17)	359 (106)	333 (97)		574 (289)	708 (356)	3430 (1720)	919 (462)	533 (252)	678 (321)	3260 (1540)	854 (404)				
30	12 (8)	595 (208)	605 (202)		552 (271)	681 (334)	3270 (1600)	884 (433)	568 (360)	722 (457)	3450 (2190)	908 (576)				
31	22 (9)	494 (194)	493 (194)		463 (230)	571 (284)	2730 (1360)	741 (368)	503 (300)	640 (382)	3040 (1810)	805 (480)				
Avg	19	510	428		377	462	2510	603	331	419	2290	530				
n	29	31	31	0	31	31	31	31	31	31	31	31	0	0	0	0
SD	6	159	134		138	169	822	220	108	137	720	173				
Min	8	217	188		191	234	1520	306	191	241	1330	305				
Max	30	799	708		642	788	4450	1030	568	722	4150	908				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for April, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	16 (7)	381 (190)	340 (138)		368 (226)	454 (279)	2160 (1320)	589 (362)	338 (142)	430 (181)	2030 (854)	541 (228)				
2	10 (6)	290 (178)	274 (118)		258 (169)	318 (209)	1500 (986)	413 (271)	294 (121)	374 (154)	1750 (722)	470 (194)				
3	23 (11)	244 (98)	243 (110)		336 (200)	415 (246)	1940 (1150)	537 (319)	432 (298)	549 (379)	2550 (1760)	691 (477)				
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20	18 (7)	296 (105)	186 (65)		409 (198)	654 (317)	2890 (1400)	654 (317)	286 (189)	479 (317)	2100 (1390)	457 (302)				
21	15 (7)	359 (131)	257 (98)		462 (249)	800 (442)	3560 (1970)	738 (399)	385 (253)	705 (471)	3100 (2070)	616 (405)				
22	41 (41)	484 (186)	397 (134)		420 (207)	789 (390)	3520 (1740)	672 (332)	333 (158)	662 (313)	2910 (1380)	533 (252)				
23	34 (53)	400 (215)	327 (171)		435 (211)	818 (396)	3640 (1760)	696 (337)	362 (194)	720 (386)	3150 (1690)	579 (310)				
24	29 (12)	278 (183)	236 (170)		327 (161)	616 (304)	2730 (1350)	523 (258)	288 (150)	572 (299)	2500 (1300)	460 (240)				
25																
26																
27																
28																
29																
30																
Avg	23	341	283		377	608	2740	603	340	561	2510	543				
n	8	8	8	0	8	8	8	8	8	8	8	8	0	0	0	0
SD	10	74	63		63	181	759	101	49	120	487	78				
Min	10	244	186		258	318	1500	413	286	374	1750	457				
Max	41	484	397		462	818	3640	738	432	720	3150	691				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for May, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1																
2																
3																
4	24 (12)	213 (68)	169 (62)		370 (152)	701 (287)	2970 (1220)	592 (243)	345 (175)	692 (351)	2920 (1480)	552 (280)				
5	14 (7)	203 (91)	180 (95)		268 (112)	508 (212)	2140 (893)	430 (179)	262 (102)	525 (205)	2200 (862)	419 (164)				
6	13 (6)	160 (62)	134 (57)		284 (98)	2850 (14500)	53500 (363000)	454 (157)	288 (148)	577 (297)	2410 (1240)	460 (237)				
7	13 (7)	112 (103)	160 (77)		174 (202)			278 (323)	273 (129)	547 (259)	2280 (1080)	437 (207)				
8	22 (6)	33 (32)	137 (70)		5 (11)			8 (18)	228 (88)	457 (176)	1900 (731)	365 (141)				
9	22 (6)	29 (12)	155 (63)		4 (26)			7 (41)	345 (165)	692 (331)	2850 (1360)	553 (264)				
10	22 (9)	25 (9)	257 (89)		1 (5)			2 (8)	448 (191)	897 (384)	3680 (1570)	716 (306)				
11	23 (8)	21 (12)	412 (174)		-8 (26)			-12 (42)	383 (167)	767 (334)	3130 (1360)	613 (267)				
12	20 (12)	21 (15)	435 (220)		1 (22)			2 (35)	448 (234)	897 (469)	3640 (1900)	716 (374)				
13	27 (13)	34 (34)	348 (286)		6 (28)			10 (45)	503 (518)			805 (830)				
14	14 (7)	27 (14)	22 (34)		10 (9)			16 (15)	4 (47)			7 (76)				
15	7 (4)	20 (10)	6 (28)		10 (7)			15 (12)	-6 (78)			-9 (124)				
16	8 (5)		7 (44)						0 (117)			0 (186)				
17	12 (6)		-1 (34)						-6 (15)			-9 (23)				
18	11 (6)															
19	13 (7)															
20	15 (19)															
21	11 (8)															
22	13 (10)															
23	10 (6)															
24	10 (5)															
25	10 (6)															
26	9 (5)															
27	15 (12)															
28	13 (7)															
29	16 (7)															
30	19 (7)															
31	17 (6)															
Avg	15	75	173		94	1350	19500	150	251	672	2780	402				
n	28	12	14	0	12	3	3	12	14	9	9	14	0	0	0	0
SD	5	73	140		134	1060	24000	214	176	150	597	282				
Min	7	20	-1		-8	508	2140	-12	-6	457	1900	-9				
Max	27	213	435		370	2850	53500	592	503	897	3680	805				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for June, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	26 (7)															
2	19 (6)															
3	16 (9)	72 (43)			71 (62)	101 (88)	1900 (1660)	114 (100)								
4	18 (9)	72 (87)			62 (88)	87 (125)	1620 (2320)	98 (141)								
5	13 (7)	68 (53)			60 (55)	86 (78)	1560 (1410)	96 (87)								
6	15 (6)	103 (36)			60 (29)	85 (41)	1530 (732)	96 (46)								
7	11 (7)	94 (37)			76 (46)	109 (66)	1930 (1160)	122 (73)								
8	12 (6)	93 (43)			96 (72)	137 (103)	2390 (1790)	153 (114)								
9	15 (10)	94 (35)			93 (61)	134 (88)	2300 (1500)	149 (98)								
10	12 (7)	121 (51)			114 (62)	165 (90)	2780 (1520)	183 (100)								
11	19 (7)	98 (44)			105 (82)	152 (118)	2540 (1970)	169 (131)								
12	23 (8)	108 (58)			110 (77)	159 (112)	2610 (1830)	176 (123)								
13	18 (8)	88 (55)			106 (109)	154 (158)	2480 (2550)	169 (174)								
14	22 (8)	111 (53)			116 (91)	169 (133)	2680 (2110)	185 (146)								
15	23 (12)	131 (54)	116 (55)		118 (76)	172 (111)	2680 (1740)	188 (122)	149 (148)	192 (190)	3930 (3880)	239 (236)				
16	13 (7)	157 (48)	114 (34)		110 (42)	160 (61)	2470 (946)	175 (67)	95 (43)	123 (55)	2470 (1110)	152 (69)				
17	19 (4)	120 (46)	92 (27)		96 (55)	141 (80)	2140 (1210)	154 (87)	107 (61)	138 (79)	2730 (1560)	171 (98)				
18	17 (6)	93 (58)	69 (29)		93 (84)	136 (122)	2030 (1820)	148 (134)	87 (51)	113 (66)	2190 (1280)	139 (81)				
19	26 (9)	94 (52)	76 (26)		123 (123)	180 (180)	2640 (2640)	196 (197)	107 (72)	139 (93)	2670 (1790)	172 (115)				
20	30 (14)	78 (43)	66 (22)		82 (104)	120 (153)	1740 (2210)	131 (167)	81 (63)	106 (82)	1990 (1530)	130 (101)				
21																
22																
23																
24																
25																
26																
27																
28	26 (7)	173 (78)	162 (77)		193 (90)	284 (132)	3540 (1650)	308 (144)	223 (106)	293 (139)	4790 (2270)	357 (170)				
29	28 (6)	146 (62)	136 (54)		192 (161)	283 (237)	3460 (2890)	308 (257)	203 (128)	266 (168)	4280 (2700)	325 (205)				
30	34 (21)	168 (75)	182 (101)		178 (130)	263 (192)	3150 (2300)	286 (209)	233 (209)	306 (275)	4830 (4330)	373 (334)				
Avg	20	109	112		107	156	2390	172	143	186	3320	229				
n	23	21	9	0	21	21	21	21	9	9	9	9	0	0	0	0
SD	6	30	39		38	57	562	61	58	76	1070	92				
Min	11	68	66		60	85	1530	96	81	106	1990	130				
Max	34	173	182		193	284	3540	308	233	306	4830	373				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for July, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	26 (11)	166 (74)	158 (68)		215 (116)	317 (170)	3720 (1990)	344 (185)	207 (107)	273 (140)	4220 (2160)	332 (171)				
2	25 (7)	121 (51)	121 (46)						167 (110)	220 (146)	3330 (2200)	267 (177)				
3	21 (8)	175 (74)	188 (74)		188 (107)	277 (157)	3130 (1780)	300 (171)	234 (152)	309 (201)	4590 (2980)	374 (243)				
4	22 (13)	199 (125)	210 (111)		209 (182)	308 (269)	3410 (2960)	334 (291)	219 (158)	290 (209)	4220 (3040)	350 (253)				
5	26 (7)	111 (69)	113 (76)		105 (78)	154 (115)	1680 (1250)	167 (125)	118 (92)	156 (122)	2230 (1740)	188 (147)				
6	24 (10)	105 (53)	86 (60)		105 (55)	156 (81)	1650 (856)	169 (87)	95 (62)	127 (82)	1770 (1150)	153 (99)				
7	32 (7)	123 (48)	103 (48)		148 (98)	218 (145)	2270 (1510)	236 (158)	121 (94)	161 (125)	2200 (1710)	194 (151)				
8	27 (9)	131 (76)	93 (61)		135 (131)	199 (193)	2030 (1970)	216 (210)	92 (117)	122 (155)	1640 (2080)	147 (187)				
9	27 (8)	157 (55)	98 (41)		169 (81)	249 (120)	2490 (1190)	270 (130)	112 (72)	148 (95)	1950 (1250)	178 (115)				
10	21 (7)	171 (87)	134 (66)		192 (121)	283 (178)	2780 (1740)	307 (193)	135 (73)	180 (97)	2320 (1250)	216 (117)				
11	16 (9)	130 (62)	119 (54)		143 (63)	211 (93)	2030 (892)	228 (101)	142 (61)	189 (82)	2380 (1020)	227 (98)				
12	18 (9)	117 (54)	113 (52)		164 (58)	242 (85)	2280 (807)	262 (92)	171 (67)	228 (90)	2810 (1110)	274 (108)				
13	17 (6)	124 (50)	106 (40)		127 (61)	188 (89)	1740 (831)	204 (97)	128 (61)	170 (82)	2060 (992)	205 (98)				
14	26 (14)	99 (22)	109 (35)		110 (47)	162 (69)	1470 (627)	176 (75)	134 (74)	178 (98)	2110 (1160)	214 (118)				
15	29 (10)	122 (41)	131 (61)		147 (103)	217 (152)	1930 (1350)	235 (165)	176 (155)	234 (207)	2710 (2390)	281 (249)				
16	24 (8)	90 (39)	86 (48)		96 (57)	142 (84)	1240 (736)	153 (91)	102 (81)	136 (108)	1540 (1220)	163 (129)				
17	18 (10)	73 (37)	61 (26)		76 (62)	112 (92)	958 (787)	121 (100)	75 (60)	99 (80)	1100 (891)	119 (97)				
18	22 (10)	90 (26)	67 (27)		117 (59)	172 (88)	1440 (732)	186 (95)	95 (63)	127 (84)	1380 (912)	152 (101)				
19	29 (7)	122 (57)	105 (56)		144 (62)	213 (92)	1760 (759)	230 (99)	148 (82)	197 (110)	2100 (1170)	237 (132)				
20	22 (9)	96 (37)	88 (37)		106 (67)	157 (99)	1270 (800)	170 (107)	139 (117)	185 (156)	1930 (1610)	222 (187)				
21	27 (11)	98 (47)	104 (49)		96 (88)	141 (130)	1120 (1030)	153 (141)	122 (110)	163 (147)	1660 (1490)	195 (176)				
22	19 (11)	95 (61)	90 (68)		93 (87)	137 (129)	1070 (1010)	149 (140)	103 (86)	137 (115)	1370 (1150)	164 (138)				
23	15 (9)	74 (46)	51 (31)		83 (75)	122 (111)	937 (851)	132 (120)	71 (74)	95 (99)	930 (966)	114 (118)				
24	22 (9)	80 (40)	56 (33)		82 (66)	121 (98)	915 (735)	132 (106)	66 (82)	88 (109)	845 (1050)	106 (131)				
25	23 (6)	74 (46)	60 (34)		74 (85)	109 (125)	806 (927)	118 (136)	76 (81)	101 (108)	952 (1020)	121 (130)				
26																
27																
28																
29																
30																
31																
Avg	23	118	106		130	192	1840	208	130	173	2170	208				
n	25	25	25	0	24	24	24	24	25	25	25	25	0	0	0	0
SD	4	33	37		41	61	794	66	45	59	996	72				
Min	15	73	51		74	109	806	118	66	88	845	106				
Max	32	199	210		215	317	3720	344	234	309	4590	374				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for August, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-}	mg dsm^{-}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
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	27 (14)	127 (47)	111 (32)		157 (52)	234 (78)	1180 (395)	251 (84)	187 (73)	255 (99)	1440 (561)	300 (116)				
29	23 (9)	114 (38)	106 (25)		172 (61)	257 (91)	1290 (458)	275 (98)	188 (68)	256 (92)	1430 (512)	300 (108)				
30	31 (26)	111 (45)	118 (81)		155 (127)	232 (189)	1160 (944)	248 (203)	206 (224)	281 (306)	1560 (1690)	330 (359)				
31																
Avg	27	117	112		161	241	1210	258	194	264	1480	310				
n	3	3	3	0	3	3	3	3	3	3	3	3	0	0	0	0
SD	3	7	5		8	11	57	12	9	12	59	14				
Min	23	111	106		155	232	1160	248	187	255	1430	300				
Max	31	127	118		172	257	1290	275	206	281	1560	330				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for September, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	28 (7)	202 (72)	212 (65)		229 (94)	343 (141)	1690 (693)	366 (150)	324 (128)	441 (174)	2400 (947)	518 (204)				
2	28 (6)	222 (85)	239 (113)		216 (89)	326 (133)	1600 (654)	346 (142)	325 (152)	443 (207)	2390 (1120)	520 (243)				
3	24 (6)	157 (70)	147 (62)		175 (72)	263 (109)	1290 (531)	280 (116)	222 (87)	303 (118)	1630 (633)	356 (138)				
4	25 (8)	177 (70)	203 (101)		192 (100)	290 (151)	1410 (733)	307 (160)	289 (168)	394 (229)	2100 (1220)	462 (268)				
5	26 (7)	216 (100)	255 (132)		256 (132)	387 (200)	1870 (965)	410 (212)	346 (183)	472 (249)	2490 (1310)	554 (292)				
6	37 (34)	240 (111)	219 (173)		300 (200)	454 (302)	2180 (1450)	480 (319)	318 (351)	434 (478)	2280 (2510)	509 (561)				
7	14 (8)	170 (70)	81 (30)		211 (90)	319 (136)	1520 (652)	337 (144)	145 (61)	198 (83)	1030 (434)	232 (97)				
8	11 (5)	149 (51)	79 (26)		204 (87)	308 (131)	1470 (625)	326 (139)	145 (53)	198 (72)	1020 (374)	232 (85)				
9	44 (38)	224 (120)	187 (112)		248 (158)	375 (239)	1780 (1130)	397 (253)	249 (229)	340 (313)	1750 (1610)	398 (366)				
10	24 (6)	214 (84)	159 (64)		200 (97)	303 (147)	1430 (693)	321 (155)	210 (103)	287 (141)	1470 (722)	336 (165)				
11	28 (41)	239 (162)	201 (153)		251 (175)	409 (297)	1920 (1400)	402 (281)	262 (188)	358 (257)	1820 (1310)	419 (301)				
12	20 (7)	142 (64)	151 (98)		152 (98)	268 (172)	1250 (808)	244 (157)	167 (102)	229 (140)	1160 (707)	268 (163)				
13	20 (10)	160 (85)	142 (95)		187 (113)	328 (200)	1530 (931)	298 (181)	194 (157)	265 (214)	1330 (1080)	310 (251)				
14	48 (53)	210 (132)	194 (134)		217 (182)	382 (320)	1770 (1490)	347 (291)	197 (151)	269 (206)	1350 (1030)	315 (241)				
15	40 (63)	194 (132)	188 (135)		252 (326)	484 (635)	2280 (3000)	403 (521)	225 (196)	307 (269)	1530 (1340)	359 (314)				
16	34 (19)	127 (80)	111 (66)		122 (115)	257 (241)	1230 (1150)	196 (184)	133 (102)	182 (140)	901 (695)	212 (164)				
17	38 (34)	119 (58)	101 (41)		106 (92)	223 (194)	1060 (926)	170 (148)	112 (123)	153 (168)	754 (830)	179 (196)				
18	23 (7)	125 (59)	107 (55)		124 (80)	262 (169)	1250 (803)	199 (128)	143 (101)	196 (139)	966 (682)	229 (162)				
19	22 (7)	119 (72)	117 (66)		115 (87)	244 (184)	1150 (869)	184 (139)	154 (99)	211 (135)	1040 (661)	247 (158)				
20	31 (24)	173 (84)	157 (74)		166 (88)	352 (186)	1660 (877)	266 (140)	203 (120)	279 (165)	1360 (804)	325 (192)				
21	22 (6)	180 (116)	177 (92)		184 (111)	390 (235)	1830 (1110)	294 (177)	244 (125)	334 (171)	1620 (833)	390 (200)				
22	12 (10)	78 (34)	56 (17)		90 (36)	192 (77)	898 (362)	144 (58)	99 (46)	136 (63)	659 (305)	159 (73)				
23	11 (6)	80 (30)	61 (18)		103 (41)	218 (87)	1020 (407)	164 (66)	108 (40)	149 (55)	719 (265)	173 (64)				
24	11 (5)	88 (71)	74 (30)		108 (69)	229 (147)	1070 (683)	172 (110)	115 (39)	157 (54)	758 (259)	183 (63)				
25	18 (8)	93 (34)	64 (22)		110 (66)	234 (141)	1090 (653)	176 (106)	92 (40)	127 (55)	608 (264)	148 (64)				
26	17 (7)	129 (62)	89 (41)		119 (64)	254 (137)	1180 (633)	191 (103)	108 (54)	148 (74)	710 (355)	173 (86)				
27	12 (7)	92 (42)	63 (28)		100 (45)	213 (95)	983 (439)	160 (71)	86 (39)	118 (54)	564 (255)	138 (62)				
28	20 (7)	139 (70)	164 (103)		171 (116)	367 (248)	1690 (1140)	274 (185)	213 (189)	293 (259)	1390 (1230)	340 (302)				
29	16 (5)	270 (121)	238 (149)		248 (126)	533 (270)	2440 (1230)	397 (201)	240 (156)	330 (215)	1560 (1020)	384 (250)				
30	15 (7)	217 (87)	226 (93)		184 (112)	398 (241)	1810 (1090)	295 (178)	174 (108)	239 (148)	1130 (698)	278 (172)				
Avg	24	165	149		178	320	1510	285	195	266	1350	312				
n	30	30	30	0	30	30	30	30	30	30	30	30	0	0	0	0
SD	10	53	61		57	84	393	92	75	102	561	120				
Min	11	78	56		90	192	898	144	86	118	564	138				
Max	48	270	255		300	533	2440	480	346	472	2490	554				

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for October, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	13 (6)	266 (91)	283 (120)		222 (150)	481 (325)	2180 (1470)	356 (240)	276 (233)	380 (321)	1790 (1510)	442 (373)				
2	12 (6)	230 (154)	231 (163)	262 (147)	176 (127)	381 (275)	1720 (1240)	281 (203)	221 (142)	305 (195)	1430 (913)	354 (227)	229 (120)	358 (187)	1640 (859)	367 (192)
3	18 (9)	149 (92)	172 (96)	199 (96)	155 (101)	336 (219)	1510 (982)	247 (161)	221 (144)	305 (198)	1420 (924)	354 (230)	228 (116)	356 (181)	1620 (827)	364 (185)
4	17 (6)	267 (116)	288 (130)	313 (101)	233 (153)	508 (333)	2270 (1490)	373 (245)	296 (208)	407 (286)	1890 (1330)	473 (333)	280 (149)	437 (232)	1990 (1060)	448 (238)
5	16 (7)	236 (97)	270 (110)	300 (111)	164 (88)	357 (192)	1580 (854)	262 (141)	197 (126)	271 (173)	1250 (802)	315 (201)	215 (92)	388 (162)	1760 (735)	343 (147)
6	17 (7)	172 (87)	162 (103)	196 (99)	137 (78)	1040 (5300)	18000 (140000)	220 (124)	155 (108)	213 (148)	982 (682)	248 (172)	162 (90)	360 (200)	1650 (914)	259 (144)
7	16 (6)	70 (111)	158 (122)	134 (131)					172 (135)	253 (203)	1160 (928)	275 (217)	114 (131)	255 (291)	1180 (1350)	183 (209)
8	16 (6)	26 (52)	351 (168)	194 (97)					334 (229)	532 (364)	2420 (1660)	535 (366)	145 (92)	324 (205)	1500 (946)	232 (147)
9	14 (6)	26 (41)	202 (177)	109 (96)	27 (98)			44 (157)	213 (158)	341 (253)	1550 (1140)	342 (253)	95 (99)	213 (221)	979 (1020)	152 (158)
10	14 (6)	12 (39)	53 (79)	52 (68)	-5 (97)			-9 (155)	81 (168)	129 (270)	584 (1220)	129 (269)	51 (136)	115 (306)	526 (1400)	82 (218)
11	19 (6)		222 (131)	148 (66)					206 (137)	357 (242)	1620 (1100)	329 (219)	97 (54)	219 (121)	999 (550)	156 (86)
12	19 (6)	28 (6)	289 (154)	154 (74)	7 (6)			11 (9)	202 (138)	383 (261)	1750 (1200)	323 (221)	91 (54)	207 (122)	937 (551)	146 (86)
13	15 (6)	28 (4)	249 (140)	136 (65)	10 (4)			15 (7)	254 (198)	934 (821)	4690 (4210)	406 (317)	108 (73)	246 (167)	1110 (751)	172 (117)
14	23 (12)	27 (7)			4 (6)			6 (10)								
15	8 (5)	20 (3)			9 (4)			15 (6)								
16	9 (5)	22 (3)			10 (4)			16 (6)								
17	7 (5)	20 (10)			10 (8)			16 (13)								
18	6 (4)	17 (7)			9 (7)			15 (10)								
19	11 (5)	226 (331)			165 (258)			264 (413)								
20	14 (7)	348 (188)														
21	16 (5)	266 (137)														
22	11 (6)	190 (96)	205 (107)	26 (44)	61 (58)	88 (83)	1680 (1590)	97 (92)	93 (110)	133 (158)	3060 (3620)	149 (177)	8 (21)			13 (33)
23	9 (6)	140 (105)	150 (67)	16 (3)	68 (50)	99 (73)	1840 (1350)	110 (80)	117 (135)	167 (193)	3720 (4300)	187 (216)	5 (4)			8 (7)
24	13 (6)	92 (40)	111 (44)	19 (3)	75 (47)	108 (68)	1970 (1230)	119 (75)	105 (95)	150 (136)	3250 (2940)	168 (152)	5 (5)			8 (7)
25	14 (7)	211 (102)	217 (86)	20 (12)	76 (69)	109 (99)	1950 (1770)	121 (110)	80 (68)	114 (97)	2410 (2040)	128 (108)	4 (9)			7 (15)
26	11 (7)	237 (108)	211 (94)	107 (108)	61 (93)	88 (135)	1540 (2360)	97 (149)	55 (68)	79 (98)	1620 (2020)	88 (109)	32 (62)			51 (99)
27	9 (7)	177 (103)	155 (69)	181 (95)	83 (79)	120 (114)	2070 (1970)	133 (126)	63 (62)	90 (89)	1800 (1790)	100 (99)				
28	11 (8)	123 (108)	100 (66)	141 (78)	79 (91)	115 (132)	1940 (2230)	127 (146)	77 (98)	110 (140)	2170 (2750)	123 (156)	100 (79)	134 (106)	2590 (2030)	160 (126)
29	17 (7)	247 (125)	228 (145)	214 (93)	135 (110)	196 (159)	3260 (2650)	217 (175)	108 (145)	155 (207)	2990 (4020)	173 (232)				
30	16 (8)	219 (125)	195 (123)	210 (96)	78 (87)	113 (126)	1860 (2070)	125 (139)	63 (72)	90 (103)	1710 (1950)	101 (115)				
31	12 (8)	101 (67)	104 (64)	104 (61)	55 (45)	79 (65)	1280 (1050)	88 (72)	58 (42)	83 (60)	1550 (1120)	93 (67)	57 (37)	76 (50)	1380 (908)	91 (60)
Avg	14	140	200	147	81	264	2910	129	159	260	2040	254	107	263	1420	171
n	31	30	23	22	26	16	16	26	23	23	23	23	19	14	14	19
SD	4	100	70	85	70	247	3910	112	83	190	935	133	82	106	502	132
Min	6	12	53	16	-5	79	1280	-9	55	79	584	88	4	76	526	7
Max	23	348	351	313	233	1040	18000	373	334	934	4690	535	280	437	2590	448

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for November, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	8 (5)	97 (79)	148 (101)	142 (98)	41 (52)	59 (76)	934 (1200)	65 (84)	67 (54)	95 (77)	1740 (1400)	107 (86)	60 (68)	81 (91)	1430 (1600)	96 (108)
2	18 (6)	160 (84)	262 (116)	270 (131)	37 (64)	54 (92)	841 (1440)	59 (102)	94 (106)	134 (152)	2400 (2720)	150 (170)				
3	17 (7)	157 (80)	251 (97)	280 (124)	48 (63)	70 (91)	1070 (1400)	77 (100)	89 (89)	127 (127)	2220 (2230)	142 (142)				
4	20 (5)	147 (90)	237 (114)	276 (112)	41 (58)	60 (84)	905 (1270)	66 (92)	83 (85)	118 (122)	2040 (2100)	132 (136)				
5	17 (6)	138 (90)	247 (128)	315 (167)	41 (61)	59 (88)	879 (1310)	65 (97)	91 (103)	130 (147)	2200 (2490)	145 (164)				
6	17 (7)	216 (95)	318 (166)	406 (188)					95 (145)	136 (207)	2250 (3440)	152 (232)				
7	15 (6)	212 (68)	353 (134)	411 (156)					122 (131)	174 (187)	2850 (3050)	195 (209)				
8	17 (7)	164 (44)	299 (95)	343 (119)					154 (162)	220 (232)	3520 (3710)	246 (259)				
9	20 (6)	153 (45)	270 (127)	297 (135)					143 (152)	205 (218)	3210 (3420)	229 (244)				
10	16 (10)	114 (42)	176 (79)	190 (97)	55 (34)	80 (49)	1110 (675)	89 (54)	108 (81)	154 (116)	2370 (1780)	172 (129)	108 (66)	145 (89)	2220 (1360)	173 (106)
11	5 (8)	129 (51)	188 (87)	172 (87)	32 (46)	46 (67)	626 (913)	51 (74)	82 (48)	117 (68)	1770 (1030)	131 (76)	74 (71)	100 (95)	1500 (1430)	118 (113)
12	3 (5)	151 (60)	208 (80)	196 (76)	22 (43)	32 (63)	419 (835)	35 (69)	72 (49)	103 (70)	1530 (1040)	115 (79)				
13	5 (6)	166 (55)	167 (69)	188 (79)					60 (65)	86 (93)	1250 (1340)	96 (104)				
14	6 (5)	183 (92)	138 (67)	180 (94)					59 (54)	85 (77)	1200 (1090)	95 (86)				
15	8 (6)	203 (85)	103 (58)	195 (176)					45 (42)	65 (61)	893 (840)	72 (68)				
16	15 (6)	240 (91)	101 (65)	223 (111)					42 (50)	61 (72)	822 (978)	68 (80)				
17	25 (10)	267 (115)	113 (114)	205 (109)					32 (61)	46 (88)	603 (1160)	51 (98)				
18	17 (10)	169 (94)	65 (63)	127 (86)	80 (70)	117 (102)	1390 (1220)	128 (112)	21 (29)	31 (41)	397 (532)	34 (46)	64 (57)	86 (77)	1150 (1030)	102 (91)
19	10 (6)	96 (44)	32 (29)	77 (46)	66 (42)	97 (61)	1120 (706)	106 (67)	15 (29)	22 (41)	280 (518)	25 (46)	47 (37)	64 (50)	836 (654)	76 (59)
20	15 (7)	153 (87)	70 (58)	156 (101)	102 (74)	148 (108)	1690 (1230)	163 (118)	31 (38)	45 (55)	552 (684)	50 (61)	102 (64)	138 (86)	1770 (1100)	163 (102)
21	19 (5)	248 (129)	111 (102)	246 (153)					39 (47)	56 (67)	679 (810)	62 (74)				
22	18 (7)	283 (127)	107 (89)	261 (173)					33 (38)	47 (55)	553 (648)	52 (61)				
23	13 (10)	213 (116)	79 (64)	164 (135)	121 (96)	177 (140)	1900 (1500)	194 (153)	28 (29)	41 (42)	466 (489)	45 (47)	103 (92)	140 (124)	1690 (1510)	165 (147)
24	7 (6)	225 (143)	93 (95)	162 (161)					38 (42)	55 (61)	619 (684)	61 (67)				
25	8 (5)	250 (154)	126 (112)	162 (179)												
26	11 (7)	290 (164)	152 (119)	184 (180)												
27	6 (5)	396 (189)	204 (142)	249 (226)												
28																
29																
30																
Avg	13	193	171	225	57	83	1070	92	68	98	1520	109	80	108	1510	128
n	27	27	27	27	12	12	12	12	24	24	24	24	7	7	7	7
SD	6	66	84	80	29	42	400	46	38	54	940	60	23	31	413	36
Min	3	96	32	77	22	32	419	35	15	22	280	25	47	64	836	76
Max	25	396	353	411	121	177	1900	194	154	220	3520	246	108	145	2220	173

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for December, 2009.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
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26																
27	10 (6)	410 (143)	460 (159)	461 (154)									199 (159)	271 (217)	1650 (1320)	318 (254)
28	7 (5)	459 (166)	508 (180)	507 (197)	159 (169)	234 (249)	1300 (1380)	254 (270)	175 (141)	259 (208)	1450 (1170)	279 (225)				
29	9 (5)	478 (266)	527 (193)	549 (241)	161 (225)	237 (332)	1300 (1810)	257 (360)	157 (163)	232 (242)	1280 (1330)	251 (261)				
30		458 (220)	493 (191)	522 (187)	137 (183)	203 (270)	1100 (1460)	220 (293)	126 (139)	187 (206)	1020 (1120)	202 (222)	140 (193)	192 (264)	1110 (1530)	225 (308)
31	10 (6)	321 (175)	321 (155)	367 (178)	139 (138)	205 (204)	1100 (1090)	222 (221)	117 (105)	173 (156)	928 (839)	186 (168)				
Avg	9	425	462	481	149	220	1200	238	143	213	1170	230	170	232	1380	271
n	4	5	5	5	4	4	4	4	4	4	4	4	2	2	2	2
SD	1	57	74	64	11	16	100	17	23	34	206	37	29	40	267	47
Min	7	321	321	367	137	203	1100	220	117	173	928	186	140	192	1110	225
Max	10	478	527	549	161	237	1300	257	175	259	1450	279	199	271	1650	318

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Table F4. Daily means (SD) of PM10 emissions and concentration at Site NC3B for January, 2010.

Day	PM10 Concentration				PM10 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	mg d^{-1} AU^{-1}	mg d^{-1} m^{-2}
1	8 (6)	348 (190)	330 (183)	414 (219)					138 (122)	205 (181)	1090 (963)	221 (196)				
2		648 (328)	509 (218)	658 (336)	150 (223)	222 (330)	1160 (1720)	240 (357)	134 (163)	198 (242)	1040 (1270)	214 (261)				
3		513 (235)	570 (226)	551 (274)	139 (195)	206 (289)	1070 (1490)	223 (312)	178 (180)	264 (267)	1360 (1380)	284 (288)				
4		563 (305)	615 (364)	569 (342)	182 (257)	269 (381)	1380 (1950)	291 (411)	249 (220)	369 (327)	1890 (1670)	398 (352)				
5		637 (409)	504 (225)	586 (379)	192 (300)	286 (445)	1450 (2250)	308 (480)	208 (153)	309 (227)	1570 (1150)	332 (245)	205 (273)	281 (374)	1510 (2010)	329 (437)
6		514 (320)	514 (221)	560 (348)	182 (254)	270 (377)	1350 (1890)	290 (406)	218 (148)	325 (221)	1630 (1110)	349 (237)	230 (269)	315 (369)	1670 (1960)	367 (431)
7		583 (435)	537 (271)	569 (398)	256 (321)	382 (477)	1900 (2370)	410 (513)	228 (166)	340 (247)	1690 (1230)	365 (265)	265 (294)	363 (402)	1910 (2110)	423 (470)
8	10 (6)	619 (369)	589 (283)	703 (346)	213 (268)	318 (400)	1570 (1970)	341 (429)	243 (176)	362 (262)	1780 (1290)	389 (281)				
9		806 (290)	745 (203)	862 (280)	196 (277)	293 (414)	1430 (2020)	314 (444)	295 (186)	440 (277)	2150 (1350)	472 (297)	210 (275)	288 (377)	1490 (1940)	337 (440)
10		698 (228)	661 (194)	738 (216)	176 (247)	264 (369)	1280 (1790)	282 (395)	263 (180)	392 (268)	1900 (1300)	420 (287)	189 (249)	259 (341)	1320 (1740)	302 (398)
11		673 (312)	611 (211)	733 (298)	222 (273)	333 (408)	1600 (1960)	356 (437)	234 (182)	350 (271)	1680 (1300)	375 (291)	220 (288)	301 (395)	1520 (2000)	351 (462)
12	16 (7)	576 (272)	605 (255)	739 (349)	216 (243)	324 (364)	1540 (1740)	346 (389)	238 (187)	355 (279)	1690 (1330)	380 (298)	250 (310)	342 (426)	1710 (2130)	399 (496)
13		661 (370)	675 (328)	695 (321)	207 (332)	310 (497)	1470 (2360)	331 (531)	262 (207)	391 (310)	1850 (1460)	419 (331)	233 (278)	319 (382)	1580 (1890)	372 (445)
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31																
Avg	12	603	574	644	194	290	1430	311	222	331	1640	355	225	309	1590	360
n	3	13	13	13	12	12	12	12	13	13	13	13	8	8	8	8
SD	4	106	98	112	31	46	208	49	46	69	304	73	23	31	164	37
Min	8	348	330	414	139	206	1070	223	134	198	1040	214	189	259	1320	302
Max	16	806	745	862	256	382	1900	410	295	440	2150	472	265	363	1910	423

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Table F5. PM2.5 concentrations and emissions.

Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for June, 2008.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5																
6																
7																
8	24.4 (7.1)	39.7 (8.0)	28.9 (6.4)	31.4 (6.3)	29.9 (18.1)	35.8 (21.6)	186 (112)	47.9 (28.9)	12.8 (21.1)	16.5 (27.1)	79.5 (131)	20.5 (33.7)	14.5 (16.5)	19.1 (21.7)	102 (116)	23.3 (26.4)
9	29.4 (9.9)	41.8 (11.4)	34.0 (11.5)	34.9 (11.6)	25.9 (19.2)	31.0 (23.0)	160 (119)	41.5 (30.7)	13.3 (22.7)	17.1 (29.3)	81.7 (140)	21.2 (36.4)	14.4 (26.5)	18.9 (34.8)	100 (184)	23.0 (42.4)
10	24.7 (6.0)	40.0 (11.0)	29.5 (6.7)	31.7 (7.7)	23.2 (20.5)	27.8 (24.5)	142 (126)	37.0 (32.7)	12.5 (27.4)	16.1 (35.4)	76.4 (168)	19.9 (43.9)	14.5 (25.0)	19.1 (32.9)	100 (173)	23.3 (40.1)
11																
12																
13	19.2 (9.3)	46.3 (23.9)	29.9 (16.4)	32.6 (22.4)	28.3 (26.3)	34.1 (31.6)	172 (159)	45.2 (42.0)	19.1 (32.9)	24.7 (42.6)	116 (199)	30.5 (52.7)	16.8 (34.7)	22.2 (45.6)	114 (234)	27.0 (55.5)
14	15.0 (4.6)	35.9 (27.5)	26.2 (13.2)	26.5 (14.9)	21.3 (44.3)	25.7 (53.5)	129 (268)	34.1 (70.9)	18.7 (26.2)	24.2 (33.9)	112 (158)	29.8 (41.9)	13.6 (26.1)	17.8 (34.4)	90.8 (175)	21.7 (41.8)
15																
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Avg	22.5	40.7	29.7	31.4	25.7	30.9	158	41.2	15.3	19.7	93.1	24.4	14.8	19.4	101	23.6
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
SD	5.0	3.4	2.5	2.8	3.2	3.8	20.2	5.1	3.0	3.9	17.2	4.8	1.1	1.5	7.3	1.8
Min	15.0	35.9	26.2	26.5	21.3	25.7	129	34.1	12.5	16.1	76.4	19.9	13.6	17.8	90.8	21.7
Max	29.4	46.3	34.0	34.9	29.9	35.8	186	47.9	19.1	24.7	116	30.5	16.8	22.2	114	27.0

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for October, 2008.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5																
6	18.7 (5.9)	36.6 (4.2)	31.4 (5.0)	29.2 (4.5)	15.5 (6.3)	19.2 (7.8)	130 (53)	24.8 (10.1)	10.8 (6.6)	14.9 (9.0)	92.9 (56.5)	17.3 (10.5)	8.5 (5.2)	11.8 (7.2)	91.1 (55.6)	13.6 (8.3)
7	17.1 (7.6)	36.3 (8.7)	29.5 (9.7)	29.5 (8.7)	16.4 (6.8)	20.3 (8.4)	135 (56)	26.2 (10.9)	10.1 (7.4)	13.9 (10.1)	85.6 (62.5)	16.1 (11.8)	9.0 (6.5)	12.4 (9.1)	94.4 (68.8)	14.3 (10.5)
8	6.0 (4.8)	25.5 (7.2)	17.9 (6.9)	17.7 (6.9)	16.0 (7.9)	19.9 (9.8)	130 (65)	25.7 (12.7)	8.8 (6.0)	12.1 (8.3)	73.3 (50.4)	14.0 (9.7)	8.0 (6.2)	11.1 (8.6)	82.8 (64.0)	12.8 (9.9)
9	5.3 (4.7)	24.2 (6.8)	16.1 (4.8)	16.8 (4.9)	16.3 (7.0)	20.2 (8.7)	131 (56)	26.2 (11.2)	11.1 (7.7)	15.3 (10.6)	91.4 (63.4)	17.7 (12.3)	8.9 (5.0)	12.3 (6.9)	90.1 (50.6)	14.2 (7.9)
10	4.2 (4.6)	21.0 (5.5)	14.6 (5.9)	15.5 (5.2)	14.8 (5.5)	18.3 (6.8)	116 (43)	23.7 (8.8)	11.0 (7.8)	15.2 (10.7)	89.7 (63.2)	17.7 (12.4)	8.6 (4.9)	12.0 (6.8)	86.2 (49.1)	13.8 (7.9)
11	7.3 (5.3)	25.4 (5.8)	20.7 (5.9)	20.2 (5.1)	15.1 (5.4)	18.7 (6.7)	117 (42)	24.1 (8.6)	14.0 (7.4)	19.2 (10.2)	112.0 (59.4)	22.4 (11.9)	9.2 (5.0)	12.8 (6.9)	90.4 (48.8)	14.7 (8.0)
12	5.5 (4.8)	22.9 (6.5)	18.7 (10.1)	18.6 (7.9)	14.3 (6.7)	17.7 (8.3)	109 (51)	22.8 (10.7)	11.5 (12.2)	15.9 (16.8)	91.3 (96.8)	18.4 (19.5)	8.8 (7.2)	12.3 (10.1)	85.6 (70.1)	14.1 (11.6)
13	5.6 (5.0)	23.2 (6.2)	15.2 (6.1)	15.7 (5.6)	15.5 (7.7)	19.3 (9.5)	117 (58)	24.9 (12.3)	8.3 (8.3)	11.4 (11.4)	64.5 (64.5)	13.2 (13.2)	7.8 (6.3)	10.8 (8.7)	73.8 (59.6)	12.4 (10.0)
14	8.8 (5.0)	28.3 (8.7)	21.3 (7.7)	20.4 (7.3)	18.3 (10.4)	22.7 (12.9)	136 (77)	29.3 (16.6)	10.6 (10.5)	14.6 (14.5)	81.6 (81.3)	16.9 (16.9)	10.6 (8.1)	14.8 (11.3)	99.5 (76.1)	17.0 (13.0)
15	12.5 (4.6)	35.0 (14.7)	24.9 (11.0)	24.5 (11.3)	23.0 (24.2)	28.6 (30.1)	169 (178)	36.8 (38.8)	11.8 (19.2)	16.2 (26.5)	89.8 (146.0)	18.8 (30.7)	11.5 (14.2)	16.0 (19.8)	106 (131)	18.3 (22.8)
16	15.7 (5.4)	34.5 (9.2)	27.6 (9.9)	26.9 (8.6)	19.0 (11.1)	23.7 (13.7)	138 (80)	30.5 (17.7)	12.1 (11.7)	16.6 (16.2)	91.1 (88.6)	19.3 (18.8)	10.5 (9.1)	14.7 (12.7)	95.7 (82.7)	16.9 (14.6)
17	17.1 (8.7)	33.7 (13.0)	26.6 (13.8)	25.5 (12.4)	14.1 (10.0)	17.6 (12.4)	101 (72)	22.6 (16.0)	10.6 (12.8)	14.6 (17.6)	79.2 (95.5)	17.0 (20.4)	6.9 (8.0)	9.6 (11.2)	61.7 (71.8)	11.0 (12.8)
18	5.7 (5.3)	33.8 (17.3)	22.7 (14.4)	20.5 (12.9)	18.8 (16.7)	23.4 (20.8)	133 (118)	30.1 (26.7)					10.8 (10.1)	15.0 (14.1)	95.1 (89.2)	17.3 (16.2)
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Avg	10.0	29.3	22.1	21.6	16.7	20.7	128	26.7	10.9	15.0	86.9	17.4	9.2	12.7	88.6	14.7
n	13	13	13	13	13	13	13	13	12	12	12	12	13	13	13	13
SD	5.2	5.6	5.3	4.8	2.4	3.0	16.1	3.8	1.4	2.0	11.3	2.3	1.3	1.8	10.9	2.1
Min	4.2	21.0	14.6	15.5	14.1	17.6	101	22.6	8.3	11.4	64.5	13.2	6.9	9.6	61.7	11.0
Max	18.7	36.6	31.4	29.5	23.0	28.6	169	36.8	14.0	19.2	112	22.4	11.5	16.0	106	18.3

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for April, 2009.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5	11.6 (5.0)	34.4 (9.4)	28.3 (9.3)		29.7 (14.5)	36.6 (17.9)	170 (83)	47.4 (23.2)	24.0 (14.5)	30.5 (18.5)	140 (85)	38.4 (23.3)				
6	9.8 (5.9)	33.0 (8.7)	23.6 (8.4)		34.9 (22.0)	43.1 (27.2)	199 (125)	55.9 (35.3)	24.2 (24.5)	35.6 (37.0)	165 (172)	38.8 (39.2)				
7	3.5 (4.8)	52.0 (28.0)	31.3 (8.8)		37.4 (25.3)	46.1 (31.2)	212 (143)	59.8 (40.4)	19.7 (8.8)	32.7 (14.7)	153 (69)	31.4 (14.1)				
8	7.9 (5.6)	42.5 (12.7)	31.6 (8.6)		29.8 (11.9)	36.7 (14.6)	168 (67)	47.6 (19.0)	17.6 (9.6)	29.3 (16.0)	136 (74)	28.1 (15.4)				
9	13.0 (5.7)	44.8 (11.6)	33.8 (9.4)		32.9 (16.2)	40.6 (20.0)	185 (91)	52.6 (26.0)	22.9 (13.0)	38.1 (21.6)	176 (100)	36.6 (20.8)				
10	8.6 (5.6)	31.9 (11.1)	25.5 (9.8)		33.9 (16.6)	41.8 (20.5)	189 (93)	54.2 (26.6)	25.3 (16.0)	42.1 (26.7)	194 (123)	40.4 (25.7)				
11	6.3 (5.8)	31.1 (11.8)	23.0 (9.2)		31.8 (17.3)	39.2 (21.4)	177 (96)	50.9 (27.8)	23.4 (16.5)	39.1 (27.6)	179 (126)	37.5 (26.4)				
12	6.8 (4.2)	43.2 (13.9)	32.6 (10.4)		36.2 (18.9)	44.7 (23.3)	201 (105)	57.9 (30.2)	23.8 (12.4)	39.7 (20.7)	181 (94)	38.1 (19.9)				
13	7.7 (4.1)	44.9 (26.3)	24.9 (12.8)		34.1 (22.1)	42.1 (27.2)	188 (122)	54.6 (35.3)	13.8 (10.8)	23.0 (18.0)	104 (82)	22.1 (17.3)				
14	6.0 (5.2)	30.9 (16.8)	16.0 (7.4)		29.8 (20.5)	36.8 (25.3)	164 (113)	47.7 (32.8)	12.4 (10.6)	20.6 (17.7)	93 (80)	19.8 (17.0)				
15	6.9 (4.9)	32.7 (12.9)	20.3 (8.6)		29.2 (16.6)	36.1 (20.5)	160 (91)	46.7 (26.5)	14.3 (9.8)	24.0 (16.4)	108 (74)	22.9 (15.7)				
16	5.3 (4.0)	50.1 (26.3)	23.3 (12.2)		45.3 (33.8)	55.9 (41.7)	246 (184)	72.5 (54.1)	17.7 (16.4)	29.6 (27.4)	132 (122)	28.3 (26.2)				
17	8.0 (6.8)	49.2 (32.3)	25.4 (10.9)		34.8 (22.1)	48.0 (28.2)	212 (124)	55.6 (35.3)	13.6 (13.7)	22.7 (22.9)	101 (102)	21.7 (21.9)				
18	9.8 (5.9)	40.1 (15.7)	20.2 (8.1)		36.1 (19.5)	57.7 (31.2)	257 (139)	57.7 (31.2)	10.5 (12.3)	17.7 (20.7)	78 (92)	16.9 (19.8)				
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Avg	7.9	40.1	25.7		34.0	43.3	195	54.4	18.8	30.3	139	30.1				
n	14	14	14	0	14	14	14	14	14	14	14	14	0	0	0	0
SD	2.4	7.3	5.1		4.1	6.6	28.3	6.5	5.0	7.6	36.0	8.0				
Min	3.5	30.9	16.0		29.2	36.1	160	46.7	10.5	17.7	78	16.9				
Max	13.0	52.0	33.8		45.3	57.7	257	72.5	25.3	42.1	194	40.4				

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for July, 2009.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
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27	11.3 (9.2)	26.0 (5.0)	18.1 (4.8)		24.9 (15.9)	36.7 (23.5)	264 (168)	39.8 (25.4)	15.4 (17.1)	20.6 (22.8)	187 (206)	24.7 (27.3)				
28	12.8 (5.2)	25.8 (3.5)	18.0 (3.1)		21.7 (11.3)	32.0 (16.7)	226 (118)	34.7 (18.1)	11.3 (12.8)	15.2 (17.0)	135 (151)	18.2 (20.4)				
29	8.1 (4.6)	21.4 (3.7)	14.0 (3.3)		24.5 (9.8)	36.3 (14.5)	252 (100)	39.2 (15.7)	14.4 (11.3)	19.2 (15.1)	167 (131)	23.0 (18.1)				
30	13.2 (8.1)	26.5 (5.6)	19.2 (5.9)		25.0 (13.1)	37.0 (19.4)	253 (132)	40.1 (21.0)	14.3 (14.6)	19.1 (19.5)	163 (167)	22.9 (23.4)				
31	7.7 (5.4)	21.7 (4.1)	14.2 (4.3)		25.1 (12.8)	37.1 (18.9)	250 (127)	40.2 (20.4)	15.4 (14.2)	20.6 (19.0)	173 (159)	24.6 (22.7)				
Avg	10.6	24.3	16.7		24.2	35.8	249	38.8	14.2	18.9	165	22.7				
n	5	5	5	0	5	5	5	5	5	5	5	5	0	0	0	0
SD	2.3	2.2	2.2		1.3	1.9	12.4	2.1	1.5	2.0	17.1	2.4				
Min	7.7	21.4	14.0		21.7	32.0	226	34.7	11.3	15.2	135	18.2				
Max	13.2	26.5	19.2		25.1	37.1	264	40.2	15.4	20.6	187	24.7				

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for August, 2009.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1	7.7 (5.4)	21.6 (9.0)	14.6 (4.7)		26.2 (22.6)	38.8 (33.5)	257 (222)	41.9 (36.2)	17.0 (14.2)	22.7 (19.0)	187 (157)	27.2 (22.7)				
2	8.0 (5.3)	22.4 (10.1)	15.1 (4.3)		24.4 (19.5)	36.0 (28.8)	236 (189)	39.0 (31.2)	16.3 (11.1)	21.8 (14.9)	177 (121)	26.1 (17.8)				
3	10.5 (7.2)	23.4 (11.6)	16.2 (6.2)		20.8 (21.3)	30.8 (31.6)	199 (203)	33.3 (34.1)	13.3 (18.9)	17.9 (25.3)	142 (201)	21.3 (30.2)				
4	14.7 (7.6)	28.6 (10.9)	21.4 (5.9)		27.3 (25.7)	40.4 (38.0)	257 (242)	43.7 (41.2)	14.9 (15.6)	20.0 (20.9)	156 (163)	23.9 (24.9)				
5	17.1 (6.4)	30.0 (10.7)	23.2 (6.3)		23.4 (23.5)	34.6 (34.7)	217 (218)	37.4 (37.6)	16.6 (21.8)	22.3 (29.4)	171 (225)	26.6 (35.0)				
6	18.5 (5.8)	30.3 (11.2)	22.7 (12.4)		23.7 (26.9)	35.0 (39.8)	217 (246)	37.9 (43.0)	9.4 (25.3)	12.7 (34.0)	96 (256)	15.1 (40.4)				
7	19.5 (7.5)	33.0 (34.4)	26.6 (7.5)		24.5 (87.9)	36.3 (130)	222 (796)	39.2 (141.0)	15.4 (22.3)	20.8 (30.0)	154 (222)	24.7 (35.6)				
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Avg	13.7	27.1	20.0		24.3	36.0	229	38.9	14.7	19.8	155	23.5				
n	7	7	7	0	7	7	7	7	7	7	7	7	0	0	0	0
SD	4.6	4.2	4.3		1.9	2.9	20.2	3.1	2.4	3.3	27.9	3.9				
Min	7.7	21.6	14.6		20.8	30.8	199	33.3	9.4	12.7	96	15.1				
Max	19.5	33.0	26.6		27.3	40.4	257	43.7	17.0	22.7	187	27.2				

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for November, 2009.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
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29	8.3 (5.3)	25.2 (4.1)	19.5 (4.8)	24.2 (5.4)					5.6 (5.2)	8.3 (7.6)	82.0 (76.0)	9.0 (8.3)				
30	6.8 (4.7)	25.6 (4.9)	19.0 (3.7)	25.5 (7.2)					7.5 (4.8)	10.9 (7.0)	106 (68)	11.9 (7.6)				
Avg	7.5	25.4	19.2	24.8					6.5	9.6	94.1	10.5				
n	2	2	2	2	0	0	0	0	2	2	2	2	0	0	0	0
SD	0.7	0.2	0.2	0.6					0.9	1.3	12.0	1.5				
Min	6.8	25.2	19.0	24.2					5.6	8.3	82.0	9.0				
Max	8.3	25.6	19.5	25.5					7.5	10.9	106	11.9				

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Table F5. Daily means (SD) of PM2.5 concentration and emissions at Site NC3B for December, 2009.

Date	PM2.5 Concentration				PM2.5 Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1	4.1 (5.2)	25.6 (5.0)	19.0 (5.4)	28.4 (9.2)												
2	3.5 (5.2)	20.0 (4.7)	13.2 (5.6)	16.3 (8.4)	9.4 (6.5)	13.8 (9.5)	121 (83)	15.1 (10.3)	5.9 (5.6)	8.6 (8.2)	79.5 (75.7)	9.4 (9.0)	5.8 (6.1)	7.9 (8.2)	79.0 (82.5)	9.3 (9.7)
3	4.1 (5.0)	22.4 (5.0)	18.1 (5.5)	17.7 (6.2)	12.3 (4.6)	18.1 (6.8)	156 (58)	19.8 (7.4)	8.8 (5.5)	12.9 (8.0)	117 (73)	14.0 (8.7)	8.5 (4.7)	11.6 (6.4)	113 (62)	13.7 (7.5)
4	7.0 (4.6)	27.9 (6.0)	24.0 (6.0)	23.0 (7.4)					7.8 (4.5)	11.4 (6.7)	101 (59)	12.4 (7.3)				
5	3.2 (5.1)	24.8 (5.6)	20.3 (6.0)	18.9 (6.9)					6.7 (3.7)	9.8 (5.5)	85.1 (46.9)	10.7 (5.9)				
6	9.8 (6.7)	35.8 (9.0)	30.5 (7.9)	26.0 (8.3)					8.1 (6.0)	12.0 (8.8)	101 (75)	13.0 (9.6)	5.9 (7.5)	8.0 (10.1)	73.4 (92.9)	9.5 (12.0)
7	9.8 (3.6)	35.6 (10.2)	29.7 (8.7)	22.8 (9.1)					7.6 (5.5)	11.2 (8.1)	92.0 (67.0)	12.1 (8.8)	6.1 (7.0)	8.2 (9.5)	73.4 (85.1)	9.7 (11.2)
8	11.3 (5.6)	35.0 (12.0)	30.8 (11.3)	22.2 (10.5)	10.5 (11.3)	15.4 (16.5)	120 (128)	16.8 (18.0)	8.6 (6.0)	12.7 (8.8)	103 (72)	13.8 (9.6)	4.5 (6.6)	6.1 (8.9)	53.7 (78.1)	7.2 (10.5)
9	3.1 (9.8)	20.5 (8.0)	12.2 (6.2)	11.4 (6.8)	13.3 (8.8)	19.6 (12.9)	149 (99)	21.4 (14.1)	8.7 (8.8)	12.8 (13.0)	102 (103)	13.9 (14.1)	5.4 (7.0)	7.3 (9.4)	62.8 (81.1)	8.6 (11.1)
10	4.1 (4.4)	35.7 (14.5)	26.5 (13.8)	24.1 (13.0)					12.1 (10.2)	17.9 (15.0)	138 (116)	19.4 (16.3)				
11	2.9 (4.6)	42.3 (15.4)	28.5 (9.3)	27.6 (11.0)					5.5 (6.9)	8.1 (10.1)	61.3 (76.6)	8.8 (11.0)				
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Avg	5.7	29.6	23.0	21.7	11.4	16.7	137	18.2	8.0	11.7	97.9	12.8	6.1	8.2	75.9	9.7
n	11	11	11	11	4	4	4	4	10	10	10	10	6	6	6	6
SD	3.0	7.2	6.5	4.9	1.5	2.3	16.3	2.5	1.8	2.6	19.8	2.8	1.2	1.7	18.6	2.0
Min	2.9	20.0	12.2	11.4	9.4	13.8	120	15.1	5.5	8.1	61.3	8.8	4.5	6.1	53.7	7.2
Max	11.3	42.3	30.8	28.4	13.3	19.6	156	21.4	12.1	17.9	138	19.4	8.5	11.6	113	13.7

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Table F6. TSP concentrations and emissions.

Table F6. Daily means (SD) of TSP emissions at Site NC3B for June, 2008.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g $d^{-1}AU^{-1}$	mg $d^{-1}m^{-2}$	g d^{-1}	mg d^{-1} hd^{-1}	g $d^{-1}AU^{-1}$	mg $d^{-1}m^{-2}$	g d^{-1}	mg d^{-1} hd^{-1}	g $d^{-1}AU^{-1}$	mg $d^{-1}m^{-2}$
1	24 (8)	661 (284)	340 (208)	476 (176)	878 (207)	1050 (246)	5720 (1350)	1410 (331)	677 (327)	871 (420)	4410 (2130)	1080 (523)	736 (248)	960 (324)	5510 (1860)	1180 (398)
2	41 (17)	796 (385)	655 (340)	586 (246)	976 (547)	1160 (652)	6300 (3530)	1560 (875)	1190 (720)	1530 (927)	7690 (4650)	1910 (1150)	901 (465)	1180 (608)	6670 (3440)	1440 (744)
3	25 (6)	744 (411)	717 (309)	586 (304)	828 (321)	988 (383)	5310 (2060)	1330 (513)	1140 (465)	1460 (599)	7280 (2980)	1820 (744)	662 (246)	865 (322)	4860 (1810)	1060 (394)
4	28 (7)	472 (353)	447 (196)	318 (210)	635 (353)	757 (421)	4040 (2250)	1020 (565)	809 (284)	1040 (366)	5150 (1810)	1290 (455)	473 (249)	619 (325)	3440 (1810)	756 (398)
5	32 (14)	430 (314)	390 (141)	308 (181)	698 (442)	833 (528)	4410 (2800)	1120 (708)	786 (288)	1010 (371)	4970 (1820)	1260 (462)	483 (219)	633 (287)	3480 (1580)	773 (350)
6	30 (14)	372 (215)	389 (101)	264 (133)	603 (269)	720 (322)	3790 (1690)	964 (431)	771 (216)	993 (278)	4840 (1350)	1230 (345)	432 (190)	566 (250)	3080 (1360)	691 (305)
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Avg	30	579	490	423	770	918	4930	1230	895	1150	5720	1430	614	803	4510	983
n	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
SD	6	162	143	133	135	160	913	216	195	251	1270	312	168	219	1290	269
Min	24	372	340	264	603	720	3790	964	677	871	4410	1080	432	566	3080	691
Max	41	796	717	586	976	1160	6300	1560	1190	1530	7690	1910	901	1180	6670	1440

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for February, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
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23	18 (5)	2350 (843)	1960 (925)	1650 (606)	697 (949)	852 (1160)	6390 (8700)	1120 (1520)	736 (812)	920 (1020)	6810 (7510)	1180 (1300)				
24	22 (10)	1910 (761)	2110 (925)	1490 (536)	592 (820)	723 (1000)	5330 (7380)	947 (1310)	759 (878)	949 (1100)	6900 (7980)	1210 (1410)	574 (611)	737 (784)	5680 (6040)	919 (978)
25	25 (6)	1870 (874)	1920 (891)	1600 (731)	729 (795)	891 (972)	6440 (7020)	1170 (1270)	752 (788)	941 (986)	6710 (7030)	1200 (1260)	692 (727)	888 (933)	6710 (7050)	1110 (1160)
26	23 (9)	1560 (800)	1440 (655)	1330 (580)	750 (639)	916 (781)	6500 (5550)	1200 (1020)	799 (569)	1000 (711)	7000 (4980)	1280 (910)	726 (508)	933 (652)	6920 (4850)	1160 (813)
27																
28																
Avg	22	1920	1860	1520	692	846	6160	1110	762	952	6860	1220	664	853	6430	1060
n	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3
SD	3	280	249	120	61	74	485	97	23	29	107	37	65	84	543	104
Min	18	1560	1440	1330	592	723	5330	947	736	920	6710	1180	574	737	5680	919
Max	25	2350	2110	1650	750	916	6500	1200	799	1000	7000	1280	726	933	6920	1160

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for April, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5																
6																
7																
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19																
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21																
22																
23																
24																
25																
26	19 (8)	399 (168)	414 (187)		678 (298)	1280 (561)	5630 (2470)	1080 (476)	759 (303)	1510 (603)	6560 (2610)	1220 (484)				
27	33 (29)	512 (316)	563 (365)		638 (258)	1200 (486)	5280 (2130)	1020 (412)	753 (362)	1500 (721)	6480 (3120)	1200 (579)				
28	72 (157)	564 (418)	638 (510)		646 (291)	1220 (549)	5320 (2400)	1030 (465)	767 (460)	1530 (918)	6580 (3950)	1230 (737)				
29	26 (16)	544 (378)	566 (349)		709 (400)	1340 (756)	5830 (3290)	1130 (640)	781 (383)	1560 (764)	6690 (3280)	1250 (613)				
30	32 (12)	585 (322)	633 (349)		699 (360)	1320 (680)	5720 (2940)	1120 (575)	757 (277)	1510 (554)	6460 (2370)	1210 (444)				
Avg	36	521	563		674	1270	5560	1080	763	1520	6550	1220				
n	5	5	5	0	5	5	5	5	5	5	5	5	0	0	0	0
SD	18	66	81		28	54	217	45	10	20	81	16				
Min	19	399	414		638	1200	5280	1020	753	1500	6460	1200				
Max	72	585	638		709	1340	5830	1130	781	1560	6690	1250				

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for May, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1	29 (14)	356 (218)	367 (194)		554 (290)	1050 (548)	4510 (2360)	886 (464)	620 (278)	1240 (555)	5280 (2370)	992 (445)				
2	20 (5)	354 (190)	327 (184)		583 (242)	1100 (457)	4730 (1960)	933 (386)	642 (285)	1280 (570)	5450 (2420)	1030 (456)				
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
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19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Avg	24	355	347		568	1080	4620	909	631	1260	5370	1010				
n	2	2	2	0	2	2	2	2	2	2	2	2	0	0	0	0
SD	4	1	20		15	28	108	23	11	22	85	17				
Min	20	354	327		554	1050	4510	886	620	1240	5280	992				
Max	29	356	367		583	1100	4730	933	642	1280	5450	1030				

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for June, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22	31 (22)	405 (195)	341 (286)		482 (294)	707 (432)	9850 (6010)	771 (471)	436 (338)	567 (440)	10300 (8020)	697 (541)				
23	22 (8)	312 (175)	252 (139)		352 (194)	517 (286)	7080 (3910)	563 (311)	381 (188)	496 (245)	8870 (4380)	609 (301)				
24	25 (11)	292 (183)	233 (157)		329 (143)	483 (210)	6500 (2820)	526 (228)	324 (152)	422 (198)	7420 (3490)	518 (243)				
25	33 (17)	287 (189)	228 (163)		351 (201)	515 (295)	6810 (3900)	561 (321)	335 (170)	438 (222)	7570 (3850)	537 (273)				
26	32 (14)	215 (119)	178 (82)						268 (146)	350 (191)	5950 (3250)	429 (234)				
27																
28																
29																
30																
Avg	28	302	246		378	556	7560	605	349	455	8030	558				
n	5	5	5	0	4	4	4	4	5	5	5	5	0	0	0	0
SD	4	61	53		60	89	1340	97	56	73	1480	90				
Min	22	215	178		329	483	6500	526	268	350	5950	429				
Max	33	405	341		482	707	9850	771	436	567	10300	697				

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for August, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-1}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3																
4																
5																
6																
7																
8																
9	30 (18)	243 (140)	206 (72)		365 (129)	540 (190)	3220 (1140)	584 (206)	319 (99)	430 (133)	3090 (965)	510 (158)				
10	38 (17)	244 (155)	199 (97)		385 (228)	570 (337)	3360 (1990)	615 (364)	314 (160)	424 (216)	3000 (1530)	503 (256)				
11	31 (13)	199 (136)	152 (73)		318 (244)	471 (362)	2750 (2110)	509 (391)	306 (184)	414 (249)	2880 (1730)	490 (295)				
12	27 (7)	167 (83)	107 (33)		234 (124)	347 (184)	2000 (1060)	375 (199)	201 (88)	272 (119)	1870 (820)	322 (141)				
13	28 (9)	263 (118)	132 (41)		355 (158)	527 (234)	3010 (1340)	568 (253)	240 (98)	324 (132)	2190 (891)	383 (156)				
14	20 (12)	253 (130)	143 (109)		338 (137)	501 (204)	2830 (1160)	540 (220)	288 (149)	390 (201)	2600 (1340)	461 (238)				
15	28 (14)	256 (150)	124 (48)		346 (158)	514 (234)	2880 (1310)	554 (252)	253 (120)	343 (162)	2250 (1070)	405 (192)				
16	24 (8)	238 (160)	117 (57)		339 (188)	503 (280)	2790 (1550)	542 (301)	257 (145)	349 (197)	2260 (1270)	412 (232)				
17	33 (48)	243 (171)	135 (126)		356 (352)	529 (523)	2900 (2870)	570 (564)	290 (385)	393 (522)	2510 (3330)	464 (617)				
18	22 (7)	197 (133)	115 (50)		303 (187)	450 (278)	2450 (1510)	485 (299)	278 (141)	377 (191)	2380 (1200)	445 (225)				
19	14 (5)	194 (165)	117 (72)		304 (287)	452 (427)	2440 (2300)	486 (460)	280 (198)	380 (268)	2370 (1670)	449 (316)				
20	18 (9)	155 (114)	129 (56)		254 (191)	377 (284)	2020 (1520)	406 (306)	278 (147)	377 (199)	2320 (1220)	445 (235)				
21	19 (10)	127 (81)	114 (45)		187 (134)	279 (200)	1480 (1060)	300 (215)	217 (103)	294 (140)	1790 (854)	347 (166)				
22	16 (7)	201 (135)	131 (79)		265 (220)	394 (328)	2070 (1720)	423 (352)	250 (166)	339 (226)	2040 (1360)	399 (266)				
23	23 (8)	251 (174)	179 (100)		303 (198)	452 (295)	2360 (1540)	486 (317)	291 (156)	396 (212)	2350 (1260)	466 (250)				
24	36 (15)	271 (215)	200 (132)		344 (393)	512 (586)	2660 (3040)	550 (629)	308 (233)	419 (317)	2460 (1860)	493 (373)				
25	38 (11)	217 (176)	182 (119)		272 (311)	406 (464)	2090 (2390)	436 (497)	300 (250)	408 (341)	2380 (1980)	480 (401)				
26	18 (10)	178 (180)	150 (109)		254 (376)	379 (561)	1940 (2870)	407 (602)	281 (256)	382 (348)	2200 (2000)	449 (410)				
27																
28																
29																
30																
31																
Avg	26	216	146		307	456	2510	491	275	373	2380	440				
n	18	18	18	0	18	18	18	18	18	18	18	18	0	0	0	0
SD	7	40	32		51	76	490	82	32	43	337	51				
Min	14	127	107		187	279	1480	300	201	272	1790	322				
Max	38	271	206		385	570	3360	615	319	430	3090	510				

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Table F6. Daily means (SD) of TSP emissions at Site NC3B for December, 2009.

Date	TSP Concentration				TSP Emission											
	Inlet	Barn 1	Barn 2	Barn 3	Barn 1				Barn 2				Barn 3			
	mg dsm	mg dsm^{-3}	mg dsm^{-3}	mg dsm^{-3}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}	g d^{-1}	mg d^{-1} hd^{-}	g d^{-1}AU^{-1}	mg d^{-1}m^{-2}
1																
2																
3					12 (5)	18 (7)	156 (58)	20 (7)	9 (6)	13 (8)	117 (73)	14 (9)	9 (5)	12 (6)	113 (62)	14 (8)
4									8 (5)	11 (7)	101 (59)	12 (7)				
5									7 (4)	10 (6)	85 (47)	11 (6)				
6									8 (6)	12 (9)	101 (75)	13 (10)	6 (8)	8 (10)	73 (93)	10 (12)
7									8 (6)	11 (8)	92 (67)	12 (9)	6 (7)	8 (10)	73 (85)	10 (11)
8					11 (11)	15 (17)	120 (128)	17 (18)	9 (6)	13 (9)	103 (72)	14 (10)	5 (7)	6 (9)	54 (78)	7 (11)
9					13 (9)	20 (13)	149 (99)	21 (14)	9 (9)	13 (13)	102 (103)	14 (14)	5 (7)	7 (9)	63 (81)	9 (11)
10									12 (10)	18 (15)	138 (116)	19 (16)				
11									6 (7)	8 (10)	61 (77)	9 (11)				
12					111 (292)	163 (429)	1160 (3070)	178 (467)	119 (275)	176 (406)	1300 (3000)	191 (440)	96 (263)	131 (358)	1040 (2860)	153 (421)
13	11 (6)	831 (376)	785 (293)	804 (335)	396 (276)	581 (405)	4100 (2860)	633 (441)	362 (260)	535 (384)	3880 (2790)	579 (416)	348 (260)	474 (354)	3730 (2790)	557 (416)
14	17 (11)	1100 (504)	1070 (518)	969 (478)					444 (366)	656 (541)	4660 (3850)	710 (586)	432 (406)	589 (553)	4540 (4260)	692 (650)
15	15 (6)	758 (377)	853 (375)	691 (317)	444 (264)	653 (388)	4440 (2640)	711 (423)	421 (250)	622 (369)	4330 (2570)	673 (400)	399 (260)	544 (354)	4110 (2670)	639 (415)
16	15 (6)	1330 (635)	1720 (746)	1130 (611)									407 (517)	555 (704)	4100 (5210)	651 (827)
17	21 (9)	1380 (754)	1790 (903)	1190 (921)	395 (612)	582 (900)	3810 (5890)	632 (979)	509 (638)	753 (944)	5050 (6320)	815 (1020)	319 (557)	435 (759)	3160 (5510)	511 (892)
18	12 (8)	1430 (592)	1450 (629)	1120 (557)	279 (503)	411 (741)	2650 (4780)	447 (805)	334 (456)	494 (674)	3250 (4440)	535 (730)	197 (378)	268 (515)	1910 (3670)	315 (605)
19	6 (7)	1260 (620)	1230 (775)	1170 (537)												
20	11 (5)	1220 (453)	1210 (414)	1300 (493)	324 (422)	477 (621)	2970 (3870)	518 (675)	437 (386)	646 (571)	4100 (3630)	699 (618)	354 (491)	482 (669)	3300 (4570)	566 (785)
21	13 (6)	1220 (504)	1340 (573)	1310 (588)	367 (495)	541 (729)	3320 (4470)	588 (792)	492 (500)	728 (740)	4540 (4620)	787 (800)	394 (563)	537 (767)	3610 (5150)	630 (901)
22	19 (6)	1310 (871)	1250 (489)	1160 (493)	356 (557)	525 (821)	3170 (4950)	570 (891)	440 (435)	651 (645)	3990 (3950)	704 (697)	359 (477)	489 (650)	3230 (4290)	574 (763)
23	23 (7)	1140 (478)	1360 (789)	1120 (485)	370 (445)	546 (656)	3240 (3900)	592 (713)	467 (500)	691 (740)	4170 (4460)	747 (799)	398 (479)	542 (653)	3520 (4240)	637 (767)
24	20 (9)	1170 (660)	1330 (624)	1080 (567)	384 (505)	567 (744)	3320 (4360)	615 (807)	439 (485)	650 (718)	3860 (4260)	703 (776)	390 (480)	533 (655)	3400 (4180)	625 (769)
25	9 (8)	790 (474)	840 (505)	739 (449)	334 (338)	493 (498)	2850 (2880)	535 (541)	327 (286)	484 (423)	2830 (2480)	523 (457)	330 (332)	451 (453)	2830 (2850)	529 (532)
26																
27																
28																
29																
30																
31																
Avg	15	1150	1250	1060	271	399	2530	434	232	343	2230	371	247	337	2380	396
n	13	13	13	13	14	14	14	14	21	21	21	21	18	18	18	18
SD	5	215	297	193	154	227	1440	247	208	308	1980	333	168	229	1620	269
Min	6	758	785	691	11	15	120	17	6	8	61	9	5	6	54	7
Max	23	1430	1790	1310	444	653	4440	711	509	753	5050	815	432	589	4540	692

Table F7. Hydrogen sulfide concentrations.

Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for March, 2008.

