EMISSIONS DATA FROM TWO MANURE-BELT LAYER HOUSES IN INDIANA

Final Report for Site IN2B

of the

National Air Emissions Monitoring Study

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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 U.S.

The NAEMS was managed by Purdue University, in its role as Independent Research Contractor (IRC) to the Agricultural Air Research Council (AARC). Purdue selected equipment and methods in consultation with the U.S. EPA, and subcontracted with other universities to operate the monitoring sites. Purdue University also monitored one dairy, one swine, and two layer sites, maintained and calibrated equipment, collected samples, and conducted all other on-site activities. Purdue University data analysts provided rapid feedback (generally within 2-4 business days) to catch aberrations in the data, and later conducted final processing of the data. Purdue conducted 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 two manure-belt layer houses at an Indiana egg facility. The specific objectives of the report are to:

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

2. CONFINED ANIMAL FEEDING OPERATION

2.1. Farm

The facility consisted of an egg-processing plant, three high-rise caged-hen houses, seven manure-belt caged-hen layer houses, two cage-free laying houses, and one free-standing manure shed (Figure 1). The farm was in an agricultural area with small pockets of trees. Besides the other buildings, the only possible on-farm sources of pollutants were the lagoons that received wastewater from the egg-washing process. There were no identifiable off-farm livestock or poultry farms, other than fields that periodically received manure, within 1.6 km of the farm.

The capacity of the complex was 2.9 million hens. Houses 1-5 were built in 1980 and remodeled in 2005. House 1 was converted to manure-belt in 2007. Houses 2 and 3 had manure drying tunnels that were fully enclosed. Houses 2 through 5 used manure belts and were attached to the manure shed at the east end of each house. Houses 6 and 7 were built in 1997. Houses 8 and 9

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were built in 2004. All of the houses were oriented east-west and were spaced 17-18 m apart. The manure shed for houses 8 and 9 was oriented north-south and was located 3 m from the east end of those two houses and was also constructed in 2004.

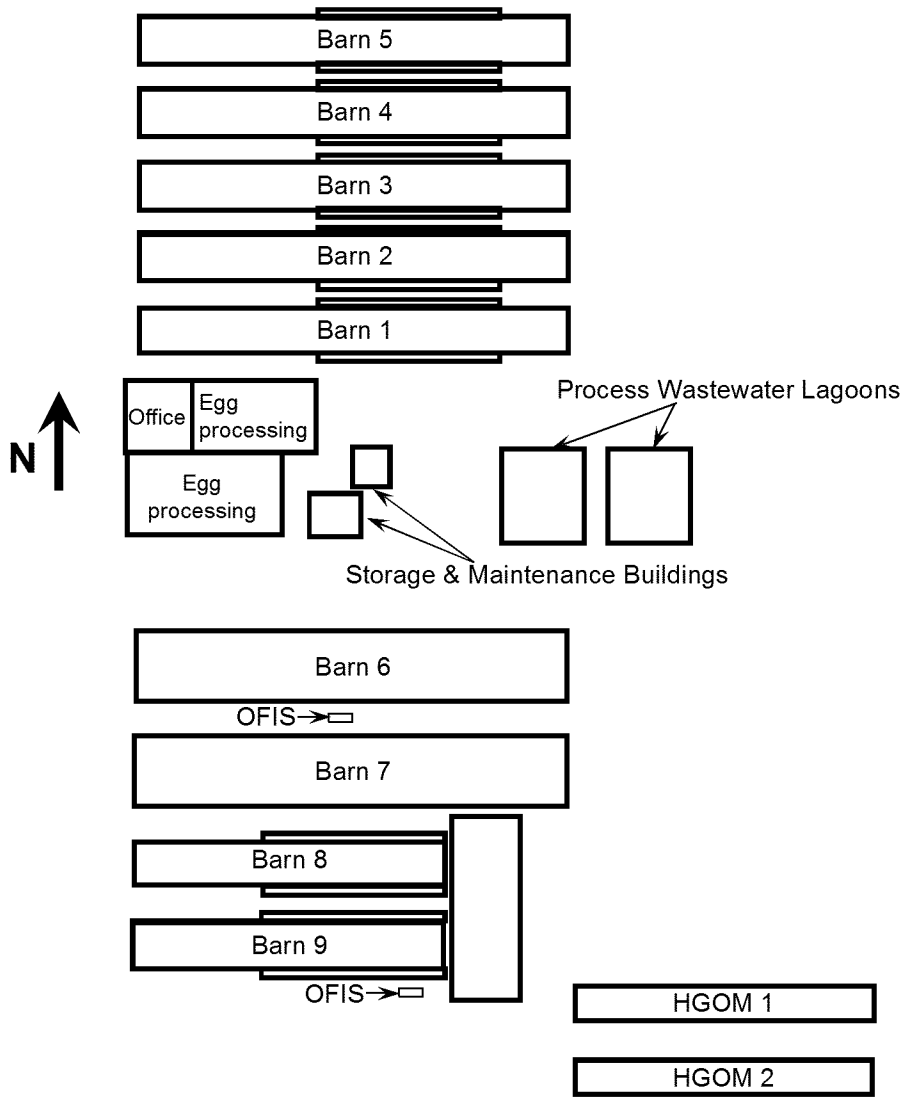

Figure 1. Facility layout. The manure shed and houses 8 and 9 were monitored.

2.2. Monitored Buildings

Emission monitoring was conducted at houses 6 and 7 as site IN2H and houses 8 and 9 and the manure shed as site IN2B, the subject of this report. Houses 8 and 9 were 140 m long and 19.5 m wide, with 7-m sidewalls, and housed 280,000 hens in seven 10-tier rows with H-frame cages (Figure 2). The manure shed for houses 8 and 9 was 85 m long and 30.5 m wide.

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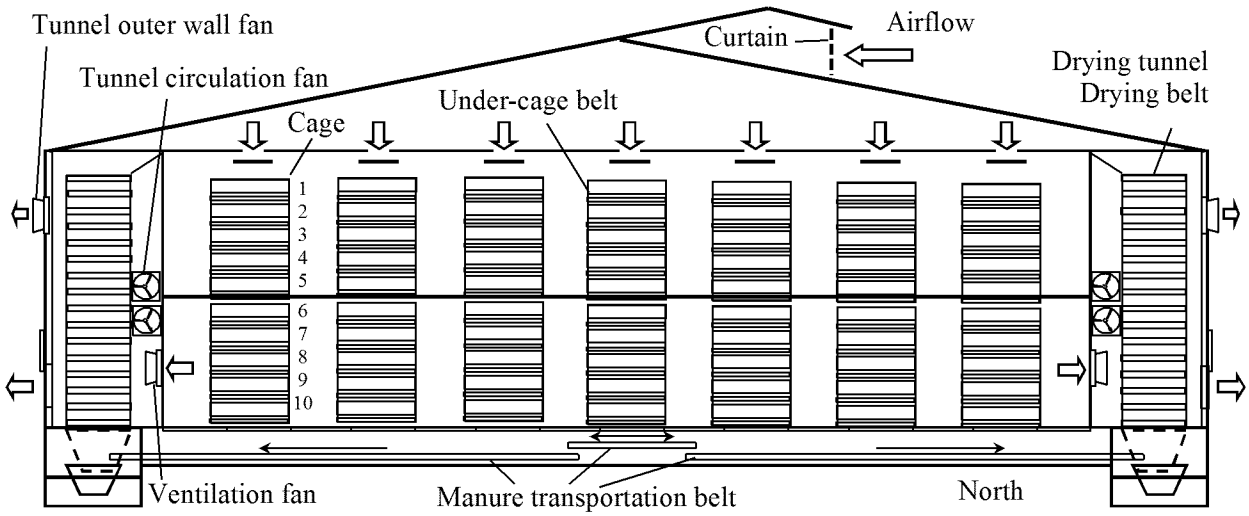

Figure 2. Cross-sectional east side view of houses 8 and 9.

Birds were raised in low-density conditions 155 cm^2/bird, and were molted according to industry standards. Eggs were removed on conveyors into the egg processing plant. Egg production was recorded automatically.

Water was provided to houses 8 and 9 by two wells. Overall water consumption was automatically recorded daily. A corn soy based diet was delivered to the birds in a trough feeder at the front of the cages. Feed was added twelve times daily at fixed schedule (Table 1). Feed consumption was visually checked each week.

Houses 8 and 9 were powered by grid electrical power. Each house was also equipped with an emergency generator. The cage lights were shut off for 8 h each night.

Ventilation air entered the cages from the attic through seven temperature-adjusted baffled ceiling air inlets over every row of cages. There were a total of twelve temperature sensors in each house. Each baffle was controlled in three zones along the house. The ventilation system in each house consisted of eighty-eight 130-cm diameter exhaust fans, 40 fans in the north sidewall, 40 in the south sidewall and eight in east end wall. All the fans were powered with 0.74-kW, 3-phase, 480-VAC motors. The distribution of fans in houses 8 and 9 were nearly identical except for fans 20 to 33.

Table 1. Feeder operation schedule in houses 8 and 9.

Operation	Front to back	Back to front
1	5:30	6:00
2	7:30	8:30
3	10:00	10:03
4	12:00	1:00
5	4:00	4:30
6	6:00	7:00

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There were seven variable speed fans (fans 1, 10, 21, 25, 28, 30, and 33) on each sidewall that operated continuously (Table 2). Therefore, each house had 14 variable speed fans. The houses utilized variable-frequency to modulate the variable speed fans during cold weather for proper ventilation. The other 74 fans per house were single-speed and were grouped into 12 ventilation stages. All the variable and single-speed fans were controlled by two temperature-based building environmental control systems (FanCom), each for forty fans on one sidewall and four fans on the east wall. Thus, the system controlled the north and south side wall fans separately.

Table 2. Fan numbers and ventilation stages for houses 8 and 9.

Stage	Accumulated quantity	North wall fan #	South wall fan #
Variable-spd	14	1, 10, 21, 25, 28, 31, 33	1, 10, 21, 25, 28, 31, 33
1	14+4=18	23, 29	23, 29
2	18+4=22	26, 30	26, 30
3	22+6=28	22, 27, 32	22, 27, 32
4	28+4=32	24, 39	24, 39
5	32+6=38	5, 16, 36	5, 16, 36
6	38+6=44	8, 19, 40	8, 19, 40
7	44+6=50	6, 14, 35	6, 14, 35
8	50+6=56	4, 18, 41	4, 18, 41
9	56+6=62	7, 15, 38	7, 15, 38
10	62+6=68	2, 13, 37	2, 13, 37
11	68+8=76	12, 20, 34, 43	12, 20, 34, 43
12	76+12=88	3, 9, 11, 17, 42, 44	3, 9, 11, 17, 42, 44

Manure was collected on 1.21-m wide plastic belts (Facco) that were under each tier of cages. The belt system was manually operated for approximately 4 h/d in the morning to move the manure 1/3 of the total belt length from west to east. The longest time that any manure stayed in the house was three days. The manure was then conveyed into manure drying tunnels by three belts at the east end of the house (Figure 2).

The manure was delivered in approximately equal amounts to the north and south drying tunnels. The drying belts were located in front of 14 and 13 exhaust fans, which assisted in the drying of the manure, for H8 and H9, respectively. There were also four recirculation fans, two at each end of each drying tunnel for both houses to provide additional airflow through the tunnels.

Each tunnel housed a long 1.6-m wide plastic perforated belt that was serpentined by making 16 two-way passes through the 58-m long tunnel. The tunnel belts operated simultaneously with the house belts. The manure from the house was fed to the top tier in the tunnel and moved tier-by-tier to the bottom tier by gravity. The manure on the perforated belts in the drying tunnel was about 2.5-cm thick and was allowed to dry on the belt for approximately three days. One side of the tunnel drying belts faced the ventilation fans on the house side wall (Figure 3). Air from these fans blew through the conveyor belts to the outside through a ventilation opening in the outer sidewalls of the drying tunnels and through a total of five exhaust fans per outer sidewall. The ventilation opening had a solid shutter panel that was operated by an electric winch. The panel was closed during cold weather. The dried manure from the tunnel was removed to the manure shed via four conveyer belts (one per tunnel).

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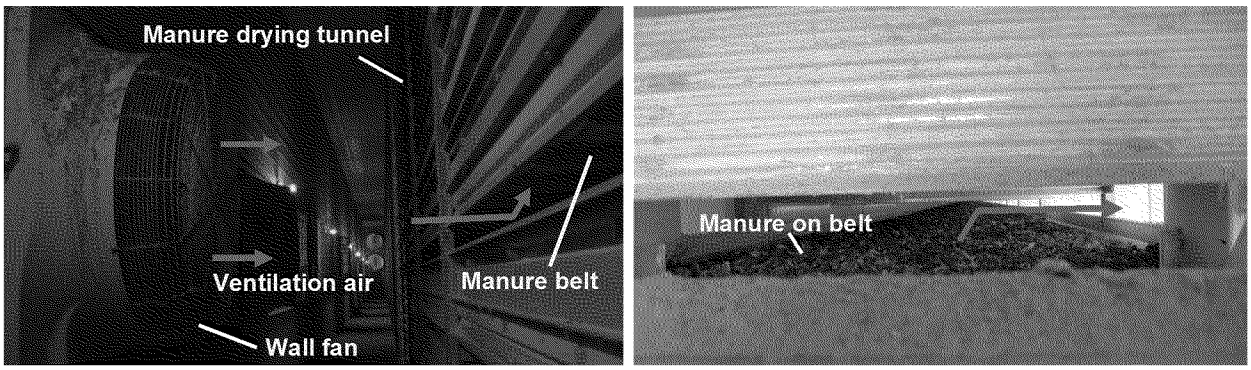

Figure 3. Left: ventilation air blows into the manure drying tunnel air inlets. Right: end view of manure belt in drying tunnel and air outflow direction.

The manure shed was 85 m long and 30.5 m wide with a 7-m side wall height. It had two 0.6-m wide natural ventilation openings that ran the length of the house on the east and west sides. There was also one 0.3-m opening that ran the length of the ridge of the house. The shed had two 7-m wide and 5-m tall drive-through doors located midway in the east and west walls. The manure accumulated in the shed for about 100 to 180 d. Manure was removed by loading semi dump trailers with a front end loader. Removal of the manure occurred throughout the year, depending on the availability of land for application.

2.3. Significant Events and Modifications

Houses 8 and 9 were remodeled by rebuilding the outer walls at the manure drying tunnels sections from September to December 2007. Fans 1 and 10 were converted from single-speed to variable-speed fans in October 2007.

Both houses placed new flocks during the study. Removal of hens from house 8 started during the week of 12/1/07 and the house was full again with a new flock by 12/22/07. Removal of hens from house 9 started during the week of 10/11/08 and the house was full again with a new flock by 10/25/08.

The layers in both houses also went through one molting process during the study. The molting in house 8 started in the week of 1/10/09 and finished in the week of 2/28/09. In house 9, the molting started in the week of the week of 12/5/09 and finished in the week of 1/16/10.

3. MONITORING AND SAMPLING METHODS

3.1. General Approach

Equipment installation and preliminary testing began on 8/23/07 and was completed on November 14, 2009. 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.

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The monitoring period began on 1/1/08 and concluded on 12/31/090. 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 site are shown in Figure 4.The setup consisted of a total of 279 measurement instruments and sensors in addition to one gas dilutor for gas analyzer calibration (Table 3).

More events, including those that occurred in the houses and manure shed, and related to instruments and system maintenance are listed in Appendix A.

Table 3. Overview of the instruments and sensors used in the monitoring at IN2B.

Sensor name	Number	Measurement purpose	Monitoring locations
Gas analyzers	2	Gas concentration	Houses, shed
PM monitors	5	PM concentration	Houses, shed
Thermocouple	20	Temperature	Houses, shed
RH/T sensor	5	Air humidity and temperature	Houses
Vibration sensor	181	Fan on/off monitoring	Single-speed fans
Current switch	4	Manure belt operation	Manure belts
Proximity sensor	28	Fan rotational speed	Variable-speed fans
Vane anemometer	4	Air velocity	Houses and shed
Ultrasonic anemometer	5	Wind direction & velocity	Shed
Barometer*	1	Atmospheric pressure	OFIS
Pressure sensor	12	Static pressure	Houses and OFIS
Activity sensor	7	Animal and worker activity	Cage, door, OFIS
Gas dilutor	1	Calibration gases	OFIS

Note: *built-in TEOM controller unit and connected to the data acquisition system.

Target pollutants for this site were NH_3, H_2S, PM (PM_{10}, TSP, and $PM_{2.5}$), and VOC (Table 5). Carbon dioxide (CO_2) was measured for quality assurance purposes. More details of the measurement variables are listed in Appendix A. Table 5 lists the major instruments used in the test, including the models, manufacturers and serial numbers.

Table 4. Major instrumentation.

Analyzer/Instrument	Serial number
INNOVA 1412 Multi-gas analyzer	710-197
TEI 450i H_2S analyzer	709220678
Environics 4040 dilutor	3922
TEOM 1	265050701
TEOM 2	265090701
TEOM 3	264710612
TEI FH 62C14 (Beta Gauge)	E-1290

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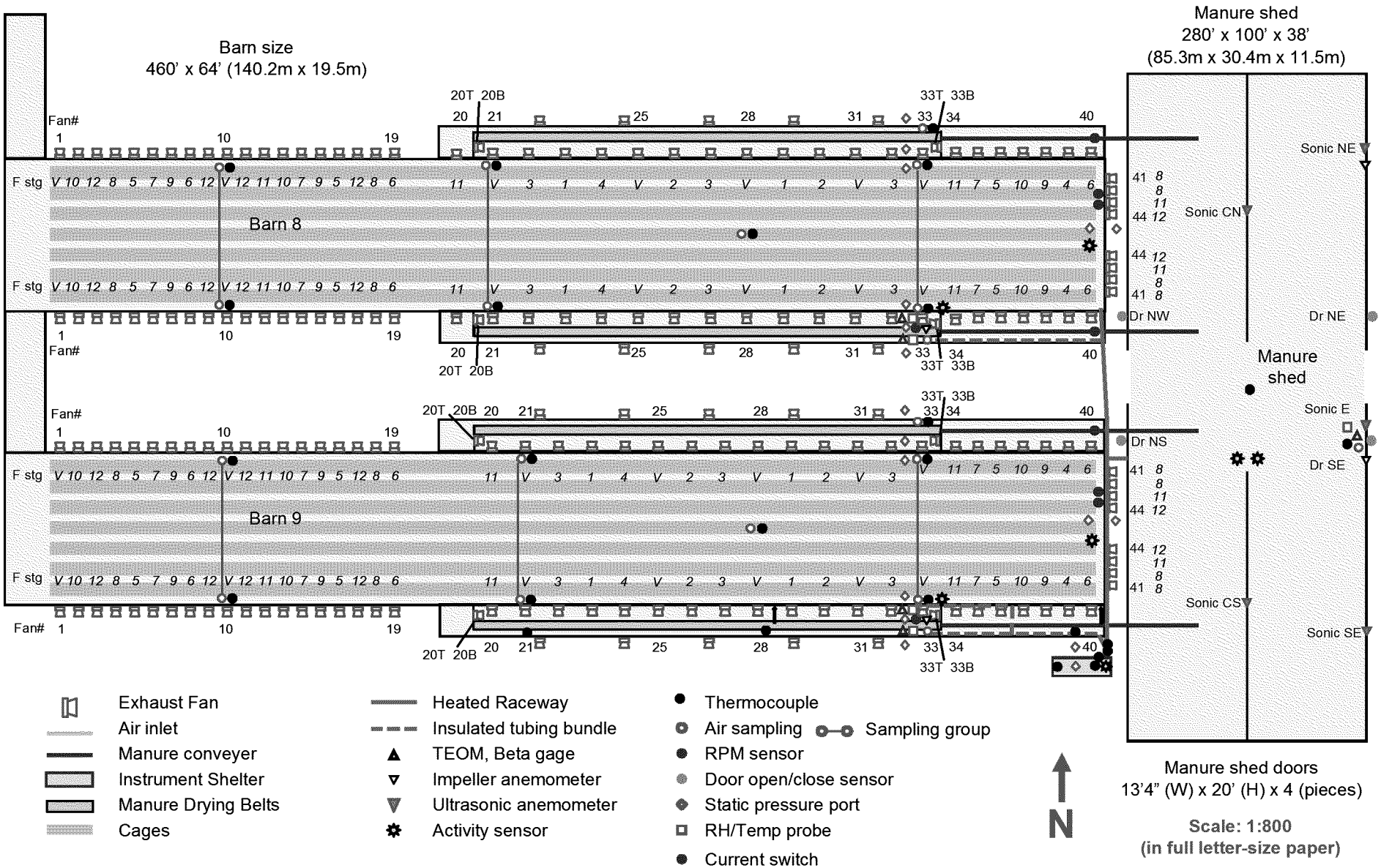

Figure 4. Overhead view of sampling and measurement locations.

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Table 5. Overview of the pollutant concentration monitoring and instruments.

Pollutant	Instrument	Sampling locations	Sampling duration
$PM_{2.5}$	TEOM & Beta Gauge	5	2 weeks per 6 months
PM_{10}	TEOM & Beta Gauge	5	When not for $PM_{2.5}$ or TSP
TSP	TEOM & Beta Gauge	5	1 week per 8 weeks
Ammonia	Innova 1412	13	10 or 20 min each location
Hydrogen sulfide	TFS 450i	13	10 or 20 min each location
VOC	Lab GC-MS	2	24 h each sample

3.2. Instrument Shelter

The on-farm instrument shelter (OFIS) was located on the southeast corner of H9, with its east end approximately even with the east end of the house (Figure 4). Heated raceways were used to connect the OFIS with each house, to avoid condensation in the sampling lines during cold weather.

The OFIS was supplied with 120 VAC (100 A) electric power by the farm. The electrical lines for the OFIS was run from the control room at the west end of H9, along the south sidewall of that house, and across the open ground between H9 and the OFIS to the external pullout switch. The outdoor segments of each power line were protected by electric PVC conduit. A copper ground rod was installed at the location of the OFIS, and connected to the OFIS grounds.

The HVAC system of the OFIS maintained inside temperatures within the operating range for the analyzers, and created a positive pressure with a filtered outside air intake to minimize entry of unfiltered outside air. The OFIS temperature was monitored with T type thermocouples to ensure that the inside temperature was maintained high enough above the dew point to prevent condensation in sample air, but also low enough not to effect the operation of the analytical instruments and the electronics housed in the OFIS. The power supply to the OFIS was monitored to determine when and if the farm had a power outage or power surges.

The differential static pressure in the OFIS was monitored with a pressure sensor. One set of gas analyzers (Table 5) 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.

The OFIS housed three gas analyzers, three TEOM control units, a gas dilutor, all calibration gas cylinders, differential pressure sensors for H9, tools, a counter for computer and gas sampling system, and an office desk.

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 6) were selected and configured to acquire data for all the on-line measurement variables (Appendix A).

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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) GSS cooling fan. Serial communication (RS232) was used to acquire data from the multi-gas monitor and calibration variables (calibration time, gas concentration, etc.) from the gas dilutor. Voltage or current analog signals from various analyzers and sensors were connected to FP-AI-112 modules. Type T thermocouples were connected to FP-TC-120 modules. Digital signals from current switches and vibration sensors were connected to the MC USB DIO96H device. Voltage pulses from proximity sensors used to measure fan rotational speed were detected by the MC USB 4303 Counter.

Table 6. Data acquisition hardware configuration for IN2B.

Manufacturer & model	I/O type	# units	# channels	Notes
NI FP-AI-112	Analog input	5	16	Single-ended, 16-bit
NI FP-TC-120	Thermocouple	3	8	
NI FP-DO-401	Digital output	1	16	2 A at 10-30 VDC
MC USB TC	Thermocouple	1	8	
MC USB 4303 counter	Count input	3	10	
MC USB DIO 96H	Digital input	2	96	
MC USB miniLab	Analog input Digital input	1	8 32	Single-ended, 12-bit 32 with connector board

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 fieldnotes 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

Data on animal inventory and mortalities were recorded manually and on a daily-basis by the producer, and provided to the site personnel on weekly data sheets. Daily mortalities were recorded manually. The producer weighed 100 birds from the same identified cages in each house once weekly for an overall average house weight. Eggs were removed on conveyors into the egg processing plant. Egg production was recorded automatically each day.

The operation of the four manure belts connecting the manure drying tunnels and the manure shed were monitored with current switches (one per belt) that provided on/off signals to the data acquisition system. Four potentiometer sensors were used to determine the position of the four sidewall doors of the manure shed.

Infrared motion sensors (activity sensors) were mounted to support posts along the center axis of the house to monitor movements of birds and workers. An activity sensor was used to monitor researcher presence in the OFIS. Two activity sensors were placed at center of the manure shed, one facing west and one facing east to detect vehicle traffic through either door, or inside the shed in the vicinity of the door.

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3.4.2. Thermal Environment

Weather information was obtained from sensors installed on a 1-m aluminum roof-top tower on H7. The weather sensors included 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).

Temperature and relative humidity (RH) were measured with Novus RH/T sensors (Model RHT-WM, Novus Electronics, Porto Alegre, Brazil) located with each TEOM and Beta Gauge. The capacitance-type relative humidity and temperature probes were placed at the inlet and outlet of the south drying tunnels next to each of the TEOMs. Thermocouples (T-type) were also used to measure temperatures at each gas sampling location that did not have an RH/T sensor, including the central sampling point in the manure shed, instrument rack, pump compartment, and HVAC condenser coil.

3.4.3. Building Airflow

All ventilation fans in houses 8 and 9 were monitored individually and continuously either by vibration sensors (Model OSU-06, Ohio State University, Columbus, OH), magnetic proximity sensors (Model MP100701, Cherry Co., Pleasant Prairie, WI), or impeller anemometers (Model 27106RS, R.M. Young Company, Traverse City, Michigan). The 28 variable speed fans were monitored with proximity sensors. The proximity sensors were mounted to detect the rotational speed in revolutions per minute (rpm) of either the fan shaft or the fan pulley. The digital signal from the speed sensor was converted into a frequency measurement with a counter module in the data acquisition system. All single-speed ventilation fans were monitored with vibration sensors, except for the five fans on each drying tunnel's external wall, which did not contribute to house ventilation. The two south #33 fans in houses 8 and 9 were monitored with all three types of sensors (vibration sensors, proximity sensors, and anemometers).

House differential pressures were continuously measured across each wall that contained fans, and across the outlets of all four drying tunnels (Figure 4). Differential pressure was also measured for the OFIS to ensure that it was maintained under positive pressure. The pressures were measured using pressure sensors (Model 260, Setra Systems, Inc., Boxborough, MA) with a measurement range of -100 to +100 Pa and an accuracy of ±1% of full scale. The sensors' performance was checked six times (1/16/08, 4/4/08, 10/22/08, 5/15/09, 9/4/09, and 12/11/09) by shunting for zero calibration checks. Multi-point calibration checks were conducted two times (5/19/09 and 9/14/09) using a static pressure calibrator (Micro-cal 869, Setra, Boxborough, MA) or an inclined manometer.

To assess the airflow in the naturally ventilated manure shed, five two-dimensional sonic anemometers (Model 85000, RM YOUNG Company) and two impeller anemometers were used. The anemometers were used to measure the air velocity and direction in and out of the manure shed. Two of these anemometers were in the upper opening of the center dividing wall, approximately 15 m north and 15 m south of the drive-through opening in the wall. The other three were installed in the ventilation opening of the east wall, with one placed immediately south of the entrance/exit door, and the other two approximately 22 m north and south of the

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door. The small impeller anemometers were set up at the same locations as the northeast and east sonic anemometers.

In-situ airflow measurements were conducted with a 137-cm field-portable fan tester (Fan Assessment Numeration System or FANS, University of Kentucky, Lexington, KY), which was described by Gates et al. (2004). The field data were used to develop equations that would calculate airflow as a function of differential pressure and fan rotational speed, and to assess the uncertainty in airflow predictions.

Each fan was tested at least once during each fan was tested at least once during three or more of the five testing periods (Table 7). The traversing method was used to test fans that were inaccessible by the fan tester. A total of 224 in-situ fan tests with replication were conducted using the fan tester and traverse method.

Table 7. Summary of number of fans tested or checked with different technologies.

Dates	Fan tester	Traverse	Handheld tachometer
6/25/08 to 11/4/08	43	60	
5/13/09 to 7/2/09	25	48	262
10/2/09 to 12/11/09	3	45	123
Total	71	153	385

A handheld tachometer was also used to periodically check the rotational speeds of a total of 385 fan-measurements to verify fan operation status. Fan models, motor specifications, and dimensions of mechanical parts were also checked for selected fans. The information was used to identify differences among same model fans. As a result, the house ventilation fans were observed to use two different pulleys of fan blades for the variable speed fans. The diameters of the pulleys were slightly different, resulting in different fan rotational speeds. Fans 20 through 33, except for H5 south fan 33, exhibited higher rotational speeds than other fans in both houses. All the ventilation fans in houses 8 and 9 were treated as two groups during data processing and airflow rate calculations. Group A included fans 1-19 and 34-44 on both north and south sides in each house. Group B was composed of fans 20-33 on both sides in each house, with the exception of fan S33 in group B, which had an identical pulley as the fans in group A.

House ventilation rates were calculated by using the fan operation status, house differential pressures, and fan curves that described the relationship between fan airflow rates and differential static pressures. The reference curves of the fans (Model VX511F3C, Aerotech, Mason, MI) were obtained from the Bioenvironmental and Structural Systems (BESS) Lab Project No. 01382 on 11/15/01 at the University of Illinois at Urbana-Champaign (BESS, 2001). The field fan curves were obtained during in-situ tests using the fan tester, traverse measurements, and the fan rotational speeds related to the pulley sizes.

Each performance record consisted of airflow (Q1) measured at several static pressures (P1), and at a relatively constant speeds (N1 = 535 rpm). For each fan type, the BESS fan curve was adjusted to the mean speed (N2) of the fan tests. 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

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$Q_4 = (a\Delta P_4 + b)\cdot(N_4/N_2)\cdot Q_2$, where ΔP_4 and N_4 are measured fan static pressure and speed. For a given test using the portable fan tester or traverse method, the model is $Q_4 = (a\cdot\Delta P_3 + b)\cdot(N_3/N_2)\cdot Q_2$, 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 the 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 8.

Table 8. Models and performance degradation factors for Groups A and B fans.

Reference speed (N_2)	Fan ventilation rate as function of $\triangle P_s$	Degradation factor
Group A		
571	$Q = 2.74E\text{-}05x^3 + 2.20E\text{-}03x^2 + 1.12E\text{-}01x + 1.46E+01$	0.01x+0.6674
504	$Q = 5.15E\text{-}05x^3 + 3.21E\text{-}03x^2 + 1.27E\text{-}01x + 1.28E+01$	0.0004x+0.6096
366	$Q = 2.55E\text{-}04x^3 + 8.40E\text{-}03x^2 + 1.75E\text{-}01x + 9.32E+00$	0.0057x+0.7025
Group B		
618	$Q = 1.85E\text{-}05x^3 + 1.74E\text{-}03x^2 + 1.03E\text{-}01x + 1.58E+01$	0.0048x+0.7263
559	$Q = 3.05E\text{-}05x^3 + 2.35E\text{-}03x^2 + 1.14E\text{-}01x + 1.43E+01$	-0.0045x+0.3334
480	$Q = 6.58E\text{-}05x^3 + 3.72E\text{-}03x^2 + 1.33E\text{-}01x + 1.22E+01$	0.0017x+0.7313

Note: Q is fan airflow rate, and x is $\triangle P_s$ across wall with the specific fan.

3.4.4. Biomaterials Sampling Methods and Schedule

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

The purpose of manure, feed, egg, and water sampling and analysis was to determine the characteristics of layer egg house mass balance for pollutant emissions. The items of the manure, feed, egg, and water samples that were analyzed in Midwest Labs are listed in Table 9.

Table 9. Analyses for the manure, feed, egg, & water samples

Analytical item	Sample type				
	Surface manure	Load-out manure	Feed	Eggs	Water
pH	Yes	Yes			
Total nitrogen (TN)	Yes	Yes	Yes	Yes	Yes
Ammoniacal N (NH_3-N)	Yes	Yes			
Ash		Yes	Yes	Yes	
Moisture	Yes	Yes			
Total sulfur					Yes

3.4.4.1. Feed, Egg, and Water Samples

Four feed samples were taken at the feed conveyer at different locations in each house every 60 d. Each feed sample consisted of 0.5 kg feed. Four egg samples were taken at the cages at different locations every 60 d in each house. Each egg sample consisted of 2 to 3 eggs. One water sample was taken at the cage level from the bird drinking water source into a sample bottle each year at each house. Each water sample contained 0.5 kg water. The feed, egg, and water sampling

schedule is listed in Table 10. The feed, egg, and water samples were brought back to Purdue Agricultural Air Quality Lab stored under room temperature and sent to the Midwest Labs as soon as possible.

Table 10. Feed, egg, and water sampling schedule.

Type	Interval, d	# events	# samples	Total	Sample size
Feed					
H8	60	12	4	48	0.5 kg
H9	60	12	4	48	0.5 kg
Egg					
H8	60	12	4	48	2 to 3 eggs
H9	60	12	4	48	2 to 3 eggs
Water					
H8	365	2	1	2	0.5 kg
H9	365	2	1	2	0.5 kg

3.4.4.2. Manure Samples

Manure existed at five locations: on four types of manure belts and in the manure piles in the shed: 1) belts underneath each tier of bird cages, 2) cage-to-dryer transportation belt, 3) drying tunnel manure belt, 4) drying tunnel-to-shed transportation belt, and 5) manure shed.

A total of 656 manure samples, consist of 216 cage-belt samples, 144 drying tunnel inlet samples, 144 drying tunnel outlet samples, 144 manure shed samples, and eight manure shed load-out samples were taken (Table 11). The weight of each sample was 0.5 kg.

Table 11. Manure sampling schedule for IN2B.

Sampling location	Sampling interval, d	Sampling events	Samples/event	Total samples
B8 Cage belt	60	12	9	108
B9 Cage belt	60	12	9	108
B8 Drying tunnel inlet	60	12	6	72
B9 Drying tunnel inlet	60	12	6	72
B8 Drying tunnel outlet	60	12	6	72
B9 Drying tunnel outlet	60	12	6	72
Manure shed	60	12	12	144
Manure shed load-out	365	2	4	8
Total		86		656

3.5. Particulate Matter Monitoring

Real-time PM monitors (TEOM Model 1400a, Thermo Fisher Scientific, Waltham, MA) continuously sampled exhaust PM in houses 8 and 9. One TEOM was positioned in the enclosed space between the exhaust fan side of fan S33 and the manure drying tunnel in each house. An additional TEOM was setup outside the south manure drying tunnel, directly downstream from fan S33 in each house. The outlet PM was measured in an attempt to measure the PM emitted by the drying tunnel itself. The vacuum lines used to connect the TEOM controllers in the OFIS to

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the sensor TEOM sensor units at PM sampling locations were extended more than 20 m away from the OFIS. This extension was tested and shown that the vacuum pump could be up to 60 m away without reducing airflow.

A beta attenuation PM monitor (Beta Gauge Model FH62C-14, Thermo Fisher Scientific, Franklin, MA) was placed on the high-rise platform in the manure shed, just south of the east wall door, to obtain continuous PM concentrations.

Inlet PM concentration data was obtained from the inlet TEOM at companion site IN2H. located on top of the IN2H OFIS between H6 and H7.

At any one time, the sampled PM size class was either PM_{10}, $PM_{2.5}$, or TSP at both TEOMs and the Beta Gauge. The PM2.5 size class was measured in April, 2008, February and March, 2009 and in June, 2009 for 7 to 23 d each time (Table 12). The TSP inlet heads were placed on the TEOMs for ten, 6- to 8-d periods. The PM10 concentration was measured at all other times.

3.6. Continuous Gas Sampling and Monitoring

Air samples for continuous gas measurements were collected from multiple gas sampling probes with a custom-designed GSS. Each probe was connected to the GSS with Teflon tubing. Tubular raceways between the OFIS and the monitored buildings protected the sampling lines and data signal cables. The sampling lines were wrapped with insulation and heated inside the raceways and at other locations vulnerable to cold air to prevent condensation inside the tubes. Two thermocouples were used to measure the temperatures in each raceway, which housed a heating tape and a bundle of air sampling tubing. The operation of the heating tape was controlled by an on-site computer system, composed of data acquisition hardware, an on-site computer, and custom software, AirDAC (Ni and Heber, 2010).

Table 12. Sampling periods for PM_{10}, $PM_{2.5}$, TSP at all sampling locations.

PM_{10}		$PM_{2.5}$		TSP	
Monitoring period	**Days**	**Monitoring period**	**Days**	**Monitoring period**	**Days**
1/1/08 - 1/30/08	29	4/11/08 - 4/18/08	7	1/30/08 - 2/8/08	8
2/8/08 - 4/4/08	56	2/13/09 - 3/6/09	23	4/4/08 - 4/11/08	7
4/18/08 - 6/19/08	61	6/12/09 - 6/26/09	14	6/19/08 - 6/27/08	8
6/26/08 - 8/14/08	48			10/3/08 - 10/9/08	6
6/27/08 - 10/3/08	96			12/12/08 - 12/18/08	6
10/9/08 - 12/12/08	63			2/6/09 - 2/13/09	7
12/18/08 - 2/6/09	48			4/9/09 - 4/17/09	8
3/4/09 - 4/9/09	35			6/4/09 - 6/12/09	8
4/17/09 - 6/4/09	47			8/14/09 - 8/20/09	6
8/20/09 - 10/9/09	49			10/9/09 - 10/16/09	7
10/16/09 - 1/16/10	90				
Total	662	Total	44	Total	71

One set of gas analyzers in the OFIS was used to sequence through all 13 gas sampling locations (GSL). Hydrogen sulfide was measured with a fluorescence H_2S analyzer (Model 450i, Thermo

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Fisher Scientific, Waltham, MA). Concentrations of NH_3, CO_2, and water content in the sampling air streams were measured using a photoacoustic field gas monitor: (Innova Model 1412 S/N 710-203, LumaSense Technologies; Ballerup, Denmark). The Innova 1412 was a multi-gas monitor that used a photoacoustic infrared method to measure the gas concentrations. Carbon dioxide was included for quality control purposes (Table 5).

The 13 gaseous pollutant sampling locations were as follows (Figure 4):

1. At inlets of three continuously operating variable speed fans on each sidewall (fans 10, 21, and 33) to account for spatial and temporal differences. The Teflon tubing inlet was connected to a 47-mm Teflon dust filter, which was 0.5 m in front of the exhaust fan air inlet, at the same height as the fan hub (about 2 m above the floor). Air sampling tubing at the identical fan numbers on the north and south sides were connected and thus formed three sampling groups in each house. For example, H8 north fan 33 and H8 south fan 33 were composite-sampled with one tube that had a tee running a Teflon tube to each fan. One composite sampling location was moved from fans 28 to fans 10 after the producer changed fans 1 and 10 from single-speed fans to variable-speed fans to improve house ventilation distribution during winter. There were a total of six sampling locations.
2. At the outlet of the drying tunnels, lined up with south and north fan 33, in each house. each of which constituted its own independent sampling location. These sampling locations were placed directly at the tunnel exhaust, 2.5 m above the ground. There were a total of four drying tunnel outlet sampling locations.
3. At house air inlet in the house attics above the middle cage row and lined up with north and south fans 25, one location at each house. The sampling probe was fixed at the middle height of the 25-cm air inlet gutter above the air inlet baffles. House air inlets had a total of two sampling locations.
4. At the east wall close to the door in the manure shed. The sampling probe was fixed at the northwest corner of a platform that was built to house the Beta Gauge, about 1 m east of the south door. The probe was approximately 2-m from the house east wall and 5-m off the floor. Manure shed emission could only be calculated when the wind direction was generally and steadily from the W as determined by the weather station and the sonic anemometers in the shed. There was one sampling location in the manure shed.

To improve the original gas sampling design that was made before the house remodeling, the house sampling locations at fans 21, 28, and 33 were changed to fans 10, 21, and 33 on 6/26/08.

The sampling location, sequence, and duration were controlled automatically or manually. In automatic mode, the sampling duration was 20 min for the first air inlet location and 10 m for all other locations. The sampling sequence was configured according to seasonal ammonia concentration variations at different locations.

3.7. VOC Sampling and Analysis

Grab samples of VOC were collected 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)

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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. All canisters were cleaned and passed QC before sample collection.

Eight sessions of VOC sampling were conducted using Silcosteel canisters for collecting phenols and volatile fatty acids (VFAs). The starting dates were 9/24/09, 10/1/09, 10/7/09, 10/19/09, 11/4/09, 11/5/09, 11/18/09, and 12/9/09. The sampling durations were 24 h. Four canisters were used in each session. The samples were taken with duplication at the inlet of south fan 21 in houses 8 and 9.

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 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.

3.8. Documentation of Quality Assurance

3.8.1. Oversight, Maintenance, and Calibration

Purdue University personnel visited the site routinely and at least once a week. A total of about 120 visits were made during the two year monitoring period. Data files and correspondence were emailed from the site computer on a regular basis. The Science Advisor audited the site on 1/18/08. The Environmental Protection Agency (EPA) conducted site audits on 8/31/09.

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

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3.8.2. Gas Sampling System

Four types of GSS leak tests were conducted. The first test examined GSS integrity by manually or automatically switching the GSS control to a special configuration in AirDAC, which briefly created a "dead head" against the pump by closing all solenoid valves. The GSS manifold vacuum pressure was measurement with the built-in GSS pressure transmitter. Tests indicated that the solenoids and vacuum pump was leak-proof if the vacuum pressure reached -75,000 Pa.

The second test consisted of monitoring GSS flow and pressure after manually setting AirDAC to sample from a particular GSL and plugging the GSL's gas sampling probe, which created a GSS manifold vacuum of about -70,000 Pa or 0.31 atm. The exhaust airflow from the GSS was measured with a rotameter. Preliminary tests demonstrated that if the GSS flows under this condition were 10% or less (<0.45 L/min) of the normal GSS flow rate of 4.5 L/min, the system was leak-free under normal GSS manifold vacuums of -5,500 to -9,500 Pa.

The third test compared the airflow balance at the sampling probe air inlet and the GSS sampling air exhaust using two calibrated rotameters. Individual sampling lines were tested one by one and compared for sampling conditions. The test was conducted on 10/17/07, 10/30/07, 2/8/08, and 03/19/09.

The fourth test was based on zero air balance during gas analyzer zero/span checks. Tests indicated that when the CO_2 concentration read < 80 ppm in the Innova monitor during zero air tests, the system could be considered leak-free.

Data was only invalidated when leaks occurred away from the sampling location. If gas sampling probe filter maintenance eliminated a leak, no data was invalidated since leakage air would be the same as sampled air.

3.8.3. Gas Analyzers

Gas measurements were evaluated using multipoint calibrations and zero and span checks. 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 challenge line eight times using purified air (Cat. # AIO.OCE-T, CEM zero-grade, Praxair, Indianapolis, IN) and three (typical) span concentrations of NH_3 (Cat. # NI-AM5MP-AS, Praxair Primary Standard). Except for the MPC on 12/31/08 and 1/5/09, each MPC was conducted with replication (Table 13). The NH_3 was delivered using a 6-port gas dilutor (Model 4040, Environics, Tolland, CT). The R^2 values of each MPC exceeded 0.99, indicating linearity of instrument response to standard gas between 0 and 60 ppm.

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 during cold and warm seasons were conducted with 100 and 27 ppm of NH_3, respectively.

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Table 13. Multipoint calibration record and results for the NH_3 measurements.

Date	# points	Repetition	Span concentration, ppm		R^2
			Minimum	Maximum	
11/13/07	4	2	11	35	0.9904
01/31/08	4	2	10	27	0.9966
09/10/08	4	2	8	27	0.9957
11/05/08	10	2	10	250	0.9998
12/23/08	4	1	20	100	0.9937
01/05/09	6	1	5	40	0.9931
6/11/09	4	2	10	30	0.9982
1/14/10	7	2	20	100	0.9984

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 14). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table 14).

Table 14. Concentration correction and measurement accuracy for ammonia.

Start time	End time	# checks		Linear model	Accuracy, % of span			
					Bias		Precision	
		Zero	Span		Z	S	Z	S
11/01/07 0:00	1/14/08 13:56	4	4	y=1.006x-0.8	-0.2	3.7	1.2	12.4
1/14/08 13:56	5/18/08 18:40	14	14	y=1.047x-1.2	0.6	-0.3	2.1	3.3
5/18/08 18:40	7/9/08 15:04	7	7	y=1.165x-0.6	5.3	1.5		4.6
07/09/08 15:04	11/21/08 19:46	18	18	y=1.225x-0.8	0.5	-0.1	1.7	3.6
11/21/08 19:46	1/26/09 4:12	8	8	y=1.441x-2.9	0.1	-0.8	1.9	4.0
01/26/09 4:12	3/1/09 5:15	7	7	y=1.213x-2.2	-0.6	0.3	0.4	3.5
03/01/09 5:15	6/4/09 6:20	13	13	y=1.215x-1.2	-0.2	0.5	0.3	3.0
06/04/09 6:20	1/15/10 0:00	28	28	y=1.269x-1.1	-0.2	-0.1	0.8	3.1

3.8.3.2. Correction of Hydrogen Sulfide Concentrations

An MPC was conducted through the challenge line five times using purified air (Cat. # AIO.OCE-T, Praxair CEM zero air) and four to six span concentrations (Cat. # NI-HSR1E-AS, Praxair EPA Protocol Standard). Each MPC was conducted with replication (Table 15). The H_2S was delivered using a 6-port dilutor (Model 040, Environics, Tolland, CT). The R^2 values of each MPC exceeded 0.99, indicating excellent linearity of instrument response to standard gas between 0 and 600 ppb.

Precision checks were conducted weekly (Table 16) 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 600, 500 or 200 ppb of H_2S.

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Table 15. Multipoint calibration record and results for the H_2S measurements.

Date	# points	Repetition	Span concentration, ppb		R^2
			Minimum	Maximum	
11/15/07	4	2	150	450	0.9939
04/17/08	5	2	200	600	0.9968
08/07/08	4	2	50	600	0.9999
06/11/09	4	2	50	200	0.9945
01/14/10	6	2	50	350	0.9993

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 16). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks.

Table 16. Concentration correction and measurement accuracy for hydrogen sulfide.

Start time	End time	# checks		Linear model	Accuracy, % of span			
					Bias		Precision	
		Zero	Span		Z	S	Z	S
11/01/07 0:00	12/30/07 5:12	2	2	y=0.907x-0.9	0.0	0.7	0.1	3.4
12/30/07 5:12	04/17/08 7:16	13	13	y=0.912x-4	-0.1	-0.4	0.2	4.0
04/17/08 7:16	07/31/08 15:09	14	14	y=1.042x-0.8	0.0	-0.6	0.2	7.9
07/31/08 15:09	10/17/08 16:12	13	13	y=1.041x-2.7	-0.1	-0.1	0.2	2.9
10/17/08 16:12	01/10/09 14:12	9	9	y=1.383x-5.1	-0.1		0.4	
01/10/09 14:12	02/9/09 7:18	4	4	y=1.373x-0.5	0.0		0.3	
02/09/09 7:18	02/21/09 18:02	3	3	y=0.809x-1	0.0	-0.4	0.1	1.0
02/21/09 18:02	04/5/09 19:32	7	7	y=0.837x-0.6	0.0	0.4	0.2	1.3
04/05/09 19:32	06/11/09 5:35	11	11	y=0.931x-0.6	0.0	-0.5	0.2	3.2
06/11/09 5:35	08/03/09 1:40	8	8	y=1.104x+0.5	-0.1	-0.1	0.7	3.1
08/03/09 1:40	01/15/10 0:00	19	19	y=0.936x	-0.1	0.4	0.6	1.6

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 32 to 52 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 17).

Table 17. Noise test of gas analyzers with humidified air on 1/15/10.

Gas	Statistical variable				Duration, min	Tdew, °C
	Min	Max	SD	MDL		
NH_3, ppm	0.29	0.63	0.08	0.20	59	7.47
H_2S, ppb	-2.6	1.9	1.0	2.3	34	7.48

3.8.4. Particulate Matter Monitors

The quality of the fan and manure drying tunnel exhaust PM data was assessed through periodic mass verifications and flow and leak checks of the TEOMs (Tables 18-22). The five TEOMs met or exceeded the mass verification criteria (Ko actual within ±2.5% of Ko audit) except for three times with the H8 fan S33 TEOM (Table 18) and two times with H9 drying tunnel outlet TEOM (Table 21).

Table 18. Quality assurance tests of TEOM at H8 fan S33 exhaust.

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
10/31/07			3.036	17.03	0.14	0.27
11/02/07	2				0.14	0.20
11/06/07	4	2.08				
03/27/08	142	2.22	3.18	17.14	0.08	0.06
04/04/08	8	2.64	3.019	16.67	0.17	0.28
06/27/08	84		1.014	17.03	0.18	0.32
12/03/08	159	2.37	0.997	16.35	0.20	0.35
03/24/09	111	2.39	1.00	17.64	0.03	0.10
04/22/09	29		1.039	17.34	0.00	0.11
06/04/09	43	2.89	1.036	17.16	0.01	0.23
08/27/09	84	2.47	1.047	17.33	0.02	0.23
110/6/09	71	2.97	1.077	17.47	0.02	0.31

The criteria for main and total flows were 3.0±0.2 and 16.67±1.0 L min^{-1}, respectively, and were met at all times. The criterion for main flow was 1.0±0.06 L min^{-1} after TEOM flow splitters were used in four of the five TEOMs due to extremely high PM concentrations in the layer houses. These criteria were all met prior to using the flow splitters. After installing the flow splitters, 29% of the tests failed (Table 18-22).

The leakage criteria were ≤0.15 and ≤0.62 $L \cdot min^{-1}$ for main and total flows, respectively. It was met for all checks in five TEOMS except for three times for TEOM at H8 fan S33 exhaust (Table 18), one time for TEOM at H9 fan S33 exhaust (Table 20), five times for TEOM at H9 drying tunnel outlet (Table 21), and ten times for the inlet TEOM at IN2H that was shared with IN2B.

3.9. Data Analysis

3.9.1. Software

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

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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 19. Quality assurance tests of TEOM at H8 drying tunnel outlet.

Date	Time since last test, d	Mass error, %	TEOM flows, L·min^{-1}		Leak test flows, L/min	
			Main	Total	Main	Auxiliary
11/6/07		1.23	3.03	16.62	0.11	0.20
6/27/08	234		3.164	17.59	0.12	0.20
12/3/08	159	0.66	1.008	16.36	0.12	0.22
3/24/09	111	1.24	1.010	16.67	0.13	0.23
4/22/09	29		1.005	16.64	0.13	0.22
6/4/09	43		1.008	16.78	0.13	0.20
8/27/09	84		1.017	16.65	0.14	0.21
8/28/09	85	1.16				
11/6/09	70	1.54	1.025	16.83	0.14	0.21
1/15/10	70	1.31	1.019	16.55	0.14	0.23

Table 20. Quality assurance tests of TEOM at H9 fan S33 exhaust.

Date	Time since last test, d	Mass error, %	TEOM flows, L·min^{-1}		Leak test flows, L·min^{-1}	
			Main	Total	Main	Auxiliary
9/21/07			3.00	16.67	0.08	0.22
6/27/08	280		3.164	17.59	0.12	0.20
12/3/08	159	1.03	1.080	17.34	0.04	-0.12
3/25/09	112	1.43	1.000	15.65	0.04	-0.14
4/23/09	29		1.079	17.62	0.04	-0.12
6/4/09	42		1.065	16.69	0.15	0.13
8/27/09	84		1.084	17.35	0.11	0.06
8/28/09	85	1.63				
11/6/09	70		1.080	17.66	0.09	0.09
11/12/09	76	1.22				
1/15/10	64	1.70	1.068	17.26	0.03	-0.16

3.9.2. Data substitution, validation, correction and uncertainty

3.9.2.1. Pressure

The static pressure sensor measurements were adjusted based on multipoint calibrations conducted on 5/15/09 and 9/4/09, and time-weighted average zero offsets determined by period zero checks.

The average static pressures for each building were determined using data from all properly-operating sensors among the north, east, and south ΔP sensors.

For calculating airflow, the average of the functioning sensors in the house was used whenever the sensor on the fan's actual wall failed. The east wall ΔP was substituted for the south and

north walls ΔP in houses 8 and 9 from 11/1/07 to 4/1/08 when the south and north walls ΔP sensors were erroneously connected and the ΔP data was invalid. The north wall ΔP was substituted for the south wall ΔP in H8 from 4/25/08 to 2/24/09, when the south wall ΔP data were invalid. The south wall ΔP in H9 was substituted for the north wall P from 10/9/09 to 10/28/09 when the north wall ΔP was invalid. The time-weighted offset for all the static pressure sensors are provided in Table 24.

Table 21. Quality assurance tests of TEOM at H9 drying tunnel outlet.

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
9/20/07			3.00	16.66	0.15	0.07
3/27/08	189	0.94	3.035	16.49	0.18	0.34
4/4/08	8	2.55				
6/27/08	84		1.120	17.53	0.09	0.05
12/3/08	159	2.39	1.091	16.62	0.05	0.05
3/24/09	111	2.74	1.058	16.50	0.08	0.05
3/25/09	1	2.46	1.000	15.89		
4/23/09	29		1.078	16.26	0.07	0.06
6/4/09	42		0.994	16.81	0.07	0.06
8/27/09	84		0.852	16.79	0.23	0.06
8/28/09	85	2.28				
11/6/09	70		1.018	17.40	0.36	0.25
11/12/09	76	2.47				
1/15/09	64	2.21	0.851	16.89	0.49	0.04

Table 22. Quality assurance tests of inlet TEOM at IN2H.

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
12/14/06			3.169	16.99	0.08	0.02
12/19/06		0.24				
3/8/07	79	1.7	3.058	16.91	0.00	0.01
9/13/07	189	2.41	3.076	17.42	0.16	0.37
11/14/07	62	2.11	3.018	16.79	0.16	0.46
12/26/07	42	1.70	3.000		0.10	0.22
12/26/07	0	2.09	3.00	15.92	0.17	0.58
4/11/08	107	1.17	3.116	17.40	0.18	0.36
6/26/08	76	2.20	3.125	17.33	0.17	0.25
9/4/08	70	2.08	3.025	16.84	0.18	0.35
12/4/08	91	2.50	2.039	16.97	0.17	0.27
3/5/09	91	1.87	2.989	16.72	0.17	0.49
6/29/09	116	2.08	3.015	16.89	0.14	0.65
7/29/09	30	1.62	3.032	16.15	0.16	0.61
11/13/09	107	2.12	2.972	16.76	0.16	0.26
1/7/10	55	1.95				
1/8/10	56		2.960	16.74	-0.01	0.27

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Table 23. Manure shed PM monitoring quality assurance parameters.

Date	Time since last test, d	Mass verification, %	Total flow check, %
3/27/08		8.11	4.26
4/18/08	22		2.94
5/1/08	13		2.16
9/2/08	159	7.12	
9/2/08	0	0.39	
9/19/08	17		-4.68
2/18/09	169	-0.18	
4/17/09	58		4.38
5/1/09	14		1.20
6/24/09	54		0.78
8/6/09	43		3.06
9/17/09	42		3.60
1/15/09	331	0.47	
1/15/09	120		3.48

Table 24. Time-weighted offsets for all the static pressure sensors.

Sensor	H8 time-weighted offset, Pa	H9 time-weighted offset, Pa
North wall	0.65	0.42
North belt	1.39	-0.01
South wall	3.03	0.34
South belt	2.43	0.15
East wall	-2.20	-1.46

3.9.2.2. Environmental sensors

Indoor air temperatures for each house were defined as the average of the ten temperatures measured at fans 1, 10, 21, 25, and 33 on each sidewall (Figure 4). Air inlet temperature in each house was the temperature measured with TC in the attic air inlet of each house.

House relative humidity (RH) was the RH reading from the OMNI/NOVUS sensors at south F33 in each house. The INNOVA T_{dew} readings for the inlet location were converted to RH, and RH was converted to humidity ratio using the standard conversion equations.

The weather data was obtained from the companion site IN2H from 11/1/07 to 1/15/10. The solar sensor signal was collocated with a reference solar sensor from 6/26/09 to 8/27/09. The two sensor signals did not show significant deviations.

3.9.2.3. Fan operation

There were always at least two functional sensors per fan stage. Because all fans on a stage were driven by the same fan controller, airflow calculations were facilitated by substitutions of operation data from other fans of the same stage. Low-level noise was filtered out by setting the operational status of variable speed fans to "off" (0%) if the average speed was less than 200 rpm.

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Because of failure or excessive noise of some proximity sensors, the B8NF10 fan speed data from 1/1/08 to 3/11/08 were substituted by the B8NF1 fan speed data, the B8NF21 fan speed data were substituted by the B8NF25 fan speed data from 1/1/08 to 5/16/08, and the B9NF10 and B9SF10 fan speed data were substituted by the B9NF1 and B9SF1 fan speed data, respectively from 1/1/08 to 1/15/10.

The 176 exhaust fans in the two houses were separated into four groups during fan data processing based on field investigation of the fan configuration differences. Table 25 provides more descriptions of the fan groups.

Table 25. Groups of IN2B fans based on rotational speeds and fan pulley diameters.

Group	Description	Data processing	Mean speed, rpm	# fans
1	Variable-speed fans not in drying tunnel (fans 1, 10, and B9FS33)	Use speed data	512	9
2	Variable-speed fans in drying tunnel (fans 21-33, not B9FS33)	Use speed data	614	19
3	Single-speed fans not in drying tunnel (fans 1 -19 and 34-44.	Use 510 rpm	510	112
4	Single-speed fans in drying tunnel (fans 20-32)	Use 614 rpm	614	36
	Total number of fans			176

3.9.2.4. Gas concentrations

Table 26 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 26. Gas concentration data validation and interpolation requirements.

Gas	Exhaust sampling locations		Ambient sampling location	
	Equilibration period, min	Max. interpolation interval, min	Equilibration period, min	Max. interpolation interval, min
NH_3	7	300	20	3000
H_2S	5	300	5	3000

Gas and water vapor concentrations, and sample relative humidity, temperature, pressure, flow rate, and flow direction were automatically invalidated during all gas analyzer MPCs and Z/S checks, and when sample $Q < 3.8\ L{\cdot}min^{-1}$. Gas and PM data were invalidated under conditions of positive house static pressure, because house airflow measurements require a negative or under-pressure in the house.

The gas concentration data were considered as valid since 11/1/07. However, there were several periods that the gas analyzers failed and gas concentration data were lost. From 1/24/08 to 5/22/08, the Innova 1412-710-203 was substituted by Innova 1412-710-269 on loan from the Ohio State University. From 6/29/08 to 7/23/08 and from 6/26/09 to 7/6/09, the Innova 1412-710-203 had two internal chopper failures and was out of the site for repair. Gas concentration

data during these two periods were lost. The UV lamp of the 450i H_2S analyzer failed at 11:04 11/30/08 and was not repaired until 12/23/08. The H2S data during this time were lost.

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

$$C'' \quad \frac{C'}{(1 \quad W)} \tag{3-1}$$

and

$$C' \quad \frac{P' \quad c \quad M}{R \quad (273 \quad T')} \tag{3-2}$$

where:

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

3.9.2.5. Particulate Matter Concentrations

There were some PM concentration data substitutions during data processing. There were also some lost data that could not be recovered due to various instrument problems.

In H8, The B8SF33 TEOM was in repair from 1/30/09 to 2/5/09 because of a controller unit failure, and from 4/15/09 to 4/22/09 because of an internal program failure. The B8SBelt TEOM was in repair from 2/21/08 to 6/4/08 and from 5/21/09 to 5/29/09 because of a controller unit failure. In addition, the B8SBelt TEOM analog output configuration was not set correctly from 8/5/08 to 8/12/08. Data was not recovered.

In H9, the B9SF33 TEOM was in repair from 2/14/08 to 4/3/08. The B9SBelt TEOM was under repair from 6/15/09 to 6/23/09 because of an internal software malfunction. The B9SBelt PM data logged into the AirDAC showed negative reading for a long period and did not agree with data downloaded directly from the TEOM. The emission rate calculation at this location used the downloaded PM data.

The Beta Gauge installed in the manure shed was not in use because of instrument repair from 8/23/08 to 9/5/08, from 10/23/08 to 12/2/08, and from 12/23/08 to 2/19/09. PM concentrations during these periods were unavailable.

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3.9.3. Emission calculations

3.9.3.1. Particulate matter

PM emissions were calculated with Eqn. 3-3.

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

Where:

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

3.9.3.2. Gases

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

Where:

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

Building emissions were the summation of the stream emissions. If the interpolated stream concentration was invalid for one stream in a house, the average of the other two stream concentrations was substituted in the emission calculation. Building emission was divided by variables (house inventory, 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.

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4. RESULTS

4.1. Farm Production Information

The farm production information, including inventory, bird mass and density are presented in Table F2. Bird genetics were W36.

The average bird numbers in H8 and H9 during the two year monitoring were 250,110 and 246,353, respectively. The average bird weights ranged from 1.20 to 1.52 kg in H8 and 1.15 to 1.53 kg in H9. The average bird densities were 129.9 and 127.5 $kg \cdot m^{-3}$ for H8 and H9, respectively.

4.2. Characteristics of Biomaterials

The summarized results of lab analyses of the various biomaterials are available in Tables E1 to E7 (Appendix E).

The layer manure pH ranged from 7.08±0.24 to 8.76±0.00 in samples taken from the under-cage manure belts, manure belts in the manure drying tunnels, and in the manure shed, respectively. The wet weight based solids content in the manure samples varied from 23.9±2.09% to 87.7±0.78%. The percentage of wet weight based ammonia in the manure ranged from 0.20±0.15% to 0.91±0.32%.

The wet weight-based solid in the 64 feed samples ranged from 83.5±6.26% to 90.1±0.84% and the TKN concentration ranged from 1.67±0.38% to 2.55±0.15%.

The minimum wet weight-based solids content and TKN concentration of the 64 egg samples were 22.5±0.39% and 1.09±0.10%, respectively. The maximum wet weight-based solids content and TKN concentration were 21.9±1.85% and 2.27±0.83%, respectively.

Water samples taken from wells, after resin beds, and in the houses showed TKN from non-detectable to 0.67 $mg \cdot L^{-1}$, nitrate/nitrite from non-detectable to 0.68 $mg \cdot L^{-1}$, and total N from non-detectable to 1.18 $mg \cdot L^{-1}$. The total sulfur contents in the water samples ranged from 9.9 to 10.5 $mg \cdot L^{-1}$.

4.3. Environmental Conditions

4.3.1. Ambient conditions

The weather conditions at the monitoring site are shown in Table 27. According to historical climatic information, daytime average high temperatures range from -1°C in the winter to 29°C in the summer. Average overnight lows range from -9°C in winter to 17°C in summer. Typical prevailing winds for the region are from the west in the winter and southwest during the rest of the year. Table F1 (Appendix F) shows the daily average outdoor temperature, relative humidity, wind speed, wind direction, solar radiation and barometric pressure. The ADM outdoor temperature was 11.8ºC compared with the annual average of 9.4ºC shown in Table 27.

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Table 27. Monthly averages for weather conditions in the area*.

Month	Temperature*,°C			Wind speed, km•h^{-1}	Wind direction, °
	High	Low	Mean		
January	-1	-9	-5	21	W
February	1	-8	-3	19	W
March	8	-2	3	21	W
April	15	4	9	20	W
May	22	10	15	17	SW
June	27	15	21	16	SW
July	29	17	22	14	SW
August	28	16	21	13	SW
September	24	12	17	14	SW
October	17	6	11	16	SW
November	10	1	4	18	SW
December	2	6	-2	19	W
Annual average	15	6	9.4		

*** http://www.weather.com/weather/wxclimatology/monthly/46992**

4.3.2. House Conditions

The environmental conditions in H8 and H9 are shown in Figure 5. The minimum and maximum daily mean inlet temperatures were -18.4 and 29.6°C, respectively. The average daily mean inlet temperature was 11.8±10.9°C. The environmental conditions in the two houses are shown in Table F3. The average daily mean room temperatures for H8 and H9 were 26.9±2.5 and 26.5±2.5°C, respectively.

4.3.3. Ventilation Rate

The seasonal variations of the house airflow rate followed the seasonal ambient temperature variations. The median static pressure differential was -36.5±8.2 Pa for H8 and -48.9±8.1 Pa for H9 (Table F3). The fraction of time that the pressure was positive ranged from 0.0 to 0.5%. Most of the positive pressures were likely wind-induced. Static pressure was greater than 20 Pa over 85% of the time for H8 and over 97% of the time for H9.

The ventilation rates of H8 ranged from 9.6 m^3s^{-1} during winter to 542.0 m^3s^{-1} during the summer (Figure 5). They ranged from 19.7 m^3s^{-1} during winter to 562.0 m^3s^{-1} during the summer in H9. The overall average ventilation rates were 129.5 and 127.1 m^3s^{-1} for H8 and H9, respectively.

4.4. Particulate Matter Concentration and Emissions

4.4.1. PM_{10}

The characteristics of daily mean inlet, house, manure drying tunnel, and the manure shed PM_{10} concentrations are listed in Table 28. Table 29 lists characteristics PM_{10} emissions from these

locations in different units. Figure 6 illustrates the variations of daily mean PM_{10} emissions from the two houses. Data of all daily mean PM_{10} concentrations and emission rates are listed in Tables F4a, F4b, and F4c.

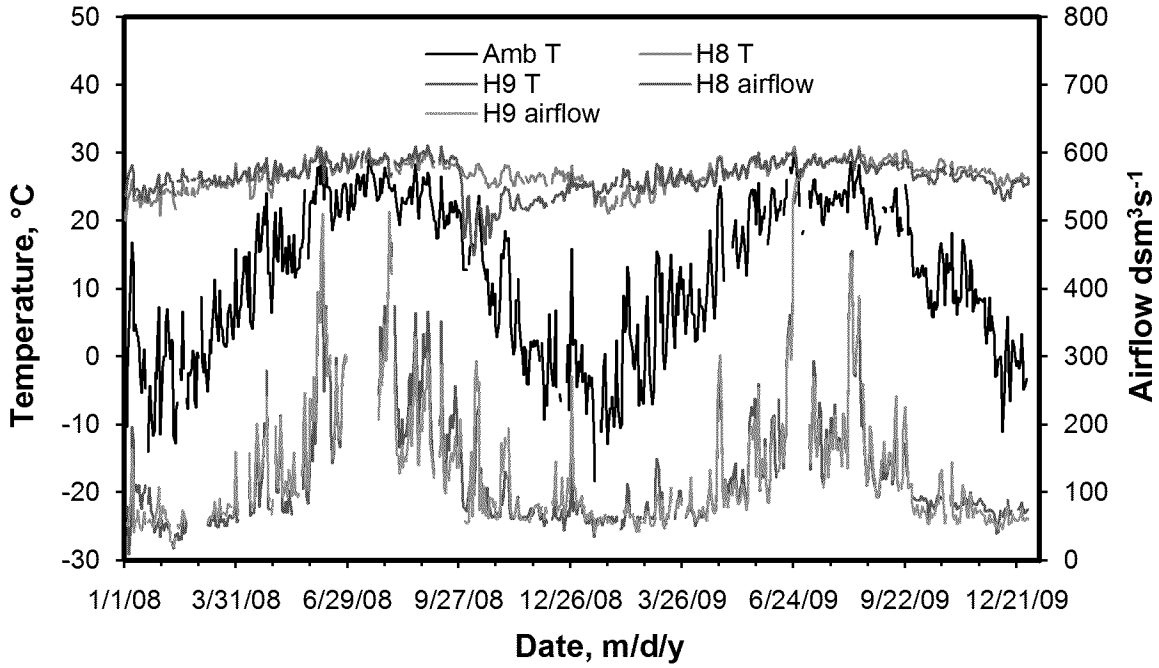

Figure 5. Inlet and indoor temperatures and dry standard airflow rate for houses 8 and 9.

Table 28. Characteristics of PM_{10} concentrations.

Variable	Inlet	H8	H9	H8 tunnel	H9 tunnel	Shed
Avg±SD, $\mu g \cdot dsm^{-3}$	123±147	369±408	773±670	808±1163	518±661	208±182
Min, $\mu g \cdot dsm^{-3}$	-206	-15	-46.2	-13	-3.68	-77.6
Max, $\mu g \cdot dsm^{-3}$	1870	2740	4080	7640	8650	1090
Valid DMs, d	366	477	473	405	581	453

Table 29. Characteristics of PM_{10} emissions.

Variable	H8	H9	Shed
Avg±SD, $g \cdot d^{-1}$	2209±4440	6075±8225	134±293
Min, $g \cdot d^{-1}$	-4610	-6850	-358
Max, $g \cdot d^{-1}$	33200	66500	2560
Valid DMs, d	346	361	307
Avg±SD, $mg \cdot d^{-1} hd^{-1}$	8.9±17.8	25.2±33.3	0.3±0.6
Min, $mg \cdot d^{-1} hd^{-1}$	-18	-28.6	-0.661
Max, $mg \cdot d^{-1} hd^{-1}$	136	269	5.01

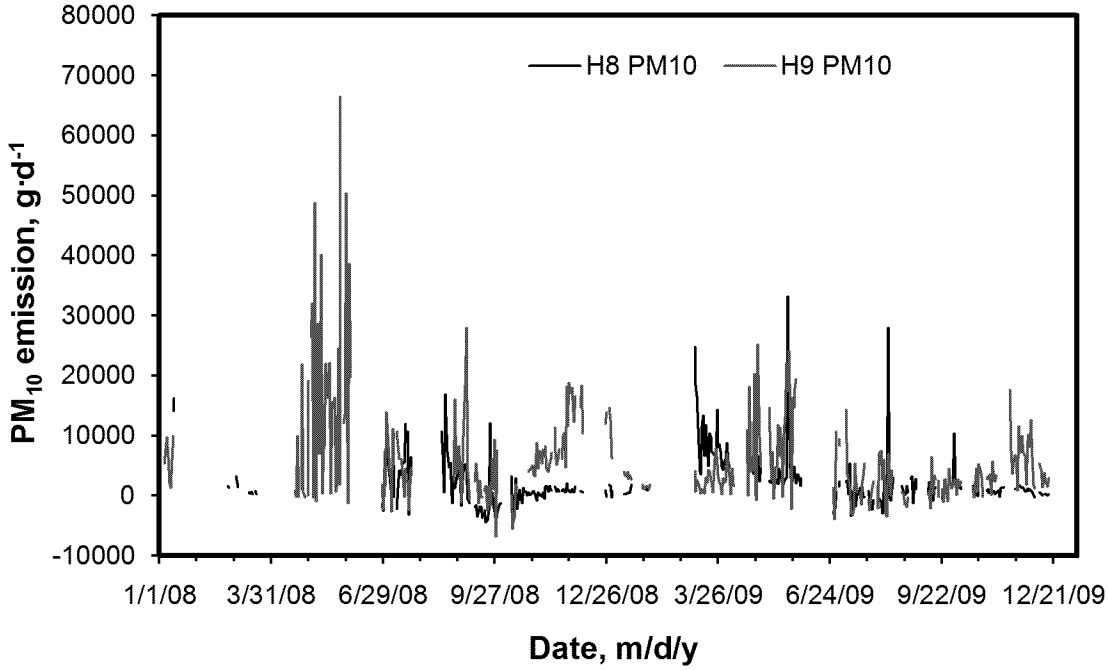

Figure 6. Daily mean PM_{10} emissions from the houses, and the manure shed.

4.4.2. $PM_{2.5}$

The characteristics of daily mean inlet, house, manure drying tunnel, and the manure shed $PM_{2.5}$ concentrations are listed in Table 30. Table 31 presents the characteristics $PM_{2.5}$ emissions from these locations in three different units. Figure 7 illustrates the variations of daily mean $PM_{2.5}$ emissions from the two houses. Data of all daily mean $PM_{2.5}$ concentrations and emission rates are listed in Tables F5a, F5b, and F5c.

Table 30. Characteristics of $PM_{2.5}$ concentrations.

Variable	Inlet	H8	H9	H8 tunnel	H9 tunnel	Shed
Avg±SD, $\mu g \cdot dsm^{-3}$	45±38	37±88	6±31	78.7±111.9	137.6±414.9	25.3±20.9
Min, $\mu g \cdot dsm^{-3}$	0.96	-37.4	-34.2	-17.3	-474	1.83
Max, $\mu g \cdot dsm^{-3}$	132	246	75.4	316	2150	110
Valid DMs, d	60	25	31	25	39	30

Table 31. Characteristics of $PM_{2.5}$ emissions.

Variable	H8	H9	Shed
Avg±SD, $g \cdot d^{-1}$	-85±677	113±246	48±73
Min, $g \cdot d^{-1}$	-1330	-199	3.23
Max, $g \cdot d^{-1}$	1390	688	321
Valid DMs, d	25	31	30
Avg±SD, $mg \cdot d^{-1} hd^{-1}$	-0.4±2.7	0.5±1	0.1±0.1
Min, $mg \cdot d^{-1} hd^{-1}$	-5.49	-0.797	0.007
Max, $mg \cdot d^{-1} hd^{-1}$	5.57	2.75	0.627

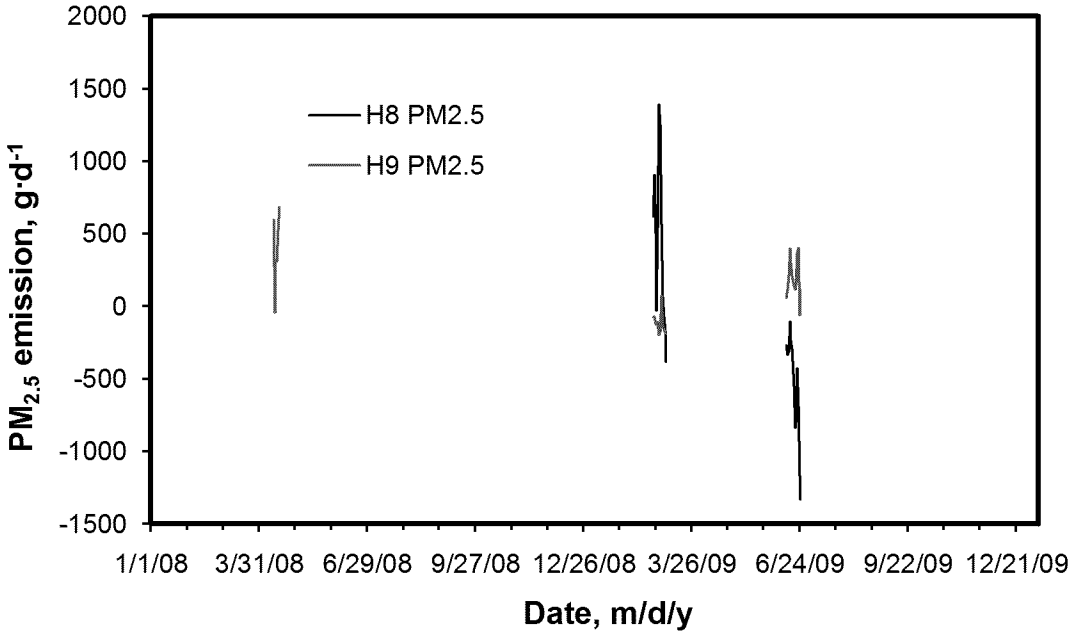

Figure 7. Daily mean $PM_{2.5}$ emissions from the houses, and the manure shed.

4.4.3. TSP

The characteristics of daily mean inlet, house, manure drying tunnel, and the manure shed TSP concentrations are listed in Table 32. Table 33 lists characteristics TSP emissions from these locations in different units. Figure 8 illustrates the variations of daily mean TSP emissions from the two houses. Data of all daily mean TSP concentrations and emission rates are listed in Tables F6a, F6b, and F6c.

Table 32. Characteristics of TSP concentrations.

Variable	Inlet	H8	H9	H8 tunnel	H9 tunnel	Shed
Avg±SD, $\mu g \cdot dsm^{-3}$	350±521	979±665	2608±1772	2077±3250	786±725	373±359
Min, $\mu g \cdot dsm^{-3}$	1.82	83.5	169	28.7	-119	-92.2
Max, $\mu g \cdot dsm^{-3}$	2310	2940	8110	18300	3120	2140
Valid DMs, d	41	59	62	64	70	58

Table 33. Characteristics of TSP emissions.

Variable	H8	H9	Shed
Avg±SD, $g \cdot d^{-1}$	8138±5780	21868±22010	295±404
Min, $g \cdot d^{-1}$	-695	11.9	-212
Max, $g \cdot d^{-1}$	28100	92300	1760
Valid DMs, d	35	34	24
Avg±SD, $mg \cdot d^{-1} hd^{-1}$	33.3±24.1	88.8±90	1.2±1.7
Min, $mg \cdot d^{-1} hd^{-1}$	-2.86	0.05	-0.846
Max, $mg \cdot d^{-1} hd^{-1}$	118	379	7.16

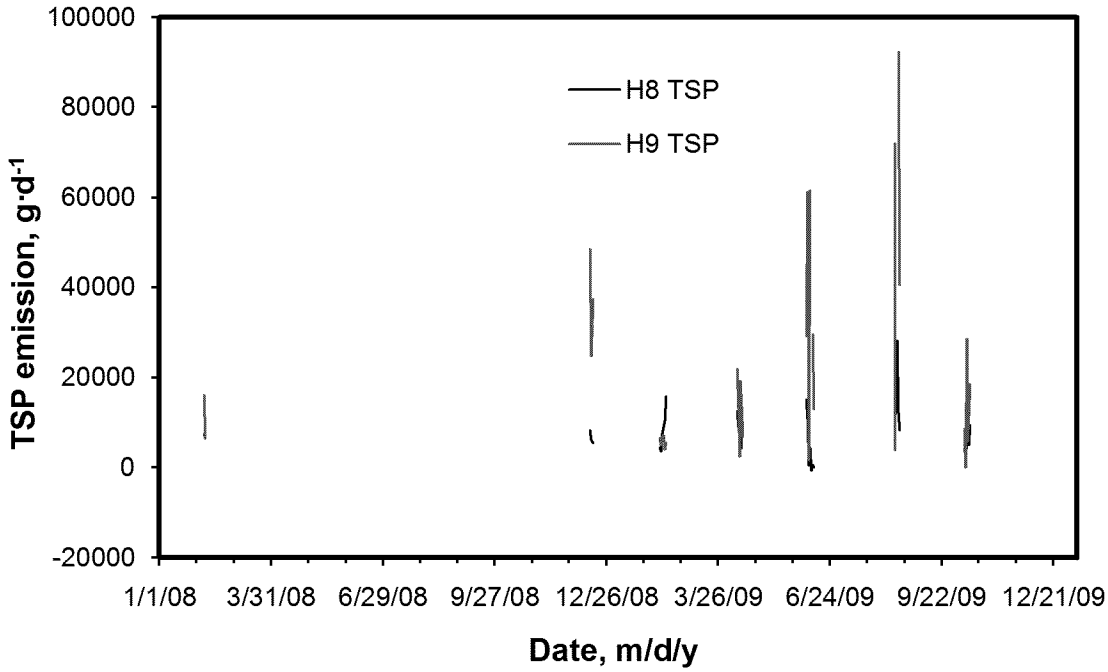

Figure 8. Daily mean TSP emissions from house 8 and 9.

4.5. VOC Concentration and Emissions

The 20 most prevalent VOC detected in the canister samples accounted for 95% of the total quantified mass. The most prevalent compound was iso-propanol, which was 32% of the total mass (Table 34).

Concentrations of total VOC in exhaust air ranged from 0. 62 to 4.72 $mg \cdot m^{-3}$ in B8, 0.67 to 7.26 $mg \cdot m^{-3}$ in B9. The mean total VOC concentration s were 2.05 ± 1.32 in B8, 2.41 ± 2.28 mg•m-3 in B9, respectively.

Total VOC emissions ($ng \cdot s^{-1}$) during each sampling period were determined by multiplying the mean building airflow rate ($m^3 \cdot s^{-1}$) by the total mass ($ng \cdot m^{-3}$) and converting to $kg \cdot d^{-1}$. The VOC emission rates of B8 and B9 ranged from 4.88 to 30.0 and 1.13 to 21.3 $kg \cdot d^{-1}$, respectively. The mean VOC emission rates from B8 and B9 were 12.3±8.23 and 8.13±8.69 $kg \cdot d^{-1}$ or 0.044±0.029 and 0.029±0.031 $g \cdot d^{-1}$ hd^{-1} (Table 35).

4.6. Hydrogen Sulfide Concentration and Emissions

The characteristics of daily mean inlet, house, manure drying tunnel, and the manure shed H_2S concentrations are listed in Table 36. Table 37 lists characteristics H_2S emissions from these locations in different units. Figure 9 illustrates the variations of daily mean H_2S emissions from the two houses. All daily mean H_2S concentrations data are listed in Tables F7, and emission rate data are listed in Tables F7a and F7b.

Table 34. Average concentration of 20 most prevalent VOC.

Compound	Conc., ng m^{-3}	% of total	Cumulative %
iso-Propanol	7.20E+05	36.21%	36.2
Hexane	2.31E+05	11.64%	47.9
Methyl cyclopentane	1.32E+05	6.65%	54.5
Toluene	1.32E+05	6.64%	61.1
n-Propanol	1.30E+05	6.56%	67.7
2-Butanone	8.56E+04	4.31%	72.0
2,3-Butanedione	8.13E+04	4.09%	76.1
Acetaldehyde	6.89E+04	3.47%	79.6
Dimethyl sulfide	6.18E+04	3.11%	82.7
Hexanal	5.80E+04	2.92%	85.6
Dimethyl disulfide	3.89E+04	1.96%	87.6
Phenol	3.31E+04	1.66%	89.2
Acetic acid	2.46E+04	1.24%	90.5
Pentanal	1.75E+04	0.88%	91.3
2-Butanol	1.75E+04	0.88%	92.2
4-Methyl-phenol	1.40E+04	0.71%	92.9
1-Butanol	1.30E+04	0.65%	93.6
4-Ethyl-phenol	1.00E+04	0.50%	94.1
1-Pentanol	8.66E+03	0.44%	94.5
Dimethyl trisulfide	8.05E+03	0.40%	94.9

Table 35. Emission of total VOC for each sampling day.

Date	# canisters		Concentration, mg m^{-3}		Airflow, m^3 s^{-1}		Emission, kg d^{-1}	
	B8	B9	B8	B9	B8	B9	B8	B9
09/24/09	2	2	0.62	0.67	90.6	88.1	4.88	5.12
10/01/09	2	2	0.88	0.78	74.6	30.5	5.70	2.06
10/07/09	2	2	4.37	6.92	73.5	34.0	27.7	20.3
10/19/09	2	2	1.66	3.14	67.5	73.8	9.7	20.0
11/04/09	2	2	1.40	1.30	67.1	14.4	8.1	1.62
11/18/09	2	2	1.35	1.39	66.9	29.4	7.8	3.53
12/09/09	2	2	2.42	0.96	57.3	10.5	12.0	0.87
Mean	2	2	1.82	2.17	71.1	40.1	10.8	7.65

Table 36. Characteristics of H_2S concentrations.

Variable	H8 inlet	H9 inlet	H8	H9	H8 tunnel	H9 tunnel	Shed
Avg±SD, ppb	1±2	3±4	40±21	41±32	43±29	50±46	34±31
Min, ppb	-6	-5	6	0	1	-5	0
Max, ppb	10	35	123	211	235	259	201
Valid DMs, d	707	704	679	679	675	673	667

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Table 37. Characteristics of H_2S emissions.

Variable	H8	H9	Shed
Avg±SD, $g \cdot d^{-1}$	489±241	469±265	35±48
Min, $g \cdot d^{-1}$	41.2	-37.2	-0.932
Max, $g \cdot d^{-1}$	2090	1740	483
Valid data day, n	634	645	534
Avg±SD, $mg \cdot d^{-1} hd^{-1}$	1.9±0.9	2±1	0.1±0.1
Min, $mg \cdot d^{-1} hd^{-1}$	0.157	-0.146	-0.001
Max, $mg \cdot d^{-1} hd^{-1}$	8.04	6.98	0.958

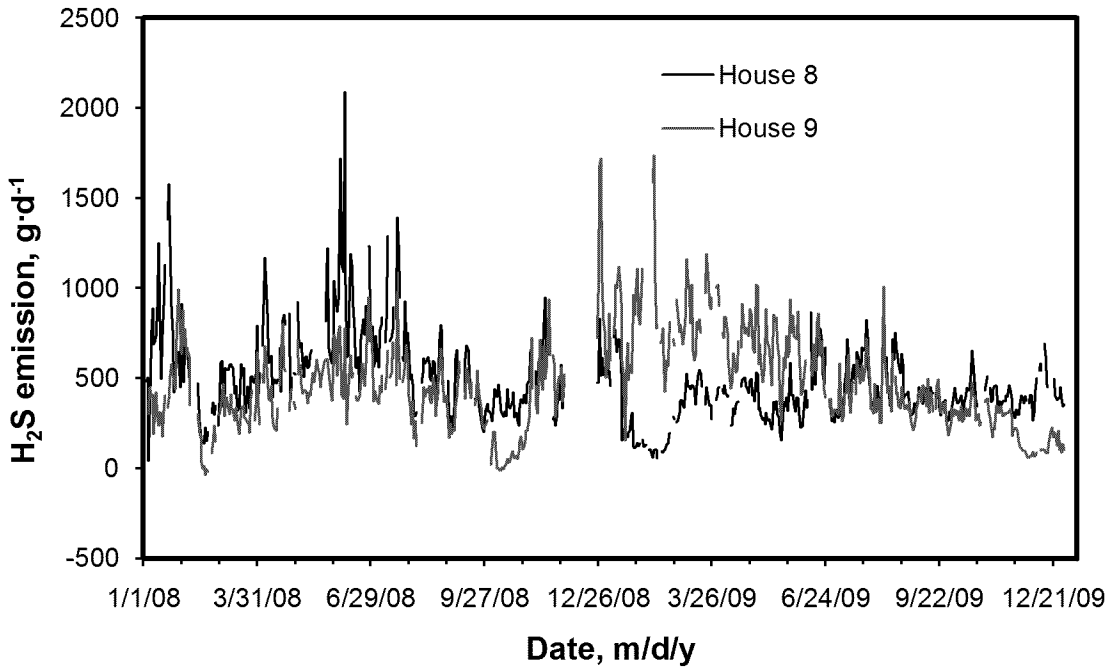

Figure 9. Daily mean H_2S emissions from houses 8 and 9.

4.7. Ammonia Concentration and Emissions

The characteristics of daily mean inlet, house, manure drying tunnel, and the manure shed H_2S concentrations are listed in Table 38. Table 39 lists characteristics H_2S emissions from these locations in different units. Figure 10 illustrates the variations of daily mean H_2S emissions from the two houses. All daily mean H_2S concentrations data are listed in Tables F8, and emission rate data are listed in Tables F8a and F8b.

Table 38. Characteristics of NH_3 concentrations.

Variable	H8 inlet	H9 inlet	H8	H9	H8 tunnel	H9 tunnel	Shed
Avg±SD, ppm	0.6±1.7	0.8±1.4	13.3±9.1	12.9±10.5	24.8±21.1	27.3±32.4	8.1±6
Min, ppm	-37.4	-1.73	1.11	0.23	1.89	0.36	0.09
Max, ppm	7.49	9.15	61.3	57.2	127	204	44.5
Valid DMs, d	692	689	668	667	665	663	656

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Table 39. Characteristics of NH_3 emissions.

Variable	H8	H9	Shed
Avg±SD, $kg \cdot d^{-1}$	70.6±36.8	66.5±42.2	4.6±6
Min, $kg \cdot d^{-1}$	6.69	0.413	0.138
Max, $kg \cdot d^{-1}$	263	357	86.3
Valid data day, n	624	629	518
Avg±SD, $g \cdot d^{-1} hd^{-1}$	0.282±0.145	0.277±0.165	0.01±0.012
Min, $g \cdot d^{-1} hd^{-1}$	0.026	0.020	0.000
Max, $g \cdot d^{-1} hd^{-1}$	1.040	1.430	0.171

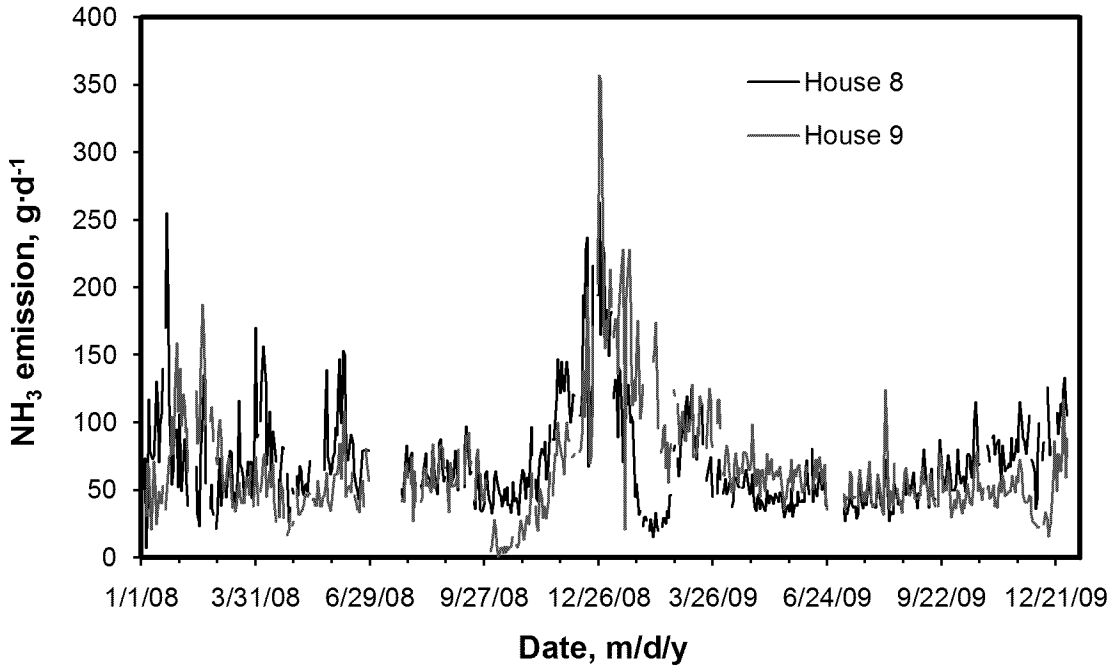

Figure 10. Daily mean NH_3 emissions from houses 8 and 9.

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 1/1/08 to 12/31/09, a total of 730 d (Table 40). The number of daily means of NH_3 and H_2S emissions was reduced by the failures and extended repair period of the gas analyzers. The quantity of PM emissions data was reduced by more frequent TEOM failures and repairs.

Table 40. House emissions data completeness during the 730 d of monitoring.

Location	Days with >75% valid house emission data				
	NH_3	H_2S	PM_{10}	$PM_{2.5}$	TSP
H8	624	634	346	25	35
H9	629	645	361	31	34
Manure shed	518	534	307	30	24

4.9. Reconciliation with DQO's

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 H8 and H9 were 129±29 $dsm^3 s^{-1}$ and 127±33 $dsm^3 s^{-1}$, respectively. An average of 13.6 fans operated in all rooms at which condition the airflow measurement uncertainty was 17%, 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 14). The bias and precision of NH_3 measurements were -0.1% and 5.7%, 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 16). The bias and precision of H_2S measurements were -0.1% and 0.7%, respectively.

Based on these measurement errors calculated for concentrations and airflows, the uncertainties of NH_3 and H_2S emissions from H8 and H9 were 20.7 and 17.3%, respectively.

4.9.3. PM Emissions

The precision of PM_{10}, TSP and $PM_{2.5}$ concentration measurements were 6.7, 7.1, and 6.0% based on collocation tests of the three TEOMs in exhaust air. The relative biases of the TEOMs were 3.3 and 0.9% for H8 and H9. The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from H8 were 22.1, 22.6 and 22.1%, respectively. The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from H9 were 21.9, 22.6 and 21.9%, respectively (Tables 18-22).

5. SUMMARY

The emissions of NH_3, H_2S, PM_{10}, TSP, $PM_{2.5}$ and VOC from two 280,000-bird manure-belt layer houses (houses 8 and 9) at a 10-house layer farm in Indiana were measured during a two-year monitoring study. The buildings were mechanically ventilated with single-speed and variable-speed fans. The actual numbers of hens in each house were approximately 250,000 although the house capacities were 280,000 hens.

The overall average emission rates from house 8 were 70.6±36.8 $kg \cdot d^{-1}$ of NH_3, 489±241 $g \cdot d^{-1}$ of H_2S, 2209±4440 $g \cdot d^{-1}$ of PM_{10}, 85.2±677 $g \cdot d^{-1}$ of $PM_{2.5}$, 8138±5780 $g \cdot d^{-1}$ of TSP, and 12.3 $kg \cdot d^{-1}$ of total VOC. The overall average emission rates from house 9 were 66.5±42.2 $kg \cdot d^{-1}$ of NH_3, 469±265 $g \cdot d^{-1}$ of H_2S, 6075±8225 $g \cdot d^{-1}$ of PM_{10}, 113±246 $g \cdot d^{-1}$ of $PM_{2.5}$, 21,868±22,009 $g \cdot d^{-1}$ of TSP, and 8.13 $kg \cdot d^{-1}$ of total VOC. The overall average emission rates from the manure shed was 4.6±6.0 $kg \cdot d^{-1}$ of NH_3, 35±48 $g \cdot d^{-1}$ of H_2S, 134±293 $g \cdot d^{-1}$ of PM_{10}, 48.3±73.1 $g \cdot d^{-1}$ of $PM_{2.5}$, and 295±404 $g \cdot d^{-1}$ of TSP.

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7. DEFINITIONS AND ACRONYMS

AirDAC	Air Data Acquisition and Control – computer program
ADM	Average daily mean
H8, H9	House 8, House 9
BESS	Bioenvironmental and Structural Systems lab at University of Illinois
CAPECAB	Calculations of Air Pollutant Emissions from Confined Animal Buildings
CO_2	Carbon dioxide
DM	Daily mean
ΔP	Differential pressure
FANS	Fan Airflow Numeration System
GC-MS	Gas chromatograph mass spectrometer
GSL	Gas sampling location(s)
GSS	Gas sampling system
H_2S	Hydrogen sulfide
MDL	Minimum detection limit
MPC	Multipoint calibration
MS	Manure shed
n	Number or count
NAEMS	National Air Emissions Monitoring Study
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
SD	Standard deviation
T_{dew}	Dew point temperature
TDS	Thermal desorption system

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TEOM	Tapered element oscillating microbalance
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	Sensor location	Monitoring/control location	Range/target	DAC item
1	Date & time	---				---
2	Smpl loc#	---				---
3	Cal gas #	Environics	Rack	Calibration gases	0-7	---
4	Cal gas, ppm	Environics	Rack	Calibration gases	From 0	---
5	NH3, ppm	Innova	Rack	12 GSLs	From 0.2	
6	CO2, ppm	Innova	Rack	12 GSLs	From 3.4	
10	WV, Tdew	Innova	Rack	12 GSLs	N/A	
11	H2S, ppb	H2S analyzer	Rack	12 GSLs	1 - 800	FP-AI-112-1
12	SO2, ppb	H2S analyzer	Rack	12 GSLs	1 - 800	FP-AI-112-1
14	Smpl P, Pa	Setra 209 P sensor	GSS	GSS	0 - 14.7 psiv	FP-AI-112-1
15	Smpl Q, L/m	Mass flow	GSS	GSS	0 - 10	FP-AI-112-1
16	Smpl RH, %	Humitter 50Y	GSS	GSS	0 - 100	FP-AI-112-1
17	Smpl T, ºC	Humitter 50Y	GSS	GSS	-40 to 60	FP-AI-112-1
18	Smpl dir, %t	Flow direction sensor	GSS	GSS	0.065 - 0.065 V	FP-AI-112-1
19	GSS T, ºC	AD 592D T sensor	GSS	GSS	0 - 70	FP-AI-112-1
20	8SF33PM, µg/m3	TEOM 1	B8F31S	B8 S Fan 33	-1000 - 8000	FP-AI-112-1
21	8SF33 fltr, %	TEOM 1	B8F31S	B8 S Fan 33	0 - 140	FP-AI-112-1
22	8SBtPM, µg/m3	TEOM 1	B8Sbelt	B8 S Drying belt exhaust	-1000 - 8000	FP-AI-112-1
23	8SBt fltr, %	TEOM 2	B8Sbelt	B8 S Drying belt exhaust	0 - 140	FP-AI-112-1
24	OFIS P, atm	TEOM 2	B9F33S	B9 S Fan 33	0.8 - 1.3	FP-AI-112-1
25	9SF33PM, µg/m3	TEOM 3	B9F33S	B9 S Fan 33	-1000 - 9000	FP-AI-112-1
26	9SF33 fltr, %	TEOM 3	B9F33S	B9 S Fan 33	0 - 140	FP-AI-112-1
27	9SBtPM, µg/m3	TEOM 4	B9Sbelt	B9 S Drying belt exhaust	-1000 - 9000	FP-AI-112-2
28	9SBt fltr, %	TEOM 4	B9Sbelt	B9 S Drying belt exhaust	0 - 140	FP-AI-112-2
29	Shed PM, µg/m3	Beta Gauge	Amb	Outside B3 S side, W end inlet	0 - 1000	FP-AI-112-2
33	8NBtF ΔP, Pa	Setra 260 ΔP sensor	B8NW	B8 across N wall belt fans	-100 to 100	FP-AI-112-2
34	8N ΔP, Pa	Setra 260 ΔP sensor	B8Nbelt	B8 across N wall fans	-100 to 100	FP-AI-112-2
35	8S ΔP, Pa	Setra 260 ΔP sensor	B8SW	B8 across S wall fans	-100 to 100	FP-AI-112-2
36	8SBtF ΔP, Pa	Setra 260 ΔP sensor	B8Sbelt	B8 across S belt fans	-100 to 100	FP-AI-112-2
37	8E ΔP, Pa	Setra 260 ΔP sensor	B8E	B8 across E wall	-100 to 100	FP-AI-112-2

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Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
38	9N ΔP, Pa	Setra 260 ΔP sensor	B9NW	B9 across N wall \belt fans	-100 to 100	FP-AI-112-2
39	9NBtF ΔP, Pa	Setra 260 ΔP sensor	B9Nbelt	B9 across N wall fans.	-100 to 100	FP-AI-112-2
40	9S ΔP, Pa	Setra 260 ΔP sensor	B9SW	B9 across S wall fans	-100 to 100	FP-AI-112-2
41	9SBtF ΔP, Pa	Setra 260 ΔP sensor	B9Sbelt	B9 across S belt fans	-100 to 100	FP-AI-112-2
42	9E ΔP, Pa	Setra 260 ΔP sensor	B9E	B9 across E wall	-100 to 100	FP-AI-112-2
43	OFIS ΔP, Pa	Setra 267 P sensor	OFIS	Inside and outside of OFIS	-25 to 25	FP-AI-112-3
44	OFIS HVAC	Setra 267 P sensor	OFIS	HVAC OFIS	-100 to 100	FP-AI-112-3
45	8SBt RH, %	NOVUS RHT- 1	B8Sbelt	B8 S Drying belt exhaust	0 - 100	FP-AI-112-3
46	8SBt T, ºC	NOVUS RHT- 1	B8Sbelt	B8 S Drying belt exhaust	0 - 100	FP-AI-112-3
47	8SF33 RH, %	NOVUS RHT- 2	B8 S fan 33		0 - 100	FP-AI-112-3
48	8SF33 T, ºC	NOVUS RHT- 2	B8 S fan 33		0 - 100	FP-AI-112-3
49	9SBt RH, %	NOVUS RHT- 3	B9Sbelt	B9 S drying belt TEOM	0 - 100	FP-AI-112-3
50	9SBt T, ºC	NOVUS RHT- 3	B9Sbelt	B9 S Drying belt exhaust	0 - 100	FP-AI-112-3
51	9SF33 RH, %	NOVUS RHT- 4	B9 S fan 33	B9 S fan 33	0 - 100	FP-AI-112-3
52	9SF33 T, ºC	NOVUS RHT- 4	B9 S fan 33	B9 S fan 33	0 - 100	FP-AI-112-3
53	Shed RH, %	NOVUS RHT- 5		Manure shed E wall	0 - 100	FP-AI-112-3
54	Shed T, ºC	NOVUS RHT- 5		Manure shed E wall	0 - 100	FP-AI-112-3
55	8SF33 ane, V	Anemometer	B8 S fan 33		-0.5 - 0.5	FP-AI-112-3
56	9SF33 ane, V	Anemometer	B9 S fan 33		-0.5 - 0.5	FP-AI-112-3
57	8S Act , V	Activity sensor	B8	B8 S wall, top of F33	0 to 2	FP-AI-112-3
58	8E dr Act, V	Activity sensor	B8	B8 E door	0 to 2	FP-AI-112-3
59	9S Act , V	Activity sensor	B9	B9 S wall, top of F33	0 to 2	FP-AI-112-4
60	9E dr Act, V	Activity sensor	B9	B9 E door	0 to 2	FP-AI-112-4
61	Sd E Act, V	Activity sensor	Shed	Shed E door	0 to 2	FP-AI-112-4
62	Sd W Act, V	Activity sensor	Shed	Shed W door	0 to 2	FP-AI-112-4
63	OFIS Act , V	Activity sensor	OFIS	OFIS	0 to 2	FP-AI-112-4
64	Sd NE dr, m	Displacement sensor	Shed	NE door	0 - 4.06	FP-AI-112-4
65	Sd SE dr, m	Displacement sensor	Shed	SE door	0 - 4.06	FP-AI-112-4
66	Sd NW dr, m	Displacement sensor	Shed	NW door	0 - 4.06	FP-AI-112-4
67	Sd SW dr, m	Displacement sensor	Shed	SW door	0 - 4.06	FP-AI-112-4
75	Sonic NE, m/s	Young 85000 sonic	Shed	Manure shed NE	0 - 100	FP-AI-112-5
76	Sonic NE, deg	Young 85000 sonic	Shed	Manure shed NE	0 - 360	FP-AI-112-5
77	Sonic E, m/s	Young 85000 sonic	Shed	Manure shed E	0 - 100	FP-AI-112-5
78	Sonic E, deg	Young 85000 sonic	Shed	Manure shed E	0 - 360	FP-AI-112-5

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Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
79	Sonic SE, m/s	Young 85000 sonic	Shed	Manure shed SE	0 - 100	FP-AI-112-5
80	Sonic SE, deg	Young 85000 sonic	Shed	Manure shed SE	0 - 360	FP-AI-112-5
81	Sonic CN, m/s	Young 85000 sonic	Shed	Manure shed ridge N	0 - 100	FP-AI-112-5
82	Sonic CN, deg	Young 85000 sonic	Shed	Manure shed ridge N	0 - 360	FP-AI-112-5
83	Sonic CS, m/s	Young 85000 sonic	Shed	Manure shed ridge S	0 - 100	FP-AI-112-5
84	Sonic CS, deg	Young 85000 sonic	Shed	Manure shed ridge S	0 - 360	FP-AI-112-5
91	8Inlet T, ºC	TC T type	B8 air inlet	B8 air inlet	-270 to 390	FP-TC-120-1
92	8NF21 T, ºC	TC T type	B8N fan 21	B8N fan 21	-270 to 390	FP-TC-120-1
93	8NF28 T, ºC	TC T type	B8N fan 28	B8N fan 28	-270 to 390	FP-TC-120-1
94	8NF33 T, ºC	TC T type	B8N fan 33	B8N fan 33	-270 to 390	FP-TC-120-1
95	8NBt T, ºC	TC T type	B8N belt	B8N belt outlet	-270 to 390	FP-TC-120-1
96	8SF21 T, ºC	TC T type	B8S fan 21	B8S fan 21	-270 to 390	FP-TC-120-1
97	8SF28 T, ºC	TC T type	B8S fan 28	B8S fan 28	-270 to 390	FP-TC-120-1
98	8SF33 T, ºC	TC T type	B8S fan 33	B8S fan 33	-270 to 390	FP-TC-120-1
99	8Rwy T, ºC	TC T type	B8 rwy	B8 rwy T outside bundle	-270 to 390	FP-TC-120-2
100	8Rwy HT, ºC	TC T type	B8 rwy	B8 rwy T center bundle	-270 to 390	FP-TC-120-2
102	9Inlet T, ºC	TC T type	B9 air inlet	B9 air inlet	-270 to 390	FP-TC-120-2
103	9NF21 T, ºC	TC T type	B9N fan 21	B9N fan 21	-270 to 390	FP-TC-120-2
104	9NF28 T, ºC	TC T type	B9N fan 29	B9N fan 29	-270 to 390	FP-TC-120-2
105	9NF33 T, ºC	TC T type	B9N fan 33	B9N fan 33	-270 to 390	FP-TC-120-2
106	9NBt T, ºC	TC T type	B9N belt	B9N belt outlet	-270 to 390	FP-TC-120-2
107	9SF21 T, ºC	TC T type	B9S fan 21	B9S fan 21	-270 to 390	FP-TC-120-3
108	9SF28 T, ºC	TC T type	B9S fan 29	B9S fan 29	-270 to 390	FP-TC-120-3
109	9SF33 T, ºC	TC T type	B9S fan 33	B9S fan 33	-270 to 390	FP-TC-120-3
110	9Rwy T, ºC	TC T type	B9 rwy	B9 rwy T outside bundle	-270 to 390	FP-TC-120-3
111	9Rwy HT, ºC	TC T type	B9 rwy	B9 rwy T center bundle	-270 to 390	FP-TC-120-3
112	9S tube T, ºC	TC T type	B9S wall	B9 S wall tubing bundle	-270 to 390	FP-TC-120-3
113	9SBt21 T, ºC	TC T type	B9belt F 21	B9 S belt exhaust at fan 21	-270 to 390	FP-TC-120-3
114	9SBt28 T, ºC	TC T type	B9belt F 28	B9 S belt exhaust at fan 28	-270 to 390	FP-TC-120-3
115	Sd edge, ºC	TC T type	OFIC	Shed	-270 to 390	USB-TC
116	Beta T, ºC	TC T type	Beta Gauge box	In east wall of manure shed	-270 to 390	USB-TC
117	HVAC T, ºC	TC T type	OFIS AC	Wall A/C exhaust	-270 to 390	USB-TC
118	Cmpt, ºC	TC T type	OFIC	Pump compartment	-270 to 390	USB-TC
119	OFIS T, ºC	TC T type	OFIS	DAC panel	-270 to 390	USB-TC

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Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
123	8NF1, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
124	8NF10, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
125	8NF21, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
126	8NF25, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
127	8NF28, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
128	8NF31, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
129	8NF33, rpm	Cherry speed sensor	House 8 N side	Fan motor support and pulley	0 to 5000	USB-4303-1
130	8SF1, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-1
131	8SF10, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-1
132	8SF21, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-1
133	8SF25, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-2
134	8SF28, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-2
135	8SF31, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-2
136	8SF33, rpm	Cherry speed sensor	House 8 S side	Fan motor support and pulley	0 to 5000	USB-4303-2
137	9NF1, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
138	9NF10, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
139	9NF21, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
140	9NF25, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
141	9NF28, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
142	9NF31, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-2
143	9NF33, rpm	Cherry speed sensor	House 9 N side	Fan motor support and pulley	0 to 5000	USB-4303-3
144	9SF1, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
145	9SF10, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
146	9SF21, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
147	9SF25, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
148	9SF28, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
149	9SF31, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
150	9SF33, rpm	Cherry speed sensor	House 9 S side	Fan motor support and pulley	0 to 5000	USB-4303-3
153	8NF1, %t	Vibration sensor	B8 N fan 1	Fan cone	0 - 100	DIO96H-1
154	8NF2, %t	Vibration sensor	B8 N fan 2	Fan cone	0 - 100	DIO96H-1
155	8NF3, %t	Vibration sensor	B8 N fan 3	Fan cone	0 - 100	DIO96H-1
156	8NF4, %t	Vibration sensor	B8 N fan 4	Fan cone	0 - 100	DIO96H-1
157	8NF5, %t	Vibration sensor	B8 N fan 5	Fan cone	0 - 100	DIO96H-1
158	8NF6, %t	Vibration sensor	B8 N fan 6	Fan cone	0 - 100	DIO96H-1

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
159	8NF7, %t	Vibration sensor	B8 N fan 7	Fan cone	0 - 100	DIO96H-1
160	8NF8, %t	Vibration sensor	B8 N fan 8	Fan cone	0 - 100	DIO96H-1
161	8NF9, %t	Vibration sensor	B8 N fan 9	Fan cone	0 - 100	DIO96H-1
162	8NF10, %t	Vibration sensor	B8 N fan 10	Fan cone	0 - 100	DIO96H-1
163	8NF11, %t	Vibration sensor	B8 N fan 11	Fan cone	0 - 100	DIO96H-1
164	8NF12, %t	Vibration sensor	B8 N fan 12	Fan cone	0 - 100	DIO96H-1
165	8NF13, %t	Vibration sensor	B8 N fan 13	Fan cone	0 - 100	DIO96H-1
166	8NF14, %t	Vibration sensor	B8 N fan 14	Fan cone	0 - 100	DIO96H-1
167	8NF15, %t	Vibration sensor	B8 N fan 15	Fan cone	0 - 100	DIO96H-1
168	8NF16, %t	Vibration sensor	B8 N fan 16	Fan cone	0 - 100	DIO96H-1
169	8NF17, %t	Vibration sensor	B8 N fan 17	Fan cone	0 - 100	DIO96H-1
170	8NF18, %t	Vibration sensor	B8 N fan 18	Fan cone	0 - 100	DIO96H-1
171	8NF19, %t	Vibration sensor	B8 N fan 19	Fan cone	0 - 100	DIO96H-1
172	8NF20, %t	Vibration sensor	B8 N fan 20	Fan cone	0 - 100	DIO96H-1
173	8NF20T, %t	Vibration sensor	B8 N fan 20T	Fan cone	0 - 100	DIO96H-1
174	8NF20B, %t	Vibration sensor	B8 N fan 20B	Fan cone	0 - 100	DIO96H-1
175	8NF21, %t	Vibration sensor	B8 N fan 21	Fan cone	0 - 100	DIO96H-1
176	8NF22, %t	Vibration sensor	B8 N fan 22	Fan cone	0 - 100	DIO96H-1
177	8NF23, %t	Vibration sensor	B8 N fan 23	Fan cone	0 - 100	DIO96H-1
178	8NF24, %t	Vibration sensor	B8 N fan 24	Fan cone	0 - 100	DIO96H-1
180	8NF26, %t	Vibration sensor	B8 N fan 26	Fan cone	0 - 100	DIO96H-1
181	8NF27, %t	Vibration sensor	B8 N fan 27	Fan cone	0 - 100	DIO96H-1
183	8NF29, %t	Vibration sensor	B8 N fan 29	Fan cone	0 - 100	DIO96H-1
184	8NF30, %t	Vibration sensor	B8 N fan 30	Fan cone	0 - 100	DIO96H-1
186	8NF32, %t	Vibration sensor	B8 N fan 32	Fan cone	0 - 100	DIO96H-1
187	8NF33, %t	Vibration sensor	B8 N fan 33	Fan cone	0 - 100	DIO96H-1
188	8NF33T, %t	Vibration sensor	B8 N fan 33T	Fan cone	0 - 100	DIO96H-1
189	8NF33B, %t	Vibration sensor	B8 N fan 33B	Fan cone	0 - 100	DIO96H-1
190	8NF34, %t	Vibration sensor	B8 N fan 34	Fan cone	0 - 100	DIO96H-1
191	8NF35, %t	Vibration sensor	B8 N fan 35	Fan cone	0 - 100	DIO96H-1
192	8NF36, %t	Vibration sensor	B8 N fan 36	Fan cone	0 - 100	DIO96H-1
193	8NF37, %t	Vibration sensor	B8 N fan 37	Fan cone	0 - 100	DIO96H-1
194	8NF38, %t	Vibration sensor	B8 N fan 38	Fan cone	0 - 100	DIO96H-1
195	8NF39, %t	Vibration sensor	B8 N fan 39	Fan cone	0 - 100	DIO96H-1

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
196	8NF40, %t	Vibration sensor	B8 N fan 40	Fan cone	0 - 100	DIO96H-1
197	8NF41, %t	Vibration sensor	B8 N fan 41	Fan cone	0 - 100	DIO96H-1
198	8NF42, %t	Vibration sensor	B8 N fan 42	Fan cone	0 - 100	DIO96H-1
199	8NF43, %t	Vibration sensor	B8 N fan 43	Fan cone	0 - 100	DIO96H-1
200	8NF44, %t	Vibration sensor	B8 N fan 44	Fan cone	0 - 100	DIO96H-1
202	8SF2, %t	Vibration sensor	B8 S fan 2	Fan cone	0 - 100	DIO96H-1
203	8SF3, %t	Vibration sensor	B8 S fan 3	Fan cone	0 - 100	DIO96H-1
204	8SF4, %t	Vibration sensor	B8 S fan 4	Fan cone	0 - 100	DIO96H-1
205	8SF5, %t	Vibration sensor	B8 S fan 5	Fan cone	0 - 100	DIO96H-1
206	8SF6, %t	Vibration sensor	B8 S fan 6	Fan cone	0 - 100	DIO96H-1
207	8SF7, %t	Vibration sensor	B8 S fan 7	Fan cone	0 - 100	DIO96H-1
208	8SF8, %t	Vibration sensor	B8 S fan 8	Fan cone	0 - 100	DIO96H-1
209	8SF9, %t	Vibration sensor	B8 S fan 9	Fan cone	0 - 100	DIO96H-1
210	8SF10, %t	Vibration sensor	B8 S fan 10	Fan cone	0 - 100	DIO96H-1
211	8SF11, %t	Vibration sensor	B8 S fan 11	Fan cone	0 - 100	DIO96H-1
212	8SF12, %t	Vibration sensor	B8 S fan 12	Fan cone	0 - 100	DIO96H-1
213	8SF13, %t	Vibration sensor	B8 S fan 13	Fan cone	0 - 100	DIO96H-1
214	8SF14, %t	Vibration sensor	B8 S fan 14	Fan cone	0 - 100	DIO96H-1
215	8SF15, %t	Vibration sensor	B8 S fan 15	Fan cone	0 - 100	DIO96H-1
216	8SF16, %t	Vibration sensor	B8 S fan 16	Fan cone	0 - 100	DIO96H-1
217	8SF17, %t	Vibration sensor	B8 S fan 17	Fan cone	0 - 100	DIO96H-1
218	8SF18, %t	Vibration sensor	B8 S fan 18	Fan cone	0 - 100	DIO96H-1
219	8SF19, %t	Vibration sensor	B8 S fan 19	Fan cone	0 - 100	DIO96H-1
220	8SF20, %t	Vibration sensor	B8 S fan 20	Fan cone	0 - 100	DIO96H-1
221	8SF20T, %t	Vibration sensor	B8 S fan 20T	Fan cone	0 - 100	DIO96H-1
222	8SF20B, %t	Vibration sensor	B8 S fan 20B	Fan cone	0 - 100	DIO96H-1
224	8SF22, %t	Vibration sensor	B8 S fan 22	Fan cone	0 - 100	DIO96H-1
225	8SF23, %t	Vibration sensor	B8 S fan 23	Fan cone	0 - 100	DIO96H-1
226	8SF24, %t	Vibration sensor	B8 S fan 24	Fan cone	0 - 100	DIO96H-1
228	8SF26, %t	Vibration sensor	B8 S fan 26	Fan cone	0 - 100	DIO96H-1
229	8SF27, %t	Vibration sensor	B8 S fan 27	Fan cone	0 - 100	DIO96H-1
231	8SF29, %t	Vibration sensor	B8 S fan 29	Fan cone	0 - 100	DIO96H-1
232	8SF30, %t	Vibration sensor	B8 S fan 30	Fan cone	0 - 100	DIO96H-1
234	8SF32, %t	Vibration sensor	B8 S fan 32	Fan cone	0 - 100	DIO96H-1

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
235	8SF33, %t	Vibration sensor	B8 S fan 33	Fan cone	0 - 100	DIO96H-1
236	8SF33T, %t	Vibration sensor	B8 S fan 33T	Fan cone	0 - 100	DIO96H-1
237	8SF33B, %t	Vibration sensor	B8 S fan 33B	Fan cone	0 - 100	DIO96H-1
238	8SF34, %t	Vibration sensor	B8 S fan 34	Fan cone	0 - 100	DIO96H-1
239	8SF35, %t	Vibration sensor	B8 S fan 35	Fan cone	0 - 100	DIO96H-1
240	8SF36, %t	Vibration sensor	B8 S fan 36	Fan cone	0 - 100	DIO96H-1
241	8SF37, %t	Vibration sensor	B8 S fan 37	Fan cone	0 - 100	DIO96H-1
242	8SF38, %t	Vibration sensor	B8 S fan 38	Fan cone	0 - 100	DIO96H-1
243	8SF39, %t	Vibration sensor	B8 S fan 39	Fan cone	0 - 100	DIO96H-1
244	8SF40, %t	Vibration sensor	B8 S fan 40	Fan cone	0 - 100	DIO96H-1
245	8SF41, %t	Vibration sensor	B8 S fan 41	Fan cone	0 - 100	DIO96H-1
246	8SF42, %t	Vibration sensor	B8 S fan 42	Fan cone	0 - 100	DIO96H-1
247	8SF43, %t	Vibration sensor	B8 S fan 43	Fan cone	0 - 100	DIO96H-1
248	8SF44, %t	Vibration sensor	B8 S fan 44	Fan cone	0 - 100	DIO96H-1
250	9NF2, %t	Vibration sensor	B9 N fan 2	Fan cone	0 - 100	DIO96H-2
251	9NF3, %t	Vibration sensor	B9 N fan 3	Fan cone	0 - 100	DIO96H-2
252	9NF4, %t	Vibration sensor	B9 N fan 4	Fan cone	0 - 100	DIO96H-2
253	9NF5, %t	Vibration sensor	B9 N fan 5	Fan cone	0 - 100	DIO96H-2
254	9NF6, %t	Vibration sensor	B9 N fan 6	Fan cone	0 - 100	DIO96H-2
255	9NF7, %t	Vibration sensor	B9 N fan 7	Fan cone	0 - 100	DIO96H-2
256	9NF8, %t	Vibration sensor	B9 N fan 8	Fan cone	0 - 100	DIO96H-2
257	9NF9, %t	Vibration sensor	B9 N fan 9	Fan cone	0 - 100	DIO96H-2
258	9NF10, %t	Vibration sensor	B9 N fan 10	Fan cone	0 - 100	DIO96H-2
259	9NF11, %t	Vibration sensor	B9 N fan 11	Fan cone	0 - 100	DIO96H-2
260	9NF12, %t	Vibration sensor	B9 N fan 12	Fan cone	0 - 100	DIO96H-2
261	9NF13, %t	Vibration sensor	B9 N fan 13	Fan cone	0 - 100	DIO96H-2
262	9NF14, %t	Vibration sensor	B9 N fan 14	Fan cone	0 - 100	DIO96H-2
263	9NF15, %t	Vibration sensor	B9 N fan 15	Fan cone	0 - 100	DIO96H-2
264	9NF16, %t	Vibration sensor	B9 N fan 16	Fan cone	0 - 100	DIO96H-2
265	9NF17, %t	Vibration sensor	B9 N fan 17	Fan cone	0 - 100	DIO96H-2
266	9NF18, %t	Vibration sensor	B9 N fan 18	Fan cone	0 - 100	DIO96H-2
267	9NF19, %t	Vibration sensor	B9 N fan 19	Fan cone	0 - 100	DIO96H-2
268	9NF20, %t	Vibration sensor	B9 N fan 20	Fan cone	0 - 100	DIO96H-2
269	9NF20T, %t	Vibration sensor	B9 N fan 20T	Fan cone	0 - 100	DIO96H-2

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
270	9NF20B, %t	Vibration sensor	B9 N fan 20B	Fan cone	0 - 100	DIO96H-2
272	9NF22, %t	Vibration sensor	B9 N fan 22	Fan cone	0 - 100	DIO96H-2
273	9NF23, %t	Vibration sensor	B9 N fan 23	Fan cone	0 - 100	DIO96H-2
274	9NF24, %t	Vibration sensor	B9 N fan 24	Fan cone	0 - 100	DIO96H-2
275	9NF25, %t	Vibration sensor	B9 N fan 25	Fan cone	0 - 100	DIO96H-2
276	9NF26, %t	Vibration sensor	B9 N fan 26	Fan cone	0 - 100	DIO96H-2
277	9NF27, %t	Vibration sensor	B9 N fan 27	Fan cone	0 - 100	DIO96H-2
278	9NF28, %t	Vibration sensor	B9 N fan 28	Fan cone	0 - 100	DIO96H-2
279	9NF29, %t	Vibration sensor	B9 N fan 29	Fan cone	0 - 100	DIO96H-2
280	9NF30, %t	Vibration sensor	B9 N fan 30	Fan cone	0 - 100	DIO96H-2
282	9NF32, %t	Vibration sensor	B9 N fan 32	Fan cone	0 - 100	DIO96H-2
283	9NF33, %t	Vibration sensor	B9 N fan 33	Fan cone	0 - 100	DIO96H-2
284	9NF33T, %t	Vibration sensor	B9 N fan 33T	Fan cone	0 - 100	DIO96H-2
285	9NF33B, %t	Vibration sensor	B9 N fan 33B	Fan cone	0 - 100	DIO96H-2
286	9NF34, %t	Vibration sensor	B9 N fan 34	Fan cone	0 - 100	DIO96H-2
287	9NF35, %t	Vibration sensor	B9 N fan 35	Fan cone	0 - 100	DIO96H-2
288	9NF36, %t	Vibration sensor	B9 N fan 36	Fan cone	0 - 100	DIO96H-2
289	9NF37, %t	Vibration sensor	B9 N fan 37	Fan cone	0 - 100	DIO96H-2
290	9NF38, %t	Vibration sensor	B9 N fan 38	Fan cone	0 - 100	DIO96H-2
291	9NF39, %t	Vibration sensor	B9 N fan 39	Fan cone	0 - 100	DIO96H-2
292	9NF40, %t	Vibration sensor	B9 N fan 40	Fan cone	0 - 100	DIO96H-2
293	9NF41, %t	Vibration sensor	B9 N fan 41	Fan cone	0 - 100	DIO96H-2
294	9NF42, %t	Vibration sensor	B9 N fan 42	Fan cone	0 - 100	DIO96H-2
295	9NF43, %t	Vibration sensor	B9 N fan 43	Fan cone	0 - 100	DIO96H-2
296	9NF44, %t	Vibration sensor	B9 N fan 44	Fan cone	0 - 100	DIO96H-2
298	9SF2, %t	Vibration sensor	B9 S fan 2	Fan cone	0 - 100	DIO96H-2
299	9SF3, %t	Vibration sensor	B9 S fan 3	Fan cone	0 - 100	DIO96H-2
300	9SF4, %t	Vibration sensor	B9 S fan 4	Fan cone	0 - 100	DIO96H-2
301	9SF5, %t	Vibration sensor	B9 S fan 5	Fan cone	0 - 100	DIO96H-2
302	9SF6, %t	Vibration sensor	B9 S fan 6	Fan cone	0 - 100	DIO96H-2
303	9SF7, %t	Vibration sensor	B9 S fan 7	Fan cone	0 - 100	DIO96H-2
304	9SF8, %t	Vibration sensor	B9 S fan 8	Fan cone	0 - 100	DIO96H-2
305	9SF9, %t	Vibration sensor	B9 S fan 9	Fan cone	0 - 100	DIO96H-2
306	9SF10, %t	Vibration sensor	B9 S fan 10	Fan cone	0 - 100	DIO96H-2

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
307	9SF11, %t	Vibration sensor	B9 S fan 11	Fan cone	0 - 100	DIO96H-2
308	9SF12, %t	Vibration sensor	B9 S fan 12	Fan cone	0 - 100	DIO96H-2
309	9SF13, %t	Vibration sensor	B9 S fan 13	Fan cone	0 - 100	DIO96H-2
310	9SF14, %t	Vibration sensor	B9 S fan 14	Fan cone	0 - 100	DIO96H-2
311	9SF15, %t	Vibration sensor	B9 S fan 15	Fan cone	0 - 100	DIO96H-2
312	9SF16, %t	Vibration sensor	B9 S fan 16	Fan cone	0 - 100	DIO96H-2
313	9SF17, %t	Vibration sensor	B9 S fan 17	Fan cone	0 - 100	DIO96H-2
314	9SF18, %t	Vibration sensor	B9 S fan 18	Fan cone	0 - 100	DIO96H-2
315	9SF19, %t	Vibration sensor	B9 S fan 19	Fan cone	0 - 100	DIO96H-2
316	9SF20, %t	Vibration sensor	B9 S fan 20	Fan cone	0 - 100	DIO96H-2
317	9SF20T, %t	Vibration sensor	B9 S fan 20T	Fan cone	0 - 100	DIO96H-2
318	9SF20B, %t	Vibration sensor	B9 S fan 20B	Fan cone	0 - 100	DIO96H-2
319	9SF21, %t	Vibration sensor	B9 S fan 21	Fan cone	0 - 100	DIO96H-2
320	9SF22, %t	Vibration sensor	B9 S fan 22	Fan cone	0 - 100	DIO96H-2
321	9SF23, %t	Vibration sensor	B9 S fan 23	Fan cone	0 - 100	DIO96H-2
322	9SF24, %t	Vibration sensor	B9 S fan 24	Fan cone	0 - 100	DIO96H-2
323	9SF25, %t	Vibration sensor	B9 S fan 25	Fan cone	0 - 100	DIO96H-2
324	9SF26, %t	Vibration sensor	B9 S fan 26	Fan cone	0 - 100	DIO96H-2
325	9SF27, %t	Vibration sensor	B9 S fan 27	Fan cone	0 - 100	DIO96H-2
326	9SF28, %t	Vibration sensor	B9 S fan 28	Fan cone	0 - 100	DIO96H-2
327	9SF29, %t	Vibration sensor	B9 S fan 29	Fan cone	0 - 100	DIO96H-2
328	9SF30, %t	Vibration sensor	B9 S fan 30	Fan cone	0 - 100	DIO96H-2
329	9SF31, %t	Vibration sensor	B9 S fan 31	Fan cone	0 - 100	DIO96H-2
330	9SF32, %t	Vibration sensor	B9 S fan 32	Fan cone	0 - 100	DIO96H-2
331	9SF33, %t	Vibration sensor	B9 S fan 33	Fan cone	0 - 100	DIO96H-2
332	9SF33T, %t	Vibration sensor	B9 S fan 33T	Fan cone	0 - 100	DIO96H-2
333	9SF33B, %t	Vibration sensor	B9 S fan 33B	Fan cone	0 - 100	DIO96H-2
334	9SF34, %t	Vibration sensor	B9 S fan 34	Fan cone	0 - 100	DIO96H-2
335	9SF35, %t	Vibration sensor	B9 S fan 35	Fan cone	0 - 100	DIO96H-2
336	9SF36, %t	Vibration sensor	B9 S fan 36	Fan cone	0 - 100	DIO96H-2
337	9SF37, %t	Vibration sensor	B9 S fan 37	Fan cone	0 - 100	DIO96H-2
338	9SF38, %t	Vibration sensor	B9 S fan 38	Fan cone	0 - 100	DIO96H-2
339	9SF39, %t	Vibration sensor	B9 S fan 39	Fan cone	0 - 100	DIO96H-2
340	9SF40, %t	Vibration sensor	B9 S fan 40	Fan cone	0 - 100	DIO96H-2

Col#	Data heading	Instrument/ sensor	Sensor location	Monitoring/control location	Range/target	DAC item
341	9SF41, %t	Vibration sensor	B9 S fan 41	Fan cone	0 - 100	DIO96H-2
342	9SF42, %t	Vibration sensor	B9 S fan 42	Fan cone	0 - 100	DIO96H-2
343	9SF43, %t	Vibration sensor	B9 S fan 43	Fan cone	0 - 100	DIO96H-2
344	9SF44, %t	Vibration sensor	B9 S fan 44	Fan cone	0 - 100	DIO96H-2
345	8N cnvy, %t	Current switch	B8 conveyer	B8 N manure conveyer	0 - 100	MiniLab1008
346	8S cnvy, %t	Current switch	B8 conveyer	B8 S manure conveyer	0 - 100	MiniLab1008
347	9N cnvy, %t	Current switch	B9 conveyer	B9 N manure conveyer	0 - 100	MiniLab1008
348	9S cnvy, %t	Current switch	B9 conveyer	B9 S manure conveyer	0 - 100	MiniLab1008

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APPENDIX A: MAINTENANCE AND CALIBRATION TASKS.

Category	Times completed
Environment Sensing and Other	
Clean RH/T probe	114
Calibration check of RH/T probe	3
Calibration check of thermocouples	2
Performance check of weather station	2
Direction verification of wind indicator	1
Check solar sensor with collocated sensor	1
Clean motion sensors	25
Air Flow Measurement System	
Fan test events	8
Zero check of pressure sensors (ΔP)	4
Multipoint calibration of pressures sensors (ΔP)	1
Drift & accuracy check of anemometer(s)	1
Particulate Matter Measurement System	
Clean TOEM screens	114
Check/clean TEOM inlet head(s)	114
Replace TEOM filters	109
Verify TEOM mass transducer calibration	2
Leak test of TEOM	5
Verify TEOM flow rate & MFC accuracy	5
Change TEOM in-line filters	2
Check/clean Beta Gauge inlet head	114
Check Beta Gauge airflow	3
Validate Beta Gauge mass w/foil set	4
Calibrate Beta Gauge mass & airflow	1
Gas Measurement System	
Leak check of GSS	4
Calibration check of all lines	3
Calibrate GSS pressure and flow sensors	2
Flow calibration/check MFC flow of Environics Dilutor	2
Precision check of Multigas Analyzer	114
Multipoint calibration of Multigas Analyzer	8
Precision check of TEC 450i	110
Multipoint calibration of TEC 450i	5

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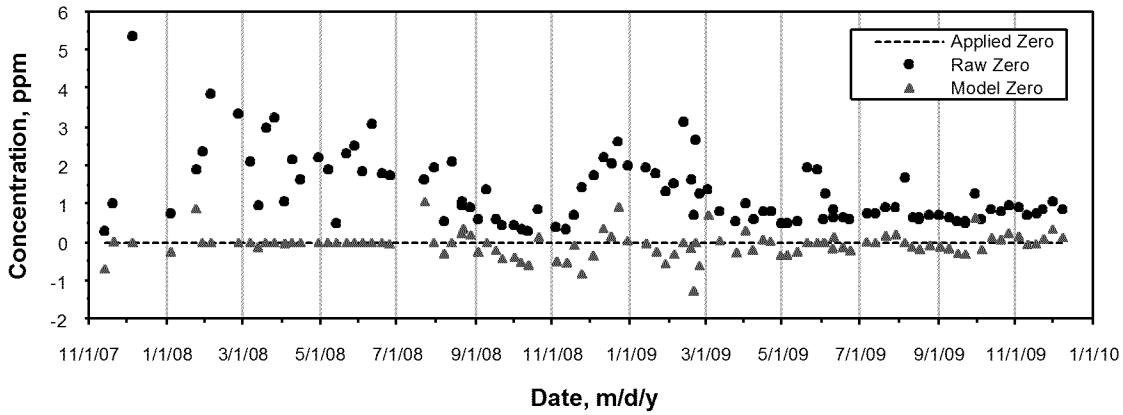
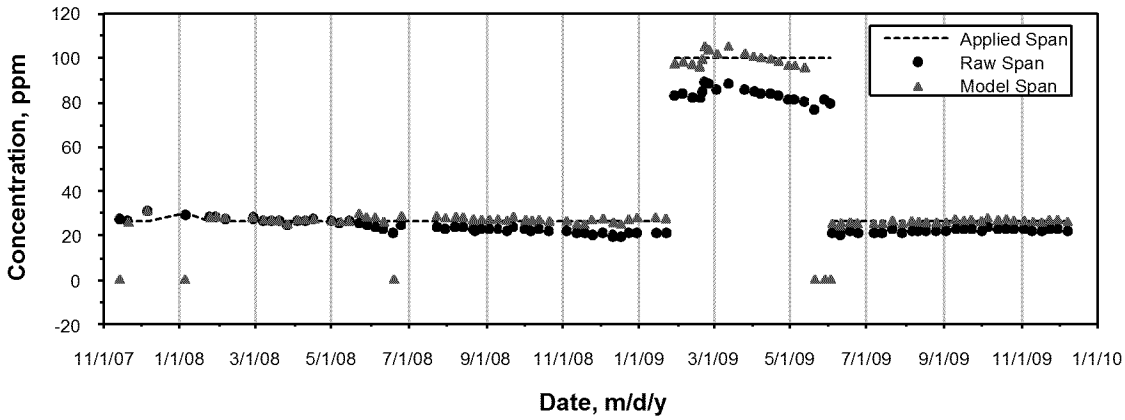
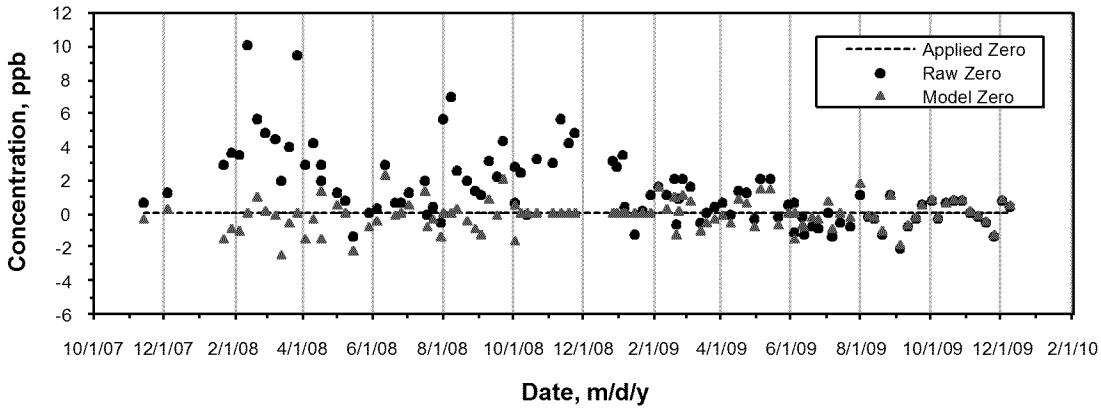
APPENDIX B: GAS ANALYZER CALIBRATIONS.



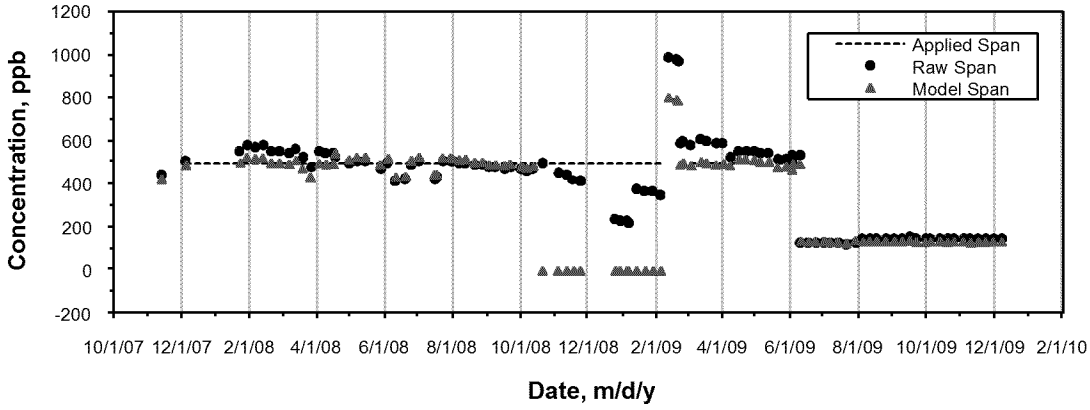
Calibration Data of NH_3 Zero Checks at IN2B Site (INNOVA 1412)



Calibration Data of NH_3 Span Checks at IN2B Site (INNOVA 1412)



Calibration Chart of H_2S Zero Checks at IN2B Site (450i)



Calibration Chart of H_2S Span Checks at IN2B Site (450i)

APPENDIX C: ON-FARM SIGNIFICANT EVENTS

*: B = House and farm; I = Main instruments; M = Measurement setup

Date	B	I	M	Events
11/29/07		x		Innova was removed for repair due to a chopper failure.
12/01/07	x			H8 started to remove birds this week.
12/04/07		x		Innova was repaired and re-installed.
12/07/07	x			Remodeling is finished in houses 8 and 9.
12/08/07	x			H9 birds started molting this week.
12/22/07	x			House 8 has filled in new birds this week.
01/18/08		x		All speed sensors have now been installed.
01/19/08	x			H9 birds finished molting this week.
01/24/08		x		An Innova loaned from Ohio State University was installed.
01/28/08		x		B9 outlet TEOM analog output changed from mass to ambient press.
01/29/08		x		NH3 span concentration switched to 100 ppm from 27 ppm.
02/14/08		x		Shutdown TEOM B9 and removed controller unit for repairs.
02/15/08		x		TFS 450i is installed
02/20/08	x			Manure from manure shed is being removed.
02/21/08		x		Airflow defector was installed on TEOM in B8 and B9 belt exhaust.
02/21/08		x		Manure shed sonic E sensor sent to manufacturer for calibration.
02/21/08		x		TEOM Microbalance from B8 S belt outlet has been removed.
02/29/08		x		Both of RH/T sensors at B8 S belt and B8SF33 are giving wrong data.
03/05/08		x		RH/T sensor B8 SF33 was replaced.
03/12/08		x		Manure shed NW door sensor cable has been repaired.
03/13/08		x		Manure shed SE sonic anemometer has been taken down.
03/13/08		x		A new power adapter was installed to power SE and NE sonics.
03/20/08		x		Time on computer and Beta Gauge was set to Eastern Standard Time or Indiana East. Beta Gauge set temperature from 273°K to 293°K.
03/26/08		x		Shed door sensors on SE and NW not working and were uninstalled.
03/27/08		x		SE sonic anemometer was moved closer to opening.
03/27/08	x			Manure belt at B8S was replaced.
04/03/08			x	Teflon and rubber gaskets were changed in GSS sampling pump.
04/18/08		x		Vibration sensor on B9 SF6 was remounted.
04/24/08		x		Vibration sensor for H9 fan N 41 is not working.
04/25/08		x		AirDAC program measurement range was increased to -1000 to 150,000 $\mu g/m^3$ to catch high concentrations. (which TEOM?)
04/25/08		x		Four vibration sensors not working in H9: NF41, SF43, SF35, and SF8.
05/08/08		x		Flow adapter installed on TEOMs' B9 inlet & outlet. Analog output for PM changed from 9000 to 150000 $\mu g/m^3$.
05/16/08		x		Manure door sensors were repaired.
05/22/08		x		Innova 1412 was disconnected due to an o-ring failure.
05/23/08		x		Vibration sensor B8SF33B is not working.
06/25/08			x	AirDAC program was updated to version 08.0620.
06/26/08			x	Sonic anemometer data are invalid from 6/25/08 at 16:50.
06/26/08			x	Sampling location of F28 changed to F10 and GSS config. updated.

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Date	B	I	M	Events
06/27/08		x		Vibration sensors on 9SF 3 remounted and on 9NF18 replaced.
06/29/08	x			Second pile of manure from south in manure shed is wet.
07/09/08			x	AirDAC program was updated to Version 08.0708.
07/18/08	x			Water leak in B9 covering 25% to 35% of house starting at SW corner.
07/23/08			x	Teflon and rubber diaphragm was replaced in GSS sampling pump.
07/31/08	x			Variable speed fans shut-off for 2 h due to tripped breaker.
08/07/08			x	HVAC breaker was tripped and interior OFIS temperature is 37°C.
08/12/08			x	Analog output settings of B8 outlet TEOM were corrected.
08/28/08		x		Beta Gauge was shut- off and pump removed.
09/05/08		x		Beta Gauge was moved and installed on a platform in manure shed.
09/05/08			x	Beta Gauge analog output changed from 9900 to 50000 $\mu g/m^3$.
09/09/08	x			Power outage at 13:06 on 9/8/08 and computer shutdown at 14:58.
09/22/08			x	AirDAC program was updated to version 08.0922.
10/02/08		x		Beta Gauge has failed.
10/03/08		x		A new pump diaphragm was installed in TFS 450i.
10/11/08	x			House 9 started to remove birds this week.
10/16/08		x		Environics was disconnected for calibration.
10/22/08	x			New birds are being placed into house 9.
10/22/08		x		SE door sensor has been disconnected and is being repaired.
10/23/08		x		B9 vibration sens. NF24, SF37, & SF34 replaced. Shed Beta removed.
10/25/08	x			House 9 finished move in new birds this week.
11/06/08		x		Environics was disconnected for calibration.
11/12/08		x		Environics S-4040 was reconnected after calibration.
11/19/08			x	SE door sensor was remounted in manure shed.
12/11/08	x			B8 variable speed fans on south side were off or not working.
12/17/08		x		All three sonic anemometers on E wall of shed are reading zero.
12/17/08		x		Beta Gauge is not working.
12/23/08		x		Beta Gauge was removed from manure shed.
01/10/09	x			H8 birds started molting this week.
01/30/09		x		B8 inlet TEOM controller unit failed and is being repaired.
02/05/09		x		A new T-sensor was installed for B8 inlet TEOM inside trailer.
02/13/09		x		9NF10 V-sensor was reattached to fan. V-sensors at 9SF30 and 8NF34 were replaced. A new anemometer was installed in manure shed next to Beta Gauge.
02/19/09		x		Beta Gauge in manure shed was reinstalled.
02/28/09	x			H8 birds finished molting this week.
03/05/09		x		SE door sensor was removed for repair.
03/06/09		x		Diaphragms in GSS sampling pump were replaced.
03/18/09		x		NW door sensor was repaired.
03/18/09			x	AirDAC program was updated to version 09.0318.
04/09/09	x			Southside variable speed fans in B8 are not running.
04/23/09		x		NE and SE door sensors were repaired.
05/06/09		x		Power to OFIS was off from 14:56 to 15:25 on 5-5-09.
05/11/09		x		Beta Gauge is not working properly.

Date	B	I	M	Events
05/20/09		x		OFIS HVAC capacitor failure.
05/27/09			x	Temperature inside OFIS is 43.0°C.
06/04/09		x		Rubber and Teflon diaphragms in GSS sampling pump were replaced.
06/05/09	x			Manure shed was cleaned out today.
06/26/09	x			Variable speed fans on B8 south side were shutdown at 6:54.
06/28/09		x		Innova 1412 had a chopper failure.
06/29/09		x		Computer clock rolled back for 15 d from 6/26/09 at about 15:00.
08/31/09			x	An EPA audit was conducted with Bill and Larry.
09/17/09	x			Manure belts and pit at east end of house 8 are being cleaned.
11/12/09			x	Personal TSP sampler used to verify TEOM sampling method at SF33.
11/19/09			x	Personal TSP sampler used to verify TEOM sampling method at SF33.
12/02/09			x	Two new speed sensors were installed at B9SF21 and B9SF25.
12/05/09	x			H9 birds started molting this week.
12/10/09			x	Personal TSP sampler used to verify TEOM sampling method at SF33.
12/17/09			x	Personal TSP sampler used to verify TEOM sampling method at SF33.
01/07/10		x		TEOM B8 SF33 is not working because the filter at is not vibrating.
01/07/10			x	A new method for TSP sampling using 120 VAC pumps was tested.
01/13/10			x	dP pressure sensor for B8 N belt is not working.
01/16/10	x			H9 birds finished molting this week.

*: B = House and farm; I = Main instruments; M = Measurement setup

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APPENDIX D: CHARACTERISTICS OF BIOMATERIALS

Table E1. Characteristics of layer manure sampled on the under-cage belts (mean ± SD).

House	Date	n	pH	Solids, %*	Ammonia, %*
8	7/18/08	9	7.18 ± 1.69	25.5 ± 7.56	0.81 ± 0.21
8	10/29/08	9	7.57 ± 1.55	27.1 ± 6.29	0.41 ± 0.25
9	5/8/08	18	7.33 ± 0.42	27.5 ± 3.31	0.79 ± 0.21
9	7/18/08	9	7.23 ± 1.41	27.3 ± 6.88	0.82 ± 0.23
9	10/29/08	9	8.00 ± 1.61	37.6 ± 8.84	0.25 ± 0.10

Note: *wet weight basis.

Table E2. Characteristics of layer manure sampled in the drying tunnel (mean ± SD).

House	Date	n	pH	Solids, %*	Ammonia, %*
8	3/7/08	12	8.10 ± 0.80	46.0 ± 8.13	0.75 ± 0.16
8	5/8/08	12	7.45 ± 0.62	53.0 ± 23.4	0.70 ± 0.48
8	7/18/08	12	7.43 ± 0.41	59.5 ± 22.8	0.55 ± 0.24
8	10/29/08	12	8.14 ± 0.22	40.6 ± 9.96	0.38 ± 0.08
8	2/20/09	13	8.39 ± 0.28	53.6 ± 19.5	0.44 ± 0.27
8	6/5/09	12	7.20 ± 0.22	53.6 ± 16.6	0.33 ± 0.15
8	8/19/09	12	7.88 ± 0.49	52.1 ± 27.0	0.58 ± 0.39
8	11/6/09	12	8.53 ± 0.37	42.2 ± 20.4	0.83 ± 0.19
9	3/7/08	12	7.85 ± 0.91	42.4 ± 12.3	0.60 ± 0.16
9	5/8/08	12	7.44 ± 0.28	61.4 ± 21.2	0.58 ± 0.46
9	7/18/08	12	7.39 ± 0.23	60.6 ± 27.6	0.50 ± 0.29
9	10/29/08	12	7.72 ± 0.38	59.0 ± 3.17	0.21 ± 0.13
9	2/20/09	10	7.70 ± 0.41	37.4 ± 12.3	0.75 ± 0.13
9	6/5/09	11	7.14 ± 0.27	54.6 ± 20.6	0.44 ± 0.19
9	8/19/09	12	7.59 ± 0.49	70.0 ± 24.2	0.37 ± 0.33
9	11/6/09	11	8.28 ± 0.39	50.0 ± 23.4	0.73 ± 0.38

Note: *wet weight basis.

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Table E3. Characteristics of layer manure sampled in the manure shed (mean ± SD).

H	Date	n	pH	Solids, %*	Ammonia, %*	TKN, %*	Ash, %*
8	3/8/08	6	8.10 ± 0.20	54.4 ± 8.06	0.91 ± 0.32		
8	5/8/08	8	7.71 ± 0.28	82.4 ± 5.99	0.59 ± 0.20	3.74 ± 0.64	
8	7/18/08	8	7.37 ± 0.21	85.5 ± 3.02	0.30 ± 0.31	5.40 ± 3.35	
8	8/19/08	2		84.4 ± 0.14		3.83 ± 0.01	28.0 ± 1.34
8	10/29/08	3	8.14 ± 0.00	63.3 ± 19.2	0.40 ± 0.00	2.41 ± 0.69	
8	2/20/09	3	8.76 ± 0.00	43.6 ± 5.43	0.45 ± 0.00	3.18 ± 1.70	7.43 ± 1.46
8	6/5/09	8	7.19 ± 0.27	64.9 ± 35.5	0.20 ± 0.15	3.02 ± 0.91	25.6 ± 2.40
8	11/6/09	3	8.49 ± 0.00	74.1 ± 2.27	0.32 ± 0.00	2.74 ± 0.76	31.5 ± 6.36
8	8/19/09	6	7.34 ± 0.32	82.6 ± 5.49	0.29 ± 0.15		
9	3/8/08	6	8.12 ± 0.40	54.0 ± 6.63	0.68 ± 0.28		
9	5/8/08	8	7.75 ± 0.61	79.5 ± 15.8	0.35 ± 0.30	3.32 ± 1.62	
9	7/18/08	8	7.48 ± 0.09	86.0 ± 3.97	0.22 ± 0.12	3.97 ± 1.17	
9	8/19/08	2		87.7 ± 0.78		4.45 ± 2.25	26.7 ± 3.89
9	10/29/08	2		41.2 ± 3.61		2.34 ± 0.61	
9	2/20/09	2		56.2 ± 23.8		3.19 ± 1.36	22.6 ± 8.41
9	6/5/09	9	7.42 ± 0.27	57.3 ± 37.3	0.35 ± 0.19	2.71 ± 0.57	26.7 ± 1.98
9	11/6/09	2		72.9 ± 11.5		4.34 ± 0.34	23.0 ± 2.47
9	8/19/09	5	7.54 ± 0.56	54.0 ± 25.8	0.57 ± 0.31		

Note: *wet weight basis.

Table E4. Characteristics of layer manure sampled in houses 8 and 9 (mean ± SD).

House	Date	n	pH	Solids, %*	Ammonia, %*
8	10/29/08	5	8.47 ± 0.33	59.1 ± 11.9	0.44 ± 0.09
8	2/20/09	9	8.34 ± 0.21	29.3 ± 3.65	0.54 ± 0.18
8	2/20/09	5	8.48 ± 0.07	61.2 ± 17.0	0.29 ± 0.14
8	6/5/09	9	7.16 ± 0.31	33.7 ± 5.62	0.38 ± 0.11
8	8/14/09	4	7.55 ± 0.35	26.2 ± 1.79	0.76 ± 0.09
8	8/19/09	6	7.57 ± 0.21	24.8 ± 2.86	0.74 ± 0.14
8	11/5/09	8	8.24 ± 0.38	23.9 ± 2.09	0.86 ± 0.18
8	11/6/09	5	8.47 ± 0.52	65.1 ± 15.7	0.53 ± 0.23
9	10/29/08	6	8.53 ± 0.17	35.4 ± 2.30	0.67 ± 0.21
9	2/20/09	9	7.59 ± 0.65	26.3 ± 3.71	0.74 ± 0.10
9	2/20/09	7	7.65 ± 0.32	40.1 ± 7.29	0.75 ± 0.17
9	6/5/09	9	7.08 ± 0.24	28.1 ± 3.62	0.49 ± 0.09
9	8/14/09	3	7.35 ± 0.23	25.6 ± 5.02	0.71 ± 0.10
9	8/18/09	5	7.42 ± 0.55	26.7 ± 3.11	0.75 ± 0.08
9	11/5/09	9	8.13 ± 0.27	25.4 ± 1.67	0.74 ± 0.12
9	11/6/09	6	8.24 ± 0.44	56.9 ± 26.9	0.63 ± 0.35

Note: *wet weight basis.

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Table E5. Characteristics of feed sampled in houses 8 and 9 (mean ± SD).

House	Date	n	Solids, %*	TKN, %*
8	3/7/08	4	89.9 ± 0.22	2.41 ± 0.32
8	5/8/08	4	83.5 ± 6.26	1.84 ± 0.52
8	7/18/08	4	89.3 ± 1.03	1.74 ± 0.09
8	10/29/08	4	87.9 ± 1.21	1.78 ± 0.25
8	2/20/09	4	88.3 ± 1.08	1.88 ± 0.19
8	6/5/09	4	89.4 ± 0.83	1.94 ± 0.32
8	8/19/09	4	87.7 ± 0.76	2.09 ± 0.15
8	11/5/09	4	88.8 ± 0.49	2.09 ± 0.27
9	3/7/08	4	87.2 ± 0.83	2.55 ± 0.15
9	5/8/08	4	87.8 ± 1.49	1.88 ± 0.26
9	7/18/08	4	89.0 ± 0.67	1.67 ± 0.38
9	10/29/08	4	89.0 ± 0.62	1.76 ± 0.34
9	2/20/09	4	88.2 ± 0.74	1.85 ± 0.16
9	6/5/09	4	90.0 ± 0.26	2.02 ± 0.19
9	8/19/09	4	88.3 ± 1.92	2.09 ± 0.30
9	11/5/09	4	90.1 ± 0.84	2.13 ± 0.14

Note: *wet weight basis.

Table E6. Characteristics of eggs sampled in houses 8 and 9 (mean ± SD).

House	Date	n	Solids, %*	TKN, %*
8	3/7/08	4	26.0 ± 2.20	1.63 ± 0.07
8	5/8/08	4	22.5 ± 0.39	1.09 ± 0.10
8	7/18/08	4	24.9 ± 4.17	1.96 ± 0.05
8	10/29/08	4	22.7 ± 0.14	1.89 ± 0.04
8	2/20/09	4	25.1 ± 1.30	1.95 ± 0.14
8	6/5/09	4	22.4 ± 0.73	1.79 ± 0.13
8	8/19/09	4	22.7 ± 1.69	2.23 ± .049
8	11/5/09	4	24.4 ± 2.25	1.86 ± 0.05
9	3/7/08	4	24.1 ± 1.04	1.57 ± 0.02
9	5/8/08	4	22.1 ± 0.31	1.89 ± 0.12
9	7/18/08	4	22.7 ± 0.34	1.87 ± 0.06
9	10/29/08	4	20.1 ± 0.36	1.93 ± 0.10
9	2/20/09	4	22.7 ± 0.70	1.93 ± 0.05
9	6/5/09	4	23.6 ± 0.81	1.91 ± 0.03
9	8/19/09	4	21.9 ± 1.85	2.27 ± 0.83
9	11/5/09	4	23.4 ± 0.46	1.87 ± 0.04

Note: *wet weight basis.

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Table E7. Characteristics of water sampled at different sources.

Sample Location	Sampling date	TKN, mg/L	Nitrate/Nitrite N, mg/L	Total N, mg/L	Total sulfur, mg/L
H8	9/6/09	0.50	0.68	1.18	10.1
H9	9/6/09	0.50	n.d.	0.50	10.5
H8	1/22/10	n.d.	0.5	0.5	10.2
H9	1/22/10	n.d.	0.5	0.5	10.3
Well 4	1/22/10	n.d.	n.d.	n.d.	10.5
Well 5	1/22/10	0.67	n.d.	0.67	10.4
ARB	1/22/10	0.55	n.d.	0.55	9.9

Note: n.d. = not detectable. ARB = After Resin Bed

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APPENDIX F: DAILY MEAN DATA

Table F1. Weather variables.