Day	Inlet		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1								
2								
3								
4								
5								
6	5.4 (2.5)	7.7 (3.6)	154 (253)	243 (385)				
7	5.4 (4.6)	7.7 (6.6)						
8	3.5 (1.1)	4.9 (1.6)	127 (44)	184 (63)	127 (54)	184 (78)	11 (9)	16 (13)
9	4.5 (1.5)	6.5 (2.1)	250 (62)	357 (91)	225 (82)	317 (118)	22 (5)	31 (7)
10	5.4 (2.3)	7.7 (3.3)	307 (116)	440 (166)	271 (112)	387 (160)	29 (19)	41 (27)
11	6.2 (2.0)	8.8 (2.9)	320 (102)	459 (147)	341 (142)	488 (203)	129 (43)	185 (62)
12								
13								
14								
15	9.1 (10.7)	12.9 (15.2)	219 (67)	314 (96)	191 (55)	274 (79)	389 (103)	560 (148)
16	6.0 (3.0)	8.6 (4.2)	264 (78)	379 (112)	213 (52)	304 (74)	532 (137)	764 (198)
17	11.6 (3.6)	16.5 (5.0)	414 (203)	592 (290)	325 (71)	465 (102)	666 (130)	954 (187)
18	3.8 (2.7)	5.4 (3.8)	325 (121)	466 (174)	247 (83)	354 (119)	621 (137)	890 (195)
19	1.2 (1.2)	1.7 (1.7)	206 (60)	296 (86)	144 (55)	207 (79)	379 (172)	544 (247)
20	2.0 (1.6)	2.9 (2.3)	328 (130)	471 (187)	223 (80)	320 (115)	615 (261)	882 (379)
21	2.1 (1.4)	2.9 (2.0)	398 (171)	571 (247)	268 (122)	386 (175)	692 (283)	996 (410)
22	0.6 (1.2)	0.9 (1.7)	260 (123)	372 (176)	175 (86)	250 (123)	415 (241)	595 (346)
23	12.5 (3.0)	17.7 (4.2)	336 (84)	481 (121)	258 (53)	368 (75)	573 (145)	820 (209)
24	8.3 (2.5)	11.8 (3.6)	374 (69)	536 (99)	258 (43)	369 (62)	598 (137)	857 (196)
25	4.2 (2.9)	5.9 (4.1)	456 (345)	654 (499)	280 (103)	402 (147)	662 (272)	948 (394)
26	1.0 (2.1)	1.4 (3.0)	237 (83)	339 (119)	177 (69)	253 (99)	386 (174)	554 (249)
27	0.5 (1.5)	0.6 (2.2)	191 (89)	273 (127)	143 (55)	204 (79)	257 (172)	368 (247)
28	-0.9 (1.2)	-1.3 (1.7)	149 (53)	213 (76)	115 (46)	164 (65)	169 (106)	243 (153)
29	8.0 (2.6)	11.3 (3.7)	322 (77)	462 (111)	276 (72)	394 (103)	335 (133)	481 (191)
30	9.4 (1.7)	13.4 (2.4)	384 (31)	551 (44)	345 (18)	495 (26)	447 (29)	641 (41)
31	4.1 (3.7)	5.9 (5.3)	323 (161)	464 (231)	263 (93)	378 (134)	424 (329)	609 (473)
Avg	4.94	7.04	288	414	232	331	398	570
n	23	23	22	22	21	21	21	21
SD	3.53	5.02	88.3	125	66.3	94.6	217	312
Min	-0.9	-1.3	127	184	115	164	11	16
Max	12.5	17.7	456	654	345	495	692	996

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for April, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	0.9 (0.4)	1.3 (0.6)	159 (43)	228 (62)	136 (43)	195 (62)	217 (85)	312 (122)
2	8.3 (4.9)	11.8 (6.9)	212 (58)	305 (82)	189 (76)	271 (108)	297 (96)	425 (137)
3	5.5 (4.0)	7.9 (5.7)	314 (22)	450 (31)	271 (76)	387 (108)	373 (137)	535 (197)
4	0.1 (1.1)	0.1 (1.6)	218 (78)	313 (112)	134 (50)	192 (72)	243 (118)	348 (169)
5	5.6 (2.7)		257 (43)	367 (63)	141 (31)	205 (45)	162 (33)	236 (47)
6	7.6 (3.6)	10.9 (5.1)	356 (115)	537 (163)	224 (72)	322 (103)	264 (95)	379 (136)
7	10.9 (1.9)	15.6 (2.8)	495 (127)	710 (182)	327 (75)	468 (107)	434 (68)	622 (98)
8	10.2 (2.4)	14.6 (3.5)	377 (160)	541 (229)	277 (91)	397 (131)	423 (76)	607 (108)
9	8.1 (3.3)	11.6 (4.7)	286 (83)	411 (120)	231 (105)	332 (150)	392 (79)	563 (113)
10	4.4 (2.9)	6.4 (4.2)	146 (31)	209 (45)	227 (105)	326 (150)	324 (136)	465 (195)
11	6.0 (7.7)	8.6 (11.0)	113 (41)	162 (60)	82 (57)	117 (82)	189 (115)	272 (166)
12	7.4 (12.1)	10.6 (17.4)	155 (62)	223 (89)	82 (51)	118 (74)	179 (157)	257 (225)
13	0.8 (1.1)	1.2 (1.5)	238 (61)	341 (87)	126 (40)	181 (57)	174 (59)	249 (85)
14	4.9 (3.5)	6.9 (5.0)	346 (87)	496 (125)	207 (55)	295 (78)	219 (35)	314 (50)
15	11.6 (4.3)	16.5 (6.1)	366 (103)	524 (148)	207 (64)	296 (92)	246 (53)	352 (76)
16	9.6 (3.7)	13.6 (5.3)	400 (140)	572 (201)	222 (97)	318 (138)	265 (86)	379 (124)
17	2.4 (1.8)	3.4 (2.6)	323 (157)	463 (225)	179 (107)	256 (153)	261 (131)	373 (187)
18	1.2 (1.2)	1.7 (1.7)	282 (177)	403 (254)	133 (87)	190 (124)	238 (148)	341 (212)
19	0.6 (0.9)	0.8 (1.2)	325 (202)	466 (290)	124 (68)	177 (98)	212 (82)	304 (117)
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
Avg	5.59	7.97	282	406	185	265	269	386
n	19	18	19	19	19	19	19	19
SD	3.66	5.36	97.2	140	65.7	93.9	81.6	117
Min	0.1	0.1	113	162	82	117	162	236
Max	11.6	16.5	495	710	327	468	434	622

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for May, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1								
2								
3								
4	1.4 (0.7)	2.0 (1.0)	162 (108)	233 (156)	117 (57)	169 (82)	117 (39)	168 (56)
5	6.2 (5.9)	8.9 (8.5)	273 (124)	393 (179)	195 (46)	280 (66)	147 (96)	211 (138)
6	1.9 (1.1)	2.7 (1.6)	131 (47)	189 (68)	121 (51)	174 (73)	90 (30)	129 (44)
7	0.9 (0.5)	1.3 (0.7)	100 (51)	145 (73)	97 (50)	140 (72)	83 (28)	119 (39)
8	0.8 (0.4)	1.1 (0.6)	117 (58)	168 (83)	80 (37)	115 (52)	97 (28)	140 (40)
9	0.8 (0.9)	1.1 (1.4)	84 (34)	121 (48)	62 (27)	90 (39)	103 (20)	147 (29)
10	6.0 (2.7)	8.5 (3.8)	126 (67)	181 (96)	116 (67)	167 (96)	164 (60)	236 (86)
11	5.4 (4.4)	7.7 (6.3)	183 (71)	263 (102)	161 (67)	231 (96)	228 (55)	327 (78)
12	2.1 (2.6)	3.0 (3.7)	231 (169)	331 (243)	198 (65)	283 (93)	256 (86)	366 (123)
13	4.3 (2.0)	6.2 (2.8)	115 (30)	165 (43)	136 (56)	195 (80)	155 (34)	222 (49)
14	0.9 (0.5)	1.3 (0.7)	95 (33)	136 (47)	98 (62)	141 (89)	122 (50)	175 (72)
15	0.6 (0.7)	0.8 (1.0)	135 (110)	194 (158)	91 (68)	131 (98)	136 (64)	195 (91)
16	0.4 (0.5)	0.5 (0.7)	75 (32)	108 (46)	61 (20)	88 (29)	80 (28)	115 (40)
17	0.5 (0.8)	0.7 (1.1)	152 (58)	218 (84)	108 (49)	154 (70)	190 (71)	272 (102)
18	0.8 (0.5)	1.1 (0.7)	155 (89)	223 (127)	95 (50)	137 (72)	193 (81)	277 (116)
19	17.7 (23.4)	25.3 (33.4)	182 (67)	262 (97)	99 (47)	142 (67)	207 (131)	297 (188)
20	2.0 (1.4)	2.8 (1.9)	141 (69)	203 (99)	83 (46)	120 (65)	110 (58)	158 (83)
21	0.8 (0.7)	1.2 (1.1)	124 (50)	179 (72)	91 (40)	130 (58)	136 (44)	195 (63)
22	2.3 (2.0)	3.4 (2.9)	157 (89)	226 (128)	131 (62)	188 (89)	185 (78)	265 (111)
23	6.9 (5.1)	9.8 (7.3)	115 (58)	165 (84)	95 (55)	136 (79)	125 (54)	179 (77)
24	7.1 (5.5)	10.1 (7.9)	161 (32)	231 (47)	110 (34)	158 (49)	164 (31)	235 (44)
25	4.1 (3.1)	5.9 (4.4)	164 (79)	235 (114)	108 (63)	155 (91)	161 (65)	231 (93)
26	1.8 (1.8)	2.6 (2.6)	144 (93)	206 (133)	98 (70)	140 (100)	136 (78)	196 (112)
27	1.0 (0.4)	1.4 (0.6)	130 (99)	188 (142)	76 (46)	109 (66)	137 (74)	197 (106)
28	6.8 (4.8)	9.8 (6.9)	210 (68)	302 (97)	140 (58)	201 (83)	264 (70)	379 (101)
29	11.5 (10.5)	16.4 (15.1)	395 (830)	567 (1190)	164 (142)	235 (204)	236 (130)	338 (186)
30	1.0 (1.0)	1.4 (1.4)	106 (71)	153 (102)	83 (47)	119 (67)	112 (61)	161 (87)
31	0.5 (0.6)	0.7 (0.9)	75 (38)	108 (54)	58 (21)	83 (31)	74 (38)	107 (55)
Avg	3.44	4.92	151	218	110	158	150	216
n	28	28	28	28	28	28	28	28
SD	3.9	5.57	64.5	92.7	35.5	50.9	52.1	74.7
Min	0.4	0.5	75	108	58	83	74	107
Max	17.7	25.3	395	567	198	283	264	379

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for June, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	2.9 (2.6)	4.2 (3.8)	93 (48)	134 (69)	44 (20)	63 (28)	106 (59)	153 (86)
2	6.4 (3.1)	9.2 (4.4)	152 (134)	219 (194)	90 (38)	129 (54)	129 (102)	185 (147)
3	0.8 (0.4)	1.2 (0.6)	91 (57)	132 (83)	69 (18)	100 (26)	98 (50)	141 (72)
4	0.1 (0.6)	0.1 (0.8)	62 (37)	90 (53)	53 (14)	77 (20)	72 (39)	104 (57)
5	0.3 (0.5)	0.4 (0.7)	60 (30)	86 (43)	58 (26)	83 (38)	88 (89)	128 (128)
6	0.5 (0.6)	0.7 (0.9)	60 (29)	86 (42)	49 (7)	71 (10)	65 (42)	94 (60)
7	0.7 (0.7)	1.0 (1.0)	69 (33)	100 (48)	39 (17)	56 (24)	75 (45)	109 (65)
8	1.1 (1.2)	1.5 (1.8)	80 (55)	115 (79)	31 (14)	44 (21)	64 (48)	93 (70)
9	1.4 (0.9)	2.1 (1.3)	87 (59)	125 (85)	37 (27)	53 (38)	34 (31)	49 (44)
10	1.7 (2.0)	2.4 (2.9)	72 (34)	104 (49)	23 (10)	33 (15)	27 (15)	39 (22)
11								
12								
13	2.5 (3.8)	3.6 (5.4)	113 (78)	163 (112)	52 (30)	75 (43)	87 (56)	125 (81)
14	1.0 (1.2)	1.5 (1.8)	116 (82)	166 (118)	52 (34)	75 (49)	96 (67)	138 (96)
15	2.7 (2.9)	3.9 (4.2)	133 (67)	192 (97)	41 (14)	59 (20)	113 (40)	162 (58)
16	0.7 (0.6)	1.0 (0.8)	135 (89)	195 (128)	36 (22)	52 (32)	116 (84)	167 (121)
17	1.5 (2.0)	2.1 (2.9)	111 (67)	161 (97)	29 (11)	41 (15)	88 (41)	127 (59)
18	6.3 (3.4)	9.0 (4.8)	138 (78)	198 (112)	49 (29)	71 (42)	168 (94)	242 (134)
19	2.5 (2.7)	3.6 (3.9)	138 (85)	198 (123)	66 (48)	94 (68)	194 (146)	278 (210)
20	3.0 (3.1)	4.4 (4.4)	204 (333)	295 (481)	106 (125)	152 (180)	229 (134)	330 (193)
21	1.1 (1.1)	1.5 (1.6)	97 (47)	140 (68)	72 (37)	104 (53)	168 (70)	242 (100)
22	1.4 (1.1)	2.0 (1.6)						
23	0.9 (0.5)	1.3 (0.7)	121 (161)	175 (232)	84 (81)	120 (116)	170 (117)	245 (168)
24	1.1 (0.7)	1.6 (1.0)	64 (29)	92 (42)	82 (52)	118 (75)	133 (85)	191 (122)
25	0.6 (0.9)	0.8 (1.2)	49 (35)	71 (50)	70 (57)	101 (82)	128 (95)	185 (137)
26	0.2 (0.5)	0.3 (0.7)	83 (126)	120 (182)	56 (30)	80 (43)	161 (62)	232 (90)
27	0.5 (0.6)	0.7 (0.9)	52 (22)	75 (31)	46 (26)	67 (38)	111 (27)	160 (39)
28	-0.2 (0.6)	-0.3 (0.9)	54 (24)	77 (34)	46 (23)	66 (33)	116 (27)	168 (39)
29	-0.1 (0.6)	-0.1 (0.8)	66 (29)	96 (41)	55 (16)	79 (24)	115 (45)	166 (66)
30	0.1 (0.6)	0.1 (0.8)	67 (28)	97 (40)	55 (22)	80 (32)	134 (64)	193 (92)
Avg	1.48	2.12	95.1	137	55.1	79.3	114	165
n	28	28	27	27	27	27	27	27
SD	1.62	2.32	37.1	53.5	19.3	27.7	45.9	66
Min	-0.2	-0.3	49	71	23	33	27	39
Max	6.4	9.2	204	295	106	152	229	330

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for July, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	5.4 (9.8)	7.7 (14.0)	66 (35)	94 (50)	72 (39)	103 (56)	125 (59)	179 (85)
2	1.5 (2.3)	2.1 (3.2)	76 (59)	108 (85)	83 (73)	118 (105)	142 (94)	203 (136)
3	1.2 (1.5)	1.7 (2.1)	84 (58)	121 (83)	81 (58)	117 (83)	134 (94)	193 (135)
4	0.2 (0.6)	0.3 (0.8)	66 (34)	95 (49)	76 (24)	110 (35)	89 (39)	128 (56)
5								
6								
7								
8								
9	2.7 (3.5)	3.9 (5.0)	82 (46)	118 (67)	95 (44)	137 (64)	154 (128)	185 (154)
10	0.7 (0.6)	1.1 (0.8)	100 (50)	147 (71)	99 (26)	140 (35)	109 (54)	156 (79)
11	3.7 (1.4)							
12	6.6 (2.1)	9.4 (3.0)	112 (68)	161 (97)	78 (29)	112 (41)	116 (64)	
13	2.9 (1.0)	4.2 (1.5)	111 (74)	165 (106)	77 (42)	113 (61)	121 (81)	
14	2.1 (0.9)	3.1 (1.2)	163 (234)	235 (339)	79 (24)	114 (35)	153 (166)	
15	6.9 (4.5)	10.0 (6.4)	88 (35)	126 (51)	74 (31)	107 (45)	82 (27)	
16	9.9 (1.9)	14.4 (2.7)	89 (53)	132 (76)	69 (27)	101 (39)	111 (70)	
17	9.1 (2.0)	13.1 (2.8)	111 (84)	159 (121)	90 (47)	129 (67)	162 (151)	
18	4.9 (2.7)	7.1 (3.9)	71 (45)	103 (65)	61 (25)	88 (36)	108 (61)	156 (88)
19	9.5 (2.2)	13.7 (3.2)	66 (25)	96 (36)	64 (15)	93 (22)	107 (44)	154 (64)
20	3.5 (2.3)	5.0 (3.4)	67 (31)	97 (44)	73 (18)	105 (26)	130 (83)	188 (120)
21	0.6 (0.4)	0.9 (0.6)	73 (49)	106 (70)	90 (60)	130 (87)	156 (252)	225 (365)
22	0.9 (0.6)	1.2 (0.8)	63 (25)	91 (35)	73 (19)	105 (28)	90 (39)	130 (57)
23	5.7 (2.6)	8.2 (3.7)	75 (38)	109 (55)	70 (34)	101 (49)	114 (36)	165 (52)
24	2.1 (1.2)	3.1 (1.8)	146 (112)	210 (161)	85 (35)	123 (51)	136 (57)	195 (82)
25	6.6 (0.6)	9.5 (0.9)						
26	4.8 (4.4)	6.8 (6.3)					135 (74)	194 (106)
27	1.1 (1.0)	1.5 (1.5)					108 (38)	156 (55)
28	4.1 (2.8)	5.9 (4.1)					119 (91)	172 (131)
29	14.6 (16.6)	21.0 (24.0)					32 (22)	45 (31)
30								
31								
Avg	4.44	6.45	89.9	130	78.4	113	119	166
n	25	24	19	19	19	19	23	17
SD	3.49	5.14	27.1	39.5	9.75	13.7	28.3	39.2
Min	0.2	0.3	63	91	61	88	32	45
Max	14.6	21.0	163	235	99	140	162	225

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for August, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1								
2								
3								
4								
5								
6								
7								
8								
9	4.2 (1.0)	6.0 (1.5)	98 (60)	143 (87)	72 (41)	105 (59)		
10	0.2 (0.6)	0.3 (0.9)	153 (63)	221 (91)	68 (25)	97 (35)	16 (9)	
11	1.2 (2.6)	1.7 (3.8)	234 (100)	337 (145)	114 (102)	164 (146)	92 (55)	
12	5.0 (8.2)	7.2 (11.8)	197 (108)	284 (155)	69 (35)	100 (50)	131 (50)	
13	21.6 (16.1)	31.1 (23.1)	301 (40)	435 (58)	102 (19)	147 (28)	212 (29)	306 (42)
14	10.1 (7.7)	14.4 (11.1)	235 (67)	339 (97)	113 (32)	163 (46)	183 (75)	263 (109)
15	3.6 (2.7)	5.2 (3.9)	160 (76)	231 (110)	102 (46)	146 (67)	152 (60)	218 (87)
16	3.2 (2.6)	4.6 (3.8)	157 (53)	226 (77)	106 (31)	153 (45)	186 (53)	268 (76)
17	0.1 (0.7)	0.2 (1.1)	170 (62)	248 (89)	133 (30)	192 (43)	213 (58)	311 (84)
18	3.6 (1.1)	5.2 (1.5)	170 (80)	245 (116)	134 (51)	193 (74)	230 (127)	
19	0.4 (0.9)	0.6 (1.2)	113 (60)	164 (87)	115 (52)	166 (75)	170 (116)	
20	1.5 (1.5)	2.2 (2.1)	100 (50)	144 (72)	113 (52)	163 (74)	141 (77)	
21	7.7 (1.1)	11.1 (1.6)	126 (40)	182 (58)	117 (30)	168 (44)	157 (46)	
22	6.2 (2.5)	8.9 (3.6)	86 (34)	124 (49)	113 (49)	163 (71)	134 (60)	
23	4.0 (2.7)	5.7 (3.9)	82 (32)	118 (46)	105 (44)	152 (64)	127 (53)	
24	2.8 (0.4)	4.1 (0.6)	93 (41)	134 (59)	100 (51)	144 (74)	140 (76)	
25	1.8 (0.6)							
26	3.9 (0.8)							
27	3.4 (1.9)	4.9 (2.8)	73 (4)	105 (6)	77 (15)	112 (22)	130 (31)	188 (44)
28	1.1 (0.5)	1.6 (0.7)	68 (19)	99 (28)	71 (18)	103 (26)	119 (35)	172 (51)
29	3.6 (1.8)	5.3 (2.6)	84 (33)	120 (47)	97 (36)	140 (52)	146 (56)	212 (81)
30	1.5 (1.0)	2.2 (1.4)	84 (38)	122 (55)	84 (34)	121 (48)	137 (58)	198 (84)
31	5.4 (2.1)	7.7 (3.0)						
Avg	4.18	6.2	139	201	100	145	148	237
n	23	21	20	20	20	20	19	9
SD	4.41	6.58	62.7	90.4	19.9	28.6	46.5	48.3
Min	0.1	0.2	68	99	68	97	16	172
Max	21.6	31.1	301	435	134	193	230	311

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for September, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	5.2 (0.7)	7.5 (1.0)	104 (44)	150 (63)	124 (39)	179 (56)	163 (57)	235 (83)
2	3.7 (1.2)	5.3 (1.6)	66 (28)	95 (40)	95 (47)	136 (67)	155 (82)	223 (118)
3	0.8 (0.5)	1.2 (0.8)	71 (31)	103 (45)	83 (42)	119 (60)	143 (79)	205 (114)
4	4.6 (4.7)	6.6 (6.8)	74 (36)	106 (51)	85 (44)	123 (63)	159 (94)	229 (136)
5	19.3 (1.6)	27.8 (2.3)	77 (34)	111 (49)	73 (37)	105 (53)	129 (79)	186 (114)
6								
7								
8								
9								
10								
11								
12	1.0 (1.0)	1.4 (1.4)	119 (47)	172 (67)	89 (29)	129 (42)	155 (53)	224 (76)
13	1.4 (1.0)	2.0 (1.5)	114 (49)	164 (71)	87 (29)	126 (42)	126 (59)	182 (85)
14	1.6 (0.8)	2.3 (1.2)	110 (47)	159 (67)	87 (32)	126 (46)	120 (51)	173 (74)
15	5.0 (4.4)	7.2 (6.3)	105 (39)	151 (56)	99 (32)	143 (46)	139 (63)	201 (91)
16	13.8 (6.8)	19.8 (9.8)	92 (19)	133 (27)	113 (26)	163 (37)	163 (32)	235 (46)
17	18.0 (8.0)	25.8 (11.5)	84 (16)	120 (24)	151 (28)	217 (41)	263 (55)	379 (78)
18	8.9 (3.0)	12.8 (4.3)	126 (40)	180 (57)	184 (90)	265 (129)	386 (141)	555 (202)
19	12.3 (2.6)	17.7 (3.7)	156 (38)	224 (54)	233 (104)	335 (149)	416 (94)	599 (136)
20	10.9 (2.0)	15.6 (2.9)	210 (31)	302 (45)	267 (121)	384 (173)	481 (83)	692 (118)
21	10.1 (0.7)	14.4 (1.0)						
22	14.3 (2.0)	20.4 (2.8)	307 (215)	441 (310)	284 (218)	408 (314)	443 (246)	637 (354)
23	12.4 (1.4)	17.7 (2.0)	180 (28)	258 (40)	144 (81)	207 (117)	176 (98)	253 (141)
24	11.0 (2.9)	15.7 (4.2)	177 (87)	255 (124)	82 (13)	117 (19)	123 (14)	177 (20)
25	10.6 (3.6)	15.2 (5.1)	81 (12)	116 (17)	111 (18)	160 (26)	144 (9)	207 (13)
26	1.5 (1.4)	2.1 (2.0)	102 (19)	147 (28)	100 (18)	144 (26)	141 (25)	204 (36)
27	3.5 (1.7)	5.0 (2.5)	162 (30)	233 (43)	153 (63)	221 (91)	173 (40)	250 (57)
28	0.7 (1.0)	1.1 (1.4)	230 (49)	330 (71)	218 (92)	313 (132)	217 (59)	312 (85)
29	3.0 (0.0)	4.3 (0.0)						
30	1.9 (0.7)	2.8 (1.0)	391 (66)	562 (95)	409 (112)	589 (162)	366 (63)	528 (90)
Avg	7.31	10.5	143	205	149	214	217	313
n	24	24	22	22	22	22	22	22
SD	5.65	8.11	80	115	83.7	120	115	165
Min	0.7	1.1	66	95	73	105	120	173
Max	19.3	27.8	391	562	409	589	481	692

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for October, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	3.7 (1.7)	5.4 (2.5)	510 (97)	733 (139)	522 (176)	752 (253)	496 (131)	716 (188)
2	4.5 (3.0)	6.4 (4.2)	713 (157)	1020 (226)	709 (227)	1020 (326)	762 (177)	1090 (255)
3	6.1 (5.0)	8.7 (7.1)	673 (223)	965 (319)	753 (306)	1080 (439)	735 (234)	1060 (336)
4	3.0 (2.8)	4.3 (3.9)	669 (199)	959 (285)	708 (354)	1020 (507)	657 (222)	945 (319)
5	13.9 (5.0)	19.4 (7.3)	670 (169)	984 (238)	792 (284)	1140 (408)	734 (260)	1100 (364)
6	19.5 (2.3)	28.0 (3.3)	543 (210)	778 (301)	547 (362)	785 (520)	605 (273)	869 (392)
7	11.8 (4.1)	17.0 (5.9)	347 (67)	497 (97)	425 (179)	610 (257)	492 (84)	708 (120)
8	5.7 (2.7)	8.1 (3.9)	362 (73)	520 (104)	481 (267)	691 (383)	492 (159)	707 (228)
9	3.9 (1.6)	5.6 (2.3)	343 (92)	493 (132)	334 (160)	481 (230)	422 (141)	608 (203)
10	18.2 (4.1)	26.2 (5.9)	334 (48)	480 (69)	313 (99)	451 (143)	421 (235)	607 (340)
11	22.5 (4.6)	32.4 (6.7)	296 (45)	426 (64)	268 (72)	386 (104)	339 (19)	489 (27)
12	20.9 (3.4)	29.9 (4.9)	268 (48)	386 (69)	287 (115)	413 (165)	321 (54)	462 (78)
13	13.9 (3.8)	19.9 (5.4)	297 (87)	427 (124)	335 (163)	482 (234)	351 (89)	505 (128)
14	13.1 (4.7)	18.7 (6.8)	328 (118)	471 (169)	403 (234)	579 (335)	397 (145)	572 (209)
15	3.2 (0.7)	4.6 (1.1)	335 (159)	480 (228)	381 (247)	548 (354)	410 (186)	591 (268)
16	2.8 (0.7)	4.0 (1.0)	329 (129)	472 (185)	334 (198)	480 (284)	388 (154)	559 (222)
17	14.0 (8.8)	20.1 (12.6)	389 (85)	560 (121)	393 (144)	565 (207)	425 (79)	613 (114)
18	15.3 (3.4)	21.8 (4.9)	601 (68)	863 (97)	753 (61)	1080 (88)	610 (54)	879 (77)
19	21.1 (2.9)	30.1 (4.0)	606 (108)	868 (154)	779 (121)	1120 (173)	723 (167)	1040 (239)
20	11.7 (6.7)	16.6 (9.5)	687 (604)	984 (866)	906 (677)	1300 (972)	851 (579)	1220 (833)
21	2.4 (2.6)	3.5 (3.7)	382 (132)	547 (189)	408 (124)	585 (178)	355 (130)	509 (187)
22	7.5 (2.5)	10.6 (3.6)	450 (108)	645 (154)	482 (73)	690 (104)	401 (75)	575 (108)
23	8.4 (3.5)	12.0 (4.9)	467 (131)	669 (187)	529 (109)	758 (156)	485 (93)	695 (134)
24	15.5 (2.7)	22.2 (3.8)	452 (52)	648 (75)	559 (85)	803 (122)	533 (57)	767 (81)
25	2.8 (3.0)	4.1 (4.3)	378 (103)	544 (147)	305 (117)	439 (168)	462 (101)	666 (145)
26	1.5 (0.7)	2.1 (1.0)	620 (137)	889 (196)	594 (216)	853 (310)	717 (135)	1030 (195)
27	7.9 (5.8)	11.3 (8.2)	826 (459)	1180 (659)	713 (374)	1020 (537)	725 (383)	1040 (550)
28	1.8 (3.7)	2.6 (5.3)	427 (65)	611 (93)	297 (98)	425 (141)	231 (77)	331 (110)
29	1.1 (2.9)	1.5 (4.2)	413 (70)	592 (99)	173 (44)	249 (62)	178 (38)	254 (54)
30	10.9 (4.0)	15.5 (5.6)	415 (81)	594 (115)	190 (27)	272 (39)	234 (57)	335 (82)
31	5.7 (3.9)	8.0 (5.7)	457 (118)	653 (168)	253 (65)	362 (94)	373 (107)	535 (154)
Avg	9.49	13.6	471	676	481	691	494	712
n	31	31	31	31	31	31	31	31
SD	6.53	9.34	147	212	197	282	173	250
Min	1.1	1.5	268	386	173	249	178	254
Max	22.5	32.4	826	1180	906	1300	851	1220

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for November, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	8.3 (5.3)	11.8 (7.5)	503 (176)	720 (252)	348 (128)	498 (184)	564 (192)	809 (275)
2	16.7 (1.7)	23.9 (2.5)						
3	14.5 (6.0)	20.7 (8.7)						
4	23.1 (8.0)	33.2 (11.5)						
5	11.9 (6.1)	17.1 (8.8)	278 (39)	399 (56)	292 (71)	420 (101)	463 (75)	665 (107)
6	0.3 (1.1)	0.4 (1.5)	364 (217)	522 (311)	528 (351)	757 (504)	493 (152)	707 (217)
7	-0.6 (0.7)	-0.8 (1.0)	283 (103)	405 (148)	427 (194)	612 (278)	520 (176)	746 (252)
8	-3.6 (2.7)		256 (100)		360 (168)		423 (175)	
9	-0.1 (4.5)		239 (118)		410 (444)		370 (272)	
10	2.7 (2.6)	3.8 (3.7)	403 (470)	576 (673)	945 (332)	1350 (475)	658 (251)	942 (360)
11	15.2 (5.2)	21.6 (7.5)	245 (63)	350 (90)	796 (227)	1140 (325)	617 (104)	883 (148)
12	22.8 (7.0)	32.4 (9.9)	231 (42)	331 (60)	644 (215)	921 (308)	457 (83)	655 (118)
13	7.6 (6.3)	10.9 (8.9)	215 (114)	308 (164)	447 (167)	642 (239)	426 (177)	613 (256)
14	4.8 (4.2)	6.8 (6.0)	199 (30)	286 (44)	382 (69)	549 (99)	384 (66)	552 (94)
15	0.0 (2.5)	-0.1 (3.6)	206 (91)	296 (130)	344 (161)	494 (231)	320 (149)	460 (213)
16	0.3 (1.6)	0.4 (2.3)	513 (95)	734 (135)	747 (140)	1070 (200)	720 (96)	1030 (137)
17	2.6 (2.0)	3.8 (2.8)	606 (126)	867 (181)	711 (165)	1020 (235)	781 (125)	1120 (179)
18	6.3 (3.3)	8.9 (4.8)	848 (326)	1210 (466)	930 (385)	1330 (552)	906 (418)	1300 (599)
19	0.9 (3.6)	1.5 (5.7)	506 (190)	721 (272)	653 (87)	932 (124)	671 (98)	960 (140)
20	2.2 (2.0)	2.6 (2.7)	453 (107)	647 (153)	569 (140)	813 (200)	604 (148)	865 (211)
21	10.4 (3.3)	14.8 (4.7)	414 (63)	591 (90)	555 (64)	792 (92)	646 (80)	924 (114)
22	3.8 (2.4)		382 (59)	544 (84)	614 (109)	876 (155)	800 (127)	1140 (181)
23	4.9 (5.4)	6.5 (7.5)	320 (58)	456 (82)	602 (143)	860 (204)	796 (148)	1140 (212)
24	6.5 (3.3)		444 (485)	634 (692)	671 (242)	959 (346)	770 (325)	1100 (465)
25	5.8 (4.6)	8.3 (6.6)	177 (32)	253 (45)	530 (141)	758 (202)	481 (93)	688 (133)
26	5.3 (3.0)	6.6 (4.2)	206 (132)	294 (188)	746 (193)	1070 (277)	581 (145)	831 (208)
27	2.9 (2.4)		173 (48)	246 (68)	673 (214)	962 (306)	447 (108)	638 (154)
28	3.0 (1.9)	4.2 (2.8)	183 (44)	261 (63)	588 (160)	841 (229)	429 (76)	614 (108)
29	12.8 (2.8)	18.2 (3.9)	247 (28)	353 (39)	623 (53)	893 (75)	379 (86)	542 (124)
30	6.1 (2.2)	8.7 (3.2)	228 (36)	328 (52)	500 (110)	717 (158)	292 (79)	417 (114)
Avg	6.57	10.6	338	493	579	851	556	814
n	30	25	27	25	27	25	27	25
SD	6.6	9.58	157	230	169	236	163	232
Min	-3.6	-0.8	173	246	292	420	292	417
Max	23.1	33.2	848	1210	945	1350	906	1300

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for December, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	3.0 (3.3)	4.3 (4.7)	351 (80)	501 (114)	665 (244)	951 (350)	507 (101)	725 (144)
2	3.2 (2.9)	4.7 (4.1)	442 (49)	630 (70)	738 (118)	1060 (168)	548 (66)	784 (94)
3	1.7 (2.4)		406 (105)	579 (149)	749 (221)	1070 (317)	572 (111)	818 (159)
4	0.5 (1.3)	0.7 (1.9)	376 (108)	536 (155)	647 (196)	926 (281)	469 (106)	671 (151)
5	6.5 (3.1)	9.3 (4.4)	436 (48)	623 (69)	601 (174)	860 (249)	501 (94)	717 (135)
6	9.9 (4.0)	14.2 (5.7)	389 (73)	555 (104)	617 (126)	883 (180)	480 (83)	686 (119)
7	5.8 (2.8)	9.3 (3.5)	432 (38)	617 (55)	650 (143)	929 (205)	483 (58)	691 (82)
8	2.6 (2.9)		388 (105)	554 (150)	709 (271)	1010 (389)	568 (175)	812 (250)
9	1.3 (2.8)	1.8 (3.9)	271 (65)	388 (92)	453 (120)	649 (171)	344 (140)	493 (199)
10	0.7 (0.5)	1.0 (0.7)	211 (37)	303 (53)	299 (76)	430 (109)	176 (35)	253 (51)
11	0.8 (0.5)	1.1 (0.8)	230 (34)	331 (48)	362 (81)	521 (116)	218 (62)	314 (89)
12	2.1 (1.7)	2.9 (2.5)	548 (549)	783 (786)	738 (222)	1060 (317)	495 (90)	709 (128)
13	10.2 (4.7)							
14	2.9 (3.3)	4.2 (4.7)	347 (74)	496 (105)	534 (155)	765 (221)	359 (125)	514 (179)
15	1.2 (1.0)	1.7 (1.5)	288 (60)	412 (86)	369 (75)	529 (107)	259 (27)	371 (39)
16	12.4 (5.6)	17.7 (8.1)	366 (136)	524 (195)	519 (92)	744 (132)	357 (121)	513 (173)
17	2.4 (2.6)	3.4 (3.7)	266 (62)	383 (88)	427 (99)	615 (142)	236 (70)	342 (101)
18	-1.3 (0.6)	-1.8 (0.8)	224 (20)	321 (29)	432 (47)	620 (67)	209 (27)	300 (39)
19	0.2 (0.8)	0.3 (1.2)	246 (89)	352 (128)	461 (83)	662 (120)	239 (92)	342 (132)
20	-0.2 (0.4)	-0.4 (0.6)	258 (51)		415 (113)		253 (42)	
21								
22								
23								
24								
25			1 (2)		1 (3)		1 (3)	
26	3.2 (4.6)	4.5 (6.5)	2 (2)		2 (2)		2 (2)	
27	26.5 (24.2)	38.6 (34.7)	8 (12)		9 (13)		5 (7)	
28	5.7 (4.0)	8.2 (5.7)						
29	5.5 (5.2)	7.9 (7.5)	109 (226)	156 (323)	82 (132)	117 (189)	96 (197)	137 (282)
30	-0.3 (1.3)	-0.4 (1.8)	58 (18)	82 (25)	49 (48)	70 (68)	187 (465)	267 (662)
31	3.8 (2.9)		49 (14)		32 (8)		38 (11)	
Avg	4.24	6.04	268	456	422	723	304	523
n	26	22	25	20	25	20	25	20
SD	5.58	8.56	152	166	253	283	186	212
Min	-1.3	-1.8	1	82	1	70	1	137
Max	26.5	38.6	548	783	749	1070	572	818

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for January, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	4.9 (3.7)		75 (12)	107 (18)	48 (3)	68 (5)	55 (9)	78 (13)
2	0.3 (0.6)		54 (22)	76 (31)	36 (8)	52 (12)	43 (13)	62 (19)
3	6.5 (2.5)	9.1 (3.6)	66 (11)	95 (15)	46 (11)	66 (16)	44 (15)	64 (21)
4	5.2 (4.1)	7.4 (5.8)	71 (8)	102 (12)	60 (7)	87 (10)	49 (8)	70 (12)
5	0.4 (0.5)	0.6 (0.7)	152 (234)	218 (338)	147 (201)	209 (291)	107 (113)	153 (163)
6	1.4 (1.0)	2.1 (1.4)	91 (14)	130 (20)	118 (12)	169 (17)	83 (9)	120 (13)
7	0.5 (0.6)	0.7 (0.9)	96 (19)	138 (27)	129 (25)	185 (36)	91 (58)	131 (84)
8	3.0 (3.2)	4.3 (4.5)	179 (99)	256 (141)	172 (97)	246 (138)	139 (44)	199 (63)
9	11.1 (6.6)	15.8 (9.4)	194 (24)	276 (34)	163 (25)	234 (36)	185 (26)	265 (38)
10	6.0 (3.2)	8.5 (4.5)	158 (40)	230 (61)	197 (40)	282 (57)	176 (37)	252 (53)
11	5.2 (3.4)	7.4 (4.9)	229 (74)		358 (125)	515 (179)	261 (73)	375 (104)
12	7.3 (3.7)	10.4 (5.2)	495 (864)	708 (1240)	600 (998)	859 (1430)	556 (796)	796 (1140)
13	5.4 (1.6)	7.7 (2.2)	153 (15)	219 (22)	108 (13)	155 (18)	156 (18)	224 (26)
14	1.7 (1.1)	2.4 (1.6)	133 (11)	190 (15)	117 (20)	168 (28)	153 (15)	219 (21)
15	5.5 (4.4)	7.1 (6.1)	208 (279)	298 (399)	242 (552)	347 (791)	184 (228)	262 (327)
16	3.0 (2.9)		92 (11)	131 (16)	72 (10)	102 (14)	94 (13)	134 (18)
17	0.9 (1.4)		83 (7)	119 (10)	59 (8)	84 (11)	84 (7)	119 (10)
18								
19								
20								
21								
22								
23	-0.1 (0.6)	-0.1 (0.9)	25 (6)	36 (9)	46 (8)	66 (11)	24 (5)	34 (6)
24	2.3 (1.8)	3.3 (2.5)	32 (7)	46 (10)	71 (11)	101 (15)	28 (7)	41 (9)
25	4.6 (1.0)							
26	1.9 (0.8)	2.7 (1.2)	42 (20)	60 (29)	72 (35)	103 (50)	72 (9)	103 (13)
27	1.1 (2.0)	1.6 (2.9)	28 (5)	40 (7)	35 (6)	50 (9)	81 (10)	116 (15)
28	-0.2 (1.4)	-0.2 (1.9)	42 (78)	61 (112)	49 (50)	71 (72)	90 (33)	129 (47)
29	-0.4 (0.7)	-0.5 (1.0)	28 (4)	41 (6)	65 (6)	93 (9)	241 (51)	349 (75)
30	0.4 (0.8)	0.6 (1.1)	47 (17)	67 (24)	51 (13)	73 (18)	350 (45)	
31	-0.7 (1.0)	-0.9 (1.5)	94 (20)	134 (29)	56 (15)	79 (22)	412 (55)	584 (80)
Avg	2.97	4.28	115	157	125	179	150	203
n	26	21	25	24	25	25	25	24
SD	2.9	4.36	97.9	139	122	175	127	175
Min	-0.7	-0.9	25	36	35	50	24	34
Max	11.1	15.8	495	708	600	859	556	796

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for February, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	-0.1 (1.0)	-0.2 (1.5)	108 (25)	154 (35)	70 (12)	100 (17)	360 (83)	516 (118)
2	0.7 (0.8)	1.1 (1.2)	141 (26)	202 (38)	106 (19)	152 (28)	400 (776)	560 (1090)
3	-0.5 (0.8)	-0.8 (1.1)	181 (38)	259 (55)	181 (255)	259 (365)	48 (6)	68 (8)
4	2.5 (3.2)	3.6 (3.9)	223 (366)	319 (523)	33 (6)	47 (9)	38 (5)	54 (7)
5	0.3 (1.7)		42 (5)	60 (7)	28 (7)	40 (10)	50 (14)	72 (20)
6	-1.4 (1.3)		28 (7)	40 (11)	31 (7)	44 (10)	62 (10)	89 (14)
7	-1.6 (0.3)	-2.3 (0.4)	20 (6)	28 (9)	40 (10)	57 (15)	69 (17)	99 (24)
8	-0.8 (0.3)	-1.1 (0.4)	28 (12)	40 (17)	78 (34)	112 (49)	89 (30)	127 (43)
9	5.9 (7.1)	8.5 (10.1)	83 (144)	119 (206)	170 (46)	244 (67)	134 (33)	191 (48)
10	0.0 (1.0)	0.0 (1.5)	19 (6)	28 (8)	189 (211)	272 (304)	150 (35)	219 (50)
11	-0.8 (1.1)	-1.1 (1.5)	13 (4)	18 (6)	31 (8)	45 (12)	141 (152)	202 (218)
12	-1.2 (1.3)	-1.8 (1.8)	21 (10)	31 (14)	58 (36)	84 (52)	38 (15)	54 (21)
13	-0.3 (2.4)	-0.5 (3.4)	45 (15)	65 (21)	142 (53)	203 (76)	85 (23)	122 (32)
14	7.3 (6.1)	10.4 (8.6)	85 (10)	121 (15)	286 (38)	410 (54)	141 (13)	202 (19)
15	29.9 (9.6)	42.5 (13.6)	144 (23)	206 (32)	452 (62)	647 (89)	203 (29)	291 (41)
16	18.0 (8.8)	26.0 (12.9)	242 (390)	346 (559)	582 (51)	833 (72)	205 (87)	293 (125)
17	28.0 (23.6)		56 (11)	80 (15)	545 (580)	780 (830)	108 (36)	155 (51)
18	0.8 (0.9)	1.2 (1.3)	31 (14)	44 (20)	49 (16)	71 (23)	205 (344)	294 (493)
19	-1.2 (0.5)	-1.8 (0.8)	27 (9)	39 (13)	36 (16)	52 (23)	36 (8)	51 (11)
20	0.6 (1.0)							
21	3.2 (3.8)		73 (14)	104 (20)	119 (20)	169 (28)	83 (11)	119 (16)
22	-1.2 (0.8)	-1.7 (1.1)	83 (29)	119 (41)	133 (33)	192 (47)	105 (26)	151 (38)
23	1.8 (3.6)		165 (186)	236 (266)	216 (25)	308 (35)	181 (23)	259 (33)
24	0.7 (2.4)		69 (7)	99 (10)	294 (645)	421 (924)	230 (32)	329 (46)
25	0.9 (1.5)		53 (7)	75 (10)	60 (13)	86 (18)	246 (235)	352 (336)
26	-1.8 (0.6)	-2.6 (0.8)	54 (9)	77 (12)	49 (9)	71 (13)	55 (13)	79 (19)
27	-1.1 (0.3)	-1.6 (0.4)						
28	11.7 (11.9)	16.6 (17.0)	164 (57)	236 (81)	162 (52)	233 (75)	121 (44)	173 (63)
Avg	3.59	4.73	84.5	121	159	228	138	197
n	28	20	26	26	26	26	26	26
SD	8.25	11.3	65.1	93.1	153	220	93.6	133
Min	-1.8	-2.6	13	18	28	40	36	51
Max	29.9	42.5	242	346	582	833	400	560

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for March, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	22.8 (4.3)	32.4 (6.2)	354 (38)	507 (54)	324 (34)	463 (49)	286 (40)	410 (57)
2	10.6 (8.3)	16.9 (11.1)	421 (47)	602 (68)	382 (36)	546 (52)	403 (58)	577 (84)
3	12.7 (8.3)		461 (76)	659 (109)	600 (997)	858 (1430)	515 (45)	737 (64)
4	1.3 (1.5)		365 (82)	522 (118)	167 (23)	239 (33)	511 (104)	730 (149)
5	-0.5 (1.3)	-1.3 (1.6)	339 (438)	484 (627)	78 (18)	111 (26)	452 (526)	647 (754)
6	-0.4 (0.7)	-0.6 (0.9)	43 (19)	62 (27)	65 (21)	93 (30)	85 (45)	121 (65)
7	-0.3 (0.7)	-0.5 (1.0)	31 (11)	44 (16)	96 (45)	138 (65)	49 (14)	70 (20)
8	-0.3 (0.3)	-0.4 (0.5)						
9	8.5 (16.5)	12.1 (23.5)	77 (47)	110 (67)	224 (127)	320 (182)	133 (73)	191 (105)
10	27.3 (27.3)	38.9 (38.8)	161 (48)	231 (69)	324 (372)	464 (533)	265 (47)	379 (68)
11	-1.0 (2.0)	-1.4 (2.9)	140 (65)	201 (93)	49 (20)	71 (29)	297 (115)	427 (165)
12	24.3 (13.5)	34.5 (19.2)	364 (329)	520 (470)	177 (68)	253 (97)	340 (235)	486 (336)
13	21.0 (6.4)	29.8 (9.1)	107 (25)	153 (36)	371 (39)	532 (56)	170 (46)	243 (65)
14	11.7 (3.9)	16.6 (5.6)	151 (16)	216 (23)	457 (43)	654 (62)	297 (41)	425 (59)
15	18.9 (6.9)	27.0 (9.8)	194 (61)	278 (88)	495 (54)	710 (77)	382 (27)	548 (39)
16	12.3 (6.1)	17.6 (8.8)	225 (32)	323 (47)	555 (53)	797 (75)	554 (86)	796 (123)
17	20.8 (2.2)	29.7 (3.1)	276 (39)	396 (56)	456 (538)	654 (772)	636 (90)	911 (129)
18	5.1 (3.9)	7.2 (5.6)	352 (72)	504 (102)	107 (38)	153 (55)	651 (224)	931 (321)
19	9.6 (13.6)	13.6 (19.5)	359 (473)	514 (678)	119 (59)	170 (84)	514 (487)	735 (698)
20	22.4 (9.2)	31.9 (13.2)	61 (12)	88 (17)	213 (62)	305 (89)	132 (42)	188 (59)
21	10.1 (2.7)	14.3 (3.8)	79 (19)	113 (27)	336 (84)	481 (120)	218 (45)	311 (64)
22	3.5 (2.6)	4.9 (3.7)			386 (129)	552 (185)	279 (72)	398 (103)
23	24.2 (24.9)	34.4 (35.4)	108 (45)	154 (65)	350 (171)	500 (245)	271 (106)	387 (152)
24	56.6 (48.3)	80.5 (68.7)	162 (43)	232 (62)	359 (406)	513 (580)	344 (50)	491 (72)
25	9.4 (5.2)	13.3 (7.4)	204 (48)	291 (69)	104 (17)	149 (25)	447 (40)	640 (57)
26	0.1 (1.9)	0.1 (2.6)	157 (176)	225 (252)	89 (23)	128 (32)	308 (259)	443 (371)
27	-0.6 (1.3)	-0.9 (1.8)	32 (7)	46 (11)	111 (28)	160 (41)	89 (19)	128 (27)
28	0.8 (1.0)	1.2 (1.4)	55 (17)	79 (24)	120 (48)	173 (69)	103 (25)	149 (36)
29	1.3 (1.4)	1.9 (2.1)	87 (50)	125 (72)	196 (108)	282 (154)	141 (71)	202 (101)
30	5.1 (4.2)	7.3 (6.0)	233 (52)	332 (74)	428 (151)	612 (216)	308 (73)	440 (104)
31	3.7 (2.7)	5.3 (3.9)	275 (83)	394 (119)	351 (254)	502 (363)	338 (108)	484 (154)
Avg	11	16.1	203	290	270	386	317	454
n	31	29	29	29	30	30	30	30
SD	12.2	17.8	127	182	158	226	163	233
Min	-1.0	-1.4	31	44	49	71	49	70
Max	56.6	80.5	461	659	600	858	651	931

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for April, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	3.9 (0.8)	5.6 (1.1)	348 (92)	499 (131)	123 (30)	176 (43)	336 (53)	483 (76)
2	3.6 (1.1)	5.1 (1.5)	310 (243)	444 (348)	167 (29)	240 (41)	267 (211)	384 (303)
3	2.2 (0.3)	3.1 (0.5)	54 (25)	77 (35)	134 (44)	192 (63)	55 (22)	78 (32)
4	0.7 (1.1)	1.0 (1.6)	127 (54)	181 (77)	284 (106)	406 (152)	159 (49)	227 (71)
5	1.5 (0.8)	2.2 (1.1)	164 (88)	235 (126)	238 (141)	341 (202)	155 (98)	222 (140)
6	1.2 (1.3)	1.7 (1.8)	249 (139)	357 (198)	210 (113)	301 (161)	167 (83)	240 (119)
7	1.0 (0.6)	1.4 (0.8)	485 (96)	692 (136)	374 (216)	534 (309)	412 (65)	588 (93)
8	1.2 (1.2)	1.8 (1.8)	447 (106)	638 (151)	158 (46)	225 (65)	415 (124)	593 (177)
9	2.0 (0.7)	2.8 (0.9)	319 (326)	456 (466)	149 (61)	212 (87)	250 (215)	357 (308)
10	2.4 (0.7)	3.4 (1.0)	102 (51)	147 (73)	134 (58)	192 (83)	26 (12)	37 (17)
11	2.1 (1.5)	3.0 (2.1)	191 (79)	274 (113)	185 (81)	265 (116)	47 (21)	67 (30)
12	2.8 (1.3)	4.0 (1.9)	269 (65)	385 (93)	336 (127)	481 (182)	107 (27)	153 (38)
13	2.7 (1.6)	3.9 (2.3)	253 (60)	362 (85)	364 (103)	522 (147)	148 (19)	212 (28)
14	15.5 (8.2)	22.3 (11.8)	204 (40)	294 (57)	235 (179)	338 (257)	169 (33)	243 (47)
15	6.1 (5.9)	8.8 (8.5)	361 (72)	517 (102)	157 (44)	225 (64)	241 (39)	345 (56)
16	16.1 (5.9)	22.9 (8.4)	446 (621)	638 (889)	243 (64)	348 (92)	284 (311)	406 (445)
17	5.3 (1.1)	7.5 (1.5)	112 (39)	159 (56)	285 (112)	407 (161)	97 (28)	139 (41)
18	2.3 (0.8)	3.2 (1.1)	129 (85)	184 (121)	273 (157)	391 (225)	142 (67)	203 (96)
19	2.8 (0.8)	3.9 (1.1)	142 (73)	203 (104)	298 (170)	426 (244)	220 (84)	315 (120)
20	3.1 (2.2)	4.5 (3.1)	141 (54)	202 (77)	244 (101)	350 (145)	261 (112)	375 (161)
21	16.0 (12.1)	22.8 (17.3)	196 (76)	280 (109)	222 (205)	318 (294)	442 (166)	634 (238)
22	3.2 (2.9)	4.7 (4.2)	323 (73)	463 (104)	86 (37)	123 (53)	560 (205)	803 (294)
23	2.9 (0.5)	4.2 (0.7)	239 (208)	342 (297)	97 (63)	139 (90)	441 (385)	630 (551)
24	2.6 (0.4)	3.7 (0.5)	99 (68)	142 (97)	107 (92)	153 (131)	95 (60)	136 (86)
25	2.0 (0.3)	2.9 (0.4)	39 (27)	57 (38)	59 (35)	85 (50)	76 (44)	110 (63)
26	0.5 (1.5)	0.7 (2.2)	61 (37)	87 (53)	106 (64)	152 (91)	116 (65)	166 (94)
27	3.5 (1.2)	5.0 (1.8)	100 (65)	144 (94)	176 (114)	253 (164)	187 (112)	269 (161)
28	3.8 (1.8)	5.4 (2.6)	144 (89)	206 (128)	183 (145)	263 (208)	247 (138)	354 (197)
29	1.9 (0.9)	2.8 (1.3)	172 (99)	247 (141)	28 (12)	40 (16)	264 (139)	378 (199)
30	3.6 (1.1)	5.2 (1.5)	213 (203)	305 (292)	34 (13)	49 (18)	275 (203)	394 (291)
Avg	3.95	5.64	215	307	190	272	222	318
n	30	30	30	30	30	30	30	30
SD	4.15	5.93	119	170	91.3	131	131	187
Min	0.5	0.7	39	57	28	40	26	37
Max	16.1	22.9	485	692	374	534	560	803

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for May, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	2.1 (0.4)	3.0 (0.6)	41 (16)	58 (23)	31 (12)	44 (17)	76 (35)	110 (50)
2	1.4 (1.2)	2.0 (1.7)	47 (20)	68 (29)	35 (12)	51 (18)	94 (35)	136 (50)
3	1.7 (1.1)	2.4 (1.6)						
4	2.0 (2.6)	2.8 (3.7)	87 (52)	126 (75)	61 (33)	88 (48)	118 (46)	170 (67)
5	0.9 (1.5)	1.3 (2.2)	150 (55)	215 (79)	117 (138)	168 (199)	186 (95)	268 (137)
6	1.3 (0.4)	1.9 (0.6)	121 (77)	174 (110)	15 (5)	22 (8)	137 (54)	197 (78)
7	3.1 (4.1)	4.5 (5.9)	120 (111)	173 (159)	24 (10)	35 (14)	155 (134)	223 (194)
8	4.6 (4.6)	6.7 (6.6)	66 (65)	95 (94)	27 (12)	38 (17)	35 (17)	50 (24)
9	1.2 (1.0)	1.7 (1.4)	28 (18)	41 (26)	26 (9)	38 (13)	34 (10)	49 (14)
10	1.0 (0.9)	1.5 (1.3)	38 (3)	54 (5)	66 (28)	95 (40)	74 (32)	107 (46)
11	9.3 (4.2)	13.3 (6.0)	22 (13)	32 (19)	135 (38)	194 (54)	176 (38)	252 (55)
12	3.5 (2.2)	5.0 (3.2)	22 (41)	31 (58)	132 (72)	189 (103)	153 (64)	219 (91)
13	5.8 (3.7)	8.3 (5.2)	7 (3)	10 (4)	87 (69)	125 (98)	142 (57)	204 (82)
14	1.0 (0.9)	1.4 (1.2)	5 (2)	7 (3)	43 (87)	62 (125)	113 (120)	162 (172)
15	0.2 (1.1)	0.2 (1.6)	4 (1)	6 (2)	1 (1)	2 (2)	22 (11)	31 (16)
16	1.5 (1.0)	2.1 (1.4)						
17	7.3 (7.9)	10.4 (11.2)			10 (7)	14 (10)		
18	19.5 (11.2)	27.8 (16.0)			13 (4)	19 (6)	137 (21)	196 (30)
19	6.4 (2.1)	9.1 (3.0)			11 (2)	15 (3)	134 (55)	191 (79)
20	3.9 (2.0)	5.6 (2.8)			9 (3)	12 (4)	90 (79)	129 (112)
21	5.0 (4.1)	7.1 (5.9)			8 (4)	11 (6)	21 (9)	30 (13)
22	3.1 (1.8)	4.5 (2.5)			8 (6)	12 (9)	20 (12)	29 (17)
23	2.1 (1.1)	3.0 (1.6)	7 (2)	11 (3)	6 (4)	8 (6)	21 (10)	30 (15)
24	1.1 (1.8)	1.6 (2.6)	9 (9)	13 (13)				
25	0.4 (1.2)	0.6 (1.7)	7 (8)	10 (12)				
26	2.1 (6.5)	2.9 (9.3)	4 (4)	6 (6)				
27	3.1 (5.3)	4.5 (7.7)	6 (4)	9 (5)				
28	0.1 (1.6)	0.2 (2.2)	27 (58)	39 (83)				
29	-0.7 (1.7)	-1.0 (2.4)	7 (11)	9 (16)				
30	1.9 (1.6)	2.7 (2.3)						
31	3.3 (8.3)	4.7 (12.0)	8 (6)	11 (8)	3 (4)	5 (5)	13 (7)	18 (10)
Avg	3.19	4.57	37.9	54.4	39.5	56.6	92.9	133
n	31	31	22	22	22	22	21	21
SD	3.7	5.29	42.7	61.5	41.4	59.4	56.3	80.8
Min	-0.7	-1.0	4	6	1	2	13	18
Max	19.5	27.8	150	215	135	194	186	268

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for June, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-}
1	4.1 (4.4)	5.8 (6.4)	13 (7)	19 (10)	17 (68)	25 (98)	17 (10)	25 (14)
2	-1.2 (0.5)	-1.7 (0.7)	23 (18)	33 (26)	22 (25)	32 (36)	12 (6)	17 (9)
3	-1.0 (0.9)	-1.5 (1.3)	26 (15)	37 (21)	4 (2)	5 (3)	11 (5)	16 (8)
4	0.0 (1.8)	0.0 (2.6)	42 (19)	60 (27)	7 (4)	10 (5)	11 (5)	16 (8)
5	0.4 (2.4)	0.6 (3.4)	56 (19)	81 (27)	9 (5)	13 (7)	11 (8)	16 (12)
6	3.9 (2.2)	5.6 (3.2)	122 (14)	176 (20)	18 (8)	26 (11)	45 (79)	64 (113)
7	1.3 (0.7)	1.9 (1.0)	103 (35)	148 (50)	12 (4)	17 (6)	6 (3)	8 (5)
8	-2.9 (1.5)	-4.2 (2.1)	90 (57)	130 (82)	10 (6)	14 (9)	2 (3)	3 (4)
9	-3.2 (0.8)	-4.6 (1.1)	91 (51)	131 (73)	14 (10)	20 (15)	10 (14)	15 (19)
10	-2.6 (0.9)	-3.8 (1.3)	102 (59)	147 (85)	18 (12)	26 (17)	22 (10)	32 (15)
11	-2.5 (0.6)	-3.6 (0.8)	66 (40)	95 (58)	13 (6)	19 (9)	23 (12)	33 (17)
12	-2.9 (0.4)	-4.2 (0.6)	28 (19)	40 (27)	15 (11)	22 (15)	22 (35)	32 (51)
13	-1.4 (0.5)	-2.0 (0.7)	18 (12)	26 (17)	18 (11)	26 (16)	4 (3)	6 (5)
14	1.2 (1.8)	1.8 (2.6)	32 (14)	46 (20)	37 (16)	54 (22)	11 (6)	16 (9)
15	4.7 (1.2)	6.8 (1.7)	59 (30)	85 (43)	58 (30)	83 (43)	29 (20)	42 (29)
16	10.0 (1.1)	14.4 (1.6)	112 (20)	161 (29)	75 (52)	108 (75)	48 (15)	69 (21)
17	3.8 (1.9)	5.4 (2.8)	79 (31)	114 (45)	32 (28)	46 (41)	39 (6)	56 (8)
18	4.3 (1.0)	6.2 (1.4)	67 (45)	97 (64)	10 (2)	14 (3)	47 (51)	68 (74)
19	3.0 (0.9)	4.3 (1.3)	43 (23)	62 (33)	11 (3)	16 (5)	18 (18)	25 (27)
20	2.9 (0.8)	4.1 (1.1)	12 (3)	18 (4)	14 (3)	20 (5)	10 (3)	15 (4)
21	7.0 (3.8)	10.1 (5.5)	22 (8)	31 (11)	18 (8)	26 (11)	16 (6)	23 (9)
22	10.5 (5.3)	15.1 (7.6)	56 (42)	80 (61)	39 (18)	56 (26)	29 (10)	42 (14)
23	8.1 (1.4)	11.6 (2.0)	21 (7)	30 (11)	35 (25)	51 (35)	31 (13)	44 (19)
24	4.2 (0.8)	6.0 (1.2)	22 (10)	32 (14)	36 (20)	52 (28)	18 (9)	26 (14)
25	4.4 (0.9)	6.4 (1.4)	55 (68)	79 (98)	11 (3)	16 (5)	37 (31)	53 (44)
26	0.1 (0.6)	0.2 (0.9)	9 (5)	13 (8)	14 (9)	20 (13)	11 (6)	16 (9)
27	2.0 (0.8)	2.9 (1.1)			18 (6)	26 (8)		
28	2.7 (2.2)	3.9 (3.2)	18 (10)	25 (15)	31 (15)	44 (22)	20 (12)	29 (18)
29	1.3 (1.6)	1.9 (2.3)	26 (25)	38 (36)	34 (20)	49 (29)	25 (16)	37 (22)
30	3.4 (1.3)	4.9 (1.8)						
Avg	2.19	3.15	50.4	72.5	22.4	32.3	20.9	30.1
n	30	30	28	28	29	29	28	28
SD	3.63	5.22	33.4	48	15.6	22.5	12.7	18.3
Min	-3.2	-4.6	9	13	4	5	2	3
Max	10.5	15.1	122	176	75	108	48	69

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for July, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	-1.4 (0.8)	-2.0 (1.1)	19 (13)	27 (19)	13 (15)	18 (21)	34 (24)	49 (35)
2	0.4 (1.3)	0.6 (1.9)	22 (16)	32 (24)	7 (6)	10 (9)	49 (25)	73 (36)
3	1.2 (1.8)	1.7 (2.6)	30 (50)	43 (72)	20 (12)	29 (18)	14 (8)	20 (11)
4	3.1 (0.3)	4.4 (0.5)	17 (9)	24 (13)	39 (18)	56 (26)	19 (9)	27 (12)
5	3.6 (0.6)	5.1 (0.8)	22 (10)	32 (15)	36 (15)	51 (21)	19 (9)	27 (13)
6	6.5 (3.2)	9.4 (4.6)	49 (37)	70 (53)	47 (11)	67 (16)	41 (8)	59 (11)
7	5.6 (0.9)	8.0 (1.3)	43 (38)	62 (54)	71 (59)	103 (85)	38 (13)	55 (18)
8	5.3 (0.9)	7.6 (1.3)	19 (8)	28 (11)	22 (16)	31 (23)	48 (20)	70 (29)
9	7.3 (3.1)	10.5 (4.4)	60 (51)	87 (73)	19 (6)	27 (8)	114 (185)	165 (267)
10	8.0 (1.6)	11.5 (2.3)	36 (21)	52 (31)	29 (7)	41 (10)	18 (5)	26 (7)
11	4.4 (0.9)	6.3 (1.3)	26 (21)	37 (30)	34 (11)	48 (16)	18 (4)	25 (6)
12	3.5 (0.7)	5.0 (1.0)	13 (14)	19 (21)	28 (12)	41 (17)	18 (7)	26 (9)
13	7.4 (3.4)	10.6 (4.9)	29 (23)	41 (34)	50 (11)	72 (16)	48 (16)	69 (22)
14	7.3 (2.9)	10.5 (4.1)	18 (10)	25 (15)	66 (65)	95 (93)	47 (44)	68 (63)
15	1.6 (2.0)	2.3 (2.9)	19 (10)	27 (14)	24 (21)	35 (30)	18 (8)	26 (12)
16	1.8 (1.0)	2.6 (1.4)	42 (32)	61 (46)	8 (4)	12 (5)	34 (21)	50 (30)
17	1.0 (1.6)	1.5 (2.3)	13 (15)	19 (22)	14 (4)	20 (6)	11 (6)	16 (9)
18	1.6 (0.9)	2.3 (1.3)	11 (4)	16 (6)	22 (6)	31 (9)	20 (6)	29 (8)
19	6.7 (3.9)	9.7 (5.6)	22 (10)	31 (14)	35 (14)	50 (20)	32 (10)	46 (14)
20	-0.6 (0.7)	-0.8 (0.9)	32 (12)	46 (18)	38 (9)	54 (13)	37 (11)	54 (15)
21	3.1 (2.4)	4.4 (3.5)	49 (25)	71 (36)	54 (38)	78 (54)	47 (20)	68 (29)
22	1.6 (0.8)	2.3 (1.1)	62 (35)	90 (50)	49 (39)	71 (56)	63 (30)	90 (43)
23	4.6 (2.0)	6.6 (2.8)	81 (175)	117 (254)	8 (4)	12 (6)	59 (55)	85 (80)
24	3.0 (3.2)	4.3 (4.6)	34 (13)	49 (19)	16 (7)	23 (10)	49 (60)	70 (87)
25	1.9 (1.5)	2.7 (2.2)	34 (17)	49 (24)	25 (8)	37 (11)	11 (5)	15 (7)
26	1.0 (0.6)	1.5 (0.9)	40 (18)	58 (27)	29 (5)	41 (7)	19 (9)	27 (14)
27	2.3 (1.1)	3.3 (1.6)	78 (39)	112 (56)	51 (21)	74 (31)	36 (38)	52 (55)
28	2.9 (1.2)	4.1 (1.7)	93 (40)	135 (58)	46 (34)	67 (50)	23 (19)	33 (28)
29	2.4 (1.1)	3.5 (1.6)	94 (38)	135 (55)	39 (32)	57 (46)	15 (8)	22 (12)
30	1.9 (1.0)	2.8 (1.4)	90 (55)	130 (79)	14 (4)	20 (6)	32 (19)	47 (28)
31	2.9 (1.4)	4.2 (2.0)	27 (17)	39 (25)	19 (5)	28 (6)	16 (9)	22 (14)
Avg	3.28	4.72	39.4	56.9	31.3	45.1	33.7	48.7
n	31	31	31	31	31	31	31	31
SD	2.43	3.49	24.6	35.5	16.7	24	20.8	30
Min	-1.4	-2.0	11	16	7	10	11	15
Max	8.0	11.5	94	135	71	103	114	165

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for August, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	1.1 (1.6)	1.6 (2.4)	15 (7)	21 (10)	28 (8)	41 (12)	20 (9)	28 (13)
2	1.7 (1.5)	2.5 (2.2)	25 (16)	36 (24)	44 (7)	64 (10)	33 (12)	47 (17)
3	1.3 (0.6)	1.9 (0.9)	17 (11)	25 (15)	44 (12)	64 (17)	37 (16)	54 (24)
4	2.0 (0.6)	2.8 (0.9)	19 (15)	28 (22)	63 (64)	91 (92)	36 (15)	52 (21)
5	1.7 (0.6)	2.5 (0.9)	15 (6)	22 (9)	21 (16)	30 (24)	60 (26)	87 (38)
6	1.3 (1.1)	1.9 (1.6)	34 (43)	50 (62)	10 (6)	15 (9)	89 (153)	129 (222)
7	4.2 (0.7)	6.0 (1.1)	31 (26)	45 (37)	18 (6)	26 (8)	15 (3)	21 (5)
8	3.4 (0.5)	4.9 (0.7)						
9	1.8 (1.0)	2.5 (1.5)	22 (22)	32 (31)	36 (9)	51 (13)	24 (11)	35 (16)
10	1.6 (0.9)	2.2 (1.3)	18 (23)	26 (33)	38 (15)	54 (21)	30 (17)	43 (24)
11	5.1 (5.5)	7.3 (7.9)	22 (17)	31 (24)	62 (58)	90 (83)	63 (28)	91 (40)
12	5.4 (2.3)	7.7 (3.4)	21 (12)	30 (17)	19 (17)	27 (25)	87 (29)	125 (42)
13	2.1 (0.4)	3.0 (0.6)			12 (5)	17 (7)	72 (39)	104 (57)
14	2.1 (0.4)	3.0 (0.6)	24 (14)	34 (21)	18 (13)	26 (18)	33 (13)	47 (18)
15	2.3 (1.0)	3.3 (1.4)	26 (20)	38 (29)	19 (4)	28 (6)	46 (20)	67 (30)
16	2.7 (0.9)	4.0 (1.3)	24 (16)	34 (24)	24 (4)	35 (6)	58 (28)	84 (41)
17	1.3 (0.6)	1.9 (0.9)	19 (21)	28 (30)	28 (6)	40 (8)	60 (37)	87 (54)
18	2.0 (1.2)	2.9 (1.7)	12 (6)	17 (9)	49 (27)	71 (39)	71 (38)	102 (54)
19	0.0 (1.4)	0.0 (2.0)	15 (11)	22 (16)	11 (7)	16 (10)	85 (45)	123 (64)
20	-4.5 (0.7)	-6.5 (1.0)	23 (23)	33 (34)	7 (4)	10 (5)	94 (150)	136 (218)
21	-3.1 (0.8)	-4.5 (1.2)	3 (3)	4 (5)			55 (48)	79 (69)
22	7.0 (13.0)	10.1 (18.7)	14 (10)	20 (14)			24 (25)	35 (36)
23	14.7 (12.8)	21.2 (18.5)	19 (8)	28 (12)			23 (26)	34 (38)
24	-2.5 (1.2)	-3.6 (1.8)	24 (11)	35 (16)	54 (13)	78 (19)	26 (33)	38 (48)
25	-1.5 (0.6)	-2.2 (0.8)	30 (16)	43 (22)	76 (126)	110 (181)	22 (35)	31 (50)
26	-3.2 (2.0)	-4.7 (2.9)	30 (17)	43 (24)	16 (30)	23 (43)	13 (8)	19 (12)
27	-4.1 (0.5)	-5.9 (0.7)	105 (197)	154 (288)			66 (45)	94 (64)
28	-0.2 (3.1)	-0.3 (4.4)	11 (6)	16 (9)	32 (8)	47 (12)	34 (32)	50 (46)
29	-2.1 (1.2)	-3.0 (1.8)	14 (6)	20 (9)	39 (9)	57 (13)	24 (21)	34 (30)
30	-1.4 (2.7)	-2.0 (4.0)	21 (12)	31 (17)	50 (10)	72 (14)	21 (18)	31 (26)
31	10.6 (3.3)							
Avg	1.7	2.02	23.3	33.7	32.7	47.2	45.6	65.8
n	31	30	28	28	25	25	29	29
SD	3.98	5.32	17.1	25.1	18.4	26.5	24.3	35.1
Min	-4.5	-6.5	3	4	7	10	13	19
Max	14.7	21.2	105	154	76	110	94	136

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for September, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	13.8 (6.5)	19.8 (9.3)	80 (23)	115 (33)	124 (152)	179 (218)	39 (11)	56 (16)
2	11.2 (2.8)	16.1 (4.0)	97 (39)	140 (55)	29 (37)	41 (53)	71 (16)	103 (23)
3	4.1 (3.3)	5.9 (4.7)	131 (267)	189 (384)	13 (5)	19 (8)	94 (111)	135 (160)
4	3.6 (2.9)	5.2 (4.1)	13 (7)	19 (11)	26 (14)	38 (21)	37 (40)	53 (58)
5	4.8 (1.7)	6.8 (2.4)	25 (13)	36 (18)	47 (25)	67 (36)	41 (32)	59 (46)
6	5.2 (2.2)	7.5 (3.1)	37 (15)	54 (22)	52 (16)	75 (23)	46 (38)	66 (55)
7	13.8 (1.8)	19.8 (2.5)	55 (12)	80 (17)	53 (11)	76 (15)	52 (41)	75 (60)
8	8.2 (1.8)	11.7 (2.6)	65 (18)	93 (26)	58 (16)	84 (22)	44 (37)	64 (54)
9	14.3 (3.3)	20.5 (4.7)	95 (36)	137 (52)	83 (64)	119 (92)	49 (53)	70 (77)
10	22.7 (13.8)	32.6 (19.8)	211 (416)	303 (598)	27 (44)	39 (63)	65 (48)	94 (69)
11	2.1 (3.0)	3.0 (4.2)	19 (10)	27 (14)	64 (59)	92 (85)	36 (14)	52 (20)
12	0.5 (4.1)	0.7 (5.8)	28 (13)	41 (19)	28 (16)	40 (23)	51 (19)	74 (28)
13	9.1 (2.6)	13.1 (3.7)	51 (23)	73 (34)	35 (22)	50 (31)	78 (26)	113 (37)
14	7.6 (3.9)	10.9 (5.5)	62 (34)	89 (48)	37 (44)	54 (64)	111 (48)	159 (69)
15	0.2 (0.8)	0.3 (1.1)						
16	5.2 (4.3)	7.5 (6.1)	75 (30)	107 (43)	28 (27)	40 (38)	155 (48)	224 (68)
17	33.7 (16.2)	48.4 (23.3)	78 (35)	112 (50)	15 (7)	22 (10)	145 (71)	209 (102)
18	7.0 (3.0)	10.0 (4.2)	39 (47)	56 (67)	19 (7)	28 (10)	44 (44)	63 (64)
19	5.8 (4.3)	8.3 (6.2)	21 (9)	30 (13)	34 (11)	48 (15)	40 (17)	58 (25)
20	10.0 (4.5)	14.4 (6.6)	39 (15)	57 (21)	65 (16)	94 (22)	87 (29)	127 (41)
21	8.9 (3.9)	12.8 (5.6)	57 (53)	81 (76)	72 (36)	103 (52)	131 (52)	189 (75)
22	7.0 (4.0)	10.0 (5.8)	38 (36)	54 (52)	58 (41)	83 (60)	140 (42)	202 (61)
23	4.7 (6.8)	6.8 (9.8)	17 (9)	25 (13)	21 (22)	31 (31)	127 (57)	184 (82)
24	0.7 (1.5)	1.0 (2.2)	45 (47)	64 (67)	11 (5)	15 (7)	141 (229)	204 (331)
25	13.2 (9.9)	19.0 (14.3)	67 (61)	96 (88)	29 (18)	42 (26)	36 (26)	52 (37)
26	26.0 (24.3)	37.3 (34.9)	55 (53)	79 (76)	63 (17)	90 (24)	89 (22)	129 (31)
27	5.6 (12.3)	8.1 (17.7)	29 (30)	42 (43)	55 (27)	79 (39)	81 (30)	117 (42)
28	-0.7 (1.0)	-1.0 (1.4)	35 (48)	51 (68)	86 (49)	124 (71)	84 (44)	121 (63)
29	6.9 (7.0)	9.9 (10.0)	48 (47)	68 (67)	193 (120)	276 (172)	186 (61)	266 (88)
30	7.0 (3.2)	10.0 (4.7)	62 (67)	85 (98)	248 (133)	370 (187)	220 (70)	323 (100)
Avg	8.73	12.5	57.6	82.8	57.6	83.4	86.9	125
n	30	30	29	29	29	29	29	29
SD	7.53	10.8	39.3	56.5	51.3	75.5	49.1	71.2
Min	-0.7	-1.0	13	19	11	15	36	52
Max	33.7	48.4	211	303	248	370	220	323

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for October, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	3.6 (4.1)	5.2 (5.9)	40 (46)	57 (66)	222 (119)	318 (171)	251 (274)	360 (392)
2	0.1 (1.1)	0.1 (1.6)	78 (94)	112 (134)	177 (126)	253 (181)	20 (17)	29 (24)
3	-1.2 (0.8)	-1.7 (1.2)	12 (6)	17 (9)	116 (50)	166 (71)	27 (13)	38 (18)
4	3.7 (2.4)	5.3 (3.4)	40 (12)	57 (17)	223 (108)	319 (156)	71 (20)	102 (29)
5	3.5 (3.0)	5.1 (4.3)	71 (70)	103 (101)	236 (38)	339 (54)	99 (15)	142 (22)
6	7.7 (4.4)	11.0 (6.4)	29 (10)	41 (15)	186 (227)	268 (327)	99 (14)	143 (20)
7	0.3 (1.2)	0.5 (1.7)			30 (21)	43 (30)	123 (64)	176 (92)
8	4.7 (3.1)	6.8 (4.4)			41 (19)	58 (28)	299 (690)	428 (989)
9	0.0 (0.7)	0.0 (1.0)			40 (26)	58 (37)	53 (67)	76 (97)
10	4.0 (4.2)	5.7 (6.0)			49 (19)	71 (27)	21 (16)	30 (23)
11	11.9 (2.7)	17.1 (3.9)						
12	4.2 (2.8)	6.0 (4.0)	25 (52)	36 (74)	159 (33)	228 (47)	81 (25)	116 (36)
13	0.1 (1.7)	0.2 (2.5)	2 (3)	3 (4)	129 (244)	186 (351)	49 (28)	70 (41)
14	11.3 (4.2)	16.1 (6.0)						
15	1.4 (4.0)	2.0 (5.7)	53 (144)	76 (206)				
16	6.2 (3.0)	8.9 (4.2)	12 (17)	17 (24)				
17	2.2 (2.3)	3.2 (3.2)	1 (3)	1 (4)				
18	-0.3 (1.8)	-0.4 (2.6)	-1 (2)	-1 (3)				
19	0.6 (3.2)	0.9 (4.6)	3 (6)	4 (8)				
20	-1.9 (1.0)	-2.7 (1.4)	3 (4)	4 (6)				
21	3.8 (2.4)	5.4 (3.5)	8 (6)	12 (9)				
22	-1.1 (1.3)	-1.6 (1.8)	10 (7)	15 (10)	31 (11)	44 (15)		
23	-0.1 (3.8)	-0.2 (5.4)	13 (6)	19 (9)	41 (15)	59 (21)	-1 (2)	-1 (2)
24	-2.5 (1.4)	-3.6 (1.9)	19 (7)	27 (9)	54 (20)	78 (29)	-1 (1)	-2 (2)
25	3.1 (2.5)	4.5 (3.6)	110 (35)	158 (51)	175 (50)	251 (72)	5 (3)	7 (4)
26	4.9 (4.2)	7.1 (6.0)	133 (21)	191 (30)	200 (35)	287 (50)	8 (3)	12 (4)
27	1.5 (2.5)	2.1 (3.6)						
28	4.3 (2.7)	6.1 (3.8)						
29								
30								
31								
Avg	2.71	3.88	33	47.4	124	178	75.1	108
n	28	28	20	20	17	17	16	16
SD	3.5	5.01	37.2	53.4	75.5	108	84.9	122
Min	-2.5	-3.6	-1	-1	30	43	-1	-2
Max	11.9	17.1	133	191	236	339	299	428

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for November, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1								
2								
3								
4	4.4 (2.2)	6.3 (3.1)	85 (31)	122 (44)	74 (103)	106 (147)	88 (19)	126 (27)
5	3.1 (1.2)	4.4 (1.7)	117 (38)	168 (55)	35 (11)	51 (15)	126 (97)	181 (138)
6	6.8 (2.8)	9.6 (4.0)	122 (70)	175 (101)	75 (21)	107 (30)	89 (72)	128 (104)
7	5.4 (2.1)	7.6 (3.0)	59 (18)	84 (26)	106 (21)	152 (30)	34 (7)	48 (10)
8	4.3 (2.9)	6.2 (4.2)	62 (26)	88 (38)	130 (40)	186 (57)	34 (10)	48 (14)
9	2.8 (1.9)	4.0 (2.6)	105 (158)	151 (227)	148 (50)	212 (72)	46 (10)	66 (14)
10	6.0 (1.6)	8.7 (2.2)	19 (4)	28 (5)	135 (131)	194 (188)	61 (8)	88 (12)
11	12.1 (4.2)	17.3 (6.0)	33 (8)	47 (11)	66 (11)	94 (16)	124 (33)	179 (48)
12	5.3 (2.0)	7.5 (2.9)	52 (13)	74 (19)	73 (16)	104 (23)	226 (43)	324 (61)
13	3.3 (1.1)	4.8 (1.5)	63 (8)	90 (12)	82 (14)	118 (20)	256 (13)	368 (19)
14	4.5 (1.5)	6.5 (2.2)	75 (16)	107 (23)	101 (18)	145 (26)	277 (56)	399 (80)
15	5.0 (1.8)	7.2 (2.5)	89 (24)	127 (34)	114 (33)	164 (47)	322 (90)	463 (130)
16	5.7 (2.5)	8.1 (3.5)	88 (71)	127 (102)	143 (57)	206 (81)	350 (137)	503 (196)
17	7.6 (1.0)	10.9 (1.5)	42 (29)	60 (41)	121 (84)	173 (120)	353 (96)	506 (138)
18	9.6 (2.9)	13.7 (4.1)	27 (6)	39 (8)	55 (38)	79 (54)	250 (53)	360 (76)
19	5.9 (2.8)	8.5 (4.0)	42 (27)	61 (39)	40 (13)	58 (19)	168 (147)	242 (212)
20	13.7 (8.1)	19.5 (11.5)	50 (12)	72 (17)	102 (34)	146 (49)	68 (16)	98 (22)
21	9.6 (2.0)	13.7 (2.8)	86 (17)	123 (25)	198 (36)	283 (51)	111 (24)	159 (34)
22	20.7 (15.2)	29.6 (21.7)	125 (132)	180 (189)	218 (43)	313 (62)	153 (22)	220 (31)
23	17.5 (11.7)	25.1 (16.7)	43 (19)	62 (27)	137 (102)	196 (147)	188 (43)	269 (61)
24	4.9 (0.7)	7.0 (1.0)	56 (14)	80 (20)	63 (60)	91 (86)	156 (102)	223 (147)
25	2.9 (1.6)	4.1 (2.2)	108 (26)	156 (37)	42 (70)	60 (100)	62 (22)	88 (32)
26	1.8 (1.3)	2.5 (1.9)	179 (123)	256 (177)	26 (8)	37 (11)	101 (113)	145 (163)
27	6.0 (5.1)	8.5 (7.3)	105 (97)	151 (139)	63 (19)	90 (27)	51 (13)	74 (19)
28	4.4 (7.1)	6.2 (10.1)	44 (8)	63 (11)	126 (27)	181 (39)	82 (20)	117 (29)
29	-1.1 (0.6)	-1.6 (0.9)	54 (18)	78 (25)	136 (42)	194 (60)	90 (26)	128 (38)
30	-0.1 (0.8)	-0.1 (1.1)	107 (31)	154 (44)	175 (38)	250 (55)	127 (33)	
Avg	6.37	9.1	75.5	108	103	148	148	214
n	27	27	27	27	27	27	27	26
SD	4.81	6.87	36.4	52.1	48.7	69.7	95.7	140
Min	-1.1	-1.6	19	28	26	37	34	48
Max	20.7	29.6	179	256	218	313	353	506

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for December, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1	4.2 (4.3)	6.0 (6.1)	264 (46)	378 (66)	386 (568)	552 (813)	258 (44)	
2	7.8 (8.4)	11.1 (12.0)	209 (65)	301 (93)	93 (40)	133 (58)	212 (68)	
3	2.4 (3.1)	3.4 (4.5)	296 (118)	424 (170)	79 (18)	113 (26)	150 (95)	215 (137)
4	7.5 (6.4)	10.8 (9.1)	458 (109)	657 (157)	133 (19)	191 (27)	67 (26)	97 (37)
5	7.2 (7.7)	10.3 (10.9)	476 (119)	682 (170)	217 (57)	312 (81)	105 (35)	151 (51)
6	3.9 (0.6)	5.5 (0.8)	647 (95)	927 (136)	365 (57)	523 (82)	217 (24)	311 (35)
7	2.2 (2.2)	3.2 (3.1)	612 (121)	878 (173)	404 (72)	578 (102)	278 (25)	398 (35)
8	8.1 (4.9)	11.6 (7.0)	615 (79)	881 (113)	596 (626)	853 (896)	182 (154)	261 (221)
9	3.0 (4.8)	4.2 (6.9)	275 (90)	396 (128)	54 (54)	78 (78)	21 (8)	31 (12)
10	0.0 (1.3)	0.0 (1.8)	628 (656)	899 (940)	48 (29)	69 (42)	114 (77)	163 (109)
11	1.5 (1.7)	2.6 (2.2)	159 (115)	228 (164)	147 (35)	210 (51)	70 (45)	100 (65)
12	5.2 (2.0)	8.3 (2.2)						
13	2.0 (0.9)	2.8 (1.3)	25 (10)	36 (14)	223 (50)	321 (71)	51 (11)	73 (16)
14	1.1 (1.2)	1.6 (1.7)	39 (16)	57 (22)	342 (40)	491 (58)	115 (20)	165 (28)
15	0.9 (1.1)	1.3 (1.6)	42 (7)	60 (10)	198 (180)	285 (259)	115 (30)	165 (42)
16	11.5 (2.8)	16.3 (3.9)	109 (26)	157 (37)	41 (19)	58 (27)	293 (79)	419 (113)
17	11.4 (2.5)		196 (71)	281 (102)	39 (9)	55 (12)	352 (329)	504 (471)
18	13.3 (2.1)	19.0 (3.0)	123 (67)	176 (96)	65 (13)	94 (18)	69 (38)	98 (54)
19	0.7 (2.9)	1.1 (4.2)	22 (8)	32 (12)	104 (23)	150 (33)	66 (27)	94 (39)
20	1.6 (1.0)	2.5 (1.2)	21 (6)	30 (9)	151 (35)	216 (49)	127 (27)	181 (38)
21	0.5 (2.8)		33 (16)	47 (24)	254 (53)	364 (76)	205 (36)	294 (52)
22	5.1 (3.0)		31 (15)	44 (21)	351 (275)	502 (394)	296 (45)	424 (64)
23	4.2 (2.4)		28 (7)	39 (11)	89 (67)	128 (95)	367 (60)	526 (86)
24	12.6 (1.9)	17.9 (2.6)			54 (23)	77 (33)		
25	6.1 (2.5)	8.7 (3.5)	67 (8)	96 (12)	26 (19)	38 (27)	320 (59)	458 (84)
26	5.7 (2.4)	8.1 (3.5)	153 (42)	220 (60)	30 (13)	43 (18)	408 (47)	585 (67)
27	3.6 (0.7)	5.2 (1.0)	274 (44)	393 (63)	76 (21)	109 (30)	404 (46)	579 (66)
28	4.5 (0.7)	6.4 (1.0)	420 (86)	601 (123)	152 (27)	217 (39)	437 (66)	626 (95)
29							289 (204)	414 (292)
30							123 (69)	176 (99)
31							107 (141)	154 (202)
Avg	4.92	6.99	239	343	175	250	201	284
n	28	24	26	26	27	27	29	27
SD	3.73	5.25	212	304	144	206	120	178
Min	0.0	0.0	21	30	26	38	21	31
Max	13.3	19.0	647	927	596	853	437	626

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Table F7. Daily mean (SD) of H2S concentrations at Site NC3B for January, 2010.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppb	mg·dsm^{-}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}	ppb	mg·dsm^{-3}
1							43 (23)	62 (33)
2							30 (9)	43 (13)
3								
4			60 (11)	86 (16)				
5								
6					29 (19)	41 (27)		
7					30 (9)	43 (12)		
8					72 (25)	103 (36)		
9	4.7 (0.6)		119 (10)	171 (14)	143 (23)	204 (32)	43 (10)	61 (14)
10	5.0 (2.4)		123 (14)	176 (20)	201 (21)	286 (29)	87 (26)	124 (38)
11	4.6 (0.8)		162 (26)	232 (37)	249 (21)	356 (30)	133 (45)	191 (65)
12	6.8 (2.2)	9.7 (3.1)	229 (33)	328 (47)	319 (281)	456 (401)	99 (33)	142 (47)
13	5.0 (0.9)		192 (116)	274 (166)	119 (36)	169 (52)	137 (39)	196 (55)
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg	5.25		148	211	145	207	81.8	117
n	5	1	6	6	8	8	7	7
SD	0.8		54.4	77.9	98.2	140	40.8	58.4
Min	4.6		60	86	29	41	30	43
Max	6.8		229	328	319	456	137	196

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Table F8. Hydrogen sulfide emissions.