Table F1. Daily means (SD) of weather parameters at site IN2B for January, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1						
2						
3	-10.3 (3.4)	91.4 (2.6)	0.56 (0.33)	219 (25)	99 (151)	100.4 (0.3)
4	-1.4 (2.9)	67.8 (8.6)	0.79 (0.39)	208 (16)	83 (136)	99.3 (0.3)
5	4.2 (1.5)	83.0 (13.2)	0.54 (0.30)	196 (14)	20 (31)	98.4 (0.2)
6	11.9 (3.0)		1.15 (0.39)	194 (15)	13 (19)	97.9 (0.2)
7	16.8 (1.4)	82.8 (4.9)	1.34 (0.62)	216 (15)	37 (69)	98.0 (0.1)
8	14.0 (1.9)	93.2 (5.8)	6.71 (3.92)	203 (78)	21 (49)	97.3 (0.4)
9	3.8 (1.0)	85.6 (5.1)	4.43 (6.35)	249 (61)	60 (110)	98.4 (0.5)
10	4.7 (2.8)	90.2 (7.6)	1.26 (1.05)	124 (40)	33 (55)	97.5 (0.9)
11	3.1 (1.5)	86.8 (3.4)	2.19 (1.33)	253 (13)	11 (17)	97.2 (0.6)
12	3.0 (2.1)	79.8 (6.4)	0.20 (0.18)	170 (47)	88 (135)	98.3 (0.1)
13	1.5 (1.2)	91.6 (3.8)	0.64 (0.68)	226 (81)	12 (18)	98.0 (0.1)
14	-3.1 (1.3)	89.9 (3.8)	1.47 (0.50)	269 (12)	26 (43)	98.2 (0.1)
15	-5.4 (1.7)	89.6 (4.7)	1.01 (0.70)	261 (24)	83 (140)	98.6 (0.2)
16	-1.9 (4.2)	80.1 (11.9)	0.42 (0.37)	151 (9)	77 (129)	98.9 (0.1)
17	1.1 (2.7)	89.5 (7.7)	1.18 (1.26)	185 (46)	29 (52)	98.0 (0.4)
18	-4.7 (2.9)	72.5 (11.6)	1.65 (0.86)	243 (21)		98.3 (0.2)
19						
20	-14.0 (3.0)	70.2 (12.2)	1.20 (0.65)	267 (14)	118 (174)	99.8 (0.3)
21	-5.8 (4.7)	66.1 (12.4)	0.60 (0.53)	185 (33)	110 (165)	99.9 (0.6)
22	-4.3 (3.9)		1.97 (1.19)	251 (28)	57 (95)	98.5 (0.2)
23	-8.5 (2.8)	84.5 (8.2)	0.48 (0.36)	248 (63)	104 (155)	98.5 (0.1)
24	-11.6 (2.8)	87.2 (5.9)	0.85 (0.39)	286 (38)	109 (170)	99.1 (0.6)
25	-11.0 (5.9)	76.9 (14.0)	0.32 (0.18)	215 (39)	104 (165)	99.7 (0.3)
26	-2.3 (1.8)	89.3 (6.1)	0.59 (0.36)	198 (37)	52 (81)	98.4 (0.3)
27	-3.3 (2.6)	83.7 (8.5)	0.35 (0.30)	234 (61)	118 (176)	98.6 (0.2)
28	3.1 (4.7)	77.1 (17.9)	0.82 (0.72)	168 (20)	59 (99)	97.9 (0.6)
29	7.3 (5.7)	82.9 (13.2)	2.02 (2.14)	211 (28)	16 (26)	96.1 (0.6)
30	-11.5 (2.1)	77.7 (5.4)	3.13 (2.37)	265 (17)	125 (182)	98.2 (0.8)
31	-6.6 (2.5)	77.7 (9.6)	1.15 (0.96)	79 (44)	38 (62)	99.3 (0.4)
Avg	-1.1	82.6	1.39	218.0	63	98.5
n	28	26	28	28	27	28
SD	7.7	7.5	1.36	46.0	38	0.9
Min	-14.0	66.1	0.20	79.0	11	96.1
Max	16.8	93.2	6.71	286.0	125	100.4

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Table F1. Daily means (SD) of weather parameters at site IN2B for February, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	-1.4 (1.6)		1.14 (0.72)	25 (104)	47 (75)	97.3 (0.4)
2	0.1 (2.4)	88.0 (6.9)	0.53 (0.47)	199 (41)	94 (151)	98.1 (0.2)
3	0.1 (0.8)	95.7 (4.4)	0.73 (0.69)	84 (102)	62 (94)	98.3 (0.2)
4	5.2 (5.0)		0.43 (0.28)	126 (37)	44 (70)	97.4 (0.3)
5	7.0 (3.7)		8.54 (4.79)	358 (128)	21 (36)	97.2 (0.3)
6	1.9 (0.8)		4.78 (2.22)	111 (81)	10 (15)	96.2 (0.3)
7	-0.3 (0.5)	96.2 (3.4)	0.90 (1.09)	271 (42)	31 (47)	97.4 (0.3)
8	2.5 (2.2)	88.8 (8.8)	0.44 (0.50)	199 (31)	72 (118)	
9	2.2 (1.6)	86.3 (8.2)	1.73 (1.15)	246 (34)	57 (98)	97.1 (0.2)
10	-11.8 (4.6)	67.9 (6.7)	3.08 (1.31)	289 (16)	107 (159)	98.5 (0.6)
11	-12.8 (2.7)	83.1 (9.9)	0.49 (0.39)	189 (84)	63 (94)	99.2 (0.1)
12	-7.7 (1.9)		0.99 (0.61)	48 (118)	44 (61)	
13	-6.8 (2.2)		0.30 (0.22)	283 (30)	106 (138)	97.6 (0.4)
14						97.3 (2.2)
15	-1.8 (2.6)	83.1 (5.1)	0.79 (0.54)	318 (60)	137 (201)	97.3 (0.0)
16	-3.4 (4.5)	82.3 (11.4)	0.18 (0.15)	119 (59)	159 (220)	97.6 (0.2)
17	6.7 (4.0)	87.6 (9.1)	2.17 (1.79)	184 (48)	54 (120)	98.5 (0.3)
18	-1.7 (2.9)	78.3 (10.9)	3.01 (1.40)	262 (12)	131 (207)	98.6 (0.0)
19						98.6 (0.1)
20	-6.2 (1.5)	79.0 (17.4)	0.50 (0.56)	346 (140)	163 (241)	98.9 (0.1)
21	-7.7 (1.9)	78.0 (15.2)	0.51 (0.43)	99 (27)	79 (117)	101.3 (0.0)
22	-2.4 (1.9)		0.35 (0.34)	60 (79)		101.3 (0.0)
23	-2.8 (2.6)		0.12 (0.10)	287 (87)	155 (231)	101.3 (0.0)
24	-1.9 (3.2)	85.3 (9.0)	0.23 (0.21)	225 (38)	151 (214)	101.3 (0.0)
25	0.9 (0.9)	90.6 (3.8)	0.54 (0.39)	209 (48)	37 (51)	101.3 (0.0)
26	0.0 (2.1)		1.65 (1.14)	360 (152)	103 (150)	101.3 (0.0)
27	-6.5 (2.0)	84.2 (6.8)	0.64 (0.57)	292 (26)	138 (199)	101.3 (0.0)
28	-7.5 (3.0)	84.0 (13.2)	0.24 (0.14)	223 (51)	170 (242)	101.3 (0.0)
29	0.6 (2.5)		1.17 (0.91)	215 (58)	80 (116)	101.3 (0.0)
Avg	-2.1	84.6	1.34	245.0	89	99.0
n	27	17	27	27	26	27
SD	5.0	6.6	1.77	95.0	48	1.8
Min	-12.8	67.9	0.12	25.0	10	96.2
Max	7.0	96.2	8.54	360.0	170	101.3

ED_001509B_00005068-00064

Table F1. Daily means (SD) of weather parameters at site IN2B for March, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	-0.2 (1.6)	73.5 (7.5)	0.53 (0.65)	273 (73)	129 (197)	101.3 (0.0)
2						101.3 (0.0)
3	8.8 (6.0)		1.09 (0.51)	247 (81)	18 (30)	101.3 (0.0)
4	-1.0 (1.0)		1.67 (1.12)	36 (94)	41 (65)	101.3 (0.0)
5	-2.3 (2.6)		0.45 (0.36)	251 (66)	188 (259)	101.3 (0.0)
6	0.4 (1.4)	86.8 (9.9)	0.36 (0.29)	255 (47)	134 (201)	101.3 (0.0)
7	-1.9 (1.1)	71.7 (11.2)	0.94 (0.64)	20 (119)	129 (180)	101.3 (0.0)
8	-5.1 (1.5)	71.8 (8.3)	1.27 (0.81)	336 (140)	188 (269)	98.3 (0.3)
9	-1.8 (4.4)	79.1 (9.7)	0.23 (0.19)	194 (40)		99.3 (0.2)
10	2.5 (2.0)	84.7 (8.8)	0.22 (0.25)	31 (113)	149 (231)	99.5 (0.0)
11	0.5 (2.8)	82.4 (10.4)	0.64 (0.49)	246 (32)	193 (258)	98.8 (0.6)
12	4.3 (2.3)	76.1 (11.6)	0.36 (0.33)	88 (94)		98.2 (0.2)
13	8.3 (4.4)	74.3 (10.8)	0.87 (0.59)	222 (51)	192 (263)	97.7 (0.2)
14	11.4 (2.7)	68.9 (13.8)	0.17 (0.13)	276 (83)	175 (230)	97.6 (0.1)
15	6.5 (2.0)	68.7 (6.2)	0.26 (0.20)	14 (150)	55 (73)	97.9 (0.2)
16	4.3 (2.6)	72.1 (12.3)	0.33 (0.20)	9 (159)	223 (292)	99.4 (0.5)
17	2.3 (1.7)	80.7 (11.5)	0.90 (0.55)	112 (15)	71 (106)	99.8 (0.4)
18	9.7 (3.9)	94.4 (5.2)	0.52 (0.43)	148 (87)	25 (36)	98.1 (0.4)
19	4.6 (1.3)		1.28 (0.55)	350 (151)	37 (48)	97.7 (0.2)
20	4.0 (3.3)	68.5 (21.8)	0.61 (0.65)	315 (102)	236 (295)	99.0 (0.4)
21	2.0 (1.3)	79.7 (12.3)	1.53 (1.02)	86 (24)	80 (149)	98.8 (0.6)
22	1.6 (2.9)		0.56 (0.46)	26 (134)	179 (251)	98.9 (0.4)
23	1.5 (2.7)	73.5 (12.2)	0.23 (0.28)	305 (91)	178 (243)	99.3 (0.1)
24	2.0 (2.8)	73.1 (16.5)	0.19 (0.15)	313 (114)	177 (263)	99.5 (0.1)
25	6.4 (3.8)	62.3 (8.9)	1.93 (1.59)	224 (37)	103 (142)	98.4 (0.4)
26	7.7 (3.0)	61.9 (12.0)	0.36 (0.36)	268 (50)	209 (272)	98.8 (0.1)
27	5.7 (1.8)		1.87 (2.60)	67 (41)	40 (72)	98.2 (0.2)
28	3.2 (2.3)	71.1 (16.8)	1.06 (0.80)	6 (166)	245 (315)	99.0 (0.5)
29	2.6 (3.2)	71.4 (13.5)	0.93 (0.76)	80 (42)	215 (270)	99.8 (0.1)
30	6.0 (4.5)	83.7 (10.0)	0.85 (0.55)	123 (25)	48 (70)	99.2 (0.2)
31	15.8 (1.3)	93.7 (6.6)	0.95 (0.60)	184 (17)	51 (84)	98.3 (0.5)
Avg	3.7	76.0	0.77	329.0	132	99.3
n	30	24	30	30	28	31
SD	4.4	8.3	0.50	112.0	72	1.2
Min	-5.1	61.9	0.17	6.0	18	97.6
Max	15.8	94.4	1.93	350.0	245	101.3

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Table F1. Daily means (SD) of weather parameters at site IN2B for April, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	6.8 (4.4)	82.3 (7.9)	2.31 (1.34)	288 (53)	35 (47)	98.5 (0.8)
2	4.4 (3.4)	62.3 (16.8)	0.25 (0.23)	93 (72)	253 (304)	100.0 (0.2)
3	6.8 (3.7)	66.1 (16.0)	0.62 (0.50)	93 (21)	146 (235)	100.3 (1.0)
4	7.5 (1.2)		0.39 (0.25)	0 (146)	26 (33)	101.3 (0.0)
5	10.6 (5.1)	69.9 (19.8)	0.13 (0.08)	186 (61)	241 (298)	101.3 (0.0)
6	12.5 (4.7)	62.4 (14.0)	0.23 (0.25)	115 (19)	251 (309)	101.3 (0.0)
7	14.6 (3.7)	60.4 (17.8)	0.90 (0.94)	225 (76)	249 (303)	101.3 (0.0)
8	14.8 (6.2)	60.4 (11.8)	0.77 (0.55)	118 (67)	149 (201)	101.3 (0.0)
9	9.5 (3.6)	76.6 (8.4)	1.07 (1.04)	292 (100)	121 (162)	101.3 (0.0)
10	7.3 (1.7)	91.9 (7.2)	2.50 (2.28)	96 (15)	32 (43)	100.4 (1.6)
11	15.4 (4.7)	68.1 (12.1)	6.00 (6.12)	203 (53)	214 (276)	97.0 (0.2)
12	5.0 (1.1)	87.7 (8.2)	1.90 (0.98)	251 (17)	67 (88)	97.4 (0.2)
13	4.1 (1.1)	82.9 (11.0)	0.70 (0.52)	357 (160)	77 (103)	98.4 (0.4)
14	6.5 (4.4)	60.4 (19.1)	0.35 (0.25)	8 (161)	253 (318)	99.2 (0.2)
15	9.2 (4.9)	52.2 (15.3)	0.39 (0.39)	222 (66)	278 (325)	99.3 (0.2)
16	15.2 (4.9)	41.9 (10.9)	0.87 (0.64)	191 (18)	277 (322)	98.7 (0.2)
17	18.8 (4.9)	47.7 (7.7)	0.71 (0.59)	209 (21)	242 (287)	98.6 (0.1)
18	21.1 (4.2)	47.9 (13.8)	0.59 (0.58)	169 (19)	263 (309)	98.3 (0.2)
19	15.4 (1.7)	76.1 (11.1)	0.25 (0.27)	186 (61)	79 (127)	98.0 (0.1)
20	15.7 (4.0)	78.0 (15.6)	0.25 (0.17)	221 (64)	172 (266)	98.3 (0.2)
21	17.9 (4.6)	68.9 (25.4)	0.20 (0.18)	135 (19)	257 (319)	98.8 (0.1)
22	20.5 (4.7)	58.9 (19.7)	0.22 (0.24)	162 (40)	207 (256)	98.7 (0.1)
23	22.1 (3.8)	54.1 (10.8)	0.33 (0.32)	86 (61)	220 (275)	99.1 (0.1)
24	19.5 (4.5)	42.1 (16.5)	1.01 (0.63)	118 (20)	214 (258)	99.0 (0.4)
25	24.1 (3.0)	57.0 (11.9)	1.19 (0.95)	195 (24)	192 (224)	98.1 (0.3)
26	12.2 (3.5)	62.4 (18.0)	2.02 (1.03)	256 (15)	254 (326)	98.6 (0.4)
27	12.4 (3.4)	48.6 (15.3)	0.34 (0.26)	325 (115)	219 (282)	99.0 (0.2)
28	8.5 (3.0)	72.5 (19.5)	0.55 (0.55)	286 (65)	139 (228)	
29	6.5 (2.4)	69.6 (21.6)	0.54 (0.49)	339 (120)	226 (284)	98.8 (0.2)
30	10.5 (5.5)	49.3 (11.5)	0.21 (0.20)	133 (69)	279 (331)	98.6 (0.3)
Avg	12.5	64.1	0.93	184.0	188	99.3
n	30	29	30	30	30	29
SD	5.6	13.2	1.14	89.0	79	1.3
Min	4.1	41.9	0.13	0.0	26	97.0
Max	24.1	91.9	6.00	357.0	279	101.3

ED_001509B_00005068-00066

Table F1. Daily means (SD) of weather parameters at site IN2B for May, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	18.6 (5.5)	58.1 (10.5)	0.61 (0.66)	166 (44)	163 (244)	
2	21.2 (1.7)	69.4 (8.4)	0.96 (0.66)	192 (25)	102 (163)	97.5 (0.1)
3	14.6 (3.4)	71.0 (11.6)	1.79 (1.52)	230 (47)	183 (276)	97.6 (0.4)
4	14.0 (4.8)	57.9 (23.6)	0.34 (0.28)	236 (25)	304 (343)	98.8 (0.1)
5	17.6 (4.4)	46.6 (12.0)	0.77 (0.61)	235 (68)	250 (301)	98.7 (0.1)
6	21.9 (4.8)	44.8 (15.9)	0.42 (0.49)	203 (33)	240 (297)	98.4 (0.2)
7	19.3 (1.0)	73.5 (16.1)	0.80 (0.62)	218 (49)	48 (57)	97.7 (0.2)
8	12.6 (2.0)	78.7 (7.2)	0.96 (0.49)	49 (81)	66 (83)	97.8 (0.1)
9	14.2 (2.7)	64.6 (6.4)	0.33 (0.26)	27 (131)	90 (113)	97.8 (0.1)
10	16.1 (4.3)	54.1 (12.6)	0.34 (0.31)	96 (100)	249 (303)	98.1 (0.3)
11	12.3 (1.6)	88.6 (10.5)	1.46 (0.95)	63 (119)	42 (62)	96.5 (0.6)
12	12.2 (4.2)	72.3 (15.1)	0.83 (0.61)	338 (108)	306 (348)	98.2 (0.3)
13	17.7 (5.2)	61.3 (19.7)	0.54 (0.51)	156 (23)	299 (338)	98.7 (0.2)
14	14.2 (1.8)	91.6 (8.7)	2.25 (1.58)	248 (61)	43 (51)	98.2 (0.2)
15	12.4 (1.8)	74.2 (11.1)	0.65 (0.48)	61 (93)	133 (161)	98.6 (0.1)
16	15.4 (4.1)	63.9 (24.3)	0.66 (0.38)	295 (57)	294 (346)	98.2 (0.2)
17	17.9 (3.3)	52.4 (17.6)	1.57 (1.01)	286 (83)	280 (355)	97.3 (0.2)
18	11.6 (1.4)	66.4 (15.3)	1.40 (1.17)	315 (85)	250 (313)	97.2 (0.2)
19	12.8 (3.7)	55.3 (20.8)	0.41 (0.45)	278 (71)	241 (279)	97.5 (0.1)
20	12.9 (1.6)	58.6 (7.3)	0.46 (0.43)	303 (96)	110 (132)	97.3 (0.1)
21	13.1 (2.4)	55.4 (12.4)	0.90 (0.85)	313 (101)	284 (342)	97.4 (0.2)
22	15.8 (3.6)	52.3 (10.7)	0.45 (0.36)	338 (135)	299 (338)	98.1 (0.2)
23	16.0 (3.2)	64.8 (11.0)	0.19 (0.16)	337 (110)	148 (197)	98.8 (0.1)
24	17.3 (4.7)	53.9 (19.0)	0.27 (0.28)	78 (56)	304 (342)	99.1 (0.1)
25	20.9 (6.3)	47.8 (17.6)	0.36 (0.28)	171 (42)	279 (316)	98.7 (0.4)
26	24.5 (2.9)	56.9 (8.7)	1.16 (0.84)	231 (30)		98.0 (0.1)
27						98.8 (0.4)
28	14.5 (5.2)	45.8 (17.8)	0.50 (0.40)	74 (25)	338 (363)	99.6 (0.2)
29	19.0 (6.1)	38.1 (16.2)	0.10 (0.10)	118 (69)	279 (326)	99.2 (0.2)
30	22.5 (4.2)	57.5 (17.1)	1.10 (1.04)	185 (51)	148 (207)	98.2 (0.4)
31	22.9 (2.4)	72.6 (20.3)	2.66 (3.05)	259 (34)	267 (325)	97.9 (0.1)
Avg	16.5	61.6	0.84	253.0	208	98.1
n	30	30	30	30	29	30
SD	3.6	12.4	0.60	95.0	93	0.7
Min	11.6	38.1	0.10	27.0	42	96.5
Max	24.5	91.6	2.66	338.0	338	99.6

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Table F1. Daily means (SD) of weather parameters at site IN2B for June, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	22.6 (3.4)	55.5 (15.6)	0.30 (0.30)	337 (131)	312 (336)	98.4 (0.1)
2	24.3 (5.0)	52.3 (16.4)	0.28 (0.37)	179 (58)	286 (332)	98.4 (0.2)
3	22.4 (2.7)	78.3 (11.2)	0.30 (0.25)	124 (66)	111 (124)	97.7 (0.3)
4	25.2 (3.0)	75.2 (14.2)	0.46 (0.31)	192 (56)	211 (266)	97.3 (0.2)
5	27.8 (2.9)	66.5 (9.5)	1.29 (0.98)	208 (38)	238 (279)	97.3 (0.1)
6	27.8 (3.2)	62.1 (10.7)	1.75 (1.13)	208 (13)	259 (326)	97.7 (0.1)
7	25.4 (1.9)	74.8 (7.0)	1.18 (0.54)	213 (14)	124 (170)	97.9 (0.1)
8	29.2 (2.8)	62.7 (12.1)	1.62 (0.84)	218 (9)	279 (307)	97.6 (0.2)
9	27.2 (2.7)	66.8 (12.3)	1.15 (0.73)	224 (54)	223 (308)	97.4 (0.0)
10	23.1 (2.6)	67.2 (19.9)	0.80 (0.62)	261 (41)	285 (338)	97.7 (0.2)
11	26.5 (3.7)	52.9 (14.8)	0.38 (0.27)	188 (34)	314 (342)	98.2 (0.1)
12	27.8 (4.0)	55.8 (9.9)	0.70 (0.45)	167 (18)	250 (263)	98.1 (0.2)
13	25.0 (1.6)	76.3 (6.9)	0.65 (0.36)	203 (25)	94 (144)	97.9 (0.1)
14	24.9 (3.0)	56.4 (25.9)	0.23 (0.14)	255 (53)	324 (351)	97.9 (0.1)
15	24.3 (3.3)	55.9 (14.3)	0.75 (0.93)	230 (46)	242 (312)	97.6 (0.2)
16	21.3 (3.0)	61.6 (16.8)	0.78 (0.72)	305 (58)	286 (323)	97.5 (0.2)
17	18.6 (3.4)	57.4 (17.1)	0.80 (0.82)	287 (41)	306 (347)	97.8 (0.1)
18	19.9 (3.4)	54.0 (14.3)	0.74 (0.78)	321 (83)	324 (351)	97.6 (0.0)
19	20.7 (5.1)	54.3 (20.0)	0.26 (0.24)	302 (105)	299 (334)	97.7 (0.1)
20	24.6 (4.4)	42.0 (13.7)	0.20 (0.21)	215 (67)	285 (328)	97.8 (0.1)
21	22.8 (2.6)	63.2 (10.3)	0.50 (0.71)	252 (62)	202 (250)	97.8 (0.1)
22	20.8 (3.4)	63.9 (13.6)	0.19 (0.29)	247 (84)	184 (264)	97.6 (0.1)
23	20.6 (3.5)	65.8 (15.8)	0.42 (0.48)	320 (64)	309 (347)	97.9 (0.2)
24	21.6 (5.0)	65.8 (21.4)	0.09 (0.07)	289 (93)	268 (310)	98.5 (0.1)
25	24.1 (2.3)	68.7 (6.0)	0.40 (0.35)	198 (56)	114 (181)	98.1 (0.3)
26	25.3 (1.6)	72.2 (4.6)	0.28 (0.33)	227 (53)	162 (228)	97.6 (0.1)
27	25.5 (2.5)	74.7 (10.1)	0.39 (0.41)	212 (25)	190 (254)	97.3 (0.1)
28	24.7 (2.4)	69.2 (21.0)	1.05 (0.62)	242 (20)	249 (322)	97.1 (0.0)
29	21.0 (1.9)	67.6 (10.0)	1.06 (0.83)	265 (53)	205 (271)	97.1 (0.1)
30	20.1 (3.5)	56.6 (19.6)	1.26 (0.86)	333 (85)	273 (304)	97.7 (0.2)
Avg	23.8	63.2	0.68	239.0	240	97.7
n	30	30	30	30	30	30
SD	2.7	8.5	0.44	52.0	66	0.4
Min	18.6	42.0	0.09	124.0	94	97.1
Max	29.2	78.3	1.75	337.0	324	98.5

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Table F1. Daily means (SD) of weather parameters at site IN2B for July, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	21.9 (6.1)	46.8 (14.2)	0.34 (0.27)	247 (46)	329 (353)	97.9 (0.1)
2	25.4 (3.7)	58.5 (9.4)	1.31 (1.05)	216 (16)	265 (314)	97.5 (0.2)
3	22.7 (1.9)	71.3 (12.4)	0.53 (0.44)	356 (129)	199 (289)	97.8 (0.3)
4	21.6 (3.6)	62.8 (19.3)	0.25 (0.20)	60 (34)	318 (356)	98.1 (0.1)
5	22.5 (4.3)	57.9 (15.9)	0.16 (0.16)	72 (60)	299 (349)	98.0 (0.1)
6	25.3 (4.8)	58.1 (10.7)	0.26 (0.22)	154 (47)	291 (333)	97.9 (0.1)
7	26.9 (2.5)	64.6 (6.9)	0.73 (0.50)	203 (25)	256 (307)	97.8 (0.1)
8	26.5 (2.0)	75.8 (8.7)	0.99 (0.98)	241 (39)	168 (228)	97.4 (0.1)
9	24.5 (1.7)	62.2 (19.4)	0.70 (0.57)	298 (52)	314 (348)	
10	25.4 (3.7)	57.4 (10.0)	0.47 (0.40)	223 (28)	258 (316)	98.0 (0.1)
11	26.4 (3.6)	65.0 (7.9)	0.41 (0.36)	227 (49)	258 (314)	98.0 (0.1)
12	26.8 (2.0)	73.6 (9.3)	0.66 (0.51)	246 (52)	219 (301)	97.7 (0.2)
13	23.8 (2.2)	54.6 (11.9)	0.94 (0.70)	280 (29)	327 (354)	
14	23.6 (4.0)	56.6 (16.0)	0.48 (0.44)	286 (86)	309 (352)	97.7 (0.1)
15	26.9 (4.7)	53.7 (13.6)	0.36 (0.28)	195 (39)	323 (344)	98.1 (0.1)
16	29.1 (2.9)	59.1 (11.1)	0.50 (0.34)	223 (23)		98.4 (0.1)
17	28.6 (3.1)	60.1 (12.6)	0.44 (0.34)	221 (24)	304 (333)	98.3 (0.1)
18	28.0 (3.3)	55.9 (13.8)	0.44 (0.39)	212 (22)	313 (341)	98.0 (0.1)
19	27.1 (1.2)	68.0 (5.0)	0.25 (0.22)	218 (52)	135 (142)	97.7 (0.1)
20	26.9 (2.3)	71.2 (10.7)	0.62 (0.78)	256 (48)	298 (343)	97.6 (0.1)
21	25.8 (1.8)	73.8 (10.5)	0.38 (0.51)	277 (82)	182 (236)	97.6 (0.1)
22	24.5 (2.8)	66.2 (13.4)	0.32 (0.32)	333 (116)	297 (337)	97.7 (0.1)
23	23.0 (3.8)	60.4 (18.3)	0.42 (0.34)	347 (133)	287 (333)	98.0 (0.1)
24	23.1 (5.2)	56.0 (23.2)	0.22 (0.18)	262 (57)	292 (313)	98.1 (0.1)
25	23.7 (5.0)	64.3 (15.6)	0.23 (0.21)	205 (34)	227 (289)	98.0 (0.1)
26	26.2 (2.9)	64.6 (16.0)	0.42 (0.34)	303 (98)	236 (298)	97.7 (0.1)
27	24.1 (4.6)	56.9 (16.5)	0.19 (0.18)	247 (39)	283 (317)	97.6 (0.1)
28	26.3 (2.9)	60.8 (7.8)	0.09 (0.07)	212 (75)	239 (277)	97.4 (0.1)
29	27.8 (3.9)	59.6 (16.1)	0.20 (0.22)	221 (83)	290 (334)	97.5 (0.1)
30	26.5 (1.8)	69.4 (6.9)	0.66 (0.48)	238 (38)	157 (192)	97.2 (0.1)
31	26.6 (3.4)	68.6 (15.8)	0.41 (0.40)	272 (41)	267 (337)	97.1 (0.1)
Avg	25.4	62.4	0.46	245.0	265	97.8
n	31	31	31	31	30	29
SD	2.0	6.7	0.26	63.0	53	0.3
Min	21.6	46.8	0.09	60.0	135	97.1
Max	29.1	75.8	1.31	356.0	329	98.4

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Table F1. Daily means (SD) of weather parameters at site IN2B for August, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	26.3 (3.0)	73.9 (11.4)	0.34 (0.81)	254 (55)	180 (274)	97.2 (0.1)
2	24.8 (3.0)	63.6 (22.4)	0.84 (0.96)	354 (146)	302 (336)	97.4 (0.2)
3	24.8 (3.7)	60.6 (15.4)	0.14 (0.13)	126 (71)	290 (335)	97.9 (0.1)
4	24.4 (1.9)	73.4 (6.6)	0.42 (0.60)	175 (57)	104 (123)	97.8 (0.1)
5	24.6 (2.3)	79.9 (8.8)	0.61 (0.51)	255 (47)	178 (267)	
6	25.3 (3.2)	68.0 (21.2)	0.20 (0.17)	308 (58)	274 (327)	98.0 (0.1)
7	23.4 (2.8)	64.0 (11.5)	0.64 (0.63)	313 (49)	281 (329)	97.7 (0.1)
8	21.9 (3.6)	62.4 (15.2)	0.32 (0.26)	336 (97)	287 (334)	97.8 (0.1)
9	20.7 (3.9)	71.7 (15.5)	0.33 (0.37)	264 (26)	234 (291)	97.6 (0.1)
10	19.3 (3.3)	65.2 (15.9)	0.49 (0.52)	341 (113)	299 (333)	97.8 (0.1)
11	21.5 (4.6)	62.6 (17.9)	0.14 (0.10)	358 (152)	265 (319)	97.9 (0.1)
12	23.4 (3.5)	59.5 (14.6)	0.07 (0.06)	20 (120)	257 (290)	97.6 (0.2)
13	22.9 (2.0)	62.5 (8.3)	0.08 (0.09)	356 (136)	141 (157)	97.3 (0.0)
14	22.7 (3.6)	66.1 (14.7)	0.12 (0.21)	1 (135)	209 (257)	97.5 (0.2)
15	22.4 (4.1)	58.0 (19.9)	0.21 (0.16)	17 (150)	294 (336)	98.1 (0.2)
16	23.3 (4.0)	54.6 (15.7)	0.20 (0.20)	321 (92)	289 (327)	98.3 (0.1)
17	23.4 (3.8)	57.2 (14.7)	0.30 (0.21)	245 (21)	283 (320)	98.0 (0.1)
18	24.5 (3.6)	61.1 (10.7)	0.34 (0.24)	245 (17)	258 (295)	97.8 (0.1)
19	25.0 (3.8)	60.8 (16.0)	0.09 (0.08)	343 (108)	224 (286)	98.1 (0.1)
20	22.4 (4.8)	50.1 (18.5)	0.36 (0.21)	102 (19)	285 (317)	98.3 (0.1)
21	24.3 (5.0)	62.0 (9.3)	0.31 (0.18)	133 (45)	203 (231)	98.1 (0.1)
22	26.7 (1.7)	67.8 (6.1)	0.13 (0.21)	168 (46)	130 (155)	98.2 (0.1)
23	28.3 (3.4)	61.9 (13.1)	0.25 (0.27)	200 (40)	242 (295)	98.1 (0.2)
24	25.7 (3.3)	58.9 (14.8)	0.39 (0.35)	327 (93)	275 (319)	97.8 (0.1)
25	21.3 (3.9)	59.4 (16.4)	0.52 (0.39)	59 (60)	257 (302)	98.0 (0.1)
26	20.3 (5.4)	56.6 (19.7)	0.64 (0.49)	75 (17)	288 (327)	97.9 (0.1)
27	23.5 (4.9)	63.0 (16.6)	0.18 (0.11)	78 (47)	238 (287)	97.6 (0.1)
28	24.3 (3.6)	67.2 (11.4)	0.14 (0.13)	177 (65)	207 (263)	97.4 (0.1)
29	26.4 (3.2)	57.4 (17.1)	0.42 (0.38)	331 (129)	237 (295)	97.5 (0.2)
30	25.4 (4.5)	45.5 (17.1)	0.14 (0.10)	30 (135)	274 (313)	98.2 (0.1)
31	25.7 (5.0)	43.3 (14.7)	0.23 (0.26)	116 (36)	268 (307)	98.4 (0.1)
Avg	23.8	61.9	0.31	346.0	244	97.8
n	31	31	31	31	31	30
SD	2.0	7.5	0.19	118.0	52	0.3
Min	19.3	43.3	0.07	1.0	104	97.2
Max	28.3	79.9	0.84	358.0	302	98.4

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Table F1. Daily means (SD) of weather parameters at site IN2B for September, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	25.3 (5.6)	42.7 (18.2)	0.22 (0.16)	109 (30)	275 (314)	98.3 (0.1)
2	27.1 (5.6)	52.3 (17.5)	0.19 (0.15)	57 (107)	260 (302)	98.0 (0.1)
3	26.5 (3.7)	63.5 (11.8)	0.70 (1.50)	328 (127)	178 (255)	97.7 (0.1)
4	23.6 (1.5)	75.2 (6.3)	0.63 (0.53)	113 (48)	67 (88)	97.2 (0.3)
5	22.6 (1.5)	73.4 (9.9)	1.76 (2.55)	321 (103)	128 (166)	97.3 (0.3)
6	21.5 (3.2)	61.1 (14.3)	0.20 (0.20)	337 (131)	237 (307)	97.8 (0.1)
7	20.1 (1.9)	63.4 (13.8)	0.33 (0.32)	272 (43)	206 (291)	98.1 (0.1)
8	19.8 (3.2)	67.8 (11.7)	0.23 (0.25)	218 (98)	134 (192)	
9	17.4 (3.1)	64.9 (17.5)	0.29 (0.24)	358 (164)	223 (294)	
10	17.5 (4.6)	56.6 (16.6)	0.27 (0.23)	100 (38)	231 (292)	
11	20.4 (6.1)	61.8 (16.7)	0.25 (0.18)	143 (36)	186 (271)	98.3 (0.2)
12	22.8 (0.6)	85.4 (2.4)	2.04 (2.11)	221 (28)	57 (70)	97.8 (0.1)
13	26.5 (3.0)	70.9 (13.8)	1.83 (0.93)	196 (45)	145 (210)	97.2 (0.2)
14	22.6 (3.6)	79.0 (7.2)	1.23 (1.56)	228 (61)	39 (36)	96.5 (0.6)
15	18.9 (2.4)	72.7 (11.6)	0.47 (0.31)	323 (94)	143 (216)	98.0 (0.3)
16	19.4 (3.2)	61.9 (15.5)	0.11 (0.10)	330 (131)	219 (275)	98.5 (0.1)
17	20.8 (4.9)	58.8 (12.9)	0.34 (0.30)	261 (72)	234 (281)	98.5 (0.1)
18	19.5 (3.6)	60.8 (17.7)	0.31 (0.29)	76 (54)	229 (284)	
19	19.6 (5.9)	56.4 (19.0)	0.09 (0.06)	114 (39)	206 (252)	98.6 (0.2)
20	22.6 (4.2)	55.2 (11.7)	0.08 (0.06)	201 (94)	177 (216)	98.4 (0.1)
21	22.8 (4.1)	59.9 (15.9)	0.18 (0.16)	72 (81)	206 (270)	98.7 (0.1)
22	21.2 (4.7)	65.6 (17.8)	0.34 (0.17)	91 (21)	206 (258)	99.0 (0.1)
23	21.4 (6.0)	55.5 (23.7)	0.18 (0.13)	113 (28)	217 (266)	99.0 (0.2)
24	23.0 (5.5)	48.8 (15.6)	0.10 (0.07)	121 (68)	206 (254)	98.8 (0.1)
25	22.3 (4.8)	47.0 (15.7)	0.16 (0.15)	92 (41)	209 (256)	98.8 (0.1)
26	20.5 (4.6)	53.4 (22.1)	0.37 (0.35)	51 (30)	213 (268)	98.3 (0.2)
27	21.6 (4.3)	57.1 (18.7)	0.27 (0.26)	20 (134)	212 (262)	97.9 (0.1)
28	21.1 (4.7)	62.7 (17.1)	0.14 (0.12)	2 (147)	179 (237)	98.2 (0.1)
29	18.8 (3.7)	73.3 (13.4)	0.47 (0.45)	314 (101)	105 (154)	97.8 (0.2)
30	15.0 (1.7)	73.8 (15.0)	0.68 (0.67)	293 (34)	105 (154)	97.5 (0.1)
Avg	21.4	62.7	0.48	50.0	181	98.1
n	30	30	30	30	30	26
SD	2.7	9.6	0.52	108.0	59	0.6
Min	15.0	42.7	0.08	2.0	39	96.5
Max	27.1	85.4	2.04	358.0	275	99.0

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Table F1. Daily means (SD) of weather parameters at site IN2B for October, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	12.7 (2.2)	70.6 (13.6)	0.65 (0.55)	322 (73)	115 (162)	97.5 (0.1)
2	12.7 (3.0)	62.6 (16.5)	0.69 (0.62)	270 (27)	158 (226)	97.5 (0.1)
3	12.7 (1.6)	69.0 (4.2)	0.13 (0.11)	44 (88)	46 (59)	97.9 (0.3)
4						98.5 (0.1)
5	13.6 (5.8)	54.5 (17.9)	0.16 (0.13)	86 (29)	135 (190)	98.7 (0.1)
6	16.0 (3.5)	56.7 (13.4)	0.82 (0.37)	95 (9)	118 (153)	98.8 (0.1)
7	16.6 (4.9)	64.0 (16.7)	0.67 (0.41)	117 (30)	100 (136)	98.2 (0.4)
8	16.5 (2.7)	82.8 (3.7)	1.99 (1.76)	230 (48)	51 (89)	97.4 (0.2)
9	15.6 (5.4)	61.6 (27.7)	0.30 (0.23)	307 (109)	190 (242)	98.0 (0.2)
10	16.5 (5.9)	39.5 (18.6)	0.25 (0.24)	110 (21)	188 (240)	98.5 (0.1)
11	20.4 (6.9)	49.7 (10.9)	0.22 (0.20)	131 (32)	156 (213)	98.8 (0.1)
12	21.9 (6.2)	48.9 (19.0)	0.20 (0.25)	137 (32)	178 (229)	98.9 (0.1)
13	23.7 (3.9)	46.6 (7.7)	0.30 (0.27)	190 (29)	144 (189)	98.8 (0.2)
14	20.2 (1.9)	59.4 (12.7)	0.31 (0.32)	311 (118)	97 (138)	98.5 (0.1)
15	18.4 (3.9)	76.0 (9.4)	0.42 (0.55)	181 (85)	69 (121)	98.0 (0.3)
16	14.0 (1.5)	65.3 (14.9)	0.37 (0.29)	352 (149)	138 (207)	98.4 (0.2)
17	13.1 (1.9)	59.3 (12.9)	0.11 (0.11)	69 (68)	110 (182)	98.6 (0.1)
18	12.1 (3.2)	56.8 (14.7)	0.13 (0.15)	64 (77)	149 (218)	98.8 (0.1)
19	11.4 (4.9)	55.0 (17.0)	0.19 (0.18)	162 (19)	164 (217)	98.9 (0.2)
20	12.9 (4.3)	59.5 (15.3)	0.60 (0.57)	238 (82)	143 (204)	98.4 (0.2)
21	9.1 (3.5)	57.6 (18.1)	0.28 (0.32)	0 (159)	168 (225)	98.9 (0.1)
22	6.1 (3.8)	59.3 (14.2)	0.55 (0.47)	93 (17)	166 (223)	99.2 (0.1)
23	8.5 (5.4)	55.2 (19.1)	0.83 (0.33)	104 (8)	147 (212)	98.9 (0.2)
24	10.8 (1.0)	78.2 (16.1)	0.43 (0.28)	152 (26)	11 (21)	97.9 (0.3)
25	7.6 (0.9)	83.5 (7.2)	0.91 (0.56)	223 (11)	51 (84)	97.3 (0.1)
26	9.3 (3.3)	59.9 (16.1)	2.18 (1.28)	254 (28)	117 (201)	97.1 (0.3)
27	4.4 (1.6)	76.0 (9.0)	1.55 (0.72)	300 (37)	71 (128)	98.2 (0.3)
28	2.9 (1.5)	79.8 (14.9)	0.74 (0.70)	301 (28)	41 (64)	98.6 (0.2)
29	4.8 (3.4)	64.1 (12.0)	0.73 (0.62)	298 (37)	133 (195)	98.2 (0.3)
30	8.3 (6.1)	62.4 (24.4)	0.21 (0.19)	182 (44)	146 (196)	99.1 (0.1)
31	15.0 (4.8)	53.8 (6.9)	0.53 (0.31)	220 (13)	137 (187)	99.0 (0.1)
Avg	12.9	62.3	0.58	171.0	121	98.4
n	30	30	30	30	30	31
SD	5.1	10.7	0.51	95.0	47	0.6
Min	2.9	39.5	0.11	0.0	11	97.1
Max	23.7	83.5	2.18	352.0	190	99.2

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Table F1. Daily means (SD) of weather parameters at site IN2B for November, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	15.1 (3.7)	63.1 (7.1)	0.20 (0.15)	308 (103)	117 (171)	98.8 (0.1)
2	14.5 (4.9)	65.0 (10.6)	0.53 (0.37)	133 (35)	118 (168)	98.7 (0.2)
3	18.5 (3.0)	51.2 (9.6)	0.34 (0.29)	207 (23)	124 (173)	98.5 (0.1)
4	17.3 (4.1)	47.9 (11.4)	0.24 (0.21)	187 (28)	132 (176)	98.4 (0.2)
5	17.0 (4.9)	48.5 (12.0)	0.29 (0.24)	163 (18)	131 (180)	98.0 (0.2)
6	17.5 (4.8)	51.3 (14.2)	0.67 (0.62)	160 (23)	110 (159)	97.5 (0.2)
7	12.3 (3.9)	60.9 (17.6)	1.11 (0.83)	235 (22)	144 (188)	97.0 (0.2)
8	4.3 (1.2)	74.2 (12.5)	1.83 (0.67)	247 (13)	34 (51)	96.7 (0.1)
9	2.3 (0.8)	85.8 (8.3)	1.22 (0.42)	262 (11)	25 (30)	97.4 (0.3)
10	0.3 (1.6)	68.2 (6.9)	0.41 (0.41)	255 (61)	85 (145)	98.4 (0.2)
11	1.2 (3.1)	75.9 (9.0)	0.22 (0.20)	124 (20)	45 (64)	98.7 (0.2)
12	8.3 (3.6)	81.7 (8.9)	0.45 (0.33)	138 (21)	30 (54)	97.9 (0.3)
13						97.0 (0.2)
14	11.5 (1.2)	88.5 (8.6)	0.73 (0.37)	231 (68)	9 (22)	96.7 (0.1)
15	4.9 (1.2)	78.9 (4.9)	1.62 (0.74)	336 (114)	15 (31)	96.9 (0.3)
16	1.5 (0.5)	77.3 (8.6)	1.52 (0.90)	261 (14)	70 (130)	97.6 (0.1)
17	0.3 (1.1)	86.9 (9.4)	0.84 (0.74)	317 (28)	32 (59)	98.3 (0.3)
18	-2.7 (1.9)	84.6 (14.3)	0.14 (0.13)	308 (82)	98 (171)	99.1 (0.2)
19	1.5 (2.7)	70.9 (8.1)	0.67 (0.57)	208 (50)	65 (127)	
20	1.0 (2.2)	75.8 (11.6)	1.80 (0.73)	326 (42)	38 (83)	98.2 (0.2)
21	-4.0 (1.2)	79.4 (8.4)	0.68 (0.39)	300 (31)	70 (124)	99.1 (0.3)
22	-4.1 (2.5)	74.1 (6.8)	0.23 (0.16)	203 (44)	48 (91)	99.4 (0.2)
23	-0.4 (4.4)	66.0 (12.9)	0.27 (0.24)	182 (24)	100 (158)	98.7 (0.3)
24	2.2 (1.1)	85.2 (11.5)	0.82 (0.65)	237 (57)	8 (23)	97.3 (0.3)
25	1.4 (0.9)	78.7 (9.5)	1.51 (0.92)	298 (15)	52 (104)	97.6 (0.3)
26	1.4 (2.1)	73.7 (12.0)	0.40 (0.28)	250 (22)	100 (159)	97.8 (0.1)
27	2.4 (3.0)	73.9 (9.8)	0.61 (0.59)	239 (31)	90 (147)	97.5 (0.2)
28	1.6 (2.2)	73.3 (9.6)	0.81 (0.38)	259 (16)	101 (161)	97.5 (0.1)
29	2.4 (3.5)	67.4 (15.0)	0.13 (0.12)	170 (66)	87 (142)	97.2 (0.3)
30	0.9 (0.8)	89.1 (14.7)	0.66 (0.49)	112 (59)	17 (32)	95.5 (0.5)
Avg	5.2	72.3	0.72	232.0	72	97.8
n	29	29	29	29	29	29
SD	6.9	11.7	0.51	63.0	41	0.9
Min	-4.1	47.9	0.13	112.0	8	95.5
Max	18.5	89.1	1.83	336.0	144	99.4

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Table F1. Daily means (SD) of weather parameters at site IN2B for December, 2008.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	-0.6 (1.8)	95.9 (4.6)	1.59 (0.87)	263 (29)	45 (78)	96.0 (0.8)
2						97.8 (0.1)
3	2.0 (1.5)	83.0 (10.6)	0.72 (0.27)	214 (25)	40 (81)	97.4 (0.2)
4	-4.1 (2.1)	79.4 (7.8)	1.36 (0.77)	296 (20)	76 (140)	98.5 (0.4)
5	-9.3 (1.0)	80.7 (6.7)	1.04 (0.60)	244 (20)	65 (118)	98.7 (0.3)
6	-4.3 (1.9)	87.6 (7.6)	1.76 (0.99)	240 (49)	20 (35)	97.2 (0.4)
7	-7.2 (2.3)	80.8 (5.6)	0.61 (0.42)	242 (56)	97 (156)	98.3 (0.2)
8	-0.9 (2.9)	75.3 (3.2)	0.44 (0.22)	143 (12)	36 (55)	
9	6.3 (1.9)	86.8 (15.5)	0.85 (0.44)	214 (69)	5 (10)	
10	-0.9 (1.3)	84.6 (5.7)	0.90 (0.71)	16 (144)	46 (82)	
11	-2.7 (2.0)	89.6 (6.7)	0.35 (0.43)	343 (110)	50 (84)	97.7 (0.3)
12	-4.3 (2.6)	78.9 (6.4)	0.91 (0.61)	286 (37)	55 (101)	97.9 (0.3)
13	-0.9 (5.0)	72.3 (12.5)	0.81 (0.61)	180 (17)	28 (53)	98.1 (0.3)
14	6.8 (2.7)	72.5 (8.9)	1.15 (0.43)	195 (10)	7 (19)	97.4 (0.2)
15	-4.5 (7.7)	84.9 (3.6)	2.14 (1.17)	270 (28)	38 (77)	98.6 (0.9)
16						98.9 (1.3)
17	-5.5 (1.2)	97.8 (0.7)	0.71 (0.57)	256 (37)	40 (75)	98.3 (0.4)
18	-6.5 (1.4)	96.3 (0.9)	0.09 (0.09)	100 (96)	55 (97)	98.6 (0.1)
19						97.2 (0.6)
20						97.6 (0.4)
21						97.5 (0.5)
22						99.0 (0.3)
23	-3.7 (4.3)	89.7 (6.7)	0.89 (0.79)	169 (18)		98.3 (0.6)
24	1.7 (5.1)	91.1 (9.0)	2.29 (1.64)	222 (41)	17 (26)	97.3 (0.6)
25	-7.9 (3.0)	81.1 (4.4)	0.48 (0.56)	226 (77)	96 (148)	99.0 (0.2)
26	3.3 (5.4)	90.2 (8.7)	0.68 (0.34)	147 (29)	14 (24)	98.0 (0.3)
27	15.9 (2.2)	86.7 (8.0)	1.52 (0.65)	193 (27)	38 (73)	97.1 (0.3)
28	1.7 (4.0)	79.8 (5.1)	3.00 (2.33)	241 (20)	52 (96)	97.7 (0.6)
29	2.5 (2.2)	75.4 (7.8)	1.14 (0.95)	241 (32)	94 (143)	97.8 (0.3)
30	2.4 (2.6)	77.1 (11.3)	0.78 (0.95)	202 (62)	89 (143)	97.4 (0.7)
31	-4.5 (2.4)	76.0 (6.0)	1.89 (1.24)	324 (58)	56 (95)	98.4 (0.7)
Avg	-1.0	83.7	1.12	230.0	48	97.9
n	25	25	25	25	24	28
SD	5.4	7.2	0.67	69.0	27	0.7
Min	-9.3	72.3	0.09	16.0	5	96.0
Max	15.9	97.8	3.00	343.0	97	99.0

ED_001509B_00005068-00074

Table F1. Daily means (SD) of weather parameters at site IN2B for January, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	-3.0 (3.6)	71.4 (12.8)	0.95 (0.57)	170 (30)	44 (70)	98.0 (0.7)
2	-0.7 (1.6)	69.0 (8.1)	1.05 (0.77)	271 (65)	58 (91)	97.3 (0.3)
3	-2.2 (3.1)	71.1 (8.7)	1.30 (0.88)	98 (11)	69 (119)	97.8 (0.1)
4	1.8 (1.8)	88.3 (8.7)	1.35 (0.82)	0 (98)	15 (22)	97.7 (0.4)
5	-3.7 (1.6)	72.1 (6.9)	0.44 (0.47)	268 (75)	100 (156)	98.2 (0.3)
6	-2.8 (1.4)	87.4 (9.1)	0.64 (0.53)	97 (15)	18 (29)	96.6 (0.5)
7	-2.4 (2.0)	93.2 (7.2)	1.59 (1.17)	256 (55)	25 (44)	95.4 (0.3)
8	-8.5 (1.5)	86.7 (2.4)	1.35 (0.66)	267 (16)	49 (75)	96.9 (0.5)
9	-4.8 (2.6)	91.0 (5.2)	0.66 (0.50)	145 (58)	52 (98)	97.8 (0.1)
10	-2.8 (1.1)	91.6 (5.8)	1.00 (0.44)	41 (130)	23 (36)	97.6 (0.2)
11	-4.3 (0.7)	92.1 (5.4)	0.29 (0.20)	260 (45)	58 (89)	98.0 (0.1)
12	-3.1 (2.0)	88.0 (3.2)	0.34 (0.27)	215 (68)	55 (83)	98.0 (0.3)
13	-6.3 (6.0)	86.6 (7.3)	1.85 (1.11)	277 (35)	82 (126)	97.7 (0.5)
14	-12.8 (2.4)	87.9 (1.4)	0.55 (0.42)	88 (102)	60 (81)	97.9 (0.4)
15	-18.4 (2.4)	82.8 (2.3)	1.23 (0.51)	262 (11)		99.2 (0.4)
16						99.7 (0.2)
17						97.6 (0.9)
18						96.8 (0.1)
19	-9.4 (2.4)	84.3 (9.6)	0.38 (0.33)	294 (35)	106 (170)	96.9 (0.1)
20	-11.1 (1.9)	83.9 (7.3)	0.30 (0.20)	314 (80)	103 (163)	97.6 (0.3)
21	-7.5 (4.4)	81.6 (7.6)	0.79 (0.39)	228 (12)	102 (160)	97.6 (0.2)
22	-1.3 (2.6)	79.8 (6.3)	0.62 (0.41)	220 (32)	115 (174)	97.3 (0.1)
23	0.4 (1.9)	77.7 (4.1)	1.42 (0.95)	269 (55)	96 (166)	97.3 (0.5)
24	-7.9 (2.7)	79.2 (5.6)	0.77 (0.63)	307 (29)	83 (137)	98.8 (0.2)
25	-12.9 (2.0)	77.6 (6.6)	0.37 (0.23)	264 (19)	76 (120)	98.8 (0.1)
26	-9.4 (2.4)	76.6 (6.2)	0.12 (0.07)	294 (58)	66 (101)	99.0 (0.1)
27	-7.6 (1.1)	81.0 (7.7)	0.33 (0.27)	56 (100)	37 (60)	98.7 (0.4)
28	-7.7 (1.9)	90.8 (3.8)	0.75 (0.42)	311 (119)	95 (159)	97.4 (0.2)
29	-5.9 (2.7)	89.4 (4.3)	1.89 (0.85)	236 (16)	65 (101)	97.4 (0.1)
30	-10.4 (2.0)	78.6 (5.8)	1.02 (0.45)	265 (11)	139 (196)	97.7 (0.2)
31	-7.5 (6.8)	79.7 (7.2)	0.92 (0.64)	215 (19)	110 (169)	97.5 (0.5)
Avg	-6.2	82.8	0.87	264.0	70	97.8
n	28	28	28	28	27	31
SD	4.5	6.8	0.48	88.0	32	0.8
Min	-18.4	69.0	0.12	0.0	15	95.4
Max	1.8	93.2	1.89	314.0	139	99.7

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Table F1. Daily means (SD) of weather parameters at site IN2B for February, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	2.4 (1.7)	72.2 (7.1)	0.98 (0.91)	250 (9)	115 (178)	97.3 (0.3)
2	-3.9 (1.9)	80.2 (8.3)	0.78 (0.53)	252 (14)	121 (182)	97.7 (0.1)
3	-8.2 (1.5)	82.7 (6.8)	0.57 (0.48)	309 (65)	109 (164)	
4	-10.5 (2.2)	83.1 (6.2)	0.47 (0.40)	305 (72)	121 (176)	98.9 (0.3)
5	-10.0 (4.4)	75.9 (11.1)	0.47 (0.35)	200 (33)	136 (196)	98.9 (0.4)
6	-1.0 (6.2)	69.7 (7.0)	0.26 (0.22)	161 (22)	135 (198)	98.1 (0.2)
7	9.0 (1.7)	82.7 (4.6)	1.53 (0.64)	226 (12)	76 (122)	97.6 (0.2)
8	3.6 (2.2)	83.1 (6.7)	0.29 (0.32)	315 (100)	57 (80)	98.6 (0.3)
9	4.4 (4.5)	87.8 (8.0)	0.42 (0.33)	130 (17)	71 (105)	98.2 (0.5)
10	13.3 (1.5)	79.6 (4.8)	0.88 (0.55)	198 (19)	93 (145)	97.2 (0.1)
11	11.7 (3.7)	88.1 (5.1)	2.07 (2.26)	180 (53)	17 (41)	96.1 (0.7)
12	3.2 (1.8)	74.2 (8.1)	2.64 (1.27)	277 (17)	140 (208)	97.6 (0.4)
13	2.1 (2.6)	73.3 (9.0)	0.30 (0.24)	308 (115)	152 (219)	98.1 (0.1)
14	1.0 (1.0)	81.2 (9.3)	0.67 (0.53)	352 (141)	56 (97)	97.9 (0.3)
15	-1.1 (1.9)	75.7 (12.0)	0.25 (0.24)	327 (102)	107 (180)	98.5 (0.1)
16	-1.9 (2.0)	74.0 (13.1)	0.23 (0.15)	315 (104)	124 (204)	98.9 (0.1)
17	1.7 (3.8)	66.8 (10.7)	0.68 (0.42)	169 (18)	117 (184)	97.8 (0.6)
18	4.7 (2.4)	85.1 (9.6)	1.02 (0.95)	251 (63)	15 (36)	95.9 (0.4)
19	-7.2 (1.7)	76.6 (7.0)	2.45 (1.13)	302 (22)	135 (191)	97.4 (0.4)
20	-6.4 (2.4)	71.5 (8.6)	0.61 (0.47)	251 (46)	156 (216)	98.0 (0.1)
21	-3.5 (2.4)	85.1 (8.4)	2.06 (1.52)	200 (55)	50 (77)	97.4 (0.3)
22	-6.1 (1.9)	80.0 (6.5)	1.33 (0.73)	277 (21)	150 (218)	98.5 (0.5)
23	-6.9 (3.6)	81.7 (7.1)	0.14 (0.11)	252 (60)	154 (226)	99.3 (0.1)
24	-2.0 (4.1)	75.7 (12.3)	0.41 (0.40)	149 (10)	165 (231)	98.9 (0.3)
25	6.1 (5.5)	65.1 (9.6)	0.38 (0.27)	188 (32)	120 (182)	98.1 (0.2)
26	8.9 (2.6)	91.6 (7.9)	1.08 (1.02)	164 (53)	31 (62)	97.5 (0.7)
27	2.8 (5.6)	83.7 (5.7)	2.10 (1.16)	321 (98)	35 (63)	97.4 (0.9)
28	-2.8 (1.6)	71.6 (6.4)	1.02 (0.71)	52 (39)	130 (206)	98.6 (0.1)
Avg	0.1	78.5	0.93	250.0	103	97.9
n	28	28	28	28	28	27
SD	6.3	6.5	0.71	71.0	44	0.8
Min	-10.5	65.1	0.14	52.0	15	95.9
Max	13.3	91.6	2.64	352.0	165	99.3

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Table F1. Daily means (SD) of weather parameters at site IN2B for March, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	-4.0 (1.8)	69.8 (11.9)	1.06 (0.76)	10 (159)	166 (243)	98.8 (0.2)
2	-7.1 (2.7)	63.1 (9.5)	0.57 (0.46)	20 (123)	194 (261)	99.2 (0.1)
3	-5.4 (3.4)	62.0 (12.6)	0.07 (0.06)	129 (86)	184 (253)	99.2 (0.1)
4	1.5 (4.5)	54.7 (13.6)	0.26 (0.18)	159 (23)	157 (227)	98.7 (0.2)
5	11.6 (5.6)	54.3 (7.7)	1.22 (0.76)	189 (28)	121 (202)	97.6 (0.4)
6	15.5 (2.0)	71.2 (6.0)	1.07 (0.66)	232 (65)	79 (129)	97.4 (0.2)
7	14.6 (3.3)	74.0 (9.8)	0.56 (0.58)	172 (88)	59 (118)	97.4 (0.3)
8	9.4 (2.9)	88.3 (12.5)	2.21 (1.83)	90 (92)	33 (81)	96.9 (0.4)
9	5.1 (2.3)	79.0 (5.9)	0.93 (1.14)	58 (112)	88 (124)	98.2 (0.3)
10	12.3 (5.4)	86.0 (5.9)	0.95 (0.66)	157 (67)	61 (124)	97.2 (0.4)
11	0.3 (3.3)	71.6 (5.4)	2.77 (1.16)	283 (16)	173 (229)	98.5 (0.7)
12	-1.9 (1.9)	64.7 (4.9)	0.50 (0.46)	6 (152)	144 (197)	99.6 (0.1)
13	0.1 (4.1)	67.7 (12.6)	0.20 (0.21)	87 (59)	212 (271)	99.0 (0.2)
14	4.2 (3.9)	61.1 (14.1)	0.14 (0.12)	99 (27)	168 (224)	98.3 (0.2)
15	8.0 (4.7)	52.2 (14.8)	0.30 (0.26)	92 (17)	216 (276)	98.1 (0.1)
16	11.4 (6.2)	50.1 (9.3)	0.14 (0.13)	114 (69)	185 (252)	98.2 (0.1)
17	15.0 (4.7)	56.9 (14.3)	0.87 (0.80)	208 (32)	210 (265)	98.1 (0.2)
18	12.9 (2.6)	64.6 (8.0)	0.49 (0.41)	293 (105)	127 (207)	98.0 (0.1)
19	6.0 (3.3)	49.4 (13.1)	1.00 (0.89)	342 (105)	236 (295)	98.6 (0.2)
20	1.2 (3.8)	58.5 (13.2)	0.26 (0.23)	78 (90)	221 (285)	99.1 (0.1)
21	7.6 (5.9)	53.7 (15.0)	0.20 (0.16)	151 (58)	203 (272)	99.0 (0.1)
22	10.8 (5.4)	49.0 (14.1)	0.40 (0.64)	129 (34)		98.9 (0.1)
23	6.2 (4.3)	54.6 (16.8)	2.15 (0.57)	102 (7)	170 (233)	98.7 (0.2)
24	11.8 (6.4)	40.2 (9.3)	1.55 (0.66)	125 (16)	127 (181)	97.8 (0.4)
25	13.2 (3.3)	69.9 (15.0)	1.44 (0.99)	234 (54)	142 (213)	97.0 (0.1)
26	10.0 (3.3)	60.4 (12.6)	0.25 (0.28)	333 (109)	171 (260)	97.4 (0.1)
27	11.3 (4.5)	59.6 (12.1)	0.23 (0.40)	78 (109)	156 (209)	97.4 (0.1)
28	6.9 (3.7)	67.8 (13.1)	1.84 (1.57)	59 (43)	105 (159)	96.6 (0.7)
29	3.4 (1.7)	86.9 (7.0)	2.32 (1.42)	265 (68)	48 (65)	95.9 (0.7)
30	5.8 (4.3)	66.9 (18.4)	0.33 (0.30)	273 (88)	246 (301)	97.7 (0.2)
31	9.1 (2.7)	67.1 (7.8)	1.08 (0.55)	137 (42)	49 (61)	97.0 (0.4)
Avg	6.7	63.7	0.88	113.0	148	98.0
n	31	31	31	31	30	31
SD	6.1	11.3	0.73	92.0	60	0.9
Min	-7.1	40.2	0.07	6.0	33	95.9
Max	15.5	88.3	2.77	342.0	246	99.6

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Table F1. Daily means (SD) of weather parameters at site IN2B for April, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	9.0 (3.0)	55.7 (15.5)	1.48 (1.44)	227 (27)	254 (309)	97.0 (0.2)
2	13.7 (3.7)	50.2 (17.1)	0.76 (0.67)	115 (59)	151 (209)	96.5 (0.7)
3	6.4 (2.1)	79.6 (12.5)	2.30 (1.70)	330 (96)	109 (156)	96.1 (0.8)
4	6.1 (3.9)	62.2 (13.6)	0.39 (0.36)	325 (123)	258 (314)	97.6 (0.2)
5	6.2 (1.1)	82.0 (13.4)	0.90 (0.69)	73 (34)	31 (50)	96.8 (0.6)
6	2.2 (1.5)	78.9 (16.4)	2.12 (0.99)	340 (101)	134 (181)	96.6 (0.3)
7	2.5 (2.5)	56.6 (14.1)	1.89 (1.24)	311 (33)	180 (246)	96.8 (0.1)
8	6.0 (4.0)	54.7 (17.3)	0.61 (0.49)	249 (24)	252 (322)	96.7 (0.1)
9	10.0 (4.0)	47.1 (17.1)	0.25 (0.19)	252 (75)	253 (318)	97.1 (0.1)
10	7.5 (1.0)	63.4 (14.1)	0.93 (0.65)	50 (45)	52 (66)	97.3 (0.2)
11	7.4 (4.1)	51.3 (15.2)	0.59 (0.32)	7 (161)	275 (325)	98.4 (0.3)
12	6.9 (3.9)	49.2 (13.8)	0.85 (0.75)	89 (34)	268 (330)	98.6 (0.2)
13	3.7 (1.0)	75.2 (19.2)	2.13 (0.67)	91 (7)	30 (40)	97.3 (0.4)
14	6.6 (0.9)	92.9 (5.1)	0.63 (0.32)	25 (145)	35 (45)	96.9 (0.3)
15	8.9 (3.0)	78.1 (7.8)	0.38 (0.30)	24 (143)	78 (105)	98.0 (0.4)
16	12.4 (4.8)	52.6 (18.9)	0.20 (0.19)	85 (40)	290 (335)	98.9 (0.1)
17	15.8 (5.8)	41.3 (14.5)	0.07 (0.07)	113 (72)	290 (335)	98.8 (0.2)
18	18.6 (4.5)	43.2 (8.2)	0.09 (0.13)	168 (70)	198 (263)	98.0 (0.3)
19	13.7 (3.1)	76.6 (14.2)	0.74 (0.56)	71 (81)	57 (75)	97.1 (0.4)
20	8.7 (1.6)	87.4 (10.7)	1.07 (0.74)	295 (86)	75 (142)	96.3 (0.2)
21	5.6 (0.9)	82.5 (3.4)	1.52 (0.83)	264 (28)	122 (175)	96.4 (0.2)
22	9.0 (4.4)	61.1 (18.7)	1.07 (0.92)	294 (59)	247 (317)	97.1 (0.2)
23	12.6 (5.0)	47.5 (13.3)	0.48 (0.42)	135 (78)	263 (316)	97.9 (0.2)
24	22.3 (4.4)	44.4 (10.8)	1.68 (0.86)	209 (27)	260 (317)	97.4 (0.1)
25	24.1 (2.9)	46.6 (6.4)	1.86 (1.08)	222 (8)	231 (282)	97.9 (0.1)
26	25.1 (2.9)	44.7 (10.0)	1.27 (1.08)	208 (16)	247 (282)	98.1 (0.1)
27	23.3 (2.3)	51.0 (13.1)	1.50 (1.18)	218 (27)	151 (197)	98.1 (0.1)
28	15.1 (3.3)	84.6 (4.0)	0.90 (0.45)	53 (108)	53 (66)	98.6 (0.3)
29	11.1 (1.8)	87.9 (5.2)	1.01 (0.49)	93 (8)	63 (74)	98.7 (0.2)
30						97.5 (0.4)
Avg	11.1	63.1	1.02	39.0	169	97.5
n	29	29	29	29	29	30
SD	6.4	16.2	0.63	104.0	92	0.8
Min	2.2	41.3	0.07	7.0	30	96.1
Max	25.1	92.9	2.30	340.0	290	98.9

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Table F1. Daily means (SD) of weather parameters at site IN2B for May, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	15.6 (2.5)	74.4 (13.0)	0.61 (0.47)	300 (68)	126 (166)	97.5 (0.2)
2						97.6 (0.1)
3						97.5 (0.1)
4						97.8 (0.1)
5						97.7 (0.2)
6	16.1 (2.5)	73.2 (6.9)	0.31 (0.34)	137 (30)	81 (88)	97.2 (0.2)
7	17.9 (3.7)	75.9 (17.5)	0.65 (0.75)	224 (37)	150 (240)	97.0 (0.1)
8	20.1 (1.7)	73.4 (5.7)	0.16 (0.19)	240 (60)	120 (144)	96.8 (0.1)
9	15.0 (2.0)	68.7 (10.3)	2.01 (1.51)	287 (54)	213 (277)	97.2 (0.5)
10	13.1 (3.8)	68.7 (21.5)	0.39 (0.46)	295 (97)	223 (287)	98.1 (0.1)
11	14.0 (3.6)	54.6 (20.8)	0.43 (0.39)	351 (149)	275 (337)	98.2 (0.1)
12	15.3 (5.2)	42.0 (16.0)	0.21 (0.25)	140 (71)	308 (347)	98.3 (0.2)
13	16.7 (3.2)	72.9 (10.0)	0.84 (0.61)	166 (28)	54 (69)	97.4 (0.4)
14	19.1 (1.5)	61.6 (18.7)	1.60 (1.40)	250 (31)	299 (344)	97.6 (0.6)
15	17.4 (3.6)	69.4 (14.6)	0.37 (0.41)	91 (64)	121 (179)	98.1 (0.4)
16	15.5 (2.6)	77.4 (20.8)	0.93 (0.82)	306 (90)	160 (253)	97.8 (0.4)
17	11.9 (3.9)	44.0 (17.5)	0.52 (0.50)	341 (132)	315 (341)	98.8 (0.1)
18	15.4 (5.4)	40.6 (16.4)	0.23 (0.23)	148 (87)	328 (357)	98.9 (0.1)
19	20.0 (4.6)	37.9 (9.0)	0.44 (0.37)	199 (23)	315 (344)	98.8 (0.1)
20	23.5 (4.8)	34.6 (12.4)	0.42 (0.33)	190 (20)	325 (349)	98.6 (0.2)
21	24.5 (4.1)	41.8 (8.0)	0.58 (0.49)	220 (30)	321 (347)	98.4 (0.1)
22	24.5 (3.0)	49.2 (9.4)	0.48 (0.25)	95 (89)	271 (329)	98.4 (0.1)
23	23.0 (5.7)	51.5 (13.7)	0.25 (0.19)	65 (112)	235 (282)	98.1 (0.1)
24	24.6 (3.8)	53.5 (11.7)	0.43 (0.35)	59 (78)	249 (289)	98.0 (0.1)
25	19.5 (2.9)	42.4 (12.1)	1.32 (0.53)	84 (10)	141 (207)	97.9 (0.1)
26	22.9 (5.0)	55.9 (12.9)	0.66 (0.40)	108 (54)	223 (305)	97.4 (0.2)
27	25.6 (2.7)	65.5 (12.7)	0.85 (0.69)	213 (50)	235 (294)	97.0 (0.1)
28	17.9 (2.4)	76.6 (5.5)	0.69 (0.38)	299 (28)	94 (144)	97.0 (0.1)
29	18.6 (5.5)	64.5 (22.0)	0.59 (0.54)	296 (73)	269 (329)	97.4 (0.1)
30	20.7 (4.7)	46.8 (17.1)	0.20 (0.20)	228 (42)	206 (257)	97.2 (0.2)
31	20.3 (3.2)	41.4 (14.3)	0.22 (0.19)	26 (123)	329 (353)	97.6 (0.2)
Avg	18.8	57.7	0.61	220.0	222	97.8
n	27	27	27	27	27	31
SD	3.8	13.9	0.43	92.0	85	0.6
Min	11.9	34.6	0.16	26.0	54	96.8
Max	25.6	77.4	2.01	351.0	329	98.9

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Table F1. Daily means (SD) of weather parameters at site IN2B for June, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	22.1 (4.3)	61.6 (14.2)	0.41 (0.44)	187 (72)	161 (228)	97.5 (0.1)
2						97.9 (0.1)
3	16.6 (1.8)	77.3 (9.3)	0.19 (0.15)	85 (66)	110 (133)	98.0 (0.1)
4	18.1 (3.3)	58.7 (17.6)	0.19 (0.21)	63 (85)	301 (327)	97.9 (0.1)
5	20.4 (4.0)	43.3 (13.8)	0.17 (0.24)	309 (108)	338 (356)	97.5 (0.1)
6	23.0 (4.3)	47.4 (9.8)	0.28 (0.21)	214 (34)	253 (292)	97.6 (0.1)
7	24.8 (2.4)	52.7 (5.6)	0.25 (0.24)	188 (41)	181 (207)	97.5 (0.1)
8	24.5 (2.0)	66.6 (9.5)	0.98 (0.99)	206 (45)	170 (214)	97.2 (0.1)
9	22.1 (2.0)	66.5 (7.2)	0.27 (0.19)	356 (153)	251 (300)	97.5 (0.1)
10	20.0 (2.8)	76.9 (5.7)	0.20 (0.11)	81 (47)	108 (148)	97.4 (0.1)
11	20.6 (1.1)	84.6 (5.3)	0.27 (0.18)	81 (76)	64 (75)	97.0 (0.1)
12	21.7 (2.8)	60.3 (15.4)	0.22 (0.18)	45 (92)	302 (346)	97.5 (0.1)
13	21.5 (3.0)	59.1 (13.2)	0.20 (0.22)	97 (34)	202 (249)	97.7 (0.0)
14	23.0 (4.4)	58.7 (13.4)	0.13 (0.09)	71 (70)	279 (324)	97.7 (0.1)
15						97.8 (0.1)
16	20.9 (1.8)	64.3 (14.4)	0.51 (0.31)	101 (22)	89 (96)	97.6 (0.2)
17	23.1 (2.5)	73.2 (7.2)	0.56 (0.59)	299 (90)	209 (263)	97.3 (0.1)
18	23.4 (4.5)	71.4 (14.4)	0.16 (0.19)	150 (82)	213 (296)	97.3 (0.1)
19	26.1 (2.8)	71.7 (9.7)	1.07 (0.80)	183 (78)	207 (274)	96.9 (0.2)
20						97.0 (0.2)
21	27.8 (2.7)	57.8 (10.7)	0.17 (0.14)	317 (114)	240 (273)	97.2 (0.1)
22	27.0 (2.7)	58.9 (11.6)	0.14 (0.11)	115 (40)	214 (239)	97.2 (0.1)
23	28.0 (3.6)	52.6 (14.6)	0.12 (0.11)	90 (92)	323 (345)	97.4 (0.1)
24	29.0 (3.5)	55.1 (10.1)	0.15 (0.15)	248 (59)	272 (322)	97.4 (0.1)
25	29.6 (3.9)	60.0 (15.8)	0.33 (0.39)	271 (64)	303 (337)	97.2 (0.2)
26	27.9 (3.6)	55.6 (20.3)	0.36 (0.31)	352 (146)	297 (332)	97.2 (0.1)
27	26.7 (4.3)	49.9 (13.4)	0.14 (0.12)	178 (97)	298 (328)	97.3 (0.1)
28	26.0 (1.9)	45.6 (15.1)	1.06 (0.94)	295 (48)	323 (354)	96.9 (0.1)
29	22.2 (2.8)	54.3 (13.9)	0.83 (0.79)	275 (35)	217 (296)	96.4 (0.1)
30						96.5 (0.1)
Avg	23.7	60.9	0.36	123.0	228	97.4
n	26	26	26	26	26	30
SD	3.4	10.1	0.29	97.0	76	0.4
Min	16.6	43.3	0.12	45.0	64	96.4
Max	29.6	84.6	1.07	356.0	338	98.0

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Table F1. Daily means (SD) of weather parameters at site IN2B for July, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	18.1 (1.7)	72.9 (6.4)	0.31 (0.33)	295 (29)	85 (115)	96.9 (0.2)
2	18.5 (2.7)	75.2 (13.4)	0.60 (0.44)	316 (42)	131 (189)	97.5 (0.2)
3						98.0 (0.1)
4						97.8 (0.2)
5						97.5 (0.1)
6						97.3 (0.1)
7	24.3 (2.8)	45.3 (14.7)	0.31 (0.35)	352 (151)	306 (349)	97.3 (0.1)
8	21.9 (2.4)	55.6 (8.8)	0.14 (0.15)	43 (132)	132 (174)	97.7 (0.1)
9	24.6 (3.4)	53.5 (12.7)	0.22 (0.23)	125 (43)	293 (341)	98.0 (0.1)
10	26.1 (4.3)	60.4 (11.4)	0.18 (0.19)	180 (57)	232 (255)	98.1 (0.1)
11	26.1 (1.8)	69.1 (12.0)	0.38 (0.39)	278 (86)	185 (256)	97.9 (0.1)
12	24.3 (2.1)	51.4 (17.3)	0.35 (0.39)	324 (80)	295 (337)	98.0 (0.1)
13	23.8 (3.2)	45.0 (10.6)	0.26 (0.34)	353 (131)	323 (349)	98.0 (0.1)
14	22.5 (4.1)	43.9 (12.4)	0.18 (0.19)	130 (73)	275 (312)	98.2 (0.1)
15	23.7 (3.7)	63.4 (6.0)	0.42 (0.28)	205 (50)	178 (226)	97.6 (0.2)
16	24.0 (3.3)	60.3 (18.3)	0.64 (0.66)	264 (55)	311 (339)	97.5 (0.1)
17	19.9 (2.1)	71.5 (17.3)	2.22 (2.30)	294 (57)	198 (280)	97.2 (0.1)
18	19.4 (2.8)	70.9 (16.4)	0.50 (0.72)	299 (57)	201 (266)	97.7 (0.2)
19	20.7 (3.4)	66.7 (13.7)	0.14 (0.30)	142 (98)	237 (321)	98.2 (0.1)
20	22.3 (4.0)	62.1 (17.3)	0.08 (0.09)	111 (75)	307 (351)	98.1 (0.1)
21	23.5 (3.9)	60.5 (13.6)	0.12 (0.12)	134 (44)	264 (318)	97.9 (0.1)
22	21.4 (1.4)	79.8 (6.2)	0.24 (0.19)	110 (78)	53 (59)	97.7 (0.1)
23	23.2 (2.5)	70.9 (12.5)	0.41 (0.27)	317 (75)	226 (317)	97.5 (0.0)
24						97.4 (0.1)
25	22.7 (2.5)	72.9 (14.6)	0.79 (0.50)	243 (40)	189 (262)	96.9 (0.1)
26	22.3 (3.2)	70.3 (12.6)	0.60 (0.49)	256 (22)	262 (315)	97.2 (0.1)
27	23.9 (3.7)	67.7 (15.1)	0.37 (0.26)	231 (17)	264 (300)	97.5 (0.1)
28	24.4 (2.3)	70.3 (8.7)	0.53 (0.44)	226 (57)	157 (217)	97.2 (0.1)
29	23.2 (2.4)	70.6 (15.9)	0.48 (0.37)	312 (106)		97.2 (0.1)
30	23.5 (3.2)	56.7 (11.2)	0.07 (0.06)	220 (81)	227 (270)	97.4 (0.1)
31	24.0 (2.9)	58.5 (12.8)	0.27 (0.25)	298 (72)	283 (331)	97.6 (0.2)
Avg	22.8	63.3	0.42	265.0	225	97.6
n	26	26	26	26	25	31
SD	2.0	9.6	0.41	85.0	72	0.4
Min	18.1	43.9	0.07	43.0	53	96.9
Max	26.1	79.8	2.22	353.0	323	98.2

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Table F1. Daily means (SD) of weather parameters at site IN2B for August, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	22.8 (2.4)	63.4 (10.1)	0.36 (0.34)	220 (46)	192 (240)	97.7 (0.1)
2	22.2 (2.4)	61.6 (18.0)	0.44 (0.28)	282 (45)	282 (330)	97.6 (0.1)
3	23.9 (3.9)	60.4 (9.6)	0.61 (0.48)	197 (17)	237 (264)	97.5 (0.1)
4	24.6 (2.5)	72.5 (8.4)	0.33 (0.33)	222 (57)	160 (184)	97.4 (0.1)
5	24.4 (2.8)	59.3 (15.6)	0.22 (0.16)	14 (144)	273 (328)	97.9 (0.1)
6	23.4 (3.9)	51.6 (12.3)	0.19 (0.16)	337 (125)	278 (317)	98.1 (0.1)
7	21.3 (3.1)	63.0 (10.7)	0.11 (0.10)	134 (59)	127 (176)	98.3 (0.1)
8	25.8 (4.2)	68.1 (6.7)	0.93 (0.69)	193 (32)	170 (207)	97.9 (0.2)
9	28.7 (3.2)	67.3 (11.4)	1.29 (0.74)	218 (13)	275 (309)	97.9 (0.1)
10	27.5 (2.6)	65.9 (12.8)	0.72 (0.47)	238 (28)	270 (314)	97.7 (0.1)
11	24.4 (2.2)	74.0 (10.0)	0.54 (1.31)	282 (90)	168 (238)	97.7 (0.1)
12	23.4 (3.1)	68.3 (11.9)	0.22 (0.15)	3 (159)	220 (284)	98.0 (0.1)
13	25.5 (3.3)	57.4 (14.1)	0.08 (0.08)	93 (72)	280 (323)	98.2 (0.1)
14	26.1 (3.4)	54.4 (13.1)	0.06 (0.05)	162 (80)	248 (300)	98.2 (0.1)
15	26.6 (3.7)	56.5 (14.1)	0.20 (0.18)	174 (30)	252 (300)	98.1 (0.1)
16	28.2 (3.9)	60.8 (15.5)	0.82 (0.69)	191 (35)	247 (298)	98.0 (0.1)
17	25.3 (2.6)	77.7 (9.7)	3.27 (3.14)	195 (78)	157 (241)	98.0 (0.1)
18	24.1 (1.9)	78.6 (10.2)	1.95 (2.17)	225 (23)	156 (209)	97.8 (0.1)
19	24.8 (2.8)	70.1 (11.7)	1.67 (3.20)	173 (63)	182 (241)	97.5 (0.3)
20	23.8 (1.7)	71.1 (9.6)	1.16 (0.85)	214 (23)	211 (281)	96.9 (0.1)
21	21.3 (2.8)	71.6 (10.8)	0.88 (0.55)	237 (22)	232 (297)	97.0 (0.1)
22	18.8 (1.4)	77.3 (8.3)	0.48 (0.31)	326 (82)	125 (160)	97.6 (0.2)
23	20.7 (2.2)	69.4 (11.6)	0.16 (0.13)	337 (109)	147 (197)	98.0 (0.1)
24	22.6 (3.4)	64.5 (13.4)	0.07 (0.07)	114 (98)	275 (327)	98.3 (0.1)
25	23.3 (4.3)	67.8 (13.7)	0.20 (0.21)	192 (38)	261 (304)	98.1 (0.2)
26	23.3 (2.6)	74.3 (8.3)	0.21 (0.16)	259 (94)	151 (203)	98.0 (0.0)
27	20.8 (2.5)	79.0 (12.0)	0.42 (0.23)	77 (23)	165 (218)	98.1 (0.1)
28	20.6 (1.5)	85.7 (4.0)	0.54 (0.34)	53 (105)	47 (59)	97.5 (0.2)
29	18.4 (2.2)	77.9 (15.3)	0.82 (0.62)	298 (23)	197 (283)	97.3 (0.1)
30	16.5 (3.7)	70.4 (18.5)	0.36 (0.31)	333 (130)	242 (311)	98.0 (0.3)
31	17.7 (5.5)	66.4 (19.8)	0.07 (0.07)	33 (128)	248 (322)	98.6 (0.1)
Avg	23.2	67.9	0.63	225.0	209	97.8
n	31	31	31	31	31	31
SD	2.9	7.9	0.67	93.0	58	0.4
Min	16.5	51.6	0.06	3.0	47	96.9
Max	28.7	85.7	3.27	337.0	282	98.6

ED_001509B_00005068-00082

Table F1. Daily means (SD) of weather parameters at site IN2B for September, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	18.3 (4.8)	61.8 (15.8)	0.16 (0.13)	64 (36)	253 (309)	98.8 (0.1)
2	19.1 (5.4)	62.1 (16.5)	0.15 (0.13)	73 (32)	261 (305)	98.6 (0.2)
3						98.3 (0.1)
4	21.9 (4.4)	60.9 (16.7)	0.06 (0.06)	69 (54)	247 (297)	98.2 (0.1)
5	22.0 (4.3)	60.7 (14.3)	0.11 (0.09)	84 (28)	227 (275)	98.5 (0.1)
6	21.3 (3.3)	67.5 (8.8)	0.13 (0.09)	88 (46)	107 (125)	98.5 (0.1)
7	21.8 (1.9)	71.7 (7.7)	0.22 (0.19)	51 (35)	136 (179)	98.1 (0.1)
8						97.9 (0.1)
9						98.2 (0.1)
10	22.0 (3.4)	73.9 (16.1)	0.29 (0.21)	75 (16)	218 (274)	98.5 (0.1)
11	22.0 (4.2)	65.6 (16.6)	0.15 (0.11)	74 (33)	230 (280)	98.4 (0.1)
12	21.4 (3.9)	66.0 (11.2)	0.06 (0.06)	71 (79)	188 (253)	98.2 (0.1)
13	22.7 (4.1)	61.0 (13.3)	0.07 (0.07)	47 (88)	236 (286)	98.2 (0.1)
14	24.5 (4.1)	61.4 (13.5)	0.06 (0.06)	357 (145)	224 (272)	98.0 (0.1)
15	24.8 (3.8)	62.3 (14.3)	0.09 (0.08)	338 (137)	201 (252)	98.0 (0.1)
16	19.1 (3.1)	67.1 (12.2)	0.53 (0.38)	60 (19)	228 (279)	98.4 (0.1)
17	17.7 (5.0)	63.3 (17.1)	0.23 (0.22)	42 (61)	234 (284)	98.3 (0.1)
18	20.5 (5.9)	59.3 (18.1)	0.12 (0.14)	38 (103)	227 (279)	
19	18.5 (3.8)	63.5 (18.5)	0.37 (0.26)	80 (27)	218 (273)	98.6 (0.1)
20	18.8 (4.4)	75.6 (11.3)	0.32 (0.17)	103 (29)	104 (162)	98.0 (0.3)
21						97.8 (0.1)
22	25.3 (2.0)	73.6 (10.4)	0.50 (0.38)	173 (21)	122 (179)	97.9 (0.1)
23	24.0 (1.9)	74.2 (13.1)	0.45 (0.26)	294 (90)	153 (200)	98.2 (0.1)
24	22.3 (1.7)	77.1 (4.5)	0.13 (0.07)	51 (65)	58 (72)	98.3 (0.1)
25	18.0 (1.4)	76.8 (6.1)	0.34 (0.24)	100 (26)	61 (89)	98.3 (0.1)
26	19.0 (2.0)	78.2 (13.3)	0.24 (0.17)	260 (57)	139 (199)	97.5 (0.3)
27	17.9 (3.3)	77.0 (18.9)	0.54 (0.53)	228 (31)	173 (241)	96.6 (0.3)
28	14.8 (1.6)	58.5 (9.5)	2.52 (0.95)	277 (19)	81 (127)	96.3 (0.3)
29	11.8 (1.2)	78.5 (4.5)	1.24 (0.72)	315 (38)	81 (127)	97.4 (0.4)
30	12.1 (2.8)	67.6 (16.0)	0.28 (0.26)	351 (147)	181 (251)	98.1 (0.1)
Avg	20.1	67.9	0.36	51.0	176	98.1
n	26	26	26	26	26	29
SD	3.4	6.7	0.50	111.0	63	0.5
Min	11.8	58.5	0.06	38.0	58	96.3
Max	25.3	78.5	2.52	357.0	261	98.8

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Table F1. Daily means (SD) of weather parameters at site IN2B for October, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	12.1 (5.2)	75.3 (16.7)	0.12 (0.18)	129 (43)	120 (182)	97.7 (0.3)
2	13.1 (0.9)	75.0 (17.1)	0.94 (0.83)	206 (46)	92 (162)	96.5 (0.1)
3	11.6 (1.3)	79.1 (6.2)	0.84 (0.52)	231 (21)	65 (93)	96.9 (0.3)
4	11.8 (2.0)	71.3 (13.2)	0.55 (0.41)	262 (17)	115 (185)	97.7 (0.2)
5	12.9 (4.5)	66.0 (15.3)	0.08 (0.10)	286 (96)	179 (238)	97.9 (0.1)
6	13.4 (3.7)	78.2 (8.3)	0.97 (1.07)	177 (59)	55 (107)	96.8 (0.5)
7	12.0 (2.0)	62.1 (7.2)	1.14 (1.01)	260 (31)	121 (179)	97.6 (0.4)
8	11.9 (1.5)	80.3 (6.8)	0.20 (0.14)	176 (40)	25 (32)	97.7 (0.2)
9	13.0 (1.6)	86.5 (2.0)	0.44 (0.29)	21 (145)	20 (27)	97.2 (0.2)
10	8.8 (2.6)	70.6 (19.9)	0.41 (0.32)	291 (38)	162 (234)	98.3 (0.2)
11	7.1 (3.2)	66.3 (17.3)	0.11 (0.10)	315 (118)	82 (107)	98.8 (0.1)
12	8.1 (1.5)	78.7 (4.4)	0.12 (0.11)	80 (52)	42 (53)	98.4 (0.2)
13	9.8 (2.4)	67.8 (15.1)	0.37 (0.37)	3 (147)	143 (209)	98.7 (0.2)
14	6.0 (0.6)	80.1 (5.4)	0.56 (0.37)	70 (11)	31 (41)	98.3 (0.3)
15	5.8 (1.6)	81.1 (5.2)	0.55 (0.38)	46 (51)	38 (56)	97.5 (0.1)
16	8.1 (1.6)	70.1 (9.5)	0.30 (0.23)	16 (132)	72 (105)	97.9 (0.2)
17	6.9 (3.7)	66.8 (15.5)	0.26 (0.30)	356 (163)	98 (154)	98.5 (0.2)
18	7.5 (3.8)	71.0 (15.9)	0.11 (0.11)	246 (56)	120 (169)	98.7 (0.2)
19	12.0 (4.3)	58.1 (13.9)	0.52 (0.49)	204 (11)	132 (178)	98.1 (0.2)
20	15.7 (4.5)	60.1 (8.6)	0.31 (0.18)	211 (15)	116 (176)	98.0 (0.1)
21	16.7 (3.5)	55.4 (11.4)	0.44 (0.24)	215 (11)	130 (179)	98.1 (0.2)
22	15.8 (2.8)	69.6 (11.1)	0.28 (0.29)	177 (75)	71 (96)	97.6 (0.1)
23	13.8 (3.7)	87.7 (7.4)	1.55 (0.70)	171 (65)	41 (79)	96.4 (0.4)
24	7.6 (1.1)	82.2 (4.5)	1.07 (0.75)	244 (28)	68 (113)	96.8 (0.4)
25	12.2 (4.6)	62.4 (13.3)	0.21 (0.21)	175 (20)	113 (176)	97.9 (0.2)
26	15.1 (4.8)	54.2 (15.3)	0.21 (0.18)	170 (44)	126 (194)	
27	12.4 (1.3)	86.2 (5.1)	0.15 (0.09)	48 (108)	19 (23)	
28	13.8 (2.3)	80.7 (11.2)	0.25 (0.23)	59 (114)	73 (111)	97.6 (0.4)
29	12.8 (2.8)	78.3 (8.9)	0.34 (0.39)	123 (19)	63 (99)	98.0 (0.3)
30	18.2 (2.8)	78.5 (4.5)	1.24 (0.83)	180 (33)	22 (27)	96.7 (0.4)
31	8.0 (2.1)	66.2 (8.0)	1.62 (1.12)	259 (21)	85 (130)	97.2 (0.6)
Avg	11.4	72.4	0.52	207.0	85	97.7
n	31	31	31	31	31	29
SD	3.3	9.1	0.43	93.0	43	0.7
Min	5.8	54.2	0.08	3.0	19	96.4
Max	18.2	87.7	1.62	356.0	179	98.8

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Table F1. Daily means (SD) of weather parameters at site IN2B for November, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	7.8 (3.8)	63.7 (14.3)	0.05 (0.04)	213 (68)	136 (195)	98.4 (0.1)
2	9.8 (3.5)	66.8 (11.3)	0.28 (0.29)	206 (65)	78 (126)	98.2 (0.1)
3	6.2 (2.9)	66.4 (16.0)	0.21 (0.30)	309 (106)	133 (192)	98.7 (0.2)
4	8.7 (3.7)	64.5 (11.0)	0.08 (0.08)	160 (63)	94 (153)	98.4 (0.2)
5	8.1 (2.3)	61.5 (14.1)	0.43 (0.40)	281 (32)	131 (187)	98.7 (0.1)
6	8.6 (4.5)	60.9 (14.1)	0.45 (0.41)	154 (35)	79 (120)	98.4 (0.4)
7	15.5 (3.7)	57.0 (6.2)	0.71 (0.60)	218 (19)	120 (171)	97.5 (0.2)
8	17.2 (4.3)	68.2 (13.3)	0.16 (0.16)	181 (24)	113 (162)	98.2 (0.1)
9	16.3 (2.5)	72.4 (5.7)	0.20 (0.18)	247 (73)	62 (94)	98.6 (0.1)
10	12.7 (1.8)	65.1 (7.8)	0.67 (0.64)	45 (58)	29 (39)	99.0 (0.1)
11	7.4 (3.3)	56.8 (12.0)	0.53 (0.38)	57 (16)	130 (185)	99.0 (0.1)
12						98.4 (0.3)
13	9.8 (5.8)	65.6 (13.6)	0.12 (0.13)	133 (35)	96 (142)	97.6 (0.2)
14	14.2 (4.4)	65.0 (11.7)	0.19 (0.13)	190 (32)	101 (150)	97.3 (0.1)
15	12.9 (1.7)	71.7 (6.0)	0.25 (0.22)	352 (147)	26 (37)	97.9 (0.3)
16	6.7 (0.8)	80.6 (6.5)	1.05 (0.53)	63 (18)	15 (22)	98.2 (0.1)
17	7.5 (1.6)	77.7 (2.1)	1.19 (0.54)	74 (9)	30 (46)	97.9 (0.1)
18	9.9 (1.0)	85.8 (6.8)	0.26 (0.24)	130 (55)	19 (32)	97.9 (0.1)
19	8.1 (0.8)	88.1 (4.8)	0.40 (0.22)	212 (24)	26 (44)	98.0 (0.1)
20	7.8 (2.3)	83.4 (11.4)	0.48 (0.31)	247 (12)	95 (148)	98.2 (0.1)
21	8.6 (2.6)	76.2 (9.5)	0.04 (0.03)	148 (66)	70 (118)	98.3 (0.1)
22	8.3 (3.4)	79.8 (10.0)	0.26 (0.24)	98 (21)	101 (153)	98.4 (0.1)
23	8.4 (2.2)	85.4 (10.7)	0.16 (0.12)	93 (16)	94 (152)	98.1 (0.1)
24	8.1 (3.4)	93.9 (4.9)	0.31 (0.51)	126 (26)	20 (29)	97.8 (0.3)
25	8.6 (1.3)	88.1 (4.6)	1.04 (0.61)	230 (21)	26 (41)	97.0 (0.1)
26	4.2 (0.8)	88.2 (3.7)	1.34 (0.55)	260 (34)	19 (30)	97.1 (0.2)
27	1.9 (1.0)	78.3 (8.4)	0.65 (0.52)	275 (38)	49 (76)	97.5 (0.1)
28	5.8 (5.2)	75.7 (11.4)	0.14 (0.10)	185 (28)	100 (149)	97.3 (0.2)
29	8.7 (2.1)	80.4 (8.1)	0.57 (0.55)	249 (69)	50 (90)	96.9 (0.1)
30	3.8 (1.5)	76.6 (9.2)	0.58 (0.38)	295 (60)	45 (74)	97.5 (0.1)
Avg	9.0	73.9	0.44	191.0	72	98.0
n	29	29	29	29	29	30
SD	3.5	10.2	0.34	80.0	40	0.6
Min	1.9	56.8	0.04	45.0	15	96.9
Max	17.2	93.9	1.34	352.0	136	99.0

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Table F1. Daily means (SD) of weather parameters at site IN2B for December, 2009.

Day	Temp., °C	RH, %	Wind speed,	Wind direction,	Solar, W m^{-2}	Atm P, kPa
1	6.0 (3.7)	67.8 (11.0)	0.83 (0.54)	221 (21)	96 (144)	97.4 (0.1)
2	4.3 (1.2)	80.2 (5.8)	0.46 (0.66)	66 (104)	18 (26)	96.6 (0.6)
3	3.4 (1.8)	81.7 (6.9)	0.98 (0.46)	284 (32)	29 (47)	97.1 (0.6)
4	-3.0 (0.7)	76.1 (5.6)	0.86 (0.45)	254 (16)	67 (118)	98.2 (0.1)
5	-2.8 (1.1)	69.3 (6.4)	0.19 (0.19)	242 (50)	68 (131)	98.3 (0.1)
6	-0.5 (2.9)	72.9 (9.1)	0.17 (0.17)	187 (26)	70 (115)	98.5 (0.1)
7	-0.5 (2.1)	89.0 (7.3)	0.16 (0.13)	218 (52)	16 (23)	98.3 (0.2)
8	0.0 (1.1)	90.2 (5.6)	1.13 (1.20)	109 (47)	27 (45)	97.7 (1.0)
9	-1.2 (4.9)	86.4 (7.0)	4.35 (2.58)	232 (49)	17 (31)	95.2 (0.7)
10	-11.1 (1.3)	74.1 (7.6)	2.89 (1.15)	252 (9)	92 (141)	97.5 (0.4)
11	-5.3 (3.1)	70.6 (6.6)	0.85 (0.58)	240 (18)	95 (145)	98.6 (0.2)
12	0.9 (4.0)	61.9 (10.2)	0.27 (0.31)	170 (22)	90 (143)	98.6 (0.3)
13	4.0 (0.7)	93.0 (11.4)	0.36 (0.23)	227 (51)	14 (23)	97.5 (0.2)
14	5.9 (2.4)	91.0 (6.5)	0.70 (0.43)	214 (62)	19 (36)	97.2 (0.3)
15	-2.4 (2.9)	81.4 (7.2)	1.26 (0.71)	311 (16)	23 (38)	98.5 (0.5)
16	-6.5 (3.3)	70.4 (14.1)	0.26 (0.24)	274 (73)	94 (145)	99.3 (0.1)
17	-0.8 (3.8)	69.6 (9.0)	0.20 (0.20)	137 (18)	53 (86)	98.7 (0.4)
18	2.4 (0.8)	70.2 (4.0)	0.17 (0.16)	100 (32)	25 (36)	97.5 (0.3)
19	1.6 (1.7)	95.2 (6.0)	0.26 (0.12)	35 (104)	37 (54)	97.1 (0.2)
20	-0.1 (0.9)	96.9 (3.7)	0.25 (0.18)	262 (64)	37 (55)	97.9 (0.1)
21	-1.4 (0.4)	93.9 (5.9)	0.23 (0.14)	253 (24)	35 (53)	98.1 (0.1)
22	-0.6 (0.7)	92.5 (5.2)	0.46 (0.49)	116 (58)	46 (76)	98.4 (0.1)
23	-1.7 (0.3)	84.6 (3.0)	1.80 (0.54)	93 (5)	33 (51)	98.5 (0.1)
24	-1.0 (1.3)	77.0 (1.6)	2.02 (0.61)	96 (7)	31 (48)	97.9 (0.4)
25	3.4 (2.6)	84.2 (7.2)	1.94 (0.95)	152 (52)	11 (20)	96.4 (0.3)
26	-0.6 (1.7)	81.5 (9.8)	0.71 (0.52)	199 (26)	41 (65)	97.0 (0.1)
27	-4.9 (1.7)	88.6 (3.0)	0.58 (0.64)	261 (28)	35 (56)	97.2 (0.1)
28	-4.4 (2.4)	88.8 (11.4)	1.65 (0.73)	276 (42)	27 (41)	97.6 (0.4)
29	-3.2 (1.6)	75.1 (5.6)	0.19 (0.26)	259 (70)	89 (145)	98.9 (0.2)
30						98.2 (0.4)
31	0.4 (2.7)	94.6 (6.0)	1.09 (0.60)	250 (26)	28 (46)	97.6 (0.2)
Avg	-0.7	81.6	0.91	221.0	45	97.8
n	30	30	30	30	30	31
SD	3.7	9.7	0.93	73.0	28	0.8
Min	-11.1	61.9	0.16	35.0	11	95.2
Max	6.0	96.9	4.35	311.0	96	99.3

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Table F2. Animal characteristics.

Table F2. Daily means of animal characteristics at site IN2B for January, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	262,610	1.29	124	256,970	1.21	114
2	262,590	1.30	125	256,860	1.21	114
3	262,580	1.31	126	256,750	1.21	114
4	262,570	1.31	126	256,650	1.21	114
5	262,560	1.32	127	256,560	1.22	115
6	262,550	1.33	128	256,490	1.23	116
7	262,540	1.34	128	256,430	1.24	117
8	262,520	1.34	129	256,360	1.25	117
9	262,510	1.35	130	256,300	1.26	118
10	262,500	1.36	131	256,230	1.27	119
11	262,490	1.36	131	256,160	1.28	120
12	262,480	1.37	132	256,100	1.29	121
13	262,470	1.38	132	256,050	1.29	121
14	262,460	1.38	133	255,990	1.30	122
15	262,450	1.39	133	255,940	1.30	122
16	262,440	1.39	134	255,880	1.31	123
17	262,430	1.40	134	255,830	1.32	123
18	262,420	1.40	135	255,770	1.32	124
19	262,410	1.41	135	255,720	1.33	124
20	262,400	1.41	136	255,660	1.34	125
21	262,390	1.41	136	255,610	1.35	126
22	262,380	1.42	136	255,550	1.36	127
23	262,370	1.42	137	255,500	1.37	128
24	262,360	1.43	137	255,450	1.38	129
25	262,350	1.43	137	255,390	1.39	130
26	262,340	1.43	138	255,340	1.40	131
27	262,330	1.43	138	255,310	1.41	132
28	262,320	1.43	138	255,270	1.42	132
29	262,310	1.43	138	255,230	1.42	133
30	262,300	1.43	138	255,190	1.43	134
31	262,290	1.43	138	255,150	1.44	135
Avg	262,440	1.38	133	255,930	1.32	123
n	31	31	31	31	31	31
SD	93	0.05	4	525	0.07	6
Min	262,290	1.29	124	255,150	1.21	114
Max	262,610	1.43	138	256,970	1.44	135

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Table F2. Daily means of animal characteristics at site IN2B for February, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	262,280	1.44	138	255,110	1.45	135
2	262,270	1.44	138	255,070	1.46	136
3	262,250	1.44	138	255,030	1.46	136
4	262,240	1.44	138	254,990	1.46	137
5	262,230	1.44	138	254,950	1.46	137
6	262,220	1.44	138	254,900	1.47	137
7	262,210	1.44	138	254,860	1.47	137
8	262,200	1.44	138	254,820	1.47	138
9	262,180	1.44	138	254,780	1.48	138
10	262,170	1.44	138	254,730	1.48	138
11	262,160	1.44	138	254,690	1.47	138
12	262,140	1.44	138	254,650	1.47	137
13	262,130	1.44	139	254,600	1.47	137
14	262,110	1.44	139	254,560	1.47	137
15	262,100	1.44	139	254,510	1.47	137
16	262,090	1.45	139	254,460	1.47	137
17	262,070	1.45	139	254,410	1.47	137
18	262,050	1.45	139	254,360	1.47	137
19	262,040	1.45	139	254,310	1.47	137
20	262,020	1.45	139	254,250	1.47	137
21	262,010	1.45	139	254,200	1.47	137
22	261,990	1.45	139	254,150	1.47	137
23	261,970	1.45	140	254,100	1.47	137
24	261,960	1.45	140	254,040	1.47	137
25	261,940	1.46	140	253,980	1.47	136
26	261,920	1.46	140	253,930	1.47	136
27	261,900	1.46	140	253,870	1.47	136
28	261,880	1.46	140	253,820	1.47	136
29	261,870	1.46	140	253,760	1.47	136
Avg	262,090	1.45	139	254,480	1.47	137
n	29	29	29	29	29	29
SD	123	0.01	1	404	0.01	1
Min	261,870	1.44	138	253,760	1.45	135
Max	262,280	1.46	140	255,110	1.48	138

ED_001509B_00005068-00088

Table F2. Daily means of animal characteristics at site IN2B for March, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	261,850	1.46	140	253,700	1.47	136
2	261,830	1.46	140	253,630	1.47	136
3	261,810	1.45	139	253,550	1.47	136
4	261,800	1.45	139	253,480	1.47	136
5	261,780	1.45	139	253,410	1.47	136
6	261,760	1.45	139	253,340	1.47	136
7	261,750	1.45	139	253,270	1.47	136
8	261,730	1.44	138	253,190	1.47	136
9	261,710	1.44	138	253,100	1.47	136
10	261,700	1.44	138	253,020	1.47	136
11	261,680	1.44	138	252,930	1.47	136
12	261,670	1.44	138	252,840	1.47	136
13	261,650	1.44	138	252,760	1.47	136
14	261,640	1.44	138	252,670	1.47	136
15	261,620	1.44	138	252,580	1.47	136
16	261,610	1.44	138	252,490	1.47	136
17	261,590	1.44	138	252,400	1.48	137
18	261,580	1.44	138	252,310	1.48	137
19	261,560	1.44	138	252,220	1.48	137
20	261,550	1.44	138	252,130	1.49	137
21	261,530	1.44	138	252,040	1.49	138
22	261,520	1.44	138	251,940	1.49	138
23	261,500	1.44	138	251,840	1.49	138
24	261,490	1.44	138	251,750	1.50	138
25	261,480	1.44	138	251,650	1.50	138
26	261,460	1.44	138	251,550	1.50	138
27	261,450	1.44	138	251,450	1.50	138
28	261,440	1.44	138	251,350	1.50	138
29	261,420	1.44	138	251,260	1.50	138
30	261,410	1.45	138	251,170	1.49	137
31	261,390	1.45	138	251,080	1.49	137
Avg	261,610	1.45	139	252,450	1.48	137
n	31	31	31	31	31	31
SD	135	0.00	0	794	0.01	1
Min	261,390	1.44	138	251,080	1.47	136
Max	261,850	1.46	140	253,700	1.50	138

ED_001509B_00005068-00089

Table F2. Daily means of animal characteristics at site IN2B for April, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	261,380	1.45	139	250,990	1.49	137
2	261,360	1.45	139	250,900	1.48	136
3	261,350	1.45	139	250,810	1.48	136
4	261,330	1.45	139	250,730	1.48	136
5	261,310	1.45	139	250,650	1.48	135
6	261,290	1.45	138	250,580	1.48	135
7	261,280	1.44	138	250,510	1.47	135
8	261,260	1.44	138	250,440	1.47	135
9	261,240	1.44	138	250,370	1.47	135
10	261,220	1.43	137	250,300	1.47	135
11	261,200	1.43	137	250,230	1.47	135
12	261,180	1.43	137	250,160	1.47	135
13	261,160	1.43	137	250,100	1.47	135
14	261,150	1.43	136	250,030	1.47	135
15	261,130	1.42	136	249,970	1.48	135
16	261,110	1.42	136	249,900	1.48	135
17	261,090	1.42	136	249,830	1.48	135
18	261,070	1.42	136	249,770	1.48	135
19	261,060	1.42	136	249,700	1.48	135
20	261,040	1.42	135	249,620	1.48	136
21	261,020	1.42	135	249,550	1.48	136
22	261,000	1.42	135	249,480	1.48	136
23	260,980	1.41	135	249,400	1.49	136
24	260,960	1.41	135	249,330	1.49	136
25	260,940	1.41	135	249,260	1.49	136
26	260,920	1.41	135	249,180	1.49	136
27	260,900	1.41	135	249,110	1.48	135
28	260,880	1.41	135	249,030	1.48	135
29	260,870	1.41	134	248,960	1.47	134
30	260,850	1.40	134	248,880	1.47	134
Avg	261,120	1.43	136	249,930	1.48	135
n	30	30	30	30	30	30
SD	160	0.01	1	611	0.01	1
Min	260,850	1.40	134	248,880	1.47	134
Max	261,380	1.45	139	250,990	1.49	137

ED_001509B_00005068-00090

Table F2. Daily means of animal characteristics at site IN2B for May, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	260,830	1.40	134	248,810	1.46	133
2	260,810	1.40	134	248,730	1.46	133
3	260,800	1.40	134	248,660	1.46	133
4	260,770	1.40	134	248,590	1.47	133
5	260,750	1.40	134	248,520	1.47	134
6	260,730	1.41	134	248,450	1.48	134
7	260,710	1.41	134	248,380	1.48	135
8	260,690	1.41	135	248,300	1.49	135
9	260,670	1.41	135	248,230	1.49	136
10	260,640	1.41	135	248,160	1.49	136
11	260,620	1.41	135	248,080	1.50	136
12	260,590	1.41	134	248,010	1.50	136
13	260,570	1.41	134	247,930	1.50	136
14	260,540	1.40	134	247,860	1.50	136
15	260,520	1.40	134	247,780	1.50	136
16	260,490	1.40	134	247,710	1.50	136
17	260,470	1.40	134	247,630	1.50	136
18	260,440	1.40	134	247,550	1.50	136
19	260,410	1.40	134	247,470	1.50	136
20	260,390	1.40	134	247,400	1.50	136
21	260,360	1.41	134	247,320	1.50	136
22	260,330	1.41	134	247,240	1.50	136
23	260,300	1.41	134	247,160	1.50	136
24	260,280	1.41	134	247,090	1.50	136
25	260,260	1.41	134	247,020	1.50	136
26	260,230	1.41	134	246,960	1.50	136
27	260,210	1.41	134	246,890	1.51	136
28	260,190	1.41	134	246,820	1.51	136
29	260,170	1.40	134	246,760	1.51	136
30	260,150	1.40	134	246,690	1.51	136
31	260,120	1.40	134	246,620	1.51	136
Avg	260,490	1.41	134	247,700	1.49	136
n	31	31	31	31	31	31
SD	219	0.00	0	662	0.01	1
Min	260,120	1.40	134	246,620	1.46	133
Max	260,830	1.41	135	248,810	1.51	136

ED_001509B_00005068-00091

Table F2. Daily means of animal characteristics at site IN2B for June, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	260,100	1.40	133	246,560	1.51	136
2	260,070	1.40	133	246,500	1.51	136
3	260,050	1.40	133	246,430	1.51	136
4	260,030	1.39	133	246,370	1.51	136
5	260,000	1.39	132	246,310	1.51	136
6	259,980	1.39	132	246,240	1.51	136
7	259,950	1.39	132	246,180	1.51	136
8	259,930	1.39	132	246,110	1.51	136
9	259,900	1.39	133	246,050	1.51	136
10	259,870	1.39	133	245,980	1.50	135
11	259,850	1.40	133	245,920	1.50	135
12	259,820	1.40	133	245,850	1.50	135
13	259,790	1.40	133	245,790	1.50	135
14	259,760	1.40	134	245,730	1.48	134
15	259,730	1.40	133	245,680	1.46	132
16	259,700	1.40	133	245,620	1.44	130
17	259,680	1.40	133	245,570	1.42	128
18	259,650	1.40	133	245,510	1.40	126
19	259,620	1.40	133	245,460	1.38	124
20	259,590	1.40	133	245,410	1.36	123
21	259,560	1.40	133	245,350	1.36	122
22	259,530	1.40	133	245,290	1.36	122
23	259,500	1.40	133	245,240	1.37	123
24	259,470	1.41	134	245,180	1.37	123
25	259,450	1.41	134	245,130	1.38	124
26	259,420	1.41	134	245,070	1.38	124
27	259,390	1.41	134	245,010	1.39	125
28	259,370	1.41	134	244,960	1.40	125
29	259,340	1.41	134	244,900	1.41	127
30	259,320	1.41	134	244,840	1.43	128
Avg	259,710	1.40	133	245,670	1.45	130
n	30	30	30	30	30	30
SD	239	0.01	1	509	0.06	6
Min	259,320	1.39	132	244,840	1.36	122
Max	260,100	1.41	134	246,560	1.51	136

ED_001509B_00005068-00092

Table F2. Daily means of animal characteristics at site IN2B for July, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	259,290	1.41	134	244,790	1.44	129
2	259,270	1.41	134	244,730	1.46	131
3	259,250	1.41	134	244,670	1.47	132
4	259,220	1.41	134	244,620	1.49	133
5	259,190	1.41	134	244,560	1.50	134
6	259,160	1.41	134	244,500	1.50	134
7	259,130	1.41	134	244,440	1.51	135
8	259,100	1.41	134	244,370	1.51	135
9	259,070	1.41	134	244,310	1.51	136
10	259,040	1.41	133	244,250	1.52	136
11	259,010	1.40	133	244,190	1.52	136
12	258,980	1.40	133	244,140	1.52	136
13	258,950	1.40	133	244,090	1.52	136
14	258,920	1.40	133	244,040	1.52	136
15	258,890	1.40	133	244,000	1.51	135
16	258,850	1.40	132	243,950	1.51	135
17	258,820	1.39	132	243,900	1.51	135
18	258,790	1.39	132	243,860	1.50	134
19	258,760	1.39	132	243,800	1.50	134
20	258,730	1.39	132	243,730	1.50	134
21	258,700	1.40	132	243,660	1.50	134
22	258,670	1.40	133	243,590	1.50	134
23	258,640	1.40	133	243,520	1.50	134
24	258,600	1.40	133	243,450	1.50	134
25	258,570	1.41	133	243,380	1.50	134
26	258,550	1.41	133	243,310	1.50	134
27	258,520	1.41	133	243,250	1.50	134
28	258,490	1.41	133	243,190	1.51	134
29	258,460	1.41	133	243,140	1.51	134
30	258,430	1.41	133	243,080	1.51	134
31	258,410	1.41	133	243,020	1.51	134
Avg	258,850	1.40	133	243,920	1.50	134
n	31	31	31	31	31	31
SD	272	0.01	1	524	0.02	1
Min	258,410	1.39	132	243,020	1.44	129
Max	259,290	1.41	134	244,790	1.52	136

ED_001509B_00005068-00093

Table F2. Daily means of animal characteristics at site IN2B for August, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	258,380	1.41	133	242,960	1.51	135
2	258,350	1.41	133	242,900	1.51	135
3	258,310	1.41	133	242,850	1.52	135
4	258,270	1.41	133	242,800	1.52	135
5	258,240	1.41	133	242,750	1.52	135
6	258,200	1.41	133	242,700	1.52	135
7	258,160	1.40	133	242,650	1.53	136
8	258,130	1.40	133	242,600	1.53	136
9	258,090	1.40	133	242,540	1.53	136
10	258,050	1.40	133	242,490	1.53	136
11	258,020	1.41	133	242,440	1.53	136
12	257,980	1.41	133	242,380	1.53	135
13	257,950	1.41	133	242,330	1.52	135
14	257,910	1.41	133	242,270	1.52	135
15	257,870	1.41	133	242,220	1.52	135
16	257,840	1.41	133	242,170	1.52	135
17	257,810	1.40	133	242,110	1.52	134
18	257,790	1.40	132	242,050	1.51	134
19	257,760	1.40	132	242,000	1.51	134
20	257,730	1.40	132	241,940	1.50	133
21	257,700	1.39	132	241,890	1.50	133
22	257,670	1.39	131	241,830	1.50	133
23	257,650	1.39	131	241,780	1.49	132
24	257,620	1.39	131	241,720	1.49	132
25	257,600	1.39	131	241,670	1.49	132
26	257,570	1.39	131	241,620	1.49	131
27	257,540	1.39	131	241,560	1.48	131
28	257,520	1.39	131	241,510	1.48	131
29	257,490	1.39	131	241,460	1.48	131
30	257,470	1.39	131	241,400	1.48	131
31	257,440	1.39	131	241,340	1.48	131
Avg	257,870	1.40	132	242,160	1.51	134
n	31	31	31	31	31	31
SD	282	0.01	1	483	0.02	2
Min	257,440	1.39	131	241,340	1.48	131
Max	258,380	1.41	133	242,960	1.53	136

Table F2. Daily means of animal characteristics at site IN2B for September, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	257,420	1.39	131	241,270	1.48	131
2	257,390	1.39	131	241,210	1.48	131
3	257,370	1.39	131	241,150	1.48	131
4	257,340	1.39	131	241,090	1.49	131
5	257,320	1.39	131	241,020	1.49	131
6	257,290	1.39	131	240,960	1.49	132
7	257,260	1.39	131	240,890	1.49	132
8	257,230	1.39	131	240,830	1.49	132
9	257,200	1.39	131	240,760	1.49	132
10	257,170	1.39	131	240,690	1.50	132
11	257,140	1.39	131	240,630	1.50	132
12	257,110	1.39	131	240,560	1.50	132
13	257,080	1.40	131	240,500	1.50	132
14	257,050	1.40	132	240,430	1.50	132
15	257,020	1.40	132	240,360	1.50	132
16	257,000	1.40	132	240,300	1.50	132
17	256,970	1.40	132	240,230	1.50	132
18	256,940	1.40	132	240,170	1.49	132
19	256,910	1.40	132	240,100	1.49	131
20	256,880	1.40	132	240,040	1.49	131
21	256,850	1.40	132	239,980	1.49	131
22	256,820	1.40	132	239,930	1.50	131
23	256,780	1.40	132	239,870	1.50	131
24	256,750	1.40	131	239,810	1.50	131
25	256,720	1.40	131	239,760	1.50	132
26	256,680	1.40	131	239,700	1.50	132
27	256,650	1.40	131	239,650	1.49	131
28	256,620	1.40	131	239,610	1.48	130
29	256,590	1.40	131	239,570	1.47	129
30	256,570	1.40	132	239,520	1.46	128
Avg	257,000	1.40	131	240,350	1.49	131
n	30	30	30	30	30	30
SD	257	0.00	0	539	0.01	1
Min	256,570	1.39	131	239,520	1.46	128
Max	257,420	1.40	132	241,270	1.50	132

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Table F2. Daily means of animal characteristics at site IN2B for October, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	256,540	1.40	132	239,480	1.45	128
2	256,510	1.40	132	239,440	1.44	127
3	256,480	1.40	132	239,400	1.43	126
4	256,450	1.41	132		1.42	
5	256,430	1.41	132		1.41	
6	256,400	1.41	133		1.40	
7	256,370	1.42	133		1.39	
8	256,350	1.42	133		1.38	
9	256,320	1.42	133		1.37	
10	256,290	1.42	134		1.36	
11	256,260	1.43	134		1.35	
12	256,230	1.43	134		1.35	
13	256,200	1.43	134		1.34	
14	256,170	1.43	134		1.33	
15	256,130	1.43	134		1.32	
16	256,100	1.43	134		1.31	
17	256,070	1.43	134		1.30	
18	256,040	1.42	134		1.29	
19	256,010	1.42	133		1.28	
20	255,980	1.42	133		1.27	
21	255,950	1.42	133		1.26	
22	255,920	1.41	132		1.25	
23	255,890	1.41	132		1.24	
24	255,860	1.41	132		1.23	
25	255,830	1.41	132	228,650	1.22	102
26	255,800	1.41	132	228,640	1.21	101
27	255,770	1.41	132	228,630	1.20	100
28	255,740	1.41	132	228,630	1.19	99
29	255,710	1.42	133	228,620	1.18	99
30	255,690	1.42	133	228,610	1.17	98
31	255,660	1.42	133	228,600	1.16	97
Avg	256,100	1.42	133	231,870	1.31	108
n	31	31	31	10	31	10
SD	267	0.01	1	4,955	0.09	13
Min	255,660	1.40	132	228,600	1.16	97
Max	256,540	1.43	134	239,480	1.45	128

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Table F2. Daily means of animal characteristics at site IN2B for November, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	255,630	1.42	133	230,180	1.15	97
2	255,590	1.42	133	233,350	1.16	99
3	255,560	1.42	133	236,520	1.17	101
4	255,530	1.42	133	239,690	1.17	103
5	255,500	1.42	133	242,860	1.18	105
6	255,460	1.42	133	246,030	1.18	107
7	255,430	1.42	133	249,200	1.19	109
8	255,390	1.42	133	250,780	1.20	110
9	255,350	1.42	132	250,770	1.20	110
10	255,310	1.42	132	250,760	1.21	111
11	255,270	1.42	132	250,750	1.21	111
12	255,220	1.41	132	250,740	1.22	112
13	255,180	1.41	132	250,740	1.22	112
14	255,140	1.41	132	250,730	1.23	113
15	255,100	1.41	132	250,720	1.24	114
16	255,060	1.41	132	250,720	1.24	114
17	255,020	1.41	132	250,710	1.25	115
18	254,980	1.41	132	250,710	1.26	115
19	254,940	1.41	132	250,700	1.26	116
20	254,900	1.41	132	250,700	1.27	116
21	254,850	1.41	132	250,690	1.27	117
22	254,820	1.41	132	250,690	1.28	118
23	254,780	1.42	132	250,680	1.29	118
24	254,740	1.42	132	250,680	1.30	119
25	254,700	1.42	132	250,670	1.30	120
26	254,670	1.42	133	250,670	1.31	121
27	254,630	1.42	133	250,660	1.32	121
28	254,590	1.43	133	250,660	1.33	122
29	254,560	1.43	133	250,650	1.34	123
30	254,520	1.43	133	250,640	1.35	124
Avg	255,080	1.42	132	248,130	1.24	113
n	30	30	30	30	30	30
SD	340	0.00	0	5,576	0.06	7
Min	254,520	1.41	132	230,180	1.15	97
Max	255,630	1.43	133	250,780	1.35	124

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Table F2. Daily means of animal characteristics at site IN2B for December, 2008.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	254,480	1.43	134	250,630	1.36	124
2	254,450	1.44	134	250,620	1.37	125
3	254,410	1.44	134	250,610	1.38	126
4	254,370	1.44	134	250,600	1.39	127
5	254,340	1.44	134	250,600	1.39	128
6	254,290	1.44	135	250,580	1.40	129
7	254,250	1.45	135	250,570	1.41	129
8	254,200	1.45	135	250,560	1.42	130
9	254,150	1.45	135	250,540	1.42	131
10	254,100	1.45	135	250,530	1.43	131
11	254,060	1.45	135	250,520	1.44	132
12	254,010	1.45	135	250,500	1.45	133
13	253,960	1.45	135	250,490	1.45	133
14	253,920	1.45	135	250,480	1.45	133
15	253,870	1.45	135	250,460	1.45	133
16	253,820	1.45	135	250,450	1.45	133
17	253,780	1.45	135	250,440	1.45	133
18	253,730	1.45	135	250,420	1.45	133
19	253,690	1.45	135	250,410	1.45	133
20	253,640	1.45	135	250,400	1.45	133
21	253,590	1.45	135	250,390	1.45	133
22	253,550	1.45	135	250,380	1.44	132
23	253,500	1.45	135	250,370	1.44	132
24	253,460	1.45	135	250,360	1.44	132
25	253,410	1.45	135	250,350	1.43	132
26	253,370	1.45	134	250,340	1.43	131
27	253,320	1.45	135	250,330	1.43	131
28	253,270	1.45	135	250,320	1.44	132
29	253,220	1.45	135	250,310	1.44	132
30	253,160	1.46	135	250,300	1.44	132
31	253,110	1.46	135	250,290	1.45	133
Avg	253,820	1.45	135	250,460	1.43	131
n	31	31	31	31	31	31
SD	412	0.01	0	106	0.03	2
Min	253,110	1.43	134	250,290	1.36	124
Max	254,480	1.46	135	250,630	1.45	133

ED_001509B_00005068-00098

Table F2. Daily means of animal characteristics at site IN2B for January, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	253,060	1.46	135	250,280	1.45	133
2	253,010	1.46	135	250,270	1.45	133
3	252,960	1.46	136	250,260	1.45	133
4	252,900	1.46	135	250,250	1.43	131
5	252,850	1.46	135	250,230	1.42	130
6	252,800	1.46	135	250,220	1.40	128
7	252,740	1.46	135	250,210	1.39	127
8	252,690	1.46	135	250,190	1.37	126
9	252,630	1.46	135	250,180	1.36	124
10	252,580	1.46	135	250,170	1.36	125
11	252,530	1.46	135	250,160	1.38	126
12	252,470	1.46	135	250,140	1.39	128
13	252,420	1.46	135	250,130	1.41	129
14	252,370	1.46	135	250,120	1.43	131
15	252,310	1.46	135	250,100	1.45	132
16	252,260	1.46	135	250,090	1.46	134
17	252,200	1.45	134	250,050	1.47	135
18	252,140	1.41	131	249,980	1.47	135
19	252,070	1.38	127	249,900	1.48	135
20	252,010	1.35	124	249,830	1.48	135
21	251,950	1.31	121	249,760	1.48	135
22	251,880	1.28	118	249,690	1.48	136
23	251,820	1.25	115	249,620	1.48	136
24	251,750	1.23	114	249,580	1.48	136
25	251,670	1.23	114	249,570	1.48	136
26	251,590	1.23	114	249,560	1.48	136
27	251,520	1.24	114	249,550	1.48	136
28	251,440	1.24	114	249,540	1.48	135
29	251,360	1.24	114	249,530	1.48	135
30	251,290	1.24	114	249,510	1.48	135
31	251,210	1.24	114	249,500	1.48	135
Avg	252,210	1.38	127	249,940	1.44	132
n	31	31	31	31	31	31
SD	544	0.10	10	286	0.04	4
Min	251,210	1.23	114	249,500	1.36	124
Max	253,060	1.46	136	250,280	1.48	136

ED_001509B_00005068-00099

Table F2. Daily means of animal characteristics at site IN2B for February, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	251,120	1.23	113	249,490	1.47	135
2	251,030	1.23	113	249,480	1.47	134
3	250,940	1.22	113	249,470	1.47	134
4	250,850	1.22	112	249,450	1.46	134
5	250,760	1.22	112	249,440	1.46	133
6	250,670	1.21	111	249,430	1.46	133
7	250,590	1.21	111	249,420	1.45	133
8	250,510	1.21	111	249,410	1.45	133
9	250,440	1.21	111	249,390	1.45	132
10	250,370	1.20	110	249,380	1.45	132
11	250,290	1.20	110	249,370	1.44	132
12	250,220	1.20	110	249,360	1.44	132
13	250,150	1.20	110	249,350	1.44	132
14	250,080	1.20	110	249,330	1.44	132
15	250,010	1.21	111	249,310	1.44	132
16	249,940	1.22	112	249,290	1.44	132
17	249,870	1.24	113	249,260	1.44	132
18	249,800	1.25	114	249,240	1.45	132
19	249,730	1.26	115	249,220	1.45	132
20	249,670	1.27	116	249,200	1.45	132
21	249,610	1.28	117	249,180	1.45	132
22	249,570	1.28	117	249,160	1.45	132
23	249,530	1.29	118	249,140	1.45	132
24	249,490	1.30	118	249,120	1.45	132
25	249,450	1.30	119	249,110	1.45	132
26	249,410	1.31	120	249,090	1.45	132
27	249,370	1.32	120	249,070	1.44	132
28	249,330	1.32	121	249,050	1.44	132
Avg	250,100	1.24	114	249,290	1.45	132
n	28	28	28	28	28	28
SD	544	0.04	3	135	0.01	1
Min	249,330	1.20	110	249,050	1.44	132
Max	251,120	1.32	121	249,490	1.47	135

ED_001509B_00005068-00100

Table F2. Daily means of animal characteristics at site IN2B for March, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	249,300	1.33	122	249,040	1.44	131
2	249,260	1.35	123	249,030	1.43	131
3	249,220	1.36	124	249,010	1.43	131
4	249,190	1.37	125	249,000	1.43	130
5	249,150	1.38	126	248,990	1.42	130
6	249,120	1.39	127	248,970	1.42	129
7	249,080	1.40	128	248,960	1.42	129
8	249,050	1.41	128	248,940	1.42	129
9	249,020	1.42	129	248,920	1.41	129
10	248,990	1.42	130	248,900	1.41	129
11	248,960	1.43	131	248,890	1.41	129
12	248,930	1.44	131	248,870	1.41	129
13	248,900	1.45	132	248,850	1.41	128
14	248,860	1.45	132	248,830	1.41	128
15	248,800	1.45	132	248,810	1.41	128
16	248,750	1.45	132	248,800	1.41	128
17	248,690	1.45	132	248,780	1.41	128
18	248,630	1.45	132	248,760	1.41	128
19	248,580	1.45	132	248,740	1.41	128
20	248,520	1.45	132	248,730	1.41	128
21	248,450	1.45	132	248,710	1.41	128
22	248,360	1.45	132	248,690	1.41	128
23	248,280	1.46	133	248,680	1.41	128
24	248,190	1.46	133	248,660	1.41	128
25	248,110	1.47	133	248,650	1.41	128
26	248,030	1.47	134	248,630	1.40	128
27	247,940	1.48	134	248,620	1.40	128
28	247,870	1.48	134	248,600	1.40	128
29	247,810	1.48	134	248,590	1.40	128
30	247,760	1.48	134	248,580	1.40	128
31	247,700	1.48	134	248,560	1.40	127
Avg	248,630	1.43	131	248,800	1.41	129
n	31	31	31	31	31	31
SD	491	0.04	4	149	0.01	1
Min	247,700	1.33	122	248,560	1.40	127
Max	249,300	1.48	134	249,040	1.44	131

ED_001509B_00005068-00101

Table F2. Daily means of animal characteristics at site IN2B for April, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	247,640	1.48	134	248,550	1.40	127
2	247,590	1.48	134	248,530	1.40	127
3	247,530	1.48	134	248,520	1.40	127
4	247,470	1.48	134	248,500	1.39	127
5	247,400	1.48	134	248,480	1.39	127
6	247,340	1.47	133	248,460	1.39	127
7	247,270	1.47	133	248,450	1.39	127
8	247,210	1.47	133	248,430	1.39	127
9	247,140	1.46	132	248,410	1.39	127
10	247,070	1.46	132	248,390	1.39	127
11	247,010	1.46	132	248,370	1.40	127
12	246,960	1.46	132	248,340	1.40	127
13	246,910	1.46	132	248,320	1.40	127
14	246,850	1.46	132	248,290	1.40	127
15	246,800	1.46	132	248,270	1.40	127
16	246,740	1.46	132	248,240	1.40	127
17	246,690	1.46	132	248,220	1.40	128
18	246,630	1.46	132	248,190	1.40	128
19	246,580	1.45	131	248,170	1.40	128
20	246,520	1.45	131	248,150	1.40	128
21	246,460	1.45	131	248,120	1.40	128
22	246,400	1.45	131	248,100	1.40	128
23	246,340	1.44	130	248,080	1.40	128
24	246,280	1.44	130	248,050	1.40	128
25	246,220	1.45	130	248,030	1.40	127
26	246,160	1.46	131	248,000	1.40	127
27	246,090	1.47	133	247,970	1.40	127
28	246,030	1.48	134	247,950	1.40	127
29	245,970	1.49	135	247,920	1.39	126
30	245,900	1.51	136	247,890	1.39	126
Avg	246,770	1.46	132	248,250	1.40	127
n	30	30	30	30	30	30
SD	513	0.02	1	200	0.00	0
Min	245,900	1.44	130	247,890	1.39	126
Max	247,640	1.51	136	248,550	1.40	128

ED_001509B_00005068-00102

Table F2. Daily means of animal characteristics at site IN2B for May, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	245,840	1.52	137	247,860	1.39	126
2	245,770	1.52	137	247,830	1.39	126
3	245,700	1.50	135	247,790	1.39	126
4	245,630	1.49	134	247,760	1.39	126
5	245,560	1.48	133	247,720	1.39	126
6	245,490	1.46	131	247,690	1.39	126
7	245,420	1.45	130	247,650	1.39	126
8	245,350	1.43	129	247,610	1.39	126
9	245,280	1.43	128	247,570	1.39	126
10	245,210	1.43	129	247,530	1.39	126
11	245,140	1.44	129	247,480	1.39	126
12	245,070	1.44	129	247,440	1.39	126
13	245,000	1.45	130	247,390	1.39	126
14	244,930	1.45	130	247,340	1.39	126
15	244,870	1.46	131	247,300	1.39	126
16	244,800	1.45	130	247,250	1.39	126
17	244,730	1.45	130	247,210	1.39	126
18	244,660	1.44	129	247,170	1.39	126
19	244,590	1.43	128	247,120	1.39	126
20	244,520	1.43	128	247,080	1.39	126
21	244,460	1.42	127	247,040	1.39	126
22	244,390	1.41	126	246,990	1.39	126
23	244,320	1.41	126	246,950	1.39	126
24	244,260	1.41	126	246,920	1.39	125
25	244,190	1.41	126	246,880	1.38	125
26	244,130	1.41	126	246,850	1.38	125
27	244,060	1.41	126	246,810	1.38	125
28	244,000	1.41	126	246,770	1.38	124
29	243,930	1.41	126	246,740	1.37	124
30	243,860	1.41	126	246,700	1.37	124
31	243,780	1.41	126	246,660	1.37	124
Avg	244,810	1.44	129	247,260	1.39	126
n	31	31	31	31	31	31
SD	612	0.03	3	370	0.01	1
Min	243,780	1.41	126	246,660	1.37	124
Max	245,840	1.52	137	247,860	1.39	126

Table F2. Daily means of animal characteristics at site IN2B for June, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	243,690	1.41	125	246,620	1.37	124
2	243,610	1.40	125	246,580	1.37	124
3	243,530	1.40	125	246,540	1.37	124
4	243,450	1.40	125	246,500	1.37	124
5	243,360	1.40	125	246,470	1.37	124
6	243,290	1.40	125	246,420	1.37	124
7	243,230	1.40	125	246,380	1.37	124
8	243,170	1.40	125	246,340	1.37	124
9	243,100	1.40	125	246,300	1.37	124
10	243,040	1.40	125	246,250	1.37	124
11	242,980	1.40	125	246,210	1.37	124
12	242,910	1.40	125	246,170	1.37	124
13	242,850	1.40	125	246,120	1.37	124
14	242,780	1.41	125	246,070	1.37	124
15	242,710	1.41	125	246,030	1.37	124
16	242,640	1.41	125	245,980	1.37	124
17	242,570	1.41	125	245,930	1.38	124
18	242,500	1.41	125	245,880	1.38	124
19	242,430	1.41	125	245,830	1.38	124
20	242,360	1.41	126	245,790	1.38	124
21	242,290	1.42	126	245,750	1.38	124
22	242,230	1.42	126	245,720	1.38	124
23	242,160	1.42	126	245,680	1.38	124
24	242,100	1.42	126	245,640	1.38	124
25	242,030	1.42	126	245,610	1.38	124
26	241,960	1.43	126	245,570	1.38	124
27	241,900	1.43	126	245,530	1.38	124
28	241,830	1.43	127	245,490	1.38	124
29	241,760	1.43	127	245,440	1.38	124
30	241,690	1.43	127	245,400	1.38	124
Avg	242,670	1.41	125	246,010	1.38	124
n	30	30	30	30	30	30
SD	587	0.01	1	371	0.00	0
Min	241,690	1.40	125	245,400	1.37	124
Max	243,690	1.43	127	246,620	1.38	124

ED_001509B_00005068-00104

Table F2. Daily means of animal characteristics at site IN2B for July, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	241,630	1.44	127	245,360	1.38	124
2	241,560	1.44	127	245,320	1.38	124
3	241,490	1.44	127	245,270	1.39	124
4	241,420	1.44	127	245,230	1.39	124
5	241,350	1.44	127	245,190	1.38	124
6	241,280	1.44	127	245,150	1.38	124
7	241,210	1.44	127	245,110	1.38	124
8	241,140	1.44	127	245,070	1.38	124
9	241,070	1.44	127	245,030	1.38	124
10	241,000	1.44	127	244,990	1.38	124
11	240,930	1.44	127	244,950	1.38	124
12	240,870	1.44	127	244,920	1.38	124
13	240,800	1.44	127	244,880	1.38	124
14	240,730	1.44	127	244,840	1.38	123
15	240,670	1.44	127	244,810	1.38	123
16	240,600	1.44	127	244,770	1.38	123
17	240,530	1.44	127	244,740	1.38	123
18	240,470	1.44	126	244,700	1.38	123
19	240,400	1.43	126	244,670	1.38	124
20	240,340	1.43	126	244,630	1.38	124
21	240,270	1.43	126	244,600	1.38	124
22	240,210	1.43	126	244,570	1.38	124
23	240,140	1.43	126	244,530	1.38	124
24	240,080	1.43	126	244,500	1.39	124
25	240,010	1.43	126	244,460	1.38	124
26	239,950	1.43	126	244,420	1.38	124
27	239,880	1.43	126	244,380	1.38	123
28	239,820	1.43	126	244,340	1.37	123
29	239,760	1.43	125	244,300	1.37	123
30	239,690	1.43	125	244,260	1.37	122
31	239,630	1.43	125	244,220	1.37	122
Avg	240,610	1.44	126	244,780	1.38	124
n	31	31	31	31	31	31
SD	597	0.00	1	331	0.00	1
Min	239,630	1.43	125	244,220	1.37	122
Max	241,630	1.44	127	245,360	1.39	124

ED_001509B_00005068-00105

Table F2. Daily means of animal characteristics at site IN2B for August, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	239,560	1.43	125	244,180	1.36	122
2	239,500	1.43	125	244,130	1.36	122
3	239,430	1.42	125	244,080	1.36	122
4	239,360	1.42	125	244,030	1.36	122
5	239,300	1.42	125	243,980	1.36	122
6	239,230	1.42	125	243,930	1.36	122
7	239,160	1.42	125	243,880	1.36	122
8	239,100	1.42	125	243,840	1.36	122
9	239,030	1.42	125	243,800	1.36	122
10	238,960	1.42	125	243,760	1.36	121
11	238,890	1.42	125	243,730	1.36	121
12	238,820	1.42	125	243,690	1.36	121
13	238,760	1.43	125	243,650	1.36	121
14	238,690	1.43	125	243,610	1.36	121
15	238,620	1.43	125	243,570	1.35	121
16	238,540	1.43	125	243,530	1.35	121
17	238,470	1.43	125	243,480	1.35	120
18	238,390	1.43	125	243,440	1.35	120
19	238,320	1.43	125	243,400	1.35	120
20	238,240	1.43	124	243,350	1.34	120
21	238,170	1.43	124	243,310	1.34	120
22	238,090	1.43	124	243,270	1.34	120
23	238,020	1.43	124	243,220	1.34	120
24	237,940	1.43	124	243,180	1.35	120
25	237,870	1.43	124	243,140	1.35	120
26	237,790	1.43	125	243,100	1.35	120
27	237,720	1.43	125	243,050	1.36	121
28	237,640	1.43	125	243,010	1.36	121
29	237,570	1.43	125	242,970	1.36	121
30	237,510	1.43	125	242,930	1.36	121
31	237,440	1.43	125	242,900	1.36	121
Avg	238,520	1.43	125	243,520	1.36	121
n	31	31	31	31	31	31
SD	640	0.00	0	378	0.01	1
Min	237,440	1.42	124	242,900	1.34	120
Max	239,560	1.43	125	244,180	1.36	122

ED_001509B_00005068-00106

Table F2. Daily means of animal characteristics at site IN2B for September, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	237,380	1.44	125	242,860	1.36	121
2	237,310	1.44	125	242,820	1.36	121
3	237,240	1.44	125	242,780	1.36	121
4	237,180	1.44	125	242,750	1.36	121
5	237,110	1.44	125	242,710	1.36	121
6	237,050	1.44	125	242,680	1.37	121
7	236,980	1.44	125	242,640	1.37	122
8	236,920	1.44	125	242,610	1.37	122
9	236,850	1.44	125	242,580	1.37	122
10	236,790	1.44	125	242,540	1.37	122
11	236,730	1.44	125	242,510	1.38	122
12	236,660	1.44	125	242,480	1.38	122
13	236,610	1.44	125	242,450	1.37	122
14	236,550	1.44	125	242,410	1.37	122
15	236,490	1.44	125	242,380	1.37	121
16	236,440	1.44	125	242,350	1.36	121
17	236,380	1.44	125	242,320	1.36	121
18	236,320	1.44	125	242,280	1.36	120
19	236,260	1.44	125	242,250	1.36	120
20	236,190	1.44	125	242,210	1.36	120
21	236,120	1.44	125	242,170	1.36	121
22	236,050	1.44	124	242,130	1.36	121
23	235,980	1.44	124	242,090	1.36	121
24	235,910	1.43	124	242,060	1.37	121
25	235,830	1.43	124	242,020	1.37	121
26	235,760	1.43	124	241,980	1.37	121
27	235,690	1.43	124	241,940	1.37	122
28	235,630	1.43	124	241,900	1.38	122
29	235,560	1.43	124	241,860	1.38	122
30	235,490	1.43	124	241,810	1.39	123
Avg	236,450	1.44	125	242,350	1.37	121
n	30	30	30	30	30	30
SD	555	0.00	1	305	0.01	1
Min	235,490	1.43	124	241,810	1.36	120
Max	237,380	1.44	125	242,860	1.39	123

ED_001509B_00005068-00107

Table F2. Daily means of animal characteristics at site IN2B for October, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	235,420	1.43	124	241,770	1.39	123
2	235,350	1.44	124	241,730	1.39	123
3	235,280	1.43	124	241,700	1.40	124
4	235,210	1.43	123	241,660	1.40	124
5	235,140	1.42	123	241,630	1.40	124
6	235,070	1.42	122	241,590	1.40	124
7	235,010	1.42	122	241,560	1.40	124
8	234,940	1.41	121	241,520	1.40	124
9	234,870	1.41	121	241,490	1.40	124
10	234,800	1.41	121	241,450	1.41	124
11	234,730	1.41	121	241,410	1.41	125
12	234,660	1.41	121	241,380	1.42	125
13	234,590	1.42	122	241,340	1.42	126
14	234,520	1.42	122	241,310	1.42	126
15	234,460	1.42	122	241,270	1.43	126
16	234,390	1.42	122	241,230	1.43	127
17	234,310	1.43	123	241,200	1.43	127
18	234,230	1.43	123	241,170	1.43	127
19	234,160	1.44	123	241,130	1.43	127
20	234,080	1.44	124	241,100	1.43	126
21	234,000	1.45	124	241,060	1.43	126
22	233,920	1.45	124	241,030	1.43	126
23	233,840	1.46	125	241,000	1.43	126
24	233,770	1.46	125	240,960	1.43	126
25	233,700	1.46	125	240,920	1.43	126
26	233,630	1.46	125	240,870	1.43	126
27	233,550	1.46	125	240,830	1.43	126
28	233,480	1.46	125	240,790	1.44	127
29	233,410	1.46	125	240,750	1.44	127
30	233,340	1.46	125	240,710	1.44	127
31	233,260	1.46	124	240,670	1.44	127
Avg	234,360	1.43	123	241,230	1.42	125
n	31	31	31	31	31	31
SD	646	0.02	1	324	0.02	1
Min	233,260	1.41	121	240,670	1.39	123
Max	235,420	1.46	125	241,770	1.44	127

Table F2. Daily means of animal characteristics at site IN2B for November, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	233,180	1.45	124	240,620	1.44	127
2	233,100	1.45	124	240,580	1.44	127
3	233,020	1.45	123	240,540	1.44	126
4	232,940	1.44	123	240,500	1.43	126
5	232,860	1.44	123	240,460	1.43	126
6	232,780	1.44	123	240,420	1.43	126
7	232,700	1.43	122	240,380	1.43	126
8	232,610	1.43	122	240,340	1.43	126
9	232,530	1.43	122	240,300	1.44	126
10	232,450	1.42	121	240,260	1.44	127
11	232,360	1.42	121	240,220	1.44	127
12	232,280	1.42	121	240,180	1.44	127
13	232,200	1.41	120	240,140	1.44	127
14	232,110	1.42	121	240,100	1.44	127
15	232,030	1.43	121	240,050	1.44	127
16	231,950	1.44	122	240,010	1.44	127
17	231,860	1.44	123	239,970	1.44	127
18	231,780	1.45	123	239,930	1.44	127
19	231,700	1.46	124	239,890	1.44	127
20	231,610	1.47	125	239,850	1.44	127
21	231,540	1.48	125	239,810	1.44	127
22	231,470	1.48	125	239,760	1.44	127
23	231,400	1.48	125	239,710	1.44	127
24	231,330	1.48	125	239,660	1.44	126
25	231,260	1.48	125	239,610	1.44	126
26	231,180	1.48	125	239,560	1.44	126
27	231,110	1.48	125	239,520	1.44	126
28	231,040	1.48	125	239,470	1.42	125
29	230,970	1.48	125	239,430	1.39	122
30	230,900	1.47	125	239,380	1.36	120
Avg	232,010	1.45	123	240,020	1.43	126
n	30	30	30	30	30	30
SD	691	0.02	2	368	0.02	2
Min	230,900	1.41	120	239,380	1.36	120
Max	233,180	1.48	125	240,620	1.44	127

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Table F2. Daily means of animal characteristics at site IN2B for December, 2009.

Day	House 8			House 9		
	Inv., hens	Mass, kg	$kg \cdot m^{-2}$	Inv., hens	Mass, kg	$kg \cdot m^{-2}$
1	230,830	1.47	125	239,340	1.34	117
2	230,750	1.47	125	239,300	1.31	115
3	230,680	1.47	124	239,250	1.28	112
4	230,610	1.47	124	239,210	1.25	110
5	230,540	1.47	124	239,160	1.24	108
6	230,470	1.47	124	239,110	1.24	108
7	230,400	1.48	125	239,060	1.24	108
8	230,340	1.48	125	239,010	1.24	108
9	230,270	1.48	125	238,960	1.24	108
10	230,200	1.48	125	238,910	1.24	108
11	230,130	1.48	125	238,860	1.24	108
12	230,060	1.49	125	238,810	1.24	108
13	229,990	1.49	125	238,760	1.24	108
14	229,920	1.49	125	238,710	1.24	108
15	229,850	1.49	126	238,660	1.24	108
16	229,780	1.49	126	238,610	1.23	108
17	229,710	1.50	126	238,560	1.23	108
18	229,640	1.50	126	238,510	1.23	108
19	229,570	1.50	126	238,460	1.24	108
20	229,500	1.50	126	238,410	1.25	109
21	229,430	1.50	126	238,360	1.26	110
22	229,360	1.50	126	238,320	1.26	110
23	229,290	1.50	126	238,270	1.27	111
24	229,220	1.50	126	238,220	1.28	112
25	229,140	1.50	126	238,180	1.29	113
26	229,070	1.50	126	238,140	1.30	113
27	228,980	1.49	125	238,110	1.31	114
28	228,900	1.48	124	238,080	1.32	115
29	228,820	1.47	123	238,050	1.33	116
30	228,730	1.46	122	238,030	1.34	117
31	228,650	1.45	121	238,000	1.35	118
Avg	229,770	1.48	125	238,630	1.27	111
n	31	31	31	31	31	31
SD	638	0.01	1	420	0.04	3
Min	228,650	1.45	121	238,000	1.23	108
Max	230,830	1.50	126	239,340	1.35	118

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Table F3. Building environment.

Table F3. Daily means (SD) of environmental parameters at site IN2B for January, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	21.2 (0.9)		-49.5 (8.8)		24.0 (0.4)	56.8 (4.2)	-51.6 (9.8)	
2	20.0 (0.4)		-38.1 (5.7)		23.7 (0.5)	64.4 (2.9)	-38.1 (8.3)	
3	21.7 (1.1)		-34.2 (5.3)	78.5 (16.6)	25.4 (0.8)	57.4 (5.9)	-38.9 (6.9)	54.7 (8.6)
4	23.1 (0.7)		-41.7 (8.9)	63.6 (54.3)	26.1 (0.7)	52.4 (2.4)	-49.6 (7.1)	50.0 (10.8)
5	23.6 (0.5)		-47.8 (10.0)	9.6 (16.4)	27.0 (0.7)	52.3 (1.6)	-51.6 (3.9)	59.6 (13.9)
6	24.8 (0.9)		-51.2 (7.8)	49.8 (39.6)	27.7 (0.7)	55.6 (1.9)	-45.9 (6.1)	94.2 (29.8)
7	26.1 (1.3)		-47.0 (9.4)	197.0 (104.0)	28.2 (0.6)	56.8 (1.8)	-39.7 (7.0)	163.0 (50.5)
8	24.4 (1.2)		-36.4 (11.8)	179.0 (47.0)	27.2 (1.3)	57.5 (2.2)	-50.0 (9.6)	119.0 (51.3)
9	22.9 (0.4)		-45.6 (7.3)	103.0 (11.8)	23.7 (0.5)	52.7 (1.6)	-63.5 (7.6)	40.7 (8.0)
10	23.0 (0.8)		-45.0 (9.6)	112.0 (20.1)	24.7 (0.9)	53.5 (1.7)	-59.3 (7.7)	55.9 (24.6)
11	23.1 (0.9)		-49.8 (10.4)	101.0 (12.1)	24.7 (0.7)	52.7 (1.1)	-60.4 (5.1)	63.0 (16.9)
12	23.7 (0.6)		-31.7 (6.4)	110.0 (18.7)	24.7 (1.4)	51.9 (4.0)	-51.5 (9.1)	74.0 (31.8)
13	23.1 (1.2)		-27.5 (6.6)	110.0 (35.2)	24.3 (0.8)	54.0 (1.5)	-55.9 (4.2)	56.9 (11.8)
14	22.0 (0.9)		-34.5 (7.9)	85.8 (14.3)	23.5 (0.4)	57.2 (2.2)	-56.0 (6.9)	47.6 (7.2)
15	22.4 (0.7)		-38.2 (7.7)	75.9 (17.5)	23.1 (0.4)	61.5 (1.8)	-52.5 (8.1)	43.7 (8.6)
16	23.0 (0.6)		-35.7 (8.0)	98.1 (18.3)	24.5 (1.3)	57.5 (7.5)	-51.6 (8.2)	53.0 (19.8)
17	23.6 (0.6)		-43.6 (9.1)	99.7 (21.0)	25.2 (0.9)	53.9 (1.6)	-52.6 (4.9)	71.3 (20.6)
18	22.8 (3.3)		-39.8 (3.7)	111.0 (60.8)	24.5 (1.0)	56.1 (1.9)	-54.0 (4.5)	52.9 (20.2)
19	22.7 (0.5)		-34.9 (4.1)		23.2 (0.4)	57.8 (3.6)	-49.1 (7.0)	
20	22.7 (0.6)		-33.5 (5.1)	84.2 (12.9)	23.0 (0.6)	61.8 (1.9)	-45.0 (8.2)	56.1 (8.1)
21	23.3 (0.5)		-36.0 (8.9)	107.0 (12.5)	24.4 (0.7)	65.1 (2.7)	-50.9 (9.8)	60.2 (10.4)
22	22.9 (0.8)		-43.2 (10.7)	94.3 (20.9)	24.8 (0.7)	68.4 (2.2)	-52.6 (6.6)	59.5 (12.3)
23	22.2 (0.5)		-32.5 (4.9)	71.7 (4.9)	24.7 (0.3)	69.6 (3.6)	-47.3 (7.1)	55.7 (4.2)
24	22.7 (0.6)		-35.0 (7.0)	64.4 (4.3)	24.1 (0.3)	73.8 (3.4)	-44.7 (7.6)	49.2 (8.0)
25	23.0 (0.5)		-31.7 (4.6)	41.7 (8.8)	24.3 (0.5)	74.2 (2.4)	-44.7 (10.0)	54.7 (12.1)
26	22.8 (0.6)		-32.9 (5.6)	47.2 (4.2)	25.0 (0.7)	72.4 (2.3)	-54.3 (6.6)	65.4 (14.9)
27	22.9 (0.7)		-31.4 (4.6)	49.5 (3.0)	24.8 (0.7)	68.6 (2.7)	-53.2 (6.2)	70.8 (15.5)
28	23.9 (0.9)		-39.9 (10.6)	52.8 (11.0)	26.1 (1.0)	66.9 (1.4)	-54.5 (6.0)	83.8 (14.9)
29	25.0 (2.1)		-48.5 (11.2)	60.8 (24.2)	26.8 (1.0)	62.8 (2.7)	-51.4 (7.5)	108.0 (34.6)
30	20.8 (3.2)		-38.7 (10.9)	35.2 (18.1)	24.0 (0.7)	67.0 (5.8)	-52.1 (6.7)	51.3 (13.8)
31	24.1 (0.7)		-25.2 (5.6)	60.3 (6.6)	24.9 (0.3)	72.6 (4.1)	-47.6 (7.1)	70.6 (13.3)
Avg	23.0		-38.7	84.1	24.9	60.8	-50.7	67.3
n	31	0	31	28	31	31	31	28
SD	1.2		6.8	39.2	1.3	7.1	5.7	25.7
Min	20.0		-51.2	9.6	23.0	51.9	-63.5	40.7
Max	26.1		-25.2	197.0	28.2	74.2	-38.1	163.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for February, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	24.3 (0.5)		-32.6 (6.1)	48.7 (8.5)	25.3 (0.6)	71.3 (4.2)	-52.1 (6.8)	80.3 (12.1)
2	24.0 (0.6)		-33.6 (5.0)	43.7 (4.7)	25.4 (0.6)	71.2 (2.6)	-58.7 (7.2)	69.7 (10.5)
3	24.5 (0.8)		-30.1 (5.0)	53.4 (11.1)	25.3 (0.6)	67.8 (2.6)	-57.1 (6.2)	73.5 (7.3)
4	24.7 (0.7)		-38.6 (11.5)	54.7 (12.3)	26.5 (1.2)	68.3 (1.8)	-63.5 (7.3)	61.5 (10.2)
5	24.7 (0.7)		-39.6 (6.8)	51.6 (12.0)	27.1 (0.6)	66.3 (3.6)	-58.7 (9.9)	59.0 (10.4)
6	24.3 (0.6)		-34.4 (7.7)	43.9 (11.6)	26.8 (0.6)	64.1 (4.1)	-53.9 (9.1)	53.0 (13.9)
7	24.2 (0.9)		-29.4 (5.6)	41.8 (10.0)	25.8 (0.3)	63.8 (3.9)	-51.2 (7.4)	28.4 (17.7)
8								
9	24.4 (0.7)		-45.9 (10.4)	26.8 (14.1)	25.7 (0.6)	60.2 (2.7)	-56.5 (7.1)	20.4 (11.7)
10	22.8 (1.2)		-43.4 (6.2)	18.2 (6.5)	24.2 (1.0)	75.2 (6.8)	-44.0 (4.9)	19.7 (2.7)
11	21.7 (3.8)		-33.1 (2.6)	38.5 (13.7)	23.7 (2.9)	78.1 (5.6)	-37.4 (4.8)	33.3 (12.0)
12								
13	24.3 (0.7)		-33.2 (5.3)	40.0 (7.8)	25.8 (0.4)	78.9 (4.0)	-41.7 (7.9)	52.6 (10.1)
14	23.9 (1.1)		-38.4 (5.5)	30.1 (5.5)	25.9 (0.3)	79.6 (4.1)	-47.6 (10.6)	47.0 (10.9)
15	24.2 (0.7)		-36.6 (5.0)	35.4 (5.0)	25.7 (0.2)	80.1 (2.3)	-45.7 (7.1)	53.5 (11.4)
16	23.7 (1.3)		-36.7 (5.7)	30.6 (4.0)	26.1 (0.4)	79.1 (4.2)	-44.3 (9.1)	54.1 (11.5)
17	25.9 (1.3)		-55.0 (15.0)	60.2 (37.5)	27.6 (1.5)	77.1 (2.9)	-54.9 (8.4)	73.7 (28.9)
18	24.9 (0.6)		-48.2 (10.0)	39.7 (19.1)	26.8 (0.4)	75.6 (2.0)	-53.8 (8.0)	68.6 (8.8)
19	24.0 (0.5)		-38.0 (6.3)	40.5 (9.4)	26.4 (0.3)	75.9 (3.8)	-43.6 (6.7)	58.3 (10.8)
20	24.9 (0.3)		-27.0 (3.3)	56.4 (3.2)	26.5 (0.4)	75.3 (4.8)	-40.2 (5.7)	60.6 (9.3)
21	23.8 (2.7)		-30.3 (6.9)		26.0 (2.9)	79.1 (9.7)	-40.1 (7.6)	
22	24.0 (0.8)		-34.3 (3.6)		25.8 (0.2)	79.8 (1.6)	-44.1 (7.1)	
23								
24	23.8 (1.7)		-33.8 (4.7)		26.1 (0.8)	83.0 (6.2)	-38.6 (7.6)	
25	24.8 (0.4)		-37.4 (5.3)		26.0 (1.0)	83.6 (3.4)	-47.4 (9.0)	
26	24.4 (0.7)		-30.5 (3.1)		26.2 (0.2)	81.0 (1.7)	-43.8 (5.9)	
27	23.6 (2.2)		-31.6 (2.8)		26.0 (0.4)	82.7 (4.3)	-41.9 (7.8)	
28								
29	24.0 (0.9)		-43.0 (7.9)		26.2 (0.4)	81.9 (3.0)	-50.4 (7.7)	
Avg	24.1		-36.6	41.9	26.0	75.2	-48.4	53.7
n	25	0	25	18	25	25	25	18
SD	0.8		6.4	10.8	0.8	6.6	7.1	17.5
Min	21.7		-55.0	18.2	23.7	60.2	-63.5	19.7
Max	25.9		-27.0	60.2	27.6	83.6	-37.4	80.3