Table F8. Daily mean (SD) of H2S emissions at Site NC3B for March, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11	95 (121)	110 (141)	2.14 (2.74)	152 (193)					26 (41)	33 (52)	0.73 (1.16)	42 (66)
12												
13												
14												
15	121 (91)	141 (106)	2.57 (1.93)	193 (145)								
16												
17	69 (143)	81 (167)	1.43 (2.98)	110 (229)	101 (133)	127 (167)	2.18 (2.88)	161 (213)	94 (189)	119 (241)	2.33 (4.70)	150 (303)
18	114 (129)	133 (151)	2.33 (2.66)	182 (207)	118 (99)	148 (124)	2.50 (2.10)	188 (158)				
19	198 (70)	231 (81)	3.99 (1.41)	316 (112)	156 (40)	196 (50)	3.28 (0.84)	250 (63)				
20	155 (149)	181 (174)	3.08 (2.95)	247 (238)								
21	145 (159)	170 (185)	2.85 (3.11)	233 (254)					198 (209)	253 (267)	4.62 (4.88)	317 (334)
22	147 (116)	172 (135)	2.84 (2.24)	235 (185)	147 (65)	185 (81)	2.97 (1.31)	236 (103)	187 (154)	240 (197)	4.32 (3.55)	300 (246)
23	88 (130)	102 (151)	1.67 (2.47)	140 (207)	114 (109)	144 (138)	2.26 (2.17)	183 (175)	118 (179)	151 (230)	2.68 (4.07)	189 (286)
24	80 (134)	94 (157)	1.50 (2.53)	128 (215)								
25												
26	100 (100)	117 (117)	1.82 (1.83)	160 (161)					135 (128)	174 (165)	2.96 (2.80)	216 (205)
27	114 (86)	134 (101)	2.05 (1.55)	183 (138)	137 (42)	173 (52)	2.56 (0.78)	219 (66)	154 (99)	198 (127)	3.31 (2.13)	246 (158)
28	151 (55)	177 (65)	2.67 (0.98)	242 (89)	148 (30)	187 (37)	2.71 (0.54)	236 (47)	156 (56)	201 (72)	3.31 (1.19)	249 (89)
29	102 (116)	119 (135)	1.78 (2.02)	163 (185)	141 (116)	178 (146)	2.54 (2.08)	225 (185)	92 (113)	119 (146)	1.94 (2.37)	148 (181)
30	50 (104)	59 (122)	0.86 (1.79)	80 (167)	119 (133)	150 (169)	2.11 (2.37)	190 (213)	59 (119)	76 (153)	1.22 (2.45)	94 (190)
31	175 (155)	205 (181)	2.95 (2.62)	280 (248)	202 (104)	256 (131)	3.54 (1.81)	324 (166)	202 (244)	260 (315)	4.12 (4.98)	323 (390)
Avg	119	139	2.28	190	138	174	2.66	221	129	166	2.87	207
n	16	16	16	16	10	10	10	10	11	11	11	11
SD	39	45	0.76	62	27	35	0.45	44	55	71	1.19	88
Min	50	59	0.86	80	101	127	2.11	161	26	33	0.73	42
Max	198	231	3.99	316	202	256	3.54	324	202	260	4.62	323

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for April, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	169 (38)	198 (44)	2.81 (0.63)	271 (60)	157 (21)	199 (26)	2.70 (0.35)	251 (33)	212 (66)	274 (86)	4.27 (1.34)	340 (106)
2	175 (71)	204 (83)	2.85 (1.15)	279 (113)	162 (84)	205 (107)	2.74 (1.41)	259 (135)	227 (115)	292 (149)	4.49 (2.28)	362 (184)
3	171 (137)	200 (161)	2.75 (2.20)	274 (220)	145 (134)	184 (170)	2.40 (2.23)	232 (215)	190 (174)	245 (225)	3.71 (3.40)	304 (279)
4	186 (73)	218 (86)	2.94 (1.16)	298 (117)	152 (40)	193 (50)	2.48 (0.65)	244 (63)	252 (114)	325 (147)	4.84 (2.18)	404 (182)
5	225 (43)	263 (50)	3.48 (0.66)	360 (68)					244 (81)	315 (105)	4.62 (1.54)	391 (130)
6	225 (142)	264 (167)	3.43 (2.16)	361 (228)	215 (83)	273 (105)	3.37 (1.28)	343 (132)	181 (139)	233 (180)	3.37 (2.59)	289 (223)
7	197 (211)	231 (247)	2.95 (3.15)	315 (337)	242 (156)	308 (198)	3.74 (2.40)	388 (249)	181 (191)	234 (246)	3.33 (3.50)	290 (305)
8	201 (172)	235 (202)	2.95 (2.55)	322 (276)	219 (127)	278 (162)	3.31 (1.93)	350 (203)	224 (150)	290 (194)	4.06 (2.72)	359 (241)
9	226 (120)	265 (141)	3.26 (1.74)	362 (193)	216 (108)	275 (137)	3.21 (1.60)	346 (172)	247 (125)	319 (162)	4.39 (2.23)	395 (201)
10	134 (41)	157 (48)	1.90 (0.58)	214 (65)	254 (99)	324 (126)	3.70 (1.46)	407 (159)	228 (120)	294 (155)	3.99 (2.11)	364 (192)
11	125 (27)	147 (31)	1.74 (0.37)	200 (42)					171 (73)	221 (94)	2.94 (1.26)	273 (116)
12	194 (53)	228 (62)	2.65 (0.71)	311 (84)					238 (239)	307 (309)	4.02 (4.05)	380 (382)
13	221 (73)	259 (86)	2.95 (0.98)	353 (117)	142 (39)	181 (50)	1.95 (0.53)	228 (62)				
14	186 (158)	218 (186)	2.43 (2.08)	297 (253)	157 (92)	200 (117)	2.11 (1.23)	252 (147)	106 (100)	137 (129)	1.74 (1.63)	170 (160)
15	194 (166)	227 (194)	2.49 (2.13)	310 (265)	157 (85)	199 (108)	2.06 (1.12)	250 (136)	116 (90)	150 (116)	1.85 (1.44)	185 (144)
16	208 (182)	244 (213)	2.62 (2.30)	332 (291)	147 (105)	187 (134)	1.89 (1.35)	235 (168)	114 (98)	148 (126)	1.80 (1.54)	183 (156)
17	215 (158)	253 (185)	2.67 (1.96)	345 (253)	136 (94)	173 (120)	1.72 (1.20)	218 (151)	147 (109)	191 (141)	2.28 (1.69)	236 (174)
18	245 (162)	287 (190)	2.97 (1.97)	391 (259)	160 (56)	204 (71)	1.98 (0.70)	256 (90)	192 (107)	248 (139)	2.91 (1.63)	306 (171)
19	346 (166)	407 (195)	4.13 (1.99)	554 (265)	171 (43)	218 (55)	2.08 (0.53)	274 (69)	234 (87)	303 (113)	3.49 (1.30)	375 (139)
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
Avg	202	237	2.84	324	177	225	2.59	283	195	251	3.45	312
n	19	19	19	19	16	16	16	16	18	18	18	18
SD	45	53	0.52	72	37	47	0.66	60	47	60	0.98	74
Min	125	147	1.74	200	136	173	1.72	218	106	137	1.74	170
Max	346	407	4.13	554	254	324	3.74	407	252	325	4.84	404

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for May, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1												
2												
3												
4	208 (94)	245 (112)	1.90 (0.87)	332 (151)	192 (37)	246 (47)	1.76 (0.34)	307 (59)	147 (30)	191 (39)	1.66 (0.34)	236 (48)
5	305 (171)	361 (202)	2.74 (1.54)	488 (274)	243 (88)	311 (113)	2.19 (0.80)	388 (141)	192 (167)	249 (217)	2.13 (1.86)	307 (267)
6	143 (26)	169 (31)	1.26 (0.23)	229 (42)	143 (27)	184 (35)	1.28 (0.24)	229 (43)	96 (19)	124 (25)	1.04 (0.21)	153 (30)
7	123 (30)	146 (36)	1.07 (0.26)	197 (49)	135 (26)	173 (33)	1.18 (0.23)	216 (41)	100 (21)	129 (27)	1.06 (0.22)	159 (34)
8	156 (46)	184 (55)	1.33 (0.40)	249 (74)	141 (28)	181 (36)	1.22 (0.24)	226 (45)	126 (20)	164 (26)	1.33 (0.21)	202 (32)
9	150 (31)	178 (36)	1.27 (0.26)	240 (49)	140 (23)	180 (29)	1.19 (0.19)	224 (36)	179 (30)	232 (38)	1.85 (0.30)	286 (47)
10	167 (47)	198 (56)	1.39 (0.39)	268 (75)	179 (52)	229 (67)	1.49 (0.44)	286 (83)	201 (43)	262 (56)	2.04 (0.44)	322 (69)
11	205 (70)	242 (83)	1.68 (0.57)	327 (111)	214 (42)	274 (54)	1.76 (0.35)	343 (67)	214 (65)	278 (85)	2.14 (0.65)	343 (104)
12	259 (201)	307 (238)	2.09 (1.63)	414 (322)	255 (92)	327 (118)	2.07 (0.75)	409 (147)	241 (100)	313 (129)	2.37 (0.98)	386 (159)
13	114 (44)	135 (52)	0.91 (0.35)	182 (70)	156 (47)	200 (60)	1.25 (0.37)	250 (74)	147 (52)	191 (67)	1.42 (0.50)	235 (83)
14	101 (39)	120 (46)	0.80 (0.30)	162 (62)	127 (47)	163 (61)	1.00 (0.38)	204 (76)	127 (50)	165 (65)	1.20 (0.47)	203 (80)
15	177 (116)	210 (137)	1.37 (0.90)	283 (185)	156 (87)	200 (112)	1.21 (0.68)	249 (139)	196 (55)	254 (72)	1.83 (0.52)	313 (88)
16	124 (28)	146 (33)	0.95 (0.21)	198 (44)	140 (23)	180 (30)	1.08 (0.18)	225 (37)	160 (36)	207 (47)	1.47 (0.33)	256 (58)
17	184 (38)	218 (45)	1.39 (0.29)	294 (61)	154 (29)	197 (37)	1.17 (0.22)	246 (46)	224 (58)	291 (76)	2.03 (0.53)	358 (94)
18	199 (65)	236 (77)	1.49 (0.49)	319 (104)	157 (30)	201 (38)	1.18 (0.23)	251 (48)	237 (59)	308 (76)	2.12 (0.53)	380 (94)
19	193 (96)	229 (114)	1.43 (0.71)	309 (154)	133 (91)	171 (116)	0.98 (0.67)	213 (145)	231 (178)	300 (231)	2.04 (1.57)	369 (284)
20	157 (49)	187 (58)	1.15 (0.36)	252 (78)	161 (36)	207 (46)	1.18 (0.26)	258 (58)	156 (43)	203 (56)	1.36 (0.38)	250 (70)
21	158 (32)	187 (38)	1.14 (0.23)	252 (51)	145 (32)	186 (41)	1.05 (0.23)	231 (51)	173 (32)	225 (41)	1.48 (0.27)	277 (51)
22	202 (101)	239 (119)	1.44 (0.72)	323 (161)	195 (56)	250 (72)	1.39 (0.40)	311 (90)	226 (99)	294 (128)	1.91 (0.84)	362 (158)
23	145 (49)	171 (57)	1.02 (0.34)	231 (78)	132 (33)	169 (42)	0.93 (0.23)	211 (53)	148 (45)	193 (58)	1.23 (0.37)	237 (72)
24	187 (33)	222 (40)	1.30 (0.23)	300 (53)	137 (24)	175 (31)	0.96 (0.17)	219 (38)	170 (34)	221 (45)	1.39 (0.28)	271 (55)
25	200 (63)	237 (74)	1.38 (0.43)	320 (100)	140 (38)	180 (49)	0.97 (0.26)	225 (61)	176 (54)	229 (70)	1.43 (0.44)	281 (86)
26	187 (74)	222 (87)	1.28 (0.51)	300 (118)	143 (38)	184 (48)	0.98 (0.26)	229 (60)	160 (56)	208 (73)	1.28 (0.45)	256 (90)
27	193 (74)	230 (88)	1.31 (0.51)	309 (119)	144 (31)	186 (40)	0.98 (0.21)	231 (50)	209 (57)	272 (75)	1.66 (0.45)	335 (92)
28	253 (58)	301 (69)	1.70 (0.39)	405 (93)	174 (39)	224 (50)	1.17 (0.26)	279 (62)	305 (67)	398 (87)	2.39 (0.53)	488 (107)
29	421 (875)	501 (1040)	2.81 (5.83)	674 (1400)	214 (167)	276 (215)	1.43 (1.12)	343 (267)	253 (101)	330 (132)	1.96 (0.79)	405 (162)
30	137 (39)	164 (46)	0.91 (0.26)	220 (62)	140 (25)	180 (32)	0.93 (0.16)	224 (39)	157 (37)	205 (48)	1.20 (0.28)	252 (59)
31	146 (25)	174 (30)	0.96 (0.17)	233 (40)	142 (23)	182 (30)	0.93 (0.15)	227 (37)	156 (50)	203 (66)	1.18 (0.38)	249 (81)
Avg	186	220	1.41	297	162	208	1.25	259	182	237	1.65	292
n	28	28	28	28	28	28	28	28	28	28	28	28
SD	64	75	0.48	102	34	43	0.33	54	47	62	0.40	76
Min	101	120	0.80	162	127	163	0.93	204	96	124	1.04	153
Max	421	501	2.81	674	255	327	2.19	409	305	398	2.39	488

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for June, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	162 (33)	193 (39)	1.05 (0.22)	259 (53)	113 (31)	146 (40)	0.74 (0.20)	181 (50)	204 (73)	266 (96)	1.52 (0.55)	326 (117)
2	212 (149)	253 (178)	1.37 (0.97)	339 (239)	221 (119)	284 (153)	1.43 (0.77)	353 (191)	240 (155)	314 (203)	1.78 (1.15)	384 (248)
3	136 (44)	163 (52)	0.88 (0.28)	218 (70)	155 (34)	199 (43)	0.99 (0.21)	248 (54)	151 (30)	197 (39)	1.11 (0.22)	242 (48)
4	129 (26)	153 (32)	0.82 (0.17)	206 (42)	149 (30)	192 (38)	0.95 (0.19)	238 (47)	168 (50)	220 (66)	1.22 (0.37)	270 (81)
5	149 (37)	178 (44)	0.94 (0.23)	239 (58)	178 (87)	229 (112)	1.13 (0.55)	285 (139)	204 (159)	267 (208)	1.47 (1.15)	326 (254)
6	147 (23)	175 (27)	0.92 (0.14)	234 (37)	146 (19)	188 (25)	0.92 (0.12)	234 (31)	153 (44)	200 (57)	1.09 (0.31)	244 (70)
7	169 (38)	202 (46)	1.05 (0.24)	270 (61)	125 (35)	161 (45)	0.78 (0.22)	200 (56)	174 (50)	228 (65)	1.23 (0.35)	278 (79)
8	179 (55)	214 (66)	1.11 (0.35)	287 (89)	123 (41)	158 (52)	0.76 (0.25)	196 (65)	155 (54)	204 (71)	1.09 (0.38)	248 (86)
9	212 (85)	253 (102)	1.31 (0.53)	339 (136)	145 (97)	187 (125)	0.90 (0.60)	232 (156)	97 (95)	127 (125)	0.67 (0.66)	155 (152)
10	151 (48)	181 (57)	0.93 (0.29)	241 (76)	81 (29)	105 (37)	0.50 (0.18)	130 (46)				
11												
12												
13	148 (43)	178 (51)	0.90 (0.26)	236 (68)	126 (21)	163 (27)	0.76 (0.13)	202 (33)	146 (35)	191 (46)	0.98 (0.23)	233 (55)
14	171 (48)	206 (58)	1.03 (0.29)	273 (77)	124 (33)	161 (42)	0.75 (0.20)	198 (52)	161 (41)	212 (54)	1.08 (0.28)	258 (66)
15	210 (71)	253 (86)	1.26 (0.43)	336 (114)	99 (17)	129 (22)	0.60 (0.10)	159 (28)	192 (32)	253 (42)	1.28 (0.21)	307 (52)
16	188 (77)	227 (94)	1.13 (0.47)	300 (124)	98 (59)	128 (76)	0.59 (0.35)	157 (94)	187 (61)	246 (80)	1.23 (0.40)	299 (98)
17	149 (44)	181 (53)	0.89 (0.26)	239 (70)	84 (16)	109 (20)	0.50 (0.09)	134 (25)	180 (26)	237 (34)	1.18 (0.17)	287 (42)
18	139 (45)	168 (54)	0.83 (0.27)	222 (72)	86 (23)	112 (30)	0.51 (0.14)	138 (37)	221 (60)	292 (80)	1.44 (0.39)	354 (96)
19	139 (50)	169 (60)	0.83 (0.29)	223 (80)	110 (24)	143 (31)	0.65 (0.14)	176 (38)	242 (91)	320 (119)	1.57 (0.59)	387 (145)
20	230 (308)	280 (375)	1.36 (1.82)	368 (493)	186 (198)	242 (257)	1.09 (1.16)	297 (316)	275 (129)	364 (171)	1.77 (0.83)	440 (206)
21	128 (34)	155 (41)	0.75 (0.20)	204 (54)	131 (30)	170 (38)	0.76 (0.17)	209 (47)	211 (41)	280 (54)	1.36 (0.26)	338 (65)
22												
23	180 (172)	220 (209)	1.05 (1.00)	288 (275)	189 (190)	246 (248)	1.10 (1.10)	303 (304)	260 (153)	345 (203)	1.65 (0.97)	417 (245)
24	126 (23)	172 (31)	0.83 (0.15)	202 (36)	181 (56)	267 (83)	1.18 (0.37)	289 (89)	204 (53)	309 (92)	1.47 (0.44)	327 (85)
25	110 (48)	172 (75)	0.84 (0.36)	175 (76)	166 (63)	285 (108)	1.26 (0.48)	266 (101)	210 (91)	369 (159)	1.75 (0.75)	336 (145)
26	180 (247)	283 (389)	1.37 (1.88)	288 (395)	161 (36)	276 (61)	1.21 (0.27)	257 (57)	325 (124)	572 (218)	2.69 (1.03)	520 (198)
27	115 (16)	182 (26)	0.87 (0.12)	185 (26)	140 (36)	240 (61)	1.05 (0.27)	224 (57)	224 (26)	395 (46)	1.85 (0.22)	358 (42)
28	131 (17)	206 (26)	0.99 (0.13)	209 (27)	156 (31)	270 (53)	1.17 (0.23)	250 (49)	244 (36)	431 (64)	2.00 (0.30)	391 (58)
29	147 (27)	231 (43)	1.10 (0.20)	235 (43)	177 (21)	305 (36)	1.32 (0.16)	283 (34)	231 (37)	407 (65)	1.88 (0.30)	369 (59)
30	149 (40)	234 (62)	1.11 (0.30)	238 (63)	164 (24)	284 (41)	1.23 (0.18)	263 (38)	272 (133)	481 (235)	2.21 (1.08)	436 (213)
Avg	159	203	1.02	254	141	199	0.92	226	205	297	1.48	328
n	27	27	27	27	27	27	27	27	26	26	26	26
SD	31	37	0.18	50	35	62	0.27	56	49	100	0.43	78
Min	110	153	0.75	175	81	105	0.50	130	97	127	0.67	155
Max	230	283	1.37	368	221	305	1.43	353	325	572	2.69	520

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for July, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	109 (59)	185 (100)	0.89 (0.48)	175 (94)	135 (44)	253 (83)	1.09 (0.36)	216 (70)	170 (44)	300 (78)	1.37 (0.36)	272 (71)
2	140 (73)	259 (135)	1.25 (0.65)	224 (117)	142 (50)	292 (103)	1.26 (0.45)	228 (80)	207 (60)	365 (107)	1.67 (0.49)	331 (97)
3	163 (70)	302 (130)	1.45 (0.62)	261 (112)	169 (33)	348 (68)	1.50 (0.30)	271 (53)	217 (97)	383 (171)	1.74 (0.78)	347 (155)
4	138 (40)	256 (73)	1.23 (0.35)	221 (63)	218 (29)	448 (60)	1.93 (0.26)	349 (47)	177 (34)	312 (61)	1.41 (0.28)	283 (55)
5												
6												
7												
8												
9	131 (35)	243 (65)	1.15 (0.31)	209 (56)	196 (36)	404 (73)	1.71 (0.31)	314 (57)	161 (64)	295 (115)	1.31 (0.51)	258 (103)
10	184 (33)	343 (62)	1.61 (0.29)	294 (53)	234 (79)	483 (163)	2.03 (0.69)	375 (126)	184 (72)	347 (136)	1.53 (0.60)	294 (116)
11												
12	161 (49)	302 (92)	1.41 (0.43)	258 (79)	145 (18)	300 (37)	1.25 (0.16)	233 (29)				
13	170 (48)	318 (90)	1.48 (0.42)	272 (77)	145 (21)	300 (43)	1.25 (0.18)	233 (33)				
14	233 (215)	436 (403)	2.02 (1.87)	372 (344)	172 (55)	355 (114)	1.47 (0.47)	275 (88)				
15	142 (32)	266 (60)	1.23 (0.28)	228 (51)	151 (60)	313 (123)	1.29 (0.51)	242 (95)				
16	135 (42)	252 (79)	1.16 (0.36)	216 (67)	124 (22)	256 (46)	1.05 (0.19)	198 (35)				
17	149 (86)	280 (162)	1.28 (0.74)	239 (138)	153 (41)	384 (70)	1.57 (0.29)	244 (66)	212 (128)	400 (242)	1.73 (1.05)	339 (205)
18	107 (33)	200 (62)	0.91 (0.28)	170 (53)	125 (15)	418 (50)	1.71 (0.20)	199 (24)	165 (35)	311 (67)	1.35 (0.29)	264 (57)
19	102 (25)	191 (47)	0.87 (0.21)	163 (40)	130 (15)	436 (49)	1.77 (0.20)	208 (24)	171 (46)	324 (86)	1.40 (0.37)	274 (73)
20	134 (28)	251 (53)	1.13 (0.24)	214 (45)	181 (41)	607 (138)	2.46 (0.56)	289 (66)	228 (88)	432 (166)	1.86 (0.72)	365 (140)
21	163 (73)	305 (137)	1.37 (0.62)	261 (117)	209 (131)	702 (440)	2.83 (1.78)	335 (210)	246 (250)	467 (475)	2.00 (2.04)	393 (400)
22	123 (21)	554 (397)	2.86 (2.19)	197 (34)	169 (22)	731 (167)	2.96 (0.69)	270 (35)	161 (22)	306 (42)	1.31 (0.18)	257 (35)
23					127 (49)	743 (284)	3.02 (1.15)	203 (78)	164 (28)	312 (53)	1.33 (0.23)	262 (45)
24					179 (37)	1040 (218)	4.22 (0.88)	286 (60)	216 (71)	412 (135)	1.75 (0.58)	345 (114)
25												
26												
27												
28												
29												
30												
31												
Avg	146	291	1.37	234	163	464	1.91	261	191	355	1.55	306
n	17	17	17	17	19	19	19	19	14	14	14	14
SD	31	88	0.46	50	32	205	0.81	51	28	54	0.23	44
Min	102	185	0.87	163	124	253	1.05	198	161	295	1.31	257
Max	233	554	2.86	372	234	1040	4.22	375	246	467	2.00	393

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for August, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1												
2												
3												
4												
5												
6												
7												
8												
9	104 (47)	125 (57)	2.53 (1.16)	166 (75)	98 (21)	134 (29)	2.56 (0.57)	157 (34)				
10					93 (14)	126 (19)	2.35 (0.34)	148 (22)	67 (38)			108 (61)
11	239 (86)	287 (103)	5.59 (2.01)	383 (137)	151 (109)	205 (148)	3.76 (2.72)	241 (174)	122 (56)			195 (89)
12	178 (83)	213 (100)	4.06 (1.92)	284 (133)	85 (33)	116 (45)	2.08 (0.82)	136 (53)	123 (35)	167 (48)	3.74 (1.08)	196 (56)
13	235 (58)	281 (69)	5.27 (1.30)	375 (93)	78 (28)	105 (37)	1.86 (0.66)	124 (44)	158 (69)	215 (94)	4.69 (2.02)	253 (110)
14	220 (60)	264 (72)	4.86 (1.33)	353 (96)	130 (33)	176 (44)	3.06 (0.76)	208 (52)	170 (60)	231 (81)	4.90 (1.74)	271 (96)
15	167 (49)	200 (59)	3.63 (1.07)	268 (78)	143 (19)	195 (25)	3.32 (0.42)	229 (30)	170 (43)	232 (59)	4.80 (1.22)	272 (69)
16					157 (21)	214 (28)	3.58 (0.46)	251 (33)	206 (40)	280 (54)	5.69 (1.10)	329 (63)
17	180 (41)	216 (49)	3.78 (0.87)	288 (65)	181 (31)	247 (42)	4.06 (0.70)	290 (50)	222 (54)	303 (74)	6.01 (1.47)	355 (87)
18	188 (63)	225 (76)	3.88 (1.31)	301 (101)	211 (46)	287 (63)	4.66 (1.02)	337 (74)	242 (93)	330 (126)	6.42 (2.47)	387 (148)
19	133 (34)	160 (41)	2.71 (0.70)	213 (55)	196 (24)	268 (33)	4.27 (0.52)	314 (38)	188 (85)	256 (116)	4.90 (2.24)	301 (136)
20	121 (24)	146 (29)	2.43 (0.49)	194 (39)	189 (20)	258 (27)	4.05 (0.42)	303 (31)	175 (49)	238 (67)	4.47 (1.27)	279 (79)
21	160 (64)	192 (77)	3.16 (1.25)	256 (102)	213 (69)	291 (94)	4.48 (1.44)	341 (110)	195 (65)	266 (89)	4.91 (1.64)	312 (105)
22	100 (15)	121 (18)	1.95 (0.30)	161 (24)	177 (19)	241 (26)	3.66 (0.40)	283 (31)	149 (51)	203 (70)	3.68 (1.27)	238 (82)
23	98 (28)	117 (34)	1.87 (0.53)	156 (45)	166 (25)	226 (35)	3.37 (0.52)	265 (41)	148 (41)	202 (56)	3.61 (1.01)	237 (66)
24	116 (20)	139 (24)	2.17 (0.38)	185 (32)	164 (25)	224 (34)	3.28 (0.50)	262 (40)	181 (61)	247 (84)	4.33 (1.48)	289 (98)
25												
26												
27	103 (12)	124 (14)	1.84 (0.20)	165 (19)	147 (25)	201 (35)	2.79 (0.48)	236 (41)	180 (33)	246 (44)	4.12 (0.75)	288 (52)
28	112 (15)	135 (18)	1.96 (0.26)	179 (24)	158 (21)	216 (29)	2.94 (0.39)	252 (34)	182 (19)	248 (26)	4.09 (0.43)	290 (31)
29	121 (26)	145 (31)	2.08 (0.45)	193 (42)	163 (19)	223 (26)	2.98 (0.34)	261 (30)	183 (22)	249 (30)	4.05 (0.50)	292 (36)
30	127 (27)	153 (33)	2.16 (0.46)	203 (43)	163 (12)	224 (16)	2.93 (0.21)	261 (19)	196 (20)	268 (27)	4.29 (0.45)	314 (32)
31												
Avg	150	180	3.11	240	153	209	3.30	245	171	246	4.63	274
n	18	18	18	18	20	20	20	20	19	17	17	19
SD	46	55	1.20	74	39	53	0.76	62	38	38	0.78	61
Min	98	117	1.84	156	78	105	1.86	124	67	167	3.61	108
Max	239	287	5.59	383	213	291	4.66	341	242	330	6.42	387

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for September, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	126 (46)	152 (56)	2.06 (0.77)	201 (74)	175 (31)	240 (42)	3.01 (0.55)	280 (49)	176 (37)	240 (51)	3.72 (0.80)	281 (60)
2	78 (18)	95 (22)	1.26 (0.29)	125 (28)	125 (24)	172 (33)	2.12 (0.41)	200 (38)	156 (57)	214 (77)	3.25 (1.18)	250 (91)
3	93 (17)	113 (21)	1.47 (0.27)	149 (28)	122 (22)	167 (31)	2.02 (0.37)	195 (36)	155 (47)	213 (64)	3.18 (0.97)	249 (75)
4	90 (22)	109 (27)	1.40 (0.34)	144 (35)	121 (17)	166 (23)	1.96 (0.27)	193 (26)	169 (60)	231 (82)	3.40 (1.21)	271 (96)
5												
6												
7												
8												
9												
10												
11												
12	172 (33)	210 (41)	2.28 (0.44)	274 (53)	175 (17)	241 (23)	2.39 (0.22)	280 (27)	208 (26)	285 (35)	3.60 (0.45)	332 (41)
13	179 (33)	219 (40)	2.32 (0.43)	286 (52)	185 (22)	255 (30)	2.48 (0.29)	296 (35)	185 (34)	253 (46)	3.14 (0.59)	295 (54)
14	191 (36)	234 (44)	2.43 (0.46)	306 (58)	201 (26)	276 (36)	2.63 (0.34)	322 (42)	185 (35)	253 (48)	3.07 (0.58)	295 (56)
15	179 (45)	219 (55)	2.23 (0.56)	287 (71)	224 (72)	308 (99)	2.86 (0.92)	358 (115)	210 (47)	288 (64)	3.43 (0.77)	336 (75)
16	97 (25)	119 (31)	1.18 (0.31)	155 (41)	152 (21)	210 (29)	1.91 (0.27)	244 (34)	168 (31)	231 (43)	2.68 (0.49)	269 (50)
17	70 (26)	86 (32)	0.84 (0.31)	112 (42)	167 (25)	230 (35)	2.05 (0.31)	268 (40)	244 (93)	335 (127)	3.81 (1.44)	390 (148)
18	135 (40)	166 (49)	1.58 (0.46)	217 (64)	203 (59)	280 (82)	2.44 (0.71)	325 (95)	386 (131)	531 (181)	5.92 (2.03)	617 (210)
19	166 (42)	203 (52)	1.90 (0.48)	266 (68)	229 (107)	315 (147)	2.69 (1.25)	366 (171)	406 (127)	558 (175)	6.10 (1.91)	649 (203)
20	208 (68)	254 (83)	2.33 (0.76)	332 (108)	267 (110)	368 (151)	3.08 (1.27)	428 (176)	434 (148)	598 (204)	6.39 (2.19)	695 (237)
21												
22	321 (161)	393 (197)	3.46 (1.74)	513 (257)	318 (189)	438 (260)	3.52 (2.10)	510 (303)	428 (248)	590 (342)	6.06 (3.52)	684 (396)
23	172 (64)	211 (79)	1.82 (0.67)	275 (102)	167 (97)	229 (134)	1.81 (1.06)	267 (156)	144 (105)	198 (144)	2.00 (1.46)	230 (168)
24	121 (114)	148 (140)	1.26 (1.18)	194 (182)	82 (20)	113 (27)	0.87 (0.21)	131 (31)	89 (48)	122 (67)	1.20 (0.65)	142 (77)
25	47 (40)	58 (49)	0.48 (0.40)	75 (63)	114 (22)	156 (30)	1.18 (0.23)	182 (35)	104 (57)	144 (79)	1.39 (0.76)	167 (91)
26	128 (20)	157 (25)	1.27 (0.20)	204 (32)	158 (28)	217 (38)	1.61 (0.28)	252 (44)	162 (17)	224 (24)	2.11 (0.22)	259 (28)
27	213 (33)	262 (41)	2.09 (0.32)	341 (53)	220 (49)	303 (68)	2.20 (0.49)	352 (79)	196 (29)	271 (41)	2.51 (0.37)	314 (47)
28	299 (42)	368 (51)	2.87 (0.39)	478 (67)	313 (56)	430 (77)	3.08 (0.54)	501 (90)	245 (43)	339 (59)	3.06 (0.53)	391 (69)
29												
30	473 (45)	582 (56)	4.38 (0.41)	756 (72)	573 (89)	789 (123)	5.44 (0.84)	917 (143)	398 (50)	551 (69)	4.79 (0.59)	637 (79)
Avg	169	208	1.95	271	204	281	2.44	327	231	318	3.56	369
n	21	21	21	21	21	21	21	21	21	21	21	21
SD	96	118	0.87	153	102	141	0.92	163	107	148	1.47	171
Min	47	58	0.48	75	82	113	0.87	131	89	122	1.20	142
Max	473	582	4.38	756	573	789	5.44	917	434	598	6.39	695

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for October, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	591 (82)	729 (101)	5.38 (0.74)	946 (131)	666 (96)	916 (132)	6.21 (0.89)	1060 (154)	506 (121)	701 (168)	5.96 (1.42)	809 (194)
2	688 (236)	849 (291)	6.16 (2.11)	1100 (377)	737 (224)	1010 (309)	6.77 (2.07)	1180 (359)				
3	584 (310)	720 (383)	5.13 (2.74)	934 (497)	706 (271)	972 (373)	6.37 (2.45)	1130 (433)				
4	669 (259)	827 (320)	5.78 (2.24)	1070 (414)	643 (192)	885 (265)	5.71 (1.70)	1030 (307)	612 (222)	848 (307)	6.81 (2.47)	979 (354)
5	733 (208)	905 (257)	6.23 (1.77)	1170 (332)	672 (172)	926 (237)	5.88 (1.50)	1080 (275)				
6	598 (230)	740 (285)	5.01 (1.94)	957 (368)	535 (241)	737 (332)	4.61 (2.10)	857 (386)	575 (246)	798 (341)	6.17 (2.66)	920 (393)
7	384 (86)	475 (106)	3.16 (0.70)	614 (137)	442 (152)	609 (209)	3.75 (1.28)	708 (243)	431 (176)	599 (244)	4.54 (1.85)	690 (281)
8	386 (112)	478 (139)	3.13 (0.91)	618 (179)	436 (145)	601 (199)	3.65 (1.21)	698 (231)	425 (177)	590 (245)	4.39 (1.83)	680 (283)
9	395 (77)	489 (96)	3.15 (0.62)	632 (124)	431 (163)	594 (224)	3.56 (1.35)	690 (260)	426 (121)	592 (167)	4.33 (1.24)	681 (193)
10	387 (58)	480 (72)	3.05 (0.46)	620 (93)	439 (161)	605 (221)	3.57 (1.31)	702 (257)	436 (270)	606 (376)	4.35 (2.71)	697 (432)
11	315 (42)	391 (52)	2.45 (0.33)	504 (67)	331 (100)	456 (138)	2.66 (0.80)	530 (161)	314 (47)	437 (66)	3.09 (0.47)	503 (76)
12	294 (47)	364 (59)	2.25 (0.36)	470 (76)	313 (143)	431 (197)	2.48 (1.14)	501 (229)	290 (91)	404 (127)	2.80 (0.88)	464 (146)
13	326 (84)	405 (104)	2.46 (0.63)	522 (134)	336 (156)	463 (216)	2.63 (1.22)	538 (250)	327 (106)	456 (148)	3.11 (1.01)	524 (170)
14	347 (109)	431 (135)	2.58 (0.81)	556 (174)	352 (147)	486 (203)	2.72 (1.14)	564 (236)	371 (123)	517 (171)	3.47 (1.15)	593 (196)
15	361 (143)	448 (177)	2.65 (1.05)	578 (228)	372 (141)	513 (194)	2.84 (1.07)	595 (225)	394 (134)	549 (186)	3.63 (1.24)	631 (214)
16	394 (93)	490 (115)	2.86 (0.68)	631 (148)	379 (155)	523 (214)	2.86 (1.17)	607 (248)	397 (107)	554 (149)	3.61 (0.98)	636 (171)
17	416 (95)	517 (118)	2.97 (0.67)	665 (152)	437 (185)	604 (256)	3.27 (1.38)	700 (296)	383 (122)	535 (171)	3.43 (1.09)	614 (196)
18	406 (304)	504 (378)	2.87 (2.15)	649 (487)					378 (272)	526 (379)	3.33 (2.39)	604 (435)
19	416 (302)	517 (375)	2.90 (2.11)	665 (483)					461 (314)	643 (438)	4.01 (2.73)	738 (503)
20	507 (641)	631 (797)	3.51 (4.44)	812 (1030)	570 (437)	789 (605)	4.14 (3.18)	913 (700)	407 (506)	567 (705)	3.49 (4.35)	651 (809)
21									221 (148)	309 (207)	1.87 (1.25)	354 (237)
22	386 (195)	482 (243)	2.62 (1.32)	618 (312)	316 (108)	438 (150)	2.25 (0.77)	506 (173)	247 (168)	345 (235)	2.06 (1.40)	395 (269)
23	389 (223)	486 (278)	2.61 (1.50)	622 (356)					305 (206)	426 (288)	2.51 (1.70)	488 (330)
24	459 (118)	574 (147)	3.05 (0.78)	735 (188)	415 (172)	575 (239)	2.90 (1.20)	665 (276)	400 (204)	558 (285)	3.25 (1.66)	640 (327)
25	518 (73)	648 (91)	3.41 (0.48)	829 (116)	371 (148)	514 (205)	2.57 (1.03)	593 (237)	537 (76)	749 (106)	4.31 (0.60)	858 (121)
26	694 (159)	870 (200)	4.53 (1.04)	1110 (255)	466 (146)	645 (202)	3.20 (1.00)	745 (233)	628 (207)	877 (290)	4.99 (1.65)	1000 (332)
27	781 (599)	980 (751)	5.06 (3.88)	1250 (958)	538 (439)	746 (609)	3.67 (3.00)	861 (703)				
28	325 (215)	408 (270)	2.09 (1.38)	520 (345)	163 (74)	226 (102)	1.10 (0.50)	261 (118)				
29	297 (205)	373 (258)	1.89 (1.31)	475 (328)	89 (43)	124 (60)	0.60 (0.29)	143 (69)	94 (87)	132 (121)	0.72 (0.67)	151 (139)
30	285 (200)	359 (251)	1.80 (1.26)	455 (319)	100 (50)	139 (69)	0.67 (0.33)	160 (79)	109 (103)	152 (144)	0.83 (0.78)	174 (165)
31	309 (229)	390 (289)	1.94 (1.44)	495 (367)	147 (72)	203 (100)	0.97 (0.48)	235 (115)	190 (169)	266 (237)	1.43 (1.28)	304 (271)
Avg	455	565	3.42	728	422	583	3.39	676	379	528	3.56	607
n	30	30	30	30	27	27	27	27	26	26	26	26
SD	143	177	1.30	229	173	238	1.65	277	134	186	1.47	214
Min	285	359	1.80	455	89	124	0.60	143	94	132	0.72	151
Max	781	980	6.23	1250	737	1010	6.77	1180	628	877	6.81	1000

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for November, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	357 (257)	451 (324)	2.23 (1.60)	571 (411)	231 (83)	321 (115)	1.51 (0.54)	370 (132)	321 (261)	448 (364)	2.39 (1.94)	513 (417)
2												
3												
4												
5	393 (50)	498 (63)	2.39 (0.31)	628 (80)	427 (100)	593 (139)	2.71 (0.63)	684 (161)	550 (81)	770 (113)	3.96 (0.58)	880 (129)
6	487 (225)	618 (285)	2.95 (1.36)	780 (360)	704 (471)	978 (654)	4.44 (2.97)	1130 (753)	583 (107)	815 (150)	4.16 (0.77)	932 (171)
7	372 (75)	472 (96)	2.24 (0.45)	596 (121)	538 (187)	747 (259)	3.36 (1.17)	860 (299)	580 (142)	812 (199)	4.12 (1.01)	929 (228)
8	333 (178)	422 (226)	1.99 (1.06)	532 (285)					589 (118)	825 (166)	4.16 (0.84)	943 (190)
9	174 (98)	221 (125)	1.03 (0.58)	278 (157)								
10	398 (515)	505 (654)	2.35 (3.04)	636 (823)	726 (254)	1670 (583)	7.69 (2.69)	1160 (406)	486 (326)	680 (457)	3.37 (2.27)	777 (521)
11	205 (113)	261 (144)	1.20 (0.66)	328 (181)	582 (195)	1340 (449)	6.12 (2.05)	932 (313)	437 (268)	612 (376)	3.02 (1.85)	699 (429)
12	216 (80)	275 (102)	1.26 (0.47)	346 (128)	564 (193)	1300 (444)	5.89 (2.01)	902 (309)	386 (158)	541 (221)	2.64 (1.08)	617 (252)
13	299 (226)	381 (288)	1.73 (1.31)	479 (362)	582 (201)	1340 (464)	6.05 (2.10)	932 (322)	546 (358)	765 (502)	3.72 (2.44)	873 (573)
14	281 (45)	358 (58)	1.62 (0.26)	450 (73)	566 (123)	1310 (283)	5.85 (1.27)	906 (196)	450 (54)	631 (75)	3.05 (0.37)	720 (86)
15	366 (80)	466 (102)	2.10 (0.46)	586 (128)	596 (154)	1370 (354)	6.12 (1.57)	953 (246)	476 (92)	668 (129)	3.21 (0.62)	761 (147)
16	529 (168)	674 (214)	3.01 (0.96)	847 (269)	590 (253)	1360 (585)	6.03 (2.59)	944 (405)	659 (222)	926 (311)	4.42 (1.49)	1050 (355)
17	536 (277)	683 (353)	3.03 (1.57)	858 (443)	501 (155)	1160 (358)	5.10 (1.58)	801 (248)	565 (339)	793 (477)	3.77 (2.26)	904 (543)
18	784 (502)	1200 (744)	5.36 (3.31)	1260 (803)	530 (298)	1230 (690)	5.37 (3.02)	847 (477)				
19	364 (333)	728 (666)	3.25 (2.98)	582 (533)	282 (169)	652 (390)	2.84 (1.70)	451 (270)	390 (318)	548 (447)	2.57 (2.10)	624 (509)
20	325 (243)	650 (487)	2.89 (2.16)	520 (390)	274 (155)	636 (360)	2.75 (1.56)	439 (249)	363 (284)	510 (399)	2.38 (1.86)	581 (454)
21	323 (212)	646 (425)	2.86 (1.88)	517 (339)								
22	271 (211)	542 (423)	2.39 (1.86)	433 (338)	214 (160)	496 (372)	2.13 (1.60)	342 (256)	453 (381)	637 (535)	2.94 (2.47)	725 (610)
23	222 (171)	445 (343)	1.95 (1.50)	355 (274)	219 (211)	508 (490)	2.17 (2.09)	350 (338)	466 (366)	654 (515)	3.01 (2.37)	745 (586)
24	326 (466)	654 (935)	2.85 (4.08)	522 (746)	306 (303)	710 (704)	3.02 (2.99)	489 (485)	502 (385)	705 (541)	3.22 (2.48)	803 (617)
25	146 (77)	292 (154)	1.27 (0.67)	233 (123)					368 (187)	587 (326)	2.71 (1.51)	588 (299)
26	136 (147)	273 (296)	1.18 (1.28)	218 (236)	236 (320)	548 (745)	2.31 (3.14)	377 (513)	292 (280)	561 (536)	2.61 (2.50)	468 (447)
27	120 (89)	242 (179)	1.04 (0.77)	193 (143)	260 (282)	604 (657)	2.54 (2.76)	416 (452)	242 (205)	464 (393)	2.15 (1.83)	386 (328)
28	154 (89)	310 (179)	1.33 (0.77)	246 (142)	345 (260)	802 (605)	3.36 (2.53)	551 (416)	304 (194)	585 (374)	2.70 (1.73)	487 (311)
29	169 (123)	341 (248)	1.46 (1.06)	271 (197)	288 (298)	670 (694)	2.80 (2.90)	461 (477)	226 (200)	436 (385)	2.01 (1.77)	362 (320)
30	209 (89)	422 (179)	1.80 (0.76)	335 (142)	375 (196)	872 (457)	3.63 (1.90)	600 (314)				
Avg	315	483	2.18	504	432	922	4.08	691	445	651	3.14	712
n	27	27	27	27	23	23	23	23	23	23	23	23
SD	146	206	0.92	234	164	368	1.71	262	117	131	0.69	187
Min	120	221	1.03	193	214	321	1.51	342	226	436	2.01	362
Max	784	1200	5.36	1260	726	1670	7.69	1160	659	926	4.42	1050

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for December, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	302 (154)	609 (311)	2.58 (1.32)	483 (246)					435 (207)	840 (400)	3.84 (1.83)	696 (332)
2	310 (235)	626 (475)	2.65 (2.01)	496 (376)	249 (329)	580 (765)	2.40 (3.16)	399 (526)	313 (262)	605 (507)	2.75 (2.31)	501 (420)
3	273 (229)	552 (463)	2.33 (1.95)	437 (367)	228 (319)	531 (742)	2.19 (3.06)	365 (510)	299 (296)	578 (572)	2.62 (2.60)	479 (473)
4	275 (206)	555 (416)	2.33 (1.75)	439 (329)	268 (276)	624 (643)	2.56 (2.64)	428 (442)	290 (231)	561 (447)	2.54 (2.02)	464 (370)
5	308 (226)	623 (456)	2.61 (1.91)	493 (361)					356 (254)	688 (492)	3.10 (2.22)	569 (407)
6	273 (204)	552 (412)	2.30 (1.72)	437 (326)	259 (282)	605 (657)	2.47 (2.68)	415 (451)	302 (231)	585 (448)	2.63 (2.01)	483 (370)
7	284 (235)	575 (476)	2.39 (1.98)	454 (376)	187 (274)	437 (640)	1.78 (2.60)	300 (439)	289 (241)	561 (467)	2.51 (2.09)	463 (386)
8	246 (229)	497 (464)	2.06 (1.93)	393 (367)	201 (314)	469 (733)	1.90 (2.97)	322 (502)	300 (311)	581 (603)	2.59 (2.69)	479 (498)
9	274 (111)	554 (225)	2.29 (0.93)	438 (178)	335 (171)	782 (400)	3.16 (1.62)	536 (274)	303 (155)	588 (300)	2.61 (1.33)	485 (247)
10	301 (35)	610 (70)	2.51 (0.29)	482 (55)	408 (60)	954 (140)	3.84 (0.56)	653 (96)	261 (34)	508 (66)	2.25 (0.29)	418 (54)
11	369 (59)	747 (120)	3.07 (0.49)	591 (95)	475 (59)	1110 (138)	4.45 (0.55)	759 (95)	345 (72)	672 (140)	2.97 (0.62)	553 (115)
12	567 (597)	1150 (1210)	4.70 (4.95)	908 (956)					501 (139)	975 (270)	4.29 (1.19)	801 (222)
13												
14	283 (167)	572 (338)	2.32 (1.37)	452 (267)	301 (241)	705 (565)	2.79 (2.24)	482 (386)	256 (179)	499 (348)	2.17 (1.52)	409 (286)
15	346 (65)	701 (131)	2.83 (0.53)	554 (103)	413 (70)	966 (163)	3.81 (0.64)	660 (112)	307 (61)	599 (118)	2.60 (0.51)	491 (97)
16	355 (198)	719 (402)	2.90 (1.62)	568 (317)	422 (221)	988 (518)	3.88 (2.03)	675 (354)	280 (194)	546 (379)	2.36 (1.64)	448 (310)
17	281 (93)	569 (187)	2.28 (0.75)	450 (148)	426 (128)	997 (299)	3.90 (1.17)	681 (204)	220 (91)	491 (181)	2.10 (0.78)	352 (146)
18	267 (33)	541 (66)	2.16 (0.26)	428 (53)	430 (143)	1010 (336)	3.92 (1.31)	688 (230)	211 (55)	545 (141)	2.31 (0.60)	338 (88)
19	353 (143)	714 (289)	2.84 (1.15)	565 (229)	534 (119)	1250 (278)	4.84 (1.07)	854 (190)	293 (117)	756 (302)	3.19 (1.28)	468 (187)
20	345 (45)	698 (92)	2.76 (0.36)	551 (72)	463 (154)	1090 (361)	4.18 (1.39)	742 (247)	295 (55)	761 (143)	3.19 (0.60)	471 (88)
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	33 (20)	40 (23)	0.90 (0.53)	53 (31)					115 (295)			185 (472)
31												
Avg	302	610	2.54	484	350	818	3.25	560	298	628	2.77	478
n	20	20	20	20	16	16	16	16	20	19	19	20
SD	91	188	0.66	145	105	248	0.93	169	76	123	0.55	122
Min	33	40	0.90	53	187	437	1.78	300	115	491	2.10	185
Max	567	1150	4.70	908	534	1250	4.84	854	501	975	4.29	801

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for January, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1					16 (15)	19 (19)	0.41 (0.40)	25 (25)				
2												
3	23 (29)	28 (35)	0.56 (0.71)	37 (47)								
4	23 (31)	27 (37)	0.54 (0.73)	37 (49)								
5	102 (252)	121 (300)	2.36 (5.84)	163 (403)								
6	48 (43)	58 (52)	1.10 (0.98)	77 (69)								
7	54 (48)	64 (58)	1.21 (1.08)	86 (77)	62 (42)	76 (51)	1.41 (0.95)	99 (67)				
8	59 (96)	70 (114)	1.30 (2.11)	94 (153)								
9	54 (81)	64 (97)	1.16 (1.75)	86 (129)	40 (32)	49 (40)	0.87 (0.71)	64 (52)				
10	59 (72)	71 (87)	1.27 (1.54)	95 (116)								
11	91 (123)	109 (147)	1.91 (2.57)	146 (197)								
12	140 (517)	168 (621)	2.90 (10.70)	224 (827)								
13	39 (62)	47 (75)	0.80 (1.27)	63 (100)	23 (35)	28 (43)	0.47 (0.72)	36 (56)				
14	34 (57)	41 (68)	0.68 (1.14)	54 (91)	27 (28)	33 (34)	0.54 (0.57)	43 (45)				
15	56 (172)	67 (206)	1.11 (3.40)	90 (275)								
16	24 (38)	29 (45)	0.47 (0.73)	38 (60)								
17	21 (34)	26 (41)	0.41 (0.65)	34 (55)	19 (21)	23 (26)	0.36 (0.41)	30 (34)				
18												
19												
20												
21												
22												
23	8 (12)	10 (14)	0.14 (0.21)	13 (19)								
24	10 (15)	12 (18)	0.17 (0.25)	16 (23)								
25												
26	11 (21)	13 (25)	0.17 (0.34)	17 (34)	23 (32)	28 (39)	0.37 (0.53)	36 (51)				
27	8 (13)	10 (15)	0.13 (0.20)	13 (20)								
28	28 (72)	33 (87)	0.43 (1.13)	44 (115)	42 (63)	52 (77)	0.66 (0.99)	67 (100)				
29	10 (14)	12 (17)	0.15 (0.21)	16 (22)	24 (23)	30 (28)	0.37 (0.35)	39 (37)				
30	14 (23)	17 (28)	0.22 (0.35)	23 (38)								
31	26 (44)	31 (53)	0.38 (0.65)	41 (71)								
Avg	41	49	0.85	66	31	37	0.61	49				
n	23	23	23	23	9	9	9	9	0	0	0	0
SD	33	39	0.73	53	14	17	0.33	22				
Min	8	10	0.13	13	16	19	0.36	25				
Max	140	168	2.90	224	62	76	1.41	99				

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for February, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	42 (54)	50 (66)	0.60 (0.79)	67 (87)								
2	62 (72)	75 (87)	0.88 (1.02)	99 (115)								
3	61 (89)	73 (107)	0.84 (1.23)	97 (142)	84 (166)	104 (205)	1.17 (2.32)	134 (266)				
4	65 (221)	78 (268)	0.88 (3.01)	103 (354)								
5	10 (16)	12 (20)	0.14 (0.22)	16 (26)	10 (11)	12 (13)	0.13 (0.14)	16 (17)				
6	8 (12)	10 (14)	0.11 (0.15)	13 (19)								
7	9 (9)	11 (11)	0.12 (0.11)	15 (14)	21 (17)	26 (21)	0.27 (0.21)	34 (27)				
8	14 (14)	17 (17)	0.18 (0.17)	23 (22)	49 (31)	61 (38)	0.62 (0.38)	79 (49)				
9	55 (138)	67 (168)	0.67 (1.69)	88 (221)	87 (62)	108 (77)	1.06 (0.76)	139 (99)	79 (49)	101 (62)	1.06 (0.65)	127 (78)
10	11 (9)	14 (11)	0.13 (0.11)	18 (15)	102 (154)	127 (192)	1.23 (1.86)	163 (246)	117 (42)	149 (53)	1.53 (0.55)	187 (67)
11	12 (6)	14 (8)	0.14 (0.07)	19 (10)	28 (10)	35 (13)	0.33 (0.12)	45 (16)	120 (139)	152 (177)	1.54 (1.79)	191 (223)
12	17 (11)	21 (13)	0.19 (0.13)	27 (18)	45 (25)	56 (31)	0.51 (0.28)	71 (40)	35 (13)	45 (16)	0.44 (0.16)	56 (21)
13	26 (21)	32 (26)	0.29 (0.24)	42 (34)	82 (51)	103 (63)	0.93 (0.57)	132 (81)				
14	36 (35)	43 (43)	0.39 (0.39)	57 (56)	115 (104)	143 (130)	1.27 (1.15)	184 (167)				
15	39 (50)	48 (61)	0.42 (0.54)	63 (80)								
16	69 (236)	84 (288)	0.73 (2.49)	111 (378)	224 (209)	280 (261)	2.38 (2.22)	359 (335)				
17	9 (18)	11 (22)	0.09 (0.19)	14 (29)	210 (372)	261 (463)	2.18 (3.87)	335 (594)				
18	15 (14)	19 (17)	0.16 (0.14)	25 (23)	29 (17)	36 (22)	0.29 (0.18)	46 (28)				
19	22 (11)	27 (14)	0.22 (0.11)	36 (18)	31 (14)	38 (17)	0.30 (0.13)	49 (22)	33 (10)	42 (13)	0.35 (0.11)	52 (17)
20												
21												
22												
23	61 (146)	74 (178)	0.56 (1.34)	97 (233)	103 (89)	129 (111)	0.96 (0.82)	165 (143)				
24	24 (30)	29 (37)	0.22 (0.27)	39 (48)	125 (417)	156 (521)	1.14 (3.79)	200 (666)	102 (98)	130 (125)	1.00 (0.97)	163 (156)
25	23 (22)	28 (27)	0.21 (0.20)	37 (36)	30 (25)	37 (31)	0.26 (0.22)	47 (39)	119 (202)	152 (260)	1.15 (1.97)	190 (324)
26	34 (23)	41 (28)	0.29 (0.20)	54 (36)	37 (19)	46 (24)	0.32 (0.17)	59 (31)	38 (22)	48 (28)	0.36 (0.21)	60 (34)
27												
28	120 (59)	147 (72)	1.01 (0.49)	192 (95)	116 (59)	145 (74)	0.98 (0.50)	185 (95)	77 (46)	99 (59)	0.70 (0.42)	123 (74)
Avg	35	43	0.39	56	80	100	0.86	129	80	102	0.91	128
n	24	24	24	24	19	19	19	19	9	9	9	9
SD	27	33	0.29	43	59	74	0.62	94	35	45	0.44	56
Min	8	10	0.09	13	10	12	0.13	16	33	42	0.35	52
Max	120	147	1.01	192	224	280	2.38	359	120	152	1.54	191

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for March, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	127 (144)	155 (176)	1.05 (1.19)	203 (231)	165 (125)	206 (157)	1.37 (1.04)	263 (201)	96 (116)	123 (149)	0.86 (1.05)	153 (186)
2	150 (179)	183 (219)	1.21 (1.45)	240 (287)	236 (154)	295 (193)	1.94 (1.26)	378 (246)				
3	152 (196)	186 (240)	1.21 (1.57)	242 (314)	348 (778)	436 (975)	2.81 (6.29)	557 (1250)	195 (225)	251 (289)	1.70 (1.96)	312 (360)
4	143 (159)	175 (195)	1.12 (1.25)	229 (254)	87 (76)	109 (95)	0.69 (0.60)	140 (121)	210 (225)	270 (289)	1.80 (1.93)	336 (360)
5	177 (365)	217 (446)	1.37 (2.82)	283 (584)	55 (31)	69 (39)	0.43 (0.25)	88 (50)	235 (442)	303 (568)	1.99 (3.74)	376 (707)
6	36 (20)	44 (24)	0.27 (0.15)	57 (31)	77 (25)	96 (31)	0.59 (0.19)	122 (40)	78 (34)	100 (43)	0.65 (0.28)	125 (54)
7	37 (11)	46 (14)	0.28 (0.08)	60 (18)	142 (40)	179 (50)	1.09 (0.30)	228 (64)	64 (14)	82 (18)	0.52 (0.11)	102 (22)
8												
9	94 (26)	115 (32)	0.68 (0.19)	150 (42)	349 (84)	440 (106)	2.59 (0.62)	558 (135)	171 (37)	221 (47)	1.36 (0.29)	274 (58)
10	146 (56)	179 (68)	1.05 (0.40)	234 (89)	305 (391)	385 (493)	2.25 (2.88)	488 (625)	252 (94)	324 (121)	1.97 (0.73)	403 (150)
11	194 (50)	238 (61)	1.38 (0.35)	311 (80)	85 (21)	107 (27)	0.61 (0.15)	135 (34)	413 (99)	532 (128)	3.19 (0.76)	661 (159)
12	393 (388)	481 (475)	2.75 (2.71)	629 (620)	155 (56)	195 (70)	1.11 (0.40)	248 (89)	303 (263)	391 (340)	2.32 (2.02)	485 (421)
13	54 (45)	66 (55)	0.37 (0.31)	86 (72)	219 (147)	277 (186)	1.55 (1.04)	351 (236)	80 (76)	103 (98)	0.60 (0.57)	128 (121)
14	97 (62)	118 (75)	0.66 (0.42)	155 (99)	286 (179)	361 (226)	2.00 (1.25)	458 (287)	166 (139)	215 (179)	1.24 (1.03)	266 (222)
15	154 (79)	189 (97)	1.04 (0.53)	247 (126)	387 (163)	488 (206)	2.67 (1.13)	619 (261)	300 (127)	388 (164)	2.20 (0.93)	480 (203)
16	206 (49)	252 (61)	1.37 (0.33)	329 (79)	489 (138)	618 (175)	3.35 (0.95)	783 (221)	476 (179)	615 (232)	3.45 (1.29)	761 (287)
17	251 (59)	308 (72)	1.66 (0.39)	402 (94)	393 (556)	497 (702)	2.67 (3.77)	629 (890)	547 (183)	707 (237)	3.92 (1.31)	875 (293)
18	372 (85)	456 (104)	2.43 (0.55)	595 (136)	103 (28)	131 (36)	0.69 (0.19)	166 (45)	610 (180)	789 (233)	4.32 (1.28)	976 (288)
19	374 (512)	459 (627)	2.42 (3.31)	599 (819)	138 (34)	174 (43)	0.91 (0.23)	221 (54)	469 (484)	607 (626)	3.29 (3.40)	751 (774)
20	45 (10)	55 (13)	0.29 (0.07)	72 (17)	212 (60)	268 (76)	1.40 (0.39)	340 (96)	106 (48)	138 (62)	0.74 (0.33)	170 (77)
21	73 (21)	89 (26)	0.46 (0.13)	116 (33)	311 (94)	394 (119)	2.03 (0.61)	498 (151)	184 (71)	239 (92)	1.26 (0.49)	295 (114)
22												
23	96 (50)	117 (62)	0.60 (0.31)	153 (81)	377 (108)	476 (137)	2.41 (0.70)	603 (173)	272 (86)	353 (112)	1.83 (0.58)	436 (138)
24	128 (55)	157 (68)	0.79 (0.34)	205 (88)	314 (443)	398 (560)	2.00 (2.81)	503 (708)	308 (108)	399 (140)	2.05 (0.72)	493 (173)
25	209 (65)	257 (80)	1.28 (0.40)	335 (104)	91 (34)	115 (42)	0.57 (0.21)	145 (54)	413 (98)	535 (126)	2.73 (0.65)	661 (156)
26	223 (248)	275 (305)	1.36 (1.51)	358 (397)	133 (20)	169 (25)	0.83 (0.12)	213 (32)	345 (279)	447 (362)	2.26 (1.83)	552 (447)
27	63 (17)	78 (21)	0.38 (0.10)	101 (28)	203 (43)	257 (54)	1.26 (0.26)	325 (68)	131 (29)	170 (38)	0.85 (0.19)	210 (47)
28	111 (28)	137 (34)	0.67 (0.16)	178 (44)	276 (57)	350 (73)	1.70 (0.35)	442 (92)	178 (32)	231 (41)	1.15 (0.20)	285 (51)
29	173 (64)	214 (79)	1.03 (0.38)	277 (102)	392 (74)	497 (94)	2.40 (0.45)	626 (118)	224 (59)	291 (76)	1.44 (0.38)	359 (94)
30	292 (50)	361 (62)	1.73 (0.30)	468 (81)	488 (104)	620 (132)	2.96 (0.63)	780 (167)	341 (59)	443 (76)	2.16 (0.37)	545 (94)
31	355 (82)	438 (101)	2.09 (0.48)	568 (130)	409 (276)	520 (351)	2.47 (1.67)	654 (442)	392 (70)	509 (91)	2.47 (0.44)	628 (112)
Avg	170	208	1.14	272	249	315	1.70	399	270	349	1.94	432
n	29	29	29	29	29	29	29	29	28	28	28	28
SD	103	126	0.66	164	128	162	0.84	205	145	187	1.00	231
Min	36	44	0.27	57	55	69	0.43	88	64	82	0.52	102
Max	393	481	2.75	629	489	620	3.35	783	610	789	4.32	976

US EPA ARCHIVE DOCUMENT

Table F8. Daily mean (SD) of H2S emissions at Site NC3B for April, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	466 (87)	575 (107)	2.73 (0.51)	746 (139)	174 (29)	221 (37)	1.04 (0.17)	278 (47)	422 (62)	548 (80)	2.64 (0.38)	675 (99)
2	389 (314)	480 (388)	2.27 (1.83)	623 (503)	263 (38)	334 (49)	1.56 (0.23)	420 (61)	336 (278)	436 (362)	2.09 (1.73)	537 (445)
3	104 (35)	128 (43)	0.60 (0.20)	166 (56)	321 (43)	408 (55)	1.90 (0.26)	514 (69)	103 (26)	134 (34)	0.64 (0.16)	165 (42)
4	169 (44)	209 (54)	0.97 (0.25)	270 (70)	365 (56)	464 (72)	2.14 (0.33)	583 (90)	202 (40)	262 (52)	1.24 (0.25)	323 (64)
5	249 (90)	307 (111)	1.43 (0.51)	398 (144)	398 (67)	507 (85)	2.32 (0.39)	637 (107)	207 (75)	269 (98)	1.26 (0.46)	330 (120)
6	436 (115)	538 (142)	2.48 (0.65)	698 (184)	441 (61)	639 (130)	2.96 (0.62)	705 (97)	283 (65)	369 (85)	1.72 (0.39)	453 (104)
7	501 (115)	618 (142)	2.84 (0.65)	801 (184)	358 (239)	596 (397)	2.79 (1.86)	573 (382)	417 (89)	543 (115)	2.52 (0.53)	667 (142)
8	505 (91)	624 (112)	2.85 (0.52)	809 (145)	155 (46)	258 (77)	1.20 (0.36)	247 (74)	438 (111)	570 (145)	2.63 (0.67)	701 (178)
9	435 (478)	537 (590)	2.45 (2.68)	696 (764)	194 (35)	323 (58)	1.49 (0.27)	310 (56)	323 (303)	420 (395)	1.93 (1.81)	516 (485)
10	179 (53)	222 (65)	1.00 (0.30)	287 (85)	253 (34)	422 (56)	1.94 (0.26)	406 (54)	38 (9)	49 (12)	0.22 (0.05)	60 (15)
11	310 (84)	382 (103)	1.72 (0.47)	496 (134)	316 (50)	526 (83)	2.41 (0.38)	505 (79)	65 (27)	84 (35)	0.38 (0.16)	103 (43)
12	342 (53)	423 (65)	1.90 (0.29)	548 (85)	362 (105)	604 (175)	2.75 (0.80)	579 (168)	122 (34)	159 (44)	0.72 (0.20)	195 (54)
13	318 (49)	393 (61)	1.76 (0.27)	509 (78)	413 (84)	690 (140)	3.12 (0.63)	661 (134)	179 (31)	234 (40)	1.05 (0.18)	287 (49)
14	308 (64)	380 (79)	1.69 (0.35)	492 (102)	388 (368)	647 (615)	2.92 (2.77)	620 (589)	234 (44)	304 (58)	1.36 (0.26)	374 (71)
15	543 (90)	671 (111)	2.97 (0.49)	869 (144)	217 (45)	362 (75)	1.62 (0.34)	347 (72)	301 (33)	392 (43)	1.74 (0.19)	481 (53)
16	534 (733)	659 (905)	2.90 (3.99)	854 (1170)	280 (58)	469 (97)	2.09 (0.43)	449 (92)	275 (336)	358 (438)	1.59 (1.94)	439 (538)
17	124 (37)	175 (53)	0.78 (0.24)	199 (59)	310 (115)	520 (193)	2.31 (0.86)	497 (185)	111 (28)	144 (36)	0.64 (0.16)	177 (44)
18	154 (67)	247 (108)	1.10 (0.48)	247 (108)	368 (94)	616 (158)	2.72 (0.70)	588 (151)	200 (56)	260 (73)	1.14 (0.32)	320 (90)
19	195 (64)	312 (103)	1.38 (0.46)	312 (103)	435 (102)	729 (171)	3.21 (0.76)	696 (163)	333 (91)	433 (118)	1.89 (0.51)	533 (145)
20	259 (72)	414 (115)	1.83 (0.51)	414 (115)	502 (165)	842 (278)	3.69 (1.22)	803 (265)	488 (124)	635 (161)	2.76 (0.70)	781 (198)
21	303 (92)	527 (184)	2.34 (0.82)	485 (147)	344 (293)	600 (499)	2.63 (2.19)	550 (468)	676 (115)	1000 (228)	4.34 (0.98)	1080 (184)
22	423 (71)	795 (134)	3.55 (0.59)	676 (114)	98 (33)	196 (67)	0.86 (0.29)	157 (54)	703 (139)	1210 (239)	5.18 (1.03)	1120 (223)
23	292 (227)	550 (428)	2.45 (1.91)	468 (364)	122 (43)	242 (86)	1.06 (0.38)	195 (69)	524 (440)	992 (770)	4.31 (3.33)	838 (704)
24												
25	81 (43)	152 (82)	0.67 (0.36)	129 (69)	164 (62)	327 (123)	1.42 (0.54)	263 (99)	166 (51)	418 (128)	1.85 (0.56)	266 (81)
26	126 (40)	238 (76)	1.05 (0.33)	202 (64)	252 (59)	502 (118)	2.18 (0.51)	404 (95)	241 (62)	607 (156)	2.67 (0.69)	386 (99)
27	163 (62)	308 (117)	1.35 (0.51)	261 (99)	316 (121)	630 (242)	2.72 (1.04)	506 (194)	311 (84)	783 (210)	3.43 (0.92)	498 (134)
28	233 (81)	439 (152)	1.92 (0.66)	372 (129)	348 (243)	693 (484)	2.98 (2.09)	556 (389)	401 (87)	1010 (219)	4.41 (0.96)	642 (139)
29	299 (95)	565 (180)	2.46 (0.78)	478 (152)	55 (15)	109 (30)	0.47 (0.13)	87 (24)	453 (94)	1140 (236)	4.97 (1.03)	725 (150)
30	347 (327)	657 (618)	2.84 (2.68)	556 (523)	53 (11)	106 (23)	0.46 (0.10)	85 (18)	378 (243)	953 (613)	4.13 (2.66)	605 (389)
Avg	303	432	1.94	485	285	468	2.10	456	308	508	2.26	493
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	135	177	0.79	216	117	190	0.84	187	164	326	1.40	262
Min	81	128	0.60	129	53	106	0.46	85	38	49	0.22	60
Max	543	795	3.55	869	502	842	3.69	803	703	1210	5.18	1120

US EPA ARCHIVE DOCUMENT

Table F8. Daily mean (SD) of H2S emissions at Site NC3B for May, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	91 (15)	172 (28)	0.74 (0.12)	145 (24)	74 (18)	148 (35)	0.63 (0.15)	118 (28)	162 (31)	409 (79)	1.77 (0.34)	259 (50)
2	110 (22)	208 (42)	0.89 (0.18)	176 (35)	101 (16)	202 (31)	0.86 (0.13)	161 (25)	221 (26)	559 (66)	2.41 (0.29)	354 (42)
3												
4	204 (73)	387 (139)	1.64 (0.59)	327 (117)	183 (30)	367 (60)	1.55 (0.25)	293 (48)	302 (42)	763 (106)	3.27 (0.45)	484 (67)
5	297 (82)	563 (156)	2.37 (0.66)	476 (132)	249 (271)	499 (543)	2.10 (2.28)	398 (434)	391 (139)	988 (350)	4.21 (1.50)	626 (222)
6	297 (138)	2900 (21300)	58.50 (533.00)	475 (221)	48 (18)	95 (36)	0.40 (0.15)	76 (29)	385 (67)	973 (170)	4.14 (0.72)	617 (108)
7	262 (249)			420 (398)	54 (12)	108 (24)	0.45 (0.10)	86 (19)	380 (313)	960 (791)	4.07 (3.35)	608 (501)
8	42 (38)			67 (61)	65 (20)	130 (39)	0.54 (0.16)	104 (31)	79 (14)	199 (36)	0.84 (0.15)	126 (23)
9	17 (9)			27 (14)	91 (20)	182 (39)	0.75 (0.16)	145 (31)	106 (14)	267 (34)	1.12 (0.14)	169 (22)
10	21 (2)			33 (3)	163 (25)	327 (50)	1.34 (0.20)	261 (40)	168 (30)	424 (75)	1.78 (0.31)	268 (48)
11	9 (25)			14 (40)	171 (26)	342 (52)	1.40 (0.21)	273 (42)	224 (61)	565 (155)	2.36 (0.65)	358 (98)
12	39 (90)			62 (143)	172 (42)	344 (84)	1.40 (0.34)	275 (67)	212 (35)	534 (88)	2.22 (0.37)	338 (56)
13	1 (7)			1 (11)	120 (63)			193 (101)	211 (32)	533 (82)	2.21 (0.34)	338 (52)
14	4 (3)			7 (4)	84 (168)			134 (269)	205 (275)	517 (695)	2.13 (2.86)	327 (440)
15	5 (2)			8 (3)	1 (4)			2 (7)	50 (21)	127 (52)	0.52 (0.21)	80 (33)
16												
17					1 (6)			1 (10)				
18					-7 (10)			-11 (16)	122 (36)	1120 (1900)	16.90 (41.70)	195 (58)
19					3 (4)			5 (6)				
20					6 (3)			9 (5)	67 (75)			107 (119)
21					3 (6)			5 (9)	18 (12)			29 (18)
22					5 (6)			9 (10)	19 (13)			31 (20)
23	3 (1)			5 (2)	4 (4)			6 (6)	21 (11)			34 (17)
24	5 (5)			7 (8)								
25												
26	3 (8)	4 (12)	0.09 (0.26)	4 (13)								
27	4 (7)	6 (10)	0.13 (0.22)	7 (12)								
28	54 (127)	76 (177)	1.59 (3.72)	87 (203)								
29	11 (18)	16 (26)	0.33 (0.52)	18 (29)								
30												
31	4 (9)	6 (13)	0.11 (0.26)	6 (15)	0 (4)	1 (12)	0.08 (0.41)	0 (7)				
Avg	71	433	6.64	113	72	229	0.96	116	176	596	3.33	282
n	21	10	10	21	22	12	12	22	19	15	15	19
SD	100	840	17.30	160	74	139	0.57	119	120	294	3.79	192
Min	1	4	0.09	1	-7	1	0.08	-11	18	127	0.52	29
Max	297	2900	58.50	476	249	499	2.10	398	391	1120	16.90	626

US EPA ARCHIVE DOCUMENT

Table F8. Daily mean (SD) of H2S emissions at Site NC3B for June, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	13 (11)	18 (16)	0.34 (0.30)	20 (18)								
2	39 (27)	55 (37)	1.05 (0.72)	63 (42)	84 (74)	209 (184)	5.60 (4.96)	134 (118)				
3	43 (11)	61 (16)	1.15 (0.30)	69 (18)	10 (5)	24 (12)	0.64 (0.31)	16 (8)				
4	57 (13)	82 (18)	1.51 (0.33)	92 (20)	12 (6)	18 (7)	0.46 (0.18)	19 (9)				
5	78 (16)	111 (23)	2.01 (0.42)	124 (26)	15 (10)	18 (12)	0.45 (0.30)	23 (15)	12 (7)	15 (8)	0.41 (0.22)	19 (11)
6	111 (31)	159 (45)	2.86 (0.80)	178 (50)	15 (9)	19 (11)	0.45 (0.28)	24 (15)				
7	121 (30)	174 (42)	3.07 (0.74)	194 (47)	16 (5)	21 (7)	0.49 (0.16)	26 (8)	6 (5)	7 (6)	0.19 (0.15)	9 (7)
8	127 (35)	182 (50)	3.18 (0.87)	203 (56)	27 (10)	34 (13)	0.78 (0.29)	43 (16)	8 (4)	10 (5)	0.25 (0.13)	13 (7)
9	131 (27)	189 (38)	3.25 (0.66)	210 (43)	33 (17)	42 (21)	0.96 (0.48)	53 (27)	20 (14)	24 (18)	0.59 (0.43)	31 (23)
10	131 (35)	189 (50)	3.20 (0.86)	210 (56)	37 (11)	47 (14)	1.04 (0.32)	59 (18)	34 (11)	41 (14)	0.99 (0.33)	54 (18)
11	115 (51)	167 (74)	2.78 (1.23)	185 (81)	36 (17)	47 (21)	1.01 (0.46)	58 (27)	48 (41)	59 (50)	1.38 (1.17)	76 (65)
12	53 (25)	76 (36)	1.26 (0.59)	84 (40)	35 (9)	45 (11)	0.97 (0.24)	57 (14)	55 (72)	68 (89)	1.57 (2.05)	88 (115)
13	34 (10)	50 (15)	0.80 (0.23)	55 (16)	44 (14)	56 (18)	1.18 (0.38)	70 (23)	11 (6)	13 (8)	0.29 (0.18)	17 (10)
14	54 (13)	79 (18)	1.25 (0.29)	87 (20)	66 (13)	85 (17)	1.77 (0.34)	106 (21)	17 (11)	21 (13)	0.46 (0.29)	27 (17)
15	73 (24)	107 (34)	1.67 (0.53)	117 (38)	93 (39)	120 (50)	2.46 (1.01)	149 (62)	33 (25)	40 (31)	0.87 (0.66)	52 (39)
16	109 (15)	159 (22)	2.45 (0.34)	174 (25)	89 (86)	115 (111)	2.32 (2.23)	143 (138)	39 (15)	48 (19)	1.01 (0.40)	62 (24)
17	95 (16)	139 (24)	2.11 (0.36)	152 (26)	65 (76)	83 (98)	1.65 (1.94)	103 (122)	47 (14)	59 (17)	1.22 (0.36)	76 (22)
18	101 (49)	148 (72)	2.21 (1.08)	161 (79)	15 (9)	19 (12)	0.38 (0.23)	24 (15)	79 (85)	98 (105)	2.01 (2.15)	127 (136)
19	101 (73)	148 (107)	2.17 (1.57)	162 (117)	24 (14)	31 (18)	0.60 (0.34)	39 (22)	30 (30)	38 (38)	0.75 (0.76)	48 (48)
20	26 (9)	37 (14)	0.54 (0.19)	41 (15)	39 (17)	51 (21)	0.96 (0.40)	63 (26)	19 (9)	24 (11)	0.47 (0.21)	31 (14)
21	33 (8)	49 (12)	0.69 (0.16)	53 (13)	37 (12)	48 (16)	0.89 (0.29)	59 (19)	20 (7)	24 (9)	0.47 (0.18)	31 (12)
22	79 (71)	116 (104)	1.61 (1.45)	126 (113)	59 (33)	77 (43)	1.39 (0.77)	94 (52)	32 (15)	39 (19)	0.75 (0.36)	51 (25)
23	19 (9)	28 (13)	0.38 (0.18)	30 (14)	61 (65)	80 (85)	1.42 (1.53)	98 (105)	41 (26)	51 (32)	0.95 (0.60)	66 (41)
24	33 (11)	48 (17)	0.65 (0.22)	53 (18)	102 (89)	133 (116)	2.33 (2.04)	163 (142)	23 (11)	29 (13)	0.53 (0.25)	37 (17)
25	119 (137)	175 (202)	2.30 (2.67)	190 (220)	19 (11)	25 (14)	0.44 (0.24)	31 (17)	83 (98)	103 (121)	1.86 (2.19)	133 (156)
26					35 (22)	46 (29)	0.78 (0.48)	56 (35)	16 (8)	20 (10)	0.36 (0.17)	26 (13)
27					44 (16)	58 (21)	0.96 (0.35)	70 (26)				
28	23 (8)	34 (12)	0.43 (0.15)	37 (13)	61 (16)	80 (21)	1.31 (0.34)	98 (25)	28 (10)	35 (12)	0.60 (0.20)	45 (15)
29	52 (54)	77 (79)	0.94 (0.97)	84 (86)	75 (22)	98 (29)	1.58 (0.46)	120 (35)	45 (13)	56 (16)	0.93 (0.26)	72 (20)
30												
Avg	73	106	1.70	117	45	62	1.26	71	32	40	0.82	52
n	27	27	27	27	28	28	28	28	23	23	23	23
SD	39	56	0.94	62	26	43	1.02	42	20	25	0.49	32
Min	13	18	0.34	20	10	18	0.38	16	6	7	0.19	9
Max	131	189	3.25	210	102	209	5.60	163	83	103	2.01	133