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Table F3. Daily means (SD) of environmental parameters at site IN2B for March, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	24.8 (0.5)		-33.5 (4.0)		26.2 (0.3)	73.7 (7.7)	-47.4 (6.2)	
2	25.8 (0.9)		-41.9 (10.7)		27.3 (0.6)	69.9 (3.1)	-49.3 (8.5)	
3	25.9 (1.1)		-44.2 (11.4)		27.2 (1.7)	67.6 (3.6)	-50.5 (6.9)	
4	24.9 (0.4)		-31.7 (6.5)		25.6 (0.4)	68.1 (2.9)	-41.3 (5.1)	
5	25.0 (0.5)		-30.1 (5.5)		26.0 (0.4)	68.2 (3.7)	-47.6 (8.7)	
6	25.3 (0.4)	63.6 (3.1)	-33.3 (6.3)		25.9 (0.4)	70.1 (2.9)	-50.1 (7.7)	
7	25.3 (0.5)	60.0 (4.7)	-26.7 (4.9)		25.8 (0.2)	73.0 (2.4)	-42.6 (6.1)	
8	24.7 (0.5)	61.6 (4.6)	-25.2 (5.9)	52.5 (9.0)	25.9 (0.3)	67.6 (2.3)	-41.3 (7.0)	55.3 (9.9)
9	25.1 (0.5)	59.4 (5.9)	-33.2 (6.9)	51.7 (10.9)	26.3 (0.4)	66.4 (2.3)	-48.6 (9.5)	61.2 (10.4)
10	25.4 (0.4)	61.6 (3.9)	-32.6 (5.7)	50.5 (3.9)	25.9 (0.4)	68.9 (1.5)	-51.7 (9.0)	64.6 (12.3)
11	25.5 (0.4)	67.5 (3.0)	-35.2 (8.2)	58.4 (9.1)	25.7 (0.7)	71.5 (1.4)	-53.3 (9.0)	63.4 (10.8)
12	25.3 (0.5)	63.9 (6.1)	-35.5 (7.1)	59.4 (9.9)	25.6 (0.6)	69.6 (3.7)	-55.3 (9.0)	64.7 (15.8)
13	25.6 (0.9)	59.4 (4.4)	-47.0 (11.4)	57.7 (23.0)	26.1 (1.2)	64.4 (5.6)	-58.9 (7.5)	73.7 (20.6)
14	26.0 (0.8)	56.9 (4.9)	-45.9 (9.0)	70.2 (23.7)	26.7 (1.0)	60.2 (4.4)	-58.0 (5.3)	86.0 (18.1)
15	25.0 (0.4)	58.2 (2.1)	-36.1 (5.9)	50.7 (9.9)	25.8 (0.4)	61.4 (2.0)	-57.6 (6.4)	71.2 (6.4)
16	25.2 (0.4)	60.2 (5.9)	-32.0 (6.1)	50.7 (9.2)	25.2 (0.2)	63.4 (4.7)	-56.2 (7.2)	64.1 (13.2)
17	25.3 (0.4)	63.7 (5.8)	-33.2 (7.3)	49.0 (13.3)	25.3 (0.2)	67.1 (3.0)	-59.8 (8.0)	63.2 (13.0)
18	26.4 (1.2)	64.1 (1.6)	-45.9 (12.5)	82.3 (24.9)	26.5 (1.1)	70.0 (1.4)	-55.4 (5.5)	91.3 (24.3)
19	24.9 (0.4)	60.8 (4.0)	-28.7 (4.9)	56.6 (5.3)	25.3 (0.4)	70.6 (1.5)	-56.9 (6.8)	69.8 (10.6)
20	25.0 (0.7)	63.0 (4.5)	-33.0 (6.8)	58.3 (11.2)	25.5 (0.5)	66.1 (6.8)	-53.3 (7.4)	68.4 (20.5)
21	25.4 (0.4)	63.1 (2.9)	-30.7 (5.2)	61.6 (8.8)	25.8 (0.5)	66.5 (2.0)	-53.0 (7.3)	70.7 (15.1)
22	24.9 (0.5)	62.3 (4.7)	-31.6 (5.1)	49.9 (4.0)	25.3 (0.2)	68.1 (2.8)	-54.0 (6.8)	68.9 (10.7)
23	25.1 (0.6)	57.5 (4.0)	-32.4 (7.1)	56.7 (10.9)	25.5 (0.3)	66.7 (4.6)	-53.3 (8.2)	65.8 (14.9)
24	24.8 (0.5)	57.5 (4.3)	-32.8 (7.0)	50.8 (8.0)	25.6 (0.3)	66.5 (4.6)	-53.3 (7.5)	68.9 (12.5)
25	25.6 (1.0)	57.2 (2.1)	-44.9 (13.0)	61.8 (22.4)	26.6 (0.8)	65.4 (3.8)	-54.5 (5.5)	83.4 (24.3)
26	25.5 (0.7)	56.6 (4.8)	-39.8 (8.1)	66.6 (15.9)	26.1 (0.7)	62.5 (3.8)	-54.3 (5.5)	79.7 (13.6)
27	25.4 (0.5)	58.3 (3.7)	-38.2 (6.5)	63.8 (10.5)	25.9 (0.4)	63.3 (2.7)	-54.4 (7.2)	78.3 (14.9)
28	25.0 (0.4)	57.3 (5.9)	-29.8 (5.5)	62.0 (11.4)	25.3 (0.3)	64.5 (4.2)	-52.1 (8.4)	
29	25.4 (0.6)	61.0 (3.0)	-31.2 (7.1)	63.7 (12.7)	25.6 (0.5)	64.3 (4.5)	-52.6 (9.2)	65.5 (16.4)
30	26.2 (0.9)	63.4 (1.8)	-37.2 (11.3)	68.9 (13.2)	26.2 (0.9)	63.2 (2.4)	-55.2 (8.4)	78.5 (22.3)
31	28.5 (1.0)	65.6 (1.2)	-54.1 (5.8)	117.0 (29.3)	27.9 (0.5)	67.1 (1.7)	-44.5 (7.1)	160.0 (40.7)
Avg	25.4	60.9	-35.7	61.3	26.0	67.0	-52.1	74.6
n	31	26	31	24	31	31	31	23
SD	0.7	2.9	6.6	14.0	0.6	3.2	4.8	20.1
Min	24.7	56.6	-54.1	49.0	25.2	60.2	-59.8	55.3
Max	28.5	67.5	-25.2	117.0	27.9	73.7	-41.3	160.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for April, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.0 (1.0)	64.9 (1.3)	-40.4 (13.2)	56.3 (21.1)	26.2 (1.0)	67.1 (2.1)	-55.7 (8.7)	86.0 (31.3)
2	25.5 (0.7)	61.3 (3.6)	-29.0 (5.6)	60.3 (5.6)	25.7 (0.7)	65.1 (4.2)	-54.2 (8.6)	67.5 (16.9)
3	26.0 (1.0)	58.5 (4.4)	-30.7 (5.6)		26.1 (0.9)	63.5 (4.1)	-53.2 (7.4)	
4	25.9 (0.6)	62.4 (1.9)	-31.9 (4.4)		26.2 (0.6)	65.6 (1.9)	-54.1 (6.7)	
5	26.6 (1.3)	60.6 (4.8)	-36.9 (9.5)		26.7 (0.9)	60.8 (6.5)	-51.2 (6.5)	
6	27.2 (1.4)	56.3 (6.0)	-36.7 (8.5)		26.9 (1.1)	55.1 (5.7)	-49.8 (8.6)	
7	27.3 (1.5)	53.7 (6.5)	-40.4 (10.8)		27.2 (1.2)	55.4 (6.2)	-52.5 (7.8)	
8	27.3 (1.7)	55.3 (3.4)	-38.9 (12.4)		27.3 (1.5)	58.0 (4.2)	-54.2 (8.2)	
9	25.8 (1.0)	57.7 (1.8)	-33.2 (9.1)		26.4 (0.8)	63.0 (1.8)	-62.3 (7.2)	
10	25.8 (1.2)	61.6 (2.0)	-20.9 (4.5)		26.6 (0.8)	67.5 (1.5)	-56.8 (6.4)	
11	26.9 (2.2)	58.5 (6.1)	-43.3 (13.4)	117.0 (50.9)	27.8 (1.5)	63.5 (4.0)	-51.8 (8.0)	158.0 (59.3)
12	23.2 (0.7)	61.0 (2.7)	-24.7 (4.8)	65.6 (2.4)	26.0 (0.7)	67.1 (2.4)	-58.3 (5.3)	87.1 (11.7)
13	23.4 (0.8)	61.5 (3.8)	-16.4 (3.5)	70.3 (10.0)	25.9 (0.7)	65.0 (4.0)	-51.0 (10.0)	79.1 (20.2)
14	23.7 (1.0)	57.2 (5.7)	-18.6 (5.2)	69.9 (2.9)	26.2 (0.4)	61.7 (5.4)	-53.2 (8.5)	78.9 (18.5)
15	24.6 (1.3)	53.4 (6.7)	-27.1 (10.6)	77.1 (15.6)	26.6 (1.1)	60.5 (5.4)	-53.8 (7.3)	86.9 (29.3)
16	25.9 (1.5)	47.2 (4.4)	-34.6 (12.3)	110.0 (49.3)	27.6 (1.3)	51.9 (6.5)	-48.2 (12.4)	144.0 (75.9)
17	26.8 (1.9)	46.9 (4.2)	-26.0 (9.2)	171.0 (109.0)	28.1 (1.4)	49.2 (3.8)	-38.1 (18.4)	201.0 (103.0)
18	27.3 (1.7)	45.8 (6.0)	-31.1 (7.1)	164.0 (97.7)	28.5 (0.9)	50.3 (5.6)	-47.3 (9.3)	172.0 (56.3)
19	25.7 (0.9)	55.0 (3.2)	-25.6 (4.1)	78.5 (15.1)	27.4 (0.7)	61.3 (3.3)	-56.9 (2.9)	116.0 (17.5)
20	26.0 (1.7)	55.5 (4.3)	-26.5 (8.8)	106.0 (49.7)	27.3 (1.1)	61.4 (5.0)	-52.2 (6.2)	128.0 (41.7)
21	26.3 (1.5)	53.2 (8.1)	-32.9 (13.2)	120.0 (58.1)	27.8 (1.0)	59.1 (8.4)	-58.2 (5.5)	138.0 (44.2)
22	27.3 (1.5)	51.1 (6.8)	-34.9 (12.3)	153.0 (74.7)	27.9 (1.1)	56.5 (8.0)	-53.6 (9.3)	156.0 (59.1)
23	27.7 (1.3)	50.0 (3.9)	-34.5 (8.5)	203.0 (119.0)	28.4 (0.9)	55.2 (4.8)	-50.0 (10.1)	180.0 (66.1)
24	27.1 (1.5)	41.5 (8.4)	-31.3 (11.5)		27.9 (1.2)	44.8 (9.1)	-52.6 (8.3)	
25	28.5 (1.1)	52.0 (5.3)	-41.1 (7.1)	279.0 (127.0)	29.3 (0.9)	57.5 (5.8)	-44.8 (8.2)	241.0 (97.9)
26	24.6 (1.1)	49.0 (5.9)	-23.2 (7.4)	76.9 (15.8)	26.2 (1.0)	53.8 (6.8)	-56.8 (5.7)	96.8 (22.3)
27	24.5 (1.1)	45.3 (6.5)	-14.7 (3.6)	75.4 (4.9)	25.7 (0.8)	49.9 (8.0)	-52.0 (7.4)	87.8 (20.9)
28	24.1 (1.0)	52.4 (4.8)	-13.9 (4.0)		25.5 (0.7)	59.6 (5.5)	-52.6 (9.7)	
29	23.4 (1.0)	52.2 (5.9)	-11.5 (3.7)	74.3 (10.3)	25.3 (0.3)	59.6 (6.1)	-49.5 (9.8)	68.1 (12.0)
30	24.8 (1.8)	47.4 (4.7)	-28.4 (14.0)	83.6 (25.4)	26.4 (1.1)	55.6 (4.7)	-53.9 (8.7)	89.2 (31.1)
Avg	25.8	54.3	-29.3	111.0	26.9	58.8	-52.6	123.0
n	30	30	30	20	30	30	30	20
SD	1.4	5.8	8.4	56.0	1.0	5.8	4.4	47.9
Min	23.2	41.5	-43.3	56.3	25.3	44.8	-62.3	67.5
Max	28.5	64.9	-11.5	279.0	29.3	67.5	-38.1	241.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for May, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.2 (1.6)	49.8 (3.4)	-39.2 (10.1)		27.9 (1.7)	55.5 (3.0)	-48.4 (10.3)	
2	28.0 (0.9)	57.0 (3.3)	-48.0 (6.5)	184.0 (49.4)	28.9 (0.5)	61.8 (3.5)	-47.8 (6.1)	198.0 (50.1)
3	26.0 (1.1)	54.2 (5.3)	-33.5 (10.4)	100.0 (37.7)	27.3 (1.2)	60.3 (4.4)	-57.5 (5.3)	120.0 (28.2)
4	25.6 (1.3)	47.9 (8.2)	-29.5 (12.1)	99.5 (37.3)	26.6 (1.2)	53.6 (8.8)	-56.0 (5.0)	107.0 (31.6)
5	26.5 (1.4)	44.4 (5.9)	-35.0 (12.5)	136.0 (69.4)	27.6 (1.5)	50.7 (5.2)	-54.5 (6.8)	150.0 (64.3)
6	27.5 (1.6)	44.0 (7.4)	-36.3 (8.4)	213.0 (128.0)	28.4 (0.9)	47.9 (8.7)	-48.6 (10.9)	212.0 (98.0)
7	27.6 (1.3)	56.0 (5.8)	-38.4 (8.4)	140.0 (85.4)	27.9 (1.2)	60.9 (6.4)	-50.5 (7.9)	165.0 (69.5)
8	26.7 (0.4)	57.8 (3.3)	-20.0 (3.1)	73.4 (2.9)	26.6 (0.8)	63.6 (2.9)	-61.2 (4.2)	94.1 (10.7)
9	26.5 (0.6)	54.9 (3.1)	-21.8 (5.8)	70.3 (2.9)	26.5 (1.1)	59.4 (2.6)	-58.3 (4.0)	99.6 (20.1)
10	26.9 (1.2)	51.1 (5.9)	-27.3 (11.3)	86.6 (25.2)	27.0 (1.3)	56.6 (4.2)	-56.3 (4.7)	116.0 (35.0)
11	26.7 (0.6)	58.8 (2.1)	-18.0 (6.9)	70.2 (3.9)	26.7 (1.0)	66.7 (2.7)	-57.4 (4.7)	101.0 (13.8)
12	26.3 (1.0)	56.9 (4.3)	-17.4 (6.2)	70.3 (5.7)	26.0 (1.3)	61.4 (5.7)	-56.5 (4.9)	92.6 (20.7)
13	27.2 (1.2)	55.6 (7.3)	-32.3 (16.0)	104.0 (50.9)	27.4 (1.6)	56.8 (8.3)	-57.0 (4.1)	134.0 (49.7)
14	27.0 (0.7)	62.0 (2.0)	-33.8 (11.6)	80.2 (18.7)	27.4 (0.9)	64.3 (3.2)	-58.7 (3.5)	117.0 (23.6)
15	27.1 (0.5)	57.8 (3.0)	-33.5 (5.9)	68.0 (7.3)	26.4 (1.0)	62.5 (3.2)	-60.0 (3.9)	95.0 (17.7)
16	27.4 (0.8)	53.9 (5.9)	-40.7 (10.9)		27.0 (1.1)	57.3 (7.7)	-57.4 (4.4)	124.0 (40.5)
17	27.9 (0.8)	49.9 (6.5)	-45.9 (10.5)		27.8 (0.8)	50.2 (7.8)	-53.0 (7.2)	159.0 (44.8)
18	26.5 (0.3)	52.4 (4.1)	-27.5 (4.3)		26.4 (0.6)	54.5 (4.9)	-57.3 (4.0)	96.6 (13.5)
19	26.7 (0.7)	50.2 (5.6)	-34.0 (8.2)		26.5 (0.9)	53.1 (6.4)	-57.2 (4.9)	100.0 (23.4)
20	26.5 (0.4)	50.2 (3.1)	-33.1 (7.0)		26.4 (0.8)	55.8 (1.9)	-59.4 (3.3)	93.5 (14.3)
21	26.4 (0.5)	49.7 (3.4)	-30.9 (5.3)		26.3 (1.0)	54.9 (3.9)	-58.2 (3.6)	97.5 (21.5)
22	27.0 (0.8)	48.9 (3.2)	-36.2 (9.8)		26.8 (1.2)	54.6 (3.1)	-56.2 (5.0)	
23	27.3 (0.8)	52.7 (3.1)	-41.3 (11.4)		27.2 (1.0)	57.9 (3.4)	-57.6 (4.5)	125.0 (36.2)
24	27.4 (1.1)	49.2 (6.1)	-42.5 (11.6)	105.0 (49.4)	27.4 (1.0)	52.5 (7.9)	-55.9 (6.5)	141.0 (50.5)
25	28.5 (1.5)	45.9 (6.9)	-41.7 (10.0)	173.0 (103.0)	28.1 (1.4)	48.8 (7.5)	-44.2 (14.2)	205.0 (105.0)
26	29.7 (0.8)	54.4 (4.4)	-48.2 (5.4)	226.0 (94.6)	28.9 (0.9)	59.5 (6.7)	-38.9 (7.1)	247.0 (96.0)
27	27.4 (0.8)	56.2 (4.6)	-37.2 (9.8)	92.3 (24.7)	27.2 (1.2)	64.9 (8.9)	-53.4 (7.0)	117.0 (24.7)
28	26.7 (0.8)	45.7 (6.8)	-33.5 (12.0)	83.8 (25.8)	26.2 (1.3)	49.4 (8.8)	-56.8 (3.9)	104.0 (34.0)
29	27.6 (1.4)	40.9 (7.6)	-41.7 (15.0)	121.0 (57.5)	27.2 (1.6)	43.9 (9.6)	-53.9 (4.9)	148.0 (63.9)
30	28.9 (1.7)	51.4 (6.8)	-44.1 (9.9)	193.0 (121.0)	28.8 (1.2)	54.5 (7.1)	-49.3 (10.2)	238.0 (128.0)
31	29.3 (0.9)	57.8 (7.3)	-51.7 (7.7)	179.0 (59.4)	28.9 (0.6)	60.4 (7.6)	-48.7 (6.1)	227.0 (64.3)
Avg	27.2	52.2	-35.3	121.0	27.3	56.6	-54.4	139.0
n	31	31	31	22	31	31	31	29
SD	0.9	4.9	8.5	49.9	0.8	5.4	5.0	47.1
Min	25.6	40.9	-51.7	68.0	26.0	43.9	-61.2	92.6
Max	29.7	62.0	-17.4	226.0	28.9	66.7	-38.9	247.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for June, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	28.7 (1.1)	50.2 (5.9)	-43.4 (9.4)	146.0 (71.9)	28.6 (0.5)	52.8 (7.4)	-49.4 (8.3)	206.0 (70.1)
2	28.9 (1.6)	49.7 (6.6)	-40.1 (9.5)	225.0 (150.0)	28.8 (1.1)	53.3 (8.3)	-47.4 (10.8)	270.0 (151.0)
3	29.0 (1.4)	62.3 (2.4)	-52.8 (7.4)	171.0 (53.7)	28.8 (0.6)	66.0 (2.9)	-55.3 (9.8)	205.0 (57.6)
4	30.1 (0.8)	63.5 (3.4)	-49.9 (7.0)	232.0 (90.2)	29.2 (0.7)	67.2 (4.2)	-45.4 (7.1)	268.0 (92.7)
5	31.0 (1.3)	61.8 (4.3)	-45.5 (5.9)	369.0 (140.0)	30.4 (1.5)	64.4 (4.8)	-42.4 (6.1)	396.0 (141.0)
6	30.4 (2.1)	59.5 (6.1)	-45.8 (3.4)	375.0 (109.0)	30.4 (2.1)	61.2 (5.8)	-40.0 (3.2)	361.0 (118.0)
7	28.4 (1.1)	67.3 (3.5)	-44.1 (2.6)	370.0 (83.0)	28.7 (0.6)	68.1 (3.0)	-39.0 (2.3)	351.0 (90.3)
8	30.7 (2.2)	60.7 (8.0)	-41.4 (2.4)	449.0 (53.4)	30.8 (2.0)	62.2 (7.3)	-37.7 (1.4)	456.0 (75.3)
9	29.5 (1.7)	62.1 (6.6)	-32.0 (10.1)	411.0 (91.2)	28.8 (2.3)	64.9 (7.7)	-37.4 (3.1)	511.0 (58.9)
10	27.6 (1.1)	58.7 (9.8)	-23.8 (19.5)	249.0 (97.4)	25.6 (2.5)	63.5 (11.3)	-32.4 (13.3)	371.0 (138.0)
11	29.4 (1.3)	52.3 (7.6)	-48.2 (6.0)	341.0 (143.0)	29.1 (1.1)	55.6 (8.7)	-46.3 (6.1)	321.0 (155.0)
12	30.2 (1.9)	55.2 (4.2)	-48.3 (7.0)	375.0 (137.0)	30.0 (1.7)	57.8 (4.5)	-45.9 (6.5)	369.0 (146.0)
13	29.3 (0.5)	65.8 (1.7)	-48.3 (5.3)	292.0 (71.2)	29.0 (0.6)	68.9 (2.6)	-45.9 (5.9)	271.0 (68.4)
14	28.8 (0.7)	51.0 (12.3)	-45.8 (8.4)	297.0 (126.0)	28.5 (0.5)	54.8 (13.5)	-46.7 (8.8)	273.0 (112.0)
15	28.8 (1.3)	50.9 (6.3)	-47.5 (6.7)	264.0 (133.0)	28.7 (1.1)	54.5 (7.3)	-49.1 (8.6)	302.0 (144.0)
16	27.6 (1.1)	53.2 (7.8)	-45.3 (8.7)	183.0 (76.8)	27.9 (0.8)	56.9 (8.5)	-54.2 (7.1)	
17	26.7 (1.2)	50.0 (6.8)	-45.7 (11.1)	143.0 (45.5)	27.4 (0.8)	53.4 (7.3)	-60.0 (4.3)	151.0 (38.7)
18	26.9 (1.0)	48.3 (5.8)	-43.8 (9.5)	156.0 (61.4)	27.7 (0.7)	51.4 (6.4)	-56.0 (7.6)	173.0 (53.9)
19	27.2 (1.5)	47.9 (8.0)	-42.1 (9.3)	199.0 (104.0)	27.5 (1.0)	51.2 (8.6)	-55.0 (8.8)	205.0 (97.2)
20	28.2 (1.5)	43.0 (7.4)	-40.7 (7.8)	298.0 (161.0)	28.3 (1.0)	46.7 (9.0)	-48.6 (12.4)	286.0 (150.0)
21	28.5 (0.9)	54.1 (3.6)	-48.7 (6.0)	218.0 (77.2)	28.3 (0.6)	58.2 (4.2)	-49.8 (7.1)	208.0 (61.2)
22	27.5 (1.1)	53.5 (6.3)	-43.3 (9.2)	177.0 (95.9)	27.9 (0.7)	57.7 (7.0)	-49.9 (8.8)	184.0 (72.9)
23	27.2 (1.2)	55.5 (6.3)	-42.8 (9.4)	167.0 (71.6)	27.4 (1.3)	63.8 (10.9)	-50.2 (5.8)	179.0 (59.7)
24	27.6 (1.5)	55.2 (7.1)	-41.9 (8.3)	205.0 (103.0)	27.9 (0.7)	60.5 (7.9)	-48.2 (9.2)	195.0 (75.2)
25	28.7 (0.9)	61.0 (2.8)	-48.3 (6.6)	257.0 (96.0)	28.8 (0.7)	64.9 (3.0)	-43.1 (7.2)	261.0 (94.9)
26	29.2 (0.8)	64.9 (2.2)	-47.9 (5.1)	281.0 (82.9)	29.9 (16.0)	67.8 (3.0)	-39.9 (3.9)	289.0 (92.6)
27	29.3 (0.8)	65.9 (3.0)	-46.8 (6.5)	302.0 (117.0)	28.8 (1.0)	69.9 (3.9)	-43.0 (5.4)	303.0 (116.0)
28	29.0 (0.9)	59.4 (10.4)	-43.6 (5.6)	299.0 (104.0)	28.7 (1.0)	63.1 (11.8)	-43.4 (6.4)	292.0 (108.0)
29	27.0 (1.1)	58.4 (5.2)	-35.4 (8.1)		27.8 (0.6)	59.4 (4.5)	-48.0 (6.2)	
30	27.1 (1.6)	52.8 (10.6)	-36.5 (13.9)		27.5 (0.7)	53.2 (8.6)	-51.9 (6.6)	
Avg	28.6	56.5	-43.6	266.0	28.6	59.8	-46.7	284.0
n	30	30	30	28	30	30	30	27
SD	1.2	6.2	5.7	84.4	1.1	6.1	6.1	87.2
Min	26.7	43.0	-52.8	143.0	25.6	46.7	-60.0	151.0
Max	31.0	67.3	-23.8	449.0	30.8	69.9	-32.4	511.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for July, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	28.1 (1.7)	47.1 (7.1)	-40.1 (9.6)		27.8 (1.4)	48.5 (7.0)	-52.1 (9.6)	
2	29.8 (1.5)	54.0 (4.7)	-44.6 (6.3)		29.3 (1.6)	57.7 (5.3)	-45.3 (6.7)	
3	28.9 (0.7)	59.5 (4.6)	-47.5 (7.4)		27.7 (0.6)	64.0 (5.0)	-49.0 (4.2)	
4	28.4 (1.0)	54.2 (7.9)	-42.8 (9.5)		27.8 (0.9)	57.5 (8.0)	-50.7 (7.4)	
5	28.4 (1.0)	52.5 (6.7)	-40.7 (8.0)		28.2 (0.9)	55.1 (6.8)	-51.6 (8.5)	
6	29.2 (1.4)	54.5 (4.0)	-40.5 (7.0)		28.9 (1.3)	57.4 (4.0)	-46.8 (8.9)	
7	29.9 (0.8)	60.8 (2.5)	-46.1 (5.9)		29.2 (1.2)	64.1 (3.2)	-43.0 (3.9)	
8	30.2 (0.6)	66.0 (2.9)	-42.2 (9.7)		29.6 (0.9)	69.1 (3.6)	-39.5 (5.0)	
9								
10	27.8 (3.7)	54.9 (5.8)	-43.9 (7.2)		28.7 (1.3)	58.0 (5.0)	-47.5 (9.1)	
11	29.9 (1.2)	59.5 (3.3)	-44.8 (5.9)		29.5 (1.5)	63.5 (2.8)	-44.5 (5.6)	
12	30.2 (0.5)	65.5 (4.0)	-43.8 (7.4)		30.2 (0.6)	68.1 (4.3)	-40.3 (7.7)	
13								
14	28.6 (1.1)	50.9 (6.1)	-39.2 (6.7)		29.2 (1.0)	56.2 (7.1)	-27.7 (9.7)	
15	29.9 (1.6)	52.6 (5.9)	-40.8 (5.5)		30.0 (1.5)	56.9 (6.8)	-35.5 (7.2)	
16	30.6 (1.2)	59.9 (5.0)	-43.4 (6.3)		30.4 (1.4)	62.5 (5.7)	-42.5 (5.4)	
17	30.0 (1.9)	60.0 (7.2)	-43.3 (4.9)		29.6 (2.1)	62.7 (7.0)	-41.7 (4.5)	
18	28.9 (2.8)	57.8 (9.7)	-42.3 (1.7)		28.3 (3.0)	61.1 (9.6)	-40.3 (1.2)	
19	29.0 (0.8)	64.9 (3.1)	-41.0 (4.3)		28.1 (1.4)	69.4 (2.6)	-39.0 (2.0)	
20	29.1 (1.0)	65.6 (5.2)	-41.3 (4.1)		28.9 (1.1)	68.1 (5.5)	-37.9 (3.3)	
21	28.9 (0.7)	66.8 (5.5)	-43.3 (6.4)		28.5 (0.8)	69.2 (5.2)	-39.0 (4.6)	
22	28.9 (0.7)	59.9 (5.8)	-43.8 (8.2)		28.3 (0.9)	64.2 (6.0)	-43.7 (8.3)	
23	28.2 (0.8)	54.3 (7.8)	-38.7 (7.8)		28.6 (0.9)	59.1 (7.3)	-47.9 (9.6)	
24	28.2 (1.1)	50.0 (8.8)	-40.1 (7.3)	244.0 (138.0)	28.7 (0.9)	54.7 (8.7)	-50.2 (10.8)	207.0 (90.5)
25	28.6 (1.2)	57.0 (4.9)	-41.7 (8.3)	267.0 (146.0)	29.0 (1.0)	61.1 (5.1)	-50.9 (8.9)	245.0 (116.0)
26	29.4 (0.8)	59.6 (8.3)	-43.6 (8.2)	344.0 (154.0)	29.3 (0.8)	63.9 (8.8)	-42.6 (8.5)	306.0 (139.0)
27	28.5 (1.0)	51.6 (6.8)	-40.0 (7.3)	272.0 (155.0)	29.0 (0.9)	55.5 (7.9)	-48.8 (9.6)	258.0 (123.0)
28	29.2 (1.0)	58.3 (2.6)	-43.7 (6.1)	342.0 (145.0)	29.3 (1.0)	62.6 (3.1)	-43.5 (7.4)	295.0 (131.0)
29	30.0 (1.5)	58.1 (7.0)	-43.2 (6.3)	375.0 (134.0)	29.9 (1.7)	61.7 (8.6)	-42.4 (6.1)	348.0 (148.0)
30	29.1 (0.7)	67.2 (2.9)	-41.0 (5.1)	321.0 (110.0)	29.5 (0.8)	67.1 (3.6)	-42.8 (5.4)	294.0 (110.0)
31	29.5 (1.5)	65.4 (7.0)	-41.3 (7.0)	329.0 (143.0)	29.5 (1.5)	66.2 (8.3)	-43.4 (6.9)	310.0 (156.0)
Avg	29.2	58.2	-42.4	312.0	29.0	61.6	-43.8	283.0
n	29	29	29	8	29	29	29	8
SD	0.7	5.5	2.0	42.3	0.7	5.1	5.3	41.2
Min	27.8	47.1	-47.5	244.0	27.7	48.5	-52.1	207.0
Max	30.6	67.2	-38.7	375.0	30.4	69.4	-27.7	348.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for August, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	29.3 (1.8)	68.4 (5.1)	-41.9 (5.7)	395.0 (154.0)	29.0 (1.9)	70.8 (4.9)	-42.0 (6.0)	386.0 (168.0)
2	26.4 (2.1)	60.5 (13.1)	-34.9 (2.5)	503.0 (58.6)	26.5 (1.8)	62.8 (11.2)	-33.0 (1.7)	514.0 (72.1)
3	26.4 (2.6)	60.2 (9.8)	-39.9 (2.8)	427.0 (101.0)	26.7 (2.1)	61.3 (8.1)	-39.1 (2.0)	446.0 (125.0)
4	26.8 (2.0)	67.6 (3.4)	-40.3 (3.7)	467.0 (52.9)	27.0 (2.1)	69.6 (3.4)	-37.5 (3.4)	422.0 (80.1)
5								
6	28.9 (0.8)	60.4 (9.8)	-43.4 (8.1)	375.0 (150.0)	28.7 (1.1)	65.8 (10.5)	-42.7 (8.6)	292.0 (126.0)
7	27.8 (0.7)	57.8 (5.0)	-41.1 (7.1)	289.0 (142.0)	28.6 (0.9)	64.0 (6.0)	-49.6 (9.7)	200.0 (70.9)
8	27.4 (0.8)	54.4 (5.7)	-38.4 (8.7)	223.0 (113.0)	28.3 (0.7)	60.1 (6.4)	-53.7 (8.0)	155.0 (44.3)
9	27.3 (1.0)	56.2 (4.4)	-38.5 (8.7)	222.0 (118.0)	28.4 (0.7)	57.4 (4.4)	-54.1 (7.7)	154.0 (49.6)
10	26.9 (0.7)	52.2 (5.3)	-37.4 (9.7)	166.0 (73.5)	28.0 (0.4)	53.4 (5.2)	-56.1 (6.7)	128.0 (28.6)
11	28.0 (1.6)	53.8 (5.3)	-37.8 (11.2)	172.0 (83.0)	28.6 (0.9)	57.0 (5.9)	-57.5 (6.1)	152.0 (48.4)
12	28.6 (1.0)	55.4 (6.2)	-38.2 (8.2)	208.0 (101.0)	29.3 (0.8)	60.3 (7.1)	-55.5 (7.6)	170.0 (61.4)
13	28.5 (1.0)	58.0 (4.4)	-41.8 (9.4)	171.0 (55.2)	28.7 (0.4)	62.9 (3.8)	-55.3 (5.9)	137.0 (27.5)
14	28.4 (0.9)	58.5 (5.5)	-37.9 (9.9)	186.0 (95.2)	28.9 (0.8)	65.5 (6.3)	-57.1 (7.1)	153.0 (56.1)
15	28.3 (0.9)	53.9 (9.3)	-36.8 (10.0)	182.0 (94.3)	28.9 (0.8)	59.3 (9.3)	-58.6 (7.3)	146.0 (54.6)
16	28.3 (0.9)	53.1 (7.1)	-34.9 (8.3)	202.0 (115.0)	29.0 (0.9)	56.8 (7.5)	-56.3 (8.6)	164.0 (70.3)
17	28.3 (1.2)	54.2 (8.1)	-37.8 (9.6)	226.0 (122.0)	29.3 (0.8)	56.3 (7.8)	-54.8 (9.4)	183.0 (81.8)
18	28.9 (1.2)	56.3 (4.2)	-40.4 (6.3)	266.0 (141.0)	29.8 (0.8)	59.9 (4.7)	-52.3 (9.2)	213.0 (103.0)
19	29.0 (1.1)	57.2 (6.8)	-36.4 (6.4)	275.0 (163.0)	29.7 (0.9)	60.8 (8.0)	-52.2 (11.3)	227.0 (125.0)
20	27.8 (1.2)	51.7 (9.0)	-34.4 (8.9)	211.0 (134.0)	29.0 (1.0)	51.8 (8.7)	-54.4 (11.0)	168.0 (84.5)
21	28.5 (1.6)	60.5 (3.7)	-37.6 (8.1)	271.0 (143.0)	29.6 (1.3)	60.5 (4.1)	-51.5 (9.5)	228.0 (112.0)
22	29.5 (0.6)	65.9 (3.5)	-42.4 (5.0)	307.0 (92.9)	30.2 (0.7)	67.4 (4.3)	-48.0 (5.5)	255.0 (71.9)
23	30.6 (1.7)	61.4 (7.6)	-41.3 (4.5)	365.0 (140.0)	30.9 (1.4)	65.0 (8.5)	-46.6 (7.0)	329.0 (146.0)
24	29.1 (1.0)	56.3 (8.7)	-39.1 (9.0)	287.0 (136.0)	29.8 (0.9)	59.6 (9.7)	-47.8 (8.2)	235.0 (89.7)
25	27.7 (1.2)	54.9 (6.4)	-34.8 (10.1)	165.0 (84.9)	29.0 (1.0)	56.8 (8.0)	-58.4 (5.7)	141.0 (46.0)
26	27.5 (1.3)	55.2 (10.1)	-32.7 (11.1)	181.0 (118.0)	28.8 (1.1)	56.1 (8.1)	-53.9 (9.4)	140.0 (63.9)
27	28.9 (1.4)	57.9 (6.1)	-36.2 (7.8)	264.0 (173.0)	29.9 (1.0)	61.2 (8.0)	-51.9 (10.8)	200.0 (108.0)
28	28.6 (1.0)	65.3 (2.9)	-38.6 (6.5)	241.0 (122.0)	29.9 (0.8)	64.8 (5.2)	-52.9 (9.8)	190.0 (82.1)
29	29.5 (1.2)	58.0 (12.0)	-41.5 (6.9)	333.0 (159.0)	30.3 (0.9)	59.7 (10.1)	-46.1 (12.5)	247.0 (115.0)
30	29.1 (1.4)	46.2 (9.6)	-37.6 (8.1)	299.0 (186.0)	29.8 (1.1)	51.5 (11.1)	-49.6 (12.8)	220.0 (123.0)
31	29.5 (1.7)	44.1 (8.0)	-38.8 (7.4)	306.0 (186.0)	30.2 (1.3)	48.5 (10.4)	-51.0 (11.1)	249.0 (152.0)
Avg	28.3	57.2	-38.4	273.0	29.0	60.2	-50.6	228.0
n	30	30	30	30	30	30	30	30
SD	1.0	5.3	2.6	90.2	1.0	5.1	6.3	97.7
Min	26.4	44.1	-43.4	165.0	26.5	48.5	-58.6	128.0
Max	30.6	68.4	-32.7	503.0	30.9	70.8	-33.0	514.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for September, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	29.5 (1.8)	41.9 (9.6)	-37.0 (8.1)	306.0 (197.0)	30.2 (1.4)	45.8 (10.4)	-50.9 (12.3)	253.0 (164.0)
2	30.4 (2.3)	49.9 (8.7)	-37.0 (6.6)	367.0 (192.0)	31.2 (1.8)	53.5 (9.6)	-44.6 (13.8)	306.0 (175.0)
3	30.1 (1.6)	57.6 (4.9)	-42.4 (5.5)	335.0 (156.0)	30.4 (1.5)	61.6 (5.2)	-47.5 (11.3)	275.0 (160.0)
4	29.4 (0.6)	63.9 (2.6)	-46.8 (3.7)	233.0 (61.7)	29.9 (0.5)	69.1 (3.5)	-56.9 (8.6)	170.0 (28.6)
5	28.8 (0.6)	61.9 (3.1)	-43.6 (9.0)	178.0 (50.2)	29.5 (0.6)	68.3 (3.6)	-62.9 (6.3)	154.0 (23.5)
6	28.0 (0.8)	55.4 (6.0)	-35.2 (12.7)	146.0 (77.7)	28.5 (1.2)	62.5 (8.7)	-66.6 (8.0)	136.0 (36.4)
7	27.9 (0.7)	54.6 (5.9)	-34.2 (12.0)	128.0 (55.2)	28.8 (0.7)	60.6 (7.9)	-63.0 (6.7)	121.0 (23.5)
8								
9								
10								
11	28.3 (1.2)	53.5 (6.8)	-35.6 (13.3)	200.0 (122.0)	28.9 (1.5)	58.4 (8.4)	-54.7 (6.6)	153.0 (70.6)
12	29.3 (0.7)	68.1 (1.7)	-47.1 (7.5)	213.0 (57.3)	29.8 (0.2)	73.9 (2.0)	-55.8 (3.1)	168.0 (21.7)
13	30.1 (1.4)	64.7 (6.5)	-43.5 (4.7)	352.0 (126.0)	30.9 (0.9)	67.7 (8.3)	-48.0 (7.2)	288.0 (131.0)
14	28.7 (1.1)	64.6 (2.0)	-40.2 (8.9)	228.0 (93.1)	29.8 (0.9)	68.6 (2.1)	-53.7 (6.8)	177.0 (53.2)
15	27.6 (0.7)	58.8 (3.5)	-29.3 (8.9)	107.0 (37.1)	28.7 (0.6)	64.3 (4.3)	-64.5 (3.1)	105.0 (15.8)
16	27.6 (0.8)	54.9 (6.0)	-30.8 (12.6)	112.0 (47.5)	28.4 (0.8)	61.5 (6.1)	-63.6 (3.4)	98.6 (22.3)
17	27.9 (1.3)	55.1 (7.5)	-34.7 (13.5)	185.0 (117.0)	28.9 (1.2)	58.6 (7.2)	-58.0 (8.4)	143.0 (65.9)
18								
19	27.7 (1.2)	50.7 (6.9)	-32.3 (12.7)	162.0 (104.0)	28.4 (1.5)	57.9 (11.0)	-54.1 (8.5)	118.0 (45.9)
20	28.2 (1.1)	52.2 (5.0)	-34.7 (9.9)	210.0 (136.0)	29.1 (1.2)	58.5 (7.6)	-53.2 (7.5)	147.0 (67.6)
21	28.3 (1.0)	53.0 (6.4)	-35.1 (8.3)	214.0 (141.0)	29.6 (0.8)	59.5 (9.8)	-55.0 (7.4)	158.0 (66.5)
22	28.2 (0.9)	54.3 (6.1)	-34.0 (10.4)	195.0 (138.0)	29.5 (0.8)	61.5 (7.4)	-57.2 (8.6)	146.0 (67.7)
23	28.1 (1.3)	47.1 (8.7)	-31.9 (10.5)	215.0 (158.0)	29.1 (1.2)	55.4 (12.5)	-56.8 (10.0)	159.0 (93.8)
24	28.3 (1.6)	48.5 (9.0)	-34.2 (11.1)	257.0 (178.0)	29.4 (1.3)	52.2 (9.9)	-55.0 (10.0)	182.0 (101.0)
25	28.1 (1.2)	46.0 (9.1)	-33.3 (11.1)	224.0 (160.0)	29.1 (1.3)	51.1 (10.1)	-56.3 (13.1)	154.0 (73.1)
26	28.0 (0.9)	46.9 (9.7)	-33.5 (11.8)	170.0 (106.0)	28.3 (1.1)	52.3 (12.2)	-57.1 (8.6)	137.0 (52.7)
27	27.7 (1.1)	53.2 (10.8)	-33.1 (11.7)	172.0 (107.0)	28.2 (1.2)	59.2 (13.6)	-53.8 (8.3)	137.0 (45.0)
28	27.9 (1.1)	52.9 (6.1)	-32.8 (10.6)	177.0 (107.0)	26.9 (1.9)	60.3 (8.9)	-45.2 (17.8)	208.0 (175.0)
29	27.8 (1.2)	58.0 (4.4)	-32.1 (14.1)	143.0 (80.6)	25.6 (1.7)	71.2 (7.3)	-39.3 (14.3)	165.0 (150.0)
30	27.1 (1.0)	58.8 (7.8)	-22.3 (7.0)	86.3 (22.0)	21.8 (2.3)	70.1 (9.7)	-13.5 (15.8)	
Avg	28.4	54.9	-35.7	204.0	28.8	60.9	-53.4	170.0
n	26	26	26	26	26	26	26	25
SD	0.9	6.3	5.4	71.1	1.8	6.8	10.2	53.9
Min	27.1	41.9	-47.1	86.3	21.8	45.8	-66.6	98.6
Max	30.4	68.1	-22.3	367.0	31.2	73.9	-13.5	306.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for October, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.6 (0.5)	55.1 (3.5)	-17.3 (3.6)	78.6 (5.2)	17.4 (1.4)	65.6 (9.4)	-0.2 (1.8)	
2	26.6 (0.8)	52.8 (5.1)	-19.8 (5.3)	77.5 (13.6)	17.6 (1.4)	56.9 (7.4)	-0.4 (1.1)	58.5 (8.0)
3	26.2 (0.7)	58.1 (3.3)	-18.8 (5.0)	72.3 (17.0)	20.4 (3.0)	66.1 (3.1)	-3.7 (4.1)	54.6 (3.6)
4	26.2 (0.6)	52.2 (6.9)	-19.3 (5.5)	81.1 (9.1)	23.3 (0.9)	56.9 (10.0)	-9.4 (5.0)	54.3 (6.5)
5	26.5 (0.8)	49.3 (6.7)	-23.8 (9.7)	101.0 (28.7)	23.7 (0.5)	55.4 (11.3)	-12.8 (7.5)	56.3 (5.8)
6	27.1 (0.8)	50.2 (4.4)	-28.9 (11.7)	116.0 (44.9)	19.6 (2.8)	57.6 (7.6)	-4.9 (6.2)	116.0 (102.0)
7	27.0 (1.1)	55.7 (8.3)	-33.2 (13.7)	125.0 (53.9)	16.3 (3.7)	65.3 (11.7)	-9.6 (16.2)	160.0 (176.0)
8	26.6 (0.9)	70.7 (2.3)	-36.7 (11.6)	109.0 (30.2)	16.2 (1.8)	82.0 (2.6)	-1.8 (2.2)	64.6 (16.2)
9	26.6 (1.4)	57.3 (13.9)	-30.6 (12.9)	95.6 (45.2)	14.9 (3.9)	62.1 (17.2)	-2.9 (7.6)	126.0 (134.0)
10	27.0 (1.4)	42.7 (9.4)	-32.6 (14.6)	132.0 (75.7)	15.9 (5.0)	43.5 (16.8)	-18.9 (20.0)	269.0 (220.0)
11	28.2 (1.6)	47.1 (3.9)	-34.4 (11.7)	216.0 (166.0)	19.5 (6.1)	53.7 (7.2)	-29.5 (22.4)	294.0 (187.0)
12	28.3 (1.6)	44.5 (8.2)	-34.6 (10.0)	217.0 (168.0)	21.4 (4.9)	52.7 (15.2)	-34.8 (20.0)	250.0 (208.0)
13	28.3 (1.3)	47.0 (4.6)	-38.7 (9.8)	227.0 (131.0)	22.3 (3.8)	52.6 (6.4)	-44.0 (12.0)	264.0 (190.0)
14	27.5 (0.8)	53.7 (6.4)	-37.0 (9.2)	131.0 (34.7)	21.8 (0.6)	58.9 (9.2)	-50.3 (17.1)	73.6 (8.8)
15	27.9 (1.4)	60.0 (3.7)	-37.1 (15.2)	135.0 (70.1)	21.8 (1.4)	70.2 (7.3)	-30.4 (18.9)	127.0 (95.6)
16	26.9 (0.4)	53.7 (4.7)	-20.7 (4.4)	74.4 (8.8)	19.3 (1.0)	60.5 (9.5)	-8.0 (13.9)	69.2 (15.5)
17	26.7 (0.5)	52.7 (5.4)	-21.7 (5.1)	79.3 (16.6)	17.3 (1.6)	59.8 (10.2)	-17.0 (25.8)	109.0 (66.3)
18	26.2 (0.7)	50.8 (5.9)	-22.3 (7.2)	75.3 (23.6)	16.6 (2.9)	57.2 (11.5)	-64.1 (3.5)	83.2 (8.1)
19	25.5 (1.2)	51.4 (8.7)	-24.2 (9.1)	78.8 (29.6)	19.1 (4.7)	54.4 (11.1)	-44.9 (19.1)	65.9 (11.8)
20	25.5 (1.8)	51.5 (5.7)	-30.0 (13.7)	107.0 (33.3)	22.2 (1.4)	56.0 (9.6)	-18.1 (17.6)	72.9 (18.6)
21	24.8 (0.7)	51.3 (5.9)	-22.0 (5.4)	73.9 (13.7)	21.0 (1.0)	53.9 (10.5)	-27.9 (17.0)	61.7 (13.5)
22	25.1 (0.7)	55.4 (5.5)	-20.2 (6.2)	77.2 (17.8)	17.5 (2.6)	54.7 (8.6)	-27.4 (21.6)	93.5 (44.4)
23	25.5 (0.7)	52.9 (8.8)	-20.7 (7.6)	67.7 (19.4)	18.5 (3.7)	52.8 (13.0)	-43.4 (23.7)	90.3 (30.7)
24	25.5 (0.5)	58.3 (7.1)	-26.1 (7.2)	62.3 (18.4)	21.1 (0.9)	65.1 (10.4)	-61.6 (4.6)	91.5 (17.1)
25	25.5 (0.4)	59.9 (2.4)	-25.9 (5.5)	64.4 (11.0)	20.6 (0.6)	66.4 (3.4)	-60.8 (7.2)	79.3 (9.9)
26	26.3 (0.8)	53.0 (6.3)	-31.5 (9.6)	67.2 (13.0)	21.1 (1.3)	55.3 (9.1)	-59.9 (7.8)	85.8 (21.6)
27	25.7 (0.5)	58.9 (3.3)	-21.6 (4.5)	63.5 (3.1)	20.3 (0.8)	62.2 (5.3)	-55.3 (10.6)	67.2 (13.5)
28	24.9 (1.0)	63.9 (5.2)	-21.0 (5.0)	70.7 (11.4)	20.1 (0.6)	64.1 (5.2)	-49.0 (12.2)	60.1 (9.1)
29	25.3 (0.4)	57.9 (5.2)	-21.2 (3.8)	65.5 (2.4)	20.4 (0.9)	58.0 (7.3)	-49.5 (11.4)	65.4 (15.2)
30	25.5 (0.6)	60.8 (6.1)	-24.3 (9.0)	63.6 (20.5)	21.2 (1.7)	57.2 (12.7)	-45.1 (18.3)	79.4 (24.8)
31	27.0 (1.2)	63.1 (4.0)	-34.7 (12.3)	96.6 (53.3)	24.0 (1.8)	49.9 (4.0)	-51.2 (12.3)	173.0 (120.0)
Avg	26.4	54.6	-26.8	100.0	19.7	58.9	-30.2	110.0
n	31	31	31	31	31	31	31	30
SD	1.0	5.8	6.5	44.9	2.4	7.0	21.1	68.9
Min	24.8	42.7	-38.7	62.3	14.9	43.5	-64.1	54.3
Max	28.3	70.7	-17.3	227.0	24.0	82.0	-0.2	294.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for November, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.4 (0.9)	61.2 (5.5)	-29.9 (10.4)	81.2 (33.2)	23.8 (0.9)	54.9 (3.4)	-52.5 (9.3)	131.0 (51.6)
2	27.3 (0.9)	53.4 (4.5)	-36.8 (14.0)	92.6 (29.0)	24.1 (0.9)	53.3 (3.2)	-55.6 (8.1)	135.0 (56.1)
3	28.2 (1.1)	49.3 (2.9)	-53.8 (9.3)	131.0 (53.0)	25.0 (1.1)	48.1 (4.4)	-48.7 (13.4)	181.0 (87.7)
4	28.0 (1.0)	49.1 (4.2)	-48.0 (10.2)	121.0 (55.5)	24.6 (1.2)	44.8 (5.0)	-51.0 (13.7)	171.0 (91.0)
5	27.9 (1.1)	48.2 (3.9)	-40.9 (13.1)		24.5 (1.4)	44.4 (5.1)	-50.5 (15.2)	
6	28.1 (1.1)	48.6 (4.5)	-42.1 (13.7)	125.0 (55.9)	24.7 (1.4)	45.8 (6.2)	-48.0 (14.2)	195.0 (94.3)
7	27.5 (0.8)	51.5 (4.7)	-35.5 (8.0)	76.2 (19.0)	23.7 (1.0)	49.4 (9.6)	-56.0 (5.6)	124.0 (34.8)
8	25.9 (0.5)	56.2 (2.8)	-48.8 (7.4)	62.0 (11.4)	21.8 (0.4)	52.1 (4.5)	-63.2 (6.3)	73.8 (5.6)
9	26.0 (0.6)	59.4 (2.4)	-48.6 (8.3)	60.7 (10.2)	21.9 (0.6)	59.8 (1.1)	-57.3 (9.6)	66.2 (7.8)
10	25.1 (0.5)	57.6 (3.1)	-46.4 (7.7)	61.4 (9.7)	21.5 (0.4)	55.5 (4.4)	-50.6 (10.3)	63.0 (8.2)
11	25.2 (0.7)	59.5 (5.0)	-48.4 (9.6)	64.0 (10.6)	21.6 (0.8)	53.3 (5.1)	-55.7 (11.9)	65.0 (8.4)
12	26.5 (0.7)	56.7 (2.9)	-59.1 (10.4)	76.7 (21.1)	23.0 (0.9)	54.4 (3.1)	-62.4 (6.9)	79.3 (16.1)
13	27.1 (0.5)	58.9 (2.3)	-65.4 (6.2)	89.4 (12.4)	23.5 (0.3)	57.4 (2.6)	-63.2 (3.9)	81.3 (18.2)
14	27.2 (0.8)	63.0 (2.8)	-63.0 (8.8)	94.0 (19.6)	23.9 (0.5)	58.1 (1.3)	-60.0 (3.5)	91.2 (16.6)
15	26.5 (0.7)	59.3 (2.5)	-45.9 (7.7)	62.9 (12.4)	22.8 (0.4)	52.5 (1.3)	-58.0 (6.1)	71.0 (5.7)
16	26.2 (0.5)	58.5 (2.9)	-50.4 (8.2)	60.3 (11.8)	22.0 (0.3)	55.2 (2.4)	-58.7 (9.3)	61.5 (7.4)
17	25.8 (0.4)	61.2 (1.8)	-46.0 (6.9)	60.2 (11.9)	21.8 (0.3)	56.7 (2.8)	-52.9 (8.5)	60.4 (8.2)
18	25.5 (0.7)	63.8 (2.4)	-46.3 (8.0)	64.0 (10.9)	21.7 (0.5)	54.4 (6.8)	-48.9 (9.5)	59.6 (6.7)
19								
20	26.5 (0.5)	61.7 (1.4)	-50.4 (9.8)	65.3 (13.8)	22.0 (0.3)	51.7 (2.2)	-55.6 (10.7)	58.9 (5.0)
21	26.0 (0.5)	62.8 (1.9)	-47.5 (8.8)	62.6 (9.4)	21.5 (0.4)	56.1 (3.2)	-49.3 (11.1)	61.1 (4.6)
22	25.6 (0.4)	62.8 (2.3)	-46.9 (9.2)	66.2 (10.5)	21.5 (0.5)	64.7 (5.0)	-50.8 (12.1)	59.4 (6.7)
23	25.9 (0.4)	59.9 (3.6)	-50.0 (10.3)	70.7 (16.9)	22.0 (1.0)	69.0 (3.1)	-55.8 (10.1)	56.5 (7.8)
24	26.5 (0.5)	60.7 (1.9)	-55.8 (11.4)	77.1 (21.0)	22.5 (0.7)	67.5 (1.6)	-61.0 (9.2)	66.3 (10.0)
25	26.7 (0.5)	61.0 (1.1)	-55.8 (8.3)	65.8 (13.7)	22.3 (0.5)	68.1 (1.5)	-60.9 (9.1)	71.4 (14.4)
26	26.5 (0.4)	61.2 (2.1)	-53.9 (9.1)	69.4 (19.3)	22.6 (0.8)	67.2 (2.0)	-57.1 (7.9)	74.9 (12.0)
27	26.2 (0.9)	66.2 (6.6)	-55.8 (9.8)	77.0 (24.4)	23.0 (0.9)	65.3 (2.3)	-56.7 (7.3)	77.8 (17.4)
28	25.7 (1.6)	67.9 (7.5)	-57.3 (7.6)	80.4 (20.5)	23.1 (0.7)	65.0 (1.8)	-59.2 (6.4)	78.5 (10.2)
29	26.5 (0.4)	59.8 (2.9)	-52.1 (9.5)	81.4 (25.7)	23.0 (0.8)	63.1 (3.1)	-55.5 (6.8)	79.9 (16.2)
30	26.7 (0.4)	57.9 (0.8)	-52.6 (7.7)	76.3 (15.2)	23.5 (0.7)	59.5 (1.5)	-57.0 (5.1)	83.7 (9.1)
Avg	26.6	58.5	-49.4	77.7	22.9	56.8	-55.6	88.5
n	29	29	29	28	29	29	29	28
SD	0.8	5.1	7.7	19.3	1.1	7.0	4.5	38.5
Min	25.1	48.2	-65.4	60.2	21.5	44.4	-63.2	56.5
Max	28.2	67.9	-29.9	131.0	25.0	69.0	-48.0	195.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for December, 2008.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.1 (0.5)	60.5 (1.9)	-54.6 (8.0)	65.8 (13.8)	23.5 (0.8)	63.6 (2.6)	-61.4 (6.7)	74.9 (10.1)
2	26.5 (0.4)	62.3 (2.5)	-49.0 (7.5)	60.5 (13.3)	22.7 (0.5)	66.7 (2.1)	-58.6 (7.2)	66.5 (15.5)
3	26.7 (0.4)	57.0 (2.7)	-54.9 (8.1)	69.7 (20.6)	23.2 (0.7)	66.3 (1.5)	-58.4 (2.8)	79.5 (14.6)
4	26.7 (0.4)	57.4 (2.0)	-47.1 (6.1)	56.9 (12.5)	22.3 (0.4)	60.8 (5.1)	-60.1 (7.2)	
5	26.4 (0.4)	62.2 (1.3)	-41.5 (7.3)	49.9 (11.0)	21.9 (0.5)	61.9 (2.3)	-54.1 (9.2)	60.8 (9.4)
6	25.5 (0.8)	62.0 (4.6)	-46.4 (11.6)	61.0 (16.1)	22.6 (0.7)	62.7 (2.5)	-57.0 (8.2)	77.7 (12.3)
7	25.1 (1.3)	59.5 (5.1)	-41.7 (6.6)	54.8 (17.4)	22.2 (0.5)	63.2 (2.7)	-55.9 (6.0)	70.9 (8.5)
8								
9								
10								
11	25.5 (1.5)	66.5 (4.6)	-42.1 (9.0)	59.3 (16.3)	23.0 (0.7)	68.0 (1.7)	-53.5 (6.6)	86.6 (15.2)
12	26.9 (0.5)	58.0 (4.1)	-44.7 (7.4)	64.8 (9.2)	22.6 (0.6)	66.8 (1.7)	-55.0 (6.9)	80.8 (11.7)
13	26.6 (0.8)	54.9 (1.8)	-49.6 (10.0)	88.9 (30.1)	23.2 (0.9)	67.9 (1.9)	-51.1 (5.2)	104.0 (24.1)
14	27.8 (0.8)	53.9 (1.9)	-56.0 (8.1)	114.0 (32.6)	23.8 (0.4)	64.8 (2.0)	-45.9 (6.8)	146.0 (38.8)
15	27.7 (0.5)	55.7 (1.6)	-40.4 (8.1)	63.9 (21.6)	23.8 (0.4)	61.2 (3.3)	-53.2 (8.7)	89.1 (37.5)
16	26.9 (0.5)	56.2 (2.6)	-34.4 (6.7)	61.0 (6.8)	23.6 (0.6)	60.1 (2.0)	-48.1 (7.1)	71.7 (11.2)
17	27.4 (0.4)	54.8 (2.9)	-38.2 (5.6)	58.9 (8.4)	24.0 (0.5)	60.2 (1.5)	-54.8 (6.6)	80.9 (10.0)
18	26.7 (0.4)	49.7 (1.5)	-39.0 (6.9)	66.1 (6.4)	23.9 (0.8)	59.2 (3.4)	-53.1 (7.4)	81.1 (12.1)
19	27.2 (0.5)	54.7 (1.4)	-40.8 (8.0)	75.5 (16.1)	24.3 (0.5)	56.4 (1.5)	-40.9 (7.3)	122.0 (33.6)
20	27.3 (0.3)	58.3 (1.0)	-35.9 (5.2)	66.1 (7.5)	24.1 (0.7)	59.6 (1.6)	-45.5 (9.5)	95.1 (15.8)
21	25.8 (1.1)	62.0 (6.4)	-37.6 (6.8)	44.2 (10.0)	23.0 (0.4)	69.9 (4.3)	-55.1 (7.6)	66.0 (6.3)
22	26.8 (0.5)	68.3 (1.8)	-37.2 (6.9)	58.0 (9.1)	23.8 (1.2)	75.3 (2.2)	-48.8 (7.1)	68.4 (8.0)
23	26.3 (0.6)	67.5 (1.6)	-40.2 (8.0)	66.3 (9.6)	24.4 (1.3)	78.0 (1.7)	-51.5 (6.0)	85.7 (17.8)
24	27.1 (1.2)	67.1 (2.0)	-38.1 (10.6)	72.3 (16.6)	25.4 (0.9)	74.9 (2.6)	-44.7 (8.0)	121.0 (31.5)
25	24.9 (0.3)	67.4 (2.3)	-28.1 (4.0)	64.4 (3.4)	24.1 (0.4)	75.2 (2.0)	-33.7 (4.4)	99.4 (19.2)
26	26.4 (1.1)	65.3 (1.9)	-35.0 (8.6)	87.8 (27.4)	25.4 (0.9)	74.2 (1.9)	-34.1 (3.9)	144.0 (45.1)
27	28.1 (0.7)	65.2 (1.4)	-46.4 (9.2)	201.0 (68.0)	26.9 (1.1)	73.3 (2.6)	-24.7 (4.5)	271.0 (46.8)
28	26.2 (0.8)	62.4 (1.8)	-35.5 (10.0)	72.5 (20.4)	25.0 (0.6)	69.5 (3.3)	-37.2 (6.1)	151.0 (34.5)
29	26.4 (1.3)	66.9 (6.1)	-29.7 (8.7)	86.7 (17.6)	25.2 (1.1)	70.9 (3.2)	-44.5 (6.8)	113.0 (18.0)
30	25.9 (1.7)	67.8 (6.4)	-33.7 (10.4)	83.0 (16.9)	25.6 (0.7)	77.7 (2.7)	-49.9 (4.1)	102.0 (22.3)
31	26.2 (0.5)	64.2 (1.3)	-24.2 (5.1)	67.2 (3.7)	24.5 (0.4)	78.6 (2.7)	-46.5 (6.7)	77.1 (5.2)
Avg	26.6	61.0	-40.8	72.9	23.9	67.4	-49.2	99.5
n	28	28	28	28	28	28	28	27
SD	0.8	5.1	7.7	28.3	1.2	6.4	8.6	41.8
Min	24.9	49.7	-56.0	44.2	21.9	56.4	-61.4	60.8
Max	28.1	68.3	-24.2	201.0	26.9	78.6	-24.7	271.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for January, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.5 (0.3)	64.3 (2.1)	-30.2 (6.0)	78.9 (7.8)	25.0 (0.7)	78.8 (3.5)	-48.7 (5.6)	83.0 (16.9)
2	26.4 (0.7)	65.4 (6.6)	-37.1 (9.4)	80.4 (12.7)	25.4 (0.6)	74.2 (1.9)	-51.1 (4.2)	81.6 (13.8)
3	25.7 (0.5)	60.3 (2.3)	-35.5 (5.9)	80.4 (10.3)	25.0 (0.6)	74.3 (1.4)	-47.5 (4.8)	88.3 (18.0)
4	26.7 (0.6)	57.6 (1.0)	-42.0 (8.2)	81.9 (13.0)	25.4 (0.7)	71.0 (2.0)	-50.6 (3.4)	95.0 (20.4)
5	25.9 (0.7)	56.6 (4.6)	-33.7 (4.8)	69.0 (9.6)	24.8 (0.6)	75.4 (3.8)	-49.5 (5.8)	76.4 (15.3)
6	25.8 (0.8)	59.1 (1.5)	-33.8 (4.0)	69.1 (11.3)	25.4 (0.8)	75.9 (1.4)	-48.3 (4.8)	80.9 (15.4)
7	25.0 (1.0)	70.5 (6.6)	-40.3 (7.8)	57.4 (16.1)	25.8 (0.5)	72.2 (5.4)	-54.2 (6.6)	58.8 (14.3)
8	25.5 (0.5)	64.7 (0.9)	-36.4 (5.1)	54.1 (4.9)	25.2 (0.5)	72.2 (3.3)	-47.4 (6.8)	58.9 (7.8)
9	25.3 (0.5)	63.1 (1.6)	-37.5 (5.6)	62.8 (9.2)	25.0 (0.4)	75.8 (2.0)	-49.2 (8.7)	67.7 (8.0)
10	25.4 (0.5)	62.9 (4.2)	-35.7 (10.8)	54.3 (12.5)	25.1 (0.3)	73.8 (1.2)	-48.0 (6.8)	61.3 (7.6)
11	25.6 (0.5)	56.7 (1.0)	-31.3 (10.9)	71.0 (8.8)	25.2 (0.2)	72.9 (1.9)	-49.4 (7.5)	65.3 (7.9)
12	25.8 (0.3)	56.0 (1.0)	-37.1 (9.5)	67.0 (9.1)	25.3 (0.4)	75.3 (2.6)	-51.6 (6.7)	73.4 (14.4)
13	25.7 (1.6)	62.1 (5.9)	-36.7 (13.7)	51.8 (17.0)	25.4 (0.5)	77.4 (1.8)	-51.2 (7.2)	63.4 (10.8)
14	23.6 (0.9)	65.8 (7.8)	-15.8 (9.3)	34.1 (15.4)	24.4 (0.7)	82.5 (1.9)	-44.7 (7.0)	62.0 (13.2)
15	22.1 (1.2)	63.7 (3.7)	-23.2 (10.3)	48.4 (15.3)	23.3 (1.4)	80.3 (5.2)	-46.7 (13.2)	40.7 (17.9)
16	22.6 (2.0)	73.2 (3.2)	-30.5 (15.0)	54.6 (7.4)	22.6 (0.6)	80.4 (5.1)	-42.0 (11.0)	50.8 (8.4)
17	23.8 (0.6)	72.7 (3.1)	-33.9 (7.5)	61.8 (11.0)	24.3 (0.7)	77.1 (2.8)	-53.9 (4.2)	52.3 (12.2)
18	23.6 (0.8)	70.7 (2.9)	-21.7 (5.2)	61.1 (4.1)	24.0 (0.4)	72.1 (2.0)	-45.7 (5.4)	62.4 (4.2)
19	23.5 (1.1)	67.8 (2.7)	-28.8 (7.5)	61.4 (6.4)	24.2 (0.9)	75.8 (2.2)	-45.2 (7.4)	62.8 (6.6)
20	22.2 (0.3)	68.1 (1.9)	-28.2 (4.3)	57.1 (4.6)	24.2 (0.4)	76.8 (1.8)	-41.5 (5.7)	63.4 (6.0)
21	22.7 (0.3)	69.5 (1.5)	-33.1 (7.2)	52.0 (8.5)	24.4 (0.7)	75.1 (1.6)	-45.7 (6.9)	57.5 (4.8)
22	23.5 (0.6)	64.1 (3.3)	-36.1 (8.1)	60.4 (9.4)	25.2 (0.5)	78.3 (3.2)	-49.7 (6.8)	61.7 (8.1)
23	23.5 (1.1)	55.6 (3.3)	-37.4 (11.3)	63.4 (12.4)	25.5 (0.5)	75.0 (2.4)	-49.6 (6.9)	66.9 (8.3)
24	22.1 (1.0)	54.7 (1.6)	-23.4 (5.3)	61.8 (4.5)	24.5 (0.4)	75.7 (2.1)	-41.7 (7.0)	62.4 (4.9)
25	21.3 (0.6)	58.0 (1.9)	-23.9 (5.2)	62.5 (4.5)	24.0 (0.5)	78.6 (2.4)	-38.6 (6.9)	55.7 (5.4)
26	21.1 (0.5)	54.3 (4.7)	-21.3 (3.1)	64.2 (2.9)	24.3 (0.5)	78.0 (1.3)	-39.7 (6.4)	61.5 (5.8)
27	21.9 (0.9)	49.8 (1.7)	-23.7 (4.5)	62.1 (4.4)	24.6 (0.6)	75.2 (4.3)	-42.4 (6.4)	57.1 (5.3)
28	21.7 (0.9)	52.1 (0.9)	-25.5 (4.7)	60.6 (4.8)	25.1 (0.6)	76.0 (3.3)	-44.2 (7.6)	55.5 (5.5)
29	22.3 (1.0)	51.3 (2.7)	-34.1 (8.9)	65.3 (8.0)	25.6 (0.8)	79.2 (1.8)	-52.3 (9.3)	52.9 (7.4)
30	21.7 (0.7)	52.8 (2.1)	-29.8 (5.1)	56.2 (5.6)	25.1 (0.4)	79.4 (1.4)	-44.0 (6.7)	55.8 (6.9)
31	22.5 (0.8)	53.8 (2.4)	-37.1 (6.4)	56.5 (9.8)	25.2 (1.0)	82.2 (2.2)	-50.3 (11.1)	
Avg	23.9	61.2	-31.4	62.0	24.8	76.3	-47.2	64.5
n	31	31	31	31	31	31	31	30
SD	1.8	6.6	6.3	9.9	0.7	2.9	4.0	11.7
Min	21.1	49.8	-42.0	34.1	22.6	71.0	-54.2	40.7
Max	26.7	73.2	-15.8	81.9	25.8	82.5	-38.6	95.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for February, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	23.6 (0.4)	50.5 (1.7)	-46.4 (8.4)	64.6 (12.6)	26.4 (0.4)	75.7 (2.6)	-56.7 (5.4)	61.8 (5.8)
2	22.7 (0.5)	51.3 (2.6)	-45.0 (9.5)	57.7 (10.6)	26.2 (0.6)	77.9 (1.3)	-49.2 (7.0)	
3								
4	22.2 (0.5)	54.6 (1.1)	-43.4 (8.5)	45.3 (5.2)	25.2 (0.5)	80.2 (4.2)	-38.6 (7.6)	
5	22.3 (0.6)	53.1 (4.9)	-46.4 (9.6)	47.4 (8.5)	25.0 (0.5)	81.3 (1.4)	-43.1 (7.4)	
6	23.2 (0.7)	50.1 (1.5)	-52.6 (10.9)	59.6 (11.7)	26.0 (0.7)	79.0 (2.3)	-48.5 (10.1)	
7	24.2 (0.4)	54.9 (1.5)	-66.6 (8.6)	51.0 (26.1)	27.7 (0.9)	77.6 (1.6)	-60.8 (4.4)	73.3 (6.6)
8	23.3 (0.5)	52.6 (1.6)	-54.8 (7.8)	62.9 (7.2)	26.4 (0.4)	73.7 (2.0)	-51.5 (5.4)	67.6 (7.9)
9	23.8 (0.8)	53.3 (2.3)	-56.3 (8.2)	78.4 (22.4)	26.7 (1.0)	76.3 (3.3)	-54.1 (8.2)	69.0 (10.2)
10	25.2 (0.9)	55.3 (1.5)	-60.2 (8.5)	113.0 (28.5)	27.5 (0.6)	79.0 (3.0)	-61.6 (2.8)	83.0 (14.2)
11	24.8 (1.2)	58.5 (1.6)	-55.1 (10.9)	104.0 (29.7)	27.2 (1.1)	78.2 (3.2)	-61.6 (5.9)	79.0 (17.2)
12	23.3 (1.1)	53.9 (5.3)	-42.6 (12.7)	62.6 (8.0)	25.2 (0.5)	72.8 (2.5)	-52.2 (8.7)	62.4 (9.8)
13	22.6 (1.0)	52.0 (1.7)	-36.5 (9.8)	65.7 (10.6)	25.1 (0.7)	70.5 (2.6)	-47.8 (8.0)	65.7 (9.9)
14	22.5 (0.3)	56.3 (1.0)	-40.7 (8.2)	66.2 (7.8)	25.0 (0.5)	70.4 (2.4)	-46.3 (6.2)	68.4 (8.9)
15	22.3 (0.4)	56.7 (2.9)	-36.0 (8.8)	64.5 (7.3)	24.6 (0.5)	67.5 (1.7)	-43.9 (6.1)	63.8 (11.2)
16	22.0 (0.5)	60.3 (3.6)	-32.8 (8.7)	53.5 (15.3)	24.5 (0.6)	70.4 (4.0)	-44.7 (7.0)	55.9 (12.7)
17	22.8 (0.6)	66.7 (3.4)	-39.3 (12.5)	48.1 (13.7)	24.9 (0.7)	76.0 (4.1)	-54.9 (9.5)	42.6 (8.6)
18	23.8 (0.9)	63.4 (5.7)	-43.8 (13.0)	64.1 (17.4)	25.7 (0.7)	76.2 (1.7)	-56.9 (7.7)	61.6 (12.2)
19	22.8 (0.7)	62.9 (4.2)	-30.0 (9.8)	48.5 (12.3)	24.2 (0.3)	77.8 (1.6)	-40.6 (7.5)	42.1 (6.7)
20	24.1 (1.1)	62.4 (3.3)	-33.4 (10.5)	60.4 (8.0)	24.6 (0.7)	78.0 (1.9)	-39.2 (7.3)	58.3 (9.7)
21	24.8 (0.7)	62.7 (2.5)	-42.5 (12.9)	63.9 (9.3)	25.2 (0.7)	78.1 (2.0)	-51.9 (11.2)	55.9 (8.9)
22	24.0 (0.4)	63.9 (3.0)	-31.3 (7.0)		24.8 (0.4)	76.7 (2.9)	-43.9 (5.1)	
23	24.0 (0.6)	63.3 (3.7)	-27.7 (7.8)	61.5 (6.7)	24.4 (0.6)	76.6 (3.0)	-40.4 (8.0)	56.0 (5.6)
24	24.5 (0.7)	63.8 (3.3)	-32.7 (9.4)	63.7 (7.5)	25.3 (1.0)	80.8 (5.4)	-46.8 (9.1)	55.5 (9.2)
25	25.4 (1.1)	65.3 (4.6)	-41.7 (12.6)	80.3 (19.2)	26.4 (0.9)	79.6 (3.5)	-52.9 (8.5)	70.1 (18.7)
26	25.8 (0.4)	65.3 (1.6)	-45.6 (9.1)	86.5 (16.7)	27.3 (1.0)	78.3 (2.5)	-62.0 (6.5)	72.8 (9.9)
27	24.5 (1.0)	65.4 (2.0)	-39.5 (12.8)	69.1 (18.2)	25.8 (0.9)	75.7 (3.1)	-50.2 (9.8)	69.8 (8.5)
28	23.2 (0.5)	68.1 (1.3)	-28.9 (4.3)	61.9 (4.4)	24.5 (0.3)	73.4 (1.5)	-40.2 (6.2)	61.8 (5.8)
Avg	23.6	58.8	-42.7	65.6	25.6	76.2	-49.7	63.5
n	27	27	27	26	27	27	27	22
SD	1.0	5.6	9.8	15.7	1.0	3.4	7.2	9.8
Min	22.0	50.1	-66.6	45.3	24.2	67.5	-62.0	42.1
Max	25.8	68.1	-27.7	113.0	27.7	81.3	-38.6	83.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for March, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	22.8 (0.4)	67.2 (2.8)	-24.9 (4.5)	63.8 (3.9)	24.4 (0.6)	70.4 (1.7)	-36.6 (5.8)	53.9 (6.6)
2	22.7 (0.6)	68.7 (3.1)	-25.6 (5.3)	62.9 (4.1)	24.0 (0.7)	70.4 (1.8)	-35.7 (7.2)	50.5 (6.3)
3	23.0 (0.7)	70.5 (4.6)	-28.6 (5.9)	60.7 (4.9)	24.5 (0.8)	73.5 (2.0)	-40.1 (8.2)	52.1 (7.2)
4	23.8 (0.8)	69.2 (6.0)	-35.9 (10.0)	71.4 (11.2)	25.4 (0.9)	77.6 (4.1)	-48.9 (8.7)	58.2 (11.4)
5	25.9 (1.5)	64.8 (4.1)	-52.3 (14.6)	121.0 (46.4)	27.2 (1.3)	76.6 (1.7)	-55.1 (8.7)	76.7 (21.1)
6	26.9 (1.1)	64.0 (1.7)	-54.3 (12.2)	150.0 (43.7)	28.4 (1.0)	73.8 (2.6)	-59.0 (4.1)	96.8 (17.2)
7	26.1 (1.5)	61.6 (2.1)	-41.1 (17.2)	136.0 (61.4)	28.0 (1.2)	71.2 (2.9)	-56.1 (7.1)	94.3 (25.0)
8	25.2 (0.9)	61.4 (2.0)	-32.5 (17.0)	83.9 (20.4)	27.0 (0.8)	72.7 (1.9)	-57.2 (7.4)	70.7 (14.8)
9	25.2 (0.7)	62.5 (1.7)	-20.0 (7.5)	72.5 (7.0)	26.1 (0.7)	71.9 (1.4)	-48.8 (9.1)	60.4 (5.0)
10	26.5 (1.1)	65.8 (1.7)	-42.5 (17.1)	100.0 (31.9)	28.0 (1.5)	75.6 (2.3)	-55.9 (6.6)	88.0 (27.0)
11	25.0 (0.8)	65.7 (2.2)	-28.6 (7.3)	60.4 (5.2)	25.6 (0.6)	77.1 (2.8)	-49.9 (7.7)	50.6 (6.8)
12	23.9 (0.8)	67.4 (3.4)	-25.7 (12.4)	56.0 (17.8)	25.1 (0.7)	78.3 (1.8)	-38.7 (7.8)	47.1 (7.8)
13	25.4 (0.8)	66.9 (4.3)	-40.8 (7.9)	52.5 (16.9)	25.3 (0.7)	77.9 (2.5)	-42.7 (9.5)	56.0 (13.7)
14	26.0 (0.8)	63.6 (4.0)	-45.8 (9.3)	66.7 (14.5)	25.8 (0.9)	77.5 (1.8)	-47.3 (9.9)	68.6 (10.7)
15	25.6 (0.7)	65.2 (4.5)	-48.2 (13.1)	61.7 (21.0)	26.4 (1.2)	70.9 (2.2)	-49.0 (7.8)	62.3 (10.8)
16	26.8 (1.2)	60.5 (3.9)	-52.5 (12.8)	80.7 (29.7)	27.1 (1.4)	67.1 (2.6)	-52.0 (8.3)	79.0 (20.8)
17	27.4 (1.0)	58.7 (5.4)	-56.6 (10.0)	106.0 (37.3)	27.9 (1.0)	70.2 (2.2)	-53.6 (6.2)	107.0 (34.2)
18	26.1 (0.7)	59.6 (2.3)	-45.7 (9.5)	86.1 (15.2)	27.2 (0.8)	69.0 (2.2)	-55.0 (5.8)	86.0 (12.6)
19	25.2 (0.8)	58.5 (4.3)	-31.9 (6.4)		25.7 (0.6)	63.9 (3.8)	-43.8 (8.1)	
20	25.0 (1.1)	60.1 (4.4)	-37.7 (10.0)	61.3 (10.7)	25.0 (0.8)	70.2 (2.7)	-41.4 (8.8)	69.7 (7.6)
21	25.7 (0.7)	56.4 (4.8)	-54.6 (10.5)	75.0 (21.1)	26.1 (1.1)	69.2 (4.1)	-49.1 (10.0)	75.2 (11.3)
22	26.0 (1.0)	51.9 (4.6)	-55.4 (10.7)	88.2 (25.9)	26.7 (1.4)	62.4 (5.6)	-49.2 (8.5)	86.7 (15.2)
23	25.0 (0.8)	52.2 (4.8)	-50.4 (10.4)	82.1 (23.5)	26.1 (1.0)	63.4 (6.0)	-45.9 (9.2)	76.5 (9.6)
24	25.9 (1.5)	51.6 (2.1)	-57.2 (10.0)	103.0 (32.4)	27.1 (1.7)	57.9 (3.1)	-52.0 (9.4)	91.5 (22.1)
25	26.9 (0.7)	58.4 (3.2)	-61.5 (9.8)	103.0 (17.5)	27.6 (0.9)	68.4 (3.1)	-55.5 (6.0)	91.3 (11.8)
26	26.1 (0.8)	56.3 (3.7)	-50.2 (8.8)	81.7 (18.1)	26.5 (0.9)	67.7 (2.3)	-50.5 (7.9)	82.3 (10.6)
27	26.4 (1.0)	55.2 (3.6)	-51.0 (11.7)		26.6 (1.2)	66.1 (2.5)	-49.1 (9.5)	
28	25.9 (0.9)	57.3 (2.8)	-45.5 (8.8)		26.2 (0.9)	68.8 (2.2)	-46.8 (9.2)	
29	25.6 (0.4)	60.6 (1.5)	-45.0 (7.1)	62.9 (12.1)	25.5 (0.5)	70.6 (1.7)	-50.3 (6.7)	66.3 (9.2)
30	26.2 (0.8)	59.5 (3.4)	-43.2 (7.2)	66.9 (12.3)	26.0 (0.9)	69.4 (1.8)	-48.5 (7.4)	69.1 (10.5)
31	26.7 (0.5)	60.6 (1.6)	-51.6 (9.3)	79.4 (15.6)	26.8 (0.8)	74.6 (4.5)	-56.3 (6.8)	72.6 (9.2)
Avg	25.5	61.3	-43.1	82.0	26.3	70.8	-49.0	72.8
n	31	31	31	28	31	31	31	28
SD	1.2	5.0	11.1	23.9	1.1	4.9	6.1	15.8
Min	22.7	51.6	-61.5	52.5	24.0	57.9	-59.0	47.1
Max	27.4	70.5	-20.0	150.0	28.4	78.3	-35.7	107.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for April, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.8 (0.6)	57.8 (4.7)	-51.0 (9.6)	72.3 (11.8)	25.8 (0.5)	73.3 (3.7)	-52.7 (6.3)	83.6 (19.4)
2	27.4 (1.1)	54.4 (4.0)	-52.4 (9.6)	106.0 (36.0)	26.7 (1.0)	64.9 (6.3)	-51.6 (5.7)	122.0 (44.5)
3	26.6 (0.6)	59.4 (2.5)	-37.2 (4.4)	72.0 (10.8)	25.2 (0.6)	67.8 (2.1)	-50.2 (5.5)	77.3 (8.9)
4	26.0 (0.7)	58.3 (3.2)	-40.6 (8.3)	67.2 (14.5)	25.1 (1.1)	68.5 (1.9)	-50.3 (7.9)	72.3 (12.3)
5	25.4 (0.5)	64.7 (6.6)	-40.8 (9.7)	65.1 (18.0)	25.6 (0.8)	66.6 (1.0)	-50.4 (7.8)	69.7 (11.9)
6	25.7 (0.7)	64.3 (5.9)	-30.7 (5.0)	49.9 (8.4)	24.7 (0.6)	69.7 (2.0)	-40.1 (5.0)	58.7 (10.4)
7	25.7 (0.6)	59.4 (2.5)	-34.7 (6.3)	57.8 (9.0)	24.4 (0.6)	70.5 (2.5)	-45.2 (8.7)	58.9 (7.9)
8	25.5 (0.4)	65.8 (4.1)	-41.2 (10.6)	64.2 (18.8)	25.2 (1.0)	71.7 (2.5)	-52.2 (8.1)	61.1 (11.8)
9	26.1 (1.0)	58.0 (7.5)	-43.8 (11.2)	70.3 (26.2)	25.8 (1.0)	62.6 (6.6)	-52.1 (6.5)	74.1 (20.2)
10	26.1 (0.4)	58.7 (5.6)	-40.2 (7.7)	67.5 (19.0)	25.4 (0.5)	63.9 (4.0)	-48.5 (6.8)	72.1 (13.0)
11	25.9 (0.5)	58.7 (3.1)	-36.5 (8.0)	63.3 (14.2)	25.1 (0.7)	62.3 (5.3)	-43.5 (9.7)	68.8 (6.2)
12	26.4 (0.8)	53.9 (4.9)	-40.0 (7.9)	74.2 (16.7)	25.1 (0.8)	59.7 (6.7)	-47.2 (10.9)	78.8 (15.9)
13	26.0 (0.4)	58.8 (3.4)	-36.0 (5.3)	63.8 (10.3)	25.0 (0.6)	68.7 (5.8)	-46.9 (7.3)	67.5 (7.8)
14	26.3 (0.4)	67.1 (3.9)	-39.7 (7.8)	68.5 (13.4)	25.4 (0.6)	73.8 (1.5)	-54.4 (7.9)	63.0 (8.8)
15	26.1 (0.6)	64.3 (3.6)	-40.9 (10.8)	64.0 (16.5)	25.6 (0.8)	73.4 (1.6)	-54.0 (7.8)	57.4 (9.3)
16	27.0 (1.2)	58.4 (7.5)	-48.6 (11.4)	88.1 (34.2)	26.2 (1.3)	67.2 (5.0)	-57.5 (5.3)	81.8 (24.1)
17	27.8 (1.1)	52.8 (5.3)	-52.1 (11.8)	105.0 (39.7)	26.7 (1.4)	60.3 (5.7)	-55.4 (6.0)	101.0 (34.7)
18	28.5 (1.1)	50.7 (3.1)	-54.7 (9.6)	133.0 (47.2)	27.4 (1.3)	56.7 (3.7)	-53.2 (6.1)	134.0 (51.0)
19	27.9 (0.6)	56.4 (2.1)	-49.8 (7.6)	95.9 (17.8)	27.4 (0.8)	62.9 (2.3)	-58.3 (2.8)	97.9 (14.2)
20	27.3 (0.5)	60.6 (1.5)	-45.8 (6.9)	74.4 (11.4)	25.9 (0.6)	68.8 (1.3)	-57.1 (5.0)	78.4 (10.8)
21	26.7 (0.5)	59.8 (2.8)	-44.2 (7.9)	69.8 (11.1)	25.1 (0.5)	71.9 (1.8)	-53.6 (6.6)	71.0 (6.5)
22	27.0 (0.9)	54.9 (3.6)	-43.2 (9.9)	73.5 (15.8)	25.6 (1.0)	67.7 (4.0)	-52.3 (7.6)	81.5 (19.6)
23	27.2 (1.1)	53.7 (4.6)	-49.6 (12.9)	95.7 (30.7)	26.5 (1.6)	65.1 (3.1)	-56.1 (8.1)	85.9 (26.7)
24	29.3 (1.3)	48.8 (5.8)	-59.4 (5.9)	204.0 (88.8)	28.7 (1.3)	58.6 (6.9)	-46.1 (12.6)	238.0 (135.0)
25	29.4 (1.1)	48.2 (2.8)	-59.8 (5.8)	242.0 (90.4)	29.1 (1.0)	54.7 (3.7)	-41.1 (9.9)	281.0 (138.0)
26	29.5 (1.1)	47.3 (5.3)	-59.4 (5.8)	259.0 (101.0)	29.3 (1.0)	52.0 (5.7)	-39.7 (9.3)	302.0 (142.0)
27	29.2 (0.9)	49.8 (5.4)	-61.9 (3.8)	207.0 (65.6)	28.8 (0.7)	55.9 (6.8)	-46.4 (8.5)	235.0 (89.9)
28	27.0 (1.0)	62.2 (1.2)	-51.4 (11.0)	107.0 (22.7)	27.2 (0.9)	73.0 (1.4)	-60.8 (3.1)	99.9 (18.5)
29	25.9 (1.0)	65.3 (3.5)	-44.5 (9.9)	79.2 (20.1)	26.1 (0.8)	74.5 (1.9)	-58.9 (4.6)	79.7 (17.7)
30	27.6 (1.3)	66.2 (1.7)	-59.6 (11.7)	120.0 (30.7)	27.5 (1.0)	77.4 (2.8)	-59.1 (4.2)	118.0 (35.0)
Avg	27.0	58.0	-46.3	99.3	26.3	66.1	-51.2	106.0
n	30	30	30	30	30	30	30	30
SD	1.2	5.6	8.4	54.5	1.3	6.4	5.7	65.5
Min	25.4	47.3	-61.9	49.9	24.4	52.0	-60.8	57.4
Max	29.5	67.1	-30.7	259.0	29.3	77.4	-39.7	302.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for May, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.2 (1.0)	60.6 (4.9)	-52.4 (11.6)	107.0 (25.0)	27.3 (1.1)	71.4 (3.7)	-59.5 (4.8)	98.6 (16.2)
2	26.2 (1.3)	58.0 (9.7)	-45.9 (16.3)	86.9 (31.5)	26.5 (1.3)	65.0 (7.5)	-57.0 (7.2)	77.7 (20.9)
3	26.9 (1.1)	46.1 (7.8)	-51.8 (11.6)	113.0 (39.4)	27.0 (1.2)	55.2 (9.2)	-57.3 (3.9)	98.0 (23.3)
4	26.9 (1.2)	44.8 (4.0)	-49.7 (13.5)	119.0 (41.1)	27.1 (1.1)	53.2 (5.0)	-56.5 (3.1)	97.9 (23.0)
5	27.0 (1.3)	48.9 (4.9)	-50.3 (12.6)	122.0 (52.0)	27.2 (1.3)	57.4 (5.8)	-54.1 (5.9)	104.0 (35.0)
6	26.6 (0.9)	60.0 (2.4)	-50.5 (12.3)	105.0 (28.8)	27.0 (1.0)	70.3 (3.4)	-57.5 (5.0)	95.5 (22.1)
7	27.6 (1.3)	61.8 (5.6)	-51.8 (10.6)	129.0 (72.6)	27.3 (1.9)	68.2 (8.0)	-55.5 (6.5)	117.0 (43.7)
8	28.1 (0.8)	63.9 (2.5)	-55.6 (7.0)	143.0 (36.5)	28.4 (0.6)	69.5 (4.5)	-58.4 (4.2)	118.0 (22.1)
9	27.3 (0.7)	58.9 (5.2)	-49.3 (10.6)	93.2 (15.2)	27.0 (0.8)	69.8 (4.7)	-60.5 (4.0)	93.2 (14.0)
10	26.5 (0.9)	56.9 (7.0)	-43.2 (11.5)	91.4 (24.1)	26.2 (1.0)	68.0 (8.4)	-57.0 (5.1)	82.6 (18.5)
11	26.3 (0.8)	53.1 (8.0)	-38.5 (9.3)	86.2 (19.0)	26.1 (1.0)	66.4 (7.4)	-55.8 (4.8)	83.4 (18.1)
12	26.6 (1.2)	47.3 (7.3)	-45.5 (14.9)	105.0 (38.0)	26.7 (1.4)	57.9 (7.6)	-55.8 (7.1)	86.9 (23.6)
13	27.0 (1.2)	60.3 (5.3)	-56.9 (13.0)	110.0 (24.5)	27.6 (1.0)	74.4 (7.1)	-60.3 (3.8)	97.5 (23.5)
14	28.2 (0.9)	57.0 (7.5)	-60.8 (10.0)	133.0 (25.4)	28.2 (0.6)	68.4 (8.0)	-60.0 (3.5)	112.0 (24.8)
15	27.7 (1.2)	61.3 (5.8)	-49.8 (13.2)	114.0 (37.5)	27.8 (1.3)	70.1 (3.3)	-59.8 (4.0)	101.0 (30.6)
16	27.4 (1.1)	64.7 (9.3)	-45.7 (14.3)	101.0 (25.7)	27.7 (1.0)	72.2 (6.2)	-58.4 (6.7)	89.8 (18.3)
17	26.4 (0.6)	49.7 (7.5)	-32.1 (6.3)	76.9 (11.7)	26.2 (0.6)	59.2 (7.3)	-49.1 (6.8)	73.8 (13.9)
18	27.0 (1.1)	47.7 (7.6)	-44.8 (14.4)	99.4 (30.4)	27.1 (1.2)	57.7 (7.2)	-54.8 (8.2)	87.5 (24.9)
19	28.1 (1.3)	45.9 (4.8)	-49.9 (11.1)	142.0 (63.0)	27.8 (1.3)	56.0 (4.6)	-54.5 (5.1)	125.0 (50.3)
20	28.6 (1.5)	42.2 (6.8)	-48.4 (7.9)	204.0 (111.0)	28.8 (1.5)	49.7 (9.1)	-49.2 (9.0)	185.0 (105.0)
21	28.7 (1.5)	49.0 (4.0)	-48.6 (6.5)	226.0 (113.0)	29.2 (1.3)	53.2 (5.7)	-48.8 (9.2)	197.0 (114.0)
22	29.1 (1.2)	52.1 (4.8)	-52.0 (4.8)	214.0 (79.7)	29.4 (0.7)	57.0 (5.4)	-51.9 (7.1)	178.0 (69.6)
23	28.9 (1.5)	51.8 (4.8)	-46.6 (7.9)	225.0 (126.0)	29.1 (1.3)	57.7 (6.7)	-51.0 (10.7)	203.0 (119.0)
24	29.1 (1.4)	54.7 (6.2)	-49.7 (7.0)	238.0 (115.0)	29.6 (0.8)	58.8 (6.5)	-49.8 (10.3)	208.0 (114.0)
25	27.8 (0.9)	46.6 (5.5)	-48.5 (8.0)	132.0 (42.1)	28.4 (0.5)	51.8 (6.6)	-58.4 (3.9)	123.0 (30.0)
26	29.0 (1.9)	54.6 (6.4)	-48.1 (7.5)	217.0 (118.0)	29.2 (1.4)	60.8 (7.0)	-52.0 (8.7)	200.0 (112.0)
27	30.1 (1.0)	61.5 (5.7)	-51.7 (5.7)	260.0 (105.0)	30.0 (1.0)	67.8 (7.5)	-47.5 (8.4)	254.0 (111.0)
28	27.9 (0.8)	61.5 (2.4)	-45.8 (9.2)	103.0 (19.6)	28.4 (1.0)	69.5 (1.9)	-61.0 (3.2)	105.0 (16.2)
29	27.8 (1.8)	56.7 (7.6)	-42.5 (13.0)	136.0 (77.1)	27.7 (1.9)	64.9 (8.4)	-58.6 (5.2)	140.0 (68.3)
30	28.1 (1.5)	49.9 (8.6)	-45.6 (12.6)	145.0 (67.1)	27.9 (1.7)	58.2 (9.1)	-59.7 (4.5)	149.0 (53.9)
31	27.7 (1.2)	45.9 (7.6)	-41.6 (9.6)	122.0 (44.5)	27.8 (1.1)	51.8 (8.9)	-62.4 (3.0)	128.0 (31.1)
Avg	27.7	54.0	-48.2	139.0	27.8	62.3	-55.9	126.0
n	31	31	31	31	31	31	31	31
SD	0.9	6.4	5.3	50.9	1.0	7.1	4.1	46.3
Min	26.2	42.2	-60.8	76.9	26.1	49.7	-62.4	73.8
Max	30.1	64.7	-32.1	260.0	30.0	74.4	-47.5	254.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for June, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	28.4 (1.5)	57.8 (6.1)	-44.2 (8.3)	179.0 (110.0)	28.8 (1.4)	64.8 (6.4)	-56.4 (10.7)	167.0 (101.0)
2	27.9 (0.8)	67.5 (3.5)	-42.3 (6.6)	110.0 (18.5)	28.8 (0.5)	75.0 (1.6)	-61.0 (2.8)	112.0 (15.6)
3	26.6 (0.6)	64.6 (2.9)	-35.4 (4.8)	89.3 (8.0)	27.6 (0.7)	73.9 (2.4)	-62.2 (2.7)	85.5 (13.9)
4	27.0 (1.0)	58.5 (7.5)	-35.0 (7.9)	94.5 (19.4)	27.4 (1.2)	66.1 (8.8)	-59.8 (2.9)	84.6 (22.4)
5	27.7 (1.5)	49.7 (8.1)	-39.5 (10.1)	120.0 (48.0)	27.7 (1.2)	57.2 (8.2)	-56.0 (3.7)	117.0 (44.1)
6	28.8 (1.6)	50.4 (4.5)	-42.2 (5.6)	172.0 (81.8)	28.8 (1.1)	57.1 (5.3)	-53.0 (9.2)	159.0 (67.7)
7	29.4 (1.0)	53.9 (3.0)	-48.0 (4.6)	208.0 (87.5)	29.2 (0.7)	60.1 (3.8)	-53.2 (7.4)	180.0 (65.0)
8	29.6 (1.0)	60.9 (3.3)	-50.5 (4.7)	213.0 (82.6)	29.5 (0.7)	67.3 (4.1)	-52.7 (8.4)	210.0 (91.1)
9	28.2 (1.2)	61.4 (3.2)	-40.7 (9.9)	142.0 (52.3)	28.4 (0.5)	67.7 (2.5)	-57.9 (5.7)	
10	27.7 (1.3)	65.3 (1.2)	-40.0 (10.6)	122.0 (42.4)	28.1 (0.7)	71.4 (1.4)	-60.4 (4.7)	126.0 (40.7)
11	28.0 (0.8)	67.4 (1.6)	-43.3 (7.6)		28.4 (0.4)	74.7 (1.7)	-60.2 (5.9)	
12	27.9 (1.5)	58.8 (7.7)	-43.3 (11.6)	237.0 (65.2)	28.2 (0.6)	65.9 (7.8)	-60.1 (5.9)	130.0 (51.6)
13	28.2 (1.4)	56.6 (5.7)	-43.2 (10.3)	148.0 (59.7)	28.4 (0.7)	63.7 (7.0)	-59.0 (5.9)	140.0 (51.0)
14	28.7 (1.7)	56.1 (5.2)	-42.6 (9.8)	189.0 (92.8)	28.7 (1.0)	62.6 (6.3)	-52.9 (12.0)	169.0 (81.2)
15	29.2 (1.5)	51.3 (5.7)	-43.0 (9.2)	197.0 (90.5)	29.0 (0.9)	56.7 (5.8)	-52.5 (9.1)	202.0 (88.2)
16	28.2 (0.9)	56.8 (5.2)	-38.5 (9.7)	135.0 (38.4)	28.5 (0.4)	62.7 (6.3)	-59.7 (4.5)	145.0 (37.5)
17	28.8 (1.4)	64.0 (2.5)	-38.8 (11.4)	174.0 (84.9)	28.8 (0.8)	70.4 (2.9)	-54.1 (10.9)	176.0 (79.0)
18	29.0 (1.5)	63.7 (3.7)	-35.9 (11.7)	196.0 (111.0)	29.0 (1.2)	70.0 (3.7)	-52.0 (13.4)	184.0 (95.9)
19	30.1 (1.4)	65.2 (3.0)	-42.1 (6.2)	296.0 (132.0)	29.8 (1.2)	71.7 (4.0)	-42.9 (7.6)	285.0 (126.0)
20	29.8 (1.3)	61.9 (5.4)	-39.5 (4.1)	333.0 (150.0)	29.5 (1.0)	68.9 (6.6)	-40.6 (9.4)	317.0 (148.0)
21	29.9 (1.7)	58.7 (5.8)	-35.6 (6.2)	362.0 (160.0)	29.9 (1.2)	63.2 (6.4)	-38.8 (8.8)	346.0 (159.0)
22	29.7 (1.3)	59.5 (3.9)	-37.3 (6.3)	320.0 (138.0)	29.8 (0.9)	64.2 (5.4)	-42.2 (7.8)	296.0 (125.0)
23	30.0 (2.1)	57.1 (7.8)	-35.1 (7.8)	378.0 (172.0)	30.1 (1.6)	60.9 (8.3)	-41.2 (10.0)	363.0 (171.0)
24	30.5 (2.7)	57.6 (4.6)	-40.3 (2.4)	525.0 (11.6)	29.6 (2.9)	62.6 (5.8)	-36.6 (1.7)	533.0 (12.7)
25	30.9 (2.8)	61.1 (7.6)	-39.6 (1.1)	528.0 (5.9)	30.1 (2.9)	66.2 (8.6)	-36.6 (1.9)	544.0 (8.7)
26	29.2 (2.4)	55.8 (11.0)	-35.3 (3.9)	542.0 (28.3)	28.8 (2.5)	60.0 (12.2)	-34.5 (1.7)	562.0 (24.0)
27	27.8 (3.5)	52.8 (7.6)	-37.4 (3.2)	539.0 (25.2)	27.6 (3.2)	57.3 (7.3)	-38.8 (2.3)	552.0 (25.0)
28	27.3 (1.5)	47.8 (10.3)	-35.3 (2.9)		27.2 (1.4)	51.6 (10.8)	-35.9 (2.9)	
29	25.9 (2.6)	50.7 (6.4)	-30.0 (11.5)		26.2 (2.4)	56.1 (6.9)	-40.8 (7.2)	
30	26.9 (0.8)	54.9 (3.5)	-30.3 (18.4)		27.6 (0.5)	62.5 (3.5)	-55.9 (5.2)	
Avg	28.6	58.3	-39.5	252.0	28.6	64.4	-50.3	247.0
n	30	30	30	26	30	30	30	25
SD	1.2	5.3	4.5	143.0	0.9	5.9	9.1	151.0
Min	25.9	47.8	-50.5	89.3	26.2	51.6	-62.2	84.6
Max	30.9	67.5	-30.0	542.0	30.1	75.0	-34.5	562.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for July, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.5 (0.9)	57.6 (1.6)	-36.0 (9.9)		27.3 (0.5)	66.5 (1.8)	-59.8 (4.1)	
2	27.2 (0.9)	58.8 (3.4)	-40.5 (9.7)		27.3 (0.7)	67.7 (3.5)	-58.4 (8.8)	
3	28.4 (1.3)	56.1 (5.1)	-44.3 (9.1)		28.4 (1.1)	64.3 (5.5)	-54.4 (6.6)	
4	27.8 (1.1)	62.0 (3.4)	-38.1 (9.8)		28.1 (0.6)	71.8 (3.8)	-61.5 (3.9)	
5	28.6 (1.2)	58.7 (7.4)	-40.8 (8.8)		28.8 (0.8)	67.0 (8.7)	-52.7 (11.1)	
6	28.9 (1.2)	49.7 (8.0)	-38.5 (8.7)		29.1 (1.0)	57.4 (8.6)	-48.4 (13.1)	
7	28.9 (1.1)	46.7 (7.4)	-40.6 (7.8)	196.0 (87.3)	28.9 (0.8)	53.7 (8.7)	-51.0 (10.8)	199.0 (74.3)
8	28.2 (1.0)	52.3 (4.1)	-38.2 (10.0)	134.0 (40.7)	28.2 (0.5)	57.9 (4.6)	-57.9 (5.3)	143.0 (41.1)
9	29.0 (1.1)	53.0 (5.8)	-40.5 (7.7)	218.0 (110.0)	29.1 (1.1)	57.6 (6.0)	-48.1 (12.0)	192.0 (83.5)
10	29.6 (1.3)	58.1 (3.9)	-38.6 (7.2)	294.0 (146.0)	29.7 (1.2)	64.1 (5.4)	-43.5 (12.3)	270.0 (127.0)
11	29.9 (0.6)	62.5 (5.1)	-45.1 (6.4)	275.0 (103.0)	29.5 (0.8)	69.8 (6.5)	-41.2 (10.2)	253.0 (94.6)
12	28.8 (0.8)	50.6 (9.5)	-40.8 (8.9)	173.0 (64.0)	28.7 (0.4)	56.4 (11.6)	-51.9 (10.0)	175.0 (53.2)
13	28.6 (1.3)	47.7 (5.4)	-36.9 (10.9)	174.0 (82.8)	28.4 (1.0)	53.4 (7.6)	-46.0 (14.8)	152.0 (64.4)
14	28.5 (1.4)	45.7 (6.4)	-37.8 (12.2)	183.0 (89.5)	28.2 (1.7)	53.3 (11.7)	-49.1 (8.0)	169.0 (83.8)
15	29.1 (1.4)	56.5 (3.8)	-38.8 (8.4)	232.0 (135.0)	29.2 (1.2)	63.7 (3.8)	-46.5 (13.1)	208.0 (110.0)
16	29.4 (0.9)	54.0 (7.1)	-40.1 (7.9)	220.0 (106.0)	29.1 (0.8)	60.9 (9.4)	-49.1 (11.3)	208.0 (87.8)
17	28.3 (0.6)	57.4 (6.0)	-33.5 (8.7)	121.0 (24.7)	28.3 (0.4)	64.2 (6.7)	-59.4 (4.0)	
18	27.8 (0.8)	60.4 (7.5)	-31.6 (12.0)	112.0 (31.9)	27.9 (0.6)	65.3 (5.4)	-59.9 (4.7)	107.0 (32.0)
19	28.0 (1.0)	57.5 (5.2)	-33.2 (12.0)	128.0 (45.8)	27.9 (0.7)	65.1 (6.0)	-58.5 (5.1)	120.0 (46.1)
20	28.5 (1.2)	57.1 (6.4)	-35.8 (12.1)	165.0 (77.6)	28.4 (1.0)	63.0 (8.7)	-54.8 (10.1)	147.0 (69.9)
21	28.8 (1.2)	58.0 (5.2)	-37.9 (10.1)	193.0 (91.3)	28.8 (1.0)	63.4 (6.4)	-51.6 (10.5)	179.0 (81.9)
22	28.3 (0.4)	65.5 (2.7)	-37.1 (7.3)	126.0 (20.2)	28.7 (0.4)	69.3 (1.7)	-57.9 (3.1)	122.0 (13.3)
23	29.1 (1.1)	62.3 (5.8)	-39.9 (10.4)	171.0 (71.3)	28.9 (0.8)	65.9 (3.9)	-52.3 (10.1)	159.0 (59.6)
24	29.0 (1.2)	57.6 (6.3)	-37.8 (10.4)	210.0 (114.0)	29.0 (1.0)	65.2 (7.1)	-49.1 (13.7)	185.0 (91.9)
25	29.2 (0.8)	59.8 (4.5)	-43.7 (7.3)	178.0 (61.1)	28.9 (0.6)	68.2 (5.5)	-49.2 (9.0)	166.0 (49.7)
26	28.8 (1.2)	59.1 (4.2)	-39.2 (10.7)	175.0 (76.3)	28.8 (0.6)	66.3 (5.0)	-51.5 (12.6)	163.0 (63.8)
27	29.2 (1.2)	59.9 (4.3)	-38.8 (8.0)	230.0 (117.0)	29.3 (0.9)	66.3 (6.0)	-49.5 (12.6)	214.0 (101.0)
28	29.5 (1.0)	62.2 (2.6)	-44.4 (7.0)	212.0 (98.0)	29.3 (0.9)	69.8 (3.9)	-48.9 (8.6)	209.0 (84.1)
29	29.0 (0.9)	60.1 (7.4)	-40.1 (10.7)	165.0 (61.8)	28.8 (0.6)	68.4 (7.6)	-52.5 (9.9)	167.0 (58.5)
30	28.9 (1.2)	55.0 (5.4)	-37.8 (11.4)	172.0 (73.0)	28.6 (0.9)	64.1 (6.2)	-52.7 (11.5)	162.0 (71.4)
31	29.0 (1.1)	55.8 (5.9)	-39.8 (9.9)	181.0 (76.9)	28.8 (0.6)	64.0 (5.9)	-52.3 (11.3)	174.0 (69.9)
Avg	28.7	56.7	-38.9	185.0	28.7	63.7	-52.2	177.0
n	31	31	31	25	31	31	31	24
SD	0.7	4.8	3.1	44.1	0.6	5.0	5.0	37.9
Min	26.5	45.7	-45.1	112.0	27.3	53.3	-61.5	107.0
Max	29.9	65.5	-31.6	294.0	29.7	71.8	-41.2	270.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for August, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	29.1 (1.0)	57.1 (4.6)	-39.8 (10.5)	172.0 (68.2)	28.8 (0.6)	65.4 (5.2)	-53.2 (10.4)	170.0 (66.4)
2	28.5 (0.8)	55.1 (8.2)	-37.6 (10.8)	139.0 (39.5)	28.5 (0.4)	62.3 (9.7)	-57.9 (6.2)	138.0 (40.0)
3	29.3 (1.5)	56.9 (3.4)	-38.1 (10.5)	216.0 (112.0)	29.1 (1.4)	64.3 (4.8)	-49.0 (12.1)	217.0 (116.0)
4	29.9 (1.0)	63.2 (2.4)	-41.5 (7.7)	200.0 (81.2)	29.3 (0.7)	71.2 (2.9)	-48.6 (9.5)	210.0 (76.5)
5	29.2 (1.1)	56.3 (7.3)	-38.0 (11.0)	165.0 (68.0)	28.9 (0.7)	63.1 (7.8)	-52.7 (11.5)	175.0 (74.2)
6	28.8 (1.4)	51.2 (5.2)	-35.1 (13.0)	158.0 (67.4)	28.5 (0.9)	58.9 (6.0)	-53.7 (12.7)	161.0 (83.7)
7	28.7 (1.2)	56.3 (4.3)	-34.6 (11.5)	137.0 (46.9)	28.6 (0.6)	65.2 (4.4)	-58.8 (7.5)	135.0 (56.0)
8	29.5 (1.7)	62.6 (2.7)	-39.1 (6.1)	365.0 (169.0)	29.6 (1.7)	69.3 (2.8)	-45.0 (11.3)	354.0 (164.0)
9	30.5 (2.1)	64.3 (5.3)	-38.6 (3.3)	452.0 (75.8)	30.5 (2.2)	69.6 (6.4)	-37.2 (1.4)	446.0 (80.7)
10	29.4 (1.5)	62.8 (6.4)	-37.2 (3.4)	456.0 (109.0)	29.5 (1.5)	68.4 (6.8)	-38.2 (2.4)	442.0 (108.0)
11	28.4 (1.0)	64.7 (3.4)	-45.0 (6.0)	305.0 (122.0)	28.0 (1.0)	71.5 (3.4)	-46.4 (6.4)	306.0 (123.0)
12	27.5 (1.0)	61.1 (4.5)	-40.0 (10.0)	275.0 (151.0)	27.5 (1.1)	68.8 (6.2)	-50.4 (9.8)	276.0 (139.0)
13	28.5 (1.8)	56.7 (5.7)	-29.4 (10.8)	271.0 (126.0)	28.6 (1.6)	63.4 (8.3)	-50.5 (9.2)	278.0 (134.0)
14	29.2 (1.4)	56.2 (7.6)	-30.3 (8.6)	312.0 (185.0)	29.0 (1.2)	62.8 (8.1)	-42.5 (15.7)	312.0 (186.0)
15	29.8 (1.3)	55.6 (6.7)	-28.9 (8.7)	332.0 (178.0)	29.2 (1.6)	63.7 (9.4)	-32.4 (7.5)	327.0 (172.0)
16	30.9 (1.8)	58.1 (7.4)	-32.8 (8.6)	385.0 (158.0)	30.5 (2.1)	63.9 (9.4)	-34.9 (6.4)	389.0 (152.0)
17	29.9 (0.8)	65.8 (2.2)	-26.2 (7.7)	266.0 (129.0)	29.2 (1.1)	73.6 (3.7)	-30.3 (6.6)	
18	29.7 (0.6)	65.7 (2.9)	-22.9 (5.6)	198.0 (71.4)	28.5 (0.7)	75.0 (4.5)	-27.4 (3.2)	254.0 (87.3)
19	29.6 (0.8)	62.4 (4.5)	-26.8 (5.6)	230.0 (124.0)	28.7 (1.2)	70.1 (5.6)	-30.2 (5.6)	260.0 (133.0)
20	29.7 (0.7)	61.5 (4.8)	-25.0 (5.0)	193.0 (65.7)	28.5 (0.9)	70.3 (5.4)	-27.7 (3.3)	235.0 (88.8)
21	29.0 (1.0)	58.9 (3.9)	-24.8 (4.5)	155.0 (50.7)	27.9 (0.9)	68.7 (4.7)	-23.2 (6.0)	169.0 (66.2)
22	27.8 (0.7)	61.1 (2.4)	-22.3 (4.3)	110.0 (12.5)	27.0 (0.4)	69.8 (3.6)	-28.0 (11.7)	112.0 (18.2)
23	27.8 (0.9)	59.1 (4.6)	-22.6 (4.6)	119.0 (25.4)	27.3 (0.6)	66.4 (5.9)	-30.1 (9.1)	124.0 (29.7)
24	28.5 (1.3)	58.0 (5.6)	-23.2 (4.5)	150.0 (52.3)	27.6 (1.1)	63.8 (7.2)	-30.8 (9.4)	156.0 (70.5)
25	29.0 (1.7)	60.1 (3.8)	-25.9 (5.5)	179.0 (82.1)	28.2 (1.3)	63.1 (3.3)	-28.8 (9.4)	198.0 (113.0)
26	29.4 (1.2)	63.7 (3.1)	-22.1 (6.8)	154.0 (50.9)	28.3 (1.0)	67.7 (2.2)	-20.6 (4.7)	188.0 (87.4)
27	28.6 (0.9)	68.7 (2.7)	-21.4 (4.4)	121.0 (26.9)	27.9 (1.0)	68.1 (3.1)	-21.1 (6.3)	137.0 (37.1)
28	28.6 (0.6)	78.3 (1.5)	-20.6 (4.4)	116.0 (24.3)	28.0 (0.7)	74.9 (1.2)	-23.5 (7.0)	127.0 (23.9)
29	28.1 (0.8)	72.1 (5.5)	-20.5 (5.2)	108.0 (18.5)	27.6 (0.8)	68.5 (5.9)	-32.1 (10.6)	116.0 (28.1)
30	27.2 (0.6)	66.4 (7.4)	-18.1 (4.4)	97.2 (7.5)	26.9 (0.8)	63.4 (7.4)	-40.3 (13.4)	92.3 (21.3)
31	27.9 (1.3)	62.2 (9.4)	-14.6 (5.6)	92.0 (21.8)	27.2 (1.1)	63.9 (7.2)	-42.1 (15.4)	92.2 (29.9)
Avg	29.0	61.4	-29.8	214.0	28.5	67.1	-38.3	220.0
n	31	31	31	31	31	31	31	30
SD	0.8	5.4	8.0	101.0	0.9	3.9	11.3	99.0
Min	27.2	51.2	-45.0	92.0	26.9	58.9	-58.8	92.2
Max	30.9	78.3	-14.6	456.0	30.5	75.0	-20.6	446.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for September, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	28.3 (1.1)	59.8 (7.0)	-14.9 (5.5)	95.0 (27.5)	27.6 (0.9)	61.9 (6.6)	-39.4 (14.3)	102.0 (34.4)
2	28.5 (1.0)	56.3 (5.4)	-21.4 (7.9)	118.0 (29.5)	27.7 (0.9)	60.2 (7.7)	-38.0 (13.8)	122.0 (50.7)
3	28.7 (0.9)	56.8 (5.6)	-21.8 (6.4)	126.0 (41.4)	28.1 (1.0)	61.0 (8.8)	-35.8 (11.6)	147.0 (73.0)
4	28.8 (0.9)	59.9 (7.7)	-22.4 (8.2)	120.0 (43.6)	28.3 (1.0)	62.0 (8.5)	-34.7 (9.6)	145.0 (70.7)
5	29.3 (1.1)	55.1 (4.9)	-26.8 (4.9)	144.0 (50.7)	28.5 (1.1)	61.3 (6.4)	-33.3 (8.3)	175.0 (88.8)
6	29.1 (0.8)	57.8 (2.4)	-26.7 (5.4)	126.0 (31.5)	28.2 (0.7)	64.6 (3.6)	-32.8 (8.0)	139.0 (44.5)
7	29.2 (0.8)	61.7 (2.4)	-26.1 (6.0)	120.0 (23.4)	28.3 (0.6)	68.4 (3.0)	-30.1 (7.1)	131.0 (29.1)
8	29.3 (0.7)	65.5 (1.7)	-32.8 (263.0)	126.0 (27.0)	28.3 (0.8)	73.3 (2.1)	-33.4 (263.0)	133.0 (29.0)
9	29.8 (0.8)	64.2 (3.8)	-25.7 (5.7)	148.0 (43.4)	28.9 (0.9)	71.6 (3.9)	-22.4 (6.5)	159.0 (60.6)
10	29.6 (0.9)	60.4 (4.6)	-27.3 (4.8)	145.0 (47.8)	28.8 (1.0)	68.3 (5.3)	-26.6 (8.7)	158.0 (64.4)
11	29.3 (1.0)	57.0 (5.7)	-26.7 (5.8)	140.0 (47.1)	28.6 (0.9)	64.7 (7.2)	-28.8 (10.7)	152.0 (65.8)
12	28.7 (0.8)	63.2 (6.2)	-19.3 (7.0)	112.0 (40.3)	28.2 (1.0)	65.3 (5.0)	-31.0 (12.6)	119.0 (36.6)
13	28.8 (0.8)	57.3 (4.9)	-21.6 (6.6)	123.0 (41.6)	28.1 (0.9)	62.8 (7.0)	-34.1 (11.2)	145.0 (69.3)
14	29.7 (1.2)	60.5 (7.2)	-24.2 (7.3)	164.0 (76.3)	28.7 (1.0)	66.1 (5.6)	-29.7 (6.3)	210.0 (117.0)
15	29.9 (0.9)	58.1 (5.5)	-26.0 (5.2)	191.0 (98.4)	28.8 (1.1)	65.2 (6.9)	-28.4 (5.0)	242.0 (145.0)
16	28.9 (0.7)	56.4 (4.8)	-25.5 (5.4)	113.0 (21.5)	27.9 (0.8)	62.1 (6.2)	-31.9 (10.3)	117.0 (29.9)
17	28.4 (1.0)	54.3 (5.3)	-23.3 (4.8)	110.0 (23.2)	27.5 (1.0)	60.6 (6.7)	-39.6 (14.0)	103.0 (35.3)
18								
19	28.5 (0.8)	53.8 (6.4)	-24.5 (4.7)	109.0 (21.8)	27.7 (0.8)	60.9 (9.3)	-37.6 (11.6)	105.0 (33.8)
20	28.7 (1.2)	59.6 (4.4)	-23.5 (5.4)	120.0 (29.3)	27.9 (1.1)	68.0 (5.2)	-36.9 (12.8)	120.0 (46.0)
21	30.2 (0.6)	65.6 (3.7)	-23.8 (4.3)	156.0 (37.4)	28.9 (0.6)	74.2 (3.6)	-27.6 (3.1)	193.0 (63.5)
22	30.4 (0.7)	65.2 (4.2)	-25.6 (5.4)	172.0 (80.0)	29.1 (0.8)	73.3 (5.4)	-27.3 (6.0)	226.0 (112.0)
23	30.1 (0.6)	63.2 (5.4)	-24.3 (4.5)	138.0 (54.5)	28.6 (0.7)	71.1 (5.6)	-22.5 (4.9)	178.0 (75.2)
24	29.3 (0.6)	64.5 (1.1)	-27.0 (5.4)	124.0 (20.6)	28.4 (0.6)	73.6 (1.4)	-27.5 (6.3)	133.0 (25.5)
25	28.5 (0.7)	61.2 (1.7)	-28.5 (3.6)	106.0 (10.1)	27.8 (0.5)	70.0 (2.6)	-34.8 (9.1)	106.0 (13.8)
26	28.7 (0.7)	61.5 (3.9)	-27.6 (4.5)	110.0 (16.7)	27.9 (0.5)	70.0 (5.2)	-31.7 (10.4)	111.0 (18.9)
27	28.5 (0.9)	58.5 (4.7)	-27.3 (5.3)	108.0 (17.8)	27.8 (0.7)	66.5 (6.8)	-36.9 (9.9)	113.0 (29.4)
28	27.5 (0.3)	53.8 (3.6)	-26.0 (6.3)	92.3 (6.0)	26.9 (0.7)	61.0 (4.0)	-42.8 (7.8)	84.1 (13.1)
29	27.2 (0.3)	59.0 (1.4)	-18.9 (4.8)	93.0 (4.7)	26.0 (0.4)	68.6 (1.8)	-50.8 (6.8)	72.7 (11.6)
30	27.4 (0.4)	54.2 (5.3)	-20.9 (5.3)	90.6 (5.0)	26.4 (0.9)	63.6 (5.6)	-55.3 (6.9)	67.4 (13.1)
Avg	28.9	59.5	-24.5	126.0	28.1	66.2	-33.9	138.0
n	29	29	29	29	29	29	29	29
SD	0.8	3.6	3.4	24.0	0.7	4.4	7.2	41.7
Min	27.2	53.8	-32.8	90.6	26.0	60.2	-55.3	67.4
Max	30.4	65.6	-14.9	191.0	29.1	74.2	-22.4	242.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for October, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.5 (0.6)	54.6 (4.4)	-24.8 (7.9)	89.4 (10.2)	26.3 (1.1)	67.3 (5.6)	-51.9 (10.1)	76.8 (20.7)
2	27.5 (0.5)	58.6 (5.2)	-27.8 (5.8)	88.8 (4.6)	26.8 (0.5)	67.7 (5.5)	-49.0 (6.4)	81.0 (12.9)
3	27.4 (0.4)	59.5 (1.5)	-26.1 (4.9)	88.6 (5.2)	26.7 (0.5)	69.8 (2.5)	-52.9 (5.7)	69.2 (10.9)
4	27.4 (0.4)	57.3 (3.9)	-24.2 (5.6)	88.5 (5.0)	26.5 (0.6)	67.5 (5.8)	-55.3 (6.4)	63.2 (12.8)
5	27.5 (0.7)	56.7 (3.7)	-24.2 (7.2)	94.9 (6.5)	26.5 (1.0)	65.6 (6.8)	-51.1 (11.9)	70.9 (21.9)
6	27.9 (0.8)	58.3 (2.5)	-26.6 (7.2)	92.0 (7.2)	27.1 (0.8)	70.5 (3.1)	-46.4 (13.2)	80.1 (27.5)
7	27.2 (0.5)	53.5 (1.9)	-23.9 (5.3)	88.4 (6.0)	26.6 (0.4)	65.2 (2.1)	-54.4 (6.7)	73.9 (21.5)
8	27.2 (0.4)	59.5 (2.4)	-24.8 (5.6)	90.7 (6.1)	26.6 (0.5)	68.5 (2.5)	-54.1 (7.0)	71.1 (15.3)
9	27.5 (0.3)	63.0 (1.0)	-24.4 (5.3)	90.7 (4.7)	26.8 (0.5)	72.1 (0.8)	-54.4 (6.0)	71.9 (15.8)
10	27.1 (0.9)	58.5 (4.4)	-21.0 (5.1)	83.0 (18.8)	26.5 (0.8)	66.8 (6.4)	-59.0 (5.4)	55.3 (11.4)
11	25.4 (0.6)	62.9 (6.6)	-15.5 (2.5)	58.1 (13.7)	25.9 (0.6)	65.6 (4.9)	-59.6 (4.2)	53.1 (5.7)
12	27.0 (1.0)	61.3 (5.5)	-20.0 (4.3)	79.0 (20.0)	26.2 (0.6)	72.8 (2.4)	-57.8 (4.9)	62.0 (10.4)
13	27.5 (0.6)	52.3 (3.2)	-23.0 (6.8)	88.7 (14.5)	26.3 (0.5)	69.8 (4.5)	-54.3 (4.0)	70.2 (7.7)
14	27.4 (0.4)	53.9 (1.5)	-25.6 (4.2)	82.4 (7.9)	25.9 (0.5)	72.7 (2.7)	-56.0 (2.1)	62.5 (4.8)
15	27.3 (0.3)	57.8 (3.1)	-24.8 (4.1)	78.2 (10.3)	25.6 (0.4)	72.8 (1.4)	-54.2 (2.8)	67.0 (6.8)
16	27.2 (0.3)	59.0 (2.8)	-23.9 (4.0)	75.7 (11.5)	25.4 (0.4)	67.4 (3.6)	-51.4 (12.0)	66.9 (8.8)
17	27.3 (0.4)	56.9 (5.1)	-22.9 (4.1)	84.0 (11.9)	25.9 (0.8)	69.6 (3.2)	-48.0 (7.0)	77.4 (13.2)
18	28.0 (0.4)	54.0 (2.0)	-26.9 (5.3)	93.2 (5.5)	26.3 (0.3)	65.1 (4.9)	-46.2 (7.1)	84.3 (13.0)
19	28.5 (0.6)	52.9 (2.8)	-28.7 (5.8)	97.5 (11.6)	27.6 (0.9)	62.6 (5.1)	-46.8 (9.5)	83.4 (16.2)
20	29.1 (0.7)	56.9 (2.2)	-29.1 (4.6)	93.2 (15.9)	27.5 (0.8)	65.4 (3.7)	-39.9 (16.2)	128.0 (72.8)
21	29.0 (0.8)	55.1 (4.1)	-30.8 (4.6)	92.6 (22.4)	27.7 (1.0)	60.2 (5.1)	-29.8 (15.5)	115.0 (56.9)
22	28.8 (0.5)	58.0 (2.5)	-30.6 (4.4)	90.1 (9.2)	27.2 (1.3)	66.2 (4.0)	-46.1 (13.1)	134.0 (97.0)
23	28.9 (0.7)	62.3 (2.1)	-31.7 (8.2)		28.0 (0.7)	73.5 (2.1)	-48.8 (9.4)	82.4 (24.0)
24	28.0 (0.3)	60.0 (0.8)	-27.2 (4.5)		26.8 (0.4)	72.8 (1.4)	-59.2 (2.5)	54.1 (5.3)
25	28.1 (0.5)	56.4 (3.4)	-29.6 (7.8)	86.7 (12.5)	27.0 (0.7)	67.2 (6.2)	-52.8 (8.0)	66.9 (17.9)
26								
27								
28	28.2 (0.5)	62.7 (2.2)	-34.6 (5.3)	89.3 (8.6)	26.6 (1.5)	71.9 (2.5)	-45.6 (19.0)	94.5 (56.9)
29	27.7 (0.4)	60.7 (1.9)	-31.5 (5.2)	96.8 (9.3)	27.1 (0.5)	70.1 (2.8)	-49.8 (11.2)	80.9 (23.1)
30	28.7 (0.8)	62.4 (2.0)	-35.6 (5.2)	127.0 (28.6)	27.8 (0.7)	71.7 (3.2)	-37.4 (8.9)	145.0 (50.4)
31	26.9 (0.4)	56.2 (1.8)	-28.7 (6.3)		26.2 (0.5)	65.0 (2.1)	-56.4 (3.2)	64.8 (7.4)
Avg	27.7	58.0	-26.5	88.8	26.7	68.4	-50.6	79.5
n	29	29	29	26	29	29	29	29
SD	0.8	3.1	4.2	11.0	0.6	3.3	6.6	22.8
Min	25.4	52.3	-35.6	58.1	25.4	60.2	-59.6	53.1
Max	29.1	63.0	-15.5	127.0	28.0	73.5	-29.8	145.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for November, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	26.7 (0.4)	55.3 (2.1)	-22.8 (4.8)	80.4 (9.5)	25.7 (0.7)	62.3 (4.1)	-57.8 (4.8)	60.2 (9.1)
2	26.7 (0.5)	57.1 (2.1)	-23.8 (10.2)	84.5 (13.3)	26.1 (0.8)	64.7 (2.4)	-53.4 (8.6)	66.5 (15.9)
3	27.2 (0.7)	58.1 (1.6)	-21.5 (4.2)	75.1 (13.2)	25.7 (0.5)	66.6 (3.9)	-56.9 (9.6)	53.2 (11.1)
4	27.9 (0.7)	58.3 (1.9)	-26.3 (5.9)	77.9 (8.5)	26.2 (0.6)	66.2 (3.4)	-54.9 (6.4)	60.8 (12.1)
5	28.0 (0.5)	56.3 (2.3)	-26.6 (5.1)	79.6 (6.5)	26.2 (0.6)	64.2 (3.8)	-58.9 (5.2)	55.1 (11.7)
6	27.9 (0.6)	60.7 (4.2)	-22.9 (6.4)	76.4 (16.7)	26.5 (1.1)	66.6 (2.9)	-46.8 (10.3)	72.1 (18.0)
7	28.0 (0.6)	63.5 (3.1)	-24.4 (7.6)	82.9 (24.7)	27.4 (0.6)	64.1 (1.8)	-40.2 (5.7)	103.0 (32.9)
8	27.9 (0.8)	66.6 (6.6)	-24.9 (7.1)	82.0 (22.9)	27.2 (0.6)	61.6 (3.4)	-44.7 (7.9)	111.0 (46.9)
9	28.0 (0.8)	64.8 (4.6)	-30.8 (8.1)	92.0 (22.4)	27.4 (0.5)	66.3 (3.4)	-43.1 (7.2)	103.0 (27.4)
10	27.2 (0.4)	58.2 (2.3)	-32.4 (5.2)	91.0 (6.9)	27.0 (0.3)	66.4 (1.7)	-48.5 (5.5)	81.6 (9.4)
11	27.2 (0.5)	55.5 (2.9)	-22.5 (5.9)	80.2 (13.6)	26.5 (0.4)	64.7 (2.8)	-54.1 (7.0)	64.5 (12.8)
12	27.4 (0.5)	57.2 (2.9)	-24.8 (5.5)	80.4 (9.9)	26.5 (0.5)	64.9 (2.9)	-54.9 (5.6)	62.8 (12.9)
13	27.6 (0.6)	57.1 (2.7)	-30.0 (7.8)	89.5 (11.5)	26.7 (0.6)	64.8 (2.6)	-49.8 (11.4)	77.7 (27.5)
14	28.1 (0.7)	56.9 (2.3)	-32.8 (6.0)	100.0 (14.3)	27.0 (0.6)	63.7 (2.0)	-44.4 (10.1)	97.9 (28.4)
15	27.4 (0.5)	56.3 (1.7)	-33.6 (5.4)	88.1 (7.6)	26.7 (0.3)	60.3 (2.0)	-51.4 (5.0)	81.1 (12.1)
16	27.2 (0.4)	59.2 (1.8)	-25.7 (3.7)	84.8 (4.8)	26.1 (0.5)	66.1 (5.4)	-54.4 (11.5)	62.7 (8.7)
17	27.3 (0.5)	60.4 (1.0)	-27.0 (5.0)	82.8 (7.5)	26.0 (0.6)	69.6 (2.3)	-51.4 (6.3)	72.3 (11.8)
18	27.6 (0.5)	61.9 (1.4)	-31.6 (6.2)	84.2 (5.1)	26.5 (0.6)	70.3 (1.9)	-52.0 (2.9)	78.1 (8.9)
19	27.1 (0.5)	63.5 (2.4)	-29.3 (5.9)	82.0 (9.1)	26.6 (0.2)	69.7 (1.0)	-55.4 (4.2)	68.8 (10.8)
20	27.0 (0.4)	62.3 (1.4)	-31.2 (6.1)	85.9 (4.6)	26.6 (0.4)	68.3 (1.2)	-53.9 (5.1)	72.4 (12.7)
21	27.0 (0.4)	60.7 (1.5)	-29.3 (6.1)	87.6 (5.3)	26.6 (0.4)	67.6 (1.5)	-55.0 (5.0)	72.2 (11.9)
22	27.2 (0.5)	59.4 (1.5)	-29.7 (6.9)	91.5 (7.0)	26.6 (0.3)	64.1 (2.9)	-53.6 (8.4)	74.6 (18.5)
23	27.5 (0.5)	61.2 (1.6)	-28.6 (4.7)	86.7 (5.2)	26.5 (0.4)	66.8 (3.7)	-56.2 (6.1)	68.4 (12.3)
24	27.6 (0.6)	64.7 (2.1)	-31.1 (7.2)	82.0 (9.7)	26.5 (0.6)	72.5 (2.1)	-56.4 (6.5)	67.4 (14.1)
25	27.7 (0.4)	64.7 (1.1)	-33.4 (4.9)	81.3 (5.7)	26.4 (0.5)	70.2 (1.8)	-56.2 (7.3)	65.5 (14.1)
26	27.3 (0.3)	63.0 (0.8)	-28.1 (4.4)	72.6 (9.4)	25.9 (0.6)	66.6 (1.4)	-58.3 (4.8)	56.4 (9.3)
27	27.1 (0.4)	61.8 (1.3)	-23.5 (3.6)	72.0 (7.9)	25.6 (0.9)	65.0 (1.3)	-54.4 (7.7)	52.4 (5.1)
28	27.3 (0.7)	62.0 (1.0)	-27.1 (6.6)	73.4 (8.8)	25.8 (0.9)	64.7 (1.5)	-54.5 (5.9)	59.9 (10.5)
29	27.7 (0.5)	60.8 (0.8)	-30.1 (7.0)	75.1 (11.0)	25.8 (0.8)	61.2 (2.1)	-52.6 (7.6)	67.0 (16.0)
30	26.9 (0.3)	59.9 (1.0)	-24.8 (4.0)	72.4 (7.1)	25.4 (0.7)	64.4 (3.5)	-50.7 (8.4)	55.4 (5.7)
Avg	27.4	60.2	-27.7	82.5	26.4	65.8	-52.5	71.5
n	30	30	30	30	30	30	30	30
SD	0.4	3.0	3.5	6.6	0.5	2.8	4.6	15.0
Min	26.7	55.3	-33.6	72.0	25.4	60.3	-58.9	52.4
Max	28.1	66.6	-21.5	100.0	27.4	72.5	-40.2	111.0

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Table F3. Daily means (SD) of environmental parameters at site IN2B for December, 2009.

Day	House 8				House 9			
	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}	Temp., °C	RH, %	ΔP, Pa	Airflow, dsm^3s^{-1}
1	27.2 (0.6)	61.3 (1.1)	-28.1 (5.4)	73.6 (9.0)	25.6 (0.8)	66.1 (1.2)	-51.1 (6.4)	61.6 (9.1)
2	26.9 (0.4)	62.4 (1.0)	-22.9 (3.6)	71.8 (8.8)	24.7 (0.7)	63.1 (1.3)	-51.2 (7.9)	57.5 (7.2)
3	27.0 (0.4)	62.4 (1.1)	-26.1 (5.2)	68.6 (7.6)	24.0 (1.0)	60.5 (2.2)	-52.5 (9.2)	56.3 (13.9)
4	26.1 (0.8)	64.3 (3.3)	-21.2 (3.6)	57.6 (17.2)	24.1 (0.6)	56.3 (2.4)	-51.1 (10.2)	49.6 (5.6)
5	25.3 (0.5)	68.7 (2.3)	-18.2 (2.8)	39.4 (7.4)	24.8 (0.4)	55.7 (1.3)	-51.6 (7.9)	55.2 (6.1)
6	25.3 (0.6)	66.9 (1.6)	-19.3 (3.2)	41.2 (9.9)	24.9 (0.6)	56.8 (1.7)	-55.4 (8.5)	46.9 (9.4)
7	26.1 (0.7)	64.3 (4.3)	-23.7 (5.7)	59.8 (16.9)	25.1 (0.7)	55.5 (2.6)	-56.2 (8.1)	51.0 (7.1)
8	26.4 (0.4)	64.4 (2.3)	-27.5 (4.7)	73.0 (6.6)	24.5 (0.6)	54.0 (1.9)	-57.3 (6.9)	54.3 (9.3)
9	26.3 (0.8)	64.2 (3.5)	-37.8 (9.5)		24.0 (0.6)	57.1 (2.1)	-60.4 (7.2)	53.1 (17.2)
10	25.2 (0.4)	69.7 (1.8)	-28.4 (5.4)	63.9 (6.5)	23.1 (0.4)	57.9 (2.9)	-57.6 (10.4)	46.3 (10.6)
11	25.4 (0.3)	66.3 (3.2)	-25.7 (5.2)	73.0 (10.6)	23.0 (1.6)	52.7 (3.2)	-52.6 (8.2)	59.3 (13.2)
12	26.1 (0.3)	64.3 (2.5)	-30.2 (5.7)	76.6 (9.3)	23.8 (0.7)	51.7 (2.1)	-53.2 (4.9)	67.1 (8.6)
13	26.6 (0.3)	63.1 (0.6)	-34.3 (4.6)		24.2 (0.2)	54.9 (1.5)	-50.8 (5.1)	78.3 (13.0)
14	26.9 (0.5)	64.5 (1.5)	-35.6 (5.4)	89.6 (6.6)	24.5 (0.6)	55.0 (1.4)	-51.3 (8.3)	78.9 (16.9)
15	26.3 (0.5)	65.1 (1.0)	-26.4 (4.3)	73.9 (9.5)	24.0 (0.6)	53.6 (1.5)	-58.2 (7.9)	52.6 (5.9)
16	25.7 (0.4)	65.8 (1.1)	-24.7 (3.2)	67.6 (7.8)	23.3 (0.7)	56.2 (1.7)	-52.1 (7.5)	56.0 (5.3)
17	25.8 (1.0)	65.3 (2.0)	-27.6 (5.1)	73.4 (6.9)	24.9 (1.4)	53.1 (3.2)	-57.8 (6.5)	55.1 (8.0)
18	24.9 (1.5)	70.0 (3.8)	-26.4 (4.7)		25.7 (0.9)	53.5 (3.1)	-54.6 (10.1)	66.9 (17.1)
19	25.9 (0.8)	73.5 (4.5)	-24.7 (4.0)		25.9 (0.3)	56.9 (0.8)	-57.3 (2.4)	61.4 (3.9)
20	26.1 (0.5)	73.0 (5.0)	-25.9 (5.3)		25.6 (0.3)	58.5 (0.9)	-57.3 (2.4)	60.6 (4.4)
21	26.2 (0.7)	72.7 (4.1)	-25.5 (4.7)		25.7 (0.3)	55.7 (3.7)	-57.4 (4.2)	57.9 (5.1)
22	26.3 (0.2)	64.9 (4.4)	-27.2 (4.6)	75.6 (7.3)	26.1 (0.4)	56.2 (1.4)	-57.6 (4.6)	57.8 (4.7)
23	26.2 (0.2)	63.2 (2.6)	-24.3 (4.6)	75.1 (10.0)	25.7 (0.4)	58.8 (1.0)	-52.9 (4.9)	61.3 (4.2)
24	26.3 (0.3)	63.5 (4.2)	-24.3 (4.8)	79.6 (7.9)	26.0 (0.6)	56.2 (3.8)	-52.4 (5.0)	65.6 (4.5)
25	27.0 (0.5)	60.6 (1.3)	-31.2 (7.8)	85.3 (9.3)	26.1 (0.5)	56.9 (1.1)	-50.6 (4.5)	76.7 (15.5)
26	26.7 (0.5)	62.8 (3.2)	-28.2 (5.0)	74.2 (6.8)	25.4 (0.4)	58.5 (0.9)	-54.0 (4.4)	58.9 (7.8)
27	26.3 (0.5)	67.8 (2.1)	-24.9 (3.9)	74.9 (9.8)	25.0 (0.3)	60.1 (0.9)	-54.9 (2.0)	61.7 (3.0)
28	26.3 (0.5)	70.0 (1.9)	-24.5 (6.0)	69.0 (7.7)	25.4 (0.6)	59.0 (2.9)	-56.0 (7.0)	58.1 (8.5)
29	26.3 (0.5)	65.9 (3.6)	-23.2 (4.8)	73.1 (10.2)	25.3 (0.5)	58.5 (1.7)	-53.5 (5.4)	62.7 (4.9)
30	26.4 (0.4)	63.1 (3.3)	-26.3 (5.1)	75.7 (8.2)	25.4 (0.5)	61.6 (1.0)	-55.0 (4.7)	59.5 (5.5)
31	26.8 (0.5)	64.5 (4.6)	-29.8 (5.8)		26.2 (0.6)	59.4 (2.9)	-58.1 (3.4)	58.9 (8.2)
Avg	26.2	65.8	-26.6	70.2	24.9	57.1	-54.6	59.6
n	31	31	31	24	31	31	31	31
SD	0.6	3.3	4.2	11.2	0.9	3.1	2.8	7.8
Min	24.9	60.6	-37.8	39.4	23.0	51.7	-60.4	46.3
Max	27.2	73.5	-18.2	89.6	26.2	66.1	-50.6	78.9

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Table F4. PM 10 concentrations.

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for January, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3			571 (492)		579 (11)	83 (39)
4			1090 (559)	1430 (553)	537 (13)	191 (286)
5	65 (26)		1030 (480)	1300 (597)	495 (13)	40 (20)
6			950 (601)	1180 (739)	450 (13)	27 (17)
7	96 (65)		725 (531)	805 (605)	400 (15)	314 (428)
8	88 (61)		681 (365)	787 (555)	349 (15)	49 (72)
9	49 (44)		650 (596)	993 (604)	291 (7)	280 (375)
10	32 (23)		342 (600)	1300 (611)	292 (6)	18 (9)
11	14 (8)		1070 (1040)	1190 (764)	291 (3)	220 (229)
12	19 (13)	1420 (604)	1450 (1080)	863 (386)	282 (2)	83 (83)
13	20 (10)	1570 (886)		915 (464)	277 (2)	95 (60)
14				1510 (1620)	269 (2)	234 (258)
15		1600 (944)	1100 (366)	1590 (1950)	261 (2)	163 (129)
16		1800 (1620)	1160 (537)	1250 (1180)	255 (2)	64 (53)
17		1470 (869)	896 (616)	1320 (1360)	255 (2)	54 (30)
18			420 (701)	1610 (943)	501 (547)	130 (100)
19						
20		1090 (488)	1480 (633)	1350 (614)	1860 (1120)	92 (38)
21		1690 (1490)		1130 (748)	1370 (586)	172 (234)
22		1310 (1030)		1090 (675)	1580 (2240)	125 (61)
23				1120 (870)	1080 (633)	128 (93)
24		1050 (567)	1470 (751)	1050 (906)	1840 (3290)	165 (147)
25		1020 (561)	1570 (769)	761 (450)	1080 (827)	125 (192)
26		886 (398)	1310 (568)	950 (515)	791 (450)	114 (61)
27		893 (448)	1430 (550)	839 (406)	947 (487)	139 (57)
28		1300 (845)	1820 (1160)	1290 (1690)	859 (394)	135 (184)
29	93 (92)		1680 (1050)		1380 (1520)	92 (131)
30					883 (882)	107 (61)
31						
Avg	53	1320	1090	1150	720	127
n	9	13	21	24	27	27
SD	31.7	295.0	410.0	248.0	499.0	72.0
Min	14	886	342	761	255	18
Max	96	1800	1820	1610	1860	314

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for February, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9	42 (54)	1040 (673)	1460 (682)	551 (441)	82 (8)	100 (58)
10		569 (881)	633 (451)	161 (165)		82 (21)
11		1030 (1070)		566 (1190)		69 (51)
12						
13		937 (654)		362 (375)	40 (79)	84 (29)
14		758 (522)		153 (322)	31 (29)	49 (19)
15		551 (437)		57 (78)	15 (33)	75 (29)
16		531 (334)		78 (90)	24 (63)	43 (11)
17	56 (49)	601 (510)		150 (228)	6 (27)	41 (18)
18		734 (702)		189 (254)	26 (63)	88 (79)
19		472 (315)		112 (130)	5 (13)	66 (57)
20		409 (374)		179 (541)	10 (19)	63 (91)
21		561 (497)			500 (758)	87 (133)
22		730 (490)			647 (529)	40 (21)
23						
24		392 (232)			32 (94)	84 (17)
25	54 (21)	495 (458)			486 (2290)	128 (114)
26		330 (223)			31 (76)	39 (34)
27		377 (262)			14 (14)	48 (45)
28						
29					15 (12)	135 (177)
Avg	50	619	1050	233	123	73
n	3	17	2	11	16	18
SD	6.0	215.0	414.0	171.0	206.0	27.7
Min	42	330	633	57	5	39
Max	56	1040	1460	566	647	135

ED_001509B_00005068-00136

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for March, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1					17 (15)	78 (78)
2					3 (2)	27 (14)
3					7 (19)	132 (180)
4					30 (85)	29 (21)
5					26 (39)	117 (197)
6	44 (13)	452 (914)			42 (60)	318 (401)
7		151 (145)			6 (21)	173 (236)
8		123 (137)			24 (35)	111 (141)
9		164 (143)			799 (4120)	35 (13)
10		206 (252)			6 (29)	196 (228)
11		186 (173)			292 (502)	210 (331)
12		155 (117)			706 (955)	165 (363)
13	73 (56)	183 (246)			528 (688)	197 (327)
14	105 (78)	162 (143)			548 (703)	246 (511)
15	59 (39)	216 (327)			493 (681)	166 (324)
16	46 (38)	81 (168)			611 (1290)	30 (9)
17		181 (270)			57 (105)	251 (442)
18	63 (55)	159 (126)			13 (56)	205 (386)
19		56 (84)			53 (99)	95 (165)
20	25 (31)	133 (181)			58 (83)	104 (161)
21		161 (147)			14 (0)	146 (282)
22		162 (145)			15 (0)	35 (34)
23		152 (266)			16 (0)	34 (31)
24		306 (440)			17 (0)	131 (209)
25		211 (324)			19 (1)	128 (204)
26		172 (207)			28 (6)	179 (289)
27		233 (288)			48 (6)	131 (291)
28		599 (916)			68 (5)	123 (260)
29		440 (788)			87 (6)	60 (95)
30		188 (111)			109 (7)	30 (19)
31		573 (838)			131 (7)	203 (338)
Avg	59	223			157	132
n	7	26	0	0	31	31
SD	23.4	136.0			235.0	75.2
Min	25	56			3	27
Max	105	599			799	318

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for April, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	963 (1930)	360 (495)			150 (4)	101 (177)
2	934 (2400)	184 (111)			133 (241)	96 (190)
3	406 (1650)				11 (0)	147 (215)
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18			151 (313)		102 (146)	175 (416)
19	166 (576)		236 (636)		65 (44)	218 (434)
20	146 (440)		124 (210)		1030 (1520)	63 (19)
21	88 (389)		1030 (2280)		107 (60)	552 (785)
22	179 (471)		162 (499)		1190 (1830)	446 (665)
23	136 (460)				272 (419)	711 (1280)
24	72 (381)		103 (433)		1020 (3260)	263 (325)
25	95 (423)		888 (2060)		375 (368)	833 (1230)
26	-6 (106)		39 (214)			194 (239)
27	118 (45)		63 (220)		3190 (6160)	63 (22)
28	81 (71)					
29	56 (31)		57 (135)		2240 (4210)	118 (143)
30	74 (35)		2820 (4700)		1390 (2690)	852 (1390)
Avg	234	272	515		805	322
n	15	2	11	0	14	15
SD	294.0	87.7	798.0		920.0	273.0
Min	-6	184	39		11	63
Max	963	360	2820		3190	852

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for May, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	127 (56)					
2	168 (94)		1540 (3950)			379 (828)
3	70 (67)		2680 (4900)		-4 (2)	423 (666)
4	120 (60)		72 (198)		5 (2)	151 (419)
5	111 (46)		3920 (6550)		13 (3)	1090 (1500)
6	149 (62)		80 (295)		22 (3)	523 (842)
7	142 (72)		2160 (5110)		31 (3)	349 (642)
8	57 (103)		2910 (6210)		38 (2)	187 (358)
9	112 (90)		963 (3540)		46 (3)	94 (123)
10	97 (66)		4080 (6790)		54 (3)	330 (621)
11	47 (35)		75 (85)		63 (3)	31 (17)
12	87 (75)		1140 (3430)		71 (3)	174 (269)
13	110 (65)		976 (2720)		80 (4)	118 (197)
14	88 (51)		1880 (4190)		89 (2)	167 (265)
15	63 (40)		2030 (4300)		96 (3)	79 (102)
16	118 (88)		2100 (4050)		106 (3)	305 (499)
17	104 (95)		1830 (3620)		116 (3)	194 (250)
18	57 (56)		95 (227)		124 (2)	39 (17)
19	97 (114)		1770 (3280)		132 (4)	279 (347)
20	99 (73)		1890 (3730)		140 (3)	247 (311)
21	82 (78)		2120 (4340)		148 (3)	205 (281)
22	955 (1890)		971 (2220)		157 (3)	227 (304)
23	273 (942)		463 (835)		165 (2)	190 (237)
24	105 (230)		2470 (5050)		172 (3)	107 (103)
25	141 (361)		194 (291)		183 (5)	54 (19)
26	166 (441)		2420 (4860)		194 (3)	297 (372)
27			2560 (6670)		179 (10)	149 (161)
28	27 (206)		1510 (3190)		148 (6)	79 (71)
29	124 (353)		1480 (3330)		123 (6)	102 (110)
30	128 (402)		2680 (5010)		99 (6)	281 (369)
31	95 (478)		1090 (2200)		73 (8)	152 (208)
Avg	137		1670		99	233
n	30	0	30	0	29	30
SD	158.0		1050.0		56.8	198.0
Min	27		72		-4	31
Max	955		4080		194	1090

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for June, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	165 (430)		71 (173)		44 (8)	81 (39)
2	116 (400)		2340 (5590)		51 (121)	330 (406)
3	131 (362)		1430 (2940)		24 (4)	100 (114)
4	194 (935)				38 (5)	496 (1010)
5	1 (233)				54 (5)	238 (381)
6	77 (334)				69 (4)	197 (245)
7	64 (312)				83 (5)	98 (138)
8	53 (911)				100 (5)	69 (27)
9	60 (292)				114 (4)	142 (86)
10	99 (874)				126 (5)	290 (412)
11	46 (296)				142 (5)	310 (644)
12	91 (908)				157 (6)	349 (572)
13	87 (711)				172 (4)	223 (373)
14	68 (782)				186 (5)	300 (496)
15	118 (790)				201 (5)	76 (49)
16	73 (264)				215 (4)	315 (432)
17	68 (324)				227 (6)	263 (474)
18	173 (929)				243 (5)	275 (436)
19					213 (82)	263 (353)
20						
21						
22						
23						
24						
25						
26						
27						
28	154 (59)	99 (280)	226 (518)		1910 (3860)	187 (291)
29	171 (87)	2 (38)	33 (114)		879 (1500)	55 (26)
30	136 (71)	234 (498)	451 (784)		945 (1840)	229 (332)
Avg	102	112	759		281	222
n	21	3	6	0	22	22
SD	49.1	95.0	851.0		425.0	110.0
Min	1	2	33		24	55
Max	194	234	2340		1910	496

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for July, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	169 (77)	534 (807)	410 (1000)	495 (723)	84 (72)	422 (651)
2	180 (71)	561 (1250)	771 (1670)	492 (1010)	20 (8)	386 (546)
3	146 (66)	465 (909)	603 (1280)	381 (702)	788 (1550)	281 (423)
4	105 (51)	363 (699)	428 (816)	346 (602)	813 (1670)	124 (146)
5	122 (85)	249 (553)	326 (666)	241 (453)	1270 (2460)	77 (38)
6	114 (52)	15 (53)	26 (46)	48 (45)	1540 (2960)	72 (41)
7	120 (63)	477 (907)	552 (1090)	484 (862)	1160 (2270)	326 (419)
8	102 (73)	108 (614)	468 (1670)	114 (263)	121 (49)	520 (1100)
9	126 (101)					
10	130 (100)	205 (2450)	692 (1570)	89 (219)	1850 (3680)	333 (442)
11	115 (67)	220 (691)	553 (1110)	196 (515)	1520 (3040)	207 (220)
12	96 (75)	300 (579)	425 (778)	326 (551)	859 (1410)	269 (314)
13	78 (102)					
14	116 (80)	324 (593)	654 (1250)	403 (698)	486 (850)	390 (575)
15	121 (78)	321 (726)	406 (926)	332 (684)	70 (63)	346 (520)
16	99 (55)	1040 (2380)	659 (1550)	408 (799)	761 (1350)	496 (761)
17	122 (67)	380 (1130)	205 (555)	233 (433)	1120 (2110)	439 (670)
18	176 (515)	200 (367)	154 (296)	225 (339)	1260 (2240)	493 (678)
19	150 (84)	491 (1050)	200 (362)	354 (667)	1440 (2720)	830 (1430)
20	83 (55)	-9 (135)	15 (48)	28 (78)	1390 (2480)	89 (46)
21	90 (112)	298 (585)	269 (591)	289 (499)	1430 (2980)	
22	121 (85)	297 (670)	364 (714)	305 (601)	99 (142)	
23		243 (493)	464 (883)	291 (634)	2190 (3620)	
24		305 (633)	777 (1510)	305 (579)	1220 (2310)	
25		286 (731)	997 (1890)	240 (519)	1700 (3720)	365 (748)
26		365 (828)		356 (657)	1010 (1970)	299 (391)
27		162 (3940)		66 (161)	1620 (2580)	114 (37)
28		673 (2620)	1010 (1970)	565 (1010)	176 (484)	539 (689)
29		347 (744)	564 (1270)	333 (679)	650 (832)	554 (912)
30		653 (1440)	801 (1750)	304 (584)	83 (65)	354 (546)
31		423 (3990)	608 (1350)	301 (612)	963 (1760)	303 (430)
Avg	122	355	496	295	954	345
n	22	29	27	29	29	25
SD	27.3	206.0	255.0	134.0	604.0	174.0
Min	78	-9	15	28	20	72
Max	180	1040	1010	565	2190	830

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for August, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1		261 (805)	594 (1320)	232 (574)	33 (16)	303 (368)
2		103 (208)	159 (237)	109 (310)	548 (939)	200 (150)
3		-2 (120)	60 (133)	43 (465)	646 (1220)	62 (18)
4		183 (1400)	269 (1640)	214 (687)	267 (283)	416 (734)
5						
6		242 (569)	159 (446)		126 (54)	391 (601)
7		278 (688)	251 (584)		560 (1230)	308 (476)
8		252 (489)	241 (479)		637 (1360)	204 (204)
9		63 (142)	93 (133)		1030 (1800)	297 (396)
10		17 (46)	34 (118)		811 (1160)	68 (19)
11		544 (1050)	440 (1180)		1760 (2770)	171 (161)
12		266 (603)	581 (1270)		2020 (3630)	
13		466 (777)	613 (1260)	4430 (8090)	185 (121)	
14		390 (485)		2870 (5330)	2030 (3410)	
15	151 (70)	873 (1240)		6600 (10700)	1350 (2330)	444 (324)
16	160 (114)	556 (979)		4680 (10100)	106 (309)	840 (1210)
17	99 (55)	112 (103)		710 (543)	250 (509)	310 (230)
18	282 (1120)	1830 (9080)		7640 (13800)	948 (2620)	942 (1190)
19	246 (273)	742 (1310)		6330 (15200)	676 (1300)	832 (1350)
20	55 (82)	638 (1510)		4090 (9580)	91 (37)	470 (728)
21	171 (216)	515 (1130)		5040 (11900)	462 (760)	343 (417)
22	71 (76)	268 (806)		4380 (11300)	382 (632)	346 (673)
23	61 (44)	79 (863)	376 (996)	684 (969)	485 (1000)	
24	43 (42)	-8 (52)	-46 (334)	301 (135)	540 (918)	
25	31 (35)	290 (574)	269 (642)	2120 (4110)	788 (1390)	
26	33 (31)	137 (394)	1330 (4490)	886 (1800)	292 (734)	
27	50 (53)	205 (401)	398 (844)	2170 (4100)	911 (978)	
28	53 (36)	267 (555)	372 (682)	1790 (3880)	1050 (2200)	
29	46 (55)	294 (636)	441 (1030)	2340 (4490)	350 (788)	
30	47 (61)	224 (435)	483 (1120)	2070 (3820)	143 (2)	
31	52 (56)	-6 (61)	53 (420)	259 (401)	121 (38)	
Avg	97	336	342	2610	653	386
n	17	30	21	23	30	18
SD	74.7	354.0	292.0	2290.0	539.0	245.0
Min	31	-8	-46	43	33	62
Max	282	1830	1330	7640	2030	942

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for September, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	78 (88)	237 (481)	333 (722)	2560 (4660)	361 (724)	
2	85 (73)	291 (610)	453 (1030)	3590 (7070)	207 (457)	
3	187 (803)	300 (665)	1180 (4420)	3560 (7050)	475 (810)	
4	76 (51)	272 (616)	1870 (5330)	3390 (6660)	138 (68)	
5	213 (108)	171 (293)	497 (1020)	2680 (4850)	422 (646)	
6	207 (77)	174 (279)	504 (1120)	1080 (1690)	334 (621)	199 (207)
7	175 (68)	43 (47)	98 (78)	412 (703)	216 (326)	86 (49)
8	186 (150)					
9	129 (53)					
10	99 (68)					
11	153 (60)	103 (1850)	430 (747)	1300 (2130)	89 (69)	143 (231)
12	155 (68)	79 (322)	489 (916)	2330 (4030)	629 (1200)	255 (364)
13	124 (57)	20 (97)	335 (1220)	1500 (3360)	205 (333)	170 (229)
14	126 (51)	-5 (34)	47 (136)	185 (478)	439 (767)	128 (549)
15	230 (109)	48 (82)	490 (1680)	1800 (2900)	195 (329)	126 (162)
16	210 (108)	26 (78)	172 (246)	1050 (2740)	189 (213)	120 (151)
17	267 (219)	57 (219)	276 (523)	937 (1770)	281 (494)	158 (191)
18	147 (71)					
19	235 (169)	110 (306)	351 (630)	1700 (3190)	317 (553)	148 (191)
20	395 (211)	192 (1690)	526 (2230)	3720 (6620)	239 (538)	283 (299)
21	282 (220)	60 (56)	100 (208)	631 (1160)	283 (460)	110 (27)
22	179 (82)	60 (108)	332 (618)	820 (1470)	413 (668)	124 (142)
23	249 (109)	557 (3860)	190 (507)	3490 (7730)	424 (810)	139 (191)
24	331 (164)	491 (1610)	177 (297)	4090 (8450)	415 (913)	977 (2340)
25	301 (119)	614 (2710)	1040 (3280)	3770 (7680)	77 (84)	357 (467)
26	229 (77)	120 (201)	390 (1470)	3320 (6000)	444 (927)	230 (298)
27	269 (99)	145 (1020)	1350 (4010)	2770 (5490)	534 (1050)	-11 (35)
28	337 (180)	46 (62)	17 (140)	651 (502)	267 (639)	-27 (14)
29	304 (162)	94 (174)	528 (1720)	5710 (10300)	141 (149)	-73 (32)
30	330 (181)	64 (124)	963 (2420)	4190 (9590)	103 (96)	-78 (11)
Avg	210	168	505	2350	301	170
n	30	26	26	26	26	21
SD	83.6	163.0	430.0	1420.0	143.0	210.0
Min	76	-5	17	185	77	-78
Max	395	614	1870	5710	629	977

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for October, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	274 (137)	65 (116)	220 (988)		283 (514)	-35 (28)
2	244 (195)	53 (150)	701 (2140)		76 (151)	-9 (15)
3	207 (152)					
4						
5	329 (198)					
6	265 (626)					
7	325 (290)					
8	583 (459)					
9	307 (195)					
10	111 (99)	702 (3390)	308 (1200)		33 (56)	209 (322)
11	196 (155)	90 (203)	7 (134)		150 (151)	
12	190 (148)	-15 (139)	-29 (128)		210 (292)	
13	332 (294)	184 (471)	117 (221)		205 (277)	
14	245 (225)	424 (1710)	536 (501)		110 (150)	
15	237 (232)	121 (308)	465 (454)		112 (126)	309 (478)
16	216 (204)	112 (184)			56 (29)	268 (544)
17	121 (204)	209 (329)			30 (12)	257 (700)
18	124 (185)	81 (119)			263 (399)	-24 (17)
19	205 (242)	35 (80)			92 (58)	-21 (14)
20	230 (225)	390 (950)			29 (21)	-68 (18)
21	97 (184)	199 (288)			410 (1120)	-61 (10)
22	81 (88)	161 (258)			155 (125)	9 (85)
23	89 (74)	85 (691)			235 (132)	
24	201 (125)	281 (758)	648 (409)		262 (158)	
25	104 (70)	126 (134)	699 (306)		281 (202)	
26	54 (33)	73 (129)	603 (313)		189 (279)	
27	48 (38)	143 (145)	863 (727)		170 (121)	
28	49 (36)	172 (426)	710 (479)		386 (375)	
29	80 (43)	111 (127)	637 (275)		865 (754)	
30	126 (91)	116 (266)	828 (259)		489 (153)	
31	170 (79)	100 (109)	880 (781)		594 (807)	
Avg	195	167	512		237	76
n	30	24	16	0	24	11
SD	112.0	150.0	290.0		194.0	143.0
Min	48	-15	-29		29	-68
Max	583	702	880		865	309