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for July, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	34 (11)	50 (16)	0.59 (0.19)	55 (18)	36 (48)	48 (63)	0.74 (0.98)	58 (77)	55 (14)	69 (18)	1.10 (0.28)	88 (23)
2					13 (11)	17 (14)	0.25 (0.21)	20 (17)	123 (114)	154 (142)	2.41 (2.22)	197 (182)
3	37 (54)	55 (80)	0.62 (0.91)	59 (87)	33 (13)	44 (18)	0.65 (0.26)	53 (21)	20 (9)	25 (11)	0.39 (0.17)	32 (15)
4	21 (9)	31 (14)	0.34 (0.15)	34 (15)	53 (21)	71 (27)	1.03 (0.40)	85 (33)	25 (11)	32 (14)	0.48 (0.21)	41 (18)
5	35 (12)	52 (17)	0.56 (0.18)	56 (19)	71 (23)	95 (31)	1.35 (0.44)	114 (37)	29 (10)	36 (13)	0.53 (0.18)	46 (16)
6	80 (78)	118 (115)	1.25 (1.23)	127 (125)	95 (17)	126 (23)	1.76 (0.32)	152 (28)	57 (8)	71 (10)	1.03 (0.14)	91 (13)
7	77 (66)	113 (98)	1.18 (1.02)	123 (106)	175 (195)	233 (260)	3.19 (3.56)	280 (312)	72 (14)	91 (18)	1.28 (0.26)	116 (23)
8	26 (10)	39 (15)	0.39 (0.15)	42 (17)	44 (50)	58 (66)	0.78 (0.89)	70 (80)	88 (26)	111 (33)	1.52 (0.46)	140 (42)
9	110 (111)	162 (164)	1.62 (1.63)	175 (177)	26 (13)	35 (17)	0.46 (0.22)	42 (20)	229 (395)	289 (498)	3.89 (6.73)	366 (633)
10	76 (73)	112 (107)	1.10 (1.05)	121 (116)	40 (18)	53 (24)	0.68 (0.31)	63 (29)	22 (15)	28 (19)	0.36 (0.24)	35 (23)
11	44 (49)	65 (73)	0.63 (0.70)	70 (79)	52 (17)	69 (23)	0.87 (0.29)	83 (28)	23 (9)	29 (11)	0.38 (0.15)	37 (14)
12	25 (36)	37 (53)	0.35 (0.50)	40 (58)	68 (18)	90 (24)	1.11 (0.29)	108 (29)	38 (11)	48 (14)	0.60 (0.17)	61 (18)
13	37 (44)	55 (65)	0.51 (0.60)	60 (70)	87 (18)	116 (24)	1.40 (0.29)	139 (29)	69 (23)	87 (29)	1.07 (0.36)	110 (37)
14	18 (19)	27 (28)	0.24 (0.25)	29 (30)	137 (141)	182 (188)	2.16 (2.23)	219 (226)	79 (91)	99 (115)	1.19 (1.39)	126 (146)
15	33 (9)	48 (13)	0.43 (0.11)	52 (14)	70 (76)	93 (101)	1.08 (1.18)	112 (122)	36 (15)	46 (19)	0.54 (0.22)	58 (24)
16	98 (100)	145 (148)	1.26 (1.29)	157 (160)	18 (16)	24 (21)	0.27 (0.24)	28 (26)	88 (91)	111 (115)	1.28 (1.32)	141 (146)
17	26 (31)	39 (46)	0.33 (0.40)	42 (50)	35 (12)	47 (16)	0.52 (0.18)	56 (19)	22 (8)	28 (11)	0.32 (0.12)	36 (14)
18	22 (10)	33 (14)	0.28 (0.12)	36 (15)	60 (18)	80 (24)	0.87 (0.26)	96 (29)	42 (10)	52 (12)	0.57 (0.13)	66 (15)
19	32 (13)	47 (18)	0.39 (0.15)	51 (20)	80 (28)	107 (37)	1.14 (0.39)	129 (44)	54 (16)	69 (20)	0.74 (0.21)	87 (25)
20	63 (15)	93 (22)	0.75 (0.18)	101 (24)	104 (22)	138 (29)	1.44 (0.30)	166 (35)	78 (16)	98 (20)	1.03 (0.20)	125 (25)
21	79 (25)	117 (36)	0.93 (0.29)	127 (39)	118 (136)	158 (181)	1.61 (1.84)	190 (218)	89 (35)	112 (45)	1.15 (0.46)	142 (57)
22	102 (27)	151 (39)	1.18 (0.31)	163 (42)	134 (118)	179 (157)	1.79 (1.57)	215 (188)	119 (44)	150 (55)	1.50 (0.56)	190 (70)
23	155 (373)	230 (551)	1.76 (4.23)	249 (597)	11 (15)	14 (20)	0.14 (0.19)	17 (23)	117 (148)	148 (187)	1.45 (1.84)	187 (236)
24	66 (15)	97 (22)	0.73 (0.17)	105 (24)	41 (20)	54 (27)	0.52 (0.26)	65 (32)	109 (123)	138 (155)	1.33 (1.49)	175 (196)
25	73 (17)	108 (25)	0.80 (0.18)	117 (27)	77 (23)	103 (31)	0.97 (0.29)	123 (38)	23 (11)	30 (13)	0.28 (0.12)	37 (17)
26	101 (22)	149 (32)	1.09 (0.23)	161 (35)	103 (14)	138 (18)	1.27 (0.17)	165 (22)	44 (14)	56 (18)	0.51 (0.17)	71 (23)
27	149 (41)	220 (61)	1.58 (0.43)	238 (66)	144 (28)	192 (38)	1.74 (0.34)	230 (46)	88 (90)	112 (114)	1.01 (1.03)	141 (144)
28	187 (49)	276 (73)	1.95 (0.51)	299 (79)	123 (84)	164 (112)	1.46 (1.00)	196 (134)	53 (47)	68 (60)	0.60 (0.53)	85 (75)
29	218 (46)	322 (68)	2.24 (0.47)	348 (74)	133 (111)	178 (149)	1.55 (1.30)	213 (178)	28 (13)	36 (16)	0.31 (0.14)	45 (20)
30	213 (104)	315 (153)	2.16 (1.05)	341 (166)	39 (14)	53 (19)	0.45 (0.16)	63 (23)	84 (78)	106 (99)	0.90 (0.83)	134 (124)
31	62 (53)	92 (78)	0.62 (0.53)	100 (85)	54 (15)	72 (20)	0.60 (0.17)	86 (24)	25 (20)	32 (26)	0.26 (0.21)	40 (33)
Avg	77	113	0.93	123	73	98	1.09	117	65	83	0.97	105
n	30	30	30	30	31	31	31	31	31	31	31	31
SD	56	83	0.57	90	43	57	0.64	68	44	55	0.72	70
Min	18	27	0.24	29	11	14	0.14	17	20	25	0.26	32
Max	218	322	2.24	348	175	233	3.19	280	229	289	3.89	366

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for August, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	32 (10)	48 (15)	0.32 (0.10)	52 (17)	92 (27)	123 (37)	1.01 (0.30)	147 (44)	44 (12)	56 (16)	0.45 (0.13)	71 (20)
2	58 (43)	85 (63)	0.56 (0.42)	92 (68)	136 (20)	182 (27)	1.47 (0.21)	217 (32)	65 (19)	83 (24)	0.66 (0.19)	105 (31)
3	38 (26)	56 (39)	0.36 (0.25)	61 (42)	145 (26)	194 (35)	1.54 (0.28)	231 (42)	70 (29)	89 (37)	0.70 (0.29)	112 (47)
4	51 (46)	75 (68)	0.48 (0.43)	81 (73)	189 (187)	254 (251)	1.98 (1.96)	302 (299)	87 (18)	111 (23)	0.85 (0.18)	139 (29)
5	31 (10)	46 (15)	0.29 (0.09)	50 (16)	75 (64)	101 (87)	0.78 (0.66)	120 (103)	122 (51)	156 (65)	1.17 (0.48)	196 (81)
6	99 (109)	147 (162)	0.91 (1.00)	159 (175)	30 (14)	41 (19)	0.31 (0.14)	48 (23)	222 (327)	283 (416)	2.09 (3.09)	355 (523)
7	73 (69)	108 (102)	0.66 (0.62)	116 (110)	44 (15)	59 (21)	0.43 (0.15)	70 (25)	28 (11)	36 (14)	0.26 (0.10)	45 (17)
8												
9	53 (53)	78 (78)	0.47 (0.46)	85 (84)	86 (11)	116 (15)	0.83 (0.11)	137 (18)	61 (20)	78 (25)	0.55 (0.18)	98 (32)
10	41 (45)	61 (66)	0.36 (0.39)	66 (71)	102 (23)	137 (31)	0.97 (0.22)	163 (37)	75 (24)	96 (31)	0.66 (0.21)	120 (39)
11	48 (49)	72 (72)	0.42 (0.42)	77 (78)	206 (188)	278 (254)	1.93 (1.77)	329 (301)	136 (29)	173 (36)	1.18 (0.25)	217 (46)
12	32 (27)	48 (40)	0.28 (0.23)	52 (44)	45 (53)	61 (72)	0.42 (0.49)	73 (85)	178 (44)	227 (56)	1.52 (0.38)	285 (70)
13					31 (15)	42 (21)	0.28 (0.14)	50 (24)	141 (64)	179 (81)	1.18 (0.54)	225 (102)
14	54 (49)	80 (73)	0.45 (0.41)	86 (79)	52 (27)	70 (37)	0.47 (0.25)	83 (44)	66 (20)	84 (25)	0.54 (0.16)	105 (32)
15	64 (59)	96 (87)	0.53 (0.49)	103 (94)	63 (18)	86 (24)	0.56 (0.16)	101 (28)	104 (29)	133 (37)	0.85 (0.24)	167 (46)
16	67 (68)	100 (101)	0.55 (0.56)	108 (109)	86 (16)	116 (22)	0.75 (0.14)	137 (26)	133 (41)	170 (52)	1.07 (0.33)	213 (65)
17	45 (45)	67 (67)	0.37 (0.37)	72 (72)	104 (18)	142 (25)	0.90 (0.16)	167 (29)	140 (56)	179 (72)	1.11 (0.45)	224 (90)
18	24 (13)	35 (20)	0.19 (0.11)	38 (21)	194 (112)	263 (152)	1.65 (0.96)	310 (179)	168 (45)	214 (57)	1.32 (0.35)	268 (72)
19	33 (15)	49 (22)	0.26 (0.12)	53 (24)	43 (27)	58 (37)	0.36 (0.23)	68 (44)	193 (50)	247 (64)	1.50 (0.39)	309 (81)
20	90 (99)	134 (147)	0.72 (0.79)	144 (158)	40 (13)	55 (18)	0.34 (0.11)	64 (21)	266 (359)	341 (460)	2.04 (2.76)	425 (574)
21	15 (6)	22 (9)	0.12 (0.05)	23 (10)					185 (159)	237 (204)	1.40 (1.21)	296 (255)
22	17 (21)	26 (31)	0.14 (0.16)	28 (33)					54 (83)	69 (107)	0.41 (0.63)	87 (133)
23	9 (27)	13 (40)	0.07 (0.21)	14 (43)					22 (51)	28 (66)	0.16 (0.38)	35 (82)
24	58 (13)	87 (20)	0.45 (0.10)	93 (21)	156 (35)	212 (48)	1.25 (0.28)	249 (56)	63 (60)	81 (76)	0.46 (0.44)	100 (95)
25	72 (19)	107 (29)	0.55 (0.15)	115 (31)	229 (368)	311 (500)	1.81 (2.92)	366 (589)	52 (62)	66 (80)	0.38 (0.45)	83 (99)
26	76 (21)	113 (31)	0.58 (0.16)	121 (33)	54 (73)	74 (99)	0.43 (0.57)	87 (116)	39 (17)	50 (22)	0.28 (0.12)	63 (27)
27	271 (348)	404 (520)	2.06 (2.65)	433 (557)					197 (154)	253 (197)	1.40 (1.09)	316 (246)
28	26 (12)	39 (18)	0.20 (0.09)	42 (19)	105 (23)	144 (32)	0.81 (0.18)	169 (37)	99 (104)	127 (133)	0.70 (0.73)	158 (166)
29	42 (12)	62 (18)	0.31 (0.09)	67 (19)	134 (30)	182 (41)	1.02 (0.23)	214 (48)	80 (75)	103 (96)	0.56 (0.52)	128 (119)
30	60 (19)	90 (29)	0.45 (0.14)	96 (31)	170 (20)	232 (27)	1.28 (0.15)	272 (32)	73 (70)	94 (90)	0.51 (0.49)	117 (113)
31												
Avg	56	84	0.47	90	104	141	0.94	167	109	139	0.90	174
n	28	28	28	28	25	25	25	25	29	29	29	29
SD	47	70	0.36	75	59	79	0.53	94	62	80	0.51	100
Min	9	13	0.07	14	30	41	0.28	48	22	28	0.16	35
Max	271	404	2.06	433	229	311	1.98	366	266	341	2.09	425

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for September, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	115 (29)	173 (44)	0.86 (0.22)	185 (47)	272 (329)	370 (448)	2.02 (2.44)	435 (526)	42 (24)	54 (31)	0.29 (0.16)	68 (38)
2	128 (29)	192 (44)	0.94 (0.22)	205 (47)	35 (73)	47 (100)	0.26 (0.54)	56 (117)	95 (20)	122 (26)	0.64 (0.13)	152 (32)
3	209 (391)	315 (589)	1.54 (2.88)	334 (626)	26 (16)	36 (22)	0.19 (0.12)	42 (26)	162 (164)	208 (211)	1.09 (1.10)	259 (262)
4	16 (10)	23 (15)	0.11 (0.07)	25 (16)	49 (23)	66 (32)	0.35 (0.17)	78 (37)	62 (62)	80 (80)	0.42 (0.42)	100 (100)
5	34 (17)	51 (25)	0.25 (0.12)	54 (27)	80 (25)	109 (35)	0.58 (0.18)	128 (41)	82 (76)	106 (97)	0.54 (0.50)	131 (121)
6	62 (20)	94 (30)	0.45 (0.14)	100 (31)	120 (27)	163 (37)	0.86 (0.20)	192 (43)	89 (79)	115 (101)	0.59 (0.52)	143 (126)
7	82 (25)	124 (38)	0.59 (0.18)	131 (40)	122 (35)	167 (48)	0.87 (0.25)	195 (56)	71 (72)	91 (93)	0.46 (0.47)	113 (115)
8	119 (28)	179 (42)	0.85 (0.20)	190 (45)	151 (33)	207 (45)	1.07 (0.23)	242 (52)	71 (67)	92 (86)	0.46 (0.43)	114 (107)
9	144 (38)	217 (57)	1.03 (0.27)	230 (61)	159 (152)	217 (208)	1.12 (1.07)	254 (243)	48 (68)	62 (87)	0.31 (0.44)	77 (109)
10	292 (642)	442 (971)	2.09 (4.58)	468 (1030)	8 (87)	11 (119)	0.06 (0.61)	13 (139)	66 (77)	85 (100)	0.43 (0.50)	106 (124)
11	26 (14)	42 (25)	0.20 (0.12)	41 (23)	149 (130)	203 (177)	1.03 (0.90)	238 (207)	55 (23)	71 (30)	0.35 (0.15)	89 (37)
12	47 (11)	83 (19)	0.39 (0.09)	75 (17)	71 (68)	97 (93)	0.49 (0.47)	114 (109)	94 (29)	120 (38)	0.59 (0.19)	150 (47)
13	70 (23)	123 (40)	0.58 (0.19)	112 (36)	73 (74)	100 (101)	0.50 (0.51)	117 (118)	129 (28)	165 (36)	0.81 (0.18)	206 (44)
14	81 (30)	143 (53)	0.66 (0.25)	130 (49)	56 (69)	77 (95)	0.38 (0.48)	90 (111)	177 (40)	228 (51)	1.11 (0.25)	283 (64)
15												
16	130 (23)	271 (49)	1.30 (0.23)	207 (37)	63 (83)	86 (113)	0.43 (0.56)	100 (133)	316 (50)	407 (64)	1.97 (0.31)	506 (79)
17	87 (78)	183 (165)	0.87 (0.78)	139 (125)	-51 (44)	-70 (61)	-0.35 (0.30)	-82 (71)	218 (117)	281 (151)	1.35 (0.73)	348 (188)
18	55 (90)	115 (190)	0.55 (0.90)	88 (144)	28 (18)	38 (25)	0.19 (0.12)	45 (29)	63 (70)	81 (90)	0.39 (0.43)	101 (112)
19	27 (11)	57 (22)	0.27 (0.11)	43 (17)	66 (20)	90 (28)	0.44 (0.14)	105 (32)	73 (27)	94 (34)	0.45 (0.16)	117 (43)
20	47 (17)	100 (36)	0.47 (0.17)	76 (27)	128 (37)	175 (51)	0.86 (0.25)	205 (60)	152 (42)	196 (54)	0.93 (0.25)	243 (67)
21	78 (82)	164 (174)	0.77 (0.82)	124 (131)	137 (44)	188 (61)	0.91 (0.30)	219 (71)	231 (56)	327 (93)	1.56 (0.45)	370 (90)
22	62 (68)	132 (143)	0.62 (0.67)	99 (108)	165 (135)	227 (186)	1.10 (0.90)	265 (216)	296 (65)	460 (102)	2.19 (0.49)	474 (105)
23	27 (22)	58 (46)	0.27 (0.22)	44 (35)	53 (66)	72 (90)	0.35 (0.44)	84 (105)	272 (66)	424 (103)	2.01 (0.49)	435 (106)
24	127 (160)	270 (340)	1.26 (1.59)	203 (256)	27 (12)	38 (16)	0.18 (0.08)	44 (19)	284 (403)	443 (628)	2.10 (2.97)	454 (644)
25	115 (109)	245 (232)	1.14 (1.08)	184 (175)	42 (32)	58 (44)	0.28 (0.21)	67 (51)	38 (40)	59 (62)	0.28 (0.29)	61 (63)
26	48 (106)	102 (225)	0.47 (1.04)	77 (169)	81 (68)	111 (93)	0.53 (0.45)	130 (109)	97 (57)	151 (88)	0.71 (0.41)	154 (90)
27	50 (73)	106 (155)	0.49 (0.72)	80 (117)	118 (59)	162 (81)	0.77 (0.38)	189 (94)	134 (38)	210 (60)	0.98 (0.28)	215 (61)
28	59 (66)	127 (141)	0.58 (0.65)	95 (106)	166 (33)	228 (46)	1.08 (0.22)	265 (53)	145 (26)	227 (41)	1.06 (0.19)	232 (42)
29	52 (64)	111 (138)	0.51 (0.63)	83 (103)	231 (62)	317 (86)	1.50 (0.40)	369 (100)	229 (45)	357 (70)	1.66 (0.32)	366 (72)
30	70 (89)	151 (191)	0.69 (0.87)	112 (142)	227 (63)	312 (86)	1.47 (0.41)	363 (100)	240 (54)	375 (84)	1.74 (0.39)	384 (86)
Avg	85	152	0.72	136	98	135	0.67	157	139	196	0.95	222
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	58	90	0.43	93	72	98	0.50	115	85	129	0.60	135
Min	16	23	0.11	25	-51	-70	-0.35	-82	38	54	0.28	61
Max	292	442	2.09	468	272	370	2.02	435	316	460	2.19	506

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for October, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1	44 (76)	96 (164)	0.43 (0.74)	71 (121)	234 (56)	322 (77)	1.51 (0.36)	374 (89)	351 (467)	549 (729)	2.53 (3.36)	562 (747)
2	115 (149)	248 (323)	1.12 (1.46)	183 (238)	231 (51)	318 (71)	1.49 (0.33)	370 (82)	28 (18)	43 (28)	0.20 (0.13)	44 (28)
3	23 (11)	50 (23)	0.23 (0.10)	37 (17)	229 (53)	315 (73)	1.47 (0.34)	366 (84)	49 (17)	77 (27)	0.35 (0.12)	79 (27)
4	45 (14)	97 (30)	0.44 (0.14)	72 (22)	271 (61)	373 (84)	1.73 (0.39)	433 (98)	85 (23)	133 (36)	0.61 (0.16)	137 (37)
5	72 (76)	156 (166)	0.69 (0.74)	115 (122)	249 (54)	343 (75)	1.59 (0.35)	398 (87)	103 (20)	189 (39)	0.86 (0.18)	165 (32)
6	28 (15)	361 (2120)	7.41 (56.00)	44 (24)	277 (357)	382 (491)	1.76 (2.26)	443 (571)	122 (24)	271 (52)	1.24 (0.24)	195 (38)
7					64 (54)	94 (78)	0.43 (0.36)	102 (87)	178 (42)	398 (94)	1.85 (0.44)	286 (67)
8					45 (21)	72 (33)	0.33 (0.15)	72 (33)	246 (561)	550 (1250)	2.55 (5.80)	394 (898)
9					71 (22)	114 (35)	0.52 (0.16)	114 (35)	96 (134)	215 (301)	0.99 (1.39)	154 (215)
10					130 (35)	209 (56)	0.94 (0.25)	208 (56)	31 (20)	69 (46)	0.32 (0.21)	49 (32)
11												
12	23 (56)			37 (90)	164 (47)	311 (89)	1.42 (0.41)	263 (75)	74 (26)	166 (60)	0.75 (0.27)	118 (42)
13	2 (4)			3 (7)	148 (246)	391 (480)	1.91 (2.29)	236 (394)	52 (26)	118 (58)	0.53 (0.26)	83 (41)
14												
15	56 (158)			90 (253)								
16	6 (17)			10 (28)								
17	-2 (3)			-3 (6)								
18	0 (3)			-1 (5)								
19	2 (8)			4 (12)								
20												
21												
22	4 (4)	6 (6)	0.12 (0.11)	7 (6)	19 (14)	26 (21)	0.61 (0.47)	30 (23)				
23	12 (7)	18 (10)	0.33 (0.18)	20 (11)	38 (24)	54 (34)	1.19 (0.75)	60 (38)	-1 (4)			-1 (7)
24	27 (8)	39 (11)	0.72 (0.20)	44 (12)	72 (30)	103 (43)	2.23 (0.93)	115 (49)	1 (2)			2 (3)
25	50 (39)	72 (57)	1.29 (1.01)	80 (63)	83 (60)	119 (86)	2.51 (1.80)	133 (96)	2 (4)			2 (6)
26	36 (51)	53 (74)	0.92 (1.29)	58 (81)	68 (72)	98 (104)	2.02 (2.13)	109 (116)	0 (4)			-1 (6)
27												
28												
29												
30												
31												
Avg	30	109	1.24	48	141	214	1.39	225	89	232	1.06	142
n	18	11	11	18	17	17	17	17	16	12	12	16
SD	29	103	1.98	47	88	129	0.62	141	95	170	0.79	152
Min	-2	6	0.12	-3	19	26	0.33	30	-1	43	0.20	-1
Max	115	361	7.41	183	277	391	2.51	443	351	550	2.55	562

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for November, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1												
2												
3												
4	24 (30)	35 (43)	0.53 (0.66)	39 (48)	27 (50)	38 (71)	0.66 (1.24)	43 (80)				
5	35 (44)	50 (63)	0.75 (0.94)	56 (70)	15 (13)	22 (19)	0.36 (0.33)	24 (22)				
6					29 (30)	41 (43)	0.68 (0.72)	46 (48)				
7					44 (40)	63 (58)	1.03 (0.94)	70 (64)				
8					71 (55)	101 (79)	1.62 (1.26)	113 (88)				
9					93 (57)	133 (81)	2.09 (1.27)	149 (90)				
10	10 (6)	15 (8)	0.21 (0.11)	17 (9)	110 (120)	158 (172)	2.44 (2.65)	177 (192)	48 (14)	64 (19)	0.98 (0.29)	76 (23)
11	6 (9)	9 (13)	0.12 (0.17)	10 (14)	34 (11)	49 (16)	0.74 (0.24)	55 (18)	58 (50)	78 (67)	1.17 (1.00)	93 (80)
12	9 (17)	13 (24)	0.17 (0.32)	14 (27)	30 (20)	44 (29)	0.64 (0.42)	49 (32)				
13					37 (35)	53 (50)	0.77 (0.72)	59 (56)				
14					52 (36)	75 (51)	1.06 (0.72)	84 (57)				
15					60 (42)	86 (60)	1.19 (0.83)	96 (67)				
16					71 (50)	102 (71)	1.38 (0.97)	114 (80)				
17					46 (59)	67 (85)	0.89 (1.14)	74 (95)				
18	13 (9)	19 (13)	0.22 (0.15)	21 (14)	21 (14)	30 (20)	0.39 (0.26)	33 (22)	160 (89)	216 (120)	2.88 (1.60)	256 (142)
19	40 (28)	58 (40)	0.67 (0.47)	64 (44)	34 (12)	49 (17)	0.62 (0.22)	54 (19)	149 (135)	202 (182)	2.65 (2.39)	239 (216)
20	31 (14)	46 (20)	0.52 (0.23)	50 (22)	61 (19)	88 (27)	1.09 (0.33)	98 (30)	43 (18)	59 (25)	0.75 (0.32)	69 (29)
21					88 (61)	128 (89)	1.54 (1.07)	141 (98)				
22					82 (61)	118 (88)	1.39 (1.04)	131 (97)				
23	18 (21)	27 (30)	0.29 (0.33)	29 (33)	67 (61)	97 (89)	1.11 (1.02)	107 (98)	99 (83)	133 (112)	1.61 (1.35)	158 (133)
24					32 (35)	46 (51)	0.51 (0.57)	51 (56)				
25												
26												
27												
28												
29					93 (29)	137 (42)	1.36 (0.42)	149 (46)				
30					137 (35)	201 (52)	1.95 (0.51)	219 (57)				
Avg	21	30	0.39	33	58	84	1.11	93	93	125	1.67	148
n	9	9	9	9	23	23	23	23	6	6	6	6
SD	12	17	0.22	19	31	45	0.54	49	47	64	0.82	76
Min	6	9	0.12	10	15	22	0.36	24	43	59	0.75	69
Max	40	58	0.75	64	137	201	2.44	219	160	216	2.88	256

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for December, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$
1												
2	139 (76)	203 (111)	1.79 (0.98)	222 (121)	64 (28)	94 (41)	0.87 (0.38)	103 (45)	120 (77)	163 (104)	1.62 (1.04)	192 (123)
3	242 (95)	355 (138)	3.06 (1.18)	388 (151)	66 (24)	97 (36)	0.88 (0.33)	105 (39)	136 (84)	185 (114)	1.81 (1.12)	218 (134)
4					79 (22)	116 (32)	1.03 (0.28)	126 (35)				
5					112 (52)	164 (77)	1.42 (0.66)	179 (84)				
6					180 (105)	266 (155)	2.24 (1.30)	289 (168)	74 (86)	101 (117)	0.92 (1.07)	119 (138)
7					193 (109)	285 (160)	2.35 (1.32)	309 (174)	108 (112)	146 (152)	1.30 (1.36)	172 (180)
8	276 (266)	405 (390)	3.15 (3.03)	442 (425)	346 (377)	510 (556)	4.12 (4.50)	553 (603)	57 (106)	77 (144)	0.67 (1.27)	91 (170)
9	282 (60)	414 (88)	3.15 (0.67)	452 (96)	63 (68)	93 (101)	0.74 (0.80)	101 (109)	18 (8)	25 (11)	0.21 (0.09)	29 (13)
10					26 (17)	39 (25)	0.30 (0.20)	42 (28)				
11					41 (48)	60 (70)	0.46 (0.53)	65 (76)				
12												
13	15 (9)	22 (13)	0.16 (0.09)	24 (14)	137 (66)	203 (98)	1.47 (0.71)	220 (106)	30 (19)	41 (26)	0.32 (0.21)	49 (31)
14					190 (67)	281 (99)	2.00 (0.71)	305 (107)	65 (50)	89 (68)	0.68 (0.52)	104 (79)
15	33 (10)	49 (15)	0.33 (0.10)	53 (17)	126 (122)	186 (180)	1.30 (1.26)	202 (194)	81 (43)	111 (58)	0.84 (0.44)	130 (68)
16									110 (123)	149 (168)	1.10 (1.24)	175 (197)
17	56 (87)	83 (128)	0.54 (0.84)	90 (139)	9 (10)	14 (15)	0.09 (0.10)	15 (16)	102 (236)	138 (322)	1.01 (2.34)	163 (378)
18	25 (50)	37 (73)	0.24 (0.47)	40 (80)	16 (20)	24 (30)	0.16 (0.20)	26 (33)	11 (25)	15 (35)	0.11 (0.25)	18 (41)
19												
20	7 (8)	10 (13)	0.06 (0.08)	11 (14)	70 (58)	103 (86)	0.65 (0.54)	112 (93)	39 (50)	53 (67)	0.36 (0.46)	62 (79)
21	12 (17)	17 (25)	0.10 (0.15)	19 (27)	114 (90)	168 (134)	1.05 (0.83)	182 (145)	65 (84)	89 (114)	0.60 (0.76)	104 (134)
22	8 (12)	12 (18)	0.07 (0.11)	13 (20)	156 (215)	231 (318)	1.42 (1.95)	249 (343)	97 (120)	132 (164)	0.87 (1.08)	155 (192)
23	8 (10)	12 (14)	0.07 (0.08)	13 (16)	33 (44)	49 (64)	0.30 (0.39)	53 (70)	132 (149)	180 (203)	1.17 (1.32)	211 (239)
24												
25	35 (24)	52 (35)	0.30 (0.20)	57 (38)	12 (13)	18 (19)	0.10 (0.11)	19 (20)	185 (120)	252 (163)	1.58 (1.03)	295 (191)
26												
27									227 (157)	310 (214)	1.88 (1.30)	363 (251)
28	174 (168)	257 (248)	1.42 (1.37)	278 (269)	66 (46)	98 (68)	0.55 (0.38)	106 (73)				
29												
30												
31												
Avg	94	138	1.03	150	100	148	1.12	160	92	125	0.95	147
n	14	14	14	14	21	21	21	21	18	18	18	18
SD	103	151	1.20	164	79	117	0.94	127	55	74	0.52	87
Min	7	10	0.06	11	9	14	0.09	15	11	15	0.11	18
Max	282	414	3.15	452	346	510	4.12	553	227	310	1.88	363

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Table F8. Daily mean (SD) of H2S emissions at Site NC3B for January, 2010.

Day	Barn 1				Barn 2				Barn 3			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-1} m^{2}$	$g \cdot d^{-1}$	$mg \cdot d^{-}$	$g \cdot d^{-1} AU^{-1}$	$mg \cdot d^{-}$
1												
2												
3												
4												
5												
6												
7												
8												
9	37 (48)	56 (72)	0.27 (0.35)	60 (77)	80 (46)	119 (68)	0.58 (0.33)	127 (73)	13 (16)	18 (22)	0.09 (0.11)	21 (26)
10	37 (49)	55 (74)	0.27 (0.36)	59 (79)	112 (68)	168 (101)	0.81 (0.49)	180 (108)	26 (35)	36 (48)	0.18 (0.24)	42 (56)
11	62 (68)	92 (102)	0.44 (0.49)	99 (109)	135 (90)	202 (134)	0.97 (0.64)	217 (143)	42 (54)	57 (74)	0.29 (0.37)	67 (86)
12	93 (94)	139 (141)	0.66 (0.67)	148 (151)	179 (220)	268 (329)	1.27 (1.56)	287 (352)	34 (43)	46 (58)	0.23 (0.29)	54 (68)
13	73 (138)	110 (207)	0.52 (0.98)	117 (221)	64 (42)	96 (62)	0.45 (0.29)	103 (67)	48 (55)	66 (76)	0.33 (0.38)	77 (88)
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	60	90	0.43	97	114	171	0.82	183	32	45	0.22	52
n	5	5	5	5	5	5	5	5	5	5	5	5
SD	21	32	0.15	34	41	61	0.29	65	12	17	0.08	20
Min	37	55	0.27	59	64	96	0.45	103	13	18	0.09	21
Max	93	139	0.66	148	179	268	1.27	287	48	66	0.33	77

Table F9. Ammonia concentrations.

Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for December, 2007.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1								
2								
3								
4	0.3 (0.1)	0.2 (0.1)	21.2 (1.5)	15.1 (1.1)	25.7 (5.1)	18.3 (3.6)	36.1 (3.3)	25.8 (2.4)
5	0.4 (0.1)	0.3 (0.1)	21.3 (1.8)	15.2 (1.3)	24.4 (4.5)	17.4 (3.2)	36.4 (3.7)	26.0 (2.7)
6	0.6 (0.2)	0.5 (0.1)	21.7 (1.9)	15.4 (1.4)	25.6 (3.8)	18.3 (2.7)	37.8 (2.6)	27.0 (1.8)
7	0.5 (0.1)	0.4 (0.1)	21.6 (2.3)	15.4 (1.6)	25.4 (5.7)	18.2 (4.1)	43.3 (6.9)	30.9 (4.9)
8	0.5 (0.1)	0.3 (0.1)	18.9 (2.4)	13.5 (1.7)	18.1 (7.6)	13.0 (5.4)	39.8 (15.1)	28.5 (10.8)
9	0.5 (0.1)	0.3 (0.1)	18.4 (2.6)	13.2 (1.9)	13.1 (3.8)	9.4 (2.7)	29.8 (8.2)	21.4 (5.8)
10	0.4 (0.1)	0.3 (0.0)	19.1 (3.2)	13.7 (2.3)	11.2 (4.1)	8.0 (3.0)	23.1 (6.7)	16.6 (4.8)
11	0.3 (0.1)	0.2 (0.1)	17.3 (3.6)	12.4 (2.6)	11.0 (4.8)	7.9 (3.4)	18.8 (6.1)	13.5 (4.3)
12								
13								
14								
15	0.7 (0.1)	0.5 (0.1)	24.2 (1.0)	17.3 (0.7)	18.2 (1.0)	13.0 (0.7)	31.4 (2.6)	22.5 (1.9)
16	0.4 (0.1)	0.3 (0.1)	22.4 (1.4)	16.0 (1.0)	18.3 (1.2)	13.1 (0.9)	32.4 (3.1)	23.2 (2.2)
17	0.4 (0.1)	0.3 (0.1)	28.6 (4.7)	20.4 (3.4)	18.4 (0.7)	13.1 (0.5)	38.7 (5.8)	27.7 (4.1)
18	0.5 (0.1)	0.3 (0.1)	35.1 (6.2)	25.1 (4.5)	16.8 (0.8)	12.0 (0.6)	39.9 (6.0)	28.5 (4.3)
19	0.5 (0.1)	0.4 (0.1)	32.6 (7.7)	23.3 (5.5)	16.6 (1.5)	11.9 (1.1)	40.1 (6.7)	28.7 (4.7)
20	0.6 (0.1)	0.4 (0.1)	30.0 (5.1)	21.5 (3.6)	17.6 (3.0)	12.5 (2.2)	41.4 (6.3)	29.6 (4.5)
21	0.9 (0.1)	0.6 (0.1)	29.4 (2.6)	21.1 (1.9)	19.7 (1.0)	14.1 (0.7)	39.9 (1.8)	28.6 (1.3)
22	1.4 (1.3)	1.0 (1.0)	24.1 (5.1)	17.3 (3.7)	15.3 (4.0)	10.9 (2.8)	35.5 (6.3)	25.4 (4.5)
23	0.6 (0.2)	0.4 (0.2)	25.5 (4.1)	18.3 (2.9)	14.9 (3.1)	10.7 (2.2)	31.3 (8.2)	22.4 (5.9)
24	0.5 (0.1)	0.3 (0.1)	34.6 (5.7)	24.8 (4.1)	21.5 (5.8)	15.5 (4.0)	37.7 (10.6)	27.1 (7.7)
25	0.8 (0.1)	0.5 (0.1)	35.3 (6.1)	25.3 (4.4)	24.6 (7.1)	17.6 (5.1)	36.7 (7.5)	26.3 (5.4)
26	0.6 (0.2)	0.5 (0.1)	39.2 (3.7)	28.0 (2.7)	27.1 (3.1)	19.4 (2.2)	44.3 (2.7)	31.7 (1.9)
27	0.5 (0.1)	0.4 (0.1)	39.6 (6.7)	28.3 (4.8)	25.8 (6.4)	18.4 (4.6)	42.5 (6.2)	30.5 (4.4)
28	0.5 (0.1)	0.4 (0.1)	31.0 (4.9)	22.2 (3.5)	17.2 (4.3)	12.3 (3.1)	30.5 (7.6)	21.9 (5.4)
29	0.4 (0.1)	0.3 (0.1)	24.2 (3.1)	17.4 (2.2)	10.7 (1.6)	7.7 (1.1)	17.2 (8.6)	12.4 (6.2)
30	0.4 (0.1)	0.3 (0.0)	25.9 (1.7)	18.6 (1.2)	13.4 (1.7)	9.6 (1.2)	26.3 (1.7)	18.9 (1.2)
31	0.5 (0.1)	0.4 (0.1)	30.5 (6.1)	21.8 (4.3)	19.5 (3.7)	14.0 (2.7)	28.7 (5.1)	20.6 (3.7)
Avg	0.5	0.4	26.9	19.2	18.8	13.4	34.4	24.6
n	25	25	25	25	25	25	25	25
SD	0.2	0.2	6.5	4.6	5	3.5	7.2	5.1
Min	0.3	0.2	17.3	12.4	10.7	7.7	17.2	12.4
Max	1.4	1.0	39.6	28.3	27.1	19.4	44.3	31.7

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for January, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.5 (0.1)	0.3 (0.1)	35.7 (7.5)	25.5 (5.4)	24.7 (4.7)	17.6 (3.3)	31.9 (7.4)	22.8 (5.3)
2	0.6 (0.1)	0.4 (0.1)	35.6 (3.6)	25.4 (2.6)	26.9 (6.9)	19.2 (4.9)	35.8 (3.9)	25.6 (2.8)
3	0.5 (0.1)	0.4 (0.1)	33.8 (2.8)	24.1 (2.0)	33.4 (8.7)	23.8 (6.3)	38.0 (3.6)	27.1 (2.6)
4	0.4 (0.1)	0.3 (0.0)						
5	0.5 (0.1)	0.3 (0.1)	34.0 (4.2)	24.3 (3.0)	35.8 (14.0)	25.5 (10.0)	19.4 (2.2)	13.8 (1.6)
6	0.5 (0.1)	0.3 (0.1)	30.8 (6.1)	22.1 (4.4)	22.4 (7.6)	16.0 (5.4)	23.4 (2.4)	16.7 (1.7)
7	0.5 (0.1)	0.3 (0.1)	30.4 (4.3)	21.8 (3.0)	20.4 (6.2)	14.6 (4.5)	22.1 (6.4)	15.8 (4.6)
8	0.5 (0.2)	0.4 (0.1)	30.1 (6.3)	21.6 (4.5)	16.1 (4.1)	11.5 (2.9)	21.0 (4.9)	15.0 (3.5)
9	0.4 (0.1)	0.3 (0.1)	27.0 (2.8)	19.4 (2.0)	15.2 (1.9)	10.9 (1.3)	26.9 (2.6)	19.3 (1.9)
10	0.7 (0.3)	0.5 (0.2)	28.7 (4.2)	20.6 (3.0)	17.0 (3.3)	12.2 (2.3)	28.1 (3.9)	20.1 (2.8)
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Avg	0.5	0.4	31.8	22.7	23.5	16.8	27.4	19.6
n	10	10	9	9	9	9	9	9
SD	0.1	0.1	2.9	2	7	5	6.3	4.5
Min	0.4	0.3	27.0	19.4	15.2	10.9	19.4	13.8
Max	0.7	0.5	35.7	25.5	35.8	25.5	38.0	27.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for March, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1								
2								
3								
4								
5								
6	0.4 (0.2)	0.3 (0.2)						
7	0.7 (0.2)	0.5 (0.2)						
8	0.8 (0.2)	0.5 (0.2)	11.9 (2.7)	8.7 (1.9)	10.5 (3.9)	7.6 (2.8)	9.5 (8.4)	6.8 (6.1)
9	1.1 (0.2)	0.7 (0.1)	20.6 (4.2)	14.7 (3.1)	19.6 (6.4)	13.8 (4.6)	20.9 (5.9)	14.7 (4.2)
10	1.2 (0.2)	0.8 (0.2)	24.2 (5.8)	17.3 (4.2)	21.0 (7.9)	15.0 (5.6)	21.1 (7.1)	15.0 (5.1)
11	1.1 (0.3)	0.8 (0.2)	23.5 (6.0)	16.8 (4.3)	18.9 (7.8)	13.5 (5.6)	28.3 (8.5)	20.3 (6.1)
12								
13								
14								
15	0.7 (0.1)	0.5 (0.1)	15.7 (4.2)	11.3 (3.0)	11.7 (3.0)	8.4 (2.1)	20.9 (7.3)	15.0 (5.2)
16	0.7 (0.1)	0.5 (0.1)	17.2 (4.0)	12.3 (2.9)	13.0 (2.7)	9.3 (2.0)	25.2 (4.9)	18.1 (3.6)
17	0.8 (0.1)	0.6 (0.1)	20.3 (4.0)	14.5 (2.8)	16.5 (3.7)	11.8 (2.7)	26.0 (4.6)	18.6 (3.3)
18	0.7 (0.1)	0.5 (0.1)	20.9 (6.1)	15.0 (4.3)	15.9 (5.6)	11.3 (4.0)	24.9 (5.7)	17.8 (4.1)
19	0.6 (0.1)	0.5 (0.1)	13.4 (4.9)	9.6 (3.5)	9.1 (3.5)	6.5 (2.5)	14.4 (7.5)	10.3 (5.4)
20	0.5 (0.1)	0.4 (0.0)	16.5 (4.7)	11.9 (3.4)	10.4 (2.9)	7.4 (2.1)	16.4 (5.6)	11.8 (4.1)
21	0.5 (0.2)	0.3 (0.1)	21.1 (7.6)	15.1 (5.5)	15.5 (5.4)	11.1 (3.9)	23.5 (8.0)	16.8 (5.8)
22	0.3 (0.1)	0.2 (0.1)	16.4 (7.0)	11.7 (5.0)	11.9 (5.6)	8.5 (4.0)	17.0 (9.0)	12.2 (6.5)
23	0.5 (0.1)	0.3 (0.1)	21.4 (4.8)	15.3 (3.4)	16.6 (3.5)	11.8 (2.5)	23.2 (4.7)	16.6 (3.4)
24	0.5 (0.1)	0.3 (0.0)	23.3 (5.1)	16.7 (3.6)	18.7 (3.9)	13.4 (2.8)	26.8 (5.4)	19.2 (3.9)
25	0.4 (0.1)	0.3 (0.1)	24.7 (4.1)	17.7 (3.0)	19.8 (4.6)	14.2 (3.3)	29.5 (6.0)	21.2 (4.3)
26	0.4 (0.1)	0.3 (0.1)	21.3 (8.5)	15.2 (6.1)	16.2 (6.7)	11.6 (4.8)	25.2 (10.7)	18.1 (7.7)
27	0.3 (0.1)	0.2 (0.1)	18.3 (9.9)	13.1 (7.1)	13.0 (5.9)	9.3 (4.2)	16.3 (10.8)	11.7 (7.7)
28	0.3 (0.1)	0.2 (0.1)	13.2 (5.8)	9.5 (4.2)	9.8 (4.5)	7.0 (3.2)	10.2 (6.1)	7.3 (4.4)
29	0.7 (0.1)	0.5 (0.1)	22.9 (5.3)	16.4 (3.8)	19.0 (4.1)	13.6 (2.9)	18.5 (7.9)	13.3 (5.6)
30	0.8 (0.1)	0.6 (0.0)	30.4 (1.9)	21.8 (1.3)	25.6 (1.6)	18.3 (1.2)	28.9 (2.0)	20.7 (1.4)
31	0.6 (0.2)	0.4 (0.1)	24.5 (6.9)	17.6 (5.0)	17.8 (6.3)	12.7 (4.5)	21.2 (7.0)	15.3 (5.0)
Avg	0.6	0.5	20.1	14.4	15.7	11.2	21.3	15.3
n	23	23	21	21	21	21	21	21
SD	0.2	0.2	4.4	3.2	4.2	3	5.6	4
Min	0.3	0.2	11.9	8.7	9.1	6.5	9.5	6.8
Max	1.2	0.8	30.4	21.8	25.6	18.3	29.5	21.2

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for April, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.4 (0.0)	0.3 (0.0)	15.3 (5.0)	11.0 (3.6)	11.4 (3.2)	8.2 (2.3)	13.0 (5.3)	9.4 (3.8)
2	0.6 (0.1)	0.4 (0.1)	18.4 (4.2)	13.2 (3.0)	13.9 (4.8)	10.0 (3.4)	15.4 (5.1)	11.0 (3.7)
3	0.6 (0.1)	0.4 (0.1)	27.5 (2.4)	19.7 (1.7)	23.0 (5.6)	16.5 (4.0)	20.4 (6.4)	14.6 (4.6)
4	0.4 (0.0)	0.3 (0.0)	20.3 (6.2)	14.6 (4.4)	14.2 (4.9)	10.2 (3.5)	14.9 (7.5)	10.7 (5.4)
5	0.7 (0.3)		21.4 (2.2)	15.3 (1.7)	12.9 (2.2)	9.4 (1.6)	8.9 (2.0)	6.5 (1.4)
6	0.7 (0.2)	0.5 (0.1)	22.9 (4.1)	17.1 (2.3)	17.1 (2.3)	12.3 (1.7)	14.3 (5.0)	10.3 (3.6)
7	0.8 (0.0)	0.5 (0.0)	26.3 (5.1)	18.9 (3.6)	21.4 (2.8)	15.3 (2.0)	21.4 (2.2)	15.3 (1.6)
8	0.8 (0.0)	0.5 (0.0)	22.3 (4.6)	16.0 (3.3)	19.4 (4.4)	13.9 (3.1)	21.2 (3.0)	15.2 (2.2)
9	0.7 (0.1)	0.5 (0.1)	21.0 (2.2)	15.1 (1.6)	16.2 (4.6)	11.6 (3.3)	21.1 (3.2)	15.2 (2.3)
10	0.6 (0.2)	0.4 (0.2)	19.4 (5.3)	13.9 (3.8)	14.7 (4.4)	10.5 (3.1)	19.0 (7.5)	13.7 (5.4)
11	0.7 (0.3)	0.5 (0.2)	15.0 (6.9)	10.8 (4.9)	8.5 (5.9)	6.1 (4.2)	14.5 (7.6)	10.4 (5.4)
12	0.6 (0.3)	0.5 (0.2)	13.9 (4.9)	10.0 (3.5)	8.0 (4.4)	5.7 (3.2)	11.2 (4.2)	8.0 (3.0)
13	0.3 (0.1)	0.2 (0.1)	17.1 (4.1)	12.2 (3.0)	12.5 (4.4)	8.9 (3.1)	15.9 (3.8)	11.4 (2.8)
14	0.6 (0.1)	0.4 (0.1)	23.6 (4.0)	16.9 (2.9)	22.1 (5.8)	15.8 (4.2)	26.7 (5.8)	19.1 (4.2)
15	0.7 (0.1)	0.5 (0.0)	22.1 (5.2)	15.8 (3.7)	20.7 (5.2)	14.8 (3.7)	30.3 (7.1)	21.6 (5.1)
16	0.6 (0.1)	0.4 (0.1)	23.5 (7.6)	16.8 (5.5)	21.8 (8.1)	15.6 (5.8)	27.5 (8.1)	19.6 (5.8)
17	0.4 (0.1)	0.3 (0.1)	19.9 (8.4)	14.2 (6.0)	18.0 (10.2)	12.9 (7.3)	22.4 (11.5)	16.0 (8.2)
18	0.3 (0.1)	0.2 (0.1)	14.9 (8.2)	10.6 (5.9)	13.0 (8.2)	9.3 (5.9)	15.7 (9.6)	11.3 (6.9)
19	0.3 (0.1)	0.2 (0.1)	14.0 (6.9)	10.0 (4.9)	10.9 (5.6)	7.8 (4.0)	12.9 (5.4)	9.3 (3.9)
20	0.5 (0.1)	0.3 (0.1)	14.6 (3.0)	10.5 (2.2)	12.2 (3.5)	8.8 (2.6)	13.7 (3.0)	9.9 (2.2)
21	0.7 (0.2)	0.5 (0.2)	19.8 (2.3)	14.2 (1.6)	16.9 (3.2)	12.1 (2.3)	19.1 (2.4)	13.7 (1.7)
22	0.9 (0.1)	0.7 (0.1)	20.9 (5.2)	14.7 (3.7)	13.9 (3.4)	9.9 (2.5)	15.8 (4.2)	11.2 (3.1)
23	0.9 (0.1)	0.7 (0.1)	20.6 (6.2)	14.8 (4.4)	13.1 (3.2)	9.4 (2.3)	15.6 (2.9)	11.2 (2.1)
24	0.8 (0.3)	0.6 (0.2)	17.7 (6.6)	12.9 (4.7)	12.8 (5.5)	9.3 (3.9)	15.5 (5.2)	11.3 (3.7)
25	0.3 (0.1)	0.2 (0.0)	15.6 (6.7)	11.2 (4.8)	12.4 (6.3)	8.9 (4.5)	14.1 (5.3)	10.1 (3.8)
26	0.4 (0.1)	0.3 (0.0)	13.6 (7.3)	9.8 (5.3)	10.2 (4.9)	7.3 (3.5)	12.0 (5.0)	8.7 (3.6)
27	0.4 (0.1)	0.3 (0.1)	16.7 (4.4)	12.0 (3.1)	10.8 (3.1)	7.8 (2.2)	12.4 (3.0)	8.9 (2.2)
28	0.4 (0.0)	0.3 (0.0)	16.9 (3.7)	12.1 (2.6)	11.6 (1.7)	8.3 (1.2)	10.1 (1.1)	7.3 (0.8)
29	0.3 (0.1)	0.2 (0.1)	23.6 (3.7)	16.9 (2.7)	15.5 (3.6)	11.1 (2.6)	17.4 (5.0)	12.4 (3.6)
30	0.5 (0.1)	0.3 (0.1)	25.7 (5.8)	18.4 (4.1)	17.4 (4.7)	12.4 (3.4)	22.0 (5.1)	15.8 (3.7)
Avg	0.6	0.4	19.5	14	14.9	10.7	17.2	12.3
n	30	29	30	30	30	30	30	30
SD	0.2	0.1	3.9	2.8	4.1	2.9	5.1	3.6
Min	0.3	0.2	13.6	9.8	8.0	5.7	8.9	6.5
Max	0.9	0.7	27.5	19.7	23.0	16.5	30.3	21.6

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for May, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.3 (0.0)	0.2 (0.0)	22.4 (11.1)	16.0 (7.9)	13.7 (6.5)	9.8 (4.6)	17.7 (6.9)	12.7 (4.9)
2	0.4 (0.1)	0.3 (0.1)	15.5 (7.9)	11.4 (5.6)	10.0 (4.2)	7.3 (3.0)	14.1 (5.0)	10.3 (3.6)
3	0.4 (0.1)	0.3 (0.1)	12.9 (5.6)	10.1 (3.9)	9.6 (4.2)	7.5 (3.0)	13.7 (5.3)	10.4 (4.0)
4	0.4 (0.1)	0.3 (0.1)	13.0 (5.6)	9.4 (4.1)	9.2 (2.8)	6.6 (2.0)	13.0 (3.6)	9.3 (2.6)
5	0.6 (0.2)	0.4 (0.1)	20.3 (3.9)	14.6 (2.8)	12.7 (1.9)	9.1 (1.4)	14.2 (3.9)	10.2 (2.8)
6	0.5 (0.1)	0.4 (0.1)	19.1 (7.2)	13.7 (5.2)	11.7 (4.1)	8.4 (2.9)	17.3 (6.0)	12.4 (4.3)
7	0.4 (0.1)	0.3 (0.0)	14.5 (7.6)	10.5 (5.5)	10.3 (4.6)	7.4 (3.3)	14.7 (4.9)	10.5 (3.5)
8	0.4 (0.1)	0.3 (0.0)	14.0 (5.0)	10.1 (3.6)	8.4 (3.3)	6.0 (2.4)	14.1 (4.4)	10.1 (3.2)
9	0.4 (0.1)	0.3 (0.1)	9.7 (3.2)	7.0 (2.3)	5.9 (1.5)	4.2 (1.1)	9.7 (1.3)	7.0 (1.0)
10	0.7 (0.1)	0.5 (0.1)	12.2 (5.3)	8.8 (3.8)	8.5 (3.1)	6.1 (2.2)	12.7 (3.8)	9.1 (2.7)
11	0.5 (0.1)	0.4 (0.1)	16.9 (4.5)	12.1 (3.2)	11.1 (3.3)	8.0 (2.4)	16.9 (2.6)	12.1 (1.8)
12	0.4 (0.2)	0.3 (0.1)	18.3 (2.4)	13.1 (1.7)	12.0 (2.7)	8.6 (1.9)	17.4 (2.7)	12.5 (1.9)
13	0.5 (0.2)	0.4 (0.1)	19.4 (6.5)	13.9 (4.6)	13.1 (4.3)	9.3 (3.1)	20.1 (5.0)	14.4 (3.6)
14	0.3 (0.1)	0.2 (0.1)	17.7 (7.1)	12.7 (5.1)	10.8 (5.2)	7.7 (3.7)	16.6 (7.1)	11.9 (5.1)
15	0.3 (0.1)	0.2 (0.0)	15.5 (4.1)	11.1 (2.9)	9.1 (2.8)	6.5 (2.0)	13.4 (3.4)	9.6 (2.4)
16	0.3 (0.1)	0.2 (0.1)	10.7 (4.6)	7.7 (3.3)	7.2 (2.2)	5.2 (1.6)	8.4 (2.2)	6.0 (1.6)
17	0.2 (0.1)	0.2 (0.0)	15.6 (5.0)	11.2 (3.6)	10.5 (4.0)	7.5 (2.9)	15.4 (4.7)	11.1 (3.4)
18	0.2 (0.1)	0.2 (0.0)	14.0 (6.0)	10.1 (4.3)	10.3 (4.6)	7.4 (3.3)	16.0 (4.7)	11.5 (3.4)
19	1.5 (1.7)	1.1 (1.2)	19.3 (6.9)	13.9 (5.0)	9.9 (4.0)	7.1 (2.9)	15.9 (5.7)	11.4 (4.1)
20	0.3 (0.1)	0.2 (0.0)	21.6 (9.6)	15.6 (7.0)	10.0 (4.5)	7.2 (3.3)	12.5 (6.1)	9.0 (4.4)
21	0.3 (0.1)	0.2 (0.1)	16.3 (5.3)	11.7 (3.8)	10.9 (3.7)	7.8 (2.6)	15.7 (4.2)	11.2 (3.0)
22	0.3 (0.1)	0.2 (0.1)	14.7 (6.5)	10.5 (4.7)	13.2 (6.1)	9.4 (4.4)	17.6 (5.6)	12.6 (4.0)
23	0.8 (0.2)	0.5 (0.2)	12.7 (5.7)	9.1 (4.1)	11.5 (5.7)	8.2 (4.1)	17.0 (6.2)	12.2 (4.5)
24	0.7 (0.3)	0.5 (0.2)	16.8 (2.2)	12.1 (1.6)	13.6 (3.2)	9.8 (2.3)	22.5 (2.6)	16.1 (1.8)
25	0.5 (0.2)	0.3 (0.1)	15.2 (5.4)	10.9 (3.9)	13.4 (6.5)	9.6 (4.6)	18.9 (6.1)	13.6 (4.4)
26	0.3 (0.1)	0.2 (0.1)	12.3 (6.1)	8.9 (4.4)	11.8 (6.7)	8.5 (4.8)	16.7 (8.4)	12.0 (6.0)
27	0.3 (0.1)	0.2 (0.1)	10.6 (6.5)	7.6 (4.6)	9.1 (4.1)	6.6 (3.0)	12.4 (6.6)	8.9 (4.7)
28	0.7 (0.3)	0.5 (0.2)	16.1 (4.4)	11.6 (3.1)	14.6 (4.6)	10.5 (3.3)	19.6 (5.1)	14.1 (3.6)
29	0.7 (0.3)	0.5 (0.2)	17.2 (5.9)	12.4 (4.2)	13.1 (4.6)	9.4 (3.3)	18.2 (4.8)	13.1 (3.4)
30	0.4 (0.1)	0.3 (0.1)	14.7 (10.9)	10.6 (7.8)	10.5 (5.3)	7.6 (3.8)	14.4 (6.8)	10.4 (4.9)
31	0.4 (0.1)	0.3 (0.0)	9.2 (4.9)	6.7 (3.6)	7.4 (2.1)	5.3 (1.5)	9.3 (4.0)	6.7 (2.9)
Avg	0.5	0.3	15.4	11.1	10.7	7.7	15.4	11
n	31	31	31	31	31	31	31	31
SD	0.2	0.2	3.3	2.4	2.1	1.5	3.1	2.2
Min	0.2	0.2	9.2	6.7	5.9	4.2	8.4	6.0
Max	1.5	1.1	22.4	16.0	14.6	10.5	22.5	16.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for June, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.5 (0.1)	0.4 (0.1)	8.9 (4.2)	6.4 (3.1)	4.8 (2.1)	3.4 (1.5)	9.7 (4.4)	7.0 (3.2)
2	0.9 (0.3)	0.6 (0.2)	10.7 (4.3)	7.7 (3.1)	8.5 (2.3)	6.1 (1.6)	10.0 (3.2)	7.2 (2.3)
3	0.4 (0.1)	0.3 (0.1)	11.3 (7.4)	8.2 (5.4)	8.4 (1.6)	6.0 (1.1)	11.7 (6.0)	8.4 (4.3)
4	0.4 (0.1)	0.3 (0.0)	7.9 (5.5)	5.7 (4.0)	6.8 (1.4)	4.9 (1.0)	7.3 (3.8)	5.3 (2.8)
5	0.4 (0.1)	0.3 (0.0)	5.9 (3.2)	4.3 (2.3)	6.3 (1.5)	4.6 (1.1)	6.3 (3.4)	4.5 (2.5)
6	0.5 (0.1)	0.3 (0.0)	5.9 (3.1)	4.2 (2.2)	6.3 (0.6)	4.5 (0.5)	6.3 (3.4)	4.5 (2.5)
7	0.4 (0.1)	0.3 (0.1)	6.4 (3.3)	4.6 (2.4)	4.8 (2.1)	3.4 (1.5)	7.1 (3.5)	5.1 (2.6)
8	0.5 (0.1)	0.4 (0.0)	6.3 (3.8)	4.6 (2.8)	3.3 (1.5)	2.4 (1.1)	5.7 (3.6)	4.1 (2.6)
9	0.5 (0.1)	0.3 (0.0)	6.1 (3.7)	4.4 (2.7)	3.7 (1.2)	2.7 (0.9)	3.1 (1.1)	2.2 (0.8)
10	0.5 (0.1)	0.3 (0.1)	7.3 (4.0)	5.3 (2.9)	3.4 (1.6)	2.5 (1.1)	4.7 (1.8)	3.4 (1.3)
11								
12								
13	0.5 (0.3)	0.4 (0.2)	14.3 (11.4)	10.3 (8.2)	5.7 (2.7)	4.1 (1.9)	9.1 (5.4)	6.6 (3.9)
14	0.4 (0.1)	0.3 (0.1)	12.8 (10.3)	9.2 (7.4)	5.5 (2.6)	4.0 (1.8)	9.1 (5.8)	6.5 (4.2)
15	0.5 (0.1)	0.4 (0.1)	11.8 (5.5)	8.5 (3.9)	4.6 (1.3)	3.3 (0.9)	9.4 (2.5)	6.8 (1.8)
16	0.4 (0.1)	0.3 (0.0)	12.1 (7.0)	8.7 (5.1)	4.5 (1.6)	3.2 (1.2)	8.1 (5.1)	5.8 (3.7)
17	0.4 (0.2)	0.3 (0.1)	14.9 (9.8)	10.8 (7.1)	4.9 (2.0)	3.5 (1.4)	7.3 (3.2)	5.3 (2.3)
18	0.6 (0.2)	0.4 (0.1)	18.3 (10.7)	13.1 (7.7)	6.5 (3.5)	4.7 (2.5)	10.5 (4.9)	7.6 (3.5)
19	0.4 (0.2)	0.3 (0.1)	16.4 (10.4)	11.8 (7.5)	7.7 (5.4)	5.5 (3.9)	11.2 (6.9)	8.0 (5.0)
20	0.5 (0.3)	0.4 (0.2)	15.7 (8.6)	11.3 (6.2)	8.4 (4.4)	6.0 (3.1)	13.1 (5.8)	9.5 (4.2)
21	0.6 (0.2)	0.4 (0.1)	14.7 (7.2)	10.6 (5.2)	8.1 (3.5)	5.8 (2.5)	13.5 (4.7)	9.7 (3.4)
22	0.5 (0.1)	0.4 (0.1)						
23	0.4 (0.1)	0.3 (0.0)	10.1 (5.1)	7.3 (3.7)	6.4 (3.1)	4.6 (2.3)	10.3 (4.4)	7.4 (3.1)
24	0.4 (0.1)	0.3 (0.1)	7.7 (3.8)	5.5 (2.8)	6.1 (3.7)	4.4 (2.6)	10.0 (6.4)	7.2 (4.6)
25	0.4 (0.1)	0.3 (0.1)	6.3 (4.4)	4.6 (3.2)	5.0 (3.4)	3.6 (2.4)	8.0 (5.3)	5.7 (3.9)
26	0.4 (0.1)	0.3 (0.1)	6.9 (3.7)	5.0 (2.7)	4.0 (2.0)	2.9 (1.5)	9.0 (2.2)	6.5 (1.6)
27	0.4 (0.1)	0.3 (0.1)	5.9 (2.8)	4.2 (2.0)	3.3 (1.7)	2.4 (1.2)	7.7 (1.8)	5.6 (1.3)
28	0.4 (0.1)	0.3 (0.0)	5.6 (2.9)	4.0 (2.1)	3.1 (1.4)	2.2 (1.0)	7.6 (1.9)	5.5 (1.4)
29	0.3 (0.1)	0.2 (0.0)	6.5 (2.6)	4.7 (1.9)	3.6 (1.0)	2.6 (0.7)	7.3 (2.5)	5.3 (1.8)
30	0.4 (0.1)	0.3 (0.1)	6.3 (2.5)	4.5 (1.8)	3.7 (1.4)	2.6 (1.0)	8.1 (2.8)	5.8 (2.1)
Avg	0.5	0.3	9.7	7	5.5	3.9	8.6	6.2
n	28	28	27	27	27	27	27	27
SD	0.1	0.1	3.9	2.8	1.7	1.2	2.4	1.7
Min	0.3	0.2	5.6	4.0	3.1	2.2	3.1	2.2
Max	0.9	0.6	18.3	13.1	8.5	6.1	13.5	9.7

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for July, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}
1	0.7 (0.7)	0.5 (0.5)	7.9 (4.5)	5.6 (3.2)	5.0 (2.3)	3.6 (1.7)	10.2 (4.2)	7.3 (3.0)
2	0.2 (0.1)	0.2 (0.1)	8.6 (6.8)	6.1 (4.9)	5.6 (4.7)	4.0 (3.4)	11.3 (7.3)	8.1 (5.2)
3	0.3 (0.1)	0.2 (0.1)	8.1 (5.4)	5.8 (3.9)	5.3 (3.6)	3.8 (2.6)	9.5 (6.0)	6.8 (4.3)
4	0.4 (0.1)	0.3 (0.1)	6.7 (3.0)	4.8 (2.1)	4.7 (1.4)	3.4 (1.0)	7.5 (3.5)	5.4 (2.5)
5								
6								
7								
8								
9	0.6 (0.1)	0.4 (0.1)	8.8 (4.9)	6.3 (3.5)	4.7 (1.1)	3.4 (0.8)	21.7 (24.0)	11.5 (13.4)
10	0.6 (0.1)	0.4 (0.1)	7.3 (3.0)	5.3 (2.2)	4.7 (0.9)	3.4 (0.6)	7.9 (3.6)	5.7 (2.6)
11	0.6 (0.1)							
12	0.9 (0.2)	0.6 (0.1)	8.3 (4.4)	6.0 (3.2)	5.3 (1.2)	3.8 (0.9)	8.7 (4.6)	
13	0.4 (0.1)	0.3 (0.1)	8.2 (4.3)	6.0 (3.1)	5.1 (2.0)	3.7 (1.5)	8.1 (4.9)	
14	0.6 (0.1)	0.4 (0.1)	9.2 (3.1)	6.7 (2.2)	5.3 (1.2)	3.8 (0.8)	9.7 (3.6)	
15	0.8 (0.1)	0.6 (0.1)	8.3 (3.3)	6.0 (2.4)	5.4 (1.2)	3.9 (0.9)	7.8 (2.6)	
16	1.0 (0.1)	0.7 (0.1)	8.2 (4.5)	6.1 (3.3)	5.3 (1.4)	3.9 (1.0)	8.6 (4.8)	
17	0.9 (0.2)	0.6 (0.1)	9.1 (5.6)	6.5 (4.0)	5.8 (2.1)	4.2 (1.5)	9.6 (5.6)	
18	1.0 (0.4)	0.7 (0.3)	8.5 (5.2)	6.1 (3.7)	5.2 (1.6)	3.7 (1.2)	8.8 (4.2)	6.3 (3.0)
19	1.2 (0.1)	0.9 (0.1)	7.6 (2.7)	5.5 (1.9)	5.2 (1.0)	3.8 (0.7)	8.3 (2.7)	6.0 (2.0)
20	0.7 (0.3)	0.5 (0.2)	6.6 (2.8)	4.7 (2.0)	5.2 (0.7)	3.7 (0.5)	7.5 (3.3)	5.4 (2.4)
21	0.5 (0.1)	0.4 (0.1)	5.9 (2.3)	4.2 (1.7)	5.3 (0.8)	3.8 (0.6)	6.4 (3.3)	4.6 (2.4)
22	0.5 (0.1)	0.3 (0.0)	6.9 (2.8)	5.0 (2.0)	4.9 (1.1)	3.5 (0.8)	6.9 (2.6)	5.0 (1.9)
23	0.8 (0.2)	0.6 (0.2)	8.7 (3.5)	6.2 (2.5)	4.9 (1.8)	3.5 (1.3)	8.5 (2.1)	6.1 (1.5)
24	0.6 (0.1)	0.4 (0.1)	21.1 (20.7)	15.2 (14.9)	5.2 (1.6)	3.7 (1.2)	8.6 (2.7)	6.2 (2.0)
25	0.8 (0.1)	0.6 (0.1)						
26	0.6 (0.3)	0.5 (0.2)					8.4 (4.2)	6.1 (3.1)
27	0.6 (0.1)	0.4 (0.1)					6.8 (2.2)	4.9 (1.6)
28	0.6 (0.2)	0.5 (0.1)					6.5 (2.5)	4.7 (1.8)
29	0.6 (0.1)	0.5 (0.1)					4.6 (2.9)	3.3 (2.1)
30								
31								
Avg	0.7	0.5	8.6	6.2	5.2	3.7	8.8	6.1
n	25	24	19	19	19	19	23	17
SD	0.2	0.2	3.1	2.2	0.3	0.2	3.1	1.7
Min	0.2	0.2	5.9	4.2	4.7	3.4	4.6	3.3
Max	1.2	0.9	21.1	15.2	5.8	4.2	21.7	11.5

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for August, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1								
2								
3								
4								
5								
6								
7								
8								
9	0.5 (0.1)	0.4 (0.1)	9.1 (3.5)	6.6 (2.5)	6.4 (1.8)	4.7 (1.3)		
10	0.3 (0.1)	0.2 (0.0)	7.4 (2.4)	5.4 (1.7)	5.1 (1.9)	3.7 (1.4)	1.3 (0.1)	
11	0.2 (0.0)	0.1 (0.0)	9.0 (3.0)	6.5 (2.2)	5.6 (2.4)	4.0 (1.7)	5.2 (3.1)	
12	0.3 (0.1)	0.2 (0.0)	9.8 (5.2)	7.1 (3.8)	6.5 (3.7)	4.6 (2.7)	8.1 (3.1)	
13	0.7 (0.1)	0.5 (0.0)	14.8 (1.2)	10.6 (0.9)	8.6 (1.6)	6.2 (1.2)	9.5 (1.1)	6.9 (0.8)
14	0.4 (0.1)	0.3 (0.1)	12.4 (3.4)	8.9 (2.4)	7.7 (2.9)	5.6 (2.1)	8.3 (3.4)	6.0 (2.5)
15	0.6 (0.1)	0.4 (0.1)	10.1 (4.7)	7.3 (3.4)	6.0 (3.0)	4.3 (2.2)	7.4 (3.2)	5.3 (2.3)
16	0.6 (0.1)	0.4 (0.1)	10.7 (3.1)	7.7 (2.2)	5.8 (1.6)	4.2 (1.1)	7.2 (1.9)	5.2 (1.3)
17	0.5 (0.1)	0.4 (0.0)	12.9 (4.2)	9.4 (3.1)	7.4 (1.5)	5.3 (1.1)	8.0 (2.0)	5.8 (1.5)
18	0.6 (0.1)	0.4 (0.0)	12.3 (4.9)	8.9 (3.5)	6.9 (2.4)	5.0 (1.8)	8.4 (3.8)	
19	0.4 (0.1)	0.3 (0.0)	9.9 (5.1)	7.1 (3.7)	6.4 (2.7)	4.6 (1.9)	8.6 (5.0)	
20	0.4 (0.1)	0.3 (0.1)	8.8 (4.4)	6.4 (3.2)	6.4 (2.7)	4.6 (2.0)	7.7 (4.1)	
21	0.8 (0.1)	0.5 (0.0)	9.8 (2.9)	7.1 (2.1)	6.7 (1.5)	4.8 (1.1)	8.0 (2.1)	
22	0.7 (0.1)	0.5 (0.1)	9.2 (3.8)	6.6 (2.7)	6.9 (2.4)	5.0 (1.7)	8.9 (3.8)	
23	0.7 (0.1)	0.5 (0.1)	9.6 (3.9)	6.9 (2.8)	7.3 (2.6)	5.3 (1.9)	8.9 (3.4)	
24	0.7 (0.1)	0.5 (0.1)	9.4 (4.5)	6.8 (3.2)	7.5 (3.5)	5.4 (2.5)	8.8 (4.6)	
25	0.5 (0.0)							
26	0.8 (0.1)							
27	0.8 (0.1)	0.6 (0.1)	9.2 (1.0)	6.7 (0.7)	7.2 (1.3)	5.2 (1.0)	9.1 (2.0)	6.6 (1.4)
28	0.7 (0.1)	0.5 (0.1)	8.0 (1.8)	5.8 (1.3)	6.4 (1.4)	4.6 (1.0)	7.8 (2.0)	5.6 (1.4)
29	0.5 (0.1)	0.4 (0.1)	8.2 (2.6)	5.9 (1.9)	7.5 (2.2)	5.4 (1.6)	9.0 (2.8)	6.5 (2.0)
30	0.6 (0.1)	0.4 (0.0)	7.5 (2.8)	5.4 (2.0)	6.7 (2.2)	4.8 (1.6)	8.2 (3.0)	5.9 (2.2)
31	0.9 (0.1)	0.7 (0.1)						
Avg	0.6	0.4	9.9	7.2	6.8	4.9	7.8	6
n	23	21	20	20	20	20	19	9
SD	0.2	0.1	1.8	1.3	0.8	0.6	1.8	0.5
Min	0.2	0.1	7.4	5.4	5.1	3.7	1.3	5.2
Max	0.9	0.7	14.8	10.6	8.6	6.2	9.5	6.9

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for September, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}
1	0.7 (0.1)	0.5 (0.1)	8.9 (3.1)	6.4 (2.2)	8.0 (2.4)	5.7 (1.8)	10.0 (3.5)	7.2 (2.5)
2	0.5 (0.1)	0.4 (0.1)	10.4 (5.1)	7.5 (3.7)	10.6 (5.7)	7.6 (4.1)	12.7 (6.1)	9.1 (4.4)
3	0.5 (0.1)	0.3 (0.1)	10.3 (5.3)	7.4 (3.8)	9.6 (5.3)	6.9 (3.8)	11.9 (6.4)	8.5 (4.6)
4	0.9 (0.4)	0.6 (0.3)	9.5 (4.8)	6.8 (3.4)	8.9 (4.3)	6.4 (3.1)	11.5 (6.2)	8.3 (4.4)
5	2.1 (0.2)	1.5 (0.1)	8.5 (4.2)	6.1 (3.0)	7.4 (3.5)	5.3 (2.5)	8.7 (5.0)	6.3 (3.6)
6								
7								
8								
9								
10								
11								
12	0.7 (0.1)	0.5 (0.1)	9.2 (3.4)	6.7 (2.4)	6.2 (1.9)	4.5 (1.4)	11.0 (3.5)	7.9 (2.5)
13	0.6 (0.1)	0.4 (0.0)	8.1 (3.0)	5.8 (2.1)	5.7 (1.8)	4.1 (1.3)	9.4 (3.5)	6.8 (2.5)
14	0.6 (0.1)	0.4 (0.1)	7.3 (2.6)	5.2 (1.9)	5.0 (1.4)	3.6 (1.0)	8.3 (3.6)	6.0 (2.6)
15	0.7 (0.1)	0.5 (0.1)	7.4 (2.6)	5.3 (1.9)	5.1 (1.4)	3.7 (1.0)	7.3 (2.9)	5.3 (2.1)
16	0.9 (0.0)	0.6 (0.0)	13.3 (2.3)	9.6 (1.6)	7.8 (1.2)	5.6 (0.9)	11.9 (1.3)	8.6 (0.9)
17	0.7 (0.1)	0.5 (0.1)	15.7 (3.2)	11.3 (2.3)	9.9 (1.6)	7.1 (1.2)	13.2 (1.8)	9.5 (1.3)
18	0.6 (0.1)	0.4 (0.1)	13.4 (4.4)	9.6 (3.2)	11.7 (5.3)	8.4 (3.8)	14.7 (4.6)	10.5 (3.3)
19	0.7 (0.1)	0.5 (0.1)	11.7 (2.5)	8.4 (1.8)	12.2 (4.2)	8.8 (3.0)	14.0 (2.7)	10.1 (1.9)
20	0.6 (0.0)	0.5 (0.0)	13.4 (1.4)	9.6 (1.0)	12.6 (3.9)	9.0 (2.8)	14.6 (1.8)	10.5 (1.3)
21	0.6 (0.0)	0.4 (0.0)						
22	0.6 (0.1)	0.5 (0.0)	12.8 (1.9)	9.2 (1.4)	10.8 (2.5)	7.8 (1.8)	15.4 (2.6)	11.1 (1.9)
23	0.6 (0.1)	0.4 (0.0)	15.2 (2.7)	10.9 (1.9)	9.0 (2.9)	6.4 (2.1)	12.7 (4.8)	9.2 (3.4)
24	0.4 (0.0)	0.3 (0.0)	15.5 (5.4)	11.1 (3.9)	8.2 (1.5)	5.8 (1.1)	10.4 (0.7)	7.4 (0.5)
25	0.4 (0.1)	0.3 (0.1)	8.8 (0.7)	6.3 (0.5)	9.1 (1.2)	6.5 (0.8)	11.1 (0.9)	8.0 (0.7)
26	0.4 (0.1)	0.3 (0.1)	7.9 (0.7)	5.7 (0.5)	6.6 (0.5)	4.7 (0.3)	10.1 (1.3)	7.3 (0.9)
27	0.5 (0.1)	0.3 (0.1)	8.5 (0.9)	6.1 (0.7)	7.1 (2.0)	5.1 (1.4)	9.9 (1.4)	7.1 (1.0)
28	0.4 (0.0)	0.3 (0.0)	8.8 (1.2)	6.3 (0.8)	7.1 (2.1)	5.1 (1.5)	10.6 (1.9)	7.6 (1.4)
29	0.5 (0.0)	0.3 (0.0)						
30	0.4 (0.0)	0.3 (0.0)	9.5 (0.8)	6.8 (0.6)	7.5 (1.3)	5.4 (0.9)	10.3 (1.1)	7.4 (0.8)
Avg	0.6	0.5	10.6	7.6	8.4	6.1	11.4	8.2
n	24	24	22	22	22	22	22	22
SD	0.3	0.2	2.7	1.9	2.1	1.5	2.1	1.5
Min	0.4	0.3	7.3	5.2	5.0	3.6	7.3	5.3
Max	2.1	1.5	15.7	11.3	12.6	9.0	15.4	11.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for October, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.4 (0.1)	0.3 (0.1)	10.3 (1.2)	7.4 (0.9)	8.2 (1.8)	5.9 (1.3)	12.2 (2.3)	8.8 (1.7)
2	0.2 (0.1)	0.1 (0.0)	12.2 (2.0)	8.8 (1.4)	10.6 (2.5)	7.6 (1.8)	16.9 (3.7)	12.1 (2.7)
3	0.2 (0.0)	0.1 (0.0)	12.5 (2.7)	9.0 (2.0)	11.7 (3.8)	8.4 (2.7)	16.3 (4.9)	11.7 (3.5)
4	0.3 (0.1)	0.2 (0.0)	12.6 (2.9)	9.0 (2.1)	11.4 (4.4)	8.2 (3.1)	14.8 (4.5)	10.6 (3.2)
5	0.3 (0.1)	0.2 (0.0)	11.7 (2.2)	8.6 (1.5)	12.8 (3.5)	9.2 (2.5)	13.6 (3.6)	10.0 (2.5)
6	0.6 (0.2)	0.4 (0.1)	11.4 (3.2)	8.2 (2.3)	10.6 (5.2)	7.6 (3.7)	12.1 (4.0)	8.7 (2.9)
7	0.6 (0.1)	0.4 (0.1)	12.0 (2.4)	8.6 (1.8)	10.9 (3.2)	7.8 (2.3)	14.3 (2.6)	10.3 (1.9)
8	0.5 (0.2)	0.4 (0.1)	13.3 (3.4)	9.5 (2.4)	12.5 (5.3)	9.0 (3.8)	14.3 (4.5)	10.3 (3.2)
9	0.4 (0.1)	0.3 (0.1)	13.2 (2.6)	9.5 (1.9)	9.9 (3.3)	7.2 (2.4)	12.7 (2.3)	9.1 (1.6)
10	0.8 (0.2)	0.6 (0.1)	13.4 (1.5)	9.7 (1.1)	9.4 (1.0)	6.8 (0.7)	13.0 (1.1)	9.4 (0.8)
11	0.7 (0.1)	0.5 (0.0)	14.6 (1.4)	10.5 (1.0)	9.7 (2.3)	7.0 (1.6)	14.0 (0.9)	10.1 (0.6)
12	0.9 (0.1)	0.6 (0.1)	14.8 (1.6)	10.6 (1.1)	11.9 (3.4)	8.5 (2.4)	14.1 (2.1)	10.1 (1.5)
13	0.7 (0.1)	0.5 (0.0)	14.6 (2.7)	10.4 (2.0)	12.8 (5.0)	9.2 (3.6)	15.1 (3.5)	10.9 (2.5)
14	0.7 (0.1)	0.5 (0.1)	15.2 (4.1)	10.9 (2.9)	14.0 (7.1)	10.0 (5.1)	15.6 (4.8)	11.3 (3.4)
15	0.3 (0.0)	0.2 (0.0)	14.5 (5.6)	10.4 (4.0)	12.9 (7.2)	9.2 (5.1)	15.1 (5.9)	10.9 (4.3)
16	0.3 (0.0)	0.2 (0.0)	12.3 (4.3)	8.8 (3.1)	11.2 (6.0)	8.0 (4.3)	14.2 (5.1)	10.2 (3.7)
17	0.6 (0.1)	0.4 (0.1)	13.4 (1.8)	9.7 (1.3)	11.7 (3.1)	8.4 (2.2)	16.1 (3.0)	11.6 (2.1)
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg	0.5	0.3	13.1	9.4	11.3	8.1	14.4	10.4
n	17	17	17	17	17	17	17	17
SD	0.2	0.2	1.3	0.9	1.4	1	1.4	1
Min	0.2	0.1	10.3	7.4	8.2	5.9	12.1	8.7
Max	0.9	0.6	15.2	10.9	14.0	10.0	16.9	12.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for November, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1								
2								
3								
4	0.3 (0.1)	0.2 (0.0)						
5	0.2 (0.1)	0.1 (0.1)	13.4 (1.3)	9.6 (0.9)	8.1 (1.0)	5.8 (0.7)	11.0 (1.1)	7.9 (0.8)
6	0.0 (0.1)	0.0 (0.1)	13.7 (5.0)	9.8 (3.5)	9.9 (3.3)	7.1 (2.4)	10.4 (2.9)	7.5 (2.1)
7	0.0 (0.0)	0.0 (0.0)	13.4 (5.9)	9.6 (4.2)	10.0 (5.0)	7.2 (3.6)	10.9 (3.2)	7.8 (2.3)
8	0.2 (0.2)		11.6 (4.8)		8.4 (2.1)		10.9 (1.3)	
9	1.3 (0.6)		7.8 (2.5)		11.6 (5.5)		14.2 (3.6)	
10	0.0 (0.1)	0.0 (0.1)	13.0 (3.2)	9.3 (2.3)	18.0 (5.3)	12.9 (3.8)	15.2 (3.4)	10.9 (2.4)
11	0.3 (0.1)	0.2 (0.1)	17.6 (4.2)	12.6 (3.0)	18.0 (5.1)	12.9 (3.6)	15.5 (2.8)	11.1 (2.0)
12	0.4 (0.1)	0.3 (0.0)	16.2 (3.5)	11.5 (2.5)	15.5 (5.2)	11.1 (3.7)	11.8 (1.5)	8.4 (1.1)
13	0.2 (0.1)	0.2 (0.1)	12.9 (2.4)	9.3 (1.7)	11.0 (3.0)	7.9 (2.1)	10.2 (1.1)	7.4 (0.8)
14	0.1 (0.1)	0.1 (0.0)	13.5 (1.5)	9.7 (1.1)	9.8 (1.1)	7.0 (0.8)	12.5 (2.0)	9.0 (1.5)
15	0.0 (0.1)	0.0 (0.0)	11.4 (4.4)	8.2 (3.2)	8.7 (3.4)	6.2 (2.4)	9.7 (3.2)	7.0 (2.3)
16	0.0 (0.1)	0.0 (0.0)	17.9 (1.6)	12.8 (1.1)	20.4 (4.0)	14.6 (2.9)	16.5 (1.6)	11.8 (1.1)
17	0.1 (0.1)	0.1 (0.0)	19.3 (3.2)	13.8 (2.3)	23.2 (3.6)	16.6 (2.6)	18.0 (2.0)	12.9 (1.4)
18	0.2 (0.1)	0.1 (0.1)	20.0 (2.9)	14.2 (2.0)	26.4 (1.9)	18.9 (1.4)	20.5 (2.9)	14.6 (2.1)
19	0.2 (0.1)	0.1 (0.1)	19.2 (6.6)	13.7 (4.7)	30.2 (3.6)	21.6 (2.5)	25.5 (2.8)	18.2 (2.0)
20	0.1 (0.1)	0.1 (0.1)	19.4 (4.6)	13.8 (3.3)	27.4 (6.8)	19.6 (4.8)	22.5 (3.9)	16.1 (2.8)
21	0.4 (0.0)	0.3 (0.0)	18.6 (2.1)	13.3 (1.5)	25.2 (2.6)	18.0 (1.9)	23.2 (2.0)	16.6 (1.4)
22	0.2 (0.1)		17.7 (1.9)	12.6 (1.4)	30.3 (5.6)	21.6 (4.0)	28.0 (4.0)	20.0 (2.9)
23	0.2 (0.0)	0.1 (0.0)	11.3 (1.2)	8.1 (0.8)	29.9 (7.2)	21.4 (5.2)	27.2 (4.6)	19.5 (3.3)
24	0.2 (0.1)		13.4 (2.7)	9.6 (2.0)	31.3 (11.0)	22.4 (7.9)	25.9 (5.4)	18.5 (3.8)
25	0.3 (0.1)	0.2 (0.0)	16.6 (3.9)	11.8 (2.8)	25.7 (6.6)	18.4 (4.7)	24.3 (4.6)	17.3 (3.3)
26	0.2 (0.0)	0.2 (0.0)	19.3 (2.6)	13.8 (1.9)	35.8 (9.1)	25.6 (6.5)	30.1 (6.7)	21.5 (4.8)
27	0.2 (0.0)		18.3 (4.5)	13.0 (3.2)	35.0 (11.6)	25.0 (8.3)	27.7 (6.4)	19.8 (4.6)
28	0.2 (0.1)	0.1 (0.0)	18.5 (5.1)	13.2 (3.6)	29.5 (8.8)	21.1 (6.3)	23.8 (5.9)	17.0 (4.2)
29	0.4 (0.0)	0.3 (0.0)	21.6 (1.2)	15.5 (0.8)	31.3 (2.9)	22.4 (2.1)	19.8 (5.0)	14.1 (3.6)
30	0.3 (0.0)	0.2 (0.0)	18.0 (3.5)	12.9 (2.5)	24.9 (5.7)	17.9 (4.1)	13.3 (2.8)	9.5 (2.0)
Avg	0.2	0.1	15.9	11.7	21.4	16	18.4	13.5
n	27	22	26	24	26	24	26	24
SD	0.2	0.1	3.4	2.1	9.1	6.3	6.6	4.7
Min	0.0	0.0	7.8	8.1	8.1	5.8	9.7	7.0
Max	1.3	0.3	21.6	15.5	35.8	25.6	30.1	21.5