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for November, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	134 (86)	225 (404)	484 (240)	1530 (1570)	547 (165)	
2	91 (74)	99 (81)	737 (389)	1320 (1110)	630 (233)	
3	216 (304)	214 (250)	643 (407)	6680 (8930)	614 (294)	
4	173 (158)	166 (187)	628 (384)	3470 (5620)	691 (543)	
5	203 (568)	359 (4440)	719 (633)	4580 (8560)	552 (226)	
6	234 (112)	199 (232)		4880 (9050)	832 (827)	
7	113 (113)	320 (386)	888 (697)	6780 (11200)	545 (167)	
8	26 (27)	294 (395)	725 (292)	2700 (4900)	586 (201)	
9	20 (18)	137 (79)	699 (231)	592 (627)	954 (1310)	
10	52 (51)	341 (452)	976 (896)	2520 (6470)	913 (669)	
11	65 (41)	205 (327)	1110 (853)	1200 (1310)	915 (735)	
12	71 (56)	190 (256)	1110 (2450)	1960 (3720)	764 (279)	
13		233 (365)	812 (279)	3330 (5420)	1260 (860)	
14	60 (68)	221 (267)	1420 (894)	3390 (5310)	894 (257)	
15	15 (41)	215 (272)	1180 (410)	1950 (3110)	811 (249)	
16	17 (28)	129 (123)	978 (504)	917 (1440)	982 (284)	
17	18 (33)	214 (238)	1140 (451)	2550 (3330)	1250 (604)	
18	23 (46)	134 (172)	1490 (896)	1620 (2000)	1030 (317)	
19	47 (43)					
20	11 (32)	136 (142)	1180 (707)	1870 (2630)	2060 (2720)	
21	9 (28)	189 (158)	1860 (928)	2020 (2200)	1570 (1160)	
22	36 (57)	142 (108)	2000 (1280)	1420 (1260)	841 (219)	
23	45 (66)	115 (76)	1000 (297)	890 (455)	2100 (2320)	
24	31 (44)	275 (374)	2950 (4500)	2560 (3380)	1850 (1970)	
25	11 (18)	149 (176)	1850 (1590)	1740 (2620)	2400 (2210)	
26	49 (27)	180 (155)	2870 (2360)	1990 (2240)	2320 (2450)	
27	49 (23)	139 (225)	2520 (2220)	1690 (2190)	2490 (2360)	
28	30 (18)	146 (216)	2650 (2200)	1450 (1570)	2210 (2130)	
29	57 (31)	118 (112)	2030 (1650)	1280 (1450)	1300 (571)	
30	33 (17)	101 (114)	1660 (853)	828 (662)	3030 (3820)	
Avg	67	193	1370	2400	1270	
n	29	29	28	29	29	0
SD	63.5	69.7	705.0	1560.0	701.0	
Min	9	99	484	592	545	
Max	234	359	2950	6780	3030	

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for December, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	13 (8)	240 (337)	2350 (2560)		1740 (2010)	
2		150 (333)	1050 (1230)		2280 (2250)	
3	44 (27)				2430 (2730)	
4	11 (18)	365 (487)	2010 (1410)		1510 (1080)	103 (185)
5	19 (11)	208 (291)	2680 (2610)		2260 (2180)	44 (127)
6	19 (15)	116 (241)	2560 (2480)		2400 (2690)	141 (168)
7	24 (19)	111 (176)	1690 (597)		1370 (432)	74 (31)
8	48 (25)					
9	57 (31)					
10	34 (18)					
11	28 (18)	87 (158)	1400 (1010)		1790 (1170)	138 (137)
12						
13						
14						
15						
16						
17						
18						
19		227 (974)	1600 (2370)	346 (547)	1260 (7)	55 (33)
20		108 (152)	1830 (1660)	154 (257)	1980 (1790)	52 (54)
21		62 (130)	852 (586)	11 (117)	895 (434)	58 (12)
22		116 (148)	1620 (1180)	149 (259)	238 (2)	76 (62)
23		106 (147)	1410 (858)	99 (102)	231 (2)	43 (31)
24		123 (79)	1430 (830)	128 (104)	223 (2)	
25	-26 (443)	130 (83)	1370 (712)	112 (85)	216 (2)	
26	80 (451)	127 (103)	1240 (750)	125 (138)	209 (2)	
27	1870 (1710)	130 (160)	1070 (920)	103 (143)	201 (2)	
28	-206 (744)	127 (103)	924 (602)	73 (76)	194 (2)	
29	19 (522)	188 (266)	1310 (1400)	230 (415)	186 (2)	
30	184 (548)	95 (107)	850 (800)		179 (2)	
31	25 (13)	165 (105)	933 (731)		171 (2)	
Avg	132	149	1510	139	1050	78
n	17	20	20	11	21	10
SD	440.0	67.2	533.0	83.4	876.0	34.9
Min	-206	62	850	11	171	43
Max	1870	365	2680	346	2430	141

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for January, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1		126 (84)	972 (651)		164 (2)	
2		170 (217)	1030 (636)		157 (2)	
3		125 (94)	922 (550)		149 (2)	
4		107 (78)	770 (412)		142 (2)	
5		216 (342)	1170 (1780)		134 (2)	
6		248 (381)	937 (809)		127 (2)	
7		94 (362)	757 (524)		120 (2)	
8		201 (2570)	813 (614)		112 (2)	
9	30 (12)	80 (95)	689 (434)		105 (2)	
10	31 (19)	52 (298)	651 (426)		98 (2)	
11	27 (14)	83 (73)	560 (367)		90 (2)	
12	44 (25)	92 (88)	612 (605)		83 (2)	
13	10 (8)	127 (180)	515 (398)		75 (2)	
14	19 (13)	201 (228)	629 (423)		68 (2)	
15	12 (4)	405 (367)	727 (1130)	154 (256)	60 (2)	
16		587 (4860)	605 (453)		53 (2)	
17		346 (291)	449 (273)		46 (2)	
18		523 (1100)	463 (397)		38 (2)	
19		367 (266)	417 (285)	447 (450)	31 (2)	
20		375 (284)	404 (254)	721 (951)	24 (2)	
21		260 (217)	382 (233)	614 (689)	16 (2)	
22		444 (1320)	305 (350)	529 (776)	9 (2)	
23		180 (489)	355 (254)	495 (572)	49 (142)	
24	14 (9)	272 (294)	344 (224)	270 (234)	356 (272)	
25	24 (7)	276 (333)	250 (179)	499 (854)	253 (140)	
26	39 (22)	271 (249)	276 (191)	747 (780)	337 (232)	
27	30 (13)	251 (200)	341 (253)	734 (1810)	386 (304)	
28	30 (20)	209 (177)	332 (220)	1690 (7080)	319 (201)	
29	21 (10)	242 (288)	244 (202)	641 (682)	245 (161)	
30	15 (5)		407 (309)	426 (302)	347 (253)	
31			276 (174)	412 (253)	258 (147)	
Avg	25	239	568	598	144	
n	14	29	31	14	31	0
SD	9.8	133.0	253.0	344.0	110.0	
Min	10	52	244	154	9	
Max	44	587	1170	1690	386	

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for February, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1			242 (151)	405 (281)	252 (131)	
2			298 (289)	465 (391)	343 (286)	
3						
4			242 (238)	391 (244)	234 (166)	
5			251 (389)	416 (273)	174 (112)	
6						
7						
8						
9						
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20						
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23						
24						
25						
26						
27						
28						
Avg			258	419	251	
n	0	0	4	4	4	0
SD			23.3	28.1	60.5	
Min			242	391	174	
Max			298	465	343	

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for March, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7		2120 (716)	586 (905)		719 (1210)	275 (400)
8		2450 (965)	118 (99)		83 (60)	42 (54)
9		2740 (1300)	522 (883)		895 (1540)	233 (370)
10		1160 (870)	363 (711)		472 (794)	95 (81)
11		776 (1020)	230 (396)		191 (256)	127 (119)
12		680 (843)	155 (188)		203 (191)	65 (43)
13		2140 (2200)	220 (191)		192 (151)	44 (42)
14		2250 (1090)	159 (245)	1450 (929)	227 (226)	51 (46)
15		1090 (1500)	98 (74)	710 (1220)	141 (65)	26 (13)
16		1670 (2010)	595 (1070)	1170 (1300)	805 (1370)	107 (99)
17		1050 (807)	398 (714)	1060 (704)	736 (1400)	214 (203)
18		805 (1060)	691 (1080)	1620 (4200)	1080 (1990)	347 (409)
19		1890 (1820)	721 (1200)	1250 (1570)	8650 (24400)	263 (302)
20		1830 (1130)	486 (943)	1620 (2610)	787 (1700)	83 (98)
21		1200 (661)	458 (977)	903 (793)	763 (1260)	144 (132)
22		953 (607)	132 (84)	638 (348)	119 (54)	75 (39)
23		929 (544)	955 (1800)	1110 (928)	1360 (2710)	147 (146)
24		765 (622)	1050 (3360)	1560 (6370)	903 (2020)	119 (139)
25		1670 (1030)	736 (1530)	1110 (1070)	758 (1310)	248 (321)
26		1170 (730)	563 (1010)	922 (870)	892 (1540)	314 (445)
27		1110 (569)	391 (733)	869 (817)	702 (1290)	338 (788)
28		1050 (461)	313 (562)	825 (727)	534 (977)	102 (138)
29		878 (442)	58 (70)	514 (377)	74 (41)	37 (17)
30		771 (559)	523 (995)	1140 (1940)	732 (1370)	165 (212)
31		772 (661)	379 (772)	759 (658)	578 (1170)	57 (80)
Avg		1360	436	1070	904	149
n	0	25	25	18	25	25
SD		597.0	259.0	325.0	1620.0	99.1
Min		680	58	514	74	26
Max		2740	1050	1620	8650	347

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for April, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1		1030 (543)	419 (858)	851 (927)	409 (671)	143 (186)
2		941 (665)	744 (1620)	816 (911)	566 (953)	142 (269)
3		908 (533)	750 (1900)	721 (889)	1530 (4580)	94 (125)
4		845 (888)	553 (1110)	663 (895)	739 (1410)	105 (113)
5			65 (73)	250 (856)	79 (43)	27 (23)
6		727 (974)	832 (1750)	749 (2080)	780 (1730)	124 (180)
7		571 (428)	368 (958)	359 (613)	570 (1540)	94 (86)
8			325 (894)		437 (784)	112 (132)
9						
10						
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16						
17	248 (970)					
18	156 (99)		1400 (2990)	738 (1030)	328 (5)	377 (578)
19	77 (82)		70 (62)	350 (247)	311 (5)	37 (24)
20	28 (28)		2530 (6750)	929 (1370)	294 (5)	215 (305)
21	14 (11)		1010 (2870)	488 (576)	276 (5)	161 (234)
22	40 (30)		593 (1310)	827 (1370)	259 (5)	150 (197)
23	47 (69)	504 (466)	653 (1160)	622 (881)	242 (5)	127 (186)
24	98 (80)	508 (574)	1280 (2710)	795 (1250)	226 (5)	324 (383)
25	93 (39)	220 (151)	74 (74)	191 (125)	209 (5)	102 (55)
26	110 (67)	187 (133)	61 (83)	170 (114)	192 (5)	86 (47)
27	110 (55)	475 (687)	1440 (3140)	912 (1520)	175 (5)	262 (315)
28	136 (671)	385 (410)	1000 (2510)	624 (1170)	158 (5)	170 (326)
29	21 (13)	676 (1580)	740 (1830)	212 (437)	140 (5)	105 (256)
30		276 (303)	300 (925)	195 (334)	124 (4)	111 (177)
Avg	91	590	725	573	383	146
n	13	14	21	20	21	21
SD	62.8	264.0	580.0	262.0	318.0	83.7
Min	14	187	61	170	79	27
Max	248	1030	2530	929	1530	377

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for May, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1		722 (3200)	1170 (8610)	594 (1010)	107 (5)	312 (549)
2		859 (1810)	447 (1140)	352 (703)	90 (5)	200 (248)
3		256 (156)	15 (276)	192 (241)	73 (5)	93 (169)
4		468 (723)	998 (2170)	441 (670)	56 (5)	86 (83)
5		448 (3400)	1320 (3020)	358 (774)	39 (5)	94 (94)
6		467 (3410)	1710 (3960)	411 (915)	22 (5)	140 (197)
7		394 (2110)	783 (2140)	483 (808)	6 (4)	290 (398)
8		414 (361)	420 (950)	658 (1150)	96 (354)	157 (225)
9		360 (253)	875 (2370)	361 (568)	32 (28)	
10		256 (151)	19 (73)	143 (139)	864 (1670)	
11		353 (269)	766 (1720)	447 (738)	230 (528)	
12		333 (269)	762 (1730)	327 (585)	625 (1520)	782 (945)
13		379 (1430)	1490 (4020)	295 (403)	991 (2070)	484 (1020)
14		451 (1020)	757 (1750)	623 (1450)	1180 (2400)	377 (549)
15		2490 (17200)	1350 (3890)	409 (697)	504 (1080)	218 (316)
16		276 (321)	684 (2090)	290 (516)	18 (34)	206 (339)
17		725 (6310)	30 (125)	98 (370)	525 (1030)	75 (18)
18		439 (2970)	1560 (3600)	326 (695)	679 (1260)	328 (578)
19		533 (4300)	1600 (3740)	671 (1300)	821 (1620)	338 (601)
20		553 (4280)	2260 (5890)	717 (1510)	35 (9)	
21		2410 (4590)	2070 (5680)		1740 (3560)	
22		1080 (3390)	2250 (6900)		1080 (1950)	751 (1330)
23		409 (400)	1470 (4190)		79 (45)	
24		181 (176)	43 (79)		325 (618)	
25		381 (370)	1840 (4690)		438 (875)	
26		408 (506)	1420 (3350)		762 (1510)	
27		251 (286)	1040 (2870)		2820 (1920)	
28		317 (255)	2120 (4330)		1610 (619)	
29		699 (4710)			909 (1560)	468 (758)
30		354 (285)		615 (1080)	45 (25)	465 (816)
31		250 (167)		148 (124)	522 (1210)	82 (69)
Avg		578	1120	407	559	297
n	0	31	28	22	31	20
SD		528.0	674.0	177.0	630.0	204.0
Min		181	15	98	6	75
Max		2490	2260	717	2820	782

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for June, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1		327 (399)		478 (867)	850 (1950)	524 (679)
2		235 (244)		441 (864)	404 (1260)	91 (139)
3		231 (198)		213 (336)	158 (208)	118 (192)
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25						
26						
27		73 (83)	160 (374)	254 (509)	34 (14)	165 (162)
28		28 (46)	21 (29)	53 (63)	765 (1400)	85 (37)
29		119 (119)	356 (704)	555 (973)	1970 (3440)	543 (967)
30		911 (2920)	1040 (1920)	706 (1340)	1540 (3360)	253 (382)
Avg		275	394	386	818	254
n	0	7	4	7	7	7
SD		277.0	391.0	207.0	663.0	184.0
Min		28	21	53	34	85
Max		911	1040	706	1970	543

ED_001509B_00005068-00152

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for July, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1		200 (169)	686 (1550)	563 (1090)	1110 (2760)	298 (606)
2		249 (194)	779 (1910)	742 (1440)	1450 (3410)	200 (356)
3		287 (257)	699 (1700)	685 (1390)	472 (1140)	287 (614)
4		256 (216)	426 (1120)	397 (799)	52 (62)	264 (588)
5		170 (337)	26 (50)	132 (202)	2340 (4080)	39 (21)
6		257 (288)	981 (1810)	1170 (2020)	1730 (3110)	607 (965)
7		321 (300)	993 (1760)	1030 (1660)	500 (1040)	261 (354)
8		455 (494)	579 (1320)	776 (1470)	675 (1850)	348 (738)
9		242 (253)	341 (871)	465 (913)	711 (1760)	133 (211)
10		412 (1290)	440 (1030)	901 (2460)	596 (1610)	235 (372)
11		143 (175)	223 (585)	526 (1110)	30 (22)	242 (370)
12		156 (111)	32 (36)	146 (156)	33 (44)	58 (17)
13		301 (358)	36 (48)	720 (1330)	2480 (8020)	530 (975)
14		262 (271)	900 (5180)	363 (728)	260 (499)	181 (325)
15		164 (157)	630 (1790)	311 (1240)	262 (486)	345 (554)
16		217 (247)	322 (918)	673 (1360)	894 (2230)	413 (702)
17		261 (274)	501 (1250)	641 (1240)	441 (1130)	276 (409)
18		448 (895)	380 (949)	242 (551)	32 (84)	292 (488)
19		160 (136)	51 (60)	104 (204)	388 (931)	50 (34)
20		312 (594)	253 (540)	442 (900)	455 (696)	187 (225)
21		231 (248)	516 (1120)	346 (606)	232 (397)	166 (178)
22		191 (203)	690 (1270)	246 (507)	1680 (4950)	115 (132)
23		246 (195)	550 (1350)	430 (693)	626 (1390)	190 (186)
24		251 (167)	304 (632)	316 (474)	597 (1320)	303 (355)
25		251 (246)	183 (356)	488 (869)	42 (26)	170 (230)
26		160 (86)	39 (26)	143 (88)	1170 (2400)	69 (43)
27		235 (222)	331 (637)	738 (1120)	1060 (2040)	363 (461)
28		206 (176)	427 (884)	532 (773)	711 (1780)	345 (438)
29		255 (187)	421 (933)	247 (515)	177 (468)	415 (713)
30		333 (240)	635 (1430)	197 (530)	1020 (2200)	225 (401)
31		280 (233)	360 (727)	496 (837)	430 (992)	334 (524)
Avg		255	443	491	731	256
n	0	31	31	31	31	31
SD		77.8	270.0	265.0	637.0	131.0
Min		143	26	104	30	39
Max		455	993	1170	2480	607

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for August, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	211 (115)	240 (203)	364 (857)	487 (857)	18 (51)	235 (350)
2	221 (131)	178 (118)	47 (49)	168 (135)	747 (1610)	86 (55)
3	237 (157)	245 (267)	857 (1830)	709 (1300)	1010 (2070)	257 (344)
4	324 (363)	245 (279)	746 (1620)	615 (980)	883 (2190)	290 (364)
5	379 (270)	215 (187)	810 (2090)	349 (623)	956 (2260)	256 (172)
6	249 (129)	300 (234)	955 (2190)	373 (771)	92 (60)	175 (152)
7	107 (103)	446 (404)	935 (1950)	208 (680)	105 (5)	300 (834)
8	127 (87)	103 (86)	43 (31)	78 (61)	87 (5)	70 (43)
9	112 (72)	70 (63)	27 (22)	62 (51)	68 (5)	93 (32)
10	110 (101)	964 (2560)	304 (625)	388 (768)	49 (5)	381 (485)
11	133 (102)	138 (146)	286 (638)	473 (785)	411 (877)	258 (313)
12	159 (96)	145 (139)	205 (427)	330 (509)	810 (1870)	147 (136)
13	227 (215)	225 (600)	513 (1070)	368 (537)	964 (2290)	187 (373)
14	323 (215)	551 (1250)	1070 (2650)	562 (858)	1780 (4050)	934 (1380)
15						
16						
17						
18						
19						
20						
21	158 (89)	276 (254)	239 (440)	396 (683)	373 (823)	255 (543)
22	216 (122)	276 (226)	238 (407)	347 (645)	46 (20)	121 (122)
23	193 (127)	397 (4450)	66 (64)	99 (126)	213 (642)	77 (33)
24	167 (137)	216 (246)	120 (290)	245 (446)	61 (24)	185 (192)
25	160 (116)	263 (264)	59 (54)	255 (429)	152 (305)	453 (1110)
26	145 (108)	177 (200)	111 (274)	223 (456)	340 (703)	177 (190)
27	61 (66)			79 (241)	357 (956)	112 (149)
28	110 (90)	388 (1050)		26 (80)	251 (403)	95 (140)
29	127 (112)	606 (4360)		111 (221)	57 (28)	95 (104)
30	155 (141)	7 (77)		17 (49)	231 (338)	70 (43)
31	134 (160)	349 (705)		155 (451)	423 (1190)	126 (148)
Avg	182	293	400	285	419	217
n	25	24	20	25	25	25
SD	75.5	197.0	350.0	187.0	428.0	176.0
Min	61	7	27	17	18	70
Max	379	964	1070	709	1780	934

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for September, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	92 (92)	401 (808)		150 (293)	143 (287)	156 (334)
2	100 (119)	224 (181)		173 (267)	206 (874)	75 (105)
3		205 (194)		211 (357)	764 (1610)	112 (126)
4		420 (714)	553 (1140)	406 (802)	318 (589)	
5		270 (229)	208 (480)	328 (490)	57 (24)	
6		204 (236)	57 (32)	154 (132)	806 (1570)	
7		193 (167)	283 (523)	470 (748)	419 (888)	
8		133 (146)	170 (341)	258 (582)	267 (552)	
9		123 (93)	153 (287)	232 (339)	292 (590)	
10		207 (212)	193 (330)	242 (398)	206 (313)	
11	221 (152)	274 (226)	316 (529)	283 (458)	345 (753)	117 (194)
12	200 (146)	479 (1030)	326 (657)	206 (329)	46 (38)	154 (259)
13	216 (146)	166 (134)	90 (52)	101 (133)	1080 (1880)	59 (54)
14	236 (131)	234 (224)	735 (1300)	503 (721)	538 (1080)	254 (293)
15	222 (127)	177 (146)	336 (652)	322 (507)	615 (1470)	416 (804)
16	64 (58)	176 (226)	445 (992)	191 (412)	450 (986)	62 (74)
17	99 (94)	251 (198)	443 (885)	210 (350)	80 (1)	107 (183)
18	223 (167)					
19	110 (82)	260 (238)	458 (1010)	264 (432)	86 (1)	102 (160)
20	93 (53)	175 (99)	79 (40)	93 (94)	89 (1)	40 (85)
21		137 (142)	390 (776)	355 (612)	93 (1)	463 (939)
22	102 (52)	99 (174)	197 (396)	148 (278)	96 (1)	367 (523)
23	196 (127)	123 (152)	171 (328)	168 (207)	98 (1)	
24	104 (60)	235 (183)	339 (449)	345 (413)	101 (1)	
25	81 (52)	348 (344)	348 (561)	713 (1650)	104 (1)	512 (921)
26	205 (113)	218 (191)	240 (397)	275 (340)	107 (1)	264 (312)
27	176 (105)	271 (440)	84 (51)	176 (203)	110 (1)	84 (53)
28	41 (47)	354 (350)	672 (1190)	173 (392)	112 (1)	913 (1360)
29	44 (43)	326 (265)	370 (754)	129 (283)	83 (62)	167 (254)
30	98 (87)	247 (160)	312 (631)	199 (291)	176 (345)	308 (653)
Avg	139	239	307	258	272	237
n	21	29	26	29	29	20
SD	65.1	91.9	172.0	133.0	258.0	209.0
Min	41	99	57	93	46	40
Max	236	479	735	713	1080	913

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for October, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	123 (136)	369 (307)	528 (1080)	596 (1020)	1170 (1000)	
2	89 (123)	1410 (7660)	430 (807)	231 (331)	1310 (16)	613 (1100)
3	58 (65)	414 (469)	450 (919)	216 (515)	1250 (16)	262 (563)
4	67 (81)	251 (242)	88 (49)	61 (97)	1200 (16)	40 (53)
5	134 (127)	295 (334)	659 (1290)	353 (584)	1140 (13)	877 (1460)
6	69 (93)	242 (410)	338 (701)	207 (311)	1090 (14)	130 (252)
7	67 (104)	265 (456)	404 (832)	379 (769)	1040 (15)	314 (733)
8	88 (100)	224 (333)	456 (1020)	237 (418)	983 (16)	311 (752)
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10						
11						
12						
13						
14						
15						
16						
17	119 (75)	335 (312)	346 (585)	290 (528)	493 (14)	409 (628)
18	137 (109)	353 (1160)	109 (292)	160 (114)	440 (16)	24 (32)
19	185 (123)	204 (298)	574 (1030)	227 (281)	386 (16)	176 (300)
20	225 (134)	231 (382)	612 (1530)	330 (497)	331 (16)	351 (607)
21	249 (164)	222 (418)	436 (771)	273 (446)	276 (16)	484 (860)
22	179 (129)	289 (371)	805 (1560)	357 (593)	221 (16)	348 (803)
23	44 (75)	226 (428)	552 (1250)	333 (872)	167 (16)	156 (368)
24	40 (73)	370 (542)	652 (1330)	438 (1230)	112 (16)	288 (708)
25	111 (119)	141 (248)	98 (60)	152 (328)	58 (16)	85 (383)
26	155 (127)					
27	67 (55)					
28	125 (139)	226 (140)	509 (931)	231 (281)	2 (0)	190 (425)
29	67 (55)	189 (123)	544 (1160)	263 (338)	3 (0)	209 (421)
30	95 (121)	140 (123)	317 (634)	225 (389)	4 (0)	126 (396)
31	26 (60)	198 (152)	634 (1340)	208 (358)	5 (0)	220 (528)
Avg	109	314	454	275	556	281
n	23	21	21	21	21	20
SD	57.5	255.0	186.0	111.0	487.0	198.0
Min	26	140	88	61	2	24
Max	249	1410	805	596	1310	877

Table F4. Daily means (SD) of PM10 concentrations at site IN2B for November, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1	100 (148)	140 (94)	118 (59)	73 (102)	6 (0)	16 (15)
2	118 (121)	199 (196)	1080 (2130)	385 (646)	7 (0)	428 (897)
3	59 (120)	160 (143)	632 (1230)	154 (273)	8 (0)	136 (264)
4	91 (119)	123 (93)	530 (1170)	131 (208)	9 (0)	116 (272)
5	49 (79)	130 (108)	774 (1830)	193 (363)	10 (0)	163 (302)
6	55 (56)	125 (197)		154 (345)	11 (0)	150 (329)
7	123 (79)	248 (529)		129 (286)	12 (0)	115 (207)
8	127 (70)	93 (179)		58 (90)	13 (0)	36 (44)
9	128 (66)	286 (501)		182 (229)	15 (0)	242 (337)
10	26 (22)	363 (3090)		301 (460)	16 (0)	102 (177)
11	24 (20)	238 (574)		268 (476)	17 (0)	655 (1190)
12		353 (761)		399 (670)	18 (0)	176 (377)
13		216 (292)	1490 (3530)	222 (354)	19 (0)	767 (1400)
14			1620 (3840)	374 (601)	20 (0)	
15			145 (120)	73 (67)	21 (0)	
16	-74 (124)		3020 (6700)	336 (638)	22 (0)	
17	-28 (130)		1180 (2740)	123 (214)	23 (0)	
18	41 (85)		537 (1210)	135 (186)	24 (0)	
19	83 (121)		1040 (2150)	195 (264)	25 (0)	259 (575)
20	44 (139)	194 (111)	1180 (2610)	185 (192)	26 (0)	166 (277)
21	70 (117)	202 (131)	1060 (2200)	218 (322)	27 (0)	407 (777)
22	33 (77)	177 (106)	170 (130)	118 (78)	28 (0)	365 (959)
23	35 (40)	245 (186)	1870 (3540)	353 (568)	823 (1530)	660 (1150)
24	34 (42)	244 (195)	1110 (2020)	210 (236)	1010 (2100)	398 (819)
25	30 (43)	227 (165)	1110 (2230)	185 (216)	1290 (2940)	260 (709)
26	6 (30)	221 (147)	1710 (3890)	203 (290)	979 (2000)	177 (346)
27	23 (48)	233 (145)	1510 (3190)	180 (173)	863 (1730)	189 (380)
28	86 (76)	183 (126)	1350 (2840)	155 (166)	163 (122)	245 (568)
29	46 (42)	168 (138)	320 (326)	104 (101)	1280 (2230)	45 (48)
30	14 (40)	197 (164)	1790 (3060)	303 (527)	1110 (1690)	274 (520)
Avg	52	207	1100	203	263	262
n	26	24	23	30	30	25
SD	46.7	65.0	663.0	94.5	443.0	194.0
Min	-74	93	118	58	6	16
Max	128	363	3020	399	1290	767

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Table F4. Daily means (SD) of PM10 concentrations at site IN2B for December, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	48 (128)	171 (150)	1980 (3150)	167 (218)	1240 (2400)	173 (297)
2	52 (103)	229 (131)	2140 (4080)	161 (147)	1380 (2460)	203 (352)
3	33 (11)	186 (123)	2430 (4610)	165 (210)	797 (1600)	215 (395)
4	33 (20)	100 (417)	1670 (3800)	62 (191)	256 (132)	103 (160)
5	42 (25)	72 (419)	435 (250)	42 (236)	228 (106)	60 (95)
6	66 (34)	-12 (104)	363 (199)	-13 (26)	1290 (2640)	22 (17)
7		104 (166)	2130 (4010)	79 (99)	225 (151)	184 (276)
8		79 (100)	379 (444)	148 (652)	233 (301)	46 (58)
9		77 (142)	419 (1340)	69 (133)	618 (1090)	23 (39)
10	33 (11)	95 (150)	1730 (3760)	52 (95)	496 (848)	73 (100)
11	45 (26)	98 (91)	868 (3260)	66 (70)	255 (103)	57 (136)
12	51 (26)	54 (66)	289 (189)	44 (57)	242 (125)	18 (26)
13	41 (28)	48 (54)	350 (276)	29 (39)	410 (436)	-6 (8)
14	39 (33)	62 (78)	532 (624)	91 (157)	443 (746)	76 (141)
15	16 (5)	60 (65)	524 (1210)	61 (101)	286 (130)	34 (42)
16	29 (16)	43 (51)	342 (199)	29 (44)	411 (414)	27 (17)
17	38 (17)	43 (245)	699 (1160)	20 (114)	477 (464)	29 (46)
18		67 (219)	635 (615)	43 (115)	370 (107)	173 (429)
19		56 (290)	639 (211)	26 (135)	346 (101)	44 (88)
20		64 (175)	507 (170)	34 (89)	540 (479)	33 (105)
21		70 (105)	905 (1170)	48 (60)	421 (129)	126 (212)
22		66 (54)	661 (197)	68 (55)	393 (181)	31 (27)
23			570 (245)	55 (72)	622 (517)	6 (71)
24			1100 (1280)	66 (72)	479 (166)	79 (149)
25			762 (348)	67 (96)	529 (360)	-4 (12)
26			586 (359)	71 (96)	546 (143)	9 (27)
27			592 (157)	35 (45)	695 (574)	14 (12)
28			1170 (2390)	78 (90)	626 (289)	65 (121)
29			663 (442)	57 (61)		36 (64)
30			587 (222)	54 (67)		503 (930)
31		93 (107)	1060 (1040)	96 (269)		466 (934)
Avg	40	84	895	67	531	94
n	14	23	31	31	28	31
SD	11.6	50.2	599.0	42.1	306.0	120.0
Min	16	-12	289	-13	225	-6
Max	66	229	2430	167	1380	503

Table F5. PM 10 emissions.

Table F5. Daily means (SD) of PM10 emissions at site IN2B for January, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5					5290 (3240)	1940 (1180)	20.60 (12.60)	8.37 (5.12)				
6					7630 (5660)	2790 (2070)	29.70 (22.10)	12.00 (8.87)				
7					9690 (9880)	3540 (3610)	37.80 (38.50)	15.10 (15.40)				
8					6350 (4350)	2320 (1590)	24.80 (17.00)	9.80 (6.71)				
9					2120 (2370)	776 (868)	8.28 (9.26)	3.25 (3.63)				
10					1320 (2570)	484 (941)	5.17 (10.00)	2.01 (3.91)				
11					6000 (7000)	2190 (2560)	23.40 (27.30)	9.03 (10.50)				
12	14100 (7210)	5170 (2640)	53.80 (27.50)	19.400 (9.920)	9910 (13300)	3630 (4860)	38.70 (51.90)	14.90 (19.90)				
13	16200 (15000)	5920 (5470)	61.60 (57.00)	22.200 (20.500)								
14												
15												
16												
17	14600 (9150)	5350 (3350)	55.70 (34.90)	19.800 (12.400)	6620 (4870)	2420 (1780)	25.90 (19.00)	9.74 (7.16)				
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29					17500 (11600)	6410 (4230)	68.70 (45.40)	23.90 (15.80)				
30												
31												
Avg	15000	5480	57.10	20.500	7250	2650	28.3	(10.80)				
n	3	3	3	3	10	10	10	10	0	0	0	0
SD	871.0	319.0	3.32	1.220	4320.0	1580.0	16.9	(5.94)				
Min	14100	5170	53.80	19.400	1320	484	5.2	(2.01)				
Max	16200	5920	61.60	22.200	17500	6410	68.7	(23.90)				

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for February, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9	1890 (1690)	691 (616)	7.20 (6.43)	2.480 (2.210)	2710 (2520)	990 (922)	10.60 (9.89)	3.56 (3.32)				
10												
11												
12												
13												
14												
15												
16												
17	3580 (4940)	1310 (1810)	13.60 (18.80)	4.670 (6.450)								
18												
19												
20												
21												
22												
23												
24												
25	1530 (1650)	559 (602)	5.83 (6.28)	1.980 (2.140)								
26	1280 (875)	467 (320)	4.88 (3.34)	1.660 (1.140)								
27												
28												
29												
Avg	2070	756	7.89	2.700								
n	4	4	4	4	1	1	1	1	0	0	0	0
SD	897.0	328.0	3.42	1.170								
Min	1280	467	4.88	1.660								
Max	3580	1310	13.60	4.670								

ED_001509B_00005068-00160

Table F5. Daily means (SD) of PM10 emissions at site IN2B for March, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3	3150 (4240)	1150 (1550)	12.10 (16.20)	4.100 (5.510)								
4	1410 (1180)	516 (431)	5.39 (4.50)	1.840 (1.530)								
5												
6												
7												
8												
9												
10												
11												
12												
13	548 (1740)	200 (635)	2.09 (6.64)	0.717 (2.270)								
14	323 (758)	118 (277)	1.23 (2.90)	0.423 (0.993)								
15	615 (1240)	225 (455)	2.35 (4.75)	0.806 (1.630)								
16	139 (933)	51 (341)	0.53 (3.57)	0.182 (1.220)								
17												
18	743 (780)	272 (285)	2.84 (2.98)	0.974 (1.020)								
19	160 (396)	59 (145)	0.61 (1.51)	0.210 (0.519)								
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	887	324	3.39	1.160								
n	8	8	8	8	0	0	0	0	0	0	0	0
SD	938.0	343.0	3.58	1.220								
Min	139	51	0.53	0.182								
Max	3150	1150	12.10	4.100								

ED_001509B_00005068-00161

Table F5. Daily means (SD) of PM10 emissions at site IN2B for April, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19					794 (8780)	290 (3210)	3.18 (35.20)	1.06 (11.80)	67 (1510)	26 (581)	0.132 (2.950)	0.045 (1.010)
20					-144 (5880)	-53 (2150)	-0.58 (23.60)	-0.19 (7.87)	-124 (1340)	-48 (516)	-0.243 (2.620)	-0.083 (0.894)
21					9910 (23300)	3620 (8520)	39.70 (93.30)	13.20 (31.10)	1260 (2760)	485 (1060)	2.470 (5.410)	0.842 (1.850)
22					-237 (10500)	-87 (3850)	-0.95 (42.20)	-0.32 (14.10)	511 (1800)	197 (695)	1.000 (3.530)	0.342 (1.210)
23									601 (1890)	232 (728)	1.180 (3.700)	0.402 (1.260)
24					1060 (8090)	387 (2960)	4.25 (32.50)	1.41 (10.80)	958 (2350)	370 (905)	1.880 (4.600)	0.641 (1.570)
25					21800 (52400)	7960 (19200)	87.30 (210.00)	29.00 (69.90)	2560 (4420)	986 (1700)	5.010 (8.660)	1.710 (2.960)
26					496 (2030)	181 (742)	1.99 (8.14)	0.66 (2.71)	138 (219)	53 (84)	0.271 (0.429)	0.093 (0.147)
27					-316 (1780)	-116 (652)	-1.27 (7.16)	-0.42 (2.39)	-18 (36)	-7 (14)	-0.036 (0.070)	-0.012 (0.024)
28												
29					27 (805)	10 (295)	0.11 (3.23)	0.04 (1.09)	35 (230)	14 (89)	0.069 (0.451)	0.024 (0.155)
30					19100 (31200)	6980 (11400)	76.70 (126.00)	25.80 (42.30)	1470 (3650)	568 (1410)	2.890 (7.170)	0.996 (2.470)
Avg					5240	1920	21.0	(7.03)	678	261.0	1.330	0.455
n	0	0	0	0	10	10	10	10	11	11	11	11
SD					8150.0	2980.0	32.7	(10.90)	787	304.0	1.540	0.528
Min					-316	-116	-1.3	-(0.42)	-124	-47.9	-0.243	-0.083
Max					21800	7960	87.3	(29.00)	2560	986.0	5.010	1.710

ED_001509B_00005068-00162

Table F5. Daily means (SD) of PM10 emissions at site IN2B for May, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2					26500 (71700)	9700 (26200)	107.00 (288.00)	36.10 (97.70)	482 (1720)	186 (665)	0.945 (3.380)	0.327 (1.170)
3					32000 (58800)	11700 (21500)	129.00 (236.00)	43.60 (80.20)	622 (1250)	240 (482)	1.220 (2.450)	0.423 (0.850)
4					-367 (2310)	-134 (846)	-1.48 (9.30)	-0.50 (3.14)	49 (444)	19 (171)	0.095 (0.872)	0.033 (0.301)
5					48800 (84000)	17900 (30700)	196.00 (338.00)	66.10 (114.00)	759 (1240)	293 (480)	1.490 (2.440)	0.514 (0.842)
6					-951 (7350)	-348 (2690)	-3.83 (29.60)	-1.28 (9.92)	307 (800)	118 (308)	0.603 (1.570)	0.207 (0.540)
7					28600 (67900)	10500 (24900)	115.00 (274.00)	38.50 (91.50)	148 (495)	57 (191)	0.290 (0.972)	0.100 (0.333)
8					23100 (50100)	8440 (18300)	92.90 (202.00)	31.00 (67.20)	208 (815)	80 (314)	0.408 (1.600)	0.140 (0.548)
9					6990 (28500)	2560 (10400)	28.20 (115.00)	9.35 (38.10)	48 (295)	18 (114)	0.093 (0.579)	0.032 (0.198)
10					40100 (65400)	14700 (23900)	161.00 (264.00)	53.50 (87.30)	296 (856)	114 (330)	0.581 (1.680)	0.198 (0.573)
11					314 (733)	115 (268)	1.27 (2.95)	0.42 (0.98)	5 (68)	2 (26)	0.010 (0.134)	0.004 (0.046)
12					7820 (25200)	2860 (9230)	31.50 (102.00)	10.40 (33.60)	27 (155)	11 (60)	0.053 (0.304)	0.018 (0.104)
13					8310 (26000)	3040 (9510)	33.50 (105.00)	11.10 (34.60)	7 (611)	3 (236)	0.014 (1.200)	0.005 (0.410)
14					22000 (50100)	8060 (18300)	88.80 (202.00)	29.30 (66.70)	187 (499)	72 (192)	0.368 (0.982)	0.126 (0.335)
15					16400 (34300)	5990 (12600)	66.10 (139.00)	21.80 (45.70)	90 (347)	35 (134)	0.176 (0.683)	0.060 (0.233)
16					20600 (38800)	7530 (14200)	83.10 (156.00)	27.40 (51.60)	68 (280)	26 (108)	0.134 (0.552)	0.046 (0.188)
17					22100 (46000)	8070 (16800)	89.10 (186.00)	29.30 (61.20)	26 (118)	10 (46)	0.052 (0.232)	0.018 (0.079)
18					393 (2080)	144 (759)	1.59 (8.39)	0.52 (2.76)	-7 (79)	-3 (30)	-0.013 (0.155)	-0.004 (0.053)
19					15600 (30700)	5710 (11200)	63.10 (124.00)	20.80 (40.80)	77 (294)	30 (113)	0.152 (0.578)	0.052 (0.197)
20					14600 (29900)	5350 (10900)	59.10 (121.00)	19.50 (39.80)	58 (197)	22 (76)	0.113 (0.387)	0.039 (0.132)
21					16300 (34100)	5960 (12500)	65.80 (138.00)	21.70 (45.40)	60 (269)	23 (104)	0.117 (0.531)	0.040 (0.181)
22					625 (27900)	229 (10200)	2.52 (113.00)	0.83 (37.10)	-94 (737)	-36 (284)	-0.185 (1.450)	-0.063 (0.495)
23					2180 (10500)	797 (3840)	8.82 (42.40)	2.90 (14.00)	160 (584)	62 (225)	0.315 (1.150)	0.107 (0.392)
24					24500 (50300)	8970 (18400)	99.20 (203.00)	32.70 (67.00)	56 (599)	22 (231)	0.111 (1.180)	0.038 (0.402)
25					1840 (11500)	671 (4220)	7.43 (46.70)	2.45 (15.40)	-220 (1050)	-85 (407)	-0.433 (2.080)	-0.148 (0.707)
26					66500 (112000)	24300 (41100)	269.00 (455.00)	88.60 (150.00)	250 (1040)	96 (401)	0.493 (2.050)	0.168 (0.697)
27												
28					12100 (23800)	4440 (8710)	49.20 (96.50)	16.20 (31.70)	238 (606)	92 (234)	0.469 (1.200)	0.159 (0.407)
29					13500 (33800)	4940 (12400)	54.70 (137.00)	18.00 (45.10)	-27 (469)	-10 (181)	-0.053 (0.924)	-0.018 (0.315)
30					50300 (92300)	18400 (33800)	204.00 (374.00)	67.00 (123.00)	347 (1530)	134 (588)	0.685 (3.010)	0.233 (1.020)
31					19100 (43500)	7000 (15900)	77.60 (177.00)	25.50 (58.00)	-13 (492)	-5 (190)	-0.026 (0.971)	-0.009 (0.330)
Avg					18600	6810	75.2	(24.90)	145	56.0	0.286	0.098
n	0	0	0	0	29	29	29	29	29	29	29	29
SD					16400.0	6020.0	66.4	(22.00)	205	79.2	0.404	0.139
Min					-951	-348	-3.8	-(1.28)	-220	-84.8	-0.433	-0.148
Max					66500	24300	269.0	(88.60)	759	293.0	1.490	0.514

ED_001509B_00005068-00163

Table F5. Daily means (SD) of PM10 emissions at site IN2B for June, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1					-1280 (8840)	-467 (3230)	-5.18 (35.80)	-1.70 (11.80)	-39 (238)	-15 (92)	-0.076 (0.469)	-0.026 (0.160)
2					38600 (94800)	14100 (34700)	157.00 (384.00)	51.30 (126.00)	163 (570)	63 (220)	0.322 (1.130)	0.110 (0.384)
3					19700 (44600)	7220 (16300)	80.00 (181.00)	26.20 (59.30)	-26 (876)	-10 (338)	-0.051 (1.730)	-0.018 (0.590)
4									864 (2660)	333 (1020)	1.710 (5.240)	0.582 (1.790)
5									469 (1110)	181 (427)	0.926 (2.190)	0.316 (0.748)
6									423 (1240)	163 (477)	0.836 (2.440)	0.286 (0.835)
7									29 (529)	11 (204)	0.058 (1.050)	0.020 (0.358)
8									18 (1190)	7 (459)	0.035 (2.350)	0.012 (0.805)
9									72 (400)	28 (154)	0.143 (0.790)	0.049 (0.270)
10									96 (813)	37 (313)	0.190 (1.610)	0.065 (0.549)
11									244 (844)	94 (325)	0.482 (1.670)	0.165 (0.570)
12									658 (2810)	254 (1080)	1.300 (5.560)	0.445 (1.900)
13												
14									61 (283)	24 (109)	0.120 (0.560)	0.041 (0.192)
15									6 (288)	3 (111)	0.013 (0.569)	0.004 (0.197)
16									105 (378)	40 (146)	0.207 (0.747)	0.072 (0.260)
17									93 (359)	36 (138)	0.184 (0.710)	0.064 (0.249)
18									35 (282)	14 (109)	0.070 (0.557)	0.025 (0.197)
19												
20												
21												
22												
23												
24												
25												
26												
27												
28	-1330 (6920)	-486 (2530)	-5.13 (26.70)	-1.800 (9.350)	1860 (11300)	681 (4120)	7.60 (46.00)	2.70 (16.30)	46 (285)	18 (110)	0.092 (0.565)	0.032 (0.199)
29	-2540 (1330)	-930 (485)	-9.81 (5.11)	-3.440 (1.790)	-2340 (2230)	-856 (815)	-9.55 (9.09)	-3.35 (3.19)	-91 (139)	-35 (54)	-0.180 (0.277)	-0.063 (0.097)
30	2070 (8320)	758 (3040)	7.99 (32.10)	2.800 (11.200)	4570 (11400)	1670 (4180)	18.60 (46.70)	6.48 (16.20)	19 (182)	7 (70)	0.038 (0.360)	0.013 (0.126)
Avg	-601	-220	-2.32	-0.811	10200	3730	41.3	(13.60)	162	62.6	0.321	0.110
n	3	3	3	3	6	6	6	6	20	20	20	20
SD	1950.0	715.0	7.53	2.640	14600.0	5360.0	59.4	(19.50)	244	94.1	0.482	0.165
Min	-2540	-930	-9.81	-3.440	-2340	-856	-9.6	-(3.35)	-91	-35.0	-0.180	-0.063
Max	2070	758	7.99	2.800	38600	14100	157.0	(51.30)	864	333.0	1.710	0.582

ED_001509B_00005068-00164

Table F5. Daily means (SD) of PM10 emissions at site IN2B for July, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	7380 (17300)	2700 (6340)	28.50 (66.80)	9.970 (23.400)	1580 (16500)	579 (6050)	6.47 (67.60)	2.24 (23.20)	113 (341)	44 (131)	0.224 (0.676)	0.078 (0.234)
2	8060 (25600)	2950 (9370)	31.10 (98.80)	10.900 (34.600)	13900 (39300)	5090 (14400)	56.90 (161.00)	19.40 (54.70)	339 (886)	131 (342)	0.673 (1.760)	0.232 (0.607)
3	4910 (13800)	1800 (5030)	18.90 (53.00)	6.640 (18.600)	7970 (22100)	2910 (8080)	32.60 (90.30)	11.00 (30.40)	116 (546)	45 (211)	0.231 (1.080)	0.079 (0.372)
4	3190 (9490)	1170 (3470)	12.30 (36.60)	4.310 (12.800)	4540 (11900)	1660 (4360)	18.60 (48.70)	6.20 (16.20)	38 (248)	15 (96)	0.075 (0.493)	0.026 (0.169)
5	958 (7970)	350 (2920)	3.70 (30.80)	1.290 (10.800)	2610 (11700)	954 (4290)	10.70 (47.90)	3.53 (15.90)	-28 (89)	-11 (34)	-0.056 (0.177)	-0.019 (0.060)
6	-2680 (2310)	-981 (844)	-10.30 (8.90)	-3.630 (3.120)	-2670 (2410)	-976 (883)	-10.90 (9.87)	-3.60 (3.25)	-40 (76)	-15 (29)	-0.079 (0.150)	-0.027 (0.051)
7	10400 (24200)	3810 (8850)	40.20 (93.40)	14.100 (32.800)	11100 (26800)	4070 (9820)	45.50 (110.00)	15.00 (36.10)	191 (438)	74 (169)	0.378 (0.870)	0.129 (0.296)
8	-239 (9220)	-88 (3370)	-0.92 (35.60)	-0.325 (12.500)	9690 (30300)	3540 (11100)	38.10 (112.00)	12.50 (36.80)	264 (792)	102 (305)	0.525 (1.570)	0.178 (0.534)
9												
10	-2250 (17200)	-822 (6290)	-8.68 (66.40)	-3.050 (23.400)	10600 (26500)	3890 (9670)	43.50 (108.00)	14.20 (35.30)	111 (278)	43 (107)	0.221 (0.553)	0.075 (0.187)
11	1250 (12100)	457 (4440)	4.83 (46.80)	1.700 (16.500)	8200 (21000)	3000 (7690)	33.60 (86.10)	10.90 (28.00)	69 (157)	27 (61)	0.137 (0.312)	0.047 (0.106)
12	4160 (14500)	1520 (5290)	16.10 (55.80)	5.670 (19.700)	6120 (16400)	2240 (6010)	25.10 (67.30)	8.14 (21.80)	176 (446)	68 (172)	0.350 (0.886)	0.119 (0.300)
13												
14	3460 (10900)	1270 (3980)	13.40 (42.00)	4.730 (14.900)	6160 (13900)	2250 (5100)	25.20 (57.10)	8.23 (18.60)	107 (306)	41 (118)	0.213 (0.608)	0.072 (0.207)
15	5380 (17600)	1970 (6440)	20.80 (68.00)	7.360 (24.100)	4220 (13100)	1540 (4780)	17.30 (53.60)	5.65 (17.50)	117 (342)	45 (132)	0.233 (0.680)	0.079 (0.231)
16	5520 (39500)	2020 (14400)	21.30 (152.00)	7.560 (54.100)	-187 (12800)	-68 (4690)	-0.77 (52.60)	-0.25 (17.20)	45 (145)	17 (56)	0.090 (0.288)	0.031 (0.098)
17	11900 (46200)	4350 (16900)	46.00 (178.00)	16.300 (63.300)	4490 (21500)	1640 (7880)	18.40 (88.30)	6.04 (29.00)	72 (185)	28 (71)	0.143 (0.367)	0.049 (0.125)
18									56 (342)	22 (132)	0.112 (0.680)	0.038 (0.233)
19	10700 (34600)	3910 (12700)	41.30 (134.00)	14.700 (47.600)	2470 (15000)	905 (5500)	10.10 (61.70)	3.34 (20.30)	227 (615)	87 (237)	0.451 (1.220)	0.154 (0.419)
20	-3230 (6330)	-1180 (2320)	-12.50 (24.50)	-4.440 (8.690)	-2480 (2390)	-907 (874)	-10.20 (9.80)	-3.35 (3.23)	5 (89)	2 (34)	0.010 (0.177)	0.003 (0.061)
21	6350 (18100)	2320 (6640)	24.60 (70.10)	8.710 (24.900)	4210 (14300)	1540 (5220)	17.30 (58.60)	5.70 (19.30)				
22	3360 (13600)	1230 (4980)	13.00 (52.70)	4.590 (18.600)	4680 (13900)	1710 (5090)	19.20 (57.10)	6.33 (18.80)				
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	4140	1510	16.00	5.640	5120	1870	20.9	(6.90)	110	42.4	0.218	0.075
n	19	19	19	19	19	19	19	19	18	18	18	18
SD	4340.0	1590.0	16.80	5.930	4350.0	1590.0	17.7	(5.88)	97	37.4	0.192	0.066
Min	-3230	-1180	-12.50	-4.440	-2670	-976	-10.9	-(3.60)	-40	-15.4	-0.079	-0.027
Max	11900	4350	46.00	16.300	13900	5090	56.9	(19.40)	339	131.0	0.673	0.232

ED_001509B_00005068-00165

Table F5. Daily means (SD) of PM10 emissions at site IN2B for August, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	10600 (19300)	3890 (7070)	41.30 (75.00)	14.500 (26.400)					256 (515)	99 (199)	0.513 (1.030)	0.174 (0.349)
16	6830 (21600)	2500 (7890)	26.50 (83.60)	9.320 (29.400)					342 (1050)	132 (405)	0.683 (2.100)	0.231 (0.711)
17	498 (2130)	182 (780)	1.93 (8.27)	0.681 (2.910)					122 (197)	47 (76)	0.243 (0.395)	0.083 (0.134)
18	16900 (58500)	6180 (21400)	65.50 (227.00)	23.100 (80.200)								
19	13100 (34600)	4780 (12700)	50.70 (134.00)	17.900 (47.500)								
20	7280 (21800)	2660 (7970)	28.30 (84.60)	10.000 (30.000)								
21	4670 (21400)	1710 (7840)	18.10 (83.10)	6.430 (29.500)					338 (1150)	130 (443)	0.677 (2.300)	0.232 (0.788)
22	5450 (24500)	2000 (8960)	21.20 (95.00)	7.530 (33.800)					297 (880)	115 (339)	0.595 (1.760)	0.204 (0.604)
23	44 (7970)	16 (2910)	0.17 (30.90)	0.061 (11.000)								
24	-1250 (1240)	-458 (453)	-4.86 (4.80)	-1.730 (1.710)								
25	3200 (7760)	1170 (2840)	12.40 (30.10)	4.430 (10.700)	2340 (7220)	857 (2640)	9.70 (29.90)	3.23 (9.94)				
26	1260 (7430)	461 (2720)	4.90 (28.90)	1.750 (10.300)	16000 (62500)	5860 (22900)	66.40 (259.00)	22.10 (86.20)				
27	2580 (9380)	942 (3430)	10.00 (36.40)	3.570 (13.000)	3760 (11300)	1380 (4140)	15.60 (46.90)	5.20 (15.60)				
28	3540 (10300)	1290 (3780)	13.70 (40.10)	4.900 (14.300)	4390 (8520)	1600 (3120)	18.20 (35.30)	6.08 (11.80)				
29	6800 (14200)	2490 (5180)	26.40 (55.00)	9.420 (19.600)	8210 (25200)	3000 (9220)	34.00 (104.00)	11.40 (35.00)				
30	2590 (7880)	948 (2880)	10.10 (30.60)	3.600 (10.900)	5040 (19500)	1840 (7120)	20.90 (80.70)	7.00 (27.00)				
31	-1720 (2290)	-630 (836)	-6.69 (8.88)	-2.390 (3.170)	-1190 (12300)	-436 (4510)	-4.94 (51.10)	-1.65 (17.10)				
Avg	4840	1770	18.80	6.650	5510	2020	22.8	(7.62)	271	105.0	0.542	0.185
n	17	17	17	17	7	7	7	7	5	5	5	5
SD	4910.0	1800.0	19.00	6.730	5040.0	1840.0	20.8	(6.95)	81	31.2	0.162	0.055
Min	-1720	-630	-6.69	-2.390	-1190	-436	-4.9	-(1.65)	122	46.9	0.243	0.083
Max	16900	6180	65.50	23.100	16000	5860	66.4	(22.10)	342	132.0	0.683	0.232

ED_001509B_00005068-00166

Table F5. Daily means (SD) of PM10 emissions at site IN2B for September, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	2560 (10400)	938 (3810)	9.96 (40.50)	3.550 (14.400)	5710 (12700)	2090 (4640)	23.70 (52.60)	7.91 (17.60)				
2	4020 (15200)	1470 (5540)	15.60 (58.90)	5.570 (21.000)	10000 (20800)	3660 (7610)	41.50 (86.30)	13.90 (28.80)				
3	5230 (17300)	1910 (6330)	20.30 (67.20)	7.240 (24.000)	18400 (62200)	6750 (22800)	76.50 (258.00)	25.50 (86.00)				
4	4190 (12100)	1530 (4410)	16.30 (46.80)	5.800 (16.700)	28000 (76200)	10200 (27900)	116.00 (316.00)	38.60 (105.00)				
5	-653 (3490)	-239 (1280)	-2.54 (13.50)	-0.904 (4.820)	3990 (13000)	1460 (4750)	16.60 (53.90)	5.51 (17.90)				
6	-813 (2530)	-297 (924)	-3.16 (9.82)	-1.120 (3.500)	2640 (10000)	965 (3670)	11.00 (41.60)	3.64 (13.80)	-14 (66)	-5 (26)	-0.028 (0.133)	-0.010 (0.046)
7	-1240 (746)	-455 (273)	-4.83 (2.90)	-1.720 (1.030)	-715 (960)	-262 (351)	-2.97 (3.99)	-0.99 (1.32)	-38 (79)	-15 (30)	-0.077 (0.158)	-0.026 (0.054)
8												
9												
10												
11	-1900 (2360)	-696 (863)	-7.40 (9.17)	-2.630 (3.260)	2380 (7080)	871 (2590)	9.89 (29.40)	3.27 (9.73)	71 (400)	27 (154)	0.142 (0.804)	0.049 (0.276)
12	-1590 (6230)	-580 (2280)	-6.17 (24.20)	-2.190 (8.610)	5350 (13500)	1960 (4950)	22.20 (56.20)	7.35 (18.60)	54 (233)	21 (90)	0.108 (0.468)	0.037 (0.160)
13	-3450 (3500)	-1260 (1280)	-13.40 (13.60)	-4.770 (4.820)	2680 (19700)	980 (7200)	11.10 (81.80)	3.68 (27.00)	92 (462)	36 (178)	0.186 (0.928)	0.064 (0.318)
14	-2700 (1760)	-989 (644)	-10.50 (6.85)	-3.730 (2.430)	-1200 (1580)	-439 (578)	-4.99 (6.58)	-1.65 (2.17)	25 (806)	10 (311)	0.051 (1.620)	0.018 (0.555)
15	-1750 (1250)	-640 (457)	-6.81 (4.86)	-2.410 (1.720)	2500 (15900)	916 (5810)	10.40 (66.10)	3.44 (21.90)	-39 (101)	-15 (39)	-0.078 (0.202)	-0.027 (0.069)
16	-1940 (1600)	-709 (586)	-7.54 (6.23)	-2.670 (2.200)	-371 (2320)	-136 (848)	-1.54 (9.65)	-0.51 (3.19)	-59 (129)	-23 (50)	-0.119 (0.259)	-0.041 (0.089)
17	-3730 (4290)	-1360 (1570)	-14.50 (16.70)	-5.120 (5.890)	-397 (5850)	-145 (2140)	-1.65 (24.30)	-0.55 (8.06)	-55 (178)	-21 (69)	-0.111 (0.359)	-0.038 (0.123)
18												
19	-2440 (5390)	-894 (1970)	-9.51 (21.00)	-3.350 (7.400)	773 (5940)	283 (2170)	3.22 (24.70)	1.07 (8.19)	-101 (273)	-39 (105)	-0.203 (0.549)	-0.070 (0.188)
20	-4410 (4300)	-1610 (1570)	-17.10 (16.70)	-6.050 (5.910)	1610 (27500)	590 (10000)	6.72 (114.00)	2.23 (37.90)	-64 (221)	-25 (85)	-0.129 (0.445)	-0.044 (0.152)
21	-4080 (4310)	-1490 (1580)	-15.90 (16.80)	-5.610 (5.930)	-2530 (3330)	-924 (1220)	-10.50 (13.90)	-3.49 (4.59)	-157 (250)	-61 (97)	-0.316 (0.504)	-0.108 (0.172)
22	-2480 (4040)	-907 (1480)	-9.66 (15.70)	-3.410 (5.570)	1540 (6930)	563 (2530)	6.42 (28.90)	2.12 (9.56)	-87 (344)	-34 (133)	-0.175 (0.693)	-0.060 (0.237)
23	12100 (76300)	4430 (27900)	47.10 (297.00)	15.200 (91.700)	-1650 (4660)	-604 (1710)	-6.88 (19.40)	-2.28 (6.43)	-169 (302)	-65 (116)	-0.340 (0.607)	-0.116 (0.208)
24	-1630 (14200)	-597 (5210)	-6.36 (55.50)	-2.250 (19.600)	-1640 (6500)	-599 (2380)	-6.83 (27.10)	-2.26 (8.96)	552 (2830)	213 (1090)	1.110 (5.690)	0.381 (1.950)
25	525 (25400)	192 (9300)	2.04 (99.00)	0.723 (35.100)	6130 (28800)	2240 (10500)	25.60 (120.00)	8.45 (39.70)	173 (834)	67 (322)	0.349 (1.680)	0.120 (0.575)
26	-2190 (3060)	-799 (1120)	-8.51 (11.90)	-3.020 (4.220)	1070 (13500)	391 (4940)	4.46 (56.30)	1.47 (18.60)	36 (685)	14 (264)	0.073 (1.380)	0.025 (0.473)
27	-2720 (6250)	-994 (2290)	-10.60 (24.40)	-3.750 (8.640)	9260 (36200)	3390 (13200)	38.70 (151.00)	12.80 (50.00)	-315 (344)	-121 (133)	-0.635 (0.694)	-0.218 (0.238)
28	-4610 (3560)	-1690 (1300)	-18.00 (13.90)	-6.370 (4.920)	-6850 (7700)	-2500 (2820)	-28.60 (32.10)	-9.53 (10.70)	-219 (298)	-85 (115)	-0.442 (0.601)	-0.152 (0.207)
29	-2900 (3480)	-1060 (1270)	-11.30 (13.60)	-4.000 (4.810)	7480 (43700)	2740 (16000)	31.20 (182.00)	10.50 (61.10)	-328 (330)	-126 (127)	-0.661 (0.665)	-0.228 (0.229)
30	-2030 (1720)	-743 (627)	-7.92 (6.68)	-2.800 (2.360)					-203 (277)	-78 (107)	-0.410 (0.559)	-0.142 (0.193)
Avg	-794	-290	-3.09	-1.150	3770	1380	15.6	(5.21)	-40	-15.5	-0.081	-0.028
n	26	26	26	26	25	25	25	25	21	21	21	21
SD	3630.0	1330.0	14.10	4.820	6980.0	2550.0	29.0	(9.65)	183	70.4	0.368	0.126
Min	-4610	-1690	-18.00	-6.370	-6850	-2500	-28.6	-(9.53)	-328	-126.0	-0.661	-0.228
Max	12100	4430	47.10	15.200	28000	10200	116.0	(38.60)	552	213.0	1.110	0.381

ED_001509B_00005068-00167

Table F5. Daily means (SD) of PM10 emissions at site IN2B for October, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	-1380 (926)	-506 (339)	-5.39 (3.61)	-1.910 (1.280)					-83 (187)	-32 (72)	-0.166 (0.376)	-0.058 (0.130)
2	-1270 (1370)	-463 (502)	-4.94 (5.35)	-1.740 (1.890)	2110 (9730)	772 (3560)	8.82 (40.60)	3.02 (13.90)	-112 (139)	-43 (54)	-0.227 (0.280)	-0.079 (0.098)
3												
4												
5												
6												
7												
8												
9												
10	3140 (21900)	1150 (8020)	12.30 (85.50)	4.260 (29.700)	79 (9860)	29 (3610)			70 (339)	27 (131)		
11	-3260 (5410)	-1190 (1980)	-12.70 (21.10)	-4.420 (7.330)	-5510 (5180)	-2020 (1900)						
12	-4330 (6610)	-1590 (2420)	-16.90 (25.80)	-5.870 (8.950)	-4430 (5010)	-1620 (1830)						
13	-2220 (15300)	-811 (5580)	-8.65 (59.60)	-3.000 (20.700)	-3600 (6690)	-1320 (2450)						
14	2910 (23400)	1070 (8550)	11.40 (91.30)	3.950 (31.700)	1830 (3270)	669 (1200)						
15	-2220 (4020)	-813 (1470)	-8.68 (15.70)	-3.010 (5.450)	1360 (3900)	499 (1430)			195 (760)	75 (293)		
16	-797 (1380)	-291 (506)	-3.11 (5.40)	-1.080 (1.870)					82 (770)	32 (297)		
17	958 (3530)	350 (1290)	3.74 (13.80)	1.300 (4.780)					141 (725)	54 (279)		
18	-251 (1540)	-92 (564)	-0.98 (6.02)	-0.341 (2.090)					-98 (202)	-38 (78)		
19	-1250 (2030)	-458 (744)	-4.89 (7.94)	-1.700 (2.770)					-358 (612)	-138 (236)		
20	1210 (9400)	443 (3440)	4.73 (36.70)	1.650 (12.800)					-198 (255)	-77 (98)		
21	768 (2320)	281 (848)	3.00 (9.06)	1.050 (3.170)					-65 (188)	-25 (73)		
22	633 (2390)	232 (873)	2.47 (9.32)	0.867 (3.270)					-93 (242)	-36 (94)		
23	2 (4460)	1 (1630)	0.01 (17.40)	0.003 (6.120)								
24	468 (3970)	171 (1450)	1.83 (15.50)	0.643 (5.460)	3900 (3750)	1430 (1370)						
25	156 (868)	57 (318)	0.61 (3.39)	0.215 (1.200)	4330 (2430)	1580 (888)	18.90 (10.60)	7.71 (4.32)				
26	112 (759)	41 (277)	0.44 (2.97)	0.154 (1.040)	4360 (3010)	1590 (1100)	19.10 (13.20)	7.82 (5.39)				
27	532 (763)	195 (279)	2.08 (2.98)	0.731 (1.050)	5060 (4540)	1850 (1660)	22.10 (19.90)	9.16 (8.21)				
28	788 (3510)	288 (1280)	3.08 (13.70)	1.080 (4.810)	3590 (2480)	1310 (906)	15.70 (10.80)	6.55 (4.52)				
29	202 (672)	74 (246)	0.79 (2.63)	0.276 (0.919)	3240 (1860)	1190 (681)	14.20 (8.14)	5.96 (3.43)				
30	-113 (1820)	-41 (667)	-0.44 (7.13)	-0.154 (2.490)	4970 (2400)	1820 (878)	21.70 (10.50)	9.23 (4.46)				
31	-785 (1290)	-287 (472)	-3.07 (5.05)	-1.070 (1.760)	8690 (7200)	3180 (2630)	38.00 (31.50)	16.30 (13.50)				
Avg	-250	-91	-0.97	-0.339	2000	731	19.8	(8.21)	-47	-18.2	-0.196	-0.068
n	24	24	24	24	15	15	8	8	11	11	2	2
SD	1670.0	612.0	6.53	2.270	3790.0	1380.0	8.0	(3.57)	152	58.7	0.030	0.011
Min	-4330	-1590	-16.90	-5.870	-5510	-2020	8.8	(3.02)	-358	-138.0	-0.227	-0.079
Max	3140	1150	12.30	4.260	8690	3180	38.0	(16.30)	195	75.3	-0.166	-0.058

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for November, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	535 (2580)	196 (944)	2.09 (10.10)	0.729 (3.520)	4530 (4200)	1660 (1540)	19.60 (18.20)	8.41 (7.81)				
2	25 (755)	9 (276)	0.10 (2.95)	0.034 (1.030)	7430 (5060)	2720 (1850)	31.80 (21.70)	13.60 (9.23)				
3	199 (3530)	73 (1290)	0.78 (13.80)	0.271 (4.820)	7160 (11700)	2620 (4270)	30.30 (49.40)	12.80 (20.90)				
4	-173 (2570)	-63 (940)	-0.68 (10.10)	-0.237 (3.510)	5350 (4480)	1960 (1640)	22.30 (18.70)	9.44 (7.91)				
5	455 (2360)	166 (862)	1.78 (9.22)	0.621 (3.220)	7630 (7890)	2790 (2890)	31.50 (32.50)	13.20 (13.70)				
6	-547 (2290)	-200 (839)	-2.14 (8.98)	-0.747 (3.130)								
7	1410 (2290)	514 (838)	5.50 (8.97)	1.920 (3.130)	8150 (6680)	2980 (2440)	32.70 (26.90)	13.60 (11.20)				
8	1610 (2370)	591 (866)	6.32 (9.27)	2.210 (3.240)	4560 (2000)	1670 (731)	18.20 (7.96)	7.52 (3.30)				
9	665 (463)	243 (170)	2.60 (1.82)	0.910 (0.634)	3970 (1410)	1450 (514)	15.90 (5.61)	6.53 (2.31)				
10	1660 (2580)	607 (945)	6.50 (10.10)	2.270 (3.540)	5300 (5560)	1940 (2040)	21.20 (22.20)	8.67 (9.11)				
11	838 (1830)	307 (670)	3.28 (7.18)	1.150 (2.510)	6030 (5060)	2210 (1850)	24.10 (20.20)	9.82 (8.24)				
12	909 (1740)	332 (635)	3.56 (6.81)	1.250 (2.380)	7120 (15600)	2610 (5700)	28.40 (62.20)	11.50 (25.30)				
13												
14	1480 (2370)	541 (866)	5.80 (9.28)	2.030 (3.250)	11300 (8170)	4120 (2990)	44.90 (32.60)	18.10 (13.10)				
15	1270 (1890)	465 (690)	4.99 (7.40)	1.750 (2.590)	7120 (2430)	2600 (889)	28.40 (9.69)	11.40 (3.88)				
16	661 (696)	242 (254)	2.59 (2.73)	0.908 (0.956)	5200 (2750)	1900 (1000)	20.80 (11.00)	8.27 (4.36)				
17	1090 (1320)	397 (482)	4.26 (5.17)	1.490 (1.810)	6080 (2860)	2220 (1050)	24.20 (11.40)	9.60 (4.51)				
18	657 (963)	240 (352)	2.58 (3.78)	0.902 (1.320)	7720 (4770)	2820 (1750)	30.80 (19.00)	12.10 (7.50)				
19												
20	779 (899)	285 (329)	3.05 (3.53)	1.070 (1.240)	6020 (3860)	2200 (1410)	24.00 (15.40)	9.37 (6.00)				
21	1040 (940)	380 (344)	4.08 (3.69)	1.430 (1.290)	9950 (5390)	3640 (1970)	39.70 (21.50)	15.40 (8.35)				
22	634 (660)	232 (242)	2.49 (2.59)	0.870 (0.907)	10500 (7620)	3830 (2790)	41.70 (30.40)	16.10 (11.70)				
23	479 (662)	175 (242)	1.88 (2.60)	0.658 (0.909)	4710 (1730)	1720 (632)	18.80 (6.89)	7.22 (2.64)				
24	2030 (3160)	743 (1160)	7.97 (12.40)	2.780 (4.330)	18100 (28300)	6620 (10400)	72.20 (113.00)	27.60 (43.10)				
25	858 (1210)	314 (443)	3.37 (4.75)	1.170 (1.660)	11600 (10200)	4250 (3740)	46.30 (40.80)	17.60 (15.50)				
26	893 (1010)	327 (368)	3.51 (3.95)	1.220 (1.370)	18800 (16000)	6890 (5840)	75.10 (63.70)	28.30 (24.00)				
27	507 (1130)	186 (412)	1.99 (4.42)	0.693 (1.540)	17000 (14200)	6230 (5200)	68.00 (56.70)	25.50 (21.30)				
28	1080 (1360)	396 (496)	4.25 (5.32)	1.480 (1.850)	17900 (14500)	6550 (5300)	71.40 (57.80)	26.60 (21.60)				
29	487 (781)	178 (286)	1.91 (3.07)	0.664 (1.060)	14000 (11100)	5120 (4060)	55.80 (44.30)	20.70 (16.40)				
30	503 (726)	184 (266)	1.98 (2.85)	0.684 (0.987)	12200 (6940)	4470 (2540)	48.80 (27.70)	17.90 (10.20)				
Avg	787	288	3.09	1.080	9090	3330	36.6	(14.30)				
n	28	28	28	28	27	27	27	27	0	0	0	0
SD	554.0	203.0	2.17	0.759	4480.0	1640.0	17.7	(6.40)				
Min	-547	-200	-2.14	-0.747	3970	1450	15.9	(6.53)				
Max	2030	743	7.97	2.780	18800	6890	75.1	(28.30)				

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for December, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	1520 (2400)	556 (878)	5.97 (9.43)	2.060 (3.260)	16600 (19700)	6060 (7190)	66.10 (78.40)	24.10 (28.70)				
2												
3												
4												
5	769 (1360)	281 (498)	3.03 (5.35)	1.040 (1.840)	14700 (14900)	5390 (5430)	58.90 (59.30)	20.90 (21.10)	26 (87)	10 (33)	0.052 (0.172)	0.018 (0.060)
6	649 (1510)	238 (553)	2.55 (5.95)	0.875 (2.040)	18300 (19000)	6680 (6940)	72.90 (75.70)	25.70 (26.70)	112 (170)	43 (66)	0.223 (0.336)	0.077 (0.117)
7	563 (933)	206 (341)	2.21 (3.67)	0.758 (1.260)	10400 (4160)	3820 (1520)	41.70 (16.60)	14.60 (5.82)	25 (39)	10 (15)	0.050 (0.078)	0.017 (0.027)
8												
9												
10												
11	399 (870)	146 (318)	1.57 (3.42)	0.536 (1.170)	10900 (8320)	4000 (3040)	43.70 (33.20)	15.00 (11.40)	140 (369)	54 (142)	0.278 (0.732)	0.095 (0.251)
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25	863 (2190)	316 (802)	3.41 (8.65)	1.160 (2.960)	12000 (4590)	4380 (1680)	47.80 (18.30)	16.50 (6.32)				
26	-180 (4070)	-66 (1490)	-0.71 (16.10)	-0.243 (5.490)	13900 (9160)	5080 (3350)	55.50 (36.60)	19.20 (12.60)				
27												
28	1880 (4320)	688 (1580)	7.43 (17.00)	2.530 (5.810)	14600 (9810)	5340 (3590)	58.30 (39.20)	20.10 (13.50)				
29	1640 (3980)	599 (1460)	6.47 (15.70)	2.200 (5.360)	12600 (11600)	4620 (4230)	50.50 (46.20)	17.40 (15.90)				
30	-319 (3500)	-117 (1280)	-1.26 (13.80)	-0.428 (4.700)	6350 (7290)	2320 (2670)	25.30 (29.10)	8.70 (10.00)				
31	807 (571)	295 (209)	3.19 (2.25)	1.080 (0.766)	6240 (5200)	2280 (1900)	24.90 (20.80)	8.53 (7.12)				
Avg	781	286	3.08	1.050	12400	4540	49.6	(17.30)	76	29.3	0.151	0.052
n	11	11	11	11	11	11	11	11	4	4	4	4
SD	663.0	243.0	2.62	0.894	3630.0	1330.0	14.5	(5.27)	51	19.7	0.101	0.035
Min	-319	-117	-1.26	-0.428	6240	2280	24.9	(8.53)	25	9.7	0.050	0.017
Max	1880	688	7.43	2.530	18300	6680	72.9	(25.70)	140	54.1	0.278	0.095

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for January, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9	271 (567)	99 (207)	1.07 (2.24)	0.363 (0.760)	3920 (2750)	1430 (1010)	15.70 (11.00)	5.72 (4.01)				
10	171 (1480)	63 (540)	0.68 (5.84)	0.230 (1.980)	3290 (2260)	1200 (828)	13.20 (9.05)	4.79 (3.30)				
11	322 (401)	118 (147)	1.28 (1.59)	0.432 (0.537)	3170 (2210)	1160 (809)	12.70 (8.84)	4.56 (3.17)				
12	297 (507)	108 (185)	1.17 (2.01)	0.398 (0.680)	3900 (4490)	1430 (1640)	15.60 (18.00)	5.53 (6.38)				
13	584 (815)	214 (298)	2.31 (3.23)	0.783 (1.090)	2780 (2340)	1020 (856)	11.10 (9.36)	3.90 (3.29)				
14	426 (596)	156 (218)	1.69 (2.36)	0.571 (0.799)	3340 (2540)	1220 (930)	13.40 (10.20)	4.63 (3.52)				
15	1770 (1430)	647 (524)	7.01 (5.67)	2.370 (1.920)	2650 (3710)	970 (1360)	10.60 (14.80)	3.63 (5.08)				
16												
17												
18												
19												
20												
21												
22												
23												
24	1300 (1480)	475 (542)	5.16 (5.88)	2.070 (2.360)	1830 (1230)	669 (450)	7.33 (4.93)	2.44 (1.64)				
25	1290 (1600)	472 (586)	5.13 (6.37)	2.060 (2.560)	1070 (867)	393 (317)	4.30 (3.48)	1.44 (1.16)				
26	1260 (1280)	462 (469)	5.01 (5.10)	2.010 (2.040)	1290 (997)	472 (365)	5.17 (3.99)	1.73 (1.33)				
27	1130 (947)	414 (347)	4.50 (3.77)	1.800 (1.510)	1550 (1290)	566 (470)	6.20 (5.15)	2.07 (1.72)				
28	893 (815)	327 (298)	3.55 (3.24)	1.420 (1.300)	1500 (1120)	550 (410)	6.03 (4.49)	2.01 (1.50)				
29	1260 (1600)	460 (584)	5.00 (6.35)	2.000 (2.540)	1090 (985)	399 (360)	4.37 (3.95)	1.46 (1.32)				
30					1840 (2130)	672 (779)	7.36 (8.54)	2.46 (2.85)				
31												
Avg	844	309	3.35	1.270	2370	868	9.5	(3.31)				
n	13	13	13	13	14	14	14	14	0	0	0	0
SD	503.0	184.0	2.00	0.782	997.0	365.0	4.0	(1.48)				
Min	171	63	0.68	0.230	1070	393	4.3	(1.44)				
Max	1770	647	7.01	2.370	3920	1430	15.7	(5.72)				

Table F5. Daily means (SD) of PM10 emissions at site IN2B for February, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1					935 (3290)	342 (1200)	3.75 (13.20)	1.26 (4.42)				
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												
Avg												
n	0	0	0	0	1	1	1	1	0	0	0	0
SD												
Min												
Max												