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for December, 2008.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.2 (0.1)	0.1 (0.1)	18.0 (3.4)	12.9 (2.4)	27.0 (5.2)	19.3 (3.7)	22.6 (4.1)	16.1 (2.9)
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	0.0 (0.1)	0.0 (0.0)						
29	0.1 (0.1)	0.1 (0.1)	10.7 (4.0)	7.6 (2.8)	8.1 (2.0)	5.8 (1.4)	8.8 (1.3)	6.3 (1.0)
30	0.0 (0.1)	0.0 (0.0)	9.3 (2.3)	6.6 (1.6)	8.0 (1.9)	5.7 (1.3)	5.3 (2.6)	3.8 (1.8)
31	0.1 (0.0)		9.3 (1.9)		8.2 (2.0)			
Avg	0.1	0.1	11.8	9.1	12.8	10.3	12.2	8.7
n	5	4	4	3	4	3	3	3
SD	0.1	0.1	3.6	2.7	8.2	6.4	7.5	5.3
Min	0.0	0.0	9.3	6.6	8.0	5.7	5.3	3.8
Max	0.2	0.1	18.0	12.9	27.0	19.3	22.6	16.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for January, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.0 (0.1)		11.9 (1.9)	8.5 (1.4)	11.6 (1.2)	8.3 (0.9)	9.9 (1.4)	7.0 (1.0)
2	0.1 (0.0)		11.2 (3.4)	8.0 (2.4)	13.4 (0.8)	9.6 (0.6)	9.9 (2.5)	7.0 (1.8)
3	0.1 (0.1)	0.1 (0.0)	14.5 (2.0)	10.4 (1.5)	15.3 (1.8)	10.9 (1.3)	10.0 (2.4)	7.2 (1.7)
4	0.2 (0.1)	0.1 (0.1)	16.2 (1.2)	11.6 (0.8)	17.7 (1.3)	12.7 (0.9)	11.6 (0.8)	8.3 (0.6)
5	0.1 (0.1)	0.1 (0.1)	14.6 (2.5)	10.5 (1.8)	17.0 (3.7)	12.3 (2.6)	11.2 (2.2)	8.1 (1.6)
6	0.1 (0.0)	0.0 (0.0)	15.4 (2.3)	11.0 (1.6)	19.3 (2.9)	13.9 (2.1)	13.1 (1.9)	9.4 (1.4)
7	0.1 (0.0)	0.1 (0.0)	13.5 (1.7)	9.7 (1.2)	15.1 (1.7)	10.8 (1.2)	10.7 (1.2)	7.6 (0.9)
8	0.0 (0.1)	0.0 (0.1)	18.3 (3.2)	13.0 (2.3)	17.6 (3.9)	12.6 (2.8)	13.6 (2.4)	9.7 (1.7)
9	0.1 (0.0)	0.1 (0.0)	19.8 (2.1)	14.1 (1.5)	18.3 (1.5)	13.1 (1.0)	16.4 (2.0)	11.7 (1.5)
10	0.2 (0.1)	0.1 (0.1)	17.9 (3.7)	13.1 (2.8)	17.7 (2.9)	12.7 (2.0)	14.9 (3.0)	10.7 (2.1)
11	0.1 (0.1)	0.1 (0.1)	18.4 (1.9)		17.5 (1.9)	12.6 (1.4)	15.1 (1.8)	10.8 (1.3)
12	0.2 (0.0)	0.2 (0.0)	18.1 (2.8)	12.9 (2.0)	15.8 (2.7)	11.3 (2.0)	17.2 (2.0)	12.3 (1.4)
13	0.2 (0.0)	0.1 (0.0)	20.6 (1.3)	14.7 (1.0)	16.2 (1.1)	11.6 (0.8)	18.2 (1.6)	13.0 (1.2)
14	0.1 (0.1)	0.1 (0.0)	22.9 (0.8)	16.4 (0.6)	18.9 (1.2)	13.5 (0.8)	19.7 (1.5)	14.1 (1.1)
15	0.1 (0.1)	0.1 (0.1)	17.0 (4.1)	12.2 (2.9)	14.3 (4.8)	10.2 (3.5)	14.5 (3.8)	10.4 (2.7)
16	0.0 (0.1)		13.9 (1.4)	9.9 (1.0)	9.6 (0.9)	6.8 (0.7)	11.8 (0.9)	8.4 (0.7)
17	0.0 (0.0)		16.9 (0.7)	12.0 (0.5)	11.9 (0.8)	8.5 (0.6)	13.9 (0.8)	9.9 (0.6)
18	0.1 (0.0)	0.1 (0.0)						
19	0.2 (0.0)	0.1 (0.0)	20.3 (1.8)	14.5 (1.3)	16.3 (1.1)	11.6 (0.8)	15.9 (1.5)	11.4 (1.1)
20	0.1 (0.0)		18.5 (2.4)	13.2 (1.7)	14.5 (1.8)	10.4 (1.3)	14.4 (2.2)	10.3 (1.6)
21	0.0 (0.0)							
22	0.1 (0.0)							
23	0.1 (0.1)	0.1 (0.1)	14.7 (1.7)	10.5 (1.2)	17.9 (1.3)	12.8 (1.0)	11.8 (0.7)	8.4 (0.5)
24	0.1 (0.1)	0.1 (0.0)	17.2 (1.8)	12.3 (1.3)	21.9 (1.5)	15.7 (1.1)	14.7 (1.0)	10.5 (0.7)
25	0.2 (0.0)							
26	0.2 (0.0)	0.1 (0.0)	16.6 (3.4)	11.8 (2.4)	16.7 (3.5)	11.9 (2.5)	17.0 (1.2)	12.2 (0.9)
27	0.1 (0.1)	0.1 (0.1)	16.5 (1.3)	11.8 (1.0)	15.7 (1.5)	11.3 (1.1)	17.8 (1.0)	12.7 (0.7)
28	0.0 (0.0)	0.0 (0.0)	12.7 (4.4)	9.1 (3.1)	14.8 (4.6)	10.6 (3.3)	14.4 (3.9)	10.3 (2.8)
29	0.1 (0.1)	0.1 (0.0)	16.7 (1.6)	12.0 (1.1)	22.7 (1.4)	16.2 (1.0)	20.3 (1.5)	14.6 (1.1)
30	0.1 (0.0)	0.1 (0.0)	16.9 (2.1)	12.1 (1.5)	15.5 (5.5)	11.1 (3.9)	19.7 (3.1)	
31	0.1 (0.1)	0.0 (0.1)	16.6 (1.8)	11.9 (1.3)	14.6 (3.4)	10.4 (2.5)	17.8 (2.0)	12.6 (1.5)
Avg	0.1	0.1	16.6	11.8	16.2	11.6	14.6	10.3
n	31	23	27	26	27	27	27	26
SD	0.1	0	2.7	1.9	2.8	2	3.1	2.1
Min	0.0	0.0	11.2	8.0	9.6	6.8	9.9	7.0
Max	0.2	0.2	22.9	16.4	22.7	16.2	20.3	14.6

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for February, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.0 (0.0)	0.0 (0.0)	15.8 (2.2)	11.3 (1.6)	17.8 (1.6)	12.7 (1.1)	17.1 (1.9)	12.2 (1.3)
2	0.0 (0.1)	0.0 (0.1)	16.6 (2.6)	11.9 (1.8)	20.4 (1.7)	14.6 (1.2)	14.6 (4.4)	10.4 (3.1)
3	0.0 (0.0)	0.0 (0.0)	14.6 (1.7)	10.4 (1.2)	15.0 (4.0)	10.7 (2.9)	11.0 (1.9)	7.9 (1.3)
4	0.0 (0.1)	0.0 (0.0)	12.4 (2.9)	8.9 (2.1)	12.0 (0.7)	8.6 (0.5)	12.6 (1.1)	9.0 (0.8)
5	-0.1 (0.0)		13.9 (1.5)	9.9 (1.1)	13.5 (1.8)	9.6 (1.3)	16.0 (3.1)	11.4 (2.2)
6	0.0 (0.1)		16.4 (1.6)	11.7 (1.1)	17.3 (1.4)	12.4 (1.0)	20.4 (2.3)	14.5 (1.7)
7	0.1 (0.1)	0.1 (0.1)	16.0 (4.1)	11.5 (3.0)	16.8 (4.3)	12.0 (3.1)	18.5 (5.2)	13.2 (3.7)
8	0.1 (0.1)	0.0 (0.0)	16.6 (5.2)	11.8 (3.7)	15.9 (5.8)	11.4 (4.2)	17.7 (6.1)	12.6 (4.4)
9	0.2 (0.2)	0.2 (0.1)	15.6 (7.3)	11.1 (5.2)	18.8 (5.5)	13.4 (4.0)	18.7 (5.8)	13.4 (4.1)
10	0.1 (0.1)	0.1 (0.0)	11.5 (2.3)	8.2 (1.6)	15.1 (7.2)	10.8 (5.2)	16.6 (4.1)	12.0 (3.0)
11	-0.1 (0.1)	0.0 (0.1)	9.2 (2.7)	6.6 (1.9)	9.7 (3.0)	6.9 (2.1)	10.3 (5.3)	7.4 (3.8)
12	0.0 (0.1)	0.0 (0.0)	9.7 (2.2)	7.0 (1.6)	10.4 (4.2)	7.4 (3.0)	8.7 (2.4)	6.2 (1.7)
13	0.0 (0.1)	0.0 (0.1)	13.3 (3.2)	9.5 (2.3)	15.1 (4.6)	10.8 (3.3)	14.7 (3.7)	10.5 (2.6)
14	0.1 (0.0)	0.1 (0.0)	16.8 (1.2)	12.0 (0.9)	20.5 (1.0)	14.7 (0.7)	21.4 (1.3)	15.3 (0.9)
15	0.4 (0.1)	0.3 (0.1)	19.4 (1.6)	13.8 (1.1)	20.0 (1.0)	14.3 (0.7)	23.9 (2.0)	17.1 (1.4)
16	0.2 (0.1)	0.2 (0.1)	16.1 (4.5)	11.5 (3.2)	20.2 (0.7)	14.5 (0.5)	21.9 (5.8)	15.7 (4.1)
17	0.1 (0.0)		12.0 (1.7)	8.6 (1.2)	15.7 (3.0)	11.2 (2.2)	16.5 (2.1)	11.8 (1.5)
18	0.0 (0.1)	0.0 (0.1)	8.6 (1.6)	6.2 (1.1)	12.5 (1.9)	9.0 (1.4)	12.7 (3.6)	9.1 (2.6)
19	-0.1 (0.0)	-0.1 (0.0)	8.2 (1.3)	5.9 (1.0)	10.1 (1.8)	7.2 (1.3)	8.5 (0.5)	6.1 (0.4)
20	0.0 (0.0)							
21	0.1 (0.1)		15.2 (2.9)	10.9 (2.1)	13.8 (1.8)	9.9 (1.3)	14.8 (2.7)	10.5 (1.9)
22	0.0 (0.0)	0.0 (0.0)	12.8 (2.1)	9.2 (1.5)	13.2 (2.1)	9.5 (1.5)	13.5 (1.7)	9.7 (1.2)
23	0.0 (0.0)		16.7 (3.2)	11.9 (2.3)	16.5 (1.2)	11.8 (0.9)	17.7 (1.9)	12.6 (1.4)
24	0.0 (0.1)		16.0 (1.9)	11.4 (1.3)	13.9 (3.1)	9.9 (2.2)	19.1 (2.0)	13.7 (1.4)
25	0.0 (0.0)		16.2 (2.0)	11.6 (1.4)	13.5 (1.2)	9.7 (0.8)	16.4 (5.1)	11.7 (3.7)
26	-0.1 (0.1)	0.0 (0.0)	15.0 (2.1)	10.7 (1.5)	13.0 (1.4)	9.3 (1.0)	12.6 (1.7)	9.0 (1.2)
27	0.0 (0.0)	0.0 (0.0)						
28	0.1 (0.1)	0.1 (0.1)	13.6 (2.4)	9.7 (1.7)	13.8 (2.4)	9.9 (1.7)	13.3 (2.5)	9.5 (1.8)
Avg	0.1	0	14.2	10.1	15.2	10.9	15.7	11.2
n	28	20	26	26	26	26	26	26
SD	0.1	0.1	2.8	2	3.1	2.2	3.9	2.8
Min	-0.1	-0.1	8.2	5.9	9.7	6.9	8.5	6.1
Max	0.4	0.3	19.4	13.8	20.5	14.7	23.9	17.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for March, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.3 (0.0)	0.2 (0.0)	19.8 (1.2)	14.1 (0.8)	17.1 (1.1)	12.3 (0.8)	19.0 (1.3)	13.6 (0.9)
2	0.1 (0.1)	0.1 (0.1)	19.5 (1.4)	13.9 (1.0)	16.1 (1.3)	11.5 (1.0)	20.4 (1.9)	14.6 (1.4)
3	0.1 (0.1)		18.4 (1.0)	13.1 (0.7)	13.3 (1.9)	9.5 (1.4)	22.1 (1.2)	15.8 (0.9)
4	0.1 (0.0)		19.0 (3.3)	13.6 (2.4)	13.6 (1.8)	9.7 (1.3)	23.5 (2.4)	16.8 (1.7)
5	0.0 (0.1)	0.0 (0.0)	15.1 (5.6)	10.8 (4.0)	12.7 (1.9)	9.1 (1.4)	16.9 (6.9)	12.1 (4.9)
6	-0.1 (0.1)	-0.1 (0.0)	9.9 (3.2)	7.1 (2.3)	10.0 (3.8)	7.2 (2.7)	10.3 (3.7)	7.4 (2.7)
7	-0.1 (0.0)	-0.1 (0.0)	9.1 (3.1)	6.5 (2.2)	8.1 (3.8)	5.8 (2.7)	9.0 (2.7)	6.4 (1.9)
8	0.0 (0.0)	0.0 (0.0)						
9	-0.1 (0.1)	-0.1 (0.1)	8.0 (3.7)	5.7 (2.7)	6.4 (3.0)	4.6 (2.2)	8.2 (3.7)	5.9 (2.7)
10	0.0 (0.1)	0.0 (0.1)	11.4 (2.1)	8.1 (1.5)	9.5 (3.7)	6.8 (2.6)	11.6 (2.5)	8.3 (1.8)
11	-0.1 (0.0)	-0.1 (0.0)	8.6 (3.4)	6.2 (2.5)	6.3 (2.8)	4.5 (2.0)	8.2 (3.3)	5.9 (2.4)
12	0.2 (0.1)	0.1 (0.1)	10.9 (1.7)	7.8 (1.2)	9.8 (2.0)	7.0 (1.5)	10.4 (1.5)	7.4 (1.1)
13	0.3 (0.1)	0.2 (0.0)	14.8 (2.3)	10.6 (1.7)	16.4 (2.0)	11.7 (1.5)	14.0 (1.6)	10.0 (1.2)
14	0.3 (0.1)	0.2 (0.0)	16.7 (1.5)	11.9 (1.1)	17.3 (1.6)	12.4 (1.1)	15.7 (0.9)	11.2 (0.7)
15	0.2 (0.0)	0.1 (0.0)	14.3 (1.4)	10.2 (1.0)	16.1 (1.3)	11.5 (0.9)	14.8 (1.0)	10.6 (0.7)
16	0.2 (0.1)	0.2 (0.1)	14.6 (2.1)	10.5 (1.5)	16.1 (1.6)	11.6 (1.2)	15.3 (1.6)	11.0 (1.1)
17	0.1 (0.0)	0.1 (0.0)	14.2 (1.9)	10.2 (1.4)	13.4 (2.4)	9.6 (1.7)	14.6 (1.2)	10.4 (0.9)
18	0.1 (0.0)	0.1 (0.0)	13.8 (1.8)	9.9 (1.3)	12.1 (3.4)	8.7 (2.5)	12.9 (4.3)	9.2 (3.1)
19	-0.1 (0.1)	-0.1 (0.0)	10.7 (5.1)	7.6 (3.6)	9.8 (5.0)	7.0 (3.6)	10.7 (5.0)	7.7 (3.6)
20	0.3 (0.1)	0.2 (0.1)	9.7 (1.1)	6.9 (0.8)	10.7 (2.1)	7.7 (1.5)	11.8 (1.9)	8.4 (1.4)
21	0.3 (0.1)	0.2 (0.0)	11.2 (1.3)	8.0 (0.9)	14.0 (2.6)	10.0 (1.9)	15.3 (2.7)	10.9 (1.9)
22	0.0 (0.1)	0.0 (0.0)			12.8 (3.8)	9.1 (2.7)	15.7 (3.6)	11.2 (2.6)
23	0.2 (0.2)	0.2 (0.1)	11.2 (2.9)	8.0 (2.1)	11.5 (5.0)	8.2 (3.6)	12.5 (4.6)	9.0 (3.3)
24	0.3 (0.1)	0.2 (0.1)	12.0 (1.7)	8.6 (1.2)	11.4 (3.2)	8.1 (2.3)	11.1 (1.3)	7.9 (1.0)
25	0.2 (0.1)	0.1 (0.0)	11.8 (1.1)	8.4 (0.8)	11.9 (1.6)	8.5 (1.1)	12.8 (1.2)	9.1 (0.8)
26	0.0 (0.0)	0.0 (0.0)	9.8 (2.0)	7.0 (1.4)	9.0 (1.8)	6.5 (1.3)	9.7 (2.5)	7.0 (1.8)
27	0.0 (0.1)	0.0 (0.0)	8.5 (1.9)	6.1 (1.4)	7.0 (1.3)	5.1 (1.0)	8.2 (0.9)	5.9 (0.6)
28	-0.1 (0.0)	-0.1 (0.0)	8.3 (1.7)	6.0 (1.3)	5.2 (1.6)	3.7 (1.2)	7.3 (1.2)	5.3 (0.9)
29	-0.1 (0.0)	-0.1 (0.0)	6.5 (3.2)	4.7 (2.3)	5.1 (2.3)	3.7 (1.7)	6.1 (2.1)	4.4 (1.5)
30	-0.1 (0.1)	0.0 (0.0)	10.2 (1.6)	7.3 (1.1)	11.1 (3.2)	8.0 (2.3)	9.6 (1.5)	6.9 (1.1)
31	0.0 (0.1)	0.0 (0.0)	9.9 (2.7)	7.1 (1.9)	9.8 (5.3)	7.0 (3.8)	9.6 (2.7)	6.8 (1.9)
Avg	0.1	0.1	12.3	8.8	11.5	8.2	12.9	9.2
n	31	29	29	29	30	30	30	30
SD	0.2	0.1	3.6	2.6	3.5	2.5	4.3	3.1
Min	-0.1	-0.1	6.5	4.7	5.1	3.7	6.1	4.4
Max	0.3	0.2	19.8	14.1	17.3	12.4	23.5	16.8

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for April, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.0 (0.1)	0.0 (0.0)	9.8 (1.4)	7.0 (1.0)	8.0 (1.4)	5.7 (1.0)	9.2 (1.0)	6.6 (0.7)
2	0.0 (0.0)	0.0 (0.0)	9.2 (2.1)	6.6 (1.5)	7.7 (1.1)	5.6 (0.8)	8.9 (1.4)	6.4 (1.0)
3	-0.1 (0.1)	-0.1 (0.1)	5.6 (1.7)	4.0 (1.2)	4.5 (1.3)	3.2 (1.0)	4.7 (2.2)	3.4 (1.6)
4	-0.1 (0.1)	-0.1 (0.0)	8.2 (2.9)	5.8 (2.0)	8.6 (3.0)	6.2 (2.2)	7.8 (1.8)	5.6 (1.3)
5	-0.2 (0.1)	-0.1 (0.0)	6.2 (3.4)	4.5 (2.5)	7.2 (4.3)	5.1 (3.1)	7.1 (4.2)	5.1 (3.0)
6	-0.2 (0.0)	-0.1 (0.0)	5.1 (2.0)	3.7 (1.5)	5.0 (2.1)	3.6 (1.5)	5.9 (1.9)	4.2 (1.3)
7	-0.1 (0.1)	0.0 (0.1)	10.1 (1.3)	7.2 (0.9)	12.4 (1.8)	8.9 (1.3)	10.2 (1.1)	7.3 (0.8)
8	-0.1 (0.0)	-0.1 (0.0)	10.0 (1.9)	7.2 (1.3)	11.0 (3.0)	7.9 (2.1)	10.2 (1.8)	7.3 (1.3)
9	-0.1 (0.1)	-0.1 (0.0)	7.8 (1.9)	5.6 (1.4)	7.6 (2.6)	5.5 (1.8)	8.0 (1.8)	5.7 (1.3)
10	-0.2 (0.0)	-0.1 (0.0)	6.2 (3.4)	4.4 (2.4)	5.6 (2.5)	4.0 (1.8)	6.3 (2.6)	4.5 (1.9)
11	-0.1 (0.1)	0.0 (0.1)	7.5 (2.3)	5.4 (1.7)	6.3 (2.2)	4.5 (1.6)	8.0 (1.5)	5.8 (1.1)
12	0.0 (0.1)	0.0 (0.0)	10.3 (1.6)	7.3 (1.2)	11.1 (3.3)	7.9 (2.4)	9.7 (1.0)	6.9 (0.7)
13	-0.1 (0.0)	-0.1 (0.0)	11.2 (2.6)	8.0 (1.8)	11.4 (3.2)	8.2 (2.3)	9.7 (1.1)	7.0 (0.8)
14	0.0 (0.1)	0.0 (0.1)	8.9 (1.1)	6.4 (0.8)	7.5 (0.6)	5.4 (0.5)	9.1 (1.1)	6.6 (0.8)
15	0.0 (0.0)	0.0 (0.0)	9.5 (1.7)	6.8 (1.2)	8.4 (1.8)	6.1 (1.3)	9.9 (1.5)	7.1 (1.1)
16	0.2 (0.1)	0.1 (0.1)	9.6 (2.6)	6.9 (1.9)	9.8 (2.0)	7.0 (1.5)	9.5 (1.8)	6.8 (1.3)
17	0.0 (0.1)	0.0 (0.0)	8.7 (2.7)	6.2 (1.9)	10.2 (3.6)	7.3 (2.6)	8.7 (2.0)	6.2 (1.4)
18	-0.1 (0.1)	-0.1 (0.1)	6.9 (3.8)	5.0 (2.7)	7.6 (4.7)	5.4 (3.4)	6.8 (2.8)	4.8 (2.0)
19	-0.1 (0.0)	-0.1 (0.0)	6.9 (2.7)	4.9 (1.9)	7.1 (4.0)	5.1 (2.8)	7.2 (2.2)	5.1 (1.6)
20	-0.1 (0.1)	-0.1 (0.0)	5.9 (1.7)	4.2 (1.3)	5.1 (1.6)	3.7 (1.2)	6.1 (1.9)	4.4 (1.4)
21	0.1 (0.1)	0.0 (0.1)	6.7 (2.2)	4.8 (1.6)	5.1 (2.6)	3.6 (1.9)	7.2 (2.1)	5.1 (1.5)
22	-0.1 (0.0)	-0.1 (0.0)	9.6 (2.2)	6.9 (1.6)	7.4 (2.4)	5.3 (1.7)	8.4 (2.8)	6.0 (2.0)
23	-0.1 (0.1)	0.0 (0.0)	8.4 (5.4)	6.0 (3.9)	6.5 (4.2)	4.7 (3.0)	7.8 (5.1)	5.5 (3.6)
24	0.0 (0.0)	0.0 (0.0)	8.0 (4.7)	5.7 (3.4)	6.3 (4.6)	4.5 (3.3)	6.0 (3.7)	4.3 (2.7)
25	-0.1 (0.1)	-0.1 (0.0)	4.1 (2.7)	2.9 (1.9)	3.0 (1.2)	2.2 (0.9)	3.2 (1.6)	2.3 (1.2)
26	-0.2 (0.1)	-0.1 (0.0)	4.5 (2.7)	3.3 (1.9)	3.4 (1.8)	2.4 (1.3)	3.4 (1.8)	2.5 (1.3)
27	-0.1 (0.0)	-0.1 (0.0)	5.4 (3.4)	3.8 (2.4)	4.6 (2.6)	3.3 (1.9)	4.2 (2.4)	3.0 (1.7)
28	-0.2 (0.1)	-0.1 (0.0)	5.7 (3.3)	4.1 (2.4)	5.0 (3.3)	3.5 (2.4)	5.1 (2.9)	3.7 (2.1)
29	-0.1 (0.1)	-0.1 (0.0)	6.0 (3.1)	4.3 (2.2)	4.8 (2.6)	3.5 (1.9)	5.2 (2.6)	3.7 (1.9)
30	0.1 (0.2)	0.1 (0.1)	6.6 (2.6)	4.8 (1.9)	5.8 (2.7)	4.2 (1.9)	6.4 (2.5)	4.6 (1.8)
Avg	-0.1	0	7.6	5.5	7.2	5.1	7.3	5.2
n	30	30	30	30	30	30	30	30
SD	0.1	0.1	1.9	1.4	2.4	1.7	2	1.4
Min	-0.2	-0.1	4.1	2.9	3.0	2.2	3.2	2.3
Max	0.2	0.1	11.2	8.0	12.4	8.9	10.2	7.3

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for May, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	-0.1 (0.0)	-0.1 (0.0)	4.7 (2.6)	3.4 (1.9)	4.0 (1.8)	2.9 (1.3)	3.9 (2.1)	2.8 (1.5)
2	-0.2 (0.1)	-0.1 (0.0)	4.5 (2.5)	3.3 (1.8)	3.3 (1.4)	2.4 (1.0)	3.5 (1.4)	2.5 (1.0)
3	-0.2 (0.0)	-0.1 (0.0)						
4	-0.2 (0.1)	-0.1 (0.0)	4.7 (2.5)	3.3 (1.8)	3.3 (1.2)	2.3 (0.8)	3.6 (1.3)	2.6 (0.9)
5	-0.1 (0.1)	-0.1 (0.0)	7.2 (2.1)	5.2 (1.5)	5.2 (2.1)	3.7 (1.5)	5.4 (1.9)	3.9 (1.4)
6	-0.1 (0.0)	-0.1 (0.0)	5.3 (2.9)	3.9 (2.1)	3.3 (0.9)	2.3 (0.7)	3.4 (1.5)	2.5 (1.1)
7	-0.1 (0.0)	-0.1 (0.0)	6.5 (3.1)	4.7 (2.2)	4.7 (1.6)	3.4 (1.2)	4.3 (1.4)	3.1 (1.0)
8	-0.1 (0.0)	-0.1 (0.0)	8.3 (3.1)	6.0 (2.3)	3.9 (1.7)	2.8 (1.3)	3.5 (2.2)	2.5 (1.6)
9	-0.2 (0.0)	-0.1 (0.0)	7.2 (4.9)	5.2 (3.6)	3.1 (1.2)	2.2 (0.8)	2.4 (0.9)	1.8 (0.7)
10	-0.1 (0.1)	-0.1 (0.1)	8.9 (3.0)	6.4 (2.2)	5.0 (1.9)	3.6 (1.3)	4.3 (1.6)	3.1 (1.2)
11	0.4 (0.1)	0.3 (0.1)	5.8 (4.2)	4.2 (3.0)	9.6 (2.8)	6.9 (2.0)	8.2 (1.3)	5.9 (0.9)
12	0.0 (0.1)	0.0 (0.1)	1.9 (0.6)	1.4 (0.4)	9.4 (5.4)	6.8 (3.8)	7.4 (3.0)	5.3 (2.1)
13	0.3 (0.2)	0.2 (0.1)	3.0 (1.0)	2.1 (0.7)	8.5 (4.8)	6.1 (3.4)	7.0 (2.8)	5.0 (2.0)
14	-0.1 (0.1)	-0.1 (0.0)	3.1 (1.2)	2.2 (0.9)	6.6 (3.2)	4.7 (2.3)	6.3 (2.4)	4.5 (1.7)
15	-0.1 (0.1)	0.0 (0.0)	3.1 (0.9)	2.2 (0.7)	4.1 (2.9)	2.9 (2.1)	4.6 (1.7)	3.3 (1.2)
16	-0.1 (0.0)	-0.1 (0.0)						
17	-0.1 (0.1)	0.0 (0.1)			5.2 (1.3)	3.7 (0.9)		
18	0.2 (0.1)	0.2 (0.0)			4.5 (0.5)	3.2 (0.4)	10.0 (2.1)	7.1 (1.5)
19	0.1 (0.1)	0.1 (0.0)			3.4 (0.9)	2.4 (0.6)	5.7 (2.0)	4.1 (1.4)
20	0.2 (0.1)	0.1 (0.1)			2.8 (1.2)	2.0 (0.9)	5.2 (2.3)	3.7 (1.7)
21	0.1 (0.2)	0.1 (0.1)			2.8 (1.1)	2.0 (0.8)	3.8 (1.5)	2.7 (1.1)
22	0.4 (0.5)	0.3 (0.4)			2.9 (1.4)	2.1 (1.0)	3.9 (1.8)	2.8 (1.3)
23	-0.1 (0.1)	-0.1 (0.1)	5.5 (3.5)	3.9 (2.5)	2.7 (1.2)	1.9 (0.8)	3.6 (1.6)	2.6 (1.2)
24	-0.2 (0.0)	-0.1 (0.0)	5.0 (2.6)	3.6 (1.9)				
25	-0.2 (0.1)	-0.1 (0.1)	5.6 (3.0)	4.0 (2.2)				
26	0.0 (0.3)	0.0 (0.2)	4.7 (2.2)	3.4 (1.6)				
27	0.6 (0.6)	0.4 (0.4)	5.2 (3.0)	3.7 (2.1)				
28	0.0 (0.1)	0.0 (0.1)	6.2 (2.4)	4.5 (1.7)				
29	0.0 (0.1)	0.0 (0.1)	5.5 (3.0)	4.0 (2.2)				
30	0.2 (0.2)	0.2 (0.1)						
31	0.0 (0.2)	0.0 (0.1)	4.0 (3.0)	2.9 (2.2)	3.9 (3.2)	2.8 (2.3)	3.9 (2.3)	2.8 (1.6)
Avg	0	0	5.3	3.8	4.6	3.3	4.9	3.5
n	31	31	22	22	22	22	21	21
SD	0.2	0.1	1.7	1.2	2.1	1.5	1.8	1.3
Min	-0.2	-0.1	1.9	1.4	2.7	1.9	2.4	1.8
Max	0.6	0.4	8.9	6.4	9.6	6.9	10.0	7.1

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for June, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.1 (0.2)	0.1 (0.1)	3.9 (2.0)	2.8 (1.5)	4.0 (2.6)	2.9 (1.8)	4.4 (2.2)	3.2 (1.6)
2	-0.2 (0.1)	-0.1 (0.0)	3.2 (1.9)	2.3 (1.4)	3.9 (1.9)	2.8 (1.4)	3.9 (2.1)	2.8 (1.5)
3	-0.1 (0.1)	-0.1 (0.0)	2.8 (1.9)	2.0 (1.3)	4.3 (2.8)	3.1 (2.0)	4.4 (2.2)	3.1 (1.6)
4	-0.1 (0.1)	-0.1 (0.0)	3.4 (1.9)	2.4 (1.4)	4.3 (2.5)	3.1 (1.8)	5.4 (2.7)	3.9 (1.9)
5	-0.1 (0.1)	-0.1 (0.1)	3.7 (1.6)	2.7 (1.1)	4.1 (2.0)	3.0 (1.5)	4.3 (3.7)	3.1 (2.7)
6	0.3 (0.1)	0.2 (0.0)	6.6 (0.5)	4.8 (0.4)	7.0 (1.0)	5.0 (0.7)	6.7 (1.1)	4.8 (0.8)
7	0.5 (0.2)	0.3 (0.1)	5.1 (1.8)	3.7 (1.3)	4.5 (1.6)	3.3 (1.2)	5.6 (1.3)	4.1 (1.0)
8	-0.1 (0.1)	0.0 (0.0)	3.9 (2.4)	2.8 (1.7)	3.3 (2.0)	2.4 (1.5)	4.5 (2.2)	3.2 (1.6)
9	-0.1 (0.0)	-0.1 (0.0)	4.1 (2.1)	2.9 (1.5)	3.3 (1.7)	2.4 (1.2)	4.5 (1.8)	3.3 (1.3)
10	-0.1 (0.0)	-0.1 (0.0)	4.7 (2.4)	3.4 (1.7)	3.7 (2.2)	2.7 (1.6)	5.3 (1.7)	3.8 (1.3)
11	-0.1 (0.0)	-0.1 (0.0)	3.7 (2.3)	2.7 (1.6)	2.8 (1.6)	2.0 (1.2)	3.6 (1.8)	2.6 (1.3)
12	-0.2 (0.1)	-0.1 (0.0)	3.6 (2.5)	2.6 (1.8)	2.7 (1.8)	2.0 (1.3)	3.2 (1.2)	2.3 (0.9)
13	-0.1 (0.1)	-0.1 (0.0)	3.0 (2.0)	2.2 (1.4)	2.2 (1.3)	1.6 (0.9)	3.8 (2.1)	2.7 (1.5)
14	0.0 (0.0)	0.0 (0.0)	3.5 (2.1)	2.6 (1.5)	3.2 (1.6)	2.3 (1.1)	4.1 (1.9)	3.0 (1.3)
15	0.0 (0.1)	0.0 (0.1)	4.4 (2.4)	3.2 (1.7)	3.4 (1.8)	2.5 (1.3)	4.9 (2.1)	3.5 (1.5)
16	0.2 (0.1)	0.2 (0.1)	7.6 (1.2)	5.4 (0.8)	4.8 (0.7)	3.5 (0.5)	6.7 (0.2)	4.8 (0.2)
17	0.1 (0.2)	0.1 (0.1)	5.5 (2.4)	4.0 (1.8)	3.8 (1.3)	2.7 (0.9)	5.5 (1.2)	4.0 (0.8)
18	-0.1 (0.1)	-0.1 (0.0)	4.2 (2.7)	3.0 (2.0)	2.8 (1.7)	2.0 (1.2)	4.3 (1.9)	3.1 (1.3)
19	-0.1 (0.0)	0.0 (0.0)	3.2 (1.2)	2.3 (0.9)	2.0 (1.0)	1.4 (0.7)	3.8 (1.9)	2.7 (1.4)
20	-0.1 (0.1)	-0.1 (0.0)	2.5 (1.2)	1.8 (0.9)	1.7 (0.7)	1.2 (0.5)	2.7 (1.6)	2.0 (1.1)
21	0.1 (0.3)	0.1 (0.2)	3.0 (1.3)	2.1 (0.9)	1.5 (0.7)	1.1 (0.5)	3.1 (1.4)	2.2 (1.0)
22	0.2 (0.2)	0.1 (0.2)	6.0 (2.9)	4.3 (2.1)	3.4 (1.9)	2.4 (1.4)	4.6 (2.2)	3.3 (1.6)
23	0.3 (0.2)	0.2 (0.1)	5.2 (3.2)	3.8 (2.3)	3.1 (1.9)	2.3 (1.4)	4.7 (1.7)	3.3 (1.2)
24	-0.1 (0.1)	-0.1 (0.0)	4.5 (2.9)	3.2 (2.1)	3.2 (1.8)	2.3 (1.3)	4.2 (2.3)	3.0 (1.7)
25	0.1 (0.1)	0.1 (0.1)	4.4 (2.6)	3.2 (1.9)	2.7 (1.9)	2.0 (1.3)	4.1 (2.1)	2.9 (1.5)
26	-0.1 (0.1)	-0.1 (0.0)	3.7 (2.0)	2.7 (1.4)	2.6 (0.9)	1.9 (0.6)	4.7 (1.9)	3.4 (1.4)
27	0.5 (0.2)	0.4 (0.2)			2.9 (1.1)	2.1 (0.8)		
28	0.4 (0.5)	0.3 (0.4)	4.1 (2.9)	3.0 (2.1)	3.2 (1.9)	2.3 (1.4)	4.3 (2.6)	3.1 (1.9)
29	-0.1 (0.0)	-0.1 (0.0)	3.4 (2.1)	2.5 (1.5)	3.0 (1.7)	2.1 (1.3)	3.8 (2.3)	2.7 (1.7)
30	0.0 (0.1)	0.0 (0.0)						
Avg	0	0	4.2	3	3.4	2.4	4.5	3.2
n	30	30	28	28	29	29	28	28
SD	0.2	0.1	1.2	0.8	1.1	0.8	0.9	0.7
Min	-0.2	-0.1	2.5	1.8	1.5	1.1	2.7	2.0
Max	0.5	0.4	7.6	5.4	7.0	5.0	6.7	4.8

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for July, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.1 (0.1)	0.1 (0.1)	3.6 (2.6)	2.6 (1.9)	4.2 (2.7)	3.0 (2.0)	3.8 (2.7)	2.8 (1.9)
2	0.1 (0.1)	0.1 (0.0)	2.9 (2.0)	2.2 (1.5)	3.5 (2.0)	2.6 (1.5)	4.5 (2.5)	3.3 (1.8)
3	0.1 (0.2)	0.1 (0.1)	4.0 (1.8)	2.9 (1.3)	4.8 (2.2)	3.4 (1.6)	5.0 (2.3)	3.6 (1.6)
4	0.0 (0.1)	0.0 (0.1)	4.0 (2.1)	2.9 (1.5)	5.7 (3.3)	4.1 (2.4)	5.2 (2.9)	3.7 (2.1)
5	-0.1 (0.0)	-0.1 (0.0)	2.9 (1.7)	2.1 (1.2)	4.0 (2.1)	2.9 (1.5)	3.7 (2.2)	2.7 (1.6)
6	0.3 (0.3)	0.2 (0.2)	4.2 (0.6)	3.1 (0.4)	4.3 (1.1)	3.1 (0.8)	5.7 (1.0)	4.1 (0.7)
7	0.1 (0.1)	0.1 (0.1)	3.8 (1.6)	2.7 (1.1)	4.2 (1.6)	3.1 (1.2)	3.9 (1.5)	2.8 (1.1)
8	0.2 (0.1)	0.1 (0.1)	3.8 (2.0)	2.7 (1.4)	4.2 (2.2)	3.1 (1.6)	4.0 (1.6)	2.9 (1.2)
9	0.3 (0.0)	0.2 (0.0)	4.5 (0.8)	3.2 (0.6)	3.9 (0.9)	2.8 (0.7)	4.6 (0.7)	3.3 (0.5)
10	0.5 (0.2)	0.3 (0.2)	5.0 (2.5)	3.6 (1.8)	5.1 (2.5)	3.6 (1.8)	3.8 (1.4)	2.7 (1.0)
11	0.0 (0.1)	0.0 (0.1)	5.1 (2.3)	3.6 (1.6)	5.0 (2.5)	3.6 (1.8)	4.1 (0.9)	2.9 (0.7)
12	-0.1 (0.0)	-0.1 (0.0)	2.4 (1.5)	1.7 (1.1)	2.7 (1.4)	1.9 (1.0)	2.5 (1.3)	1.8 (0.9)
13	0.1 (0.1)	0.1 (0.1)	5.0 (1.1)	3.6 (0.8)	4.5 (1.2)	3.2 (0.9)	5.6 (1.0)	4.0 (0.7)
14	0.3 (0.2)	0.2 (0.2)	3.9 (1.6)	2.8 (1.2)	4.5 (2.3)	3.2 (1.7)	4.4 (1.5)	3.1 (1.1)
15	0.1 (0.2)	0.1 (0.1)	3.6 (2.3)	2.6 (1.6)	3.9 (2.4)	2.8 (1.7)	3.7 (1.9)	2.7 (1.4)
16	0.0 (0.1)	0.0 (0.0)	3.8 (1.7)	2.7 (1.2)	3.1 (1.4)	2.2 (1.0)	4.1 (1.7)	2.9 (1.2)
17	0.0 (0.0)	0.0 (0.0)	3.6 (1.6)	2.6 (1.2)	3.1 (1.1)	2.2 (0.8)	3.3 (1.5)	2.4 (1.0)
18	0.1 (0.1)	0.0 (0.1)	3.4 (1.4)	2.4 (1.0)	2.6 (1.0)	1.9 (0.7)	3.6 (1.3)	2.6 (0.9)
19	0.2 (0.1)	0.2 (0.1)	3.4 (1.6)	2.4 (1.1)	3.0 (1.2)	2.1 (0.9)	4.0 (1.5)	2.9 (1.1)
20	0.0 (0.0)	0.0 (0.0)	4.0 (1.5)	2.9 (1.1)	3.4 (0.9)	2.4 (0.7)	4.7 (1.2)	3.4 (0.9)
21	0.0 (0.0)	0.0 (0.0)	4.5 (2.4)	3.2 (1.7)	4.3 (2.3)	3.1 (1.7)	4.5 (2.0)	3.2 (1.4)
22	0.2 (0.1)	0.1 (0.1)	5.1 (2.6)	3.7 (1.9)	4.3 (2.3)	3.1 (1.7)	5.3 (2.3)	3.8 (1.6)
23	0.0 (0.1)	0.0 (0.1)	4.3 (1.7)	3.1 (1.2)	2.6 (0.8)	1.8 (0.6)	4.4 (1.7)	3.2 (1.2)
24	-0.1 (0.1)	-0.1 (0.1)	3.7 (1.4)	2.7 (1.0)	2.5 (0.8)	1.8 (0.5)	4.1 (1.3)	3.0 (0.9)
25	0.0 (0.1)	0.0 (0.0)	2.9 (2.1)	2.1 (1.5)	2.0 (1.3)	1.5 (0.9)	2.7 (1.8)	1.9 (1.3)
26	0.0 (0.1)	0.0 (0.0)	2.6 (1.6)	1.8 (1.2)	2.0 (0.5)	1.4 (0.4)	2.8 (1.7)	2.1 (1.2)
27	-0.1 (0.1)	0.0 (0.0)	4.0 (1.9)	2.9 (1.3)	2.9 (0.9)	2.1 (0.7)	3.1 (1.7)	2.2 (1.3)
28	-0.1 (0.1)	-0.1 (0.0)	4.2 (2.0)	3.0 (1.4)	2.7 (1.2)	2.0 (0.9)	2.7 (1.4)	2.0 (1.0)
29	-0.1 (0.0)	-0.1 (0.0)	3.8 (1.7)	2.8 (1.2)	2.3 (0.4)	1.7 (0.3)	3.1 (1.3)	2.2 (0.9)
30	-0.1 (0.1)	-0.1 (0.0)	3.9 (2.2)	2.9 (1.6)	2.3 (0.7)	1.7 (0.5)	3.1 (1.4)	2.2 (1.0)
31	-0.1 (0.0)	-0.1 (0.0)	3.9 (2.0)	2.8 (1.5)	2.2 (0.9)	1.6 (0.7)	3.5 (1.6)	2.5 (1.1)
Avg	0.1	0	3.9	2.8	3.5	2.5	4	2.9
n	31	31	31	31	31	31	31	31
SD	0.1	0.1	0.7	0.5	1	0.7	0.8	0.6
Min	-0.1	-0.1	2.4	1.7	2.0	1.4	2.5	1.8
Max	0.5	0.3	5.1	3.7	5.7	4.1	5.7	4.1

US EPA ARCHIVE DOCUMENT

Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for August, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	-0.1 (0.1)	-0.1 (0.0)	3.2 (1.9)	2.3 (1.4)	2.6 (0.9)	1.9 (0.6)	3.4 (1.6)	2.5 (1.2)
2	0.0 (0.0)	0.0 (0.0)	3.9 (1.3)	2.8 (0.9)	3.5 (0.4)	2.5 (0.3)	4.4 (1.3)	3.2 (0.9)
3	-0.1 (0.0)	0.0 (0.0)	3.7 (1.3)	2.6 (0.9)	3.3 (0.7)	2.3 (0.5)	4.8 (2.1)	3.5 (1.5)
4	-0.1 (0.0)	0.0 (0.0)	2.6 (1.3)	1.9 (0.9)	3.1 (1.5)	2.2 (1.1)	3.8 (1.8)	2.7 (1.3)
5	-0.1 (0.0)	-0.1 (0.0)	2.5 (1.2)	1.8 (0.9)	2.3 (0.5)	1.6 (0.4)	4.9 (1.6)	3.5 (1.1)
6	0.0 (0.1)	0.0 (0.1)	2.5 (1.3)	1.8 (1.0)	2.2 (0.8)	1.6 (0.6)	4.1 (1.8)	3.0 (1.3)
7	0.2 (0.2)	0.2 (0.1)	3.6 (1.8)	2.6 (1.3)	2.5 (1.3)	1.8 (0.9)	3.3 (1.4)	2.4 (1.0)
8	-0.1 (0.0)	0.0 (0.0)						
9	-0.1 (0.0)	0.0 (0.0)	3.0 (2.0)	2.2 (1.4)	3.2 (1.0)	2.3 (0.7)	3.1 (1.5)	2.2 (1.1)
10	-0.1 (0.0)	0.0 (0.0)	2.7 (1.7)	2.0 (1.3)	3.1 (1.4)	2.2 (1.0)	2.9 (1.9)	2.1 (1.3)
11	0.0 (0.0)	0.0 (0.0)	3.0 (1.6)	2.2 (1.2)	2.4 (0.6)	1.7 (0.4)	4.6 (1.9)	3.3 (1.4)
12	0.1 (0.1)	0.1 (0.0)	3.3 (1.8)	2.4 (1.3)	2.2 (0.5)	1.6 (0.4)	6.3 (2.1)	4.6 (1.5)
13	0.1 (0.1)	0.1 (0.1)			2.5 (0.4)	1.8 (0.3)	7.1 (1.7)	5.1 (1.2)
14	0.0 (0.1)	0.0 (0.1)	4.4 (1.5)	3.1 (1.1)	2.7 (1.1)	1.9 (0.8)	5.6 (2.4)	4.1 (1.7)
15	0.0 (0.0)	0.0 (0.0)	3.9 (1.8)	2.8 (1.3)	2.2 (0.5)	1.6 (0.4)	5.6 (2.6)	4.1 (1.9)
16	0.0 (0.1)	0.0 (0.1)	3.6 (1.8)	2.6 (1.3)	2.3 (0.5)	1.6 (0.3)	5.3 (2.8)	3.8 (2.0)
17	-0.1 (0.1)	-0.1 (0.0)	3.4 (1.9)	2.4 (1.4)	2.6 (0.7)	1.9 (0.5)	4.8 (3.0)	3.5 (2.1)
18	-0.1 (0.0)	-0.1 (0.0)	2.9 (1.8)	2.1 (1.3)	2.2 (0.5)	1.6 (0.3)	4.9 (2.4)	3.5 (1.7)
19	0.0 (0.0)	0.0 (0.0)	3.3 (2.1)	2.4 (1.5)	2.3 (0.4)	1.7 (0.3)	5.3 (2.5)	3.9 (1.8)
20	0.0 (0.1)	0.0 (0.0)	2.4 (1.5)	1.7 (1.1)	2.6 (0.5)	1.8 (0.4)	4.1 (2.6)	3.0 (1.9)
21	0.0 (0.1)	0.0 (0.0)	2.7 (1.0)	1.9 (0.7)			3.3 (1.4)	2.4 (1.0)
22	0.2 (0.2)	0.1 (0.1)	3.9 (1.3)	2.8 (0.9)			4.8 (1.7)	3.5 (1.3)
23	0.0 (0.0)	0.0 (0.0)	4.4 (1.6)	3.2 (1.2)			5.1 (2.3)	3.7 (1.6)
24	0.0 (0.0)	0.0 (0.0)	4.5 (2.1)	3.3 (1.5)	4.4 (1.0)	3.2 (0.8)	4.8 (2.4)	3.5 (1.7)
25	-0.1 (0.0)	-0.1 (0.0)	4.2 (2.1)	3.0 (1.5)	3.7 (1.3)	2.7 (1.0)	4.4 (2.2)	3.1 (1.6)
26	-0.1 (0.0)	-0.1 (0.0)	3.8 (2.2)	2.7 (1.6)	3.1 (1.0)	2.2 (0.7)	3.4 (1.6)	2.5 (1.1)
27	-0.1 (0.0)	-0.1 (0.0)	3.5 (2.5)	2.6 (1.8)			3.6 (1.7)	2.7 (1.2)
28	0.0 (0.1)	0.0 (0.1)	3.3 (1.5)	2.4 (1.0)	3.5 (0.8)	2.5 (0.6)	4.4 (1.3)	3.2 (0.9)
29	0.1 (0.0)	0.0 (0.0)	3.0 (1.4)	2.1 (1.0)	3.3 (0.5)	2.4 (0.4)	3.4 (1.1)	2.5 (0.8)
30	0.0 (0.1)	0.0 (0.0)	2.6 (1.3)	1.9 (1.0)	3.1 (0.7)	2.2 (0.5)	3.1 (1.0)	2.2 (0.7)
31	0.2 (0.1)							
Avg	0	0	3.4	2.4	2.8	2	4.4	3.2
n	31	30	28	28	25	25	29	29
SD	0.1	0.1	0.6	0.4	0.6	0.4	1	0.7
Min	-0.1	-0.1	2.4	1.7	2.2	1.6	2.9	2.1
Max	0.2	0.2	4.5	3.3	4.4	3.2	7.1	5.1

US EPA ARCHIVE DOCUMENT

Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for September, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.3 (0.0)	0.2 (0.0)	5.7 (1.5)	4.1 (1.1)	4.1 (1.2)	2.9 (0.8)	5.1 (1.3)	3.7 (0.9)
2	0.3 (0.1)	0.2 (0.1)	7.0 (2.3)	5.0 (1.7)	3.9 (1.4)	2.8 (1.0)	6.1 (2.0)	4.4 (1.5)
3	0.1 (0.1)	0.1 (0.1)	5.0 (2.4)	3.6 (1.7)	2.7 (1.1)	2.0 (0.8)	4.7 (1.7)	3.4 (1.2)
4	0.0 (0.1)	0.0 (0.0)	4.7 (2.2)	3.4 (1.6)	3.8 (1.7)	2.7 (1.2)	5.0 (2.1)	3.6 (1.5)
5	0.1 (0.1)	0.0 (0.1)	4.4 (2.5)	3.2 (1.8)	4.6 (2.5)	3.3 (1.8)	5.3 (2.8)	3.8 (2.0)
6	0.2 (0.0)	0.1 (0.0)	4.2 (2.0)	3.0 (1.5)	3.9 (1.5)	2.8 (1.1)	4.8 (2.0)	3.4 (1.4)
7	0.3 (0.1)	0.2 (0.0)	4.8 (0.8)	3.5 (0.6)	2.8 (0.6)	2.0 (0.5)	5.2 (1.0)	3.8 (0.8)
8	0.2 (0.1)	0.1 (0.1)	4.8 (1.4)	3.5 (1.0)	2.7 (0.6)	1.9 (0.4)	4.5 (1.1)	3.2 (0.8)
9	0.2 (0.1)	0.2 (0.1)	5.6 (2.2)	4.0 (1.6)	3.8 (1.3)	2.7 (1.0)	4.7 (2.3)	3.4 (1.7)
10	0.2 (0.1)	0.1 (0.1)	6.5 (1.9)	4.7 (1.4)	3.3 (1.4)	2.4 (1.0)	4.9 (1.3)	3.5 (0.9)
11	0.0 (0.1)	0.0 (0.0)	4.7 (1.8)	3.4 (1.3)	3.4 (1.4)	2.4 (1.0)	4.9 (1.6)	3.5 (1.2)
12	0.0 (0.0)	0.0 (0.0)	4.0 (2.2)	2.9 (1.5)	4.0 (2.2)	2.9 (1.6)	4.9 (2.3)	3.6 (1.7)
13	0.1 (0.1)	0.1 (0.0)	5.1 (1.6)	3.7 (1.1)	3.3 (1.3)	2.4 (0.9)	5.3 (1.9)	3.8 (1.4)
14	0.1 (0.1)	0.0 (0.1)	5.1 (3.0)	3.7 (2.2)	4.1 (2.3)	2.9 (1.7)	6.3 (3.4)	4.5 (2.4)
15	0.0 (0.1)	0.0 (0.0)						
16	0.2 (0.1)	0.1 (0.1)	5.2 (2.2)	3.7 (1.5)	2.7 (1.0)	2.0 (0.7)	5.6 (1.8)	4.0 (1.3)
17	0.4 (0.1)	0.3 (0.0)	5.1 (1.5)	3.7 (1.1)	3.2 (0.6)	2.3 (0.4)	5.9 (1.7)	4.3 (1.2)
18	0.1 (0.1)	0.1 (0.1)	4.5 (1.2)	3.2 (0.9)	3.3 (0.9)	2.3 (0.6)	5.0 (1.1)	3.6 (0.8)
19	0.2 (0.1)	0.1 (0.1)	4.1 (2.0)	2.9 (1.5)	3.5 (1.4)	2.5 (1.0)	4.6 (1.9)	3.3 (1.4)
20	0.2 (0.0)	0.1 (0.0)	4.6 (2.2)	3.4 (1.5)	4.3 (1.3)	3.1 (0.9)	5.3 (1.9)	3.9 (1.3)
21	0.3 (0.2)	0.2 (0.2)	4.7 (2.8)	3.4 (2.0)	4.5 (2.5)	3.2 (1.8)	5.7 (2.7)	4.1 (1.9)
22	0.3 (0.0)	0.2 (0.0)	4.0 (0.9)	2.9 (0.6)	2.7 (0.5)	1.9 (0.3)	5.4 (1.5)	3.9 (1.1)
23	0.0 (0.1)	0.0 (0.0)	3.3 (1.3)	2.4 (1.0)	2.5 (0.3)	1.8 (0.3)	5.4 (2.3)	3.9 (1.7)
24	0.0 (0.0)	0.0 (0.0)	3.2 (1.9)	2.3 (1.4)	2.8 (0.9)	2.0 (0.6)	4.7 (3.4)	3.4 (2.4)
25	0.2 (0.2)	0.2 (0.2)	3.9 (1.5)	2.8 (1.1)	2.9 (0.6)	2.1 (0.5)	4.8 (1.8)	3.5 (1.3)
26	0.3 (0.1)	0.2 (0.1)	5.4 (0.7)	3.9 (0.5)	4.3 (1.1)	3.1 (0.8)	7.2 (1.8)	5.2 (1.3)
27	0.0 (0.1)	0.0 (0.0)	4.1 (1.2)	3.0 (0.9)	3.6 (1.2)	2.6 (0.9)	5.9 (1.9)	4.3 (1.4)
28	0.0 (0.1)	0.0 (0.1)	3.9 (2.3)	2.8 (1.7)	5.8 (3.5)	4.2 (2.5)	6.1 (3.6)	4.4 (2.6)
29	0.0 (0.1)	0.0 (0.0)	6.0 (1.9)	4.3 (1.4)	7.5 (4.4)	5.4 (3.1)	8.8 (3.1)	6.3 (2.2)
30	0.1 (0.1)	0.0 (0.0)	6.9 (1.6)	5.0 (1.1)	10.5 (5.0)	7.8 (3.5)	10.3 (3.2)	7.5 (2.3)
Avg	0.1	0.1	4.8	3.5	3.9	2.8	5.6	4
n	30	30	29	29	29	29	29	29
SD	0.1	0.1	0.9	0.7	1.6	1.2	1.2	0.9
Min	0.0	0.0	3.2	2.3	2.5	1.8	4.5	3.2
Max	0.4	0.3	7.0	5.0	10.5	7.8	10.3	7.5

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for October, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}	ppm	mg·dsm^{-}
1	0.0 (0.1)	0.0 (0.1)	7.6 (2.3)	5.5 (1.7)	10.0 (4.8)	7.1 (3.5)	9.2 (4.5)	6.6 (3.2)
2	0.0 (0.1)	0.0 (0.0)	7.0 (2.8)	5.0 (2.0)	8.6 (5.1)	6.2 (3.6)	6.5 (2.7)	4.6 (1.9)
3	0.0 (0.1)	0.0 (0.0)	4.3 (2.1)	3.1 (1.5)	6.3 (2.7)	4.5 (1.9)	5.0 (2.3)	3.6 (1.6)
4	0.0 (0.1)	0.0 (0.0)	7.1 (2.1)	5.1 (1.5)	9.6 (4.7)	6.9 (3.4)	7.6 (2.1)	5.4 (1.5)
5	0.1 (0.1)	0.1 (0.1)	8.3 (0.9)	6.0 (0.7)	12.2 (1.5)	8.8 (1.1)	10.4 (1.3)	7.5 (0.9)
6	0.4 (0.1)	0.3 (0.1)	7.1 (0.9)	5.1 (0.6)	7.1 (3.4)	5.1 (2.5)	8.8 (1.5)	6.4 (1.1)
7	0.1 (0.0)	0.0 (0.0)			4.2 (1.4)	3.0 (1.0)	8.1 (3.2)	5.8 (2.3)
8	0.1 (0.1)	0.1 (0.1)			6.4 (2.5)	4.6 (1.8)	10.4 (3.2)	7.4 (2.3)
9	0.1 (0.1)	0.1 (0.1)			5.1 (2.9)	3.7 (2.1)	5.9 (5.2)	4.3 (3.7)
10	0.1 (0.1)	0.0 (0.1)			3.5 (0.7)	2.5 (0.5)	3.7 (1.3)	2.7 (0.9)
11	0.3 (0.0)	0.2 (0.0)						
12	0.2 (0.1)	0.1 (0.0)	2.6 (0.2)	1.8 (0.1)	10.5 (0.9)	7.6 (0.7)	8.2 (0.9)	5.9 (0.6)
13	0.0 (0.1)	0.0 (0.1)	1.8 (0.5)	1.3 (0.3)	7.8 (3.6)	5.6 (2.6)	6.9 (2.2)	4.9 (1.5)
14	0.2 (0.1)	0.2 (0.1)						
15	-0.1 (0.1)	-0.1 (0.1)	1.7 (0.3)	1.2 (0.2)				
16	-0.1 (0.1)	-0.1 (0.1)	1.6 (0.2)	1.1 (0.1)				
17	-0.1 (0.1)	-0.1 (0.1)	1.4 (0.4)	1.0 (0.3)				
18	-0.2 (0.1)	-0.1 (0.0)	1.4 (0.2)	1.0 (0.1)				
19	-0.2 (0.0)	-0.1 (0.0)	1.3 (0.5)	0.9 (0.4)				
20	-0.1 (0.1)	-0.1 (0.0)	5.5 (2.8)	3.9 (2.0)				
21	0.2 (0.2)	0.1 (0.1)	8.1 (3.5)	5.9 (2.5)				
22	0.0 (0.0)	0.0 (0.0)	7.8 (4.6)	5.6 (3.3)	6.0 (2.6)	4.3 (1.8)		
23	0.1 (0.2)	0.1 (0.1)	5.0 (3.1)	3.6 (2.3)	5.0 (2.8)	3.6 (2.0)	1.8 (0.5)	1.3 (0.4)
24	0.0 (0.1)	0.0 (0.0)	2.9 (0.9)	2.1 (0.6)	3.8 (1.5)	2.7 (1.1)	2.0 (0.5)	1.4 (0.4)
25	0.1 (0.1)	0.1 (0.1)	8.1 (2.4)	5.8 (1.7)	7.8 (1.8)	5.6 (1.3)	3.1 (0.7)	2.2 (0.5)
26	0.1 (0.1)	0.1 (0.0)	11.1 (1.0)	8.0 (0.7)	10.0 (0.7)	7.2 (0.5)	5.4 (2.6)	3.9 (1.9)
27	0.1 (0.0)	0.0 (0.0)						
28	0.0 (0.0)	0.0 (0.0)	5.8 (2.5)	4.1 (1.8)	4.7 (2.0)	3.4 (1.5)	5.4 (1.8)	3.9 (1.3)
29					7.5 (2.2)	5.4 (1.6)		
30					7.7 (1.0)	5.5 (0.7)		
31					5.8 (1.6)	4.2 (1.2)		
Avg	0	0	5.1	3.7	7.1	5.1	6.4	4.6
n	28	28	21	21	21	21	17	17
SD	0.1	0.1	2.9	2.1	2.3	1.7	2.6	1.9
Min	-0.2	-0.1	1.3	0.9	3.5	2.5	1.8	1.3
Max	0.4	0.3	11.1	8.0	12.2	8.8	10.4	7.5

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for November, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1					7.5 (2.3)	5.4 (1.7)		
2					11.1 (1.0)	7.9 (0.7)		
3					11.7 (3.5)	8.4 (2.5)		
4	0.1 (0.0)	0.1 (0.0)	24.9 (9.8)	17.8 (7.0)	11.3 (4.3)	8.1 (3.1)	15.4 (4.7)	11.1 (3.4)
5	0.0 (0.1)	0.0 (0.0)	25.9 (11.0)	18.6 (7.9)	10.2 (2.6)	7.3 (1.9)	16.1 (5.5)	11.5 (4.0)
6	0.1 (0.0)	0.1 (0.0)	24.8 (11.0)	17.8 (7.9)	11.2 (2.8)	8.0 (2.0)	16.1 (7.0)	11.6 (5.0)
7	0.1 (0.1)	0.0 (0.1)	20.2 (6.5)	14.5 (4.6)	10.8 (2.7)	7.7 (1.9)	12.0 (3.3)	8.6 (2.4)
8	0.1 (0.1)	0.1 (0.1)	19.9 (9.0)	14.2 (6.4)	9.8 (3.8)	7.0 (2.7)	11.2 (4.0)	8.0 (2.8)
9	0.1 (0.0)	0.1 (0.0)	16.7 (9.6)	12.0 (6.9)	9.5 (3.5)	6.8 (2.5)	11.2 (3.5)	8.1 (2.5)
10	0.2 (0.1)	0.2 (0.0)	11.0 (1.6)	7.9 (1.2)	8.5 (1.4)	6.1 (1.0)	9.4 (0.7)	6.7 (0.5)
11	0.2 (0.1)	0.1 (0.1)	13.0 (1.2)	9.3 (0.9)	11.5 (1.1)	8.2 (0.8)	11.3 (1.5)	8.1 (1.1)
12	0.0 (0.1)	0.0 (0.0)	13.7 (2.1)	9.9 (1.5)	13.2 (1.5)	9.5 (1.1)	13.4 (1.0)	9.6 (0.7)
13	0.1 (0.0)	0.1 (0.0)	15.7 (1.0)	11.2 (0.7)	14.3 (0.6)	10.2 (0.4)	13.2 (0.5)	9.5 (0.3)
14	0.1 (0.0)	0.1 (0.0)	15.4 (1.6)	11.0 (1.1)	14.9 (1.9)	10.7 (1.4)	13.2 (1.8)	9.5 (1.3)
15	0.2 (0.1)	0.1 (0.1)	11.8 (3.0)	8.5 (2.2)	15.5 (4.5)	11.1 (3.2)	14.3 (3.2)	10.3 (2.3)
16	0.1 (0.1)	0.1 (0.1)	10.5 (4.9)	7.5 (3.5)	17.1 (7.1)	12.2 (5.1)	14.5 (4.7)	10.4 (3.4)
17	0.2 (0.1)	0.1 (0.0)	8.8 (2.0)	6.3 (1.4)	15.0 (7.4)	10.7 (5.3)	15.7 (3.5)	11.3 (2.5)
18	0.3 (0.1)	0.2 (0.1)	7.4 (1.1)	5.3 (0.8)	8.8 (2.1)	6.3 (1.5)	13.0 (1.2)	9.4 (0.9)
19	0.2 (0.1)	0.1 (0.1)	6.0 (1.0)	4.3 (0.7)	6.7 (1.6)	4.8 (1.2)	11.0 (2.4)	7.9 (1.7)
20	0.3 (0.1)	0.2 (0.1)	8.3 (1.8)	6.0 (1.3)	9.5 (2.1)	6.8 (1.5)	16.4 (3.3)	11.8 (2.4)
21	0.3 (0.1)	0.2 (0.1)	13.6 (2.2)	9.8 (1.6)	13.5 (2.1)	9.7 (1.5)	22.8 (4.8)	16.4 (3.4)
22	0.4 (0.1)	0.3 (0.0)	12.5 (4.6)	9.0 (3.3)	14.8 (3.4)	10.6 (2.4)	25.4 (6.4)	18.2 (4.6)
23	0.3 (0.1)	0.2 (0.0)	9.2 (0.6)	6.6 (0.5)	10.7 (2.0)	7.6 (1.4)	22.3 (1.8)	16.0 (1.3)
24	0.1 (0.1)	0.1 (0.0)	9.4 (0.4)	6.8 (0.3)	10.2 (1.6)	7.3 (1.1)	17.0 (5.5)	12.2 (4.0)
25	0.1 (0.0)	0.0 (0.0)	10.4 (0.7)	7.4 (0.5)	8.6 (2.0)	6.2 (1.4)	11.9 (1.0)	8.5 (0.7)
26	0.0 (0.1)	0.0 (0.1)	12.8 (1.7)	9.2 (1.2)	9.9 (1.2)	7.1 (0.8)	14.1 (1.7)	10.1 (1.2)
27	0.0 (0.1)	0.0 (0.1)	12.4 (3.1)	8.8 (2.2)	10.8 (2.0)	7.7 (1.4)	16.5 (3.5)	11.8 (2.5)
28	0.1 (0.1)	0.0 (0.1)	11.8 (2.0)	8.5 (1.4)	12.7 (2.4)	9.1 (1.7)	19.8 (4.7)	14.2 (3.4)
29	0.0 (0.1)	0.0 (0.0)	10.3 (3.2)	7.3 (2.3)	10.3 (3.7)	7.4 (2.7)	16.2 (5.8)	11.6 (4.1)
30	0.1 (0.1)	0.0 (0.0)	9.7 (2.1)	7.0 (1.5)	8.9 (1.9)	6.4 (1.3)	14.6 (3.0)	
Avg	0.1	0.1	13.6	9.7	11.3	8.1	15.1	10.9
n	27	27	27	27	30	30	27	26
SD	0.1	0.1	5.3	3.8	2.5	1.8	3.8	2.7
Min	0.0	0.0	6.0	4.3	6.7	4.8	9.4	6.7
Max	0.4	0.3	25.9	18.6	17.1	12.2	25.4	18.2

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for December, 2009.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.1 (0.1)	0.1 (0.0)	13.8 (2.4)	9.9 (1.7)	14.2 (2.4)	10.1 (1.7)	23.0 (3.9)	
2	0.2 (0.1)	0.1 (0.1)	10.5 (2.3)	7.6 (1.6)	11.2 (4.3)	8.0 (3.1)	17.6 (5.1)	
3	0.0 (0.0)	0.0 (0.0)	9.6 (2.2)	6.9 (1.6)	8.7 (2.0)	6.2 (1.4)	11.4 (2.4)	8.2 (1.8)
4	0.1 (0.0)	0.1 (0.0)	14.0 (2.0)	10.0 (1.4)	11.1 (1.4)	7.9 (1.0)	12.7 (1.3)	9.1 (0.9)
5	0.0 (0.0)	0.0 (0.0)	15.5 (1.4)	11.1 (1.0)	12.5 (1.0)	9.0 (0.7)	16.4 (1.9)	11.8 (1.4)
6	0.1 (0.1)	0.1 (0.0)	20.2 (1.6)	14.4 (1.1)	14.6 (2.1)	10.4 (1.5)	21.4 (2.3)	15.3 (1.6)
7	0.1 (0.1)	0.1 (0.0)	19.4 (2.7)	13.9 (1.9)	15.3 (2.1)	10.9 (1.5)	20.9 (2.7)	15.0 (2.0)
8	0.2 (0.1)	0.1 (0.0)	16.8 (2.0)	12.0 (1.4)	16.5 (1.5)	11.8 (1.1)	14.8 (4.5)	10.6 (3.3)
9	0.1 (0.1)	0.0 (0.1)	8.8 (2.4)	6.3 (1.7)	6.0 (3.9)	4.3 (2.8)	7.0 (2.3)	5.0 (1.7)
10	0.0 (0.1)	0.0 (0.1)	15.7 (4.8)	11.2 (3.5)	8.3 (3.4)	5.9 (2.5)	12.7 (4.7)	9.1 (3.4)
11	0.1 (0.0)	0.1 (0.0)	17.6 (8.4)	12.6 (6.0)	13.7 (0.7)	9.8 (0.5)	19.9 (3.2)	14.2 (2.3)
12	0.1 (0.0)	0.1 (0.0)						
13	0.0 (0.1)	0.0 (0.1)	9.1 (1.9)	6.5 (1.3)	10.5 (1.8)	7.6 (1.3)	13.3 (2.5)	9.5 (1.8)
14	0.0 (0.1)	0.0 (0.1)	10.4 (1.0)	7.5 (0.7)	12.3 (1.0)	8.8 (0.7)	15.0 (1.2)	10.7 (0.9)
15	0.0 (0.0)	0.0 (0.0)	8.8 (0.8)	6.3 (0.5)	9.0 (2.4)	6.4 (1.8)	10.8 (2.9)	7.7 (2.0)
16	0.0 (0.0)	0.0 (0.0)	13.0 (2.0)	9.3 (1.4)	10.1 (1.4)	7.2 (1.0)	13.6 (2.4)	9.7 (1.7)
17	0.2 (0.1)		16.9 (2.4)	12.1 (1.7)	12.0 (1.5)	8.6 (1.1)	17.2 (2.4)	12.3 (1.7)
18	0.2 (0.1)	0.1 (0.1)	16.2 (4.6)	11.6 (3.3)	12.0 (1.0)	8.6 (0.7)	14.2 (3.3)	10.1 (2.4)
19	0.0 (0.0)	0.0 (0.0)	12.5 (1.1)	9.0 (0.8)	11.3 (0.6)	8.1 (0.4)	15.2 (2.3)	10.9 (1.7)
20	0.0 (0.1)	0.0 (0.0)	13.0 (1.4)	9.3 (1.0)	11.7 (0.7)	8.4 (0.5)	17.1 (2.1)	12.2 (1.5)
21	0.0 (0.0)		12.3 (1.6)	8.8 (1.1)	12.4 (1.0)	8.8 (0.7)	18.3 (1.8)	13.1 (1.3)
22	0.1 (0.0)		12.5 (1.3)	8.9 (0.9)	14.4 (2.1)	10.3 (1.5)	18.9 (2.1)	13.5 (1.5)
23	0.1 (0.1)		12.1 (1.7)	8.7 (1.2)	13.9 (2.7)	9.9 (1.9)	17.9 (3.3)	12.8 (2.4)
24	0.3 (0.1)	0.2 (0.0)			11.8 (2.2)	8.4 (1.6)		
25	0.1 (0.0)	0.1 (0.0)	11.7 (1.7)	8.4 (1.2)	8.6 (2.0)	6.2 (1.4)	13.4 (2.2)	9.6 (1.6)
26	0.1 (0.1)	0.1 (0.1)	13.5 (1.5)	9.7 (1.0)	10.6 (1.7)	7.6 (1.2)	18.1 (2.3)	13.0 (1.6)
27	0.0 (0.1)	0.0 (0.0)	14.9 (1.4)	10.7 (1.0)	12.0 (1.5)	8.6 (1.1)	18.3 (3.4)	13.1 (2.4)
28	0.0 (0.0)	0.0 (0.0)	15.8 (1.7)	11.3 (1.2)	13.1 (1.1)	9.4 (0.8)	19.1 (2.6)	13.6 (1.8)
29							19.0 (4.6)	13.6 (3.3)
30							15.1 (2.6)	10.8 (1.9)
31							13.1 (2.0)	9.4 (1.4)
Avg	0.1	0.1	13.6	9.8	11.8	8.4	16	11.3
n	28	24	26	26	27	27	29	27
SD	0.1	0.1	3.1	2.2	2.3	1.7	3.5	2.4
Min	0.0	0.0	8.8	6.3	6.0	4.3	7.0	5.0
Max	0.3	0.2	20.2	14.4	16.5	11.8	23.0	15.3

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Table F9. Daily mean (SD) of NH3 concentration at Site NC3B for January, 2010.

Day	Ambient		Barn 1		Barn 2		Barn 3	
	ppm	mg·dsm^{-}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1							12.1 (1.7)	8.7 (1.2)
2							13.8 (1.6)	9.9 (1.1)
3								
4			14.0 (1.3)	10.0 (0.9)				
5								
6					8.0 (1.5)	5.7 (1.1)		
7					10.0 (2.4)	7.2 (1.7)		
8					11.5 (1.5)	8.2 (1.1)		
9	0.0 (0.1)		25.0 (2.5)	17.8 (1.8)	12.2 (1.9)	8.7 (1.4)	17.2 (1.4)	12.3 (1.0)
10	0.1 (0.1)		27.4 (1.7)	19.6 (1.2)	12.2 (1.7)	8.7 (1.2)	17.6 (1.4)	12.6 (1.0)
11	0.1 (0.1)		26.1 (2.4)	18.7 (1.7)	12.7 (2.2)	9.1 (1.6)	17.6 (2.6)	12.6 (1.9)
12	0.1 (0.1)	0.1 (0.1)	24.1 (2.4)	17.2 (1.7)	14.6 (1.5)	10.4 (1.1)	13.8 (2.0)	9.9 (1.4)
13	0.1 (0.1)		19.8 (5.1)	14.2 (3.7)	14.3 (1.6)	10.2 (1.2)	14.8 (1.5)	10.6 (1.1)
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg	0.1		22.7	16.2	11.9	8.5	15.2	10.9
n	5	1	6	6	8	8	7	7
SD	0		4.6	3.3	2	1.5	2	1.5
Min	0.0		14.0	10.0	8.0	5.7	12.1	8.7
Max	0.1		27.4	19.6	14.6	10.4	17.6	12.6

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Table F10. Ammonia emissions.

Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for December, 2007.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2												
3												
4	8.06 (3.48)	9.92 (4.28)	53.5 (23.1)	12.9 (5.57)								
5	8.27 (3.11)	10.2 (3.82)	54.7 (20.5)	13.2 (4.97)	9.75 (2.67)	12.9 (3.54)	67.0 (18.4)	15.6 (4.27)				
6	7.12 (4.03)	8.78 (4.96)	46.9 (26.5)	11.4 (6.44)	9.47 (3.72)	12.6 (4.95)	64.8 (25.5)	15.2 (5.96)	6.99 (7.65)	9.52 (10.4)	52.0 (56.9)	11.2 (12.2)
7	7.69 (3.40)	9.48 (4.19)	50.4 (22.3)	12.3 (5.44)								
8	8.76 (2.59)	10.8 (3.20)	57.3 (16.9)	14.0 (4.15)	7.94 (2.67)	10.6 (3.55)	53.8 (18.1)	12.7 (4.27)				
9	9.96 (2.31)	12.3 (2.86)	64.9 (15.0)	15.9 (3.69)	7.45 (1.22)	9.95 (1.63)	50.3 (8.25)	11.9 (1.96)				
10	11.0 (2.18)	13.6 (2.71)	71.5 (14.2)	17.6 (3.50)	6.84 (1.46)	9.13 (1.95)	45.9 (9.77)	10.9 (2.33)	13.1 (3.05)	18.0 (4.19)	95.9 (22.3)	21.0 (4.88)
11	10.6 (1.87)	13.2 (2.32)	68.9 (12.1)	17.0 (3.00)	6.97 (1.87)	9.33 (2.50)	46.6 (12.5)	11.2 (3.00)	11.3 (2.52)	15.5 (3.46)	82.1 (18.4)	18.0 (4.03)
12												
13												
14												
15	9.09 (3.78)	11.3 (4.71)	58.1 (24.2)	14.5 (6.05)	8.01 (1.82)	10.8 (2.45)	52.7 (12.0)	12.8 (2.92)	6.56 (6.38)	9.12 (8.87)	47.4 (46.1)	10.5 (10.2)
16	9.49 (3.53)	11.8 (4.39)	60.5 (22.5)	15.2 (5.64)	8.01 (1.85)	10.8 (2.49)	52.5 (12.1)	12.8 (2.96)				
17	8.29 (7.04)	10.3 (8.78)	52.6 (44.7)	13.3 (11.3)	6.97 (2.04)	9.39 (2.75)	45.5 (13.3)	11.2 (3.26)				
18	7.77 (8.22)	9.69 (10.3)	49.1 (52.0)	12.4 (13.1)	6.36 (1.86)	8.58 (2.51)	41.4 (12.1)	10.2 (2.97)				
19	8.03 (7.45)	10.0 (9.31)	50.6 (47.0)	12.8 (11.9)	6.43 (1.74)	8.67 (2.35)	41.6 (11.3)	10.3 (2.79)				
20	8.35 (6.44)	10.4 (8.05)	52.5 (40.5)	13.4 (10.3)	6.92 (2.77)	9.34 (3.74)	44.6 (17.8)	11.1 (4.44)	8.31 (8.35)	11.7 (11.8)	59.5 (59.9)	13.3 (13.4)
21	8.01 (6.45)	11.3 (9.07)	57.2 (46.1)	12.8 (10.3)	7.38 (4.24)	11.4 (6.74)	54.8 (32.3)	11.8 (6.78)	7.16 (7.77)	10.1 (11.0)	51.2 (55.6)	11.5 (12.4)
22	7.28 (5.00)	11.9 (8.13)	60.7 (41.7)	11.7 (8.00)	7.15 (3.49)	12.9 (6.27)	61.8 (30.1)	11.4 (5.58)	8.66 (6.69)	12.2 (9.47)	61.7 (47.7)	13.9 (10.7)
23	11.5 (4.02)	18.8 (6.55)	95.8 (33.5)	18.4 (6.43)	8.84 (1.92)	15.9 (3.46)	76.2 (16.6)	14.1 (3.07)	11.9 (5.70)	16.8 (8.07)	84.3 (40.5)	19.0 (9.12)
24	9.09 (6.81)	14.8 (11.1)	75.4 (56.5)	14.5 (10.9)								
25	8.01 (7.00)	13.1 (11.4)	66.4 (58.0)	12.8 (11.2)					8.44 (7.46)	12.0 (10.6)	59.6 (52.7)	13.5 (11.9)
26	8.04 (7.63)	13.1 (12.5)	66.5 (63.2)	12.9 (12.2)								
27	9.29 (7.53)	15.2 (12.3)	76.8 (62.2)	14.9 (12.0)	9.50 (5.46)	17.2 (9.88)	81.2 (46.6)	15.2 (8.74)	10.3 (8.65)	14.6 (12.3)	72.0 (60.8)	16.4 (13.8)
28	11.4 (4.65)	18.8 (7.62)	94.4 (38.3)	18.3 (7.44)	9.85 (2.22)	17.9 (4.03)	84.0 (19.0)	15.8 (3.55)	11.1 (5.16)	18.2 (7.82)	92.3 (39.4)	17.7 (8.25)
29	15.0 (3.07)	24.6 (5.04)	123 (25.3)	23.9 (4.91)	8.70 (1.25)	15.8 (2.27)	74.1 (10.6)	13.9 (2.00)				
30	12.1 (2.13)	19.9 (3.51)	99.6 (17.5)	19.4 (3.41)	8.79 (1.16)	16.0 (2.12)	74.8 (9.88)	14.1 (1.86)	11.3 (2.58)	21.9 (4.99)	113 (25.7)	18.1 (4.13)
31	9.97 (5.05)	16.4 (8.31)	81.6 (41.4)	15.9 (8.09)	10.1 (2.24)	18.5 (4.10)	86.2 (19.1)	16.2 (3.59)				
Avg	9.29	13.2	67.6	14.9	8.07	12.4	60.0	12.9	9.58	14.1	72.6	15.3
n	25	25	25	25	20	20	20	20	12	12	12	12
SD	1.79	3.81	18.5	2.87	1.19	3.25	14.6	1.91	2.07	3.85	19.9	3.32
Min	7.12	8.78	46.9	11.4	6.36	8.58	41.4	10.2	6.56	9.12	47.4	10.5
Max	15.0	24.6	123	23.9	10.1	18.5	86.2	16.2	13.1	21.9	113	21.0

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for January, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	9.11 (7.06)	15.0 (11.6)	74.4 (57.7)	14.6 (11.3)					7.98 (6.68)	15.7 (13.1)	80.3 (67.2)	12.8 (10.7)
2	6.79 (7.93)	11.2 (13.1)	55.3 (64.6)	10.9 (12.7)								
3	5.71 (7.52)	9.42 (12.4)	46.4 (61.1)	9.14 (12.0)								
4												
5	7.24 (7.32)	12.0 (12.1)	58.4 (58.9)	11.6 (11.7)	8.93 (7.98)	16.4 (14.7)	75.4 (67.4)	14.3 (12.8)	6.56 (1.56)	13.1 (3.13)	66.4 (15.8)	10.5 (2.50)
6	10.0 (6.27)	16.5 (10.3)	80.3 (50.3)	16.0 (10.0)	10.4 (4.86)	19.3 (8.96)	87.9 (40.9)	16.7 (7.77)	8.62 (1.85)	17.3 (3.70)	87.0 (18.6)	13.8 (2.96)
7	12.1 (6.41)	20.0 (10.6)	96.9 (51.2)	19.4 (10.3)	11.7 (3.67)	21.7 (6.77)	98.6 (30.8)	18.8 (5.87)	9.28 (2.39)	18.6 (4.80)	93.5 (24.1)	14.9 (3.83)
8	13.2 (6.07)	21.8 (10.0)	105 (48.3)	21.1 (9.71)	10.3 (2.43)	19.0 (4.50)	86.0 (20.4)	16.4 (3.89)	10.3 (2.93)	20.7 (5.88)	104 (29)	16.5 (4.69)
9	13.7 (4.22)	22.5 (6.96)	108 (33.3)	21.9 (6.75)	10.6 (2.04)	19.6 (3.78)	88.5 (17.0)	16.9 (3.26)	12.5 (4.20)	25.2 (8.45)	126 (42)	20.1 (6.73)
10	12.6 (3.86)	58.3 (43.4)	350 (287)	20.2 (6.18)	10.7 (2.47)	20.4 (4.70)	92.3 (21.3)	17.1 (3.95)	10.8 (4.85)	21.6 (9.75)	107 (48)	17.2 (7.75)
11												
12												
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28												
29												
30												
31												
Avg	10.1	20.7	108	16.1	10.4	19.4	88.1	16.7	9.44	18.9	94.8	15.1
n	9	9	9	9	6	6	6	6	7	7	7	7
SD	2.83	14.0	88.0	4.53	0.83	1.59	7.01	1.32	1.82	3.72	18.0	2.91
Min	5.71	9.42	46.4	9.14	8.93	16.4	75.4	14.3	6.56	13.1	66.4	10.5
Max	13.7	58.3	350	21.9	11.7	21.7	98.6	18.8	12.50	25.2	126	20.1

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for March, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11	3.58 (4.39)	4.17 (5.11)	81.2 (99.5)	5.73 (7.02)					2.78 (4.20)	3.50 (5.29)	78.2 (119.0)	4.44 (6.73)
12												
13												
14												
15	4.55 (3.26)	5.31 (3.80)	97.1 (69.6)	7.28 (5.21)								
16												
17	1.69 (3.19)	1.97 (3.73)	35.1 (66.3)	2.70 (5.11)	2.35 (3.10)	2.95 (3.90)	50.8 (67.2)	3.76 (4.97)	1.76 (3.53)	2.25 (4.49)	43.9 (87.7)	2.82 (5.64)
18	3.70 (4.09)	4.32 (4.78)	75.7 (83.8)	5.92 (6.54)	3.53 (3.01)	4.43 (3.79)	75.2 (64.3)	5.65 (4.82)				
19	5.74 (2.10)	6.70 (2.45)	116 (42.7)	9.18 (3.36)	4.57 (1.23)	5.74 (1.54)	96.0 (26.0)	7.30 (1.96)				
20	3.92 (3.55)	4.58 (4.15)	78.2 (70.6)	6.28 (5.68)								
21	4.03 (4.10)	4.70 (4.79)	78.9 (80.5)	6.44 (6.56)					3.45 (3.57)	4.42 (4.57)	80.7 (83.5)	5.52 (5.71)
22	4.63 (3.59)	5.40 (4.19)	89.5 (69.5)	7.40 (5.74)	4.98 (2.12)	6.28 (2.66)	100 (43)	7.97 (3.38)	3.93 (3.10)	5.04 (3.98)	90.7 (71.7)	6.29 (4.96)
23	2.90 (4.23)	3.39 (4.94)	55.3 (80.5)	4.65 (6.77)	3.79 (3.63)	4.77 (4.57)	75.1 (71.9)	6.06 (5.80)	2.46 (3.69)	3.16 (4.74)	56.0 (84.0)	3.94 (5.91)
24	2.51 (4.23)	2.93 (4.94)	47.2 (79.6)	4.01 (6.77)								
25												
26	4.20 (4.45)	4.90 (5.21)	76.5 (81.3)	6.71 (7.13)					4.38 (4.17)	5.64 (5.36)	95.8 (91.2)	7.01 (6.66)
27	4.99 (4.12)	5.84 (4.81)	89.6 (74.1)	7.99 (6.59)	5.82 (2.07)	7.35 (2.61)	109 (39)	9.31 (3.31)	4.73 (3.10)	6.08 (3.99)	102 (67)	7.56 (4.96)
28	6.13 (2.31)	7.16 (2.70)	108 (41)	9.81 (3.70)	5.78 (1.34)	7.31 (1.70)	106 (25)	9.25 (2.15)	4.64 (1.78)	5.98 (2.29)	98.6 (38.0)	7.43 (2.85)
29	3.62 (4.07)	4.24 (4.76)	63.2 (71.0)	5.80 (6.52)	4.87 (3.90)	6.15 (4.93)	87.9 (70.3)	7.78 (6.24)	2.54 (3.09)	3.27 (3.98)	53.3 (64.7)	4.06 (4.94)
30	1.97 (4.10)	2.31 (4.79)	33.8 (70.3)	3.16 (6.56)	4.35 (4.89)	5.50 (6.19)	77.2 (86.9)	6.95 (7.83)	1.89 (3.80)	2.43 (4.90)	39.0 (78.6)	3.02 (6.08)
31	6.41 (4.28)	7.50 (5.01)	108 (72)	10.3 (6.85)	6.31 (3.00)	7.98 (3.80)	110 (53)	10.1 (4.81)	4.74 (4.00)	6.11 (5.15)	96.6 (81.6)	7.58 (6.39)
Avg	4.04	4.72	77.1	6.46	4.63	5.85	88.8	7.41	3.39	4.35	75.9	5.43
n	16	16	16	16	10	10	10	10	11	11	11	11
SD	1.33	1.56	24.2	2.13	1.14	1.45	18.1	1.82	1.10	1.42	22.5	1.76
Min	1.69	1.97	33.8	2.70	2.35	2.95	50.8	3.76	1.76	2.25	39.0	2.82
Max	6.41	7.50	116	10.3	6.31	7.98	110	10.10	4.74	6.11	102	7.58

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for April, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	7.77 (1.88)	9.09 (2.20)	129 (31)	12.4 (3.01)	6.43 (0.68)	8.14 (0.86)	110 (12)	10.3 (1.09)	6.07 (1.95)	7.83 (2.51)	122 (39)	9.72 (3.12)
2	7.65 (2.94)	8.95 (3.44)	125 (48)	12.2 (4.71)	6.12 (2.98)	7.76 (3.77)	103 (50)	9.80 (4.76)	5.76 (2.97)	7.43 (3.83)	114 (59)	9.22 (4.75)
3	7.34 (5.85)	8.59 (6.85)	118 (94)	11.7 (9.36)	6.14 (5.56)	7.78 (7.05)	102 (92)	9.82 (8.90)	5.28 (4.74)	6.80 (6.11)	103 (92)	8.44 (7.58)
4	8.62 (3.00)	10.1 (3.52)	136 (48)	13.8 (4.81)	7.90 (1.94)	10.0 (2.46)	129 (32)	12.6 (3.10)	7.31 (3.40)	9.43 (4.38)	140 (65)	11.7 (5.44)
5	9.30 (1.45)	10.9 (1.70)	144 (23)	14.9 (2.32)					6.57 (2.07)	8.47 (2.68)	124 (39)	10.5 (3.32)
6	7.51 (4.10)	8.79 (4.80)	114 (62)	12.0 (6.57)	8.37 (2.26)	10.6 (2.87)	131 (35)	13.4 (3.62)	4.82 (3.66)	6.21 (4.72)	89.9 (68.1)	7.70 (5.85)
7	5.29 (5.47)	6.20 (6.41)	79.1 (81.9)	8.47 (8.76)	8.02 (4.67)	10.2 (5.94)	124 (72)	12.8 (7.47)	4.34 (4.54)	5.61 (5.86)	79.7 (83.3)	6.95 (7.26)
8	6.31 (4.56)	7.39 (5.34)	92.5 (67.1)	10.1 (7.30)	7.83 (3.85)	9.96 (4.90)	118 (59)	12.5 (6.16)	5.60 (3.68)	7.23 (4.75)	101 (67)	8.96 (5.89)
9	8.15 (3.35)	9.56 (3.93)	117 (48)	13.0 (5.36)	7.93 (2.69)	10.1 (3.42)	118 (40)	12.7 (4.30)	6.65 (3.21)	8.59 (4.15)	118 (57)	10.6 (5.14)
10	8.70 (2.78)	10.2 (3.26)	123 (40)	13.9 (4.45)	8.15 (1.87)	10.4 (2.38)	118 (28)	13.0 (2.99)	6.72 (3.38)	8.68 (4.37)	118 (59)	10.7 (5.41)
11	7.96 (2.38)	9.34 (2.79)	111 (33)	12.7 (3.81)					6.68 (2.37)	8.63 (3.07)	115 (41)	10.7 (3.80)
12	8.62 (1.02)	10.1 (1.19)	118 (14)	13.8 (1.62)					6.33 (1.98)	8.18 (2.56)	107 (33)	10.1 (3.17)
13	7.84 (2.58)	9.20 (3.03)	105 (35)	12.5 (4.13)	6.80 (2.02)	8.65 (2.57)	93.2 (27.7)	10.9 (3.23)				
14	6.39 (5.22)	7.50 (6.13)	83.8 (68.5)	10.2 (8.36)	8.29 (4.76)	10.6 (6.06)	111 (64)	13.3 (7.61)	6.33 (5.89)	8.19 (7.63)	103 (96)	10.1 (9.43)
15	5.90 (4.91)	6.93 (5.77)	76.0 (63.2)	9.45 (7.86)	8.08 (4.15)	10.3 (5.28)	106 (55)	12.9 (6.64)	7.14 (5.67)	9.24 (7.33)	115 (91)	11.4 (9.07)
16	6.14 (5.21)	7.21 (6.12)	77.6 (66.0)	9.83 (8.34)	7.60 (4.94)	9.68 (6.29)	97.9 (63.8)	12.2 (7.90)	6.10 (4.98)	7.90 (6.45)	96.2 (78.6)	9.76 (7.97)
17	6.73 (4.64)	7.90 (5.45)	83.4 (57.7)	10.8 (7.43)	6.95 (4.51)	8.85 (5.75)	87.8 (57.3)	11.1 (7.22)	6.12 (4.50)	7.92 (5.83)	94.7 (69.9)	9.79 (7.20)
18	6.75 (3.57)	7.92 (4.19)	82.0 (43.6)	10.8 (5.71)	7.86 (2.44)	10.0 (3.10)	97.5 (30.6)	12.6 (3.90)	6.29 (3.36)	8.15 (4.34)	95.6 (51.3)	10.1 (5.37)
19	7.79 (2.54)	9.15 (2.98)	93.0 (30.5)	12.5 (4.06)	7.52 (1.58)	9.60 (2.01)	91.5 (19.5)	12.0 (2.52)	6.83 (2.56)	8.85 (3.32)	102 (39)	10.9 (4.10)
20	8.21 (1.08)	9.65 (1.27)	96.1 (12.7)	13.1 (1.72)	7.74 (1.12)	9.88 (1.43)	92.2 (13.4)	12.4 (1.79)	7.08 (2.15)	9.17 (2.78)	104 (32)	11.3 (3.44)
21	8.54 (2.84)	10.0 (3.33)	98.0 (32.5)	13.7 (4.54)	8.62 (2.13)	11.0 (2.72)	101 (25)	13.8 (3.41)	7.94 (3.29)	10.3 (4.27)	114 (47)	12.7 (5.27)
22	9.71 (2.46)	11.4 (2.89)	109 (28)	15.5 (3.93)	7.95 (1.28)	10.2 (1.63)	91.1 (14.9)	12.7 (2.05)	7.35 (2.55)	9.52 (3.31)	104 (36)	11.8 (4.08)
23	10.2 (2.07)	12.0 (2.44)	113 (23)	16.4 (3.32)	7.77 (0.88)	9.92 (1.12)	87.3 (10.2)	12.4 (1.41)	7.76 (2.02)	10.1 (2.61)	108 (28)	12.4 (3.23)
24	9.09 (1.73)	10.7 (2.04)	98.8 (19.0)	14.5 (2.77)	7.53 (1.70)	9.61 (2.17)	83.0 (19.0)	12.0 (2.72)	7.59 (2.26)	9.84 (2.93)	103 (31)	12.1 (3.62)
25	8.51 (1.77)	10.0 (2.09)	90.8 (19.0)	13.6 (2.83)	7.36 (1.21)	9.40 (1.55)	79.7 (13.3)	11.8 (1.94)	7.19 (2.13)	9.33 (2.76)	95.9 (28.6)	11.5 (3.40)
26	8.13 (1.98)	9.59 (2.33)	85.3 (20.9)	13.0 (3.16)	7.59 (0.91)	9.70 (1.17)	80.6 (9.9)	12.1 (1.46)	7.14 (1.56)	9.26 (2.03)	93.5 (20.6)	11.4 (2.50)
27	9.51 (1.81)	11.2 (2.13)	97.9 (18.6)	15.2 (2.89)	7.35 (0.82)	9.39 (1.05)	76.5 (8.6)	11.8 (1.31)	7.53 (1.58)	9.77 (2.05)	96.8 (20.3)	12.0 (2.53)
28	9.61 (2.35)	11.4 (2.77)	97.3 (24.0)	15.4 (3.75)	7.38 (0.87)	9.43 (1.11)	75.4 (9.0)	11.8 (1.38)	7.08 (1.68)	9.19 (2.18)	89.4 (21.3)	11.3 (2.69)
29	10.0 (2.37)	11.8 (2.80)	99.7 (23.6)	16.0 (3.80)	7.31 (1.24)	9.34 (1.58)	73.4 (12.4)	11.7 (1.98)	6.57 (3.25)	8.53 (4.22)	81.4 (40.1)	10.5 (5.19)
30	9.28 (4.17)	11.0 (4.93)	90.7 (40.8)	14.9 (6.67)	7.65 (2.08)	9.78 (2.66)	75.3 (20.6)	12.2 (3.33)	7.17 (4.05)	9.31 (5.26)	87.2 (49.4)	11.5 (6.48)
Avg	8.05	9.46	103	12.9	7.56	9.64	98.3	12.1	6.60	8.54	104	10.6
n	30	30	30	30	27	27	27	27	29	29	29	29
SD	1.26	1.50	17.8	2.02	0.62	0.80	16.9	0.99	0.84	1.10	13.4	1.35
Min	5.29	6.20	76.0	8.47	6.12	7.76	73.4	9.80	4.34	5.61	79.7	6.95
Max	10.2	12.0	144	16.4	8.62	11.0	131	13.8	7.94	10.3	140	12.7

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for May, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	8.43 (4.21)	9.96 (4.97)	80.9 (40.6)	13.5 (6.73)	6.98 (1.85)	8.93 (2.37)	67.5 (18.1)	11.2 (2.96)	6.97 (3.61)	9.06 (4.69)	83.2 (43.2)	11.2 (5.78)
2	8.84 (2.06)	10.4 (2.43)	83.5 (19.6)	14.1 (3.29)	6.83 (0.87)	8.74 (1.11)	65.0 (8.34)	10.9 (1.38)	7.60 (1.87)	9.87 (2.43)	89.1 (22.0)	12.2 (2.99)
3	8.41 (1.75)	9.94 (2.07)	78.1 (16.3)	13.5 (2.80)	7.01 (0.91)	8.96 (1.16)	65.5 (8.61)	11.2 (1.45)	7.99 (2.31)	10.4 (3.00)	92.0 (26.7)	12.8 (3.69)
4	8.77 (2.11)	10.4 (2.49)	80.1 (19.4)	14.0 (3.37)	7.74 (1.40)	9.91 (1.79)	71.2 (12.8)	12.4 (2.23)	8.14 (1.78)	10.6 (2.31)	92.0 (20.0)	13.0 (2.84)
5	10.9 (1.53)	12.9 (1.81)	97.7 (13.7)	17.4 (2.46)	7.56 (1.21)	9.67 (1.55)	68.3 (10.9)	12.1 (1.94)	8.46 (2.40)	11.0 (3.12)	93.8 (26.5)	13.5 (3.84)
6	10.1 (1.84)	12.0 (2.18)	89.7 (16.3)	16.2 (2.94)	6.87 (0.91)	8.80 (1.17)	61.1 (8.13)	11.0 (1.46)	9.09 (1.87)	11.8 (2.42)	99.0 (20.6)	14.5 (2.99)
7	8.64 (2.14)	10.2 (2.53)	75.3 (18.8)	13.8 (3.42)	7.13 (1.04)	9.13 (1.33)	62.4 (9.21)	11.4 (1.67)	8.66 (1.96)	11.2 (2.55)	92.7 (20.9)	13.9 (3.14)
8	9.36 (1.81)	11.1 (2.15)	80.3 (15.8)	15.0 (2.90)	7.18 (1.25)	9.20 (1.60)	61.8 (10.8)	11.5 (2.00)	8.80 (1.29)	11.4 (1.68)	92.6 (13.6)	14.1 (2.06)
9	8.43 (1.34)	9.98 (1.58)	71.2 (11.3)	13.5 (2.14)	6.50 (0.81)	8.32 (1.04)	55.1 (6.92)	10.4 (1.30)	8.18 (1.15)	10.6 (1.49)	84.6 (12.0)	13.1 (1.84)
10	8.48 (1.40)	10.0 (1.65)	70.6 (11.8)	13.6 (2.24)	6.98 (1.05)	8.93 (1.34)	58.2 (8.70)	11.2 (1.67)	7.85 (1.55)	10.2 (2.02)	79.7 (15.8)	12.6 (2.49)
11	9.72 (2.63)	11.5 (3.11)	79.7 (21.6)	15.6 (4.21)	7.68 (1.03)	9.83 (1.32)	63.1 (8.50)	12.3 (1.65)	8.08 (2.47)	10.5 (3.21)	80.6 (24.7)	12.9 (3.96)
12	9.83 (2.43)	11.6 (2.88)	79.5 (19.6)	15.7 (3.90)	7.43 (0.86)	9.51 (1.11)	60.2 (7.02)	11.9 (1.38)	7.94 (1.89)	10.3 (2.46)	78.0 (18.4)	12.7 (3.03)
13	9.38 (4.03)	11.1 (4.77)	74.8 (32.1)	15.0 (6.45)	7.62 (1.66)	9.76 (2.13)	60.9 (13.3)	12.2 (2.66)	9.32 (3.09)	12.1 (4.02)	90.0 (29.9)	14.9 (4.95)
14	9.12 (3.76)	10.8 (4.45)	71.7 (29.7)	14.6 (6.01)	7.25 (1.79)	9.29 (2.30)	57.2 (14.3)	11.6 (2.87)	8.34 (3.33)	10.8 (4.33)	79.2 (31.8)	13.4 (5.33)
15	10.4 (2.27)	12.3 (2.69)	80.7 (17.7)	16.7 (3.64)	7.87 (1.34)	10.1 (1.71)	61.2 (10.4)	12.6 (2.14)	9.66 (0.88)	12.5 (1.14)	90.3 (8.3)	15.5 (1.41)
16	8.58 (1.94)	10.2 (2.30)	65.7 (15.0)	13.7 (3.10)	7.95 (1.02)	10.2 (1.31)	61.0 (7.79)	12.7 (1.63)	8.25 (1.38)	10.7 (1.79)	76.0 (12.9)	13.2 (2.21)
17	9.49 (1.48)	11.2 (1.75)	71.7 (11.3)	15.2 (2.36)	7.57 (0.89)	9.71 (1.14)	57.4 (6.79)	12.1 (1.42)	9.19 (1.89)	11.9 (2.46)	83.3 (17.2)	14.7 (3.03)
18	9.32 (1.98)	11.0 (2.35)	69.6 (14.8)	14.9 (3.17)	8.67 (1.29)	11.1 (1.66)	64.9 (9.71)	13.9 (2.07)	10.1 (1.62)	13.2 (2.11)	90.5 (14.6)	16.2 (2.60)
19	10.2 (3.67)	12.1 (4.35)	75.3 (26.9)	16.4 (5.87)	7.30 (2.37)	9.37 (3.04)	54.0 (17.6)	11.7 (3.79)	8.88 (2.93)	11.5 (3.80)	78.3 (25.9)	14.2 (4.68)
20	12.3 (3.53)	14.6 (4.19)	89.5 (25.9)	19.7 (5.65)	9.89 (1.33)	12.7 (1.71)	72.3 (9.73)	15.8 (2.13)	8.98 (2.17)	11.7 (2.82)	78.0 (18.9)	14.4 (3.48)
21	10.4 (1.56)	12.3 (1.85)	75.0 (11.4)	16.7 (2.49)	8.76 (1.24)	11.2 (1.59)	63.3 (9.04)	14.0 (1.98)	9.96 (1.67)	12.9 (2.17)	85.2 (14.3)	15.9 (2.67)
22	9.59 (2.53)	11.4 (3.00)	68.3 (18.1)	15.4 (4.05)	9.74 (1.76)	12.5 (2.25)	69.7 (12.6)	15.6 (2.81)	10.6 (2.32)	13.7 (3.02)	89.1 (19.6)	16.9 (3.72)
23	8.35 (2.27)	9.89 (2.69)	58.8 (16.1)	13.4 (3.63)	8.44 (1.26)	10.8 (1.62)	59.7 (9.03)	13.5 (2.02)	10.5 (2.11)	13.6 (2.75)	87.2 (17.7)	16.7 (3.38)
24	9.88 (1.39)	11.7 (1.65)	68.8 (9.7)	15.8 (2.22)	8.72 (1.05)	11.2 (1.34)	60.9 (7.25)	13.9 (1.67)	11.9 (1.97)	15.5 (2.57)	98.2 (16.2)	19.1 (3.16)
25	9.70 (2.10)	11.5 (2.49)	66.9 (14.6)	15.5 (3.37)	9.15 (1.32)	11.7 (1.69)	63.3 (9.12)	14.6 (2.10)	10.6 (2.65)	13.8 (3.46)	86.1 (21.6)	17.0 (4.25)
26	8.53 (2.18)	10.1 (2.59)	58.3 (15.0)	13.6 (3.49)	9.24 (1.25)	11.9 (1.61)	63.4 (8.67)	14.8 (2.01)	10.1 (2.88)	13.1 (3.74)	80.5 (23.2)	16.1 (4.60)
27	8.28 (1.85)	9.82 (2.20)	56.1 (12.6)	13.2 (2.96)	9.14 (1.26)	11.7 (1.62)	62.1 (8.61)	14.6 (2.02)	9.42 (1.65)	12.3 (2.14)	74.6 (13.2)	15.1 (2.63)
28	9.70 (2.09)	11.5 (2.48)	65.1 (14.0)	15.5 (3.34)	9.32 (1.56)	12.0 (2.00)	62.7 (10.4)	14.9 (2.50)	11.2 (2.19)	14.5 (2.86)	87.3 (17.1)	17.9 (3.51)
29	9.74 (2.53)	11.6 (3.01)	64.9 (16.8)	15.6 (4.04)	9.12 (1.41)	11.7 (1.81)	60.8 (9.43)	14.6 (2.25)	10.6 (2.09)	13.8 (2.72)	81.7 (16.2)	16.9 (3.34)
30	8.96 (3.53)	10.7 (4.20)	59.2 (23.4)	14.3 (5.65)	8.84 (1.21)	11.4 (1.55)	58.4 (8.03)	14.1 (1.93)	10.2 (2.20)	13.3 (2.88)	78.0 (16.9)	16.3 (3.53)
31	8.63 (3.32)	10.3 (3.95)	56.6 (21.8)	13.8 (5.31)	8.79 (1.21)	11.3 (1.56)	57.6 (7.92)	14.1 (1.94)	9.58 (2.42)	12.5 (3.16)	72.5 (18.4)	15.3 (3.87)
Avg	9.37	11.1	73.0	15.0	8.04	10.3	62.3	12.9	9.20	12.0	85.3	14.7
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.89	1.05	9.95	1.42	0.96	1.24	4.29	1.53	1.15	1.50	6.83	1.83
Min	8.28	9.82	56.1	13.2	6.50	8.32	54.0	10.4	6.97	9.06	72.5	11.2
Max	12.3	14.6	97.7	19.7	9.89	12.7	72.3	15.8	11.90	15.5	99.0	19.1

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for June, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	7.59 (1.52)	9.04 (1.81)	49.4 (9.94)	12.1 (2.44)	5.97 (2.16)	7.68 (2.77)	38.9 (14.1)	9.55 (3.45)	9.36 (2.11)	12.2 (2.75)	70.0 (15.9)	15.0 (3.38)
2	7.50 (2.01)	8.94 (2.40)	48.4 (13.0)	12.0 (3.22)	10.0 (4.08)	12.9 (5.25)	64.8 (26.4)	16.1 (6.53)	9.31 (2.15)	12.2 (2.80)	69.0 (16.0)	14.9 (3.43)
3	8.09 (3.12)	9.65 (3.73)	51.9 (20.1)	12.9 (5.00)	9.22 (1.88)	11.9 (2.41)	59.1 (12.0)	14.7 (3.00)	8.82 (2.02)	11.5 (2.64)	64.8 (14.9)	14.1 (3.23)
4	7.30 (2.79)	8.71 (3.33)	46.5 (17.8)	11.7 (4.46)	8.96 (1.55)	11.5 (2.00)	57.0 (9.88)	14.3 (2.49)	8.04 (2.37)	10.5 (3.09)	58.4 (17.3)	12.9 (3.79)
5	6.69 (1.94)	7.99 (2.32)	42.3 (12.3)	10.7 (3.10)	9.18 (2.55)	11.8 (3.28)	58.0 (16.1)	14.7 (4.07)	7.16 (1.82)	9.37 (2.38)	51.5 (13.2)	11.4 (2.91)
6	6.56 (1.53)	7.84 (1.82)	41.3 (9.65)	10.5 (2.44)	8.79 (1.08)	11.3 (1.39)	55.2 (6.75)	14.1 (1.73)	7.13 (1.55)	9.34 (2.03)	50.9 (11.1)	11.4 (2.48)
7	7.26 (2.39)	8.68 (2.85)	45.3 (14.9)	11.6 (3.82)	7.02 (2.43)	9.05 (3.13)	43.9 (15.2)	11.2 (3.88)	8.17 (2.04)	10.7 (2.67)	57.8 (14.5)	13.1 (3.26)
8	6.84 (1.89)	8.18 (2.26)	42.5 (11.8)	11.0 (3.02)	5.90 (2.39)	7.60 (3.08)	36.6 (14.9)	9.44 (3.82)	6.68 (2.10)	8.77 (2.75)	46.9 (14.8)	10.7 (3.35)
9	7.04 (2.30)	8.42 (2.75)	43.5 (14.3)	11.3 (3.68)	6.75 (2.08)	8.70 (2.68)	41.6 (12.8)	10.8 (3.33)	4.28 (1.65)	5.63 (2.16)	29.8 (11.5)	6.86 (2.64)
10	7.28 (3.07)	8.73 (3.67)	44.8 (18.9)	11.6 (4.90)	6.24 (2.32)	8.05 (2.99)	38.3 (14.2)	9.98 (3.71)				
11												
12												
13	8.71 (3.76)	10.5 (4.53)	52.9 (22.9)	13.9 (6.02)	6.81 (0.95)	8.82 (1.22)	41.2 (5.74)	10.9 (1.51)	7.66 (1.74)	10.1 (2.29)	51.6 (11.8)	12.3 (2.78)
14	8.66 (3.10)	10.4 (3.74)	52.4 (18.8)	13.9 (4.96)	6.69 (1.32)	8.67 (1.70)	40.3 (7.96)	10.7 (2.11)	7.59 (1.74)	9.98 (2.29)	50.8 (11.7)	12.1 (2.79)
15	9.16 (2.85)	11.1 (3.45)	55.2 (17.2)	14.7 (4.57)	5.38 (0.93)	6.99 (1.21)	32.3 (5.61)	8.61 (1.49)	7.96 (1.26)	10.5 (1.66)	52.9 (8.39)	12.7 (2.01)
16	8.64 (2.98)	10.5 (3.61)	51.9 (17.9)	13.8 (4.77)	5.88 (1.34)	7.64 (1.75)	35.2 (8.05)	9.41 (2.15)	6.88 (1.81)	9.06 (2.38)	45.4 (12.0)	11.0 (2.89)
17	9.54 (3.68)	11.6 (4.46)	57.0 (22.0)	15.3 (5.89)	6.76 (1.67)	8.79 (2.18)	40.3 (9.98)	10.8 (2.68)	7.13 (1.31)	9.39 (1.73)	46.8 (8.65)	11.4 (2.10)
18	9.22 (3.41)	11.2 (4.13)	54.9 (20.3)	14.8 (5.45)	6.14 (1.56)	7.99 (2.03)	36.4 (9.24)	9.83 (2.49)	7.09 (1.65)	9.36 (2.18)	46.3 (10.8)	11.3 (2.65)
19	8.20 (3.01)	9.95 (3.65)	48.6 (17.8)	13.1 (4.81)	6.41 (1.60)	8.34 (2.09)	37.8 (9.49)	10.3 (2.57)	7.45 (1.93)	9.84 (2.55)	48.3 (12.6)	11.9 (3.10)
20	9.30 (3.68)	11.3 (4.46)	54.9 (21.7)	14.9 (5.88)	7.25 (2.42)	9.43 (3.14)	42.6 (14.2)	11.6 (3.86)	7.92 (2.14)	10.5 (2.83)	51.1 (13.8)	12.7 (3.43)
21	9.30 (2.90)	11.3 (3.53)	54.7 (17.1)	14.9 (4.64)	7.03 (1.40)	9.15 (1.82)	41.1 (8.20)	11.2 (2.24)	8.34 (1.51)	11.0 (2.00)	53.5 (9.72)	13.3 (2.42)
22												
23	8.29 (2.41)	10.1 (2.94)	48.4 (14.1)	13.3 (3.86)	7.19 (2.82)	9.36 (3.67)	41.6 (16.3)	11.5 (4.51)	7.99 (2.03)	10.6 (2.70)	50.7 (12.9)	12.8 (3.25)
24	7.20 (1.84)	9.73 (1.98)	46.9 (9.50)	11.5 (2.94)	6.56 (1.93)	9.56 (2.31)	42.4 (10.3)	10.5 (3.08)	7.59 (2.15)	11.3 (2.73)	53.8 (13.0)	12.1 (3.45)
25	6.73 (3.30)	10.6 (5.19)	51.3 (25.2)	10.8 (5.28)	5.85 (1.95)	10.0 (3.35)	44.3 (14.8)	9.36 (3.12)	6.52 (2.13)	11.5 (3.74)	54.3 (17.7)	10.4 (3.40)
26	6.96 (1.89)	10.9 (2.98)	52.9 (14.4)	11.1 (3.03)	5.29 (1.52)	9.09 (2.61)	40.0 (11.5)	8.46 (2.43)	8.81 (2.46)	15.5 (4.32)	73.0 (20.4)	14.1 (3.93)
27	6.06 (1.07)	9.54 (1.68)	45.9 (8.11)	9.70 (1.71)	4.61 (1.25)	7.93 (2.15)	34.7 (9.43)	7.37 (2.00)	7.49 (1.02)	13.2 (1.80)	61.8 (8.42)	12.0 (1.63)
28	6.06 (1.22)	9.54 (1.91)	45.7 (9.20)	9.70 (1.95)	4.62 (1.22)	7.95 (2.11)	34.7 (9.20)	7.39 (1.96)	7.53 (1.08)	13.3 (1.91)	61.7 (8.86)	12.0 (1.73)
29	6.88 (1.38)	10.8 (2.17)	51.7 (10.4)	11.0 (2.20)	5.28 (1.12)	9.10 (1.93)	39.5 (8.38)	8.45 (1.79)	7.10 (1.15)	12.5 (2.03)	58.0 (9.41)	11.4 (1.84)
30	6.40 (1.25)	10.1 (1.97)	47.9 (9.42)	10.2 (2.01)	4.90 (1.10)	8.46 (1.91)	36.6 (8.26)	7.84 (1.77)	7.72 (2.33)	13.6 (4.12)	62.8 (19.0)	12.4 (3.73)
Avg	7.68	9.82	49.2	12.3	6.69	9.18	42.8	10.7	7.60	10.8	54.7	12.2
n	27	27	27	27	27	27	27	27	26	26	26	26
SD	1.05	1.09	4.37	1.69	1.42	1.48	8.30	2.28	0.98	1.91	8.98	1.57
Min	6.06	7.84	41.3	9.70	4.61	6.99	32.3	7.37	4.28	5.63	29.8	6.86
Max	9.54	11.6	57.0	15.3	10.0	12.9	64.8	16.1	9.36	15.5	73.0	15.0

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for July, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	6.48 (3.46)	11.0 (5.78)	52.5 (27.7)	10.4 (5.54)	4.46 (1.43)	8.35 (2.70)	36.1 (11.7)	7.14 (2.29)	6.85 (1.62)	12.1 (2.86)	55.4 (13.1)	11.0 (2.59)
2	7.72 (4.50)	14.3 (8.34)	68.9 (40.2)	12.3 (7.20)	4.71 (1.65)	9.67 (3.39)	41.9 (14.7)	7.53 (2.64)	8.08 (2.45)	14.3 (4.33)	65.1 (19.8)	12.9 (3.92)
3	7.59 (3.17)	14.1 (5.87)	67.5 (28.2)	12.1 (5.07)	5.42 (1.09)	11.1 (2.23)	48.0 (9.7)	8.67 (1.74)	7.55 (2.14)	13.3 (3.79)	60.6 (17.2)	12.1 (3.43)
4	6.77 (1.51)	12.5 (2.79)	60.1 (13.4)	10.8 (2.41)	6.29 (1.18)	12.9 (2.42)	55.5 (10.4)	10.1 (1.89)	6.89 (1.45)	12.2 (2.57)	55.0 (11.6)	11.0 (2.33)
5												
6												
7												
8												
9	6.90 (1.45)	12.9 (2.70)	60.6 (12.8)	11.0 (2.32)	4.79 (0.91)	9.85 (1.87)	41.6 (7.92)	7.67 (1.46)	8.23 (6.24)	14.9 (10.90)	66.1 (48.5)	13.2 (9.99)
10	6.43 (1.08)	12.0 (2.01)	56.3 (9.47)	10.3 (1.73)	5.00 (1.06)	10.3 (2.18)	43.3 (9.19)	8.00 (1.70)	6.17 (1.68)	11.6 (3.17)	51.3 (14.0)	9.87 (2.69)
11												
12	5.93 (1.41)	11.1 (2.63)	51.7 (12.3)	9.48 (2.25)	4.74 (0.94)	9.77 (1.93)	40.9 (8.08)	7.58 (1.50)				
13	6.54 (1.49)	12.2 (2.78)	56.9 (12.9)	10.5 (2.38)	4.97 (1.05)	10.3 (2.16)	42.7 (9.02)	7.95 (1.68)				
14	7.41 (1.52)	13.9 (2.84)	64.3 (13.2)	11.9 (2.43)	5.24 (1.10)	10.8 (2.27)	44.9 (9.38)	8.39 (1.75)				
15	6.72 (1.35)	12.6 (2.53)	58.0 (11.7)	10.7 (2.16)	5.38 (1.30)	11.1 (2.68)	45.9 (11.1)	8.60 (2.08)				
16	6.35 (1.81)	11.9 (3.39)	54.6 (15.6)	10.2 (2.89)	4.79 (0.82)	9.91 (1.71)	40.7 (7.00)	7.66 (1.32)				
17	6.24 (2.15)	11.7 (4.03)	53.5 (18.5)	9.98 (3.45)	4.93 (1.08)	12.5 (2.38)	51.3 (9.72)	7.89 (1.72)	6.65 (1.64)	12.5 (3.09)	54.4 (13.4)	10.6 (2.62)
18	5.89 (1.92)	11.0 (3.59)	50.3 (16.4)	9.42 (3.07)	4.81 (1.11)	16.1 (3.72)	65.9 (15.2)	7.70 (1.77)	6.46 (1.52)	12.2 (2.88)	52.9 (12.5)	10.3 (2.44)
19	5.78 (1.14)	10.8 (2.13)	49.1 (9.70)	9.25 (1.82)	4.84 (1.04)	16.2 (3.50)	66.0 (14.2)	7.74 (1.67)	6.45 (1.56)	12.2 (2.96)	52.7 (12.8)	10.3 (2.50)
20	6.23 (1.12)	11.7 (2.10)	52.6 (9.49)	9.96 (1.79)	5.89 (1.32)	19.8 (4.42)	80.0 (17.9)	9.42 (2.11)	6.59 (1.33)	12.5 (2.52)	53.8 (10.8)	10.5 (2.13)
21	6.25 (1.35)	11.7 (2.53)	52.5 (11.4)	10.0 (2.16)	5.82 (1.14)	19.5 (3.82)	78.6 (15.4)	9.31 (1.82)	6.02 (1.39)	11.4 (2.63)	49.1 (11.3)	9.64 (2.22)
22	6.26 (1.00)	27.0 (18.4)	139 (103.00)	10.0 (1.59)	5.28 (1.04)	22.6 (4.66)	91.7 (19.1)	8.45 (1.67)	5.97 (0.90)	11.4 (1.71)	48.6 (7.34)	9.55 (1.44)
23					3.97 (1.23)	23.2 (7.17)	94.2 (29.1)	6.34 (1.96)	5.89 (1.06)	11.2 (2.03)	47.9 (8.64)	9.43 (1.70)
24					5.05 (0.74)	29.5 (4.32)	120 (17.5)	8.08 (1.18)	6.52 (1.47)	12.4 (2.81)	52.8 (11.9)	10.4 (2.36)
25												
26												
27												
28												
29												
30												
31												
Avg	6.56	13.1	61.7	10.5	5.07	14.4	59.4	8.11	6.74	12.5	54.7	10.8
n	17	17	17	17	19	19	19	19	14	14	14	14
SD	0.56	3.63	20.1	0.89	0.52	5.76	22.6	0.83	0.71	1.03	5.44	1.14
Min	5.78	10.8	49.1	9.25	3.97	8.35	36.1	6.34	5.89	11.2	47.9	9.43
Max	7.72	27.0	139	12.3	6.29	29.5	120	10.1	8.23	14.9	66.1	13.2

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for August, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2												
3												
4												
5												
6												
7												
8												
9	5.38 (2.49)	6.45 (2.99)	131 (60)	8.61 (3.99)	5.05 (1.79)	6.86 (2.43)	131 (46)	8.09 (2.86)				
10					3.31 (0.36)	4.49 (0.49)	84.1 (9.3)	5.29 (0.58)	2.19 (0.32)			3.51 (0.52)
11	4.66 (1.29)	5.59 (1.54)	109 (30)	7.46 (2.06)	3.55 (0.56)	4.82 (0.76)	88.4 (13.9)	5.68 (0.90)	3.12 (1.02)			4.99 (1.63)
12	4.43 (2.02)	5.30 (2.42)	101 (47)	7.08 (3.24)	3.72 (1.43)	5.06 (1.94)	91.0 (35.1)	5.96 (2.28)	3.69 (1.10)	5.02 (1.49)	113 (34)	5.90 (1.75)
13	5.89 (1.22)	7.05 (1.46)	132 (27)	9.42 (1.95)	3.93 (0.71)	5.34 (0.97)	94.1 (16.9)	6.28 (1.14)	3.70 (1.46)	5.03 (1.99)	110 (43)	5.92 (2.34)
14	5.78 (1.18)	6.92 (1.41)	127 (26)	9.24 (1.88)	4.38 (0.58)	5.96 (0.79)	103 (14)	7.00 (0.93)	3.87 (1.29)	5.26 (1.75)	112 (38)	6.19 (2.06)
15	4.89 (1.42)	5.86 (1.70)	106 (31)	7.82 (2.28)	3.84 (0.59)	5.22 (0.81)	89.0 (13.9)	6.14 (0.95)	3.82 (1.13)	5.20 (1.53)	108 (32)	6.11 (1.80)
16					3.90 (0.44)	5.31 (0.61)	88.9 (10.0)	6.24 (0.71)	3.71 (0.73)	5.05 (1.00)	103 (20)	5.94 (1.17)
17	6.56 (1.47)	7.86 (1.76)	138 (31)	10.5 (2.35)	4.71 (0.88)	6.42 (1.19)	106 (20)	7.53 (1.40)	3.91 (0.94)	5.33 (1.28)	106 (25)	6.26 (1.51)
18	6.69 (1.71)	8.01 (2.05)	138 (36)	10.7 (2.74)	5.10 (0.98)	6.96 (1.33)	113 (22)	8.17 (1.56)	4.40 (1.26)	5.99 (1.71)	117 (34)	7.03 (2.01)
19	5.54 (1.49)	6.64 (1.79)	113 (31)	8.86 (2.39)	5.20 (0.77)	7.09 (1.05)	113 (17)	8.31 (1.23)	4.78 (1.73)	6.51 (2.36)	125 (46)	7.65 (2.77)
20	5.18 (1.21)	6.22 (1.45)	104 (25)	8.29 (1.94)	5.21 (0.94)	7.11 (1.29)	111 (20)	8.33 (1.51)	4.63 (1.36)	6.31 (1.85)	118 (35)	7.40 (2.17)
21	5.88 (0.92)	7.05 (1.10)	116 (18)	9.40 (1.47)	5.74 (1.16)	7.83 (1.59)	121 (24)	9.18 (1.86)	4.66 (0.68)	6.35 (0.92)	117 (17)	7.46 (1.08)
22	5.27 (0.91)	6.33 (1.10)	102 (18)	8.44 (1.46)	5.33 (0.78)	7.27 (1.06)	110 (16)	8.53 (1.25)	4.81 (1.64)	6.56 (2.24)	119 (41)	7.69 (2.62)
23	5.58 (1.77)	6.70 (2.13)	107 (34)	8.92 (2.84)	5.59 (0.91)	7.64 (1.24)	114 (19)	8.95 (1.45)	5.07 (1.21)	6.92 (1.65)	124 (30)	8.12 (1.94)
24	5.43 (1.29)	6.53 (1.55)	102 (25)	8.69 (2.06)	5.80 (1.02)	7.93 (1.39)	116 (21)	9.29 (1.63)	5.38 (2.12)	7.34 (2.88)	129 (51)	8.61 (3.38)
25												
26												
27	6.25 (0.72)	7.52 (0.86)	112 (13)	10.0 (1.15)	6.41 (1.41)	8.76 (1.92)	122 (27)	10.30 (2.25)	5.93 (0.99)	8.09 (1.35)	136 (23)	9.49 (1.58)
28	6.11 (0.68)	7.36 (0.82)	107 (12)	9.78 (1.09)	6.39 (0.77)	8.74 (1.05)	119 (14)	10.20 (1.23)	5.46 (0.52)	7.45 (0.70)	123 (12)	8.74 (0.83)
29	5.98 (1.04)	7.21 (1.25)	103 (18)	9.58 (1.66)	6.33 (1.01)	8.66 (1.38)	116 (18)	10.10 (1.61)	5.56 (0.47)	7.60 (0.64)	124 (10)	8.90 (0.75)
30	5.35 (0.98)	6.44 (1.18)	91 (17)	8.56 (1.57)	6.22 (0.80)	8.52 (1.09)	111 (14)	9.95 (1.27)	5.60 (0.65)	7.65 (0.89)	122 (15)	8.97 (1.04)
31												
Avg	5.60	6.72	113	8.96	4.98	6.80	107	7.98	4.44	6.33	118	7.10
n	18	18	18	18	20	20	20	20	19	17	17	19
SD	0.59	0.71	13.6	0.95	0.99	1.37	13.0	1.59	0.94	1.02	8.45	1.51
Min	4.43	5.30	90.8	7.08	3.31	4.49	84.1	5.29	2.19	5.02	103	3.51
Max	6.69	8.01	138	10.7	6.41	8.76	131	10.3	5.93	8.09	136	9.49

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for September, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	5.83 (1.12)	7.03 (1.36)	95.5 (18.40)	9.32 (1.80)	6.49 (1.28)	8.90 (1.75)	112 (22)	10.4 (2.04)	5.91 (1.00)	8.08 (1.36)	125 (21)	9.46 (1.59)
2	5.86 (1.80)	7.08 (2.17)	94.2 (29.20)	9.37 (2.88)	6.68 (1.51)	9.17 (2.07)	113 (26)	10.7 (2.41)	6.40 (2.03)	8.75 (2.77)	133 (43)	10.2 (3.24)
3	6.02 (1.85)	7.29 (2.24)	95.1 (29.60)	9.63 (2.97)	6.46 (1.41)	8.86 (1.94)	107 (24)	10.3 (2.26)	6.28 (1.95)	8.59 (2.67)	128 (40)	10.1 (3.13)
4	5.42 (1.75)	6.58 (2.13)	84.2 (27.50)	8.67 (2.81)	6.07 (1.09)	8.34 (1.49)	98.5 (18.0)	9.71 (1.74)	6.04 (1.92)	8.27 (2.62)	122 (39)	9.67 (3.07)
5												
6												
7												
8												
9												
10												
11												
12	6.18 (1.06)	7.56 (1.30)	82.0 (14.30)	9.88 (1.70)	5.43 (0.51)	7.46 (0.71)	74.1 (7.19)	8.68 (0.82)	6.95 (0.89)	9.53 (1.22)	120 (16)	11.1 (1.43)
13	6.08 (0.92)	7.45 (1.12)	79.1 (12.10)	9.74 (1.47)	5.48 (0.65)	7.54 (0.89)	73.3 (8.83)	8.78 (1.04)	6.70 (1.02)	9.19 (1.40)	114 (18)	10.7 (1.63)
14	5.97 (0.90)	7.31 (1.10)	76.0 (11.60)	9.56 (1.43)	5.30 (0.63)	7.29 (0.87)	69.3 (8.31)	8.48 (1.01)	6.00 (1.21)	8.22 (1.67)	99.8 (20.6)	9.59 (1.94)
15	5.99 (0.90)	7.33 (1.11)	74.5 (11.20)	9.58 (1.45)	5.20 (0.72)	7.16 (0.99)	66.6 (9.35)	8.33 (1.15)	5.22 (0.98)	7.17 (1.34)	85.1 (16.1)	8.36 (1.57)
16	7.64 (1.47)	9.36 (1.80)	93.2 (17.90)	12.2 (2.35)	5.34 (0.62)	7.34 (0.85)	66.8 (7.52)	8.54 (0.99)	6.27 (0.99)	8.61 (1.36)	100 (16)	10.0 (1.59)
17	8.11 (2.32)	9.93 (2.83)	96.9 (27.80)	13.0 (3.70)	5.86 (0.62)	8.06 (0.85)	71.8 (7.54)	9.38 (0.99)	6.27 (2.04)	8.62 (2.81)	98.3 (31.9)	10.0 (3.27)
18	7.37 (2.00)	9.03 (2.45)	86.2 (23.70)	11.8 (3.20)	6.47 (1.84)	8.90 (2.53)	77.7 (22.3)	10.4 (2.95)	7.34 (2.10)	10.1 (2.89)	113 (33)	11.7 (3.36)
19	6.40 (1.49)	7.84 (1.82)	73.3 (17.10)	10.2 (2.38)	6.15 (2.21)	8.46 (3.04)	72.3 (26.0)	9.84 (3.54)	6.75 (2.00)	9.30 (2.75)	102 (30)	10.8 (3.19)
20	6.66 (2.04)	8.16 (2.50)	74.7 (22.90)	10.7 (3.26)	6.67 (2.02)	9.18 (2.78)	76.7 (23.4)	10.7 (3.23)	6.53 (2.07)	9.00 (2.86)	96 (31)	10.4 (3.32)
21												
22	7.06 (1.21)	8.66 (1.48)	76.1 (12.80)	11.3 (1.93)	6.41 (1.66)	8.82 (2.28)	70.8 (18.4)	10.3 (2.65)	7.45 (1.70)	10.3 (2.34)	105 (24)	11.9 (2.72)
23	7.41 (2.69)	9.09 (3.30)	78.3 (28.50)	11.8 (4.31)	5.38 (1.26)	7.40 (1.74)	58.3 (14.0)	8.61 (2.02)	5.40 (2.85)	7.45 (3.94)	74.9 (39.8)	8.64 (4.56)
24	5.02 (4.18)	6.16 (5.14)	52.1 (43.60)	8.03 (6.69)	4.42 (1.06)	6.08 (1.46)	46.9 (11.3)	7.08 (1.69)	3.93 (2.11)	5.43 (2.92)	53.4 (28.7)	6.29 (3.38)
25	2.62 (2.13)	3.22 (2.61)	26.6 (21.60)	4.20 (3.40)	4.90 (0.83)	6.74 (1.14)	51.0 (8.57)	7.83 (1.32)	4.19 (2.27)	5.79 (3.14)	55.6 (30.2)	6.70 (3.64)
26	4.80 (0.60)	5.90 (0.73)	47.9 (5.86)	7.68 (0.95)	4.92 (0.48)	6.76 (0.66)	50.2 (4.88)	7.87 (0.77)	5.63 (0.55)	7.78 (0.76)	73.3 (7.0)	9.00 (0.88)
27	5.48 (0.90)	6.74 (1.10)	53.6 (8.70)	8.76 (1.43)	5.04 (0.80)	6.93 (1.10)	50.5 (8.03)	8.06 (1.28)	5.55 (0.89)	7.68 (1.23)	70.9 (11.3)	8.88 (1.42)
28	5.54 (0.72)	6.82 (0.88)	53.2 (6.81)	8.87 (1.14)	5.09 (0.60)	7.00 (0.82)	50.1 (5.90)	8.14 (0.96)	5.90 (1.06)	8.17 (1.46)	73.9 (13.1)	9.45 (1.69)
29												
30	5.55 (0.56)	6.84 (0.69)	51.4 (5.17)	8.88 (0.90)	5.06 (0.75)	6.96 (1.02)	48.0 (7.06)	8.09 (1.19)	5.43 (0.60)	7.52 (0.84)	65.3 (7.20)	8.69 (0.97)
Avg	6.05	7.40	73.5	9.68	5.66	7.78	71.7	9.05	6.01	8.26	95.6	9.61
n	21	21	21	21	21	21	21	21	21	21	21	21
SD	1.15	1.40	18.7	1.83	0.67	0.92	20.2	1.07	0.87	1.18	23.7	1.38
Min	2.62	3.22	26.6	4.20	4.42	6.08	46.9	7.08	3.93	5.43	53.4	6.29
Max	8.11	9.93	96.9	13.0	6.68	9.18	113	10.7	7.45	10.3	133	11.9

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for October, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	5.87 (0.84)	7.23 (1.03)	53.4 (7.53)	9.39 (1.34)	5.23 (0.61)	7.20 (0.84)	48.8 (5.65)	8.37 (0.98)	6.15 (1.27)	8.52 (1.76)	72.4 (14.8)	9.83 (2.03)
2	5.91 (1.83)	7.29 (2.26)	52.8 (16.3)	9.45 (2.93)	5.60 (1.39)	7.71 (1.91)	51.4 (12.7)	8.97 (2.22)				
3	5.59 (2.70)	6.90 (3.33)	49.1 (23.7)	8.94 (4.31)	5.66 (1.84)	7.79 (2.54)	51.1 (16.7)	9.06 (2.95)				
4	6.31 (2.30)	7.79 (2.84)	54.5 (19.9)	10.1 (3.67)	5.40 (1.55)	7.43 (2.13)	47.9 (13.7)	8.63 (2.47)	6.86 (2.33)	9.52 (3.23)	76.4 (26.1)	11.0 (3.73)
5	6.53 (1.76)	8.06 (2.17)	55.5 (14.9)	10.4 (2.81)	5.62 (1.46)	7.74 (2.02)	49.1 (12.7)	8.99 (2.34)				
6	6.25 (1.60)	7.73 (1.98)	52.3 (13.5)	10.0 (2.56)	5.54 (1.64)	7.64 (2.26)	47.7 (14.3)	8.87 (2.63)	6.01 (1.74)	8.34 (2.42)	64.4 (18.8)	9.62 (2.79)
7	6.48 (1.40)	8.02 (1.74)	53.4 (11.5)	10.4 (2.24)	5.67 (1.47)	7.82 (2.03)	48.1 (12.4)	9.08 (2.35)	6.17 (2.54)	8.57 (3.53)	64.9 (26.7)	9.87 (4.07)
8	6.81 (2.11)	8.43 (2.62)	55.2 (17.2)	10.9 (3.38)	5.83 (1.56)	8.03 (2.15)	48.8 (13.0)	9.33 (2.50)	6.07 (2.51)	8.43 (3.48)	62.7 (26.0)	9.71 (4.01)
9	7.58 (1.24)	9.38 (1.53)	60.4 (9.96)	12.1 (1.98)	6.50 (1.93)	8.96 (2.66)	53.6 (16.0)	10.4 (3.10)	6.49 (1.15)	9.02 (1.60)	65.9 (11.8)	10.4 (1.84)
10	7.76 (0.74)	9.61 (0.91)	61.0 (5.74)	12.4 (1.18)	6.41 (0.88)	8.83 (1.22)	52.1 (7.24)	10.3 (1.41)	6.51 (0.71)	9.05 (0.98)	65.0 (7.1)	10.4 (1.13)
11	8.02 (0.68)	9.94 (0.84)	62.2 (5.29)	12.8 (1.09)	6.18 (1.74)	8.51 (2.40)	49.6 (13.9)	9.89 (2.79)	6.58 (1.02)	9.16 (1.41)	64.7 (9.9)	10.5 (1.62)
12	8.41 (1.45)	10.4 (1.79)	64.3 (11.0)	13.5 (2.31)	6.83 (2.37)	9.40 (3.27)	54.0 (18.8)	10.9 (3.80)	6.44 (2.07)	8.96 (2.88)	62.2 (20.0)	10.3 (3.31)
13	8.28 (1.75)	10.3 (2.17)	62.4 (13.2)	13.2 (2.80)	6.59 (2.44)	9.08 (3.37)	51.5 (19.1)	10.5 (3.91)	7.10 (2.26)	9.89 (3.15)	67.5 (21.5)	11.4 (3.61)
14	8.36 (1.94)	10.4 (2.41)	62.2 (14.5)	13.4 (3.11)	6.32 (2.05)	8.71 (2.82)	48.8 (15.8)	10.1 (3.28)	7.47 (2.09)	10.40 (2.92)	69.9 (19.7)	12.0 (3.35)
15	8.13 (2.62)	10.1 (3.25)	59.7 (19.3)	13.0 (4.19)	6.56 (1.96)	9.05 (2.71)	50.1 (15.0)	10.5 (3.14)	7.50 (2.16)	10.50 (3.00)	69.2 (20.0)	12.0 (3.45)
16	7.45 (1.65)	9.26 (2.05)	54.0 (12.1)	11.9 (2.64)	6.43 (2.28)	8.87 (3.14)	48.5 (17.2)	10.3 (3.64)	7.33 (2.02)	10.20 (2.82)	66.5 (18.5)	11.7 (3.24)
17	7.25 (1.55)	9.01 (1.93)	51.9 (11.1)	11.6 (2.49)	6.57 (2.32)	9.07 (3.20)	49.1 (17.3)	10.5 (3.71)	7.21 (2.31)	10.10 (3.21)	64.5 (20.5)	11.5 (3.69)
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	7.12	8.81	56.7	11.4	6.06	8.34	50.0	9.69	6.71	9.33	66.9	10.7
n	17	17	17	17	17	17	17	17	14	14	14	14
SD	0.93	1.17	4.51	1.49	0.49	0.68	1.89	0.78	0.52	0.73	3.78	0.82
Min	5.59	6.90	49.1	8.94	5.23	7.20	47.7	8.37	6.01	8.34	62.2	9.62
Max	8.41	10.4	64.3	13.5	6.83	9.40	54.0	10.9	7.50	10.5	76.4	12.0

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for November, 2008.

Day	Barn 1				Barn 2				Barn 3			
	kg·d^{-1}	g·d^{-1}hd^{-2}	g·d^{-1}AU^{-1}	g·d^{-1}m^{2}	kg·d^{-1}	g·d^{-1}hd^{-2}	g·d^{-1}AU^{-1}	g·d^{-1}m^{2}	kg·d^{-1}	g·d^{-1}hd^{-2}	g·d^{-1}AU^{-1}	g·d^{-1}m^{2}
1												
2												
3												
4												
5	9.80 (1.20)	12.4 (1.52)	59.6 (7.35)	15.7 (1.92)	6.07 (0.93)	8.43 (1.29)	38.6 (5.88)	9.71 (1.49)	6.64 (1.13)	9.29 (1.58)	47.9 (8.15)	10.6 (1.81)
6	9.15 (1.63)	11.6 (2.06)	55.3 (9.84)	14.6 (2.60)	6.72 (2.41)	9.33 (3.35)	42.3 (15.2)	10.7 (3.86)	6.35 (1.42)	8.88 (1.99)	45.4 (10.2)	10.2 (2.28)
7	8.55 (2.34)	10.9 (2.97)	51.4 (14.1)	13.7 (3.75)	6.24 (2.17)	8.67 (3.02)	39.0 (13.6)	9.99 (3.47)	6.31 (1.73)	8.84 (2.43)	44.8 (12.3)	10.1 (2.77)
8	7.58 (4.09)	9.63 (5.19)	45.3 (24.4)	12.1 (6.55)					6.23 (1.67)	8.72 (2.33)	43.9 (11.7)	9.97 (2.67)
9	2.84 (2.04)	3.61 (2.59)	16.9 (12.1)	4.55 (3.27)								
10	6.40 (3.09)	8.13 (3.92)	37.7 (18.2)	10.2 (4.94)	7.00 (2.12)	16.1 (4.87)	74.0 (22.4)	11.2 (3.39)	5.84 (3.45)	8.19 (4.83)	40.6 (24.0)	9.35 (5.52)
11	7.76 (4.06)	9.87 (5.16)	45.5 (23.8)	12.4 (6.50)	6.55 (2.11)	15.1 (4.85)	68.9 (22.1)	10.5 (3.37)	5.49 (3.39)	7.69 (4.75)	37.9 (23.4)	8.78 (5.42)
12	8.16 (2.99)	10.4 (3.80)	47.5 (17.5)	13.0 (4.79)	6.82 (2.31)	15.7 (5.32)	71.2 (24.1)	10.9 (3.70)	5.13 (2.00)	7.19 (2.81)	35.2 (13.8)	8.20 (3.21)
13	8.83 (1.59)	11.2 (2.02)	51.1 (9.17)	14.1 (2.54)	7.31 (2.11)	16.8 (4.85)	75.9 (21.9)	11.7 (3.37)	6.36 (1.14)	8.92 (1.60)	43.3 (7.77)	10.2 (1.83)
14	9.71 (1.34)	12.4 (1.70)	55.9 (7.68)	15.5 (2.14)	7.31 (1.36)	16.9 (3.14)	75.5 (14.0)	11.7 (2.18)	7.39 (1.25)	10.4 (1.76)	50.1 (8.48)	11.8 (2.01)
15	10.3 (2.82)	13.1 (3.59)	59.0 (16.2)	16.5 (4.51)	7.69 (1.67)	17.7 (3.85)	79.0 (17.1)	12.3 (2.67)	7.44 (1.23)	10.4 (1.73)	50.2 (8.33)	11.9 (1.97)
16	9.37 (2.71)	11.9 (3.45)	53.3 (15.4)	15.0 (4.33)	8.05 (3.27)	18.6 (7.54)	82.3 (33.4)	12.9 (5.23)	7.66 (2.51)	10.8 (3.53)	51.4 (16.8)	12.3 (4.02)
17	8.61 (4.27)	11.0 (5.44)	48.7 (24.1)	13.8 (6.83)	8.31 (2.87)	19.2 (6.64)	84.5 (29.2)	13.3 (4.60)	6.57 (3.85)	9.23 (5.41)	43.8 (25.7)	10.5 (6.17)
18	8.96 (4.24)	14.1 (7.88)	62.9 (35.2)	14.3 (6.78)	7.34 (2.01)	17.0 (4.65)	74.4 (20.3)	11.7 (3.21)				
19	6.82 (6.05)	13.6 (12.1)	60.9 (54.1)	10.9 (9.68)	6.38 (3.82)	14.8 (8.85)	64.4 (38.6)	10.2 (6.12)	7.41 (6.01)	10.4 (8.44)	48.9 (39.6)	11.9 (9.62)
20	6.90 (5.15)	13.8 (10.3)	61.3 (45.8)	11.0 (8.24)	6.62 (3.81)	15.3 (8.82)	66.4 (38.2)	10.6 (6.09)	6.96 (5.23)	9.77 (7.35)	45.6 (34.3)	11.1 (8.37)
21	7.30 (4.65)	14.6 (9.32)	64.6 (41.2)	11.7 (7.45)								
22	6.24 (4.74)	12.5 (9.50)	55.0 (41.8)	9.99 (7.59)	5.26 (3.97)	12.2 (9.21)	52.4 (39.5)	8.42 (6.35)	7.94 (6.66)	11.2 (9.36)	51.5 (43.2)	12.7 (10.7)
23	3.92 (2.93)	7.86 (5.87)	34.4 (25.7)	6.28 (4.69)	5.43 (5.19)	12.6 (12.0)	53.8 (51.4)	8.69 (8.30)	7.95 (6.27)	11.2 (8.80)	51.3 (40.5)	12.7 (10.0)
24	5.21 (3.39)	10.5 (6.79)	45.6 (29.6)	8.34 (5.42)	6.75 (6.78)	15.7 (15.7)	66.7 (67.0)	10.8 (10.8)	8.61 (5.55)	12.1 (7.80)	55.2 (35.6)	13.8 (8.88)
25	6.80 (3.76)	13.6 (7.54)	59.2 (32.7)	10.9 (6.01)					9.26 (4.75)	14.8 (8.32)	68.4 (38.7)	14.8 (7.59)
26	6.48 (4.91)	13.0 (9.85)	56.3 (42.6)	10.4 (7.85)	5.58 (7.50)	13.0 (17.4)	54.8 (73.6)	8.93 (12.0)	7.58 (7.09)	14.5 (13.6)	67.7 (63.3)	12.1 (11.3)
27	6.43 (4.64)	12.9 (9.32)	55.7 (40.1)	10.3 (7.42)	6.68 (7.33)	15.5 (17.1)	65.3 (71.7)	10.7 (11.7)	7.49 (6.34)	14.4 (12.2)	66.7 (56.4)	12.0 (10.1)
28	7.59 (4.46)	15.3 (8.98)	65.5 (38.5)	12.1 (7.14)	8.54 (6.56)	19.9 (15.3)	83.2 (63.9)	13.7 (10.5)	8.11 (5.40)	15.6 (10.4)	72.0 (48.0)	13.0 (8.64)
29	7.67 (5.47)	15.4 (11.0)	66.0 (47.0)	12.3 (8.75)	7.23 (7.50)	16.8 (17.4)	70.2 (72.8)	11.6 (12.0)	6.07 (5.38)	11.7 (10.4)	53.8 (47.7)	9.71 (8.61)
30	8.22 (3.59)	16.6 (7.22)	70.6 (30.8)	13.2 (5.74)	9.28 (4.89)	21.6 (11.4)	89.8 (47.3)	14.9 (7.83)				
Avg	7.52	11.9	53.3	12.0	6.96	15.3	66.9	11.1	7.04	10.6	50.7	11.3
n	26	26	26	26	22	22	22	22	22	22	22	22
SD	1.73	2.69	11.2	2.76	0.98	3.39	14.3	1.57	1.01	2.33	9.78	1.62
Min	2.84	3.61	16.9	4.55	5.26	8.43	38.6	8.42	5.13	7.19	35.2	8.20
Max	10.3	16.6	70.6	16.5	9.28	21.6	89.8	14.9	9.26	15.6	72.0	14.8

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for December, 2008.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	7.82 (3.83)	15.8 (7.73)	66.9 (32.8)	12.5 (6.13)					9.39 (4.29)	18.1 (8.28)	82.9 (37.8)	15.0 (6.86)
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	2.60 (1.86)	3.09 (2.22)	70.2 (49.9)	4.16 (2.98)					1.65 (0.82)			2.65 (1.31)
31												
Avg	5.21	9.43	68.5	8.33					5.52			8.84
n	2	2	2	2	0	0	0	0	2	1	1	2
SD	2.61	6.33	1.63	4.17					3.87			6.19
Min	2.60	3.09	66.9	4.16					1.65			2.65
Max	7.82	15.8	70.2	12.50					9.39			15.0

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for January, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1					2.13 (2.04)	2.59 (2.48)	55.1 (52.8)	3.40 (3.27)				
2												
3	2.72 (3.41)	3.24 (4.06)	65.8 (82.4)	4.36 (5.46)								
4	2.74 (3.66)	3.27 (4.36)	64.9 (86.7)	4.39 (5.86)								
5	3.42 (3.38)	4.08 (4.03)	79.4 (78.5)	5.48 (5.41)								
6	4.06 (3.63)	4.84 (4.34)	92.4 (82.8)	6.49 (5.82)								
7	3.83 (3.35)	4.58 (4.01)	86.0 (75.2)	6.13 (5.37)	3.71 (2.44)	4.53 (2.98)	84.7 (55.9)	5.94 (3.91)				
8	3.05 (4.15)	3.64 (4.96)	67.1 (91.4)	4.87 (6.64)								
9	2.81 (4.18)	3.37 (5.01)	60.9 (90.5)	4.50 (6.69)	2.38 (1.87)	2.90 (2.29)	52.3 (41.2)	3.81 (3.00)				
10	3.47 (4.15)	4.16 (4.98)	74.0 (88.6)	5.55 (6.64)								
11	3.68 (4.58)	4.42 (5.50)	77.3 (96.2)	5.89 (7.33)								
12	2.52 (3.94)	3.02 (4.73)	52.0 (81.5)	4.03 (6.31)								
13	2.73 (4.31)	3.28 (5.17)	55.5 (87.5)	4.36 (6.89)	1.76 (2.69)	2.15 (3.28)	36.1 (55.3)	2.81 (4.30)				
14	2.92 (4.89)	3.51 (5.88)	58.5 (97.9)	4.67 (7.82)	2.18 (2.30)	2.66 (2.81)	44.0 (46.5)	3.48 (3.67)				
15	2.32 (3.88)	2.80 (4.67)	45.9 (76.8)	3.72 (6.20)								
16	1.88 (2.94)	2.26 (3.54)	36.5 (57.2)	3.00 (4.71)								
17	2.16 (3.47)	2.61 (4.18)	41.4 (66.3)	3.46 (5.54)	1.88 (2.08)	2.30 (2.55)	36.2 (40.1)	3.00 (3.32)				
18												
19	2.82 (4.32)	3.40 (5.21)	52.2 (79.9)	4.51 (6.91)	2.95 (2.18)	3.63 (2.68)	55.1 (40.6)	4.72 (3.49)				
20	2.37 (3.77)	2.86 (4.55)	43.2 (68.7)	3.79 (6.03)	2.61 (1.97)	3.21 (2.43)	47.9 (36.2)	4.18 (3.16)				
21												
22												
23	2.36 (3.38)	2.85 (4.08)	40.7 (58.4)	3.77 (5.41)								
24	2.86 (4.03)	3.46 (4.87)	48.5 (68.2)	4.58 (6.44)								
25												
26	2.18 (3.82)	2.63 (4.61)	35.5 (62.4)	3.48 (6.11)	2.66 (3.24)	3.27 (3.99)	43.6 (53.3)	4.25 (5.19)				
27	2.48 (3.73)	3.00 (4.51)	39.7 (59.6)	3.98 (5.96)								
28	3.42 (3.04)	4.13 (3.68)	53.6 (47.8)	5.47 (4.87)	4.26 (2.12)	5.25 (2.61)	67.1 (33.4)	6.81 (3.39)				
29	2.79 (3.85)	3.37 (4.66)	42.9 (59.3)	4.46 (6.17)	4.11 (3.83)	5.07 (4.72)	63.5 (59.1)	6.58 (6.12)				
30	2.57 (3.89)	3.11 (4.71)	38.7 (58.7)	4.11 (6.22)								
31	2.21 (3.75)	2.68 (4.54)	32.6 (55.3)	3.54 (6.00)								
Avg	2.81	3.38	55.4	4.50	2.78	3.41	53.3	4.45				
n	25	25	25	25	11	11	11	11	0	0	0	0
SD	0.55	0.65	16.4	0.88	0.84	1.04	13.8	1.34				
Min	1.88	2.26	32.6	3.00	1.76	2.15	36.1	2.81				
Max	4.06	4.84	92.4	6.49	4.26	5.25	84.7	6.81				

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for February, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	3.08 (3.88)	3.72 (4.70)	44.5 (56.1)	4.92 (6.21)								
2	3.60 (4.14)	4.36 (5.02)	51.0 (58.7)	5.76 (6.63)								
3	2.41 (3.45)	2.92 (4.18)	33.4 (47.9)	3.85 (5.53)	3.43 (2.99)	4.24 (3.70)	47.8 (41.9)	5.49 (4.79)				
4	1.71 (2.79)	2.07 (3.39)	23.2 (38.0)	2.74 (4.47)								
5	1.68 (2.66)	2.04 (3.23)	22.3 (35.4)	2.69 (4.26)	2.43 (2.53)	3.01 (3.14)	32.5 (33.8)	3.89 (4.05)				
6	2.35 (3.22)	2.85 (3.90)	30.6 (41.9)	3.76 (5.15)								
7	3.32 (3.25)	4.03 (3.94)	42.3 (41.4)	5.31 (5.19)	4.04 (3.40)	5.01 (4.22)	51.7 (43.7)	6.46 (5.44)				
8	3.97 (3.58)	4.83 (4.35)	49.5 (44.6)	6.36 (5.72)	4.63 (2.50)	5.75 (3.10)	57.9 (31.3)	7.40 (4.00)				
9	3.02 (3.47)	3.67 (4.21)	36.9 (42.5)	4.83 (5.55)	4.62 (3.17)	5.74 (3.94)	56.7 (38.9)	7.39 (5.07)	5.44 (3.48)	6.92 (4.42)	72.6 (46.6)	8.71 (5.57)
10	3.06 (2.40)	3.72 (2.91)	36.6 (28.7)	4.90 (3.84)	4.10 (2.59)	5.10 (3.22)	49.4 (31.2)	6.57 (4.14)	6.39 (2.27)	8.13 (2.88)	83.6 (29.9)	10.2 (3.63)
11	3.75 (1.84)	4.55 (2.23)	43.8 (21.5)	5.99 (2.94)	4.18 (1.45)	5.20 (1.80)	49.1 (17.1)	6.69 (2.32)	4.49 (1.98)	5.71 (2.52)	57.6 (25.7)	7.19 (3.17)
12	3.77 (1.88)	4.58 (2.28)	43.1 (21.4)	6.03 (3.01)	4.09 (1.66)	5.09 (2.07)	47.1 (19.1)	6.55 (2.66)	4.00 (0.99)	5.09 (1.27)	50.2 (12.3)	6.40 (1.59)
13	3.76 (2.89)	4.57 (3.51)	42.0 (32.3)	6.01 (4.62)	4.44 (2.43)	5.52 (3.03)	50.0 (27.4)	7.10 (3.89)				
14	3.73 (3.62)	4.54 (4.40)	40.9 (39.7)	5.97 (5.79)	4.24 (3.79)	5.28 (4.72)	46.7 (41.8)	6.78 (6.07)				
15	3.14 (3.95)	3.82 (4.81)	33.7 (42.4)	5.03 (6.33)								
16	2.34 (3.35)	2.85 (4.08)	24.6 (35.4)	3.75 (5.37)	3.99 (3.70)	4.98 (4.61)	42.3 (39.2)	6.39 (5.92)				
17	2.08 (2.52)	2.53 (3.06)	21.4 (25.9)	3.32 (4.03)	3.23 (3.04)	4.03 (3.79)	33.6 (31.7)	5.17 (4.87)				
18	2.40 (1.82)	2.92 (2.21)	24.2 (18.4)	3.84 (2.91)	3.88 (2.14)	4.84 (2.66)	39.5 (21.7)	6.21 (3.42)				
19	3.33 (1.38)	4.06 (1.68)	33.0 (13.6)	5.32 (2.21)	4.37 (1.21)	5.46 (1.50)	43.7 (12.1)	6.99 (1.93)	3.79 (0.80)	4.86 (1.03)	41.4 (8.7)	6.07 (1.28)
20												
21												
22												
23	2.86 (3.60)	3.50 (4.39)	26.3 (33.0)	4.58 (5.75)	4.02 (3.46)	5.02 (4.32)	37.2 (32.0)	6.43 (5.53)				
24	2.70 (3.36)	3.30 (4.11)	24.3 (30.3)	4.33 (5.38)	3.09 (3.11)	3.86 (3.89)	28.1 (28.4)	4.94 (4.98)	4.24 (4.05)	5.44 (5.20)	41.9 (40.0)	6.78 (6.48)
25	3.55 (3.38)	4.33 (4.13)	31.3 (29.8)	5.67 (5.40)	3.49 (2.84)	4.37 (3.55)	31.1 (25.3)	5.59 (4.55)	3.75 (3.64)	4.82 (4.67)	36.4 (35.4)	6.00 (5.82)
26	4.42 (2.88)	5.40 (3.53)	38.3 (25.0)	7.07 (4.61)	4.62 (2.27)	5.78 (2.84)	40.5 (19.9)	7.39 (3.63)	4.26 (2.31)	5.47 (2.97)	40.5 (22.1)	6.81 (3.70)
27												
28	5.41 (2.28)	6.62 (2.78)	45.3 (19.0)	8.65 (3.64)	5.37 (2.51)	6.72 (3.14)	45.5 (21.2)	8.60 (4.01)	4.71 (2.54)	6.05 (3.26)	43.2 (23.2)	7.53 (4.06)
Avg	3.14	3.82	35.1	5.03	4.01	5.00	43.7	6.42	4.56	5.83	51.9	7.30
n	24	24	24	24	19	19	19	19	9	9	9	9
SD	0.85	1.04	8.89	1.36	0.65	0.81	8.21	1.04	0.81	1.02	15.4	1.30
Min	1.68	2.04	21.4	2.69	2.43	3.01	28.1	3.89	3.75	4.82	36.4	6.00
Max	5.41	6.62	51.0	8.65	5.37	6.72	57.9	8.60	6.39	8.13	83.6	10.2

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for March, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	3.65 (4.12)	4.47 (5.04)	30.1 (33.9)	5.84 (6.58)	4.63 (3.51)	5.80 (4.39)	38.6 (29.2)	7.41 (5.61)	3.40 (4.08)	4.37 (5.25)	30.7 (36.8)	5.44 (6.53)
2	3.49 (4.14)	4.28 (5.07)	28.3 (33.5)	5.59 (6.62)	5.09 (3.28)	6.37 (4.11)	41.8 (26.9)	8.15 (5.25)				
3	3.09 (3.89)	3.78 (4.76)	24.6 (31.0)	4.94 (6.22)	3.95 (3.02)	4.95 (3.78)	31.9 (24.4)	6.32 (4.83)	4.28 (4.91)	5.50 (6.31)	37.3 (42.8)	6.84 (7.85)
4	3.79 (4.11)	4.64 (5.03)	29.7 (32.2)	6.07 (6.57)	3.58 (3.07)	4.48 (3.85)	28.4 (24.4)	5.72 (4.92)	4.98 (5.17)	6.40 (6.64)	42.7 (44.3)	7.97 (8.26)
5	3.68 (3.35)	4.51 (4.10)	28.4 (25.9)	5.89 (5.36)	4.53 (2.49)	5.69 (3.13)	35.6 (19.5)	7.26 (3.99)	4.47 (3.76)	5.75 (4.83)	37.7 (31.8)	7.15 (6.01)
6	4.30 (2.08)	5.26 (2.54)	32.6 (15.8)	6.87 (3.32)	5.65 (1.67)	7.09 (2.10)	43.7 (13.0)	9.03 (2.67)	5.10 (1.47)	6.56 (1.88)	42.4 (12.3)	8.16 (2.34)
7	5.59 (1.50)	6.84 (1.83)	41.9 (11.2)	8.94 (2.40)	5.86 (1.29)	7.37 (1.62)	44.7 (9.87)	9.37 (2.06)	5.65 (1.16)	7.27 (1.50)	46.2 (9.57)	9.04 (1.86)
8												
9	5.83 (1.22)	7.14 (1.49)	42.5 (8.86)	9.34 (1.95)	5.54 (1.32)	6.98 (1.67)	41.2 (9.79)	8.86 (2.11)	5.76 (1.04)	7.41 (1.34)	45.7 (8.20)	9.21 (1.66)
10	6.29 (2.19)	7.69 (2.68)	45.1 (15.7)	10.1 (3.50)	5.28 (1.84)	6.66 (2.31)	38.8 (13.5)	8.45 (2.94)	6.01 (2.21)	7.74 (2.85)	47.0 (17.4)	9.62 (3.54)
11	6.21 (1.07)	7.60 (1.31)	44.0 (7.61)	9.93 (1.71)	5.33 (1.05)	6.73 (1.32)	38.7 (7.59)	8.53 (1.67)	5.72 (0.96)	7.37 (1.23)	44.2 (7.45)	9.15 (1.53)
12	5.84 (1.46)	7.14 (1.79)	40.8 (10.3)	9.34 (2.34)	5.01 (1.43)	6.31 (1.81)	35.9 (10.2)	8.01 (2.29)	4.45 (1.78)	5.73 (2.29)	33.9 (13.5)	7.11 (2.84)
13	4.61 (3.41)	5.65 (4.18)	31.8 (23.5)	7.38 (5.46)	5.08 (3.45)	6.41 (4.35)	36.0 (24.4)	8.13 (5.51)	3.73 (3.20)	4.81 (4.13)	28.1 (24.0)	5.97 (5.12)
14	5.68 (3.59)	6.95 (4.40)	38.7 (24.5)	9.08 (5.75)	5.52 (3.49)	6.97 (4.41)	38.6 (24.4)	8.84 (5.59)	4.41 (3.59)	5.69 (4.63)	32.7 (26.6)	7.05 (5.74)
15	6.20 (2.30)	7.59 (2.81)	41.8 (15.5)	9.92 (3.67)	6.50 (2.69)	8.21 (3.40)	45.0 (18.6)	10.4 (4.31)	5.96 (2.51)	7.71 (3.24)	43.7 (18.4)	9.54 (4.01)
16	6.95 (1.62)	8.51 (1.99)	46.3 (10.8)	11.1 (2.60)	7.18 (2.05)	9.06 (2.59)	49.1 (14.0)	11.5 (3.29)	6.56 (2.30)	8.48 (2.98)	47.5 (16.7)	10.5 (3.69)
17	6.92 (1.56)	8.48 (1.92)	45.6 (10.3)	11.1 (2.50)	6.11 (2.00)	7.72 (2.52)	41.4 (13.6)	9.78 (3.20)	6.41 (2.03)	8.29 (2.63)	45.9 (14.6)	10.3 (3.25)
18	7.51 (1.74)	9.21 (2.13)	49.0 (11.3)	12.0 (2.78)	6.28 (1.42)	7.93 (1.80)	42.1 (9.58)	10.0 (2.28)	6.07 (1.76)	7.85 (2.27)	43.0 (12.5)	9.71 (2.81)
19	6.37 (1.93)	7.81 (2.37)	41.1 (12.5)	10.2 (3.09)	6.38 (1.46)	8.06 (1.85)	42.3 (9.75)	10.2 (2.34)	5.98 (1.81)	7.74 (2.34)	41.9 (12.8)	9.56 (2.90)
20	5.46 (1.09)	6.69 (1.33)	34.9 (6.93)	8.73 (1.74)	5.90 (1.19)	7.45 (1.50)	38.8 (7.79)	9.44 (1.90)	5.79 (1.78)	7.49 (2.30)	40.1 (12.3)	9.26 (2.84)
21	5.87 (1.30)	7.20 (1.60)	37.2 (8.22)	9.40 (2.08)	6.71 (1.92)	8.48 (2.43)	43.7 (12.5)	10.7 (3.07)	6.57 (2.38)	8.51 (3.08)	45.1 (16.3)	10.5 (3.80)
22												
23	6.93 (1.57)	8.51 (1.92)	43.1 (9.78)	11.1 (2.51)	6.84 (1.73)	8.65 (2.19)	43.7 (11.1)	10.9 (2.77)	7.02 (1.84)	9.09 (2.38)	47.2 (12.4)	11.2 (2.94)
24	6.85 (1.61)	8.41 (1.98)	42.3 (9.95)	11.0 (2.57)	5.76 (2.22)	7.28 (2.81)	36.5 (14.1)	9.21 (3.56)	5.64 (1.81)	7.31 (2.34)	37.6 (12.1)	9.03 (2.89)
25	6.46 (1.39)	7.94 (1.71)	39.6 (8.53)	10.3 (2.22)	5.73 (1.99)	7.26 (2.52)	36.1 (12.6)	9.17 (3.19)	5.99 (1.50)	7.76 (1.94)	39.5 (9.88)	9.58 (2.39)
26	7.62 (1.60)	9.37 (1.97)	46.3 (9.70)	12.2 (2.56)	6.81 (1.12)	8.63 (1.42)	42.5 (6.96)	10.9 (1.79)	5.96 (1.19)	7.73 (1.54)	39.0 (7.81)	9.54 (1.91)
27	8.27 (2.25)	10.2 (2.76)	50.0 (13.5)	13.2 (3.59)	6.51 (0.92)	8.25 (1.17)	40.4 (5.71)	10.4 (1.48)	6.07 (1.19)	7.87 (1.54)	39.4 (7.69)	9.72 (1.90)
28	8.74 (1.57)	10.8 (1.94)	52.5 (9.42)	14.0 (2.52)	6.34 (0.93)	8.04 (1.18)	39.1 (5.70)	10.1 (1.48)	6.61 (1.16)	8.58 (1.51)	42.6 (7.47)	10.6 (1.86)
29	6.98 (2.37)	8.60 (2.93)	41.6 (14.2)	11.2 (3.80)	5.60 (1.12)	7.11 (1.42)	34.3 (6.89)	8.95 (1.79)	5.45 (1.25)	7.07 (1.62)	34.9 (8.05)	8.72 (2.00)
30	6.72 (0.90)	8.29 (1.11)	39.8 (5.36)	10.8 (1.44)	6.69 (1.49)	8.51 (1.89)	40.7 (9.03)	10.7 (2.38)	5.62 (1.24)	7.29 (1.61)	35.7 (7.89)	8.99 (1.99)
31	6.49 (1.29)	8.00 (1.59)	38.2 (7.61)	10.4 (2.07)	5.81 (1.79)	7.39 (2.28)	35.1 (10.9)	9.30 (2.87)	5.75 (1.18)	7.47 (1.53)	36.3 (7.47)	9.20 (1.89)
Avg	5.94	7.29	39.6	9.51	5.73	7.24	39.5	9.17	5.55	7.17	40.3	8.88
n	29	29	29	29	29	29	29	29	28	28	28	28
SD	1.43	1.76	6.91	2.28	0.85	1.10	4.28	1.37	0.88	1.15	5.18	1.40
Min	3.09	3.78	24.6	4.94	3.58	4.48	28.4	5.72	3.40	4.37	28.1	5.44
Max	8.74	10.8	52.5	14.0	7.18	9.06	49.1	11.5	7.02	9.09	47.5	11.2

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for April, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	6.89 (1.41)	8.50 (1.73)	40.4 (8.23)	11.0 (2.25)	6.01 (1.08)	7.65 (1.38)	36.0 (6.48)	9.62 (1.73)	5.96 (1.21)	7.74 (1.58)	37.3 (7.57)	9.53 (1.94)
2	6.09 (1.16)	7.52 (1.43)	35.5 (6.78)	9.75 (1.86)	6.26 (0.98)	7.97 (1.24)	37.3 (5.80)	10.0 (1.56)	5.95 (1.09)	7.73 (1.42)	37.0 (6.80)	9.51 (1.75)
3	5.82 (1.10)	7.19 (1.36)	33.7 (6.37)	9.32 (1.76)	5.84 (1.09)	7.43 (1.39)	34.5 (6.48)	9.35 (1.75)	4.73 (1.38)	6.15 (1.79)	29.3 (8.54)	7.57 (2.20)
4	5.74 (1.01)	7.09 (1.24)	33.1 (5.81)	9.19 (1.61)	5.75 (0.94)	7.32 (1.19)	33.8 (5.51)	9.21 (1.50)	5.22 (0.88)	6.79 (1.14)	32.1 (5.41)	8.35 (1.40)
5	4.93 (1.08)	6.09 (1.34)	28.3 (6.23)	7.89 (1.73)	6.31 (1.23)	8.03 (1.57)	36.8 (7.20)	10.1 (1.97)	5.18 (1.31)	6.74 (1.71)	31.6 (8.03)	8.29 (2.10)
6	4.97 (0.99)	6.13 (1.23)	28.3 (5.67)	7.95 (1.59)	5.75 (0.91)	8.26 (1.33)	38.3 (6.29)	9.20 (1.46)	5.55 (0.96)	7.22 (1.25)	33.7 (5.88)	8.87 (1.54)
7	5.37 (1.11)	6.63 (1.37)	30.4 (6.30)	8.59 (1.78)	5.95 (1.61)	9.90 (2.68)	46.4 (12.5)	9.52 (2.57)	5.31 (1.05)	6.91 (1.37)	32.1 (6.35)	8.49 (1.68)
8	5.91 (1.09)	7.30 (1.34)	33.4 (6.15)	9.46 (1.74)	5.56 (1.58)	9.26 (2.63)	43.1 (12.3)	8.90 (2.53)	5.67 (1.17)	7.39 (1.52)	34.1 (7.03)	9.08 (1.87)
9	5.39 (0.83)	6.66 (1.02)	30.3 (4.66)	8.63 (1.33)	5.29 (0.89)	8.81 (1.48)	40.8 (6.84)	8.47 (1.42)	5.37 (0.93)	6.99 (1.21)	32.1 (5.55)	8.59 (1.48)
10	5.61 (1.39)	6.92 (1.72)	31.3 (7.80)	8.97 (2.23)	5.63 (0.94)	9.38 (1.57)	43.2 (7.20)	9.01 (1.51)	5.54 (1.03)	7.21 (1.34)	32.9 (6.12)	8.86 (1.65)
11	6.43 (1.16)	7.93 (1.43)	35.8 (6.47)	10.3 (1.86)	5.69 (1.04)	9.49 (1.73)	43.4 (7.89)	9.10 (1.66)	6.01 (1.57)	7.82 (2.04)	35.5 (9.27)	9.61 (2.51)
12	6.81 (1.09)	8.41 (1.34)	37.7 (6.01)	10.9 (1.74)	6.31 (1.57)	10.5 (2.63)	47.9 (12.0)	10.1 (2.52)	5.82 (1.45)	7.58 (1.89)	34.2 (8.55)	9.31 (2.33)
13	7.32 (1.40)	9.03 (1.73)	40.3 (7.72)	11.7 (2.24)	6.65 (1.45)	11.1 (2.42)	50.3 (11.0)	10.6 (2.32)	6.17 (1.18)	8.04 (1.54)	36.1 (6.90)	9.88 (1.89)
14	7.35 (1.45)	9.07 (1.79)	40.3 (7.94)	11.8 (2.31)	6.39 (1.12)	10.7 (1.86)	48.1 (8.40)	10.2 (1.79)	6.96 (1.00)	9.07 (1.30)	40.5 (5.77)	11.1 (1.59)
15	7.35 (1.53)	9.08 (1.89)	40.2 (8.37)	11.8 (2.45)	6.09 (1.02)	10.2 (1.71)	45.6 (7.67)	9.74 (1.64)	6.40 (1.13)	8.34 (1.47)	37.1 (6.55)	10.2 (1.81)
16	6.19 (1.36)	7.65 (1.68)	33.7 (7.43)	9.91 (2.18)	6.08 (1.25)	10.2 (2.09)	45.4 (9.32)	9.73 (2.00)	5.14 (1.32)	6.70 (1.72)	29.7 (7.64)	8.23 (2.12)
17	5.14 (1.40)	7.19 (1.80)	31.9 (7.97)	8.22 (2.24)	5.63 (2.06)	9.43 (3.45)	41.9 (15.3)	9.01 (3.30)	5.32 (1.23)	6.92 (1.60)	30.5 (7.05)	8.51 (1.97)
18	4.87 (1.14)	7.80 (1.82)	34.7 (8.12)	7.80 (1.82)	5.32 (1.48)	8.91 (2.47)	39.4 (11.0)	8.51 (2.36)	5.16 (0.93)	6.71 (1.21)	29.4 (5.32)	8.25 (1.49)
19	5.23 (1.03)	8.36 (1.64)	37.1 (7.28)	8.36 (1.64)	5.50 (1.32)	9.22 (2.21)	40.6 (9.74)	8.80 (2.11)	5.73 (1.06)	7.46 (1.38)	32.5 (6.00)	9.16 (1.70)
20	5.91 (1.26)	9.45 (2.02)	41.7 (8.93)	9.45 (2.02)	5.73 (1.62)	9.61 (2.72)	42.1 (11.9)	9.16 (2.59)	6.13 (0.84)	7.98 (1.09)	34.6 (4.73)	9.81 (1.34)
21	5.74 (1.10)	9.89 (1.98)	43.9 (8.84)	9.18 (1.76)	4.48 (0.83)	8.10 (1.41)	35.6 (6.20)	7.16 (1.33)	5.80 (0.85)	8.57 (1.37)	37.0 (5.90)	9.29 (1.36)
22	6.37 (1.05)	12.0 (1.98)	53.4 (8.81)	10.2 (1.68)	4.60 (1.05)	9.14 (2.09)	40.2 (9.16)	7.36 (1.68)	5.33 (0.96)	9.14 (1.65)	39.3 (7.08)	8.52 (1.54)
23	5.59 (1.98)	10.5 (3.72)	46.8 (16.6)	8.94 (3.16)	4.50 (1.32)	8.96 (2.63)	39.2 (11.5)	7.20 (2.11)	4.93 (1.55)	10.0 (2.21)	43.7 (9.47)	7.89 (2.49)
24												
25	4.65 (2.28)	8.77 (4.29)	38.8 (19.0)	7.45 (3.64)	4.84 (0.83)	9.63 (1.65)	41.9 (7.21)	7.74 (1.33)	3.82 (0.76)	9.60 (1.91)	42.4 (8.44)	6.11 (1.21)
26	5.13 (1.43)	9.67 (2.70)	42.6 (11.9)	8.20 (2.29)	4.48 (0.72)	8.92 (1.43)	38.7 (6.22)	7.16 (1.15)	3.94 (0.96)	9.90 (2.41)	43.5 (10.6)	6.30 (1.53)
27	4.85 (1.66)	9.16 (3.14)	40.2 (13.8)	7.77 (2.66)	4.68 (0.89)	9.32 (1.76)	40.3 (7.63)	7.49 (1.42)	3.89 (0.81)	9.79 (2.04)	42.9 (8.95)	6.22 (1.30)
28	5.23 (1.47)	9.88 (2.77)	43.1 (12.1)	8.37 (2.34)	4.55 (1.08)	9.07 (2.15)	39.1 (9.27)	7.28 (1.73)	4.54 (0.91)	11.4 (2.28)	49.9 (9.97)	7.26 (1.45)
29	5.64 (1.64)	10.7 (3.10)	46.4 (13.5)	9.03 (2.62)	4.79 (0.79)	9.56 (1.57)	41.0 (6.76)	7.67 (1.26)	4.72 (0.82)	11.9 (2.07)	51.8 (9.02)	7.56 (1.31)
30	5.60 (1.16)	10.6 (2.19)	45.8 (9.48)	8.95 (1.85)	4.98 (0.63)	9.94 (1.27)	42.5 (5.40)	7.97 (1.01)	5.00 (0.71)	12.6 (1.78)	54.7 (7.72)	8.00 (1.13)
Avg	5.80	8.45	37.9	9.28	5.51	9.17	41.1	8.81	5.35	8.29	37.2	8.57
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	0.76	1.47	6.05	1.22	0.65	0.94	4.06	1.04	0.73	1.63	6.57	1.16
Min	4.65	6.09	28.3	7.45	4.48	7.32	33.8	7.16	3.82	6.15	29.3	6.11
Max	7.35	12.0	53.4	11.8	6.65	11.1	50.3	10.6	6.96	12.60	54.7	11.1

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for May, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	5.46 (1.65)	10.3 (3.11)	44.5 (13.40)	8.73 (2.63)	5.31 (0.70)	10.6 (1.40)	45.2 (6.00)	8.49 (1.13)	4.36 (0.99)	11.0 (2.50)	47.6 (10.8)	6.98 (1.58)
2	5.49 (1.62)	10.4 (3.07)	44.5 (13.20)	8.78 (2.60)	5.16 (0.61)	10.3 (1.22)	43.8 (5.21)	8.25 (0.98)	4.39 (0.48)	11.1 (1.22)	47.7 (5.25)	7.02 (0.77)
3												
4	6.00 (1.70)	11.4 (3.22)	48.2 (13.70)	9.60 (2.72)	5.49 (0.64)	11.0 (1.29)	46.4 (5.44)	8.78 (1.03)	4.97 (0.67)	12.5 (1.70)	53.7 (7.30)	7.95 (1.08)
5	7.41 (1.33)	14.0 (2.53)	59.1 (10.60)	11.9 (2.13)	6.06 (1.14)	12.1 (2.29)	51.0 (9.62)	9.69 (1.83)	5.80 (1.22)	14.7 (3.09)	62.5 (13.2)	9.28 (1.96)
6	7.08 (2.32)	66 (424)	1280 (10600)	11.3 (3.71)	5.65 (0.57)	11.3 (1.15)	47.4 (4.81)	9.04 (0.92)	5.07 (1.15)	12.8 (2.90)	54.5 (12.4)	8.12 (1.84)
7	6.87 (2.50)			11.0 (4.00)	6.16 (1.01)	12.3 (2.02)	51.4 (8.38)	9.85 (1.61)	5.39 (0.89)	13.6 (2.24)	57.7 (9.50)	8.62 (1.42)
8	3.10 (1.66)			4.96 (2.66)	5.96 (0.83)	11.9 (1.66)	49.5 (6.89)	9.53 (1.33)	4.53 (1.13)	11.4 (2.86)	48.3 (12.1)	7.25 (1.81)
9	2.64 (1.03)			4.22 (1.64)	5.84 (0.84)	11.7 (1.68)	48.3 (6.97)	9.34 (1.34)	4.18 (0.49)	10.5 (1.24)	44.4 (5.25)	6.68 (0.79)
10	2.52 (0.85)			4.04 (1.36)	6.40 (0.78)	12.8 (1.56)	52.6 (6.44)	10.2 (1.25)	5.05 (0.81)	12.8 (2.05)	53.5 (8.62)	8.08 (1.30)
11	2.30 (0.71)			3.67 (1.14)	6.20 (0.97)	12.4 (1.95)	50.7 (7.94)	9.92 (1.56)	5.21 (0.79)	13.1 (1.99)	54.9 (8.34)	8.33 (1.26)
12	2.00 (0.67)			3.20 (1.06)	6.40 (1.51)	12.8 (3.02)	52.0 (12.3)	10.2 (2.41)	5.37 (0.97)	13.6 (2.44)	56.4 (10.2)	8.59 (1.54)
13	2.03 (0.95)			3.25 (1.52)	6.01 (1.85)			9.62 (2.96)	5.18 (0.84)	13.1 (2.11)	54.1 (8.73)	8.29 (1.34)
14	1.74 (0.67)			2.79 (1.07)	4.71 (1.36)			7.54 (2.17)	5.59 (0.83)	14.1 (2.09)	58.2 (8.61)	8.95 (1.32)
15	1.73 (0.53)			2.78 (0.84)	3.09 (0.82)			4.95 (1.31)	5.52 (0.71)	13.9 (1.80)	57.1 (7.39)	8.83 (1.14)
16												
17					2.12 (0.83)			3.39 (1.33)				
18					2.32 (0.26)			3.72 (0.42)	5.30 (1.43)	44.2 (70.9)	649 (1570)	8.48 (2.29)
19					1.62 (0.79)			2.59 (1.27)				
20					1.68 (0.50)			2.69 (0.79)	2.30 (1.30)			3.68 (2.09)
21					1.44 (0.54)			2.30 (0.86)	2.06 (0.78)			3.30 (1.24)
22					1.36 (0.60)			2.17 (0.96)	1.94 (0.88)			3.11 (1.41)
23	1.56 (0.97)			2.50 (1.55)	1.48 (0.59)			2.36 (0.95)	2.02 (0.89)			3.24 (1.42)
24	1.48 (0.72)			2.37 (1.16)								
25												
26	3.27 (0.83)	4.57 (1.16)	101 (25.70)	5.23 (1.32)								
27	2.83 (1.09)	3.96 (1.53)	85.3 (33.40)	4.53 (1.75)								
28	3.80 (1.02)	5.32 (1.43)	112 (29.80)	6.09 (1.63)								
29	3.52 (1.00)	4.94 (1.39)	101 (29.10)	5.64 (1.59)								
30												
31	2.33 (0.84)	3.27 (1.18)	64.6 (23.50)	3.73 (1.35)	1.16 (0.92)	3.45 (3.01)	119 (117)	1.86 (1.47)				
Avg	3.58	13.4	194	5.73	4.16	11.1	54.7	6.66	4.43	14.8	93.3	7.09
n	21	10	10	21	22	12	12	22	19	15	15	19
SD	1.91	17.9	363	3.06	2.03	2.43	19.5	3.25	1.29	7.94	148	2.06
Min	1.48	3.27	44.5	2.37	1.16	3.45	43.8	1.86	1.94	10.5	44.4	3.11
Max	7.41	66.0	1280	11.9	6.40	12.8	119	10.2	5.80	44.2	649	9.28

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for June, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	2.28 (0.62)	3.21 (0.87)	62.2 (17.0)	3.64 (0.99)								
2	2.49 (0.49)	3.51 (0.69)	67.0 (13.2)	3.98 (0.78)	4.40 (0.62)	11.0 (1.55)	293 (40.8)	7.03 (0.99)				
3	2.07 (0.53)	2.94 (0.75)	55.3 (14.3)	3.32 (0.85)	3.68 (0.58)	9.18 (1.44)	243 (38.0)	5.89 (0.92)				
4	2.25 (0.50)	3.19 (0.71)	59.0 (13.2)	3.60 (0.80)	3.26 (0.52)	5.49 (2.31)	142 (62.7)	5.22 (0.83)				
5	2.51 (0.40)	3.58 (0.56)	65.1 (10.4)	4.02 (0.63)	3.04 (0.44)	3.83 (0.55)	94.6 (13.7)	4.87 (0.70)	2.25 (0.60)	2.77 (0.74)	77.4 (21.0)	3.59 (0.96)
6	2.95 (0.77)	4.22 (1.10)	75.6 (19.6)	4.72 (1.23)	3.44 (0.63)	4.33 (0.80)	105 (19.5)	5.50 (1.01)				
7	2.72 (0.60)	3.90 (0.87)	68.8 (15.4)	4.35 (0.97)	2.93 (0.40)	3.70 (0.51)	87.4 (12.2)	4.69 (0.64)	3.47 (1.05)	4.28 (1.29)	111 (34.5)	5.55 (1.68)
8	2.65 (0.71)	3.81 (1.02)	66.4 (17.8)	4.24 (1.13)	2.99 (0.41)	3.77 (0.52)	87.4 (12.3)	4.78 (0.66)	3.17 (0.65)	3.92 (0.80)	99.1 (20.5)	5.08 (1.03)
9	2.97 (0.46)	4.28 (0.67)	73.4 (11.4)	4.75 (0.74)	3.06 (0.49)	3.88 (0.62)	88.3 (14.0)	4.90 (0.78)	3.36 (0.58)	4.14 (0.72)	102 (17.5)	5.37 (0.93)
10	3.13 (0.65)	4.51 (0.94)	76.2 (16.0)	5.00 (1.05)	3.07 (0.49)	3.91 (0.62)	87.1 (14.1)	4.92 (0.79)	3.50 (0.61)	4.32 (0.76)	104 (18.3)	5.60 (0.98)
11	3.05 (0.53)	4.40 (0.77)	73.4 (13.0)	4.87 (0.86)	2.90 (0.36)	3.70 (0.46)	80.7 (10.0)	4.64 (0.57)	2.93 (0.65)	3.62 (0.80)	85.1 (19.1)	4.69 (1.04)
12	2.98 (0.71)	4.31 (1.03)	70.8 (17.2)	4.76 (1.14)	2.78 (0.46)	3.56 (0.59)	76.3 (12.8)	4.45 (0.74)	3.11 (0.79)	3.84 (0.97)	88.1 (21.9)	4.97 (1.26)
13	2.74 (0.47)	3.98 (0.68)	64.3 (11.0)	4.38 (0.75)	2.66 (0.58)	3.42 (0.74)	72.1 (15.7)	4.26 (0.92)	3.24 (0.53)	4.00 (0.66)	89.9 (15.0)	5.18 (0.85)
14	2.92 (0.66)	4.24 (0.95)	67.5 (15.3)	4.67 (1.05)	2.92 (0.45)	3.76 (0.58)	78.0 (12.2)	4.67 (0.72)	3.35 (0.50)	4.15 (0.61)	91.4 (13.6)	5.37 (0.79)
15	2.95 (0.63)	4.30 (0.92)	67.3 (14.3)	4.72 (1.01)	3.01 (0.54)	3.88 (0.69)	79.2 (14.3)	4.82 (0.86)	3.35 (0.54)	4.15 (0.67)	89.6 (14.7)	5.36 (0.87)
16	3.96 (0.45)	5.78 (0.66)	89.0 (10.1)	6.34 (0.73)	2.99 (0.36)	3.87 (0.47)	77.6 (9.4)	4.79 (0.58)	3.28 (0.25)	4.06 (0.31)	86.0 (6.6)	5.24 (0.41)
17	3.42 (0.67)	5.00 (0.98)	75.9 (15.0)	5.48 (1.07)	3.54 (0.70)	4.57 (0.90)	90.3 (17.6)	5.66 (1.11)	3.52 (0.56)	4.36 (0.69)	90.9 (14.3)	5.63 (0.89)
18	3.40 (0.72)	4.97 (1.05)	74.2 (15.9)	5.43 (1.15)	3.10 (0.50)	4.02 (0.64)	78.2 (12.6)	4.97 (0.79)	3.60 (0.63)	4.46 (0.78)	91.2 (15.9)	5.75 (1.01)
19	3.63 (0.78)	5.32 (1.14)	78.1 (16.8)	5.81 (1.25)	2.71 (0.51)	3.51 (0.66)	67.3 (12.8)	4.33 (0.82)	3.58 (0.65)	4.44 (0.80)	89.3 (16.2)	5.73 (1.03)
20	3.12 (0.36)	4.57 (0.53)	66.1 (7.8)	4.99 (0.58)	2.96 (0.33)	3.85 (0.43)	72.4 (8.2)	4.74 (0.53)	3.14 (0.61)	3.90 (0.75)	77.0 (15.0)	5.03 (0.97)
21	3.16 (0.62)	4.64 (0.92)	65.9 (13.2)	5.06 (1.00)	2.28 (0.88)	2.96 (1.14)	54.9 (21.2)	3.65 (1.40)	3.08 (0.74)	3.83 (0.91)	74.3 (17.9)	4.93 (1.18)
22	4.64 (0.89)	6.82 (1.31)	95.0 (18.0)	7.43 (1.42)	3.11 (0.80)	4.04 (1.03)	73.6 (18.8)	4.97 (1.27)	3.22 (0.53)	4.01 (0.66)	76.3 (12.6)	5.16 (0.85)
23	3.47 (1.11)	5.09 (1.63)	69.7 (22.6)	5.55 (1.77)	2.77 (1.04)	3.61 (1.35)	64.7 (24.3)	4.44 (1.66)	3.34 (0.55)	4.15 (0.68)	77.6 (12.6)	5.34 (0.87)
24	3.64 (0.86)	5.34 (1.27)	71.8 (17.3)	5.82 (1.38)	3.75 (0.51)	4.89 (0.66)	85.9 (11.5)	6.00 (0.81)	3.45 (0.73)	4.30 (0.91)	78.8 (16.7)	5.52 (1.17)
25	3.62 (1.16)	5.31 (1.70)	70.2 (22.4)	5.79 (1.85)	2.95 (0.77)	3.85 (1.01)	66.5 (17.6)	4.71 (1.24)	3.41 (0.65)	4.25 (0.80)	76.6 (14.5)	5.46 (1.03)
26					3.43 (0.54)	4.48 (0.70)	76.0 (11.8)	5.48 (0.86)	3.71 (0.77)	4.63 (0.96)	81.7 (17.1)	5.94 (1.24)
27					2.96 (0.77)	3.87 (1.00)	64.7 (17.0)	4.74 (1.23)				
28	2.81 (0.81)	4.14 (1.19)	51.6 (15.0)	4.50 (1.29)	2.99 (0.49)	3.92 (0.64)	64.1 (10.5)	4.79 (0.79)	3.05 (0.77)	3.80 (0.96)	64.7 (16.3)	4.88 (1.23)
29	3.24 (0.96)	4.78 (1.41)	58.4 (17.3)	5.19 (1.53)	3.37 (0.95)	4.43 (1.25)	71.2 (20.2)	5.40 (1.52)	3.43 (0.97)	4.28 (1.21)	71.3 (20.4)	5.48 (1.55)
30												
Avg	3.06	4.45	69.6	4.90	3.11	4.40	93.6	4.97	3.28	4.07	85.8	5.25
n	27	27	27	27	28	28	28	28	23	23	23	23
SD	0.55	0.84	9.01	0.88	0.40	1.66	51.4	0.63	0.29	0.37	11.0	0.47
Min	2.07	2.94	51.6	3.32	2.28	2.96	54.9	3.65	2.25	2.77	64.7	3.59
Max	4.64	6.82	95.0	7.43	4.40	11.0	293	7.03	3.71	4.63	111	5.94

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for July, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	2.91 (0.76)	4.29 (1.12)	50.5 (13.4)	4.66 (1.22)	3.74 (0.97)	4.92 (1.27)	76.2 (19.9)	5.98 (1.55)	2.88 (0.90)	3.60 (1.12)	57.7 (18.2)	4.61 (1.44)
2					3.37 (0.89)	4.45 (1.17)	67.5 (17.8)	5.40 (1.42)	3.60 (1.05)	4.50 (1.31)	70.6 (20.5)	5.76 (1.67)
3	2.88 (0.63)	4.25 (0.93)	48.1 (10.6)	4.61 (1.01)	3.89 (0.64)	5.14 (0.85)	76.4 (12.8)	6.22 (1.03)	3.67 (0.74)	4.60 (0.92)	70.7 (14.4)	5.88 (1.18)
4	2.84 (0.63)	4.20 (0.93)	46.5 (10.4)	4.55 (1.00)	3.96 (0.82)	5.25 (1.09)	76.5 (15.9)	6.34 (1.32)	3.62 (0.80)	4.53 (1.00)	68.2 (15.2)	5.79 (1.28)
5	2.73 (0.68)	4.04 (1.00)	43.8 (10.8)	4.37 (1.09)	4.30 (0.59)	5.71 (0.78)	81.5 (11.0)	6.88 (0.94)	3.41 (0.79)	4.28 (0.99)	63.0 (14.5)	5.46 (1.26)
6	3.74 (0.48)	5.53 (0.71)	58.7 (7.49)	5.99 (0.77)	4.57 (0.76)	6.08 (1.01)	85.0 (14.0)	7.31 (1.22)	4.54 (0.60)	5.70 (0.76)	82.0 (10.8)	7.26 (0.96)
7	3.84 (0.90)	5.67 (1.33)	59.1 (14.0)	6.15 (1.44)	4.63 (1.17)	6.16 (1.55)	84.4 (21.5)	7.41 (1.87)	4.15 (0.88)	5.22 (1.11)	73.6 (15.9)	6.64 (1.41)
8	3.16 (0.81)	4.67 (1.20)	47.7 (12.3)	5.06 (1.30)	3.96 (0.86)	5.27 (1.14)	70.7 (15.5)	6.34 (1.38)	3.95 (1.12)	4.98 (1.41)	68.6 (19.5)	6.32 (1.79)
9	3.76 (0.39)	5.56 (0.57)	55.6 (5.56)	6.02 (0.62)	3.80 (0.61)	5.05 (0.81)	66.5 (10.6)	6.08 (0.97)	4.40 (0.67)	5.55 (0.84)	74.7 (11.7)	7.04 (1.07)
10	3.60 (0.52)	5.32 (0.77)	52.1 (7.64)	5.76 (0.83)	3.69 (0.69)	4.91 (0.92)	63.2 (11.9)	5.91 (1.10)	3.14 (0.76)	3.96 (0.96)	52.1 (12.7)	5.02 (1.22)
11	3.71 (0.58)	5.48 (0.85)	52.8 (8.39)	5.93 (0.92)	3.99 (0.65)	5.31 (0.86)	67.0 (10.9)	6.39 (1.04)	3.56 (0.81)	4.49 (1.02)	57.8 (13.2)	5.70 (1.29)
12	2.86 (0.83)	4.22 (1.23)	39.8 (11.7)	4.57 (1.33)	3.63 (0.83)	4.83 (1.10)	59.6 (13.7)	5.81 (1.32)	3.15 (0.81)	3.98 (1.02)	50.1 (13.0)	5.05 (1.29)
13	4.22 (0.79)	6.24 (1.16)	57.6 (10.6)	6.75 (1.26)	4.46 (0.75)	5.93 (0.99)	71.6 (11.8)	7.13 (1.19)	4.72 (0.81)	5.95 (1.02)	73.1 (12.2)	7.55 (1.29)
14	3.45 (0.87)	5.10 (1.28)	46.3 (11.7)	5.52 (1.38)	4.10 (1.34)	5.46 (1.78)	64.7 (21.3)	6.57 (2.14)	4.29 (1.23)	5.41 (1.55)	65.0 (18.9)	6.86 (1.97)
15	3.05 (0.82)	4.51 (1.21)	40.1 (10.9)	4.88 (1.31)	3.71 (0.96)	4.93 (1.27)	57.2 (14.8)	5.93 (1.53)	3.66 (1.27)	4.61 (1.60)	54.2 (18.9)	5.85 (2.03)
16	3.65 (1.09)	5.39 (1.60)	47.0 (13.9)	5.84 (1.74)	3.68 (0.88)	4.90 (1.17)	55.5 (13.3)	5.89 (1.41)	4.15 (1.29)	5.23 (1.62)	60.0 (18.8)	6.64 (2.06)
17	3.85 (0.66)	5.69 (0.97)	48.7 (8.41)	6.17 (1.05)	3.97 (0.83)	5.28 (1.11)	58.7 (12.4)	6.35 (1.33)	3.78 (0.88)	4.77 (1.11)	53.5 (12.6)	6.04 (1.41)
18	3.65 (0.57)	5.40 (0.85)	45.3 (7.16)	5.84 (0.92)	3.71 (0.68)	4.93 (0.91)	53.6 (9.87)	5.93 (1.09)	3.92 (0.62)	4.95 (0.78)	54.2 (8.63)	6.27 (0.99)
19	3.34 (0.75)	4.94 (1.11)	40.7 (9.24)	5.35 (1.20)	3.81 (0.69)	5.08 (0.92)	54.0 (9.95)	6.10 (1.11)	3.95 (0.84)	4.98 (1.06)	53.4 (11.5)	6.31 (1.34)
20	3.80 (0.77)	5.62 (1.14)	45.4 (9.25)	6.08 (1.23)	4.43 (0.68)	5.90 (0.90)	61.5 (9.39)	7.09 (1.08)	4.84 (0.84)	6.12 (1.06)	64.1 (11.2)	7.74 (1.35)
21	3.95 (1.10)	5.84 (1.63)	46.4 (13.0)	6.32 (1.76)	4.43 (1.40)	5.90 (1.87)	60.3 (19.3)	7.09 (2.25)	4.57 (1.51)	5.78 (1.91)	59.2 (19.7)	7.32 (2.42)
22	4.12 (1.11)	6.09 (1.65)	47.5 (12.9)	6.59 (1.78)	4.43 (0.80)	5.91 (1.07)	59.1 (10.7)	7.09 (1.28)	4.96 (1.60)	6.28 (2.03)	62.9 (20.5)	7.94 (2.56)
23	4.31 (1.01)	6.36 (1.49)	48.8 (11.5)	6.89 (1.61)	3.73 (0.54)	4.97 (0.72)	48.7 (7.02)	5.96 (0.86)	4.71 (1.25)	5.96 (1.59)	58.4 (15.8)	7.53 (2.01)
24	3.92 (0.62)	5.79 (0.92)	43.7 (6.88)	6.28 (1.00)	3.73 (0.55)	4.98 (0.73)	47.8 (7.03)	5.97 (0.88)	4.27 (0.67)	5.41 (0.85)	51.8 (8.11)	6.83 (1.07)
25	2.86 (1.73)	4.22 (2.56)	31.3 (19.0)	4.57 (2.77)	2.82 (1.47)	3.77 (1.96)	35.4 (18.5)	4.51 (2.35)	2.96 (1.79)	3.74 (2.26)	35.2 (21.3)	4.73 (2.86)
26	3.20 (1.28)	4.72 (1.88)	34.5 (13.8)	5.12 (2.04)	3.71 (0.53)	4.96 (0.71)	45.7 (6.62)	5.94 (0.85)	3.39 (1.18)	4.30 (1.50)	39.5 (13.8)	5.43 (1.90)
27	4.04 (0.99)	5.97 (1.46)	42.8 (10.4)	6.46 (1.58)	4.45 (0.50)	5.95 (0.67)	53.8 (6.01)	7.12 (0.81)	3.74 (1.29)	4.74 (1.63)	42.6 (14.8)	5.98 (2.06)
28	4.36 (1.13)	6.45 (1.67)	45.5 (11.8)	6.98 (1.81)	4.12 (0.85)	5.50 (1.14)	48.8 (10.3)	6.59 (1.36)	3.42 (0.99)	4.33 (1.25)	38.1 (10.9)	5.47 (1.58)
29	4.65 (1.10)	6.87 (1.63)	47.7 (11.4)	7.44 (1.77)	4.14 (0.50)	5.54 (0.67)	48.2 (5.77)	6.63 (0.80)	3.41 (0.75)	4.32 (0.95)	37.3 (8.25)	5.46 (1.20)
30	4.38 (1.27)	6.48 (1.88)	44.3 (12.9)	7.01 (2.03)	3.91 (0.74)	5.23 (0.99)	44.7 (8.51)	6.26 (1.18)	3.48 (0.74)	4.41 (0.94)	37.3 (7.96)	5.57 (1.19)
31	4.13 (1.07)	6.11 (1.58)	41.2 (10.7)	6.61 (1.71)	3.60 (0.98)	4.82 (1.31)	40.4 (11.1)	5.75 (1.56)	3.77 (0.68)	4.78 (0.87)	39.6 (7.17)	6.04 (1.09)
Avg	3.63	5.37	46.7	5.81	3.95	5.26	60.8	6.32	3.87	4.89	57.0	6.20
n	30	30	30	30	31	31	31	31	31	31	31	31
SD	0.53	0.79	6.27	0.85	0.39	0.52	12.7	0.62	0.55	0.70	12.5	0.89
Min	2.73	4.04	31.3	4.37	2.82	3.77	35.4	4.51	2.88	3.60	35.2	4.61
Max	4.65	6.87	59.1	7.44	4.63	6.16	85.0	7.41	4.96	6.28	82.0	7.94

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for August, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	3.61 (1.10)	5.34 (1.63)	35.5 (10.9)	5.78 (1.76)	4.45 (1.29)	5.96 (1.73)	49.0 (14.2)	7.12 (2.07)	4.02 (0.93)	5.10 (1.18)	41.4 (9.66)	6.43 (1.49)
2	4.48 (0.98)	6.63 (1.45)	43.3 (9.47)	7.17 (1.57)	5.66 (0.62)	7.59 (0.83)	61.3 (6.67)	9.05 (0.98)	4.78 (0.77)	6.07 (0.98)	48.3 (7.78)	7.65 (1.23)
3	4.04 (0.83)	5.98 (1.22)	38.5 (7.92)	6.46 (1.32)	5.63 (0.99)	7.56 (1.33)	60.0 (10.6)	9.01 (1.59)	4.69 (1.62)	5.97 (2.05)	46.6 (16.0)	7.51 (2.58)
4	3.31 (0.84)	4.89 (1.23)	31.1 (7.91)	5.29 (1.34)	4.77 (0.81)	6.40 (1.08)	49.9 (8.60)	7.63 (1.29)	4.86 (1.06)	6.17 (1.35)	47.4 (10.5)	7.77 (1.70)
5	3.00 (0.83)	4.43 (1.23)	27.9 (7.79)	4.80 (1.33)	4.56 (0.94)	6.13 (1.27)	47.0 (9.76)	7.30 (1.51)	5.37 (1.42)	6.83 (1.81)	51.4 (13.6)	8.59 (2.28)
6	3.24 (0.95)	4.79 (1.40)	29.7 (8.65)	5.18 (1.51)	3.81 (0.93)	5.13 (1.26)	38.6 (9.49)	6.10 (1.49)	4.62 (1.09)	5.89 (1.38)	43.6 (10.4)	7.40 (1.74)
7	3.53 (0.92)	5.23 (1.36)	32.0 (8.35)	5.66 (1.47)	3.37 (1.18)	4.53 (1.59)	33.6 (11.9)	5.39 (1.89)	3.67 (0.83)	4.67 (1.06)	34.0 (7.81)	5.87 (1.33)
8												
9	3.57 (1.20)	5.28 (1.77)	31.5 (10.6)	5.71 (1.92)	4.09 (0.72)	5.52 (0.96)	39.6 (7.00)	6.55 (1.14)	4.13 (0.99)	5.26 (1.26)	37.0 (8.89)	6.61 (1.58)
10	3.66 (1.10)	5.42 (1.63)	32.0 (9.67)	5.85 (1.76)	4.43 (1.15)	5.98 (1.55)	42.2 (11.00)	7.09 (1.84)	3.78 (1.19)	4.81 (1.52)	33.3 (10.5)	6.04 (1.91)
11	3.89 (1.33)	5.76 (1.98)	33.6 (11.6)	6.22 (2.14)	4.20 (0.76)	5.67 (1.02)	39.4 (7.16)	6.71 (1.21)	5.41 (1.12)	6.89 (1.43)	46.9 (9.72)	8.66 (1.79)
12	3.69 (1.75)	5.46 (2.60)	31.5 (14.9)	5.90 (2.81)	3.68 (0.71)	4.97 (0.96)	34.1 (6.66)	5.89 (1.14)	6.93 (1.61)	8.83 (2.05)	59.1 (13.7)	11.1 (2.57)
13					3.90 (0.55)	5.27 (0.74)	35.5 (4.89)	6.24 (0.87)	7.24 (1.21)	9.23 (1.54)	60.8 (10.3)	11.6 (1.93)
14	4.50 (0.97)	6.68 (1.44)	37.7 (8.16)	7.21 (1.55)	4.58 (1.29)	6.20 (1.75)	41.3 (11.7)	7.34 (2.07)	5.79 (1.54)	7.39 (1.96)	48.0 (12.8)	9.27 (2.46)
15	4.27 (0.99)	6.33 (1.47)	35.4 (8.23)	6.83 (1.58)	4.20 (0.73)	5.68 (0.98)	37.3 (6.44)	6.72 (1.16)	6.59 (1.95)	8.41 (2.49)	53.9 (16.1)	10.5 (3.12)
16	4.14 (0.98)	6.15 (1.46)	34.1 (8.11)	6.63 (1.57)	4.41 (0.87)	5.97 (1.18)	38.7 (7.72)	7.06 (1.40)	6.29 (2.13)	8.03 (2.73)	50.8 (17.3)	10.1 (3.42)
17	4.12 (1.09)	6.11 (1.62)	33.6 (8.89)	6.59 (1.74)	5.36 (1.09)	7.26 (1.48)	46.4 (9.48)	8.58 (1.75)	5.89 (2.17)	7.53 (2.77)	47.0 (17.3)	9.43 (3.47)
18	3.68 (1.26)	5.47 (1.87)	29.8 (10.2)	5.89 (2.02)	4.82 (1.03)	6.54 (1.40)	41.2 (8.93)	7.71 (1.65)	6.27 (1.30)	8.03 (1.67)	49.4 (10.3)	10.0 (2.09)
19	3.55 (1.41)	5.28 (2.10)	28.5 (11.3)	5.68 (2.26)	4.36 (0.77)	5.92 (1.05)	36.8 (6.58)	6.98 (1.24)	6.12 (1.41)	7.83 (1.81)	47.5 (11.1)	9.79 (2.26)
20	3.16 (1.26)	4.70 (1.87)	25.2 (10.0)	5.06 (2.01)	4.48 (0.70)	6.08 (0.95)	37.4 (5.86)	7.17 (1.12)	5.33 (1.77)	6.83 (2.27)	40.9 (13.7)	8.53 (2.83)
21	3.37 (0.76)	5.02 (1.13)	26.6 (5.99)	5.39 (1.21)					4.34 (1.17)	5.56 (1.50)	32.9 (8.93)	6.94 (1.88)
22	4.00 (0.95)	5.96 (1.42)	31.4 (7.45)	6.40 (1.52)					4.92 (1.28)	6.31 (1.64)	36.9 (9.57)	7.88 (2.04)
23	4.35 (0.85)	6.49 (1.27)	33.9 (6.64)	6.97 (1.36)					4.93 (1.40)	6.33 (1.80)	36.6 (10.4)	7.89 (2.24)
24	4.70 (1.11)	7.01 (1.65)	36.3 (8.58)	7.52 (1.77)	6.10 (1.31)	8.30 (1.78)	48.8 (10.5)	9.77 (2.10)	4.94 (1.72)	6.34 (2.20)	36.2 (12.6)	7.90 (2.75)
25	4.84 (1.43)	7.22 (2.13)	37.2 (11.0)	7.74 (2.28)	5.58 (1.02)	7.59 (1.39)	44.2 (8.12)	8.93 (1.63)	5.04 (1.29)	6.47 (1.66)	36.6 (9.44)	8.07 (2.07)
26	4.54 (1.18)	6.78 (1.76)	34.7 (9.00)	7.27 (1.88)	4.88 (1.05)	6.64 (1.43)	38.2 (8.25)	7.81 (1.68)	4.41 (1.15)	5.66 (1.48)	31.7 (8.30)	7.06 (1.85)
27	3.94 (1.68)	5.89 (2.50)	29.9 (12.8)	6.31 (2.68)					4.46 (1.05)	5.72 (1.34)	31.7 (7.45)	7.13 (1.67)
28	3.77 (1.20)	5.64 (1.79)	28.4 (9.02)	6.04 (1.91)	5.61 (1.29)	7.64 (1.76)	43.1 (9.92)	8.98 (2.06)	5.20 (1.24)	6.68 (1.59)	36.7 (8.73)	8.32 (1.98)
29	3.67 (1.05)	5.49 (1.56)	27.5 (7.87)	5.88 (1.68)	5.22 (0.85)	7.10 (1.16)	39.7 (6.44)	8.35 (1.36)	4.45 (0.96)	5.71 (1.24)	31.1 (6.77)	7.11 (1.54)
30	3.42 (1.12)	5.12 (1.67)	25.5 (8.33)	5.48 (1.78)	5.10 (0.98)	6.95 (1.33)	38.5 (7.40)	8.17 (1.56)	4.14 (0.88)	5.32 (1.12)	28.7 (6.06)	6.62 (1.40)
31												
Avg	3.86	5.73	32.2	6.17	4.69	6.34	42.5	7.50	5.12	6.55	42.3	8.20
n	28	28	28	28	25	25	25	25	29	29	29	29
SD	0.48	0.72	4.18	0.77	0.69	0.94	6.96	1.10	0.92	1.18	8.55	1.48
Min	3.00	4.43	25.2	4.80	3.37	4.53	33.6	5.39	3.67	4.67	28.7	5.87
Max	4.84	7.22	43.3	7.74	6.10	8.30	61.3	9.77	7.24	9.23	60.8	11.6

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for September, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	4.85 (0.64)	7.28 (0.97)	35.9 (4.76)	7.76 (1.03)	4.56 (0.98)	6.21 (1.34)	33.8 (7.32)	7.29 (1.57)	4.29 (0.86)	5.51 (1.10)	29.2 (5.86)	6.86 (1.37)
2	5.25 (0.84)	7.90 (1.26)	38.7 (6.21)	8.40 (1.35)	4.01 (1.13)	5.47 (1.55)	29.6 (8.37)	6.42 (1.82)	4.56 (1.04)	5.86 (1.34)	30.8 (7.05)	7.29 (1.67)
3	4.42 (1.25)	6.66 (1.88)	32.5 (9.20)	7.08 (2.00)	3.45 (0.76)	4.70 (1.04)	25.2 (5.59)	5.52 (1.22)	4.26 (0.89)	5.48 (1.14)	28.6 (5.96)	6.81 (1.42)
4	3.71 (0.83)	5.60 (1.25)	27.2 (6.08)	5.93 (1.33)	4.14 (1.24)	5.65 (1.69)	30.0 (9.00)	6.63 (1.99)	4.18 (0.85)	5.37 (1.10)	27.9 (5.69)	6.68 (1.37)
5	3.68 (1.17)	5.56 (1.77)	26.9 (8.58)	5.89 (1.88)	4.32 (1.00)	5.89 (1.36)	31.1 (7.21)	6.90 (1.60)	4.80 (1.61)	6.18 (2.07)	31.8 (10.7)	7.69 (2.57)
6	3.78 (1.01)	5.71 (1.53)	27.5 (7.34)	6.04 (1.61)	4.71 (1.23)	6.43 (1.68)	33.7 (8.84)	7.53 (1.97)	4.46 (0.99)	5.74 (1.28)	29.3 (6.54)	7.14 (1.59)
7	4.39 (0.95)	6.64 (1.44)	31.7 (6.85)	7.02 (1.52)	3.92 (1.12)	5.36 (1.53)	27.9 (7.98)	6.28 (1.80)	4.63 (0.96)	5.95 (1.23)	30.2 (6.24)	7.40 (1.53)
8	4.77 (0.81)	7.21 (1.22)	34.3 (5.82)	7.63 (1.29)	3.83 (0.76)	5.23 (1.03)	27.1 (5.32)	6.13 (1.21)	4.46 (0.83)	5.73 (1.07)	28.9 (5.42)	7.13 (1.34)
9	4.83 (0.84)	7.30 (1.27)	34.6 (6.03)	7.72 (1.34)	4.15 (1.02)	5.67 (1.39)	29.2 (7.16)	6.65 (1.62)	3.74 (1.06)	4.82 (1.36)	24.2 (6.84)	5.99 (1.69)
10	4.69 (1.12)	7.10 (1.70)	33.5 (8.05)	7.51 (1.80)	3.38 (1.03)	4.61 (1.41)	23.6 (7.25)	5.40 (1.66)	3.39 (0.86)	4.36 (1.10)	21.7 (5.50)	5.42 (1.37)
11	3.65 (0.74)	5.92 (1.21)	27.8 (5.66)	5.84 (1.18)	3.46 (0.95)	4.73 (1.29)	24.1 (6.57)	5.54 (1.51)	3.80 (0.98)	4.89 (1.26)	24.3 (6.22)	6.08 (1.56)
12	3.16 (0.66)	5.56 (1.16)	26.1 (5.43)	5.06 (1.06)	3.83 (1.41)	5.23 (1.93)	26.5 (9.77)	6.13 (2.26)	4.23 (0.99)	5.44 (1.28)	26.8 (6.29)	6.76 (1.59)
13	3.77 (0.75)	6.64 (1.32)	31.0 (6.17)	6.03 (1.20)	3.49 (1.03)	4.77 (1.41)	24.0 (7.11)	5.59 (1.65)	4.86 (0.99)	6.26 (1.28)	30.7 (6.26)	7.77 (1.59)
14	3.82 (0.93)	6.73 (1.64)	31.3 (7.61)	6.12 (1.49)	3.60 (0.98)	4.92 (1.34)	24.7 (6.71)	5.76 (1.57)	5.27 (1.11)	6.78 (1.43)	33.1 (7.01)	8.43 (1.78)
15												
16	4.61 (0.77)	9.66 (1.61)	46.2 (7.72)	7.37 (1.23)	3.18 (0.74)	4.34 (1.02)	21.6 (5.05)	5.08 (1.19)	5.72 (1.12)	7.37 (1.45)	35.6 (6.98)	9.15 (1.80)
17	4.32 (0.99)	9.08 (2.08)	43.3 (9.94)	6.92 (1.59)	3.63 (0.80)	4.97 (1.09)	24.6 (5.40)	5.82 (1.28)	5.25 (1.07)	6.77 (1.38)	32.6 (6.65)	8.40 (1.71)
18	3.73 (0.61)	7.86 (1.28)	37.3 (6.06)	5.96 (0.97)	3.74 (0.81)	5.12 (1.10)	25.2 (5.43)	5.99 (1.29)	4.64 (0.97)	5.98 (1.25)	28.6 (5.99)	7.43 (1.55)
19	3.26 (0.81)	6.91 (1.72)	32.7 (8.15)	5.22 (1.30)	3.80 (1.00)	5.21 (1.37)	25.5 (6.74)	6.09 (1.60)	4.34 (0.98)	5.59 (1.26)	26.6 (5.99)	6.94 (1.56)
20	3.58 (0.70)	7.59 (1.48)	35.8 (6.99)	5.73 (1.12)	4.70 (1.22)	6.44 (1.67)	31.4 (8.18)	7.52 (1.96)	4.91 (0.99)	6.33 (1.27)	30.0 (6.02)	7.86 (1.58)
21	3.42 (0.95)	7.26 (2.01)	34.1 (9.48)	5.47 (1.52)	4.48 (1.34)	6.14 (1.84)	29.9 (8.95)	7.17 (2.14)	5.05 (1.16)	7.09 (1.61)	33.7 (7.67)	8.08 (1.85)
22	3.80 (0.63)	8.08 (1.33)	37.9 (6.24)	6.09 (1.00)	3.94 (0.70)	5.41 (0.97)	26.2 (4.69)	6.31 (1.13)	5.80 (1.28)	9.03 (1.99)	43.0 (9.50)	9.28 (2.05)
23	3.36 (0.79)	7.13 (1.67)	33.3 (7.82)	5.37 (1.26)	3.94 (0.62)	5.40 (0.85)	26.1 (4.10)	6.30 (0.99)	5.98 (1.34)	9.31 (2.09)	44.2 (9.96)	9.56 (2.15)
24	3.23 (1.01)	6.88 (2.16)	32.0 (10.0)	5.17 (1.62)	3.71 (0.80)	5.09 (1.10)	24.5 (5.27)	5.93 (1.28)	4.96 (1.73)	7.73 (2.69)	36.6 (12.8)	7.93 (2.76)
25	3.72 (0.69)	7.91 (1.48)	36.7 (6.84)	5.94 (1.11)	3.83 (0.70)	5.27 (0.96)	25.3 (4.59)	6.13 (1.11)	4.89 (1.00)	7.63 (1.56)	35.9 (7.34)	7.82 (1.60)
26	3.94 (0.69)	8.41 (1.46)	38.9 (6.76)	6.31 (1.10)	4.31 (1.06)	5.92 (1.45)	28.3 (6.95)	6.89 (1.69)	5.27 (0.98)	8.23 (1.53)	38.6 (7.18)	8.44 (1.57)
27	3.64 (0.62)	7.76 (1.31)	35.8 (6.05)	5.82 (0.98)	4.38 (0.85)	6.02 (1.16)	28.6 (5.53)	7.00 (1.35)	5.29 (0.95)	8.26 (1.48)	38.6 (6.94)	8.47 (1.52)
28	3.35 (0.72)	7.17 (1.54)	32.9 (7.09)	5.36 (1.15)	5.43 (1.16)	7.46 (1.60)	35.4 (7.60)	8.68 (1.86)	5.06 (1.04)	7.90 (1.62)	36.8 (7.57)	8.09 (1.66)
29	3.92 (0.89)	8.43 (1.91)	38.5 (8.71)	6.27 (1.42)	4.90 (1.37)	6.74 (1.89)	31.9 (8.93)	7.83 (2.20)	5.60 (1.13)	8.75 (1.77)	40.6 (8.23)	8.97 (1.82)
30	3.95 (1.14)	8.52 (2.45)	38.7 (11.2)	6.32 (1.82)	5.20 (1.23)	7.15 (1.69)	33.7 (7.98)	8.32 (1.97)	5.70 (1.19)	8.90 (1.85)	41.2 (8.58)	9.12 (1.90)
Avg	3.95	7.26	34.2	6.32	4.07	5.57	27.9	6.51	4.81	6.66	32.4	7.69
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	0.55	1.02	4.70	0.88	0.54	0.75	3.57	0.87	0.64	1.36	5.71	1.02
Min	3.16	5.56	26.1	5.06	3.18	4.34	21.6	5.08	3.39	4.36	21.7	5.42
Max	5.25	9.66	46.2	8.40	5.43	7.46	35.4	8.68	5.98	9.31	44.2	9.56

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for October, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1	4.09 (1.54)	8.85 (3.34)	40.1 (15.1)	6.55 (2.47)	5.63 (1.42)	7.75 (1.95)	36.4 (9.16)	9.01 (2.27)	5.24 (1.87)	8.19 (2.92)	37.8 (13.5)	8.39 (2.99)
2	4.09 (1.56)	8.86 (3.37)	40.0 (15.2)	6.54 (2.49)	6.05 (1.36)	8.34 (1.88)	39.0 (8.79)	9.69 (2.18)	4.21 (0.97)	6.58 (1.51)	30.2 (6.96)	6.74 (1.55)
3	3.42 (0.75)	7.43 (1.63)	33.4 (7.34)	5.47 (1.20)	6.12 (1.25)	8.42 (1.72)	39.3 (8.03)	9.79 (2.00)	4.14 (0.77)	6.46 (1.20)	29.5 (5.48)	6.62 (1.23)
4	4.21 (0.82)	9.18 (1.79)	41.0 (8.02)	6.74 (1.32)	5.97 (1.28)	8.23 (1.77)	38.2 (8.21)	9.56 (2.05)	4.71 (0.80)	7.35 (1.24)	33.4 (5.65)	7.53 (1.27)
5	4.31 (0.61)	9.40 (1.32)	41.7 (5.88)	6.90 (0.97)	6.50 (1.24)	8.95 (1.70)	41.4 (7.87)	10.4 (1.98)	5.56 (0.89)	10.3 (2.13)	46.5 (9.62)	8.90 (1.42)
6	4.36 (0.81)	51 (278)	1030 (7320)	6.97 (1.29)	5.02 (1.99)	6.92 (2.75)	31.9 (12.7)	8.04 (3.19)	5.56 (0.86)	12.4 (1.91)	56.7 (8.69)	8.90 (1.37)
7					3.83 (0.98)	5.61 (1.38)	25.7 (6.33)	6.13 (1.57)	6.09 (1.05)	13.6 (2.34)	63.1 (10.9)	9.74 (1.68)
8					3.86 (0.96)	6.14 (1.52)	27.9 (6.95)	6.18 (1.54)	5.30 (1.43)	11.8 (3.19)	54.7 (14.8)	8.47 (2.28)
9					4.48 (1.10)	7.17 (1.77)	32.5 (8.01)	7.17 (1.77)	3.84 (1.78)	8.61 (3.99)	39.6 (18.4)	6.15 (2.85)
10					5.00 (1.03)	8.03 (1.65)	36.2 (7.41)	8.00 (1.64)	3.75 (0.60)	8.41 (1.36)	38.5 (6.20)	6.00 (0.97)
11												
12	1.30 (0.11)			2.08 (0.18)	5.50 (0.97)	10.4 (1.83)	47.6 (8.39)	8.79 (1.55)	3.88 (0.73)	8.79 (1.64)	39.8 (7.44)	6.21 (1.16)
13	0.97 (0.22)			1.55 (0.36)	5.15 (0.99)	18.8 (10.10)	94.4 (55.10)	8.24 (1.58)	3.87 (0.89)	8.82 (2.02)	39.7 (9.14)	6.20 (1.43)
14												
15	0.98 (0.14)			1.57 (0.22)								
16	0.92 (0.12)			1.47 (0.19)								
17	0.83 (0.23)			1.33 (0.36)								
18	0.87 (0.08)			1.39 (0.13)								
19	0.81 (0.30)			1.30 (0.48)								
20												
21												
22	1.33 (1.02)	1.92 (1.48)	36.6 (28.3)	2.12 (1.64)	1.47 (1.12)	2.10 (1.60)	48.2 (36.8)	2.35 (1.79)				
23	1.60 (0.65)	2.32 (0.94)	43.1 (17.5)	2.56 (1.03)	1.75 (1.08)	2.50 (1.55)	55.7 (34.7)	2.80 (1.73)	0.88 (0.26)			1.41 (0.42)
24	1.77 (0.22)	2.57 (0.32)	46.8 (5.76)	2.84 (0.35)	2.19 (0.61)	3.13 (0.87)	67.7 (18.7)	3.50 (0.97)	1.05 (0.28)			1.68 (0.44)
25	1.81 (1.35)	2.63 (1.96)	46.9 (34.9)	2.90 (2.17)	1.90 (1.29)	2.72 (1.85)	57.5 (39.0)	3.04 (2.07)	1.57 (0.41)			2.51 (0.65)
26	1.57 (2.17)	2.27 (3.15)	39.7 (55.1)	2.51 (3.48)	1.77 (1.85)	2.53 (2.65)	52.1 (54.6)	2.83 (2.97)	1.65 (0.81)			2.63 (1.30)
27												
28	2.74 (0.91)	3.96 (1.31)	67.1 (22.1)	4.38 (1.45)	2.26 (0.87)	3.23 (1.24)	63.8 (24.5)	3.61 (1.39)	2.51 (0.58)	3.37 (0.78)	65.2 (15.1)	4.01 (0.93)
29												
30												
31												
Avg	2.21	9.23	125	3.54	4.14	6.72	46.4	6.62	3.75	8.82	44.2	6.01
n	19	12	12	19	18	18	18	18	17	13	13	17
SD	1.36	13.0	272	2.17	1.74	3.91	16.5	2.78	1.61	2.62	11.5	2.58
Min	0.81	1.92	33.4	1.30	1.47	2.10	25.7	2.35	0.88	3.37	29.5	1.41
Max	4.36	51.3	1030	6.97	6.50	18.8	94.4	10.4	6.09	13.6	65.2	9.74

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for November, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2												
3												
4	3.49 (4.47)	5.06 (6.48)	76.8 (98.4)	5.59 (7.15)	2.26 (1.85)	3.24 (2.65)	55.9 (45.8)	3.62 (2.96)				
5	3.37 (4.52)	4.88 (6.55)	72.9 (98.0)	5.39 (7.23)	2.08 (1.81)	2.98 (2.59)	50.5 (44.0)	3.33 (2.90)				
6					1.96 (1.87)	2.80 (2.67)	46.6 (44.5)	3.13 (2.99)				
7					2.08 (1.95)	2.98 (2.79)	48.6 (45.6)	3.33 (3.12)				
8					2.40 (1.93)	3.44 (2.77)	55.1 (44.4)	3.85 (3.09)				
9					2.94 (1.84)	4.21 (2.64)	66.1 (41.5)	4.71 (2.95)				
10	3.95 (1.79)	5.73 (2.60)	78.9 (35.9)	6.32 (2.87)	3.60 (0.90)	5.16 (1.29)	79.4 (19.7)	5.77 (1.44)	3.82 (0.99)	5.14 (1.33)	78.4 (20.3)	6.11 (1.58)
11	2.03 (2.62)	2.95 (3.80)	40.0 (51.4)	3.25 (4.19)	3.54 (0.73)	5.07 (1.05)	76.6 (16.0)	5.67 (1.18)	2.94 (2.31)	3.96 (3.11)	59.6 (46.7)	4.71 (3.69)
12	1.30 (2.41)	1.89 (3.50)	25.1 (46.5)	2.08 (3.86)	3.03 (1.72)	4.34 (2.47)	64.1 (36.3)	4.84 (2.76)				
13					3.23 (2.91)	4.63 (4.17)	66.9 (60.3)	5.16 (4.65)				
14					3.92 (2.67)	5.63 (3.83)	79.7 (54.3)	6.28 (4.28)				
15					4.08 (2.88)	5.86 (4.14)	81.1 (57.4)	6.53 (4.61)				
16					4.32 (3.06)	6.20 (4.40)	84.0 (59.7)	6.91 (4.90)				
17					2.92 (3.12)	4.19 (4.48)	55.7 (59.7)	4.66 (4.99)				
18	2.56 (1.32)	3.74 (1.93)	44.2 (22.9)	4.10 (2.12)	2.46 (1.10)	3.54 (1.58)	45.7 (20.3)	3.93 (1.75)	4.38 (2.24)	5.92 (3.02)	78.9 (40.3)	7.01 (3.58)
19	3.11 (0.35)	4.54 (0.51)	52.7 (5.7)	4.97 (0.56)	3.15 (0.54)	4.53 (0.77)	57.3 (9.8)	5.04 (0.86)	5.06 (1.18)	6.84 (1.59)	89.6 (20.8)	8.10 (1.88)
20	3.58 (0.95)	5.23 (1.39)	59.5 (15.7)	5.73 (1.53)	3.30 (0.83)	4.75 (1.20)	58.7 (14.8)	5.28 (1.33)	6.39 (2.19)	8.63 (2.95)	111 (37.9)	10.2 (3.50)
21					3.07 (2.11)	4.43 (3.04)	53.4 (36.8)	4.91 (3.37)				
22					2.97 (2.21)	4.29 (3.19)	50.5 (37.7)	4.75 (3.54)				
23	2.91 (1.79)	4.26 (2.61)	45.5 (27.9)	4.66 (2.86)	2.83 (1.38)	4.10 (1.99)	47.3 (23.2)	4.53 (2.20)	6.22 (4.70)	8.40 (6.36)	102 (76.9)	9.95 (7.53)
24					2.69 (1.40)	3.90 (2.04)	43.8 (22.8)	4.30 (2.24)				
25												
26												
27												
28												
29					3.38 (1.19)	4.96 (1.74)	49.3 (17.6)	5.41 (1.90)				
30					3.45 (0.91)	5.06 (1.34)	49.2 (13.1)	5.52 (1.46)				
Avg	2.92	4.25	55.1	4.68	3.03	4.36	59.4	4.85	4.80	6.48	86.5	7.69
n	9	9	9	9	23	23	23	23	6	6	6	6
SD	0.79	1.15	17.4	1.26	0.63	0.91	12.5	1.00	1.24	1.68	16.7	1.98
Min	1.30	1.89	25.1	2.08	1.96	2.80	43.8	3.13	2.94	3.96	59.6	4.71
Max	3.95	5.73	78.9	6.32	4.32	6.20	84.0	6.91	6.39	8.63	111	10.2

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for December, 2009.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2	3.63 (1.86)	5.32 (2.73)	46.8 (24.1)	5.81 (2.98)	3.97 (1.56)	5.84 (2.30)	54.1 (21.4)	6.36 (2.50)	5.11 (3.28)	6.93 (4.44)	69.1 (44.5)	8.18 (5.24)
3	4.19 (1.05)	6.14 (1.54)	53.0 (13.1)	6.71 (1.68)	3.62 (0.90)	5.32 (1.32)	48.2 (12.1)	5.79 (1.44)	4.79 (1.57)	6.49 (2.13)	63.5 (20.9)	7.66 (2.51)
4					3.40 (0.87)	5.00 (1.28)	44.1 (11.4)	5.43 (1.39)				
5					3.41 (1.07)	5.02 (1.57)	43.4 (13.5)	5.46 (1.71)				
6					3.57 (2.09)	5.26 (3.08)	44.4 (26.0)	5.71 (3.35)	3.61 (4.15)	4.90 (5.63)	44.7 (51.4)	5.78 (6.64)
7					3.67 (1.96)	5.40 (2.89)	44.5 (23.9)	5.87 (3.13)	4.01 (4.19)	5.44 (5.68)	48.6 (50.8)	6.41 (6.70)
8	3.78 (3.64)	5.54 (5.34)	43.1 (41.5)	6.05 (5.82)	4.64 (1.58)	6.85 (2.33)	55.2 (18.8)	7.43 (2.53)	2.33 (3.13)	3.16 (4.25)	27.7 (37.2)	3.73 (5.00)
9	4.56 (0.87)	6.69 (1.27)	50.9 (9.8)	7.29 (1.38)	3.72 (1.04)	5.48 (1.54)	43.3 (12.4)	5.95 (1.67)	3.10 (0.81)	4.21 (1.10)	36.0 (9.6)	4.96 (1.30)
10					2.62 (1.01)	3.87 (1.49)	29.9 (11.4)	4.20 (1.62)				
11					1.90 (2.06)	2.81 (3.04)	21.3 (23.0)	3.05 (3.30)				
12												
13	2.99 (1.55)	4.40 (2.28)	31.0 (16.0)	4.79 (2.48)	3.30 (1.46)	4.87 (2.16)	35.4 (15.7)	5.28 (2.34)	3.94 (2.37)	5.37 (3.23)	42.2 (25.4)	6.31 (3.79)
14					3.44 (1.19)	5.08 (1.76)	36.1 (12.6)	5.50 (1.90)	4.18 (3.03)	5.69 (4.13)	43.8 (31.8)	6.68 (4.85)
15	3.52 (0.99)	5.17 (1.46)	35.1 (9.9)	5.63 (1.59)	2.96 (0.88)	4.37 (1.30)	30.5 (9.2)	4.73 (1.41)	3.84 (1.97)	5.23 (2.69)	39.5 (20.4)	6.14 (3.16)
16									2.64 (2.86)	3.59 (3.89)	26.6 (28.8)	4.22 (4.57)
17	2.35 (3.19)	3.46 (4.69)	22.7 (30.7)	3.76 (5.10)	1.92 (1.91)	2.84 (2.82)	19.0 (18.9)	3.08 (3.05)	2.27 (3.30)	3.09 (4.50)	22.4 (32.6)	3.63 (5.28)
18	1.74 (3.05)	2.56 (4.48)	16.5 (28.9)	2.79 (4.87)	1.77 (2.11)	2.62 (3.13)	17.3 (20.6)	2.84 (3.38)	1.36 (2.49)	1.86 (3.39)	13.2 (24.2)	2.18 (3.98)
19												
20	2.15 (2.55)	3.17 (3.76)	19.7 (23.4)	3.44 (4.09)	2.78 (2.17)	4.12 (3.21)	26.1 (20.4)	4.45 (3.47)	2.69 (3.35)	3.66 (4.56)	25.1 (31.2)	4.30 (5.35)
21	2.00 (2.37)	2.95 (3.50)	18.1 (21.5)	3.20 (3.80)	2.86 (2.23)	4.23 (3.30)	26.4 (20.6)	4.57 (3.57)	2.96 (3.75)	4.04 (5.11)	27.2 (34.3)	4.74 (6.00)
22	1.83 (2.31)	2.70 (3.41)	16.3 (20.6)	2.93 (3.70)	3.14 (2.58)	4.65 (3.82)	28.5 (23.4)	5.02 (4.13)	3.12 (3.83)	4.26 (5.22)	28.1 (34.5)	5.00 (6.12)
23	2.11 (2.33)	3.11 (3.43)	18.5 (20.4)	3.37 (3.72)	2.88 (2.45)	4.27 (3.62)	25.8 (21.9)	4.62 (3.91)	3.21 (3.64)	4.38 (4.97)	28.4 (32.3)	5.14 (5.83)
24												
25	3.28 (2.19)	4.84 (3.23)	27.9 (18.6)	5.25 (3.50)	2.41 (1.31)	3.57 (1.94)	20.8 (11.4)	3.85 (2.10)	3.94 (2.56)	5.37 (3.49)	33.7 (21.9)	6.30 (4.09)
26												
27									5.08 (3.60)	6.94 (4.92)	42.2 (29.9)	8.13 (5.77)
28	3.38 (3.20)	4.99 (4.72)	27.7 (26.1)	5.41 (5.11)	3.02 (2.03)	4.47 (3.01)	25.0 (16.8)	4.83 (3.25)				
29												
30												
31												
Avg	2.97	4.36	30.5	4.75	3.10	4.57	34.3	4.95	3.45	4.70	36.8	5.53
n	14	14	14	14	21	21	21	21	18	18	18	18
SD	0.90	1.31	12.7	1.43	0.70	1.02	11.4	1.11	0.99	1.34	13.8	1.58
Min	1.74	2.56	16.3	2.79	1.77	2.62	17.3	2.84	1.36	1.86	13.2	2.18
Max	4.56	6.69	53.0	7.29	4.64	6.85	55.2	7.43	5.11	6.94	69.1	8.18

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Table F10. Daily mean (SD) of NH3 emissions at Site NC3B for January, 2010.

Day	Barn 1				Barn 2				Barn 3			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1} m^{2}$
1												
2												
3												
4												
5												
6												
7												
8												
9	4.07 (5.28)	6.08 (7.89)	29.7 (38.5)	6.51 (8.45)	3.52 (2.02)	5.25 (3.02)	25.6 (14.7)	5.63 (3.23)	2.82 (3.43)	3.87 (4.70)	19.9 (24.2)	4.52 (5.48)
10	4.27 (5.67)	6.39 (8.48)	30.9 (41.0)	6.84 (9.07)	3.47 (2.12)	5.18 (3.17)	25.0 (15.3)	5.55 (3.40)	2.75 (3.46)	3.77 (4.74)	19.2 (24.2)	4.40 (5.53)
11	5.06 (5.48)	7.58 (8.21)	36.4 (39.4)	8.10 (8.77)	3.51 (2.40)	5.24 (3.58)	25.1 (17.1)	5.61 (3.83)	2.97 (3.60)	4.08 (4.94)	20.6 (24.9)	4.76 (5.76)
12	4.99 (5.04)	7.48 (7.54)	35.7 (36.0)	7.99 (8.06)	4.13 (2.50)	6.18 (3.74)	29.4 (17.8)	6.61 (4.00)	2.55 (2.89)	3.49 (3.96)	17.5 (19.9)	4.07 (4.62)
13	3.92 (5.68)	5.87 (8.51)	27.8 (40.4)	6.27 (9.09)	4.06 (2.24)	6.07 (3.36)	28.7 (15.8)	6.50 (3.59)	2.73 (2.99)	3.74 (4.10)	18.6 (20.4)	4.36 (4.79)
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	4.46	6.68	32.1	7.14	3.74	5.58	26.7	5.98	2.76	3.79	19.2	4.42
n	5	5	5	5	5	5	5	5	5	5	5	5
SD	0.47	0.71	3.36	0.76	0.30	0.45	1.87	0.47	0.14	0.19	1.07	0.22
Min	3.92	5.87	27.8	6.27	3.47	5.18	25.0	5.55	2.55	3.49	17.5	4.07
Max	5.06	7.58	36.4	8.10	4.13	6.18	29.4	6.61	2.97	4.08	20.6	4.76

Table F9. Completeness of airflow and emissions data.

Table F11. Airflow and emission data completeness (%) at Site NC3B for December, 2007.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	0	0	0	0	0	0	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	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	91.9	91.8	88.5	80	74.9	62.7	0	0	0	0	0	0	0	0	0	0	0	0
5	87.7	89.2	82.1	81.3	81.9	62.8	0	0	0	0	0	0	0	0	0	0	0	0
6	89.1	88.8	84	85.8	80.1	76.9	0	0	0	0	0	0	0	0	0	0	0	0
7	82.7	83.2	75.1	75.2	71.6	63.8	0	0	0	0	0	0	0	0	0	0	0	0
8	87.6	88.4	79	82.8	78.8	69.7	0	0	0	0	0	0	0	0	0	0	0	0
9	92.6	93.1	83.5	92.4	93	69	0	0	0	0	0	0	0	0	0	0	0	0
10	95.6	95.8	89	95.6	95.8	77.8	0	0	0	80.4	80.6	74.2	0	0	0	0	0	0
11	97	98.5	87.9	96.9	98.5	79.5	0	0	0	97	98.5	87.9	0	0	0	0	0	0
12	13.1	13	10.6	12.4	11	7.5	0	0	0	13.1	13	10.6	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	58.3	58.2	52.9	56.4	56.4	44.6	0	0	0	58.3	58.2	52.9	0	0	0	0	0	0
15	89.7	90.6	83.2	89.4	90.6	80.1	0	0	0	44.6	90.6	83.2	0	0	0	0	0	0
16	92.6	93.1	85.6	87.6	92.7	61.5	0	0	0	0	93.1	85.6	0	0	0	0	0	0
17	90.5	90.1	83.8	78.9	89.9	59.4	0	0	0	0	90.1	83.8	0	0	0	0	0	0
18	89	89.4	83.8	87.4	89.4	74.8	0	0	0	0	89.4	83.8	0	0	0	0	0	0
19	92.2	92.4	87.2	88.7	92.4	72.7	0	0	0	0	92.4	87.2	0	0	0	0	0	0
20	91.9	91.7	85.1	91.3	86.4	79.9	0	0	0	0	91.7	51.7	0	0	0	0	0	0
21	92.7	92.6	85.1	92.6	89.8	84.6	0	0	0	41.9	89	32	0	0	0	0	0	0
22	90.4	90.7	78.1	90.1	86.6	76.2	0	0	0	90.4	90.7	78.1	0	0	0	0	0	0
23	94.4	94.6	86.1	90.6	93.3	77.6	0	0	0	94.4	94.6	86.1	0	0	0	0	0	0
24	90.2	90.4	83.3	84.7	65.7	59.6	0	0	0	90.2	90.4	83.3	0	0	0	0	0	0
25	91.7	91.3	84	91	72.2	78	0	0	0	91.7	91.3	84	0	0	0	0	0	0
26	98	96.7	95.2	83.3	54.9	65.4	0	0	0	98	96.7	95.2	0	0	0	0	0	0
27	100	98.5	98.5	94.6	76	87.3	0	0	0	100	98.5	98.5	0	0	0	0	0	0
28	99.9	99.2	96.5	96.8	90	91.2	0	0	0	99.9	99.2	96.5	0	0	0	0	0	0
29	100	99.9	94.9	100	99.9	67.8	0	0	0	100	99.9	94.9	0	0	0	0	0	0
30	97.6	97.2	92	97.6	97.2	75.2	0	0	0	97.6	97.2	92	0	0	0	0	0	0
31	96.7	99.4	93.5	91.3	81.8	71	0	0	0	96.7	99.4	93.5	0	0	0	0	0	0
Avg	77.2	77.3	71.9	74	70.7	60.5	0	0	0	41.8	59.5	52.7	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	33.6	33.6	31.6	32.4	32	27.5	0	0	0	44.5	43.9	40.7	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	99.9	98.5	100	99.9	91.2	0	0	0	100	99.9	98.5	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for January, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	97.8	99.8	96.1	87.6	65.8	76.3	0	0	0	95.6	97.8	94.8	0	0	0	0	0	0
2	98.2	100	96.2	75.7	54.2	52.8	0	0	0	98.2	100	96.2	0	0	0	0	0	0
3	96.8	100	95.1	86.9	67.1	58.2	0	0	0	96.8	100	95.1	0	0	0	0	0	0
4	97.5	99.9	96.4	52.4	47.7	52	0	0	0	93.4	29	78.5	0	0	0	0	0	0
5	99.2	99.4	97.1	90.9	82.3	97.1	0	0	0	99.2	0	60.1	0	0	0	0	0	0
6	99.8	99.7	96.9	94.3	86	96.9	0	0	0	99.8	0	96.9	0	0	0	0	0	0
7	99.9	99.9	96	96.4	88.1	94.7	0	0	0	99.9	0	96	0	0	0	0	0	0
8	99.9	99.8	94.7	97.1	90.3	89.9	0	0	0	99.9	0	94.7	0	0	0	0	0	0
9	99.9	100	95.8	97.4	99.5	83.5	0	0	0	99.9	0	95.8	0	0	0	0	0	0
10	99.9	99.9	96.9	97.7	97.8	90.5	0	0	0	99.9	0	96.9	0	0	0	0	0	0
11	95.4	95.4	89.8	36.7	35.9	34.2	0	0	0	38	0	35.5	0	0	0	0	0	0
12	96.9	99.2	94.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	97.7	96.9	94.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	97.8	97.4	94.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	98	97.5	94.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	97.9	97.3	92.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	97.1	97	94.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	98.1	98.1	97.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	98.8	98.6	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	97.7	96.9	92.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	99.2	99.2	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	98.5	98.7	98.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	98	98	97.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	98.8	98.1	96.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	99.2	99.3	98.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	98.8	99	98.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	98.8	98.6	97.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	98.1	98.1	97.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	98.9	97.2	92.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	98.5	93	87.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	98.6	98.5	98.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	98.4	98.4	95.7	29.5	26.3	26.6	0	0	0	32.9	10.5	30.3	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	1.5	2.7	41.4	37.5	38	0	0	0	45.6	29.5	42.5	0	0	0	0	0	0
Min	95.4	93	87.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	99.9	100	99	97.7	99.5	97.1	0	0	0	99.9	100	96.9	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for February, 2

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	98.2	91.3	88.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	99	98.2	98.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	97.8	97.7	97.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	97	96.7	96.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	96.2	93.3	92.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	97.8	85.1	78.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	98.5	94.7	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	97.8	97.5	96.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	97.8	96	91.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	97.2	82.6	75.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	98.5	98.2	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	95.8	88.9	84.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	96.4	94.4	91.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	97.7	94.9	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	97.5	97.3	97.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	93.5	89.6	92.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	97	95.4	92.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	92.5	81	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	96.7	90.8	88.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	96.9	87.4	92.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	95.8	96.5	90.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	95.8	95.8	94.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	98.1	98	97.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	97.6	97.4	96.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	96.6	96.1	95.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	96.8	92.4	94.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	95.1	89.6	90.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	94.9	96	95.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	95.5	95.7	95.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	96.8	93.4	91.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
n	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
SD	1.5	4.7	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	92.5	81	75.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	99	98.2	98.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for March, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	75.8	75.8	75.6	0	0	0	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	0	0	0	0	0	0
3	0	0	0	0	0	0	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	0	0	0	0	0	0
5	31	31.5	31.3	14.9	4.7	1.3	15.1	4.7	1.3	0	0	0	0	0	0	0	0	0
6	83.2	81.5	80.6	55.8	24	24.8	67.4	24	24.8	0	0	0	0	0	0	0	0	0
7	78	74	73.5	57.6	37.3	45.6	57.7	37.4	45.7	0	0	0	0	0	0	0	0	0
8	95.3	91.6	90.1	71.6	36	56.9	71.6	36	56.9	0	0	0	0	0	0	0	0	0
9	95.8	95.8	95.8	72.8	40.8	29.5	72.8	40.8	29.5	0	0	0	0	0	0	0	0	0
10	100	100	99.9	74.3	61.8	47.2	74.3	61.8	47.2	0	0	0	0	0	0	0	0	0
11	100	100	100	81.7	67.8	75.3	81.7	67.8	75.3	0	0	0	0	0	0	0	0	0
12	100	100	100	40.5	26.4	32.9	40.5	26.4	32.9	0	0	0	0	0	0	0	0	0
13	99.7	99.7	99.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	100	100	99.9	11.3	10.4	6.5	11.5	10.6	6.5	0	0	0	0	0	0	0	0	0
15	99.6	99.6	99.3	81.2	70.1	69.9	81.2	70.1	69.9	55.7	55.7	0	0	0	0	0	0	0
16	98.9	98.9	98.9	74.7	55.2	48.9	74.7	55.2	48.9	91.6	91.7	0	0	0	0	0	0	0
17	100	100	100	96.4	76.9	94.4	96.4	76.9	94.4	100	100	0	0	0	0	0	0	0
18	100	100	99.9	77.8	76.6	74	77.8	76.6	74	100	100	0	0	0	0	0	0	0
19	100	100	99.9	79.9	84.7	73.8	79.9	84.7	73.8	100	100	0	0	0	0	0	0	0
20	97.4	97.4	97.4	80.6	74.8	53.8	80.6	74.8	53.8	97.4	97.4	0	0	0	0	0	0	0
21	97.8	97.8	97.8	84.1	73.1	79	84.1	73.1	79	97.8	97.8	21	0	0	0	0	0	0
22	100	100	100	85.9	75.1	78.9	85.9	75.1	78.9	100	100	91.3	0	0	0	0	0	0
23	100	100	100	91.5	76	91.5	91.5	76	91.5	100	100	100	0	0	0	0	0	0
24	100	100	100	81.4	53.3	59.2	81.4	53.3	59.2	100	100	100	0	0	0	0	0	0
25	98.4	98.4	98.4	70.2	58.8	62.1	70.2	58.8	62.1	98.4	98.4	98.4	0	0	0	0	0	0
26	100	100	100	81	74.3	79.5	81	74.3	79.5	100	100	100	0	0	0	0	0	0
27	100	100	100	89.9	78.7	91.2	89.9	78.7	91.2	100	100	100	0	0	0	0	0	0
28	100	100	100	90.9	89.4	86.3	90.9	89.4	86.3	100	100	100	0	0	0	0	0	0
29	99.9	99.9	99.9	98.5	96.2	99.2	98.5	96.2	99.2	99.9	99.9	99.9	0	0	0	0	0	0
30	100	100	100	99.6	91.3	99.4	99.6	91.3	99.4	100	100	100	0	0	0	0	0	0
31	100	100	100	96	93.5	92	96	93.5	92	100	100	100	0	0	0	0	0	0
Avg	85.5	85.2	85.1	62.6	51.8	53.3	63	51.9	53.3	52.9	52.9	32.6	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	30.9	30.9	30.9	34.1	32.4	34.1	34.1	32.3	34.1	48.6	48.6	46	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	99.6	96.2	99.4	99.6	96.2	99.4	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for April, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	97.3	100	91	97.3	100	91	100	100	100	0	0	0	0	0	0
2	100	100	100	98	98	95	98	98	95	100	100	100	0	0	0	0	0	0
3	100	100	100	93.5	91.2	98.6	93.5	91.2	98.6	100	100	100	0	0	0	0	0	0
4	100	100	100	91.5	88.3	81.8	91.5	88.3	81.8	100	100	100	0	0	0	0	0	0
5	92.2	92.2	92.2	91.5	72.2	77.8	91.5	72.2	77.8	91.5	91.4	87.7	0.1	0	0	0.1	0.1	0.1
6	100	100	100	98.8	97	93.3	98.8	97	93.3	84	100	100	0	0	0	0	0	0
7	100	100	100	98.5	89	97	98.5	89	97	100	100	100	0	0	0	0	0	0
8	100	100	100	97	89.5	93.4	97	89.5	93.4	100	100	100	0	0	0	0	0	0
9	100	100	100	94.3	90.4	87.6	94.3	90.4	87.6	100	100	100	0	0	0	0	0	0
10	99.9	99.9	99.9	95	94.2	82.4	95	94.2	82.4	99.9	99.9	99.9	0	0	0	0	0	0
11	100	100	100	98.2	72.3	81.3	98.2	72.3	81.3	100	100	100	0	0	0	0	0	0
12	99.9	99.9	99.9	99.9	60.5	81.9	99.9	60.5	81.9	99.9	99.9	99.9	0	0	0	0	0	0
13	100	100	100	95.3	91.9	69.2	95.3	91.9	69.2	100	100	100	0	0	0	0	0	0
14	100	100	100	93.5	75.6	79.8	93.5	75.6	79.8	100	100	100	0	0	0	0	0	0
15	100	100	100	97.1	81.1	81	97.1	81.1	81	100	100	100	0	0	0	0	0	0
16	100	100	100	97.9	84.9	92.7	97.9	84.9	92.7	100	100	100	0	0	0	0	0	0
17	100	100	100	96.6	91.8	92.2	96.6	91.8	92.2	100	100	100	0	0	0	0	0	0
18	100	100	100	97.4	88.4	93.5	97.4	88.4	93.5	100	100	100	0	0	0	0	0	0
19	99.9	99.9	99.9	96.5	94.7	95.2	96.5	94.7	95.2	99.9	99.9	99.9	0	0	0	0	0	0
20	95.1	95.1	95.1	94.5	94.1	91.9	94.5	94.1	91.9	91.5	91.5	91.5	0	0	0	0	0	0
21	100	100	100	93.7	89.7	83.5	93.7	89.7	83.5	100	100	100	0	0	0	0	0	0
22	93.5	93.5	93.5	92.6	91.7	89.3	92.6	91.7	89.3	93.5	93.5	93.5	0	0	0	0	0	0
23	100	100	100	100	100	97.8	100	100	97.8	100	100	100	0	0	0	0	0	0
24	96.9	96.9	96.9	96.1	93.6	89.5	96.1	93.6	89.5	96.9	96.9	96.9	0	0	0	0	0	0
25	100	100	100	99.2	100	94.1	99.2	100	94.1	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	95.1	100	100	95.1	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	99.6	100	100	99.6	100	100	100	0	0	0	0	0	0
28	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
29	100	100	100	96.9	93.9	84.3	96.9	93.9	84.3	100	100	100	0	0	0	0	0	0
30	100	100	100	92.3	83.3	82.4	92.3	83.3	82.4	100	100	100	0	0	0	0	0	0
Avg	99.2	99.2	99.2	96.4	89.9	89.1	96.4	89.9	89.1	98.6	99.1	99	0	0	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	2	2	2	2.6	9.4	7.5	2.6	9.4	7.5	3.6	2.4	2.9	0	0	0	0	0	0
Min	92.2	92.2	92.2	91.5	60.5	69.2	91.5	60.5	69.2	84	91.4	87.7	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0.1	0	0	0.1	0.1	0.1

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Table F11. Airflow and emission data completeness (%) at Site NC3B for May, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	98.7	89.7	95.4	98.7	89.7	95.4	100	100	100	0	0	0	0	0	0
2	96.4	96.4	96.4	96.4	96.3	89.7	96.4	96.3	89.7	92.4	92.4	92.4	0	0	0	0	0	0
3	81.1	81.1	81.1	81.1	81.1	76.6	81.1	81.1	76.6	68.7	68.7	68.7	0	0	0	0	0	0
4	99.7	99.7	99.7	99.7	99.7	98.3	99.7	99.7	98.3	99.7	99.7	99.7	0.1	0.1	0.1	0.1	0.1	0.1
5	100	100	100	100	100	96.5	100	100	96.5	100	100	100	0	0	0	0	0	0
6	100	100	100	100	99.9	92.6	100	99.9	92.6	100	100	100	0	0	0	0	0	0
7	99.4	99.4	99.4	99.4	97.5	99.4	99.4	97.5	99.4	99.4	99.4	99.4	0	0	0	0	0	0
8	100	100	100	100	100	99.9	100	100	99.9	100	100	100	0	0	0	0	0	0
9	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
10	100	100	100	100	100	99.7	100	100	99.7	100	100	100	0	0	0	0	0	0
11	100	100	100	99.1	100	98.7	99.1	100	98.7	100	100	100	0	0	0	0	0	0
12	100	100	100	98.3	100	94.7	98.3	100	94.7	100	100	100	0	0	0	0	0	0
13	99.7	99.4	99.4	88.5	93	83.6	88.5	93	83.6	96.3	96.3	97.1	0	0	0	0	0	0
14	100	100	100	95.7	92.7	94.1	95.7	92.7	94.1	100	100	100	0	0	0	0	0	0
15	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
16	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
17	99.9	99.9	99.9	99.7	99.8	96.7	99.7	99.8	96.7	99.9	99.9	99.9	0	0	0	0	0	0
18	100	100	100	100	100	97.6	100	100	97.6	100	100	100	0	0	0	0	0	0
19	100	94.7	100	96.5	94.7	94.7	96.5	94.7	94.7	100	94.7	100	0	0	0	0	0	0
20	100	100	100	94	100	99.7	94	100	99.7	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	99.9	100	100	99.9	100	100	100	0	0	0	0	0	0
22	100	100	100	98.3	100	97.1	98.3	100	97.1	100	100	100	0	0	0	0	0	0
23	100	100	100	99.7	100	98.4	99.7	100	98.4	100	100	100	0	0	0	0	0	0
24	99.4	99.4	99.4	99.3	99.4	97.7	99.3	99.4	97.7	96.5	96.5	96.5	0	0	0	0	0	0
25	100	100	100	96.9	100	93.5	96.9	100	93.5	100	100	100	0	0	0	0	0	0
26	100	100	100	96.1	100	91	96.1	100	91	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
28	100	100	100	99.9	100	100	99.9	100	100	100	100	100	0	0	0	0	0	0
29	100	100	100	99.8	99.9	99.5	99.8	99.9	99.5	99.9	99.9	99.9	0	0	0	0	0	0
30	99.9	99.9	99.9	99.9	99.9	97.6	99.9	99.9	97.6	99.8	99.8	99.8	0	0	0	0	0	0
31	100	100	100	100	99.8	100	100	99.8	100	54.9	55.3	55.8	0	0	0	37.4	37.4	37.4
Avg	99.2	99	99.2	98	98.2	96.2	98	98.2	96.2	97	96.9	97.1	0	0	0	1.2	1.2	1.2
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	3.4	3.5	3.4	3.9	4.1	5.2	3.9	4.1	5.2	9.5	9.5	9.4	0	0	0	6.6	6.6	6.6
Min	81.1	81.1	81.1	81.1	81.1	76.6	81.1	81.1	76.6	54.9	55.3	55.8	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0.1	0.1	0.1	37.4	37.4	37.4

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Table F11. Airflow and emission data completeness (%) at Site NC3B for June, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	100	94.1	100	100	94.1	100	0	0	0	0	0	0	100	100	100
2	100	100	100	99.5	96.1	99.9	99.5	96.1	99.9	0	0	0	0	0	0	100	100	100
3	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	100
4	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	100
5	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	100
6	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	100
7	100	100	100	100	100	100	100	100	100	0	0	0	51.7	51.7	51.7	43.9	43.9	43.9
8	100	100	100	100	99.9	97.9	100	99.9	97.9	0	0	0	100	99.9	97.9	0	0	0
9	100	99.5	100	100	99.5	76.7	100	99.5	76.7	0	0	0	89.6	99.5	76.7	0	0	0
10	100	100	100	77.8	77.8	54.6	77.8	77.8	54.6	0	0	0	100	100	76.8	0	0	0
11	0	0	0	0	0	0	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	0	0	0	0	0	0
13	99.9	99.9	99.9	96.6	96	98.1	96.7	96.1	98.5	0	0	0	99.9	99.9	99.9	0	0	0
14	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	0.1	0.1	0.1	99.6	99.6	99.6	0.1	0.1	0.1
15	100	100	100	100	100	99.9	100	100	99.9	41.5	41.5	41.5	43.9	43.9	43.9	0	0	0
16	94.7	99.4	92.2	94.7	99.4	92.2	94.7	99.4	92.2	94.7	99.4	92.2	0	0	0	0	0	0
17	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	98.1	100	100	98.1	100	100	100	0	0	0	0	0	0
20	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
21	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
22	98.2	98.2	98.2	69.1	69.1	69.1	69.2	69.2	69.2	96	95.2	95.2	0	0	0	0	0	0
23	98.3	98.1	99	98.3	98.1	99	98.3	98.1	99	98.3	98.1	99	0	0	0	0	0	0
24	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
25	100	100	100	96	99.9	97.2	96	99.9	97.2	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
28	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
29	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	98.7	98.7	98.7	0	0	0	0	0	0
30	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Avg	93	93.1	92.9	91	91	89.4	91	91	89.4	51	51.1	50.9	19.5	19.8	18.2	21.5	21.5	21.5
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	24.9	24.9	24.9	25.2	25.2	26	25.2	25.2	26	48.8	48.9	48.7	37	37.7	34.6	40	40	40
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99.9	100	100	100

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Table F11. Airflow and emission data completeness (%) at Site NC3B for July, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	98.5	96.5	96.3	98.5	96.5	96.3	100	100	100	0	0	0	0	0	0
2	100	100	100	96.5	97.7	86.7	96.5	97.7	86.7	100	100	100	0	0	0	0	0	0
3	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
4	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
5	72.4	72.4	72.4	67.1	67	67	67.1	67	67	66.2	66.2	65.5	0	0	0	0	0	0
6	0	0	0	0	0	0	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	0	0	0	0	0	0
8	60.1	60.1	60.1	59	58.1	42.2	59.1	58.3	42.2	60.1	60.1	60.1	0	0	0	0	0	0
9	100	100	100	100	99.9	85	100	99.9	85	99.9	99.9	99.9	0	0	0	0	0	0
10	96.9	96.9	96.9	95.8	96.4	95	95.8	96.4	96.9	96.9	96.9	96.9	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	100	100	0	97.8	99.2	0	97.9	99.3	0	100	100	0	0	0	0	0	0	0
13	94.8	94.8	0	94.8	94.8	0	94.8	94.8	0	94.8	94.8	0	0	0	0	0	0	0
14	100	99.9	0	98.6	98.8	0	98.6	98.8	0	100	99.9	0	0	0	0	0	0	0
15	100	100	0	99.8	100	0	99.8	100	0	100	100	0	0	0	0	0	0	0
16	95.6	95.6	50.3	95.6	95.6	50.3	95.6	95.6	50.3	85.1	86.5	40.1	0	0	0	0	0	0
17	100	100	100	99.2	100	99.4	99.2	100	99.4	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
20	100	100	100	100	99.7	100	100	99.7	100	100	100	100	0	0	0	0	0	0
21	100	100	100	99	98.7	98.3	99	98.7	98.3	100	100	100	0	0	0	0	0	0
22	100	100	100	100	99.9	100	100	99.9	100	99.8	99.8	99.8	0	0	0	0	0	0
23	100	100	100	73.9	93.3	100	73.9	93.3	100	100	100	100	0	0	0	0	0	0
24	100	100	100	54.7	100	100	54.7	100	100	100	100	100	0	0	0	0	0	0
25	59.9	59.9	59.9	2.5	40.6	39.2	2.5	40.6	39.2	44.7	44.7	58.4	0	0	0	0	0	0
26	0.1	0.1	0.1	0	0	0.1	0	0	0.1	0	0	0.1	0	0	0	0	0	0
27	0	0	0	0	0	0	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	0	0	0	0	0	0
29	0	0	0	0	0	0	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	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	67.1	67.1	52.9	62.3	65.7	50.3	62.3	65.7	50.4	66	66.1	52.3	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	44.2	44.2	46.7	44.4	44	45.6	44.4	44	45.7	44.1	44.1	46.7	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for August, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	0	0	0	0	0	0	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	0	0	0	0	0	0
3	0	0	0	0	0	0	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	0	0	0	0	0	0
5	0	0	0	0	0	0	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	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	34.7	34.7	0	0	0	0	16.8	17.5	0	0	33.2	0	0	0	0	0	0	0
9	99.2	99.2	50.4	94	98	41.7	94.6	98.6	41.9	44.1	98.7	27.6	0	0	0	0	0	0
10	99.8	99.8	99.8	71.7	77.1	77.1	71.8	77.2	77.2	95.1	98.1	99.8	0.1	0.1	0.1	0.1	0.1	0.1
11	100	100	100	88	96.3	86.9	88	96.3	86.9	100	100	100	0	0	0	0	0	0
12	100	100	100	77.6	86	86.1	77.6	86	86.1	100	100	100	0	0	0	0	0	0
13	100	100	100	95.8	99.9	84.9	95.8	99.9	84.9	100	100	100	0	0	0	0	0	0
14	100	100	100	92.8	98.3	82.4	92.8	98.3	82.4	100	100	100	0	0	0	0	0	0
15	85.6	100	100	80.7	100	89.7	80.7	100	89.7	85.6	100	100	0	0	0	0	0	0
16	72.6	100	100	72.6	100	96.5	72.6	100	96.5	72.6	100	100	0	0	0	0	0	0
17	97.4	97.4	97.4	97.2	97.4	94.5	97.2	97.4	94.5	95.4	95.4	95.4	0	0	0	0	0	0
18	100	100	100	97.2	100	90.3	97.2	100	90.3	100	100	100	0	0	0	0	0	0
19	100	100	100	97.2	100	88.5	97.2	100	88.5	100	100	100	0	0	0	0	0	0
20	100	100	100	100	100	93.9	100	100	93.9	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	99.8	100	100	99.8	100	100	100	0	0	0	0	0	0
22	100	100	100	100	100	97.6	100	100	97.6	100	100	100	0	0	0	0	0	0
23	99.6	99.6	99.6	99.2	99.6	95.9	99.2	99.6	95.9	99.6	99.6	99.6	0	0	0	0	0	0
24	99.4	99.4	99.4	98.5	99.4	93	98.5	99.4	93	96.5	96.5	96.5	0	0	0	0	0	0
25	65.5	65.5	65.5	64.3	65.3	57.1	64.3	65.3	57.1	59	62.3	62	0	0	0	0	0	0
26	57.1	57.1	57.1	56.6	55.9	55.2	56.7	56	55.3	57.1	57.1	57.1	0	0	0	0	0	0
27	99.9	99.9	99.9	75.3	99.9	99.9	75.6	99.9	99.9	99.8	99.8	99.8	0	0	0	0	0	0
28	100	100	100	100	100	100	100	100	100	99.9	99.9	99.9	0	0	0	0	0	0
29	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
30	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
31	99.5	99.5	99.5	50.3	54.3	52.2	50.6	54.4	52.4	98.4	98.5	98.8	0	0	0	0	0	0
Avg	71.3	72.6	70	64.8	68.6	63.3	65.4	69.2	63.3	67.8	72.2	68.9	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	41.2	41.8	43.1	40.4	42.3	40.1	39.6	41.5	40.1	42.4	41.7	43.5	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0.1	0.1	0.1	0.1	0.1	0.1

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Table F11. Airflow and emission data completeness (%) at Site NC3B for September, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	99.8	100	97.8	75.1	75.3	75.3	100	100	100	0	0	0	0	0	0
2	100	100	100	91	94.6	87.6	91	94.6	87.6	100	100	100	0	0	0	0	0	0
3	100	100	100	90.4	96.5	90.3	90.4	96.5	90.3	100	100	100	0	0	0	0	0	0
4	100	100	100	95.1	98.8	92.1	95.1	98.8	92.1	100	100	100	0	0	0	0	0	0
5	100	100	100	69	68.6	74.8	69	68.6	74.8	99.9	99.9	99.9	0	0	0	0	0	0
6	19.3	19.3	19.3	2.2	6.7	8.6	2.2	6.7	8.6	19.3	19.3	19.3	0	0.1	0.2	0.2	0.2	0.2
7	0	0	0	0	0	0	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	0	0	0	0	0	0
9	0	0.1	0.1	0	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0
10	15.9	15.9	15.9	0	0	0	0	0	0	15.9	15.9	15.9	0	0	0	0	0	0
11	100	100	100	23.2	25.1	22.2	23.7	25.6	22.4	99.9	99.9	99.9	0	0	0	0	0	0
12	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
13	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
14	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
15	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
16	100	100	100	99.4	100	100	99.4	100	100	100	100	100	0	0	0	0	0	0
17	100	100	100	96.3	100	94.2	96.3	100	94.2	100	100	100	0	0	0	0	0	0
18	100	100	100	88.8	94.4	82.5	88.8	94.4	82.5	99.9	99.9	99.9	0	0	0	0	0	0
19	100	100	100	96.9	88.7	94.1	96.9	88.7	94.1	100	100	100	0	0	0	0	0	0
20	100	100	100	97.8	82.3	94	97.8	82.3	94	100	100	100	0	0	0	0	0	0
21	100	100	100	71.5	72.4	66.5	71.6	72.5	66.6	97.2	97.2	97.1	0	0	0	0	0	0
22	99.9	99.9	99.9	97.4	98.2	93.1	97.4	98.2	93.1	99.9	99.9	99.9	0	0	0	0	0	0
23	100	100	100	99.4	99.7	99.5	99.4	99.7	99.5	100	100	100	0	0	0	0	0	0
24	100	100	100	98.5	97	97.4	98.5	97	97.4	100	100	100	0	0	0	0	0	0
25	100	100	100	99.4	91.2	98	99.4	91.2	98	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	99.3	100	100	99.3	100	100	100	0	0	0	0	0	0
28	99.9	99.9	99.9	99.9	99.9	96.4	99.9	99.9	96.4	99.9	99.9	99.9	0.1	0.1	0.1	0.1	0.1	0.1
29	99.7	99.7	99.7	59.2	59.4	57.6	59.4	59.5	57.7	99.7	99.7	99.7	0	0	0	0	0	0
30	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0	0	0
Avg	84.5	84.5	84.5	75.8	75.8	74.9	75	75	74.1	84.4	84.4	84.4	0	0	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	34.8	34.8	34.8	37.3	36.8	36.4	37	36.5	36.2	34.8	34.8	34.8	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0.1	0.1	0.2	0.2	0.2	0.2

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Table F11. Airflow and emission data completeness (%) at Site NC3B for October, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	97.3	99.4	94.4	97.3	99.4	94.4	100	100	100	0	0	0	0	0	0
2	100	100	100	82.3	84.2	74.7	82.3	84.2	74.7	100	100	100	0	0	0	0	0	0
3	100	100	100	89.7	88.2	74.7	89.7	88.2	74.7	100	100	100	0	0	0	0	0	0
4	100	100	100	88	99.9	80.9	88	99.9	80.9	100	100	100	0	0	0	0	0	0
5	91.6	91.6	91.6	78.3	76.7	70.4	78.3	76.9	70.4	51.9	52.2	52.2	27.6	30.8	27.6	0	0	0
6	100	100	100	91.7	95.1	81.3	91.7	95.1	81.3	0	0	0	91.7	95.1	81.3	0	0	0
7	100	100	100	96.7	97.7	88.5	96.7	97.7	88.5	0	0	0	96.7	97.7	88.5	0	0	0
8	100	100	100	94.4	99.8	89	94.4	99.8	89	0	0	0	94.4	99.8	89	0	0	0
9	100	100	100	97.8	100	94.9	97.8	100	94.9	0	0	0	97.8	100	94.9	0	0	0
10	100	100	100	100	99.9	100	100	99.9	100	0	0	0	100	99.9	100	0	0	0
11	100	100	100	100	94.3	99.9	100	94.3	99.9	0	0	0	100	94.3	99.9	0	0	0
12	99.7	99.7	99.7	99.7	85	98.8	99.7	85	98.8	0	0	0	92.4	84.9	98.7	0	0	0
13	100	100	100	94.2	96.5	90.7	94.2	96.5	90.7	0	0	0	94.2	96.5	90.7	0	0	0
14	100	100	100	88.3	100	81.7	88.3	100	81.7	0	0	0	88.1	100	81.7	0	0	0
15	100	100	100	90.6	100	85.1	90.6	100	85.1	0	0	0	90.6	100	85.1	0	0	0
16	100	100	100	93.8	100	89.4	93.8	100	89.4	0	0	0	93.8	100	89.4	0	0	0
17	100	100	100	99.4	90.8	96.7	99.4	90.8	96.7	0	0	0	99.4	90.8	96.7	0	0	0
18	98.1	98.1	98.1	14	6.7	12.8	94.4	39.8	79.2	0	0	0	94.4	39.8	79.2	0	0	0
19	100	100	100	0	0	0	90.7	64.2	75.9	44.7	41.3	37	37.6	24.2	37.4	0	0	0
20	100	100	100	0	0	0	93.5	93.5	87.8	100	100	100	0	0	0	0	0	0
21	100	100	100	0	0	0	71.5	74.2	86.6	100	100	100	0	0	0	0	0	0
22	100	100	100	0	0	0	90.8	81.3	82.4	100	100	100	0	0	0	0	0	0
23	100	100	100	0	0	0	95.7	74	91.9	100	100	100	0	0	0	0	0	0
24	100	100	100	0	0	0	99.7	80	98.5	100	100	100	0	0	0	0	0	0
25	100	100	100	0	0	0	100	95.9	99.4	100	100	100	0	0	0	0	0	0
26	100	100	100	0	0	0	96	98.1	84	100	100	100	0	0	0	0	0	0
27	100	100	100	0	0	0	89.4	93	73.5	100	100	100	0	0	0	0	0	0
28	100	100	100	0	0	0	94.5	92.4	74.9	100	100	100	0	0	0	0	0	0
29	100	100	100	0	0	0	95.7	94.9	85.7	99.8	99.8	98.8	0	0	0	0	0	0
30	100	100	100	0	0	0	97	87.1	95.5	100	100	100	0	0	0	0	0	0
31	100	100	100	0	0	0	97.2	98.5	96.9	100	100	100	0	0	0	0	0	0
Avg	99.7	99.7	99.7	51.5	52.1	48.5	93.2	89.5	87.2	54.7	54.6	54.5	41.9	40.4	40	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.5	1.5	1.5	46.1	47.1	43.8	6.4	13	8.8	48.1	48.2	48.2	45.8	45.6	43.8	0	0	0
Min	91.6	91.6	91.6	0	0	0	71.5	39.8	70.4	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for November, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	0	0	0	96.7	98.7	96.2	100	100	98.4	0	0	0	0	0	0
2	100	100	100	0	0	0	61.7	61.7	56.5	95.2	96.3	95.4	0	0	0	0	0	0
3	100	100	100	4.3	2.2	4.3	49.9	25.6	46.5	100	100	99.1	0	0	0	0	0	0
4	100	100	100	65.3	45.8	62.8	65.4	46	62.9	100	100	98.9	0	0	0	0	0	0
5	100	100	100	100	99.5	100	100	99.5	100	100	100	100	0	0	0	0	0	0
6	100	100	100	100	99.8	98.3	100	99.8	98.3	100	100	100	0	0	0	0	0	0
7	100	100	100	97.6	100	94	97.6	100	94	100	100	100	0	0	0	0	0	0
8	100	100	100	97.3	74.6	76.7	97.3	74.6	76.7	100	100	74.5	0	0	0	0	0	0
9	100	99.8	100	80.8	51.7	53.6	80.8	51.7	53.6	100	97.1	48.9	0	0	0	0	0	0
10	100	100	100	95.2	97.6	95.8	95.2	97.6	95.8	100	100	100	0	0	0	0	0	0
11	100	100	100	96.4	88.7	96.6	96.4	88.7	96.6	100	100	100	0	0	0	0	0	0
12	100	100	100	98.5	94.1	97.6	98.5	94.1	97.6	100	100	100	0	0	0	0	0	0
13	100	100	100	100	97.4	100	100	97.4	100	100	100	100	0	0	0	0	0	0
14	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
15	100	100	100	99.9	99.9	99.7	99.9	99.9	99.7	99.9	99.9	99.9	0	0	0	0	0	0
16	99.6	99.4	99.6	75.8	77.1	86.3	75.9	77.2	86.3	94.2	95.4	96.2	0	0	0	0	0	0
17	100	100	100	96.7	97.1	92.5	96.7	97.1	92.5	100	100	100	0	0	0	0	0	0
18	100	100	100	84	75.2	60.5	84	75.2	60.5	100	100	100	0	0	0	0	0	0
19	100	100	100	77.1	85.9	84.8	77.1	85.9	84.8	100	100	100	0	0	0	0	0	0
20	100	100	100	90.2	94	96.5	90.2	94	96.5	100	100	100	0	0	0	0	0	0
21	100	100	100	76.9	73.1	66.5	76.9	73.1	66.5	100	100	100	0	0	0	0	0	0
22	100	100	100	83.8	91	87.5	83.8	91	87.5	100	100	100	0	0	0	0	0	0
23	100	99.9	100	91	90.8	98.7	91	90.8	98.7	97.5	96.8	96.9	0	0	0	0	0	0
24	100	100	100	86.1	79.7	95	86.1	79.7	95	100	100	100	0	0	0	0	0	0
25	100	100	100	86.5	69.4	94.8	86.5	69.4	94.8	100	100	100	0	0	0	0	0	0
26	100	100	100	93.7	85.2	94.2	93.7	85.2	94.2	100	100	100	0	0	0	0	0	0
27	100	100	100	95.5	87.4	97.8	95.5	87.4	97.8	100	100	100	0	0	0	0	0	0
28	100	100	100	93.3	79.1	97.8	93.3	79.1	97.8	100	100	100	0	0	0	0	0	0
29	100	100	100	95.7	80.7	82.4	95.7	80.7	82.4	100	100	100	0	0	0	0	0	0
30	98.3	98.2	98.3	94.6	83.5	47.9	94.6	83.5	47.9	96.9	96.8	96.9	0	0	0	0	0	0
Avg	99.9	99.9	99.9	81.9	76.7	78.8	88.7	82.8	85.3	99.5	99.4	96.8	0	0	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.3	0.3	0.3	28.2	28.5	29.6	12.4	17.6	17.2	1.5	1.3	10	0	0	0	0	0	0
Min	98.3	98.2	98.3	0	0	0	49.9	25.6	46.5	94.2	95.4	48.9	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for December, 2008.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	93.8	58.3	84.9	93.8	58.3	84.9	100	100	100	0	0	0	0	0	0
2	100	100	100	5.8	5.1	5.6	88.4	78.3	91.9	100	100	100	0	0	0	0	0	0
3	100	100	100	0	0	0	93.1	85.5	90.3	100	100	100	0	0	0	0	0	0
4	100	100	100	0	0	0	95.1	84.8	98	100	100	100	0	0	0	0	0	0
5	100	100	100	0	0	0	95.1	66	90.5	100	100	97.9	0	0	0	0	0	0
6	100	100	100	0	0	0	95.8	84	93.5	96.7	96.5	95.7	0	0	0	0	0	0
7	100	100	100	0	0	0	90.7	79.7	85.1	100	100	100	0	0	0	0	0	0
8	99.7	99.7	99.7	0	0	0	94.3	86.3	96.7	99.7	99.7	99.7	0	0	0	0	0	0
9	100	100	100	0	0	0	91.8	85.1	93.8	100	100	100	0	0	0	0	0	0
10	100	100	100	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0
11	100	100	100	0	0	0	100	99.8	100	99.9	98.4	99.9	0	0	0	0	0	0
12	100	100	100	0	0	0	92.8	70.6	88.5	100	100	100	0	0	0	0	0	0
13	62.7	62.7	62.7	0	0	0	50.9	46.6	46.2	62.7	62.7	62.7	0	0	0	0	0	0
14	100	100	100	0	0	0	98.3	90.3	96.4	100	100	100	0	0	0	0	0	0
15	100	100	100	0	0	0	100	90.7	97.4	100	100	100	0	0	0	0	0	0
16	100	100	100	0	0	0	98.5	84.9	94.5	100	100	100	0	0	0	0	0	0
17	96.5	96.5	96.5	0	0	0	93.5	83.1	87	83	83	82.1	0	0	0	0	0	0
18	100	100	100	0	0	0	99.9	92.2	96.3	99.9	99.9	99.9	0	0	0	0	0	0
19	100	100	100	0	0	0	100	86.7	93.1	100	100	100	0	0	0	0	0	0
20	100	100	100	0	0	0	100	85.9	99.6	35	39.2	42.5	0	0	0	0	0	0
21	100	100	100	0	0	0	16.6	9.4	16	0	0	0	0	0	0	0	0	0
22	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	89.7	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	100	100	100	0	0	0	18	2.3	13.3	0	0	0	0	0	0	0	0	0
26	100	100	100	0	0	0	64.2	26.7	68.7	0	0	0	0	0	0	0	0	0
27	97.1	97.1	97.1	0	0	0	56.3	20.1	50	0	0	0	0	0	0	0	0	0
28	100	100	100	46.7	37.4	45.8	66.3	44.2	62.6	37.7	35.8	35.7	0	0	0	0	0	0
29	100	100	100	69.3	54.5	61.7	69.3	54.5	61.7	87.2	67.5	100	0	0	0	0	0	0
30	100	100	100	77.2	73.5	97.8	77.2	73.5	97.8	100	100	100	0	0	0	0	0	0
31	28.7	65.3	67.8	17.7	37.6	35.4	17.7	37.7	35.5	28.7	65.3	67.8	0	0	0	0	0	0
Avg	92.7	94.2	94.3	10	8.6	10.7	72.8	61.5	71.9	68.7	69.3	70.5	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	22	19.3	19.2	24.7	19.9	25.7	34.2	32.7	33.5	42	41.2	41.4	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	93.8	73.5	97.8	100	100	100	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for January, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	0	95.9	99.9	0	75.5	58.8	0	75.5	58.8	0	95.9	99.9	0	0	0	0	0	0
2	53.3	97.4	98.9	44.1	65.4	54.9	44.1	65.4	54.9	53.3	97.4	98.9	0	0	0	0	0	0
3	97.6	97.8	97.6	84.6	58.2	45	84.6	58.2	45	97.6	97.8	97.6	0	0	0	0	0	0
4	100	100	100	88.9	50.6	41.2	88.9	50.6	41.2	100	100	100	0	0	0	0	0	0
5	97.9	98.1	98	84.4	60.1	45.4	84.4	60.1	45.4	96.9	97.2	98	0	0	0	0	0	0
6	100	100	100	82.2	66.9	50.3	82.2	66.9	50.3	100	100	100	0	0	0	0	0	0
7	99.6	99.7	99.6	80.1	80.1	57.4	80.1	80.1	57.4	99.6	99	99.6	0	0	0	0	0	0
8	100	100	100	81.9	61.6	30.8	81.9	61.6	30.8	100	100	100	0	0	0	0	0	0
9	100	100	100	91.7	79.2	36.5	91.7	79.2	36.5	100	100	100	0	0	0	0	0	0
10	100	100	100	78.5	69.8	35.2	78.5	69.8	35.2	100	100	100	0	0	0	0	0	0
11	99.5	100	100	88	52.8	39	88	52.8	39	96.4	96.5	95.8	0	0	0	0	0	0
12	100	100	100	95.3	69.9	46.1	95.3	69.9	46.1	100	100	100	0	0	0	0	0	0
13	100	100	100	96	84	50.6	96	84	50.6	100	100	100	0	0	0	0	0	0
14	99.2	99.3	99.2	96.7	87	41.5	96.7	87	41.5	99.2	99.2	99.2	0	0	0	0	0	0
15	100	100	100	94.9	70.5	40.5	94.9	70.5	40.5	100	100	100	0	0	0	0	0	0
16	100	100	100	93.5	68.6	47.1	93.5	68.6	47.1	100	100	100	0	0	0	0	0	0
17	100	100	100	99	91.3	66.2	99	91.3	66.2	100	100	100	0	0	0	0	0	0
18	100	100	100	50.1	33.8	17.5	36.6	22.6	12.9	96.4	96.4	93.5	0	0	0	0	0	0
19	100	100	100	97	75.1	33.6	0	0	0	100	100	100	0	0	0	0	0	0
20	100	100	100	97.5	77.5	50.1	0	0	0	100	100	100	0	0	0	0	0	0
21	94.2	94.2	94.2	49	51.1	29.7	0	0	0	94.2	94.2	94.2	0	0	0	0	0	0
22	100	100	100	67.2	54.5	25.8	16.3	11.2	4.8	99.8	99.8	99.8	0	0	0	0	0	0
23	100	100	100	94.4	61.6	37.6	94.4	61.6	37.6	99.9	99.9	99.9	0	0	0	0	0	0
24	100	100	100	98.1	60.6	48.7	99.9	60.6	48.7	100	100	100	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	100	100	100	97.8	83.7	73.5	98	83.8	73.5	100	100	100	0	0	0	0	0	0
27	100	100	100	98.5	73.4	50.1	98.5	73.4	50.1	100	100	100	0	0	0	0	0	0
28	100	100	100	97.3	75.6	54.9	97.3	75.6	54.9	100	100	100	0	0	0	0	0	0
29	100	100	100	99.8	85.1	53.9	99.8	85.1	53.9	100	100	100	0	0	0	0	0	0
30	99.7	99.7	100	97.4	59.7	49.2	97.4	59.7	49.2	98.5	98.4	99.7	0	0	0	0	0	0
31	100	100	100	96.4	68.6	47.2	96.4	68.6	47.2	100	100	100	0	0	0	0	0	0
Avg	91.6	96.2	96.4	81.3	66.2	43.8	71.4	57.9	39.3	91.3	95.9	96	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	25.4	17.6	17.6	26	17.4	13.9	36.5	27.6	19.9	25.4	17.6	17.6	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	99.8	91.3	73.5	99.9	91.3	73.5	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for February, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	94.2	69.6	45	94.2	69.6	45	99.9	99.9	99.9	0	0	0	0	0	0
2	100	100	100	98.4	74.8	45.1	98.4	74.8	45.1	100	100	100	0	0	0	0	0	0
3	100	100	100	90.5	76.6	37.2	90.5	76.6	37.2	100	100	100	0	0	0	0	0	0
4	100	100	100	94.6	74.6	43.3	94.6	74.6	43.3	96.9	96.9	96.9	0	0	0	0	0	0
5	100	100	100	92.3	81.9	51.9	92.3	81.9	51.9	100	100	100	0	0	0	0	0	0
6	100	100	100	95.9	69.7	64.4	95.9	69.7	64.4	99.8	99.8	99.8	0	0	0	0	0	0
7	100	100	100	99.6	83.8	74.1	99.6	83.8	74.1	100	100	100	0	0	0	0	0	0
8	100	100	100	99.9	85.8	66	99.9	85.8	66	99.8	99.8	99.8	0	0	0	0	0	0
9	100	100	100	100	92.6	76.7	100	92.6	76.7	100	100	100	0	0	0	0	0	0
10	100	100	100	99.7	82.7	75.3	99.7	82.7	75.3	100	100	100	0	0	0	0	0	0
11	100	100	100	99.9	87.3	87	99.9	87.3	87	100	100	100	0	0	0	0	0	0
12	100	100	100	100	83.8	82.3	100	83.8	82.3	100	100	100	0	0	0	0	0	0
13	100	100	100	99.9	83.8	65.6	99.9	83.8	65.6	100	100	100	0	0	0	0	0	0
14	100	100	100	99.9	84.8	64.2	99.9	84.8	64.2	100	100	100	0	0	0	0	0	0
15	100	100	100	75.2	64.6	52.8	75.3	64.7	52.9	95.6	96.7	95.2	0	0	0	0	0	0
16	100	100	100	99.8	88.1	74.4	99.8	88.1	74.4	100	100	100	0	0	0	0	0	0
17	100	100	100	99.5	91.1	72.1	99.5	91.1	72.1	100	100	100	0	0	0	0	0	0
18	99.7	99.7	99.7	98.7	78.7	64.9	98.7	78.7	64.9	99.7	99.7	99.7	0	0	0	0	0	0
19	87.6	87.6	87.6	86.8	76.5	76.6	86.8	78.1	76.6	87.6	87.6	87.6	0	0	0	0	0	0
20	0	0	0	0	0	0	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	0	0	0	0	0	0
22	39	38.8	38.5	36.3	32.4	17.8	36.3	32.4	17.8	0	0	0	0	0	0	39	38.8	38.5
23	100	100	100	95.5	88.7	67.2	95.5	88.7	67.2	0	0	0	0	0	0	100	100	100
24	99.7	100	100	98.5	92.6	78.1	98.5	92.6	78.1	0	0	0	0	0	0	99.7	100	100
25	100	100	100	99	94.2	81.7	99	94.2	81.7	0	0	0	0	0	0	100	100	100
26	100	100	100	99	87.4	79	99	87.4	79	0	0	0	0	0	0	100	100	100
27	100	100	100	73.1	58.1	57.3	73.2	58.2	57.4	32	31.8	0.1	0	0	0	55.3	55.3	55.3
28	100	100	100	99.8	92.8	93	99.8	92.8	93	100	100	0	0	0	0	0	0	0
Avg	90.2	90.2	90.2	86.6	74.2	60.5	86.7	74.2	60.5	71.8	71.9	67.1	0	0	0	17.6	17.6	17.6
n	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
SD	27.5	27.5	27.6	27.3	24.1	23.4	27.3	24.1	23.4	43.3	43.4	46.2	0	0	0	35.8	35.8	35.8
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	94.2	93	100	94.2	93	100	100	100	0	0	0	100	100	100

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Table F11. Airflow and emission data completeness (%) at Site NC3B for March, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	99.5	95.3	92.8	99.5	95.3	92.8	100	100	0	0	0	0	0	0	0
2	100	100	100	94.6	81.9	48.2	94.6	81.9	48.2	100	100	0	0	0	0	0	0	0
3	100	100	100	96.7	84	75.1	96.7	84	75.1	100	100	0	0	0	0	0	0	0
4	100	100	100	99.2	91.2	85.4	99.2	91.2	85.4	100	100	0	0	0	0	0	0	0
5	100	100	100	99	87.6	80.8	99	87.6	80.8	100	100	0	0	0	0	0	0	0
6	100	100	100	99.9	91	81.1	99.9	91	81.1	100	100	0	0	0	0	0	0	0
7	100	100	100	100	94.2	89.9	100	94.2	89.9	99.8	99.8	0	0	0	0	0	0	0
8	100	100	100	64.9	58.8	59.6	65	58.9	59.7	90.9	96.3	0	0	0	0	0	0	0
9	100	100	100	100	93.4	97.1	100	93.4	97.1	100	100	0	0	0	0	0	0	0
10	100	100	100	99.9	99.9	98.8	99.9	99.9	98.8	99.3	99.3	0	0	0	0	0	0	0
11	100	100	100	98.6	97.9	92.1	98.6	97.9	92.1	100	100	0	0	0	0	0	0	0
12	100	100	100	100	99.6	98.8	100	99.6	98.8	100	100	0	0	0	0	0	0	0
13	100	100	100	99.7	94	92.6	99.7	94	92.6	100	100	0	0	0	0	0	0	0
14	100	100	100	99.8	94.9	89.9	99.8	94.9	89.9	100	100	0	0	0	0	0	0	0
15	99.7	99.7	99.7	96.8	90.9	80.1	96.8	90.9	80.1	95.2	95.3	0	0	0	0	0	0	0
16	100	100	100	95.8	91	80.6	95.8	91	80.6	100	100	0	0	0	0	0	0	0
17	100	100	100	96.1	89.6	83.1	96.1	89.6	83.1	100	100	0	0	0	0	0	0	0
18	100	100	100	88.8	84.1	81.3	88.8	84.1	81.3	100	100	0	0	0	0	0	0	0
19	100	100	100	88.5	89	87.2	88.5	89	87.2	100	100	0	0	0	0	0	0	0
20	100	100	100	99.8	97.4	85.6	99.8	97.4	85.6	100	100	0	0	0	0	0	0	0
21	100	100	100	91.7	89.4	79.4	91.7	89.4	79.4	100	100	0	0	0	0	0	0	0
22	99.9	99.9	99.9	61.3	67.5	54.9	61.4	67.6	55	96.9	96.9	0	0	0	0	0	0	0
23	100	100	100	92.1	92.6	85.4	92.1	92.6	85.4	100	100	0	0	0	0	0	0	0
24	100	100	100	88.5	94.3	91.2	88.5	94.3	91.2	100	100	0	0	0	0	0	0	0
25	100	100	100	91.7	96.7	93.1	91.7	96.7	93.1	100	100	0	0	0	0	0	0	0
26	100	100	100	100	99	99.9	100	99	99.9	100	100	0	0	0	0	0	0	0
27	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
28	100	100	100	100	100	100	100	100	100	96.8	96.6	0	0	0	0	0	0	0
29	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
30	100	100	100	98.7	94	93.1	98.7	94	93.1	100	100	0	0	0	0	0	0	0
31	100	100	100	96.3	93.8	91	96.3	93.8	91	100	100	0	0	0	0	0	0	0
Avg	100	100	100	94.8	91.4	86.1	94.8	91.4	86.1	99.3	99.5	0	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.1	0.1	0.1	9.1	8.9	12.6	9.1	8.9	12.6	1.9	1.3	0	0	0	0	0	0	0
Min	99.7	99.7	99.7	61.3	58.8	48.2	61.4	58.9	48.2	90.9	95.3	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for April, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
2	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
3	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
4	99.9	99.9	99.9	99.9	77.4	79.3	99.9	77.5	79.4	45.5	45.5	0	48.6	48.6	0	0	0	0
5	100	100	100	100	96.5	95.8	100	96.5	95.8	0	0	0	100	96.5	0	0	0	0
6	100	100	100	96	97.7	96.2	96	97.7	96.2	0	0	0	95.8	97.7	0	0	0	0
7	100	100	100	91.9	88.1	89.9	91.9	88.1	89.9	0	0	0	91.9	88.1	0	0	0	0
8	100	100	100	89.9	89.8	86.6	89.9	89.8	86.6	0	0	0	89.9	89.8	0	0	0	0
9	100	100	100	100	97.5	99.7	100	97.5	99.7	0	0	0	100	97.5	0	0	0	0
10	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
11	99.9	99.9	99.9	99.9	99.6	99.2	99.9	99.6	99.2	0	0	0	99.9	99.6	0	0	0	0
12	100	100	100	94.9	90.8	89	94.9	90.8	89	0	0	0	94.7	90.6	0	0	0	0
13	100	100	100	91.5	92.8	91.7	91.5	92.8	91.7	0	0	0	91.5	92.8	0	0	0	0
14	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
16	100	100	100	100	97.5	94.8	100	97.5	94.8	0	0	0	100	97.5	0	0	0	0
17	100	100	100	88.7	84.2	90.3	88.7	84.2	90.3	0	0	0	88.7	84.2	0	0	0	0
18	99.7	99.7	99.7	90.6	93	94.4	90.6	93	94.4	0	0	0	90.6	93	0	0	0	0
19	99.9	99.9	99.9	97.4	94	99.7	97.4	94	99.7	46.3	46.3	0	44.4	40.9	0	0	0	0
20	100	100	100	97.4	99.4	98.3	97.4	99.4	98.3	100	100	0	0	0	0	0	0	0
21	100	100	100	100	99.2	100	100	99.2	100	100	100	0	0	0	0	0	0	0
22	98.8	98.8	98.8	89.5	84.8	85.3	89.5	84.8	85.3	98.8	98.8	0	0	0	0	0	0	0
23	100	100	100	89	92.4	88.2	89	92.4	88.2	100	100	0	0	0	0	0	0	0
24	100	100	100	73.5	73	72.9	73.7	73.1	73.1	100	100	0	0	0	0	0	0	0
25	99.8	99.8	99.8	99.8	98.6	99.8	99.8	98.6	99.8	49.5	49.9	0	0	0	0	47.2	46.9	0
26	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	99.9	99.9	0
27	100	100	100	98.5	98.6	97.8	98.5	98.6	97.8	0	0	0	0	0	0	100	100	0
28	100	100	100	100	98.8	100	100	98.8	100	0	0	0	0	0	0	100	100	0
29	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
30	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
Avg	99.9	99.9	99.9	96.3	94.8	95	96.3	94.8	95	31.3	31.3	0	47.9	47.2	0	18.2	18.2	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.2	0.2	0.2	5.9	7	6.9	5.8	7	6.9	43.6	43.6	0	46.4	45.9	0	37.5	37.5	0
Min	98.8	98.8	98.8	73.5	73	72.9	73.7	73.1	73.1	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	100	100	0	100	100	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for May, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
2	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
3	99.8	99.8	99.8	68.9	68.8	66.8	69	69	66.9	52.2	52.2	0	0	0	0	43.1	44	0
4	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
5	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	0	0	0	0	0	0	0
7	100	100	100	91.7	100	100	91.7	100	100	100	100	0	0	0	0	0	0	0
8	100	100	100	90.4	100	100	90.4	100	100	100	100	0	0	0	0	0	0	0
9	100	100	100	100	99.9	100	100	99.9	100	100	98.5	0	0	0	0	0	0	0
10	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
11	100	100	100	99.9	97	97.6	99.9	97	97.6	100	100	0	0	0	0	0	0	0
12	100	100	100	98.1	92.1	88.2	98.1	92.1	88.2	100	100	0	0	0	0	0	0	0
13	100	100	100	100	85.3	97.2	100	85.3	97.2	100	100	0	0	0	0	0	0	0
14	100	100	100	100	91.6	99.8	100	91.6	99.8	100	100	0	0	0	0	0	0	0
15	100	100	100	100	95.3	100	100	95.3	100	100	100	0	0	0	0	0	0	0
16	100	100	100	67.6	71.7	73.1	67.7	74.9	73.3	59.1	99.8	0	0	0	0	0	0	0
17	100	100	100	42.1	75.2	68.7	42.1	75.3	68.8	0	100	0	0	0	0	0	0	0
18	100	100	100	0	100	78.4	0	100	78.4	0	38.5	0	0	0	0	0	0	0
19	100	100	100	0	94.2	71.3	0	94.2	71.3	0	0	0	0	0	0	0	0	0
20	99.2	99.8	99.8	0	99.8	87.1	0	99.8	87.1	0	0	0	0	0	0	0	0	0
21	99.9	99.9	99.9	0	99.9	99.9	0	99.9	99.9	0	0	0	0	0	0	0	0	0
22	100	100	100	54.5	100	100	54.5	100	100	0	0	0	0	0	0	0	0	0
23	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0
24	99.5	40.4	41.7	99.5	40.3	41.7	99.5	40.3	41.7	0	0	0	0	0	0	0	0	0
25	99.9	0	0	74.4	0	0	74.7	0	0	0	0	0	0	0	0	0	0	0
26	100	0	0	95.8	0	0	95.8	0	0	0	0	0	0	0	0	0	0	0
27	100	0	0	92	0	0	92	0	0	0	0	0	0	0	0	0	0	0
28	100	0	0	94.9	0	0	94.9	0	0	0	0	0	0	0	0	0	0	0
29	100	0	0	94.2	0	0	94.2	0	0	0	0	0	0	0	0	0	0	0
30	99.7	45.5	44.2	58.1	40.1	0.1	58.2	40.3	0.1	0	0	0	0	0	0	0	0	0
31	100	100	100	87.6	99.7	0.6	87.6	99.7	0.6	0	0	0	0	0	0	0	0	0
Avg	99.9	80.2	80.2	77.7	75.8	70	77.7	75.9	70	42.3	48	0	0	0	0	7.8	7.9	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.2	37.8	37.8	33.6	36.7	40.1	33.6	36.7	40.1	47.7	48.3	0	0	0	0	25.4	25.4	0
Min	99.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	100	100	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for June, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	93.1	55.7	5.7	93.1	55.7	5.7	0	0	0	0	0	0	0	0	0
2	100	100	100	97.8	75.7	0	97.8	75.7	0	54.4	0	0	0	0	0	0	0	0
3	100	100	100	100	100	0.2	100	100	0.2	100	0	0	0	0	0	0	0	0
4	100	100	100	99.4	96	49.4	99.4	96	49.4	100	0	0	0	0	0	0	0	0
5	100	100	100	99.9	99.9	83.3	99.9	99.9	83.3	99.9	0	0	0	0	0	0	0	0
6	100	100	100	94.4	93.6	59.1	94.4	93.6	59.1	100	0	0	0	0	0	0	0	0
7	100	100	100	97.6	99.7	82.8	97.6	99.7	82.8	97.2	0	0	0	0	0	0	0	0
8	100	100	100	98.6	98.8	90	98.6	98.8	90	100	0	0	0	0	0	0	0	0
9	99.3	100	100	99.3	100	98.8	99.3	100	98.8	99.3	0	0	0	0	0	0	0	0
10	100	100	100	96.8	96.7	93.9	96.8	96.7	93.9	100	0	0	0	0	0	0	0	0
11	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0	0	0
12	100	100	100	100	100	99.5	100	100	99.5	100	0	0	0	0	0	0	0	0
13	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0
14	97.8	97.8	97.8	97.7	79	97.8	97.7	79.1	97.8	93.7	29.7	0	0	0	0	0	0	0
15	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
16	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
17	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
18	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
19	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
20	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
21	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	48.3	48.3	0	0	0	0	44.3	47.2	0
22	100	100	100	99.5	96.9	97.6	99.5	96.9	97.6	0	0	0	0	0	0	100	100	0
23	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
24	100	100	100	98.4	100	99.5	98.4	100	99.5	0	0	0	0	0	0	100	100	0
25	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
26	100	100	100	70.8	98.5	100	70.8	98.5	100	0	0	0	0	0	0	98.4	100	0
27	99	99	99	48.2	76.7	74.8	48.3	76.8	74.9	43.4	43.3	0	0	0	0	47.8	47.8	0
28	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
29	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
30	99.1	99.1	99.1	71.3	71.3	73.1	73.3	71.5	73.3	99.1	99.1	0	0	0	0	0	0	0
Avg	99.8	99.8	99.8	95.4	94.6	83.5	95.5	94.6	83.5	74.5	34	0	0	0	0	19.7	19.8	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.5	0.5	0.5	11.3	10.9	30	11.2	10.9	30	40.2	44.8	0	0	0	0	37.6	37.7	0
Min	97.8	97.8	97.8	48.2	55.7	0	48.3	55.7	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	100	100	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for July, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	99.9	99.9	99.9	86.9	99.9	99.9	86.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
2	92.8	92.8	92.8	64.6	92.8	92.8	64.6	92.8	92.8	92.8	92.8	0	0	0	0	0	0	0
3	100	100	100	100	99.9	100	100	99.9	100	100	100	0	0	0	0	0	0	0
4	100	100	100	95.6	100	97.1	95.6	100	97.1	100	100	0	0	0	0	0	0	0
5	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
6	100	100	100	92.2	91.4	93.2	92.2	91.4	93.2	100	100	0	0	0	0	0	0	0
7	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0	0
9	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
10	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
11	100	100	100	75.5	75.5	75.5	75.6	75.6	75.6	96.3	96	0	0	0	0	0	0	0
12	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
13	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
14	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
15	100	100	100	99.9	100	99.9	99.9	100	99.9	99.9	99.9	0	0	0	0	0	0	0
16	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
17	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
18	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
19	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
20	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
21	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0	0
22	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
23	100	100	100	99.9	100	100	99.9	100	100	100	100	0	0	0	0	0	0	0
24	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	0	0	0	0	0	0	0
25	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	0	0	0	0	0	0	0
26	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	35.3	34.9	0	54.4	55.3	0	0	0	0
27	100	100	100	100	100	94.7	100	100	94.7	0	0	0	100	100	0	0	0	0
28	100	100	100	100	100	97.3	100	100	97.3	0	0	0	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
31	100	100	100	100	99.9	100	100	99.9	100	0	0	0	100	99.9	0	0	0	0
Avg	99.7	99.7	99.7	97.2	98.6	98.3	97.2	98.6	98.3	81.4	81.4	0	17.9	17.9	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.3	1.3	1.3	7.8	4.7	4.6	7.7	4.6	4.6	37.5	37.5	0	37.3	37.3	0	0	0	0
Min	92.8	92.8	92.8	64.6	75.5	75.5	64.6	75.6	75.6	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	100	100	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for August, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	99.7	100	100	99.7	100	100	99.7	100	0	0	0	99.9	99.7	0	0	0	0
2	100	100	100	100	100	100	100	100	100	0	0	0	100	100	0	0	0	0
3	99.4	99.4	99.4	99.3	99.3	98.7	99.3	99.3	98.7	0	0	0	99.3	99.3	0	0	0	0
4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	99.8	99.8	0	0	0	0
5	99.7	99.7	99.7	99.5	99.7	99.7	99.5	99.7	99.7	0	0	0	99.5	99.4	0	0	0	0
6	100	100	100	96.3	97.4	96	96.3	97.4	96	0	0	0	96.3	97.4	0	0	0	0
7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	99.8	99.8	0	0	0	0
8	99.7	99.7	99.7	72.2	74.2	74.2	72.3	74.4	74.4	0	0	0	50.2	50.2	0	39.4	43.7	0
9	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
10	100	100	100	99.9	99.9	99.7	99.9	99.9	99.7	0	0	0	0	0	0	100	100	0
11	100	100	100	98.2	99.8	99.7	98.2	99.8	99.7	0	0	0	0	0	0	99.4	99.5	0
12	99.6	99.6	99.6	78.3	78.3	78.3	78.5	78.5	78.5	0	0	0	0	0	0	99.6	99.6	0
13	100	100	100	54.6	77.3	77.3	54.9	77.4	77.4	0	0	0	0	0	0	100	100	0
14	100	100	100	100	99.8	100	100	99.8	100	0	0	0	0	0	0	100	100	0
15	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	99.9	99.9	0
16	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
17	100	100	100	100	100	99.9	100	100	99.9	0	0	0	0	0	0	100	100	0
18	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
19	100	100	100	77.4	100	77.4	77.6	100	77.6	0	0	0	0	0	0	100	100	0
20	100	100	100	100	96.5	100	100	100	100	0	0	0	0	0	0	100	100	0
21	100	100	100	100	38.8	100	100	40.6	100	0	0	0	0	0	0	100	100	0
22	99.8	99.8	99.8	99.7	18.8	99.7	99.7	18.9	99.7	0	0	0	0	0	0	99.7	99.7	0
23	99.3	99.3	99.3	99.2	49.4	99.2	99.2	49.6	99.2	0	0	0	0	0	0	99.2	99.2	0
24	100	100	100	99.3	100	98.8	99.3	100	98.8	0	0	0	0	0	0	100	100	0
25	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
26	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	100	100	0
27	96.8	96.8	96.8	96.8	71.7	96.8	96.8	71.9	96.8	42	42	0	0	0	0	48.7	51	0
28	100	100	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
29	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
30	100	100	100	98.8	99.5	98.1	98.8	99.5	100	100	100	0	0	0	0	0	0	0
31	63.4	63.4	63.4	62.9	62.3	61.6	63.1	62.4	61.7	63.4	63.4	0	0	0	0	0	0	0
Avg	98.6	98.6	98.6	94.6	89.1	95.3	94.6	89.3	95.4	13.1	13.1	0	24	24.1	0	60.8	61	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	6.5	6.5	6.5	11.8	20.6	9.8	11.7	20.4	9.8	31.4	31.4	0	41.6	41.6	0	47.1	47	0
Min	63.4	63.4	63.4	54.6	18.8	61.6	54.9	18.9	61.7	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	100	100	0	100	100	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for September, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
2	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
3	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
4	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
5	100	100	100	100	77.9	100	100	78.1	100	92.4	95.6	0	0	0	0	0	0	0
6	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
7	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
8	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
9	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
10	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
11	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
12	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	97.3	0	0	0	0	0	0	0
13	100	100	100	76.7	100	100	100	100	100	100	100	0	0	0	0	0	0	0
14	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
15	99.8	99.8	99.8	58.1	56	59.9	58.2	56.1	60.1	99.8	99.8	0	0	0	0	0	0	0
16	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
17	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
18	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
19	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
20	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	92.8	93.3	0	0	0	0	0	0	0
21	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
22	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
23	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
24	100	100	100	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
25	100	100	100	100	100	99.9	100	100	99.9	100	100	0	0	0	0	0	0	0
26	100	100	100	100	100	99.7	100	100	99.7	100	100	0	0	0	0	0	0	0
27	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0	0
28	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0	0
29	100	100	100	99	100	99.2	99	100	99.2	100	100	0	0	0	0	0	0	0
30	93.9	93.9	93.9	79.2	93.9	88.8	79.2	93.9	88.8	93.9	93.9	0	0	0	0	0	0	0
Avg	99.6	99.6	99.6	97	97.4	98.1	97.7	97.5	98.1	99.3	99.3	0	0	0	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.3	1.3	1.3	9.1	8.7	7.4	8.3	8.7	7.4	2.1	1.8	0	0	0	0	0	0	0
Min	93.9	93.9	93.9	58.1	56	59.9	58.2	56.1	60.1	92.4	93.3	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for October, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	98.5	100	96.3	98.5	100	96.3	96.5	97.1	59.5	0	0	0	0	0	0
2	100	100	100	99.3	99.9	95.6	99.3	99.9	95.6	99.9	99.9	99.8	0	0	0	0	0	0
3	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
4	100	100	100	99.2	100	100	99.2	100	100	100	100	100	0	0	0	0	0	0
5	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
6	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
7	100	100	100	60.5	100	99.8	60.5	100	99.8	100	100	100	0	0	0	0	0	0
8	100	100	100	0	100	93.5	0	100	93.5	100	100	100	0	0	0	0	0	0
9	100	100	100	0	100	95.1	0	100	95.1	100	100	100	0	0	0	0	0	0
10	100	100	100	0	100	100	0	100	100	99.2	100	99.9	0	0	0	0	0	0
11	99.8	99.8	99.8	17.7	61.8	62.4	17.8	61.9	73.1	74	99.8	99.8	0	0	0	0	0	0
12	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
13	100	100	100	100	100	97.4	100	100	97.4	100	100	100	0	0	0	0	0	0
14	100	100	100	51.6	52.3	52.3	58.5	52.3	52.3	100	62.7	64.7	0	0	0	0	0	0
15	100	100	100	76.8	0	0	100	0	0	100	0	0	0	0	0	0	0	0
16	100	100	100	100	0	0	100	0	0	100	0	0	0	0	0	0	0	0
17	100	100	100	100	0	0	100	0	0	100	0	0	0	0	0	0	0	0
18	100	100	100	100	0	0	100	0	0	100	0	0	0	0	0	0	0	0
19	100	100	100	100	0	0	100	0	0	100	0	0	0	0	0	0	0	0
20	100	100	100	51.3	0	0	51.3	0	0	100	0	0	0	0	0	0	0	0
21	98.1	98.1	98.1	63.6	48.5	43.8	63.6	48.7	43.9	98.1	37.4	33.5	0	0	0	0	0	0
22	100	100	100	96.5	98.4	59.7	96.5	98.4	59.9	100	100	100	0	0	0	0	0	0
23	100	100	100	97.4	99.4	100	97.4	99.4	100	100	100	100	0	0	0	0	0	0
24	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
25	100	100	100	97.7	91.4	99.9	97.7	91.4	99.9	99.9	99.9	98	0	0	0	0	0	0
26	100	100	100	96.4	84.5	76.7	96.4	84.5	76.7	100	100	100	0	0	0	0	0	0
27	100	100	100	54.5	64.2	31.7	54.7	64.4	31.7	100	100	100	0	0	0	0	0	0
28	99.9	99.9	99.9	87.9	98.6	83	57.5	68.3	52.6	99.9	99.9	99.9	0	0	0	0	0	0
29	100	100	100	0	0	0	0	0	0	99.2	97.2	100	0	0	0	0	0	0
30	100	100	100	0	0	0	0	0	0	99.5	100	100	0	0	0	0	0	0
31	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
Avg	99.9	99.9	99.9	69.3	64.5	60.9	69.3	63.5	60.3	98.9	77.2	76	0	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.3	0.3	0.3	39.3	43.6	42.7	39.5	43.1	42.6	4.6	39.9	39.9	0	0	0	0	0	0
Min	98.1	98.1	98.1	0	0	0	0	0	0	74	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for November, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
2	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
3	100	100	100	53.8	56.7	37.6	54.2	57	37.8	100	100	100	0	0	0	0	0	0
4	99.7	99.7	99.7	95.9	96.8	60.1	95.9	96.8	60.1	99.7	99.7	99.7	0	0	0	0	0	0
5	100	100	100	97.2	99.9	54	97.2	99.9	54	100	100	100	0	0	0	0	0	0
6	99.9	99.9	99.9	57.2	99.4	40.4	57.2	99.4	40.4	85.5	83.3	79.8	0	0	0	0	0	0
7	100	100	100	36	98.2	45.3	36	98.2	45.3	100	100	100	0	0	0	0	0	0
8	100	100	100	49	99.7	57.3	49	99.7	57.3	100	100	100	0	0	0	0	0	0
9	100	100	100	56.1	100	69	56.1	100	69	100	100	100	0	0	0	0	0	0
10	100	100	100	75.3	100	87.5	75.3	100	87.5	100	100	100	0	0	0	0	0	0
11	100	100	100	97.9	100	95	97.9	100	95	100	100	100	0	0	0	0	0	0
12	100	100	100	84.7	96.9	53	84.7	96.9	53	100	100	100	0	0	0	0	0	0
13	100	100	100	74.5	89.2	49.3	74.5	89.2	49.3	100	100	100	0	0	0	0	0	0
14	99.9	99.9	99.9	54.1	95.5	55.1	54.1	95.5	55.1	99.9	99.9	99.9	0	0	0	0	0	0
15	100	100	100	63.7	98.2	60.4	63.7	98.2	60.4	100	100	100	0	0	0	0	0	0
16	100	100	100	61	99.9	61.5	61	99.9	61.5	100	100	100	0	0	0	0	0	0
17	100	100	100	66.7	98.7	67.8	66.7	98.7	67.8	100	100	100	0	0	0	0	0	0
18	100	100	100	95.1	99	92.2	95.1	99	92.2	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	98.5	100	100	98.5	100	100	100	0	0	0	0	0	0
20	100	100	100	87.6	100	79.9	87.6	100	79.9	100	100	100	0	0	0	0	0	0
21	99.7	99.7	99.7	63.9	98.2	60.7	63.9	98.2	60.7	99.7	99.7	99.7	0	0	0	0	0	0
22	100	100	100	67	99.2	64.6	67	99.2	64.6	100	100	100	0	0	0	0	0	0
23	100	100	100	81	99.9	75	81	99.9	75	100	100	100	0	0	0	0	0	0
24	100	100	100	64.4	96.9	46.3	64.4	96.9	46.3	100	100	100	0	0	0	0	0	0
25	100	57.1	100	60.2	36.9	42.8	60.2	36.9	42.8	100	57.1	100	0	0	0	0	0	0
26	100	0	100	58.8	0	44.6	58.8	0	44.6	100	0	100	0	0	0	0	0	0
27	100	0	100	46.9	0	38.8	46.9	0	38.8	100	0	100	0	0	0	0	0	0
28	100	52.4	100	48	39.2	44.4	48	39.2	44.4	52.8	5.3	54	18.9	16.5	18.1	0	0	0
29	100	100	100	64.9	83.2	66.7	64.9	83.2	66.7	0	0	0	64.9	83.2	66.7	0	0	0
30	100	100	100	73.8	90.7	69.2	73.8	90.7	69.2	0	0	0	73.8	90.7	69.2	0	0	0
Avg	100	90.3	100	64.5	79.1	57.2	64.5	79.1	57.2	91.3	81.5	91.1	5.3	6.4	5.1	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.1	26.6	0.1	24	35.1	22.5	24	35.1	22.5	25.9	36.9	25.9	17.5	21.8	17.1	0	0	0
Min	99.7	0	99.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	98.5	100	100	98.5	100	100	100	73.8	90.7	69.2	0	0	0

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Table F11. Airflow and emission data completeness (%) at Site NC3B for December, 2009.

Day	Airflow			Ammonia			Hydrogen			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	62.4	73.5	58.5	62.4	73.5	58.5	0	0	0	62.4	73.5	58.5	0	0	0
2	99.6	99.6	99.6	88.6	93.4	87.6	88.6	93.4	87.6	0	0	0	88.6	93.4	87.6	39.5	39.5	39.5
3	100	100	100	84	99.6	76	84	99.6	76	0	0	0	83.9	99.6	76	99.9	100	100
4	100	100	100	73.4	85.5	61.1	73.4	85.5	61.1	0	0	0	73.4	85.5	61.1	100	100	100
5	100	100	100	68.1	92.1	48.4	68.1	92.1	48.4	0	0	0	68.1	92.1	48.4	100	100	100
6	99.9	100	100	71.6	75.8	76.5	71.6	75.8	76.5	0	0	0	71.6	75.7	76.4	99.9	99.9	99.9
7	100	100	100	66	87.2	75.7	66	87.2	75.7	0	0	0	66	87.2	75.7	100	100	100
8	99.9	99.9	99.9	80.3	84.9	82.8	80.3	84.9	82.8	0	0	0	80.2	84.9	82.8	99.9	99.9	99.9
9	100	100	100	95.8	98.7	91.6	95.8	98.7	91.6	0	0	0	95.7	98.6	91.5	99.9	99.9	99.9
10	99.9	99.9	99.9	67.2	78.2	64.1	67.2	78.2	64.1	0	0	0	67.2	78.2	64.1	99.9	99.9	99.9
11	100	100	100	73.8	76.2	66.6	73.8	76.2	66.6	0	0	0	73.8	76.2	66.6	100	100	100
12	100	100	100	51	51.5	52.9	51.1	51.6	53.1	0	0	0	52.8	53.4	55.1	96.2	96.7	99.2
13	100	100	100	77.4	88	86.3	77.4	88	86.3	0	0	0	0	0	0	100	100	100
14	100	100	100	57.7	85.9	77.5	57.7	85.9	77.5	0	0	0	0	0	0	100	100	100
15	100	100	100	83.8	100	86.2	83.8	100	86.2	0	0	0	0	0	0	100	100	100
16	100	100	100	74.7	74.4	79.8	74.7	74.4	79.8	0	0	0	0	0	0	100	100	100
17	100	100	100	93.5	92.1	98.2	93.5	92.1	98.2	0	0	0	0	0	0	100	100	100
18	100	100	100	98.7	98.5	99.9	98.7	98.5	99.9	0	0	0	0	0	0	100	100	100
19	100	100	100	66	72.8	64.4	66	72.8	64.4	0	0	0	0	0	0	90.7	97.2	95.7
20	100	100	100	78.3	75.5	88.5	78.3	75.5	88.5	0	0	0	0	0	0	100	100	100
21	100	100	100	80.6	81.3	92.3	80.6	81.3	92.3	0	0	0	0	0	0	99.8	99.8	99.8
22	100	100	100	90.2	87.8	97.1	90.2	87.8	97.1	0	0	0	0	0	0	100	100	100
23	100	100	100	89.5	92	98.2	89.5	92	98.2	0	0	0	0	0	0	100	100	100
24	100	100	100	71.5	72.7	73.8	71.7	72.8	73.9	0	0	0	0	0	0	100	100	100
25	100	100	100	96.5	98.9	99.4	96.5	98.9	99.4	0	0	0	0	0	0	100	100	100
26	100	100	100	47.3	50.1	66.7	47.4	50.1	66.9	43.3	43.3	43.1	0	0	0	52	51.3	52
27	99.2	98.8	100	74.2	68.8	84.2	74.2	68.8	84.2	99.2	98.8	100	0	0	0	0	0	0
28	100	100	100	86.6	86.7	63.7	86.6	86.7	63.7	100	100	100	0	0	0	0	0	0
29	100	100	100	30.8	36	20.8	30.8	36	20.8	99.4	100	100	0	0	0	0	0	0
30	100	100	100	0	0	0	0	0	0	99.6	100	100	0	0	0	0	0	0
31	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
Avg	100	99.9	100	70.3	76.1	71.6	70.3	76.1	71.6	17.5	17.5	17.5	28.5	32.2	27.2	76.7	76.9	77
n	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.2	0.2	0.1	23.7	24.8	25.5	23.7	24.8	25.5	36.8	36.9	37	36.6	41.2	35.2	39.9	40	40
Min	99.2	98.8	99.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	98.7	100	99.9	98.7	100	99.9	100	100	100	95.7	99.6	91.5	100	100	100

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Table F11. Airflow and emission data completeness (%) at Site NC3B for January, 2010.

Day	Airflow			Ammonia			Hydrogen sulfide			PM_{10}			$PM_{2.5}$			TSP		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
1	100	100	100	0	0	0	0	0	0	99.9	99.9	99.9	0	0	0	0	0	0
2	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
3	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
4	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
5	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
6	100	100	100	0	0	0	0	0	0	99.8	99.8	99.8	0	0	0	0	0	0
7	100	100	100	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0
8	100	100	100	19.5	22.4	16.6	19.8	22.7	16.8	95.6	96.1	96.5	0	0	0	0	0	0
9	100	100	100	90	95.5	83.1	90	95.5	83.1	100	100	100	0	0	0	0	0	0
10	100	100	100	97.1	95.5	92.1	97.1	95.5	92.1	99.8	99.8	99.8	0	0	0	0	0	0
11	100	100	100	93.8	95.7	96.8	93.8	95.7	96.8	100	100	100	0	0	0	0	0	0
12	100	100	100	93.1	96	92.3	93.1	96	92.3	100	100	100	0	0	0	0	0	0
13	100	100	100	91.6	94.2	95.1	91.6	94.2	95.1	99.8	99.8	99.8	0	0	0	0	0	0
14																		
15																		
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31																		
Mean	100	100	100	37.3	38.4	36.6	37.3	38.4	36.6	99.6	99.6	99.7	0	0	0	0	0	0
n	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Std. Dev	0	0	0	46.2	47.3	45.8	46.2	47.3	45.8	1.2	1.1	1.0	0	0	0	0	0	0
Min	100	100	100	0	0	0	0	0	0	95.6	96.1	96.5	0	0	0	0	0	0
Max	100	100	100	97.1	96.0	96.8	97.1	96.0	96.8	100	100	100	0	0	0	0	0	0

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