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for March, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7	24800 (13800)	9070 (5050)	99.60 (55.40)	35.200 (19.600)	4100 (7210)	1500 (2640)	16.50 (29.00)	5.75 (10.10)	298 (728)	115 (281)	0.599 (1.460)	0.211 (0.514)
8	18400 (9860)	6730 (3610)	73.90 (39.60)	26.000 (13.900)	649 (602)	237 (220)	2.61 (2.42)	0.91 (0.85)	13 (62)	5 (24)	0.026 (0.124)	0.009 (0.044)
9	16500 (7730)	6050 (2830)	66.50 (31.00)	23.200 (10.900)	2560 (4640)	936 (1700)	10.30 (18.60)	3.60 (6.52)	82 (264)	31 (102)	0.164 (0.529)	0.057 (0.185)
10	8500 (6090)	3110 (2230)	34.10 (24.50)	11.900 (8.500)	1850 (4120)	677 (1510)	7.43 (16.60)	2.60 (5.80)	30 (107)	11 (41)	0.059 (0.216)	0.021 (0.075)
11	3940 (4780)	1440 (1750)	15.80 (19.20)	5.470 (6.640)	915 (1620)	335 (592)	3.67 (6.50)	1.29 (2.28)	94 (160)	36 (62)	0.189 (0.321)	0.066 (0.112)
12	3570 (5100)	1310 (1870)	14.40 (20.50)	4.940 (7.040)	368 (586)	135 (214)	1.48 (2.36)	0.52 (0.83)	12 (53)	5 (21)	0.024 (0.107)	0.008 (0.037)
13	11500 (11200)	4200 (4100)	46.10 (45.00)	15.700 (15.400)	992 (977)	363 (357)	3.99 (3.92)	1.40 (1.38)	3 (80)	1 (31)	0.006 (0.161)	0.002 (0.056)
14	13300 (8000)	4880 (2930)	53.60 (32.20)	18.300 (11.000)	704 (1540)	257 (563)	2.83 (6.19)	0.99 (2.17)	4 (45)	1 (17)	0.007 (0.091)	0.002 (0.031)
15	6560 (8550)	2400 (3130)	26.40 (34.40)	9.000 (11.700)	351 (362)	128 (133)	1.41 (1.46)	0.50 (0.51)	-12 (26)	-5 (10)	-0.024 (0.053)	-0.008 (0.018)
16	11800 (11800)	4310 (4330)	47.40 (47.60)	16.200 (16.200)	3060 (6610)	1120 (2420)	12.30 (26.50)	4.33 (9.33)	27 (147)	11 (57)	0.055 (0.295)	0.019 (0.102)
17	8050 (7320)	2950 (2680)	32.40 (29.40)	11.100 (10.100)	2070 (4540)	757 (1660)	8.32 (18.30)	2.92 (6.42)	84 (143)	32 (55)	0.168 (0.287)	0.058 (0.100)
18	4910 (7430)	1800 (2720)	19.70 (29.90)	6.750 (10.200)	4270 (7940)	1560 (2900)	17.20 (31.90)	6.04 (11.20)	86 (203)	33 (78)	0.174 (0.407)	0.060 (0.141)
19	10300 (9200)	3790 (3360)	41.60 (37.00)	14.200 (12.700)	3930 (7340)	1440 (2680)	15.80 (29.50)	5.55 (10.40)	46 (151)	18 (58)	0.092 (0.303)	0.032 (0.105)
20	9710 (6010)	3550 (2200)	39.10 (24.20)	13.400 (8.280)	2440 (4990)	893 (1820)	9.82 (20.10)	3.45 (7.05)	51 (190)	20 (73)	0.103 (0.382)	0.036 (0.132)
21	7230 (4380)	2650 (1600)	29.10 (17.60)	9.960 (6.030)	2240 (6790)	820 (2480)	9.02 (27.30)	3.17 (9.60)	68 (281)	26 (108)	0.138 (0.565)	0.048 (0.196)
22	7110 (6120)	2600 (2240)	28.60 (24.60)	9.760 (8.400)	533 (702)	195 (257)	2.14 (2.82)	0.75 (0.99)	23 (213)	9 (82)	0.046 (0.428)	0.016 (0.148)
23	6680 (4310)	2440 (1580)	26.90 (17.40)	9.140 (5.900)	6230 (11800)	2280 (4310)	25.00 (47.40)	8.81 (16.70)	374 (630)	144 (243)	0.753 (1.270)	0.260 (0.438)
24	6930 (7380)	2530 (2700)	27.90 (29.80)	9.450 (10.100)	7920 (26700)	2900 (9760)	31.80 (107.00)	11.20 (37.80)				
25	14300 (9320)	5230 (3410)	57.70 (37.60)	19.400 (12.700)	5160 (12300)	1890 (4480)	20.80 (49.30)	7.31 (17.40)	55 (416)	21 (160)	0.111 (0.837)	0.038 (0.288)
26	7960 (5550)	2910 (2030)	32.10 (22.40)	10.800 (7.520)	3460 (7260)	1270 (2660)	13.90 (29.20)	4.91 (10.30)	230 (726)	89 (280)	0.464 (1.460)	0.160 (0.503)
27	8530 (5160)	3120 (1890)	34.40 (20.80)	11.500 (6.970)	2220 (5190)	811 (1900)	8.92 (20.90)	3.14 (7.35)	101 (470)	39 (181)	0.204 (0.946)	0.070 (0.325)
28	7370 (3520)	2700 (1290)	29.70 (14.20)	9.940 (4.750)	1840 (3550)	673 (1300)	7.40 (14.30)	2.61 (5.04)	125 (211)	48 (81)	0.251 (0.424)	0.086 (0.146)
29	4870 (2880)	1780 (1050)	19.70 (11.60)	6.580 (3.890)	285 (407)	104 (149)	1.15 (1.64)	0.40 (0.58)	25 (64)	9 (25)	0.050 (0.129)	0.017 (0.044)
30	4300 (3310)	1570 (1210)	17.30 (13.30)	5.800 (4.460)	2940 (6220)	1070 (2280)	11.80 (25.00)	4.18 (8.85)	45 (150)	17 (58)	0.090 (0.301)	0.031 (0.104)
31	5630 (5560)	2060 (2030)	22.70 (22.50)	7.600 (7.510)	2150 (4840)	787 (1770)	8.66 (19.50)	3.06 (6.88)	-1 (254)	0 (98)	-0.001 (0.512)	0.000 (0.176)
Avg	9320	3410	37.50	12.900	2530	925	10.2	(3.58)	78	29.9	0.156	0.054
n	25	25	25	25	25	25	25	25	24	24	24	24
SD	4920.0	1800.0	19.80	7.000	1900.0	695.0	7.6	(2.69)	94	36.2	0.189	0.066
Min	3570	1310	14.40	4.940	285	104	1.2	(0.40)	-12	-4.5	-0.024	-0.008
Max	24800	9070	99.60	35.200	7920	2900	31.8	(11.20)	374	144.0	0.753	0.260

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for April, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	6160 (3890)	2250 (1420)	24.90 (15.70)	8.320 (5.250)	2460 (7090)	900 (2590)	9.90 (28.50)	3.51 (10.10)	104 (305)	40 (118)	0.210 (0.615)	0.072 (0.212)
2	8750 (6680)	3200 (2440)	35.40 (27.00)	11.800 (9.020)	6980 (16100)	2550 (5900)	28.10 (64.90)	9.95 (23.00)	189 (699)	73 (269)	0.382 (1.410)	0.131 (0.484)
3	5700 (3660)	2090 (1340)	23.00 (14.80)	7.700 (4.940)	4770 (12800)	1750 (4670)	19.20 (51.40)	6.81 (18.20)	28 (105)	11 (41)	0.057 (0.212)	0.020 (0.073)
4	4630 (5220)	1700 (1910)	18.70 (21.10)	6.270 (7.060)	3190 (6860)	1170 (2510)	12.80 (27.60)	4.55 (9.79)	21 (60)	8 (23)	0.042 (0.121)	0.015 (0.042)
5					293 (446)	107 (163)	1.18 (1.80)	0.42 (0.64)	9 (60)	4 (23)	0.018 (0.120)	0.006 (0.041)
6	3250 (4380)	1190 (1600)	13.10 (17.70)	4.410 (5.940)	4520 (9670)	1650 (3540)	18.20 (38.90)	6.46 (13.80)	22 (55)	8 (21)	0.043 (0.110)	0.015 (0.038)
7	2700 (2000)	989 (731)	10.90 (8.08)	3.680 (2.720)	1900 (5170)	693 (1890)	7.63 (20.80)	2.71 (7.38)	51 (105)	20 (41)	0.103 (0.212)	0.036 (0.073)
8					1620 (5290)	593 (1930)	6.53 (21.30)	2.32 (7.55)	30 (71)	11 (27)	0.060 (0.143)	0.021 (0.049)
9												
10												
11												
12												
13												
14												
15												
16												
17												
18					10900 (24800)	4000 (9070)	44.00 (100.00)	15.50 (35.20)	104 (402)	40 (155)	0.211 (0.812)	0.073 (0.281)
19					-43 (867)	-16 (317)	-0.17 (3.50)	-0.06 (1.23)	-28 (45)	-11 (17)	-0.057 (0.090)	-0.020 (0.031)
20					18100 (50400)	6630 (18400)	73.10 (203.00)	25.80 (71.60)	119 (324)	46 (125)	0.241 (0.654)	0.084 (0.227)
21					6520 (18800)	2380 (6860)	26.30 (75.60)	9.26 (26.70)	101 (202)	39 (78)	0.204 (0.408)	0.071 (0.142)
22					3990 (9920)	1460 (3630)	16.10 (40.00)	5.67 (14.10)	65 (118)	25 (45)	0.132 (0.238)	0.046 (0.083)
23	3610 (3080)	1320 (1130)	14.70 (12.50)	5.020 (4.290)	4220 (7330)	1540 (2680)	17.00 (29.50)	5.99 (10.40)	77 (416)	30 (160)	0.155 (0.841)	0.054 (0.292)
24	7040 (8830)	2580 (3230)	28.60 (35.80)	9.820 (12.300)	20300 (45500)	7410 (16600)	81.70 (183.00)	28.80 (64.70)	288 (528)	111 (204)	0.583 (1.070)	0.203 (0.372)
25	2960 (3140)	1080 (1150)	12.00 (12.80)	4.110 (4.370)	18 (2050)	7 (750)	0.07 (8.27)	0.03 (2.92)	22 (105)	8 (40)	0.044 (0.212)	0.015 (0.074)
26	2130 (3310)	778 (1210)	8.64 (13.40)	2.930 (4.560)	-715 (2490)	-261 (909)	-2.88 (10.00)	-1.02 (3.54)	-18 (128)	-7 (50)	-0.037 (0.260)	-0.013 (0.090)
27	6640 (11400)	2430 (4170)	27.00 (46.30)	9.090 (15.600)	25200 (55100)	9210 (20100)	102.00 (222.00)	35.90 (78.60)	325 (623)	125 (240)	0.657 (1.260)	0.227 (0.436)
28	2410 (8370)	882 (3060)	9.80 (34.00)	3.270 (11.400)	9730 (25700)	3560 (9410)	39.20 (104.00)	13.90 (36.80)	102 (610)	39 (235)	0.206 (1.230)	0.071 (0.425)
29	4820 (11300)	1760 (4130)	19.60 (46.00)	6.500 (15.200)	4780 (12000)	1750 (4390)	19.30 (48.40)	6.85 (17.20)	161 (608)	62 (234)	0.326 (1.230)	0.112 (0.422)
30												
Avg	4680	1710	18.90	6.380	6440	2350	25.9	(9.17)	89	34.1	0.179	0.062
n	13	13	13	13	20	20	20	20	20	20	20	20
SD	1980.0	725.0	8.01	2.690	6970.0	2550.0	28.1	(9.93)	91	35.2	0.185	0.064
Min	2130	778	8.64	2.930	-715	-261	-2.9	-(1.02)	-28	-10.8	-0.057	-0.020
Max	8750	3200	35.40	11.800	25200	9210	102.0	(35.90)	325	125.0	0.657	0.227

ED_001509B_00005068-00174

Table F5. Daily means (SD) of PM10 emissions at site IN2B for May, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	6660 (33900)	2440 (12400)	27.10 (138.00)	8.820 (44.900)	3430 (11500)	1250 (4190)	13.80 (46.20)	4.93 (16.50)	119 (416)	46 (160)	0.240 (0.843)	0.082 (0.287)
2												
3												
4												
5												
6	2480 (5970)	907 (2180)	10.10 (24.30)	3.420 (8.230)	14600 (35700)	5340 (13100)	58.90 (144.00)	21.00 (51.40)	-132 (1020)	-51 (393)	-0.268 (2.070)	-0.093 (0.718)
7	2170 (3500)	794 (1280)	8.84 (14.30)	3.020 (4.880)	6770 (20100)	2480 (7360)	27.30 (81.30)	9.74 (29.00)	324 (743)	125 (287)	0.657 (1.510)	0.229 (0.525)
8	2620 (4470)	957 (1640)	10.70 (18.20)	3.680 (6.300)	2740 (12000)	1000 (4380)	11.10 (48.40)	3.94 (17.20)	-19 (218)	-7 (84)	-0.039 (0.442)	-0.014 (0.155)
9	2510 (2140)	917 (781)	10.20 (8.71)	3.540 (3.020)	7280 (20900)	2660 (7650)	29.40 (84.50)	10.50 (30.10)				
10	1470 (1210)	537 (443)	5.99 (4.94)	2.070 (1.710)	-489 (618)	-179 (226)	-1.98 (2.50)	-0.70 (0.89)				
11	2100 (1930)	769 (706)	8.58 (7.87)	2.950 (2.710)	4670 (12000)	1710 (4400)	18.90 (48.60)	6.71 (17.30)				
12	2600 (2330)	953 (852)	10.60 (9.50)	3.650 (3.260)	4870 (11700)	1780 (4260)	19.70 (47.10)	7.00 (16.70)	1280 (2410)	493 (928)	2.600 (4.880)	0.907 (1.710)
13	1960 (2830)	716 (1030)	7.99 (11.50)	2.730 (3.950)	11700 (33800)	4290 (12400)	47.40 (137.00)	16.90 (48.60)	1650 (4610)	638 (1780)	3.360 (9.350)	1.170 (3.260)
14	4480 (7160)	1640 (2620)	18.30 (29.20)	6.240 (9.980)	6610 (16700)	2420 (6090)	26.70 (67.30)	9.48 (23.90)	171 (433)	66 (167)	0.347 (0.880)	0.121 (0.306)
15	3890 (5200)	1420 (1900)	15.90 (21.30)	5.400 (7.230)	11300 (29900)	4140 (10900)	45.70 (121.00)	16.20 (43.00)	303 (777)	117 (300)	0.615 (1.580)	0.214 (0.548)
16	2230 (3150)	816 (1150)	9.11 (12.90)	3.100 (4.380)	6150 (20400)	2250 (7450)	24.90 (82.40)	8.83 (29.20)	73 (227)	28 (88)	0.147 (0.461)	0.051 (0.160)
17	1420 (1440)	521 (525)	5.82 (5.87)	1.990 (2.010)	-160 (959)	-59 (351)	-0.65 (3.88)	-0.23 (1.38)	9 (52)	4 (20)	0.019 (0.106)	0.007 (0.037)
18	2260 (2250)	826 (822)	9.23 (9.19)	3.170 (3.160)	10400 (23700)	3800 (8690)	42.00 (96.10)	14.90 (34.10)	494 (1480)	190 (570)	1.000 (3.010)	0.351 (1.050)
19	2600 (4540)	950 (1660)	10.60 (18.60)	3.670 (6.410)	13000 (30600)	4760 (11200)	52.70 (124.00)	18.70 (44.10)	606 (1530)	234 (591)	1.230 (3.120)	0.432 (1.090)
20	2990 (7160)	1090 (2620)	12.20 (29.30)	4.240 (10.200)	22100 (55200)	8080 (20200)	89.40 (224.00)	31.80 (79.50)				
21	33200 (63900)	12200 (23400)	136.00 (261.00)	47.400 (91.000)	17400 (46100)	6370 (16800)	70.50 (186.00)	25.10 (66.30)				
22	14000 (47400)	5110 (17300)	57.20 (194.00)	20.000 (67.900)	24100 (74400)	8810 (27200)	97.60 (301.00)	34.70 (107.00)	390 (1110)	150 (428)	0.794 (2.260)	0.280 (0.797)
23	4590 (6420)	1680 (2350)	18.80 (26.30)	6.600 (9.240)	13000 (37300)	4740 (13600)	52.50 (151.00)	18.70 (53.80)				
24	1280 (2550)	469 (933)	5.25 (10.40)	1.840 (3.670)	-2220 (4380)	-812 (1600)	-8.99 (17.70)	-3.21 (6.32)				
25	3400 (3610)	1240 (1320)	13.90 (14.80)	4.890 (5.190)	16300 (43400)	5980 (15900)	66.20 (176.00)	23.70 (62.90)				
26	4850 (8250)	1770 (3020)	19.90 (33.80)	6.980 (11.900)	14600 (35100)	5340 (12800)	59.20 (142.00)	21.20 (50.90)				
27	3720 (5920)	1360 (2170)	15.30 (24.30)	5.360 (8.530)	18000 (48700)	6580 (17800)	72.90 (197.00)	26.20 (70.80)				
28	2030 (2210)	744 (808)	8.34 (9.06)	2.930 (3.180)	19400 (41900)	7110 (15300)	78.70 (170.00)	28.30 (61.00)				
29	3600 (5560)	1320 (2030)	14.80 (22.80)	5.190 (8.000)					210 (548)	81 (211)	0.429 (1.120)	0.153 (0.397)
30	3050 (3190)	1110 (1170)	12.50 (13.10)	4.390 (4.600)					397 (1160)	153 (448)	0.810 (2.370)	0.288 (0.842)
31	1600 (2380)	586 (870)	6.57 (9.75)	2.310 (3.430)					-62 (507)	-24 (195)	-0.126 (1.030)	-0.045 (0.368)
Avg	4440	1620	18.10	6.280	10200	3740	41.4	(14.80)	364	140.0	0.739	0.258
n	27	27	27	27	24	24	24	24	16	16	16	16
SD	6140.0	2240.0	25.10	8.760	7110.0	2600.0	28.8	(10.30)	467	180.0	0.948	0.331
Min	1280	469	5.25	1.840	-2220	-812	-9.0	-(3.21)	-132	-51.0	-0.268	-0.093
Max	33200	12200	136.00	47.400	24100	8810	97.6	(34.70)	1650	638.0	3.360	1.170

ED_001509B_00005068-00175

Table F5. Daily means (SD) of PM10 emissions at site IN2B for June, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	2900 (7100)	1060 (2600)	11.90 (29.20)	4.200 (10.300)					1280 (2820)	492 (1090)	2.600 (5.750)	0.927 (2.050)
2												
3	1550 (1530)	566 (558)	6.36 (6.27)	2.240 (2.210)					118 (320)	46 (123)	0.242 (0.653)	0.086 (0.233)
4												
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24												
25												
26												
27	-2600 (4260)	-951 (1560)	-10.70 (17.60)	-3.730 (6.110)	1320 (17800)	481 (6520)	5.36 (72.60)	1.93 (26.10)	29 (185)	11 (71)	0.059 (0.380)	0.021 (0.134)
28	-3470 (2050)	-1270 (749)	-14.40 (8.47)	-4.970 (2.930)	-3900 (2220)	-1430 (813)	-15.90 (9.06)	-5.70 (3.25)	-6 (30)	-2 (12)	-0.013 (0.062)	-0.005 (0.022)
29	637 (4140)	233 (1510)	2.64 (17.10)	0.912 (5.920)	10600 (26700)	3870 (9780)	43.10 (109.00)	15.50 (39.10)	265 (789)	102 (304)	0.545 (1.620)	0.192 (0.570)
30												
Avg	-197	-72	-0.84	-0.270	2670	976	10.9	(3.90)	336	130.0	0.687	0.244
n	5	5	5	5	3	3	3	3	5	5	5	5
SD	2440.0	894.0	10.10	3.510	5990.0	2190.0	24.4	(8.76)	479	185.0	0.977	0.348
Min	-3470	-1270	-14.40	-4.970	-3900	-1430	-15.9	-(5.70)	-6	-2.4	-0.013	-0.005
Max	2900	1060	11.90	4.200	10600	3870	43.1	(15.50)	1280	492.0	2.600	0.927

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for July, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	1490 (2380)	543 (871)	6.15 (9.86)	2.120 (3.400)	9370 (21300)	3430 (7800)	38.20 (86.90)	13.70 (31.10)	65 (248)	25 (96)	0.133 (0.510)	0.047 (0.179)
2	2360 (2430)	865 (889)	9.79 (10.10)	3.370 (3.470)	8300 (21700)	3040 (7950)	33.80 (88.50)	12.10 (31.70)	57 (232)	22 (89)	0.118 (0.476)	0.041 (0.167)
3												
4												
5												
6												
7	2240 (4370)	820 (1600)	9.30 (18.10)	3.200 (6.220)	14300 (29500)	5230 (10800)	58.30 (121.00)	20.90 (43.20)	68 (280)	26 (108)	0.139 (0.576)	0.049 (0.202)
8	2530 (4440)	925 (1620)	10.50 (18.40)	3.600 (6.330)	3560 (13600)	1300 (4970)	14.50 (55.40)	5.21 (19.90)	87 (441)	34 (170)	0.180 (0.906)	0.063 (0.318)
9	199 (4030)	73 (1470)	0.82 (16.70)	0.283 (5.750)	2660 (16200)	973 (5920)	10.90 (66.10)	3.90 (23.70)	-52 (518)	-20 (200)	-0.107 (1.070)	-0.038 (0.374)
10	5280 (52000)	1930 (19000)	21.90 (216.00)	7.530 (74.100)	1410 (18500)	517 (6770)	5.77 (75.50)	2.07 (27.10)	100 (618)	39 (238)	0.205 (1.270)	0.072 (0.447)
11	-3410 (4130)	-1250 (1510)	-14.10 (17.10)	-4.860 (5.890)	-3000 (7890)	-1100 (2890)	-12.30 (32.20)	-4.40 (11.60)	-32 (231)	-12 (89)	-0.066 (0.475)	-0.023 (0.167)
12	-1310 (2230)	-478 (815)	-5.43 (9.25)	-1.870 (3.180)	-3310 (2250)	-1210 (822)	-13.50 (9.17)	-4.86 (3.30)	-49 (81)	-19 (31)	-0.100 (0.167)	-0.035 (0.059)
13	743 (4580)	272 (1680)	3.08 (19.00)	1.060 (6.550)	-2500 (1860)	-916 (680)	-10.20 (7.59)	-3.68 (2.73)	151 (575)	58 (222)	0.310 (1.180)	0.109 (0.417)
14	947 (3350)	347 (1230)	3.93 (13.90)	1.350 (4.790)	5300 (37100)	1940 (13600)	21.70 (152.00)	7.79 (54.50)	-55 (386)	-21 (149)	-0.114 (0.795)	-0.040 (0.280)
15	-1740 (3150)	-637 (1150)	-7.24 (13.10)	-2.490 (4.510)	3490 (19100)	1280 (6990)	14.30 (78.00)	5.13 (28.10)	271 (1100)	105 (423)	0.558 (2.260)	0.196 (0.794)
16	6 (4370)	2 (1600)	0.03 (18.20)	0.009 (6.260)	627 (9940)	229 (3640)	2.56 (40.60)	0.92 (14.60)	80 (435)	31 (168)	0.165 (0.895)	0.058 (0.315)
17	346 (2750)	126 (1010)	1.44 (11.40)	0.495 (3.940)					-5 (266)	-2 (103)	-0.010 (0.548)	-0.004 (0.193)
18	1230 (7050)	449 (2580)	5.10 (29.30)	1.760 (10.100)	462 (7320)	169 (2680)	1.89 (29.90)	0.68 (10.80)	-29 (187)	-11 (72)	-0.060 (0.386)	-0.021 (0.136)
19	-268 (2310)	-98 (844)	-1.11 (9.60)	-0.385 (3.310)	-1500 (1590)	-548 (581)	-6.13 (6.49)	-2.20 (2.33)	-87 (185)	-34 (71)	-0.180 (0.380)	-0.063 (0.134)
20	1490 (5980)	543 (2190)	6.18 (24.90)	2.130 (8.590)	1870 (9450)	684 (3460)	7.65 (38.60)	2.74 (13.80)	35 (208)	14 (80)	0.073 (0.429)	0.026 (0.151)
21	-241 (5360)	-88 (1960)	-1.00 (22.30)	-0.346 (7.710)	3310 (14500)	1210 (5300)	13.50 (59.30)	4.86 (21.20)	5 (271)	2 (104)	0.009 (0.559)	0.003 (0.197)
22	-192 (3250)	-70 (1190)	-0.80 (13.50)	-0.277 (4.670)	5320 (14400)	1950 (5270)	21.80 (59.00)	7.79 (21.10)	-73 (322)	-28 (124)	-0.151 (0.663)	-0.053 (0.233)
23												
24												
25	712 (3480)	261 (1270)	2.97 (14.50)	1.030 (5.020)	-676 (4020)	-247 (1470)	-2.77 (16.50)	-0.99 (5.88)	-45 (153)	-17 (59)	-0.093 (0.315)	-0.033 (0.111)
26	-654 (952)	-239 (348)	-2.72 (3.97)	-0.943 (1.370)	-2410 (1260)	-880 (460)	-9.85 (5.14)	-3.53 (1.84)	-77 (86)	-30 (33)	-0.159 (0.177)	-0.056 (0.062)
27	-2110 (7940)	-773 (2900)	-8.81 (33.10)	-3.050 (11.500)	-182 (12900)	-67 (4730)	-0.75 (52.90)	-0.27 (19.00)	-116 (562)	-45 (217)	-0.239 (1.160)	-0.084 (0.409)
28	-2360 (6150)	-863 (2250)	-9.83 (25.70)	-3.410 (8.890)	1200 (15900)	438 (5820)	4.90 (65.10)	1.76 (23.40)	24 (459)	9 (177)	0.049 (0.949)	0.017 (0.335)
29	-727 (2400)	-266 (879)	-3.03 (10.00)	-1.050 (3.480)	2300 (12100)	842 (4430)	9.42 (49.60)	3.40 (17.90)	72 (547)	28 (211)	0.148 (1.130)	0.053 (0.400)
30												
31												
Avg	285	104	1.18	0.402	2270	830	9.3	(3.32)	17	6.6	0.035	0.012
n	23	23	23	23	22	22	22	22	23	23	23	23
SD	1850.0	676.0	7.67	2.640	4240.0	1550.0	17.3	(6.19)	88	33.8	0.181	0.064
Min	-3410	-1250	-14.10	-4.860	-3310	-1210	-13.5	-(4.86)	-116	-44.6	-0.239	-0.084
Max	5280	1930	21.90	7.530	14300	5230	58.3	(20.90)	271	105.0	0.558	0.196

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for August, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	345 (2370)	126 (868)	1.44 (9.91)	0.499 (3.440)	1660 (10700)	608 (3900)	6.81 (43.70)	2.47 (15.90)	62 (422)	24 (163)	0.129 (0.872)	0.046 (0.309)
2	-449 (1790)	-164 (655)	-1.88 (7.48)	-0.652 (2.600)	-2190 (1930)	-800 (708)	-8.96 (7.92)	-3.25 (2.88)	-72 (107)	-28 (41)	-0.148 (0.221)	-0.053 (0.078)
3	-498 (4340)	-182 (1590)	-2.08 (18.10)	-0.723 (6.290)	7020 (24900)	2570 (9100)	28.80 (102.00)	10.40 (37.00)	86 (715)	33 (276)	0.177 (1.480)	0.063 (0.525)
4	-1040 (6130)	-381 (2240)	-4.35 (25.60)	-1.510 (8.900)	7450 (27800)	2720 (10200)	30.50 (114.00)	11.10 (41.30)	-5 (542)	-2 (209)	-0.010 (1.120)	-0.004 (0.398)
5	-3050 (4520)	-1110 (1650)	-12.70 (18.90)	-4.430 (6.560)	2690 (23500)	983 (8590)	11.00 (96.30)	4.00 (35.00)	-92 (287)	-36 (111)	-0.191 (0.594)	-0.068 (0.211)
6	465 (2620)	170 (960)	1.94 (11.00)	0.676 (3.820)	5980 (20500)	2190 (7480)	24.50 (83.80)	8.91 (30.40)	-26 (110)	-10 (43)	-0.053 (0.228)	-0.019 (0.081)
7	2900 (2870)	1060 (1050)	12.10 (12.00)	4.220 (4.180)	3430 (12100)	1260 (4440)	14.10 (49.80)	5.11 (18.10)	393 (1820)	152 (704)	0.814 (3.780)	0.289 (1.340)
8	-1730 (3320)	-633 (1210)	-7.24 (13.90)	-2.520 (4.830)	-2950 (2660)	-1080 (972)	-12.10 (10.90)	-4.39 (3.96)	-136 (265)	-52 (102)	-0.281 (0.548)	-0.100 (0.195)
9	-1690 (3000)	-620 (1100)	-7.09 (12.50)	-2.470 (4.360)	-3440 (2830)	-1260 (1030)	-14.10 (11.60)	-5.12 (4.22)	-28 (74)	-11 (29)	-0.057 (0.154)	-0.020 (0.055)
10	27900 (83700)	10200 (30600)	117.00 (350.00)	40.700 (122.000)	6890 (24800)	2520 (9090)	28.30 (102.00)	10.30 (37.10)	208 (444)	80 (171)	0.430 (0.919)	0.153 (0.327)
11	-152 (3240)	-55 (1190)	-0.64 (13.60)	-0.220 (4.710)	4230 (14300)	1550 (5240)	17.40 (58.80)	6.32 (21.40)	39 (168)	15 (65)	0.081 (0.348)	0.029 (0.124)
12	-844 (2980)	-309 (1090)	-3.53 (12.50)	-1.230 (4.330)	9 (7690)	3 (2810)	0.04 (31.60)	0.01 (11.50)	-2 (126)	-1 (49)	-0.005 (0.262)	-0.002 (0.093)
13	1030 (20600)	376 (7530)	4.31 (86.30)	1.500 (30.000)	4160 (17800)	1520 (6500)	17.10 (72.90)	6.23 (26.60)	-42 (406)	-16 (157)	-0.088 (0.842)	-0.031 (0.300)
14	3060 (32400)	1120 (11800)	12.80 (136.00)	4.450 (47.100)					307 (1060)	118 (409)	0.636 (2.200)	0.227 (0.782)
15												
16												
17												
18												
19												
20												
21	1550 (2550)	565 (933)	6.49 (10.70)	2.250 (3.720)	646 (5050)	236 (1850)	2.65 (20.80)	0.98 (7.66)	46 (304)	18 (117)	0.095 (0.632)	0.034 (0.226)
22	619 (2130)	226 (778)	2.60 (8.93)	0.902 (3.100)	250 (4010)	92 (1470)	1.03 (16.50)	0.38 (6.09)	-22 (57)	-8 (22)	-0.045 (0.118)	-0.016 (0.042)
23	117 (2370)	43 (867)	0.49 (9.95)	0.170 (3.450)	-1500 (1420)	-549 (521)	-6.17 (5.86)	-2.27 (2.16)	-51 (337)	-20 (130)	-0.105 (0.700)	-0.038 (0.250)
24	333 (2990)	122 (1090)	1.40 (12.60)	0.485 (4.350)	-1300 (3420)	-474 (1250)	-5.33 (14.10)	-1.96 (5.17)	-1 (150)	0 (58)	-0.002 (0.312)	-0.001 (0.111)
25	1680 (4200)	616 (1530)	7.08 (17.60)	2.450 (6.110)	-1870 (1920)	-683 (703)	-7.68 (7.90)	-2.82 (2.90)	169 (806)	65 (311)	0.351 (1.680)	0.125 (0.597)
26	465 (2420)	170 (884)	1.95 (10.20)	0.677 (3.520)	-384 (5430)	-140 (1990)	-1.58 (22.40)	-0.58 (8.18)	26 (107)	10 (41)	0.054 (0.223)	0.019 (0.080)
27									58 (185)	23 (71)	0.122 (0.385)	0.043 (0.137)
28	2750 (11000)	1000 (4040)	11.60 (46.40)	4.000 (16.100)					-4 (131)	-2 (51)	-0.008 (0.273)	-0.003 (0.097)
29	3140 (10900)	1150 (3970)	13.20 (45.70)	4.580 (15.800)					-19 (168)	-7 (65)	-0.039 (0.350)	-0.014 (0.124)
30	-1270 (1130)	-466 (414)	-5.36 (4.76)	-1.850 (1.640)					-21 (65)	-8 (25)	-0.044 (0.135)	-0.016 (0.048)
31	1880 (5770)	689 (2110)	7.94 (24.30)	2.740 (8.380)					0 (116)	0 (45)	-0.001 (0.242)	0.000 (0.086)
Avg	1560	572	6.56	2.280	1620	593	6.6	(2.41)	35	13.5	0.072	0.026
n	24	24	24	24	19	19	19	19	25	25	25	25
SD	5730.0	2090.0	24.00	8.330	3470.0	1270.0	14.2	(5.17)	118	45.5	0.244	0.087
Min	-3050	-1110	-12.70	-4.430	-3440	-1260	-14.1	-(5.12)	-136	-52.3	-0.281	-0.100
Max	27900	10200	117.00	40.700	7450	2720	30.5	(11.10)	393	152.0	0.814	0.289

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for September, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	2770 (8210)	1010 (3000)	11.70 (34.60)	4.030 (11.900)					57 (478)	22 (184)	0.120 (0.996)	0.042 (0.353)
2	1130 (1890)	414 (691)	4.77 (7.96)	1.640 (2.740)					-27 (139)	-10 (54)	-0.055 (0.290)	-0.020 (0.103)
3												
4												
5												
6												
7												
8												
9												
10												
11	373 (3020)	137 (1100)	1.58 (12.70)	0.542 (4.380)	274 (5870)	100 (2150)	1.13 (24.20)	0.41 (8.70)	-78 (189)	-30 (73)	-0.162 (0.394)	-0.057 (0.138)
12	2230 (10100)	817 (3710)	9.44 (42.90)	3.240 (14.700)	754 (6180)	276 (2260)	3.11 (25.50)	1.12 (9.18)	-21 (175)	-8 (68)	-0.045 (0.366)	-0.016 (0.129)
13	-813 (1920)	-297 (701)	-3.44 (8.10)	-1.180 (2.780)	-2090 (2550)	-765 (932)	-8.62 (10.50)	-3.11 (3.79)	-73 (119)	-28 (46)	-0.153 (0.249)	-0.054 (0.088)
14	-232 (2250)	-85 (821)	-0.98 (9.49)	-0.336 (3.260)	6390 (20600)	2340 (7520)	26.30 (84.80)	9.52 (30.70)	-4 (139)	-1 (54)	-0.008 (0.291)	-0.003 (0.103)
15	-835 (1950)	-305 (712)	-3.53 (8.24)	-1.210 (2.830)	312 (7670)	114 (2810)	1.29 (31.60)	0.47 (11.50)	61 (350)	23 (135)	0.126 (0.731)	0.045 (0.258)
16	1120 (2030)	408 (743)	4.72 (8.60)	1.620 (2.950)	3290 (8330)	1200 (3050)	13.60 (34.40)	4.92 (12.50)	-2 (130)	-1 (50)	-0.003 (0.271)	-0.001 (0.096)
17	1450 (1500)	531 (550)	6.14 (6.36)	2.110 (2.180)	2590 (6410)	947 (2340)	10.70 (26.50)	3.89 (9.63)	13 (221)	5 (85)	0.027 (0.462)	0.010 (0.163)
18												
19	1300 (1930)	476 (706)	5.51 (8.17)	1.890 (2.800)	2430 (7430)	889 (2720)	10.00 (30.70)	3.66 (11.20)	5 (309)	2 (119)	0.010 (0.647)	0.003 (0.229)
20	848 (831)	310 (304)	3.59 (3.52)	1.230 (1.210)	-169 (371)	-62 (136)	-0.70 (1.53)	-0.26 (0.56)	-97 (183)	-38 (71)	-0.203 (0.383)	-0.072 (0.136)
21												
22	-222 (2370)	-81 (868)	-0.94 (10.00)	-0.324 (3.460)	1100 (5850)	402 (2140)	4.54 (24.20)	1.65 (8.79)	328 (865)	127 (334)	0.687 (1.810)	0.243 (0.640)
23	-1010 (2590)	-370 (946)	-4.28 (11.00)	-1.480 (3.780)	-1040 (5080)	-382 (1860)	-4.31 (21.00)	-1.56 (7.62)				
24	1560 (1880)	569 (688)	6.60 (7.97)	2.280 (2.750)	2740 (4860)	1000 (1780)	11.30 (20.10)	4.10 (7.28)				
25	2560 (3160)	937 (1150)	10.90 (13.40)	3.750 (4.620)	2610 (5400)	956 (1980)	10.80 (22.30)	3.91 (8.08)	803 (2200)	310 (847)	1.680 (4.600)	0.595 (1.630)
26	142 (1620)	52 (594)	0.60 (6.89)	0.208 (2.380)	274 (3690)	100 (1350)	1.13 (15.20)	0.41 (5.51)	114 (1050)	44 (407)	0.238 (2.210)	0.084 (0.781)
27	902 (3840)	330 (1400)	3.83 (16.30)	1.320 (5.630)	-974 (884)	-356 (323)	-4.03 (3.65)	-1.45 (1.32)	-82 (216)	-32 (83)	-0.172 (0.452)	-0.061 (0.159)
28	2460 (2790)	900 (1020)	10.40 (11.80)	3.610 (4.090)	4460 (8320)	1630 (3040)	18.40 (34.40)	6.62 (12.40)	653 (1470)	252 (566)	1.370 (3.070)	0.482 (1.080)
29	2250 (2020)	824 (738)	9.56 (8.57)	3.300 (2.960)	2070 (4720)	759 (1730)	8.58 (19.50)	3.07 (7.00)	108 (390)	42 (151)	0.226 (0.818)	0.080 (0.288)
30	1180 (1080)	433 (393)	5.03 (4.57)	1.740 (1.580)	1170 (3520)	427 (1290)	4.83 (14.50)	1.73 (5.20)	99 (396)	38 (153)	0.206 (0.830)	0.073 (0.291)
Avg	959	351	4.06	1.400	1450	532	6.0	(2.17)	103	39.8	0.216	0.076
n	20	20	20	20	18	18	18	18	18	18	18	18
SD	1150.0	420.0	4.85	1.670	2030.0	744.0	8.4	(3.03)	242	93.5	0.507	0.179
Min	-1010	-370	-4.28	-1.480	-2090	-765	-8.6	-(3.11)	-97	-37.5	-0.203	-0.072
Max	2770	1010	11.70	4.030	6390	2340	26.3	(9.52)	803	310.0	1.680	0.595

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for October, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	1860 (2560)	680 (937)	7.90 (10.90)	2.730 (3.750)	1930 (5480)	707 (2010)	7.99 (22.70)	2.85 (8.08)				
2	10400 (60100)	3810 (22000)	44.30 (255.00)	15.300 (88.000)	2690 (6320)	983 (2310)	11.10 (26.20)	3.95 (9.30)	499 (1300)	192 (500)	1.050 (2.720)	0.366 (0.951)
3	2730 (3600)	999 (1320)	11.60 (15.30)	4.010 (5.290)	2540 (5940)	927 (2170)	10.50 (24.60)	3.72 (8.71)	103 (331)	40 (128)	0.216 (0.695)	0.076 (0.243)
4	1410 (1790)	517 (654)	6.01 (7.60)	2.080 (2.630)	125 (440)	46 (161)	0.52 (1.82)	0.18 (0.65)	-16 (102)	-6 (39)	-0.033 (0.214)	-0.012 (0.075)
5	1320 (2800)	484 (1030)	5.62 (11.90)	1.950 (4.150)	2700 (6490)	988 (2370)	11.20 (26.80)	3.96 (9.51)	289 (871)	111 (336)	0.606 (1.830)	0.213 (0.641)
6	1330 (3360)	488 (1230)	5.67 (14.30)	1.980 (4.980)	1490 (3830)	546 (1400)	6.18 (15.80)	2.19 (5.61)	124 (710)	48 (274)	0.260 (1.490)	0.091 (0.523)
7	1510 (3580)	554 (1310)	6.44 (15.20)	2.250 (5.330)	2050 (5100)	749 (1870)	8.48 (21.10)	3.00 (7.46)	172 (695)	66 (268)	0.360 (1.460)	0.127 (0.513)
8	1110 (2690)	404 (986)	4.70 (11.50)	1.650 (4.020)	2380 (6380)	871 (2340)	9.85 (26.40)	3.48 (9.33)	533 (1990)	206 (766)	1.120 (4.170)	0.394 (1.470)
9												
10												
11												
12												
13												
14												
15												
16												
17	1670 (2220)	611 (811)	7.13 (9.46)	2.470 (3.280)	1380 (3630)	505 (1330)	5.73 (15.00)	1.98 (5.19)	342 (1150)	132 (445)	0.719 (2.430)	0.249 (0.839)
18	1680 (8830)	616 (3230)	7.19 (37.70)	2.480 (13.000)	-278 (2320)	-102 (847)	-1.15 (9.60)	-0.40 (3.32)	-78 (91)	-30 (35)	-0.163 (0.191)	-0.056 (0.066)
19	161 (2720)	59 (995)	0.69 (11.60)	0.237 (4.000)	2270 (6710)	831 (2460)	9.42 (27.80)	3.25 (9.62)	97 (1190)	38 (458)	0.205 (2.500)	0.071 (0.861)
20	166 (3090)	61 (1130)	0.71 (13.20)	0.245 (4.530)	4530 (23600)	1660 (8620)	18.80 (97.70)	6.49 (33.80)	170 (1080)	66 (416)	0.359 (2.270)	0.124 (0.783)
21	-132 (3520)	-48 (1290)	-0.56 (15.10)	-0.192 (5.150)	693 (6720)	253 (2460)	2.87 (27.90)	0.99 (9.65)	495 (1810)	191 (697)	1.040 (3.800)	0.359 (1.310)
22	968 (2820)	354 (1030)	4.14 (12.00)	1.410 (4.110)	5250 (12900)	1920 (4720)	21.80 (53.60)	7.55 (18.60)	201 (944)	77 (364)	0.423 (1.990)	0.145 (0.683)
23					4310 (10600)	1580 (3870)	17.90 (43.90)	6.20 (15.20)	451 (1680)	174 (649)	0.950 (3.540)	0.326 (1.220)
24					2970 (6430)	1090 (2350)	12.30 (26.70)	4.28 (9.26)	148 (562)	57 (217)	0.312 (1.180)	0.107 (0.406)
25	197 (2070)	72 (756)	0.84 (8.85)	0.286 (3.000)	-140 (809)	-51 (296)	-0.58 (3.36)	-0.20 (1.16)	-16 (907)	-6 (350)	-0.033 (1.910)	-0.012 (0.655)
26												
27												
28	800 (1300)	293 (477)	3.43 (5.58)	1.160 (1.890)	2790 (6540)	1020 (2390)	11.60 (27.10)	4.00 (9.36)	1 (206)	0 (79)	0.001 (0.434)	0.000 (0.148)
29	1030 (928)	377 (339)	4.42 (3.98)	1.500 (1.350)	3190 (7530)	1170 (2760)	13.30 (31.30)	4.57 (10.80)	163 (678)	63 (262)	0.343 (1.430)	0.117 (0.489)
30	449 (1320)	164 (483)	1.92 (5.65)	0.653 (1.920)	2620 (7110)	960 (2600)	10.90 (29.50)	3.75 (10.20)	165 (1780)	64 (686)	0.349 (3.750)	0.119 (1.280)
31					3570 (7960)	1310 (2910)	14.80 (33.10)	5.10 (11.40)	160 (548)	62 (211)	0.339 (1.160)	0.116 (0.395)
Avg	1590	583	6.78	2.340	2340	855	9.7	(3.38)	200	77.2	0.421	0.146
n	18	18	18	18	21	21	21	21	20	20	20	20
SD	2250.0	824.0	9.57	3.300	1430.0	523.0	5.9	(2.05)	176	68.1	0.371	0.129
Min	-132	-48	-0.56	-0.192	-278	-102	-1.2	-(0.40)	-78	-29.9	-0.163	-0.056
Max	10400	3810	44.30	15.300	5250	1920	21.8	(7.55)	533	206.0	1.120	0.394

Table F5. Daily means (SD) of PM10 emissions at site IN2B for November, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	295 (1140)	108 (415)	1.26 (4.87)	0.431 (1.660)	106 (794)	39 (291)	0.44 (3.30)	0.15 (1.14)	-64 (155)	-25 (60)	-0.135 (0.328)	-0.046 (0.112)
2	649 (1360)	237 (497)	2.78 (5.83)	0.950 (1.990)	5630 (12300)	2060 (4480)	23.40 (50.90)	8.06 (17.50)	516 (1430)	199 (551)	1.090 (3.020)	0.373 (1.040)
3	730 (1200)	267 (437)	3.13 (5.13)	1.070 (1.760)	2490 (5080)	910 (1860)	10.30 (21.10)	3.57 (7.28)	40 (185)	15 (71)	0.083 (0.390)	0.029 (0.134)
4	249 (943)	91 (345)	1.07 (4.05)	0.367 (1.390)	2320 (6360)	850 (2330)	9.66 (26.50)	3.34 (9.13)	12 (425)	5 (164)	0.025 (0.899)	0.009 (0.309)
5	574 (836)	210 (306)	2.47 (3.59)	0.848 (1.230)	3370 (8660)	1230 (3170)	14.00 (36.00)	4.84 (12.40)	78 (234)	30 (90)	0.164 (0.494)	0.057 (0.170)
6	622 (1510)	227 (553)	2.67 (6.50)	0.920 (2.240)					135 (810)	52 (312)	0.285 (1.710)	0.098 (0.590)
7	844 (3510)	309 (1280)	3.63 (15.10)	1.250 (5.210)					4 (100)	2 (39)	0.009 (0.211)	0.003 (0.073)
8	-175 (1580)	-64 (577)	-0.75 (6.78)	-0.261 (2.350)					-105 (140)	-40 (54)	-0.222 (0.296)	-0.077 (0.102)
9	1220 (3410)	447 (1250)	5.25 (14.70)	1.820 (5.080)					57 (196)	22 (76)	0.121 (0.416)	0.042 (0.144)
10	1280 (2150)	468 (787)	5.50 (9.25)	1.910 (3.210)					95 (370)	37 (143)	0.200 (0.783)	0.069 (0.271)
11	1450 (3520)	531 (1290)	6.25 (15.20)	2.180 (5.280)					1160 (3440)	446 (1330)	2.440 (7.290)	0.846 (2.520)
12												
13												
14												
15												
16					17600 (37400)	6420 (13700)	73.10 (156.00)	25.10 (53.50)				
17					7400 (16200)	2710 (5920)	30.80 (67.50)	10.60 (23.10)				
18					3610 (8860)	1320 (3240)	15.00 (36.90)	5.15 (12.70)				
19					5710 (12600)	2090 (4620)	23.80 (52.70)	8.15 (18.00)	112 (393)	43 (152)	0.237 (0.833)	0.081 (0.284)
20	1110 (1240)	406 (452)	4.80 (5.34)	1.610 (1.800)	6800 (15000)	2490 (5480)	28.30 (62.40)	9.71 (21.40)	53 (154)	21 (59)	0.113 (0.326)	0.039 (0.111)
21	1010 (1230)	369 (449)	4.35 (5.31)	1.460 (1.780)	6330 (14100)	2320 (5150)	26.40 (58.70)	9.05 (20.10)	358 (1150)	138 (443)	0.760 (2.440)	0.258 (0.827)
22	1140 (960)	418 (351)	4.93 (4.15)	1.650 (1.390)	871 (1120)	318 (409)	3.63 (4.66)	1.25 (1.60)	326 (1180)	126 (455)	0.692 (2.500)	0.235 (0.850)
23	1570 (1350)	574 (493)	6.78 (5.82)	2.270 (1.950)	11500 (22000)	4200 (8040)	47.90 (91.70)	16.50 (31.50)	668 (1950)	258 (753)	1.420 (4.140)	0.481 (1.410)
24	1540 (1390)	565 (509)	6.67 (6.01)	2.240 (2.020)	7150 (12900)	2620 (4700)	29.80 (53.60)	10.30 (18.40)	635 (1860)	245 (718)	1.350 (3.950)	0.457 (1.340)
25	1400 (1130)	512 (412)	6.05 (4.87)	2.030 (1.630)	7520 (15800)	2750 (5790)	31.40 (66.10)	10.80 (22.70)	594 (1950)	229 (751)	1.260 (4.130)	0.429 (1.400)
26	1340 (861)	489 (315)	5.78 (3.72)	1.940 (1.250)	9940 (23000)	3640 (8400)	41.50 (95.90)	14.30 (33.00)	138 (311)	53 (120)	0.294 (0.661)	0.100 (0.225)
27	1360 (902)	497 (330)	5.87 (3.90)	1.970 (1.310)	7090 (15200)	2590 (5560)	29.60 (63.40)	10.20 (21.90)	103 (281)	40 (108)	0.219 (0.597)	0.075 (0.203)
28	639 (805)	234 (294)	2.77 (3.48)	0.928 (1.170)	6540 (14200)	2390 (5210)	27.30 (59.50)	9.49 (20.70)	291 (1260)	112 (486)	0.619 (2.680)	0.211 (0.915)
29	808 (959)	296 (351)	3.50 (4.15)	1.170 (1.390)	1850 (2320)	676 (848)	7.72 (9.68)	2.74 (3.43)	2 (31)	1 (12)	0.004 (0.066)	0.001 (0.023)
30	1190 (1100)	435 (401)	5.15 (4.75)	1.730 (1.590)	9010 (15800)	3290 (5770)	37.60 (65.90)	13.60 (23.90)	152 (398)	59 (153)	0.323 (0.846)	0.113 (0.295)
Avg	947	346	4.09	1.390	6140	2250	25.6	(8.84)	233	89.8	0.494	0.169
n	22	22	22	22	20	20	20	20	23	23	23	23
SD	453.0	166.0	1.96	0.662	3950.0	1450.0	16.5	(5.68)	295	114.0	0.624	0.214
Min	-175	-64	-0.75	-0.261	106	39	0.4	(0.15)	-105	-40.4	-0.222	-0.077
Max	1570	574	6.78	2.270	17600	6420	73.1	(25.10)	1160	446.0	2.440	0.846

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Table F5. Daily means (SD) of PM10 emissions at site IN2B for December, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	798 (1130)	292 (414)	3.46 (4.90)	1.160 (1.650)	10100 (16800)	3700 (6130)	42.30 (70.00)	15.60 (25.90)	55 (155)	21 (60)	0.117 (0.331)	0.041 (0.116)
2	1040 (858)	381 (314)	4.52 (3.72)	1.520 (1.250)	8120 (17600)	2970 (6420)	33.90 (73.30)	12.80 (27.70)	71 (279)	27 (108)	0.151 (0.594)	0.054 (0.212)
3	933 (755)	341 (276)	4.05 (3.27)	1.360 (1.100)	12600 (24600)	4620 (9010)	52.80 (103.00)	20.40 (39.70)	123 (379)	47 (146)	0.262 (0.806)	0.094 (0.290)
4	488 (2300)	179 (842)	2.12 (9.98)	0.712 (3.360)	6350 (14300)	2320 (5220)	26.50 (59.70)	10.50 (23.50)	37 (100)	14 (39)	0.078 (0.214)	0.029 (0.078)
5	115 (1400)	42 (511)	0.50 (6.06)	0.168 (2.040)	1840 (1130)	672 (414)	7.68 (4.73)	3.07 (1.89)	8 (60)	3 (23)	0.017 (0.127)	0.006 (0.047)
6	-294 (519)	-108 (190)	-1.28 (2.25)	-0.428 (0.755)	1170 (680)	426 (249)	4.87 (2.84)	1.95 (1.14)	-36 (41)	-14 (16)	-0.077 (0.087)	-0.028 (0.032)
7												
8												
9												
10	496 (733)	181 (268)	2.15 (3.19)	0.719 (1.060)	5360 (11800)	1960 (4320)	22.40 (49.40)	8.97 (19.80)	35 (88)	13 (34)	0.074 (0.188)	0.027 (0.069)
11	367 (570)	134 (208)	1.60 (2.48)	0.532 (0.826)	4320 (16600)	1580 (6060)	18.10 (69.30)	7.24 (27.70)	4 (103)	2 (40)	0.010 (0.220)	0.003 (0.080)
12	46 (436)	17 (159)	0.20 (1.89)	0.067 (0.631)	1400 (1180)	511 (431)	5.85 (4.93)	2.34 (1.97)	-103 (122)	-40 (47)	-0.220 (0.260)	-0.080 (0.095)
13					2270 (2250)	830 (822)	9.50 (9.42)	3.80 (3.77)	-44 (42)	-17 (16)	-0.093 (0.090)	-0.034 (0.033)
14	187 (530)	68 (194)	0.81 (2.30)	0.270 (0.766)	3750 (4730)	1370 (1730)	15.70 (19.80)	6.29 (7.93)	66 (268)	25 (103)	0.140 (0.572)	0.051 (0.208)
15	288 (414)	105 (151)	1.25 (1.80)	0.416 (0.597)	2360 (5740)	864 (2100)	9.89 (24.00)	3.97 (9.63)	16 (47)	6 (18)	0.034 (0.100)	0.012 (0.037)
16	67 (284)	25 (104)	0.29 (1.23)	0.097 (0.409)	1520 (978)	554 (358)	6.35 (4.10)	2.55 (1.64)	-1 (13)	0 (5)	-0.003 (0.029)	-0.001 (0.010)
17	177 (1510)	65 (554)	0.77 (6.59)	0.254 (2.180)	2910 (4600)	1060 (1680)	12.20 (19.30)	4.89 (7.73)	-15 (123)	-6 (47)	-0.032 (0.263)	-0.012 (0.096)
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	362	133	1.57	0.527	4580	1680	19.2	(7.46)	15	5.9	0.033	0.012
n	13	13	13	13	14	14	14	14	14	14	14	14
SD	368.0	135.0	1.60	0.536	3430.0	1250.0	14.3	(5.40)	54	20.9	0.115	0.042
Min	-294	-108	-1.28	-0.428	1170	426	4.9	(1.95)	-103	-39.8	-0.220	-0.080
Max	1040	381	4.52	1.520	12600	4620	52.8	(20.40)	123	47.4	0.262	0.094

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Table F6. PM 2.5 concentrations.

Table F6. Daily means (SD) of PM2.5 concentrations at site IN2B for April, 2008.

Date	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12	117 (557)		72 (270)		112 (85)	13 (8)
13	125 (551)		-6 (128)		1200 (2040)	12 (6)
14	130 (519)		44 (215)		77 (70)	13 (7)
15	3 (434)		45 (202)		2150 (3360)	110 (197)
16	20 (321)		69 (269)		43 (188)	63 (89)
17	59 (302)		33 (215)		1040 (1520)	66 (82)
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
Avg	76		43		770	46
n	6	0	6	0	6	6
SD	51.3		25.7		775.0	36.7
Min	3		-6		43	12
Max	130		72		2150	110

ED_001509B_00005068-00183

Table F6. Daily means (SD) of PM2.5 concentrations at site IN2B for February, 2009.

Date	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14	10 (12)				15 (26)	
15	12 (15)				19 (24)	
16	6 (15)				4 (29)	
17	12 (16)				117 (220)	
18	11 (17)				14 (21)	
19	1 (9)				27 (37)	
20	7 (7)				62 (1)	
21	11 (9)				58 (1)	
22	10 (7)	125 (54)	-18 (103)	45 (27)	55 (1)	22 (7)
23	15 (12)	173 (57)	-15 (35)	35 (30)	51 (1)	29 (10)
24	14 (8)	92 (58)	-25 (30)	39 (38)	48 (1)	30 (7)
25	32 (276)	-4 (25)	-23 (36)	34 (27)	45 (1)	28 (9)
26	24 (15)	64 (160)	-18 (31)	159 (130)	41 (1)	34 (13)
27	7 (3)	246 (92)	-32 (11)	239 (93)	38 (1)	22 (8)
28	7 (2)	235 (73)	-32 (6)	251 (83)	34 (1)	26 (5)
Avg	12	133	-23	115	42	28
n	15	7	7	7	15	7
SD	7.2	84.5	6.4	92.1	26.3	3.9
Min	1	-4	-32	34	4	22
Max	32	246	-15	251	117	34

Table F6. Daily means (SD) of PM2.5 concentrations at site IN2B for March, 2009.

Date	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	7 (3)	102 (53)	75 (2150)	275 (89)	31 (1)	19 (5)
2	5 (3)	12 (36)	-30 (13)	316 (119)	27 (1)	21 (8)
3	7 (4)	-13 (36)	-34 (13)	268 (87)	24 (1)	23 (8)
4	27 (32)	-28 (62)	-34 (15)	202 (74)	24 (36)	22 (9)
5	116 (87)	-37 (49)	-28 (27)	164 (59)	18 (18)	
6	94 (60)					
7	97 (72)					
8	18 (15)					
9	46 (31)					
10	67 (70)					
11	11 (17)					
12	46 (36)					
13	39 (32)					
14	42 (23)					
15	37 (21)					
16	107 (109)					
17	117 (82)					
18	132 (86)					
19	78 (60)					
20	48 (43)					
21	118 (112)					
22	66 (70)					
23	24 (20)					
24	47 (27)					
25	90 (91)					
26	84 (95)					
27	86 (101)					
28	29 (18)					
29	11 (39)					
30	55 (86)					
31	39 (63)					
Avg	58	7	-10	245	25	21
n	31	5	5	5	5	4
SD	37.3	50.4	42.9	54.5	4.2	1.6
Min	5	-37	-34	164	18	19
Max	132	102	75	316	31	23

ED_001509B_00005068-00185

Table F6. Daily means (SD) of PM2.5 concentrations at site IN2B for April, 2009.

Date	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1	59 (62)					
2	50 (27)					
3	27 (17)					
4	46 (33)					
5	22 (14)					
6	25 (23)					
7	21 (18)					
8	48 (30)					
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
Avg	37					
n	8	0	0	0	0	0
SD	14.0					
Min	21					
Max	59					

Table F6. Daily means (SD) of PM2.5 concentrations at site IN2B for June, 2009.

Date	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13		-21 (30)	6 (13)	-14 (23)	11 (6)	2 (10)
14		-21 (16)	8 (10)	-16 (19)	51 (65)	4 (7)
15		-17 (28)	13 (19)	4 (46)	33 (26)	2 (7)
16		-11 (42)	28 (34)	9 (41)	48 (54)	12 (12)
17		187 (4200)	21 (28)	4 (38)	42 (69)	26 (24)
18		-12 (33)	17 (25)	-1 (35)	33 (28)	23 (21)
19		-21 (89)	4 (32)	-7 (39)	30 (35)	11 (26)
20		-29 (20)	5 (24)	-13 (26)	14 (6)	15 (13)
21		-24 (27)	8 (34)	-15 (27)	46 (49)	22 (10)
22		-12 (34)	18 (27)	9 (43)	54 (59)	23 (11)
23		-18 (46)	13 (37)	9 (85)	-474 (2750)	20 (11)
24		-25 (31)	-1 (36)	-9 (40)	23 (20)	27 (28)
25		-29 (18)	3 (16)	-17 (14)	83 (241)	18 (14)
26						
27						
28						
29						
30						
Avg		-4	11	-4	0	16
n	0	13	13	13	13	13
SD		55.5	8.0	10.0	138.0	8.6
Min		-29	-1	-17	-474	2
Max		187	28	9	83	27

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Table F7. PM 2.5 emissions.

Table F7. Daily means (SD) of PM2.5 emissions at site IN2B for April, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
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6												
7												
8												
9												
10												
11												
12					598 (2130)	219 (780)	2.39 (8.52)	0.80 (2.87)	5 (5)	2 (2)	0.010 (0.010)	0.003 (0.004)
13					-41 (884)	-15 (323)	-0.16 (3.53)	-0.06 (1.19)	8 (10)	3 (4)	0.017 (0.020)	0.006 (0.007)
14					320 (1530)	117 (561)	1.28 (6.14)	0.43 (2.06)	5 (7)	2 (3)	0.009 (0.014)	0.003 (0.005)
15					311 (1660)	114 (608)	1.24 (6.65)	0.42 (2.23)	143 (305)	55 (117)	0.280 (0.596)	0.096 (0.204)
16					529 (4130)	194 (1510)	2.12 (16.50)	0.71 (5.54)	252 (426)	97 (164)	0.493 (0.834)	0.168 (0.285)
17					688 (5100)	252 (1870)	2.75 (20.40)	0.92 (6.84)	321 (1280)	124 (493)	0.627 (2.500)	0.214 (0.855)
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19												
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26												
27												
28												
29												
30												
Avg					401	147	1.6	(0.54)	122	47.2	0.239	0.082
n	0	0	0	0	6	6	6	6	6	6	6	6
SD					241.0	88.1	1.0	(0.32)	127	49.0	0.249	0.085
Min					-41	-15	-0.2	-(0.06)	5	1.9	0.009	0.003
Max					688	252	2.8	(0.92)	321	124.0	0.627	0.214

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Table F7. Daily means (SD) of PM2.5 emissions at site IN2B for February, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
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21												
22	621 (254)	227 (93)	2.49 (1.02)	0.960 (0.392)	-72 (390)	-26 (143)	-0.29 (1.57)	-0.10 (0.54)	14 (10)	5 (4)	0.028 (0.021)	0.010 (0.008)
23	908 (267)	332 (98)	3.64 (1.07)	1.400 (0.411)	-73 (172)	-27 (63)	-0.29 (0.69)	-0.10 (0.24)	13 (13)	5 (5)	0.026 (0.026)	0.009 (0.010)
24	505 (309)	185 (113)	2.02 (1.24)	0.773 (0.474)	-119 (149)	-44 (55)	-0.48 (0.60)	-0.16 (0.21)	104 (59)	40 (23)	0.209 (0.118)	0.075 (0.043)
25	-31 (180)	-11 (66)	-0.12 (0.72)	-0.047 (0.275)	-126 (232)	-46 (85)	-0.51 (0.93)	-0.17 (0.32)	65 (38)	25 (15)	0.130 (0.076)	0.047 (0.027)
26	548 (1380)	200 (504)	2.20 (5.52)	0.830 (2.090)	-106 (196)	-39 (72)	-0.43 (0.79)	-0.15 (0.27)	100 (101)	39 (39)	0.201 (0.204)	0.072 (0.073)
27	1390 (434)	508 (159)	5.57 (1.74)	2.090 (0.656)	-199 (81)	-73 (30)	-0.80 (0.33)	-0.27 (0.11)	17 (24)	7 (9)	0.034 (0.048)	0.012 (0.017)
28	1250 (343)	457 (125)	5.01 (1.37)	1.870 (0.514)	-171 (39)	-63 (14)	-0.69 (0.16)	-0.24 (0.05)	76 (56)	29 (21)	0.153 (0.111)	0.055 (0.040)
Avg	741	271.0	2.97	1.130	-124	-45	-0.5	-(0.17)	56	21.4	0.111	0.040
n	7	7	7	7	7	7	7	7	7	7	7	7
SD	448.0	164.0	1.80	0.675	44.0	16.1	0.2	(0.06)	38	14.5	0.076	0.027
Min	-31	-11.2	-0.12	-0.047	-199	-73	-0.8	-(0.27)	13	5.0	0.026	0.009
Max	1390	508.0	5.57	2.090	-72	-26	-0.3	-(0.10)	104	40.1	0.209	0.075

ED_001509B_00005068-00189

Table F7. Daily means (SD) of PM2.5 emissions at site IN2B for March, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1	570 (299)	208 (109)	2.29 (1.20)	0.848 (0.446)	76 (2510)	28 (916)	0.31 (10.10)	0.11 (3.46)	42 (37)	16 (14)	0.084 (0.074)	0.030 (0.026)
2	64 (199)	23 (73)	0.26 (0.80)	0.095 (0.294)	-135 (63)	-49 (23)	-0.54 (0.25)	-0.19 (0.09)	41 (33)	16 (13)	0.081 (0.066)	0.029 (0.024)
3	-69 (189)	-25 (69)	-0.28 (0.76)	-0.101 (0.277)	-156 (66)	-57 (24)	-0.63 (0.27)	-0.22 (0.09)	25 (26)	10 (10)	0.051 (0.051)	0.018 (0.018)
4	-167 (459)	-61 (168)	-0.67 (1.84)	-0.243 (0.665)	-179 (98)	-66 (36)	-0.72 (0.39)	-0.25 (0.14)	72 (47)	28 (18)	0.144 (0.095)	0.051 (0.034)
5	-383 (538)	-140 (197)	-1.54 (2.16)	-0.552 (0.774)	-187 (200)	-69 (73)	-0.75 (0.81)	-0.26 (0.28)				
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30												
31												
Avg	3	1.1	0.01	0.010	-116	-43	-0.5	-(0.16)	45	17.3	0.090	0.032
n	5	5	5	5	5	5	5	5	4	4	4	4
SD	319.0	117.0	1.28	0.469	97.9	35.8	0.4	(0.14)	17	6.5	0.034	0.012
Min	-383	-140.0	-1.54	-0.552	-187	-69	-0.8	-(0.26)	25	9.7	0.051	0.018
Max	570	208.0	2.29	0.848	76	28	0.3	(0.11)	72	27.7	0.144	0.051

ED_001509B_00005068-00190

Table F7. Daily means (SD) of PM2.5 emissions at site IN2B for June, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
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10												
11												
12												
13	-267 (454)	-98 (166)	-1.10 (1.87)	-0.387 (0.659)	63 (183)	23 (67)	0.26 (0.74)	0.09 (0.27)	4 (21)	2 (8)	0.008 (0.042)	0.003 (0.015)
14	-333 (273)	-122 (100)	-1.37 (1.12)	-0.483 (0.396)	117 (180)	43 (66)	0.48 (0.73)	0.17 (0.26)	4 (11)	2 (4)	0.008 (0.022)	0.003 (0.008)
15	-310 (548)	-113 (201)	-1.28 (2.26)	-0.449 (0.794)	215 (367)	79 (134)	0.88 (1.49)	0.32 (0.54)	3 (13)	1 (5)	0.007 (0.028)	0.002 (0.010)
16	-102 (483)	-37 (177)	-0.42 (1.99)	-0.148 (0.700)	403 (592)	147 (217)	1.64 (2.41)	0.59 (0.87)	24 (35)	9 (14)	0.050 (0.072)	0.018 (0.026)
17	-236 (1890)	-86 (693)	-0.97 (7.81)	-0.341 (2.740)	299 (451)	109 (165)	1.22 (1.83)	0.44 (0.66)	12 (21)	5 (8)	0.024 (0.042)	0.009 (0.015)
18	-296 (486)	-108 (178)	-1.22 (2.00)	-0.428 (0.703)	210 (378)	77 (138)	0.86 (1.54)	0.31 (0.55)	13 (18)	5 (7)	0.027 (0.037)	0.010 (0.013)
19	-550 (1720)	-201 (628)	-2.27 (7.08)	-0.795 (2.480)	145 (825)	53 (302)	0.59 (3.36)	0.21 (1.21)	18 (48)	7 (19)	0.037 (0.099)	0.013 (0.035)
20	-833 (770)	-305 (282)	-3.44 (3.18)	-1.200 (1.110)	119 (743)	44 (272)	0.49 (3.02)	0.17 (1.09)	9 (14)	3 (5)	0.018 (0.028)	0.006 (0.010)
21	-796 (1130)	-291 (414)	-3.29 (4.68)	-1.150 (1.630)	150 (938)	55 (343)	0.61 (3.82)	0.22 (1.37)	8 (11)	3 (4)	0.016 (0.022)	0.006 (0.008)
22	-422 (930)	-154 (340)	-1.74 (3.84)	-0.608 (1.340)	367 (720)	134 (263)	1.49 (2.93)	0.54 (1.05)	24 (31)	9 (12)	0.050 (0.063)	0.018 (0.022)
23	-691 (1590)	-253 (582)	-2.86 (6.58)	-0.995 (2.290)	405 (1570)	148 (576)	1.65 (6.41)	0.59 (2.30)	14 (19)	5 (7)	0.028 (0.040)	0.010 (0.014)
24	-1170 (1400)	-427 (513)	-4.82 (5.80)	-1.680 (2.020)	-57 (1700)	-21 (622)	-0.23 (6.92)	-0.08 (2.49)	8 (16)	3 (6)	0.016 (0.033)	0.005 (0.012)
25	-1330 (835)	-486 (306)	-5.49 (3.45)	-1.910 (1.200)	115 (773)	42 (283)	0.47 (3.15)	0.17 (1.13)	5 (9)	2 (3)	0.011 (0.018)	0.004 (0.007)
26												
27												
28												
29												
30												
Avg	-564	-206.0	-2.33	-0.813	196	72	0.8	(0.29)	11	4.3	0.023	0.008
n	13	13	13	13	13	13	13	13	13	13	13	13
SD	363.0	133.0	1.50	0.521	134.0	48.9	0.5	(0.20)	7	2.7	0.014	0.005
Min	-1330	-486.0	-5.49	-1.910	-57	-21	-0.2	-(0.08)	3	1.2	0.007	0.002
Max	-102	-37.4	-0.42	-0.148	405	148	1.7	(0.59)	24	9.4	0.050	0.018

ED_001509B_00005068-00191

Table F8. TSP concentrations.

Table F8. Daily means (SD) of TSP concentrations at site IN2B for January, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
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26						
27						
28						
29						
30						
31		1790 (1080)	2860 (1450)	1040 (660)	608 (1480)	146 (207)
Avg						
n	0	1	1	1	1	1
SD						
Min						
Max						

ED_001509B_00005068-00192

Table F8. Daily means (SD) of TSP concentrations at site IN2B for February, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1		1910 (1260)	2280 (1040)	1100 (884)	209 (17)	156 (90)
2		1820 (1410)	2030 (1250)	873 (715)	1710 (3610)	187 (197)
3		1260 (931)		969 (988)	237 (7)	131 (135)
4				800 (840)	214 (6)	172 (155)
5				545 (502)	188 (9)	71 (103)
6		1790 (1110)	3230 (1500)	375 (430)	160 (6)	41 (35)
7	96 (67)	2070 (1470)	2690 (1480)	508 (584)	131 (8)	141 (182)
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10						
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25						
26						
27						
28						
29						
Avg		1770	2560	739	406	128
n	1	5	4	7	7	7
SD		272.0	455.0	248.0	532.0	49.5
Min		1260	2030	375	131	41
Max		2070	3230	1100	1710	187

Table F8. Daily means (SD) of TSP concentrations at site IN2B for April, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5	252 (1080)		1500 (1930)		11 (0)	274 (444)
6	254 (1400)		764 (515)		11 (0)	58 (16)
7	487 (1520)		1230 (1990)		5 (22)	529 (801)
8	706 (1920)		1190 (1720)		56 (106)	246 (417)
9	1130 (2470)		1000 (1710)		25 (34)	423 (713)
10	1300 (2960)		765 (1510)		221 (470)	286 (591)
11						
12						
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20						
21						
22						
23						
24						
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26						
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28						
29						
30						
Avg	688		1080		55	303
n	6	0	6	0	6	6
SD	406.0		264.0		76.3	147.0
Min	252		764		5	58
Max	1300		1500		221	529

ED_001509B_00005068-00194

Table F8. Daily means (SD) of TSP concentrations at site IN2B for June, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
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10						
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12						
13						
14						
15						
16						
17						
18						
19						
20	215 (693)			761 (1310)	1510 (3310)	699 (898)
21	261 (639)	1530 (2860)	6000 (11500)	953 (2030)	1600 (2730)	489 (680)
22	2310 (4320)	191 (251)	674 (706)	142 (146)	516 (1120)	133 (94)
23	2020 (4110)	908 (1550)	4310 (7950)	908 (1530)	93 (46)	367 (413)
24	1330 (3170)	232 (580)	2470 (4740)	281 (483)	1420 (2440)	386 (606)
25	493 (1710)	159 (448)	4250 (9300)	506 (997)	1280 (2470)	453 (888)
26	510 (1680)	138 (3390)	4410 (13600)	324 (631)	1560 (2510)	329 (606)
27						
28						
29						
30						
Avg	1020	526	3690	553	1140	408
n	7	6	6	7	7	7
SD	803.0	523.0	1690.0	299.0	549.0	159.0
Min	215	138	674	142	93	133
Max	2310	1530	6000	953	1600	699

Table F8. Daily means (SD) of TSP concentrations at site IN2B for August, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15		888 (1260)	5570 (9870)	6600 (10700)	1550 (2930)	444 (324)
16		566 (996)	3780 (7160)	4680 (10100)	1820 (4340)	840 (1210)
17		113 (105)		710 (543)	-37 (200)	310 (230)
18		2390 (12900)		7640 (13800)	1830 (3620)	942 (1190)
19		755 (1330)		6330 (15200)	1150 (2840)	832 (1350)
20		649 (1540)		4090 (9580)	-119 (467)	470 (728)
21		524 (1150)	2680 (4900)	5040 (11900)	17 (735)	343 (417)
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Avg		841	4010	5010	888	597
n	0	7	3	7	7	7
SD		672.0	1190.0	2090.0	836.0	245.0
Min		113	2680	710	-119	310
Max		2390	5570	7640	1830	942

Table F8. Daily means (SD) of TSP concentrations at site IN2B for October, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1						
2						
3						
4		565 (622)	759 (1050)	6340 (8690)	1090 (1780)	-62 (9)
5		228 (207)	1060 (2280)	3500 (5990)	1080 (2650)	-47 (23)
6		913 (1570)	3070 (7990)	18300 (28700)	368 (1370)	369 (1330)
7		706 (1110)	2600 (7280)	15300 (28400)	31 (60)	2140 (2650)
8		773 (2740)	1070 (3490)	8580 (16900)	908 (2780)	-92 (9)
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17						
18						
19						
20						
21						
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26						
27						
28						
29						
30						
31						
Avg		637	1710	10400	696	461
n	0	5	5	5	5	5
SD		233.0	935.0	5540.0	424.0	856.0
Min		228	759	3500	31	-92
Max		913	3070	18300	1090	2140

Table F8. Daily means (SD) of TSP concentrations at site IN2B for December, 2008.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13	82 (48)	1030 (826)	5220 (7580)	744 (576)	1400 (7)	
14	106 (50)	683 (547)	1960 (900)	522 (313)	1370 (7)	28 (11)
15	2 (94)	1150 (3740)	5440 (12500)	1260 (6190)	1350 (7)	
16		405 (420)	2850 (1410)	611 (459)	1330 (6)	
17	25 (20)	354 (525)	2760 (1410)	795 (1210)	1310 (7)	
18		144 (222)	6370 (10500)	613 (338)	1280 (7)	
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Avg	54	626	4100	757	1340	
n	4	6	6	6	6	1
SD	41.9	363.0	1640.0	241.0	39.4	
Min	2	144	1960	522	1280	
Max	106	1150	6370	1260	1400	

Table F8. Daily means (SD) of TSP concentrations at site IN2B for February, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7	72 (39)	1750 (3340)	1080 (782)	1090 (1570)	663 (445)	
8	117 (82)	776 (821)	931 (487)	885 (532)	581 (282)	
9	60 (21)	1120 (1190)	1130 (1420)	1130 (989)	496 (639)	
10	224 (133)	1080 (1690)	1150 (2390)	860 (373)	99 (141)	
11	67 (77)	1010 (1740)	595 (587)	957 (723)	21 (42)	
12	16 (18)	2940 (6620)	950 (3070)	1020 (1200)	154 (287)	
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14						
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22						
23						
24						
25						
26						
27						
28						
Avg	93	1450	972	991	336	
n	6	6	6	6	6	0
SD	65.6	732.0	187.0	101.0	252.0	
Min	16	776	595	860	21	
Max	224	2940	1150	1130	663	

Table F8. Daily means (SD) of TSP concentrations at site IN2B for April, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	51 (21)	1800 (2000)	3050 (5450)	1110 (1510)	462 (4)	86 (104)
11	103 (68)	1780 (1900)	2190 (3840)	1010 (1890)	445 (5)	268 (437)
12	47 (24)	1330 (1110)	362 (450)	658 (418)	428 (5)	61 (25)
13	25 (13)	1990 (2660)	3040 (5950)	1630 (2050)	411 (4)	150 (222)
14	79 (63)	668 (1340)	2270 (5190)	673 (971)	396 (5)	158 (199)
15	115 (87)		1440 (2870)	1360 (3700)	379 (5)	204 (380)
16			1340 (2630)	202 (442)	361 (4)	113 (159)
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
Avg	70	1510	1960	948	412	148
n	6	5	7	7	7	7
SD	32.0	475.0	904.0	443.0	33.4	65.8
Min	25	668	362	202	361	61
Max	115	1990	3050	1630	462	268

Table F8. Daily means (SD) of TSP concentrations at site IN2B for June, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1						
2						
3						
4						
5		1850 (1990)	3530 (6870)	2350 (4040)	2880 (5240)	
6		1010 (1160)	5180 (10600)	1500 (2670)	133 (100)	1260 (2190)
7		237 (308)	278 (150)	516 (490)	2590 (4760)	269 (260)
8		364 (769)	4160 (8100)	1600 (3440)	3120 (5240)	963 (1350)
9		84 (209)	3820 (6830)	1510 (2770)	2100 (3620)	572 (844)
10		145 (1080)	3060 (5610)	997 (1670)	949 (1830)	209 (373)
11		100 (351)	1180 (2570)	271 (711)	196 (685)	400 (798)
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
Avg		542	3030	1250	1710	612
n	0	7	7	7	7	6
SD		613.0	1590.0	658.0	1170.0	380.0
Min		84	278	271	133	209
Max		1850	5180	2350	3120	1260

Table F8. Daily means (SD) of TSP concentrations at site IN2B for August, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15	319 (170)	1110 (1280)	4590 (12800)	1270 (2640)	56 (40)	635 (1180)
16	236 (141)	557 (1010)	326 (218)	334 (552)	1650 (3290)	237 (170)
17	232 (152)	1780 (5860)	8110 (18100)	1470 (2710)	1220 (2320)	445 (624)
18	206 (114)	1180 (7070)	4530 (11400)	814 (1430)	660 (1350)	702 (1150)
19	216 (167)	627 (1260)	2190 (5110)	1190 (4070)	626 (1350)	327 (527)
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Avg	242	1050	3950	1010	842	469
n	5	5	5	5	5	5
SD	40.2	441.0	2620.0	401.0	547.0	177.0
Min	206	557	326	334	56	237
Max	319	1780	8110	1470	1650	702

Table F8. Daily means (SD) of TSP concentrations at site IN2B for October, 2009.

Day	Concentration, µg·dsm^{-3}					
	Inlet	House 8	House 9	H8 tunnel	H9 tunnel	Manure shed
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	128 (106)	952 (862)	2070 (4910)	679 (1200)	872 (16)	559 (1020)
11	166 (154)	134 (1530)	169 (102)	29 (187)	816 (15)	93 (129)
12	86 (133)	1170 (1370)	5830 (11700)	790 (616)	764 (14)	723 (1140)
13	117 (87)	1610 (3830)	984 (3070)	1310 (2050)	711 (16)	365 (717)
14	25 (19)	696 (684)	2090 (9430)	719 (534)	654 (16)	219 (390)
15	43 (42)	1280 (2250)	3220 (7520)	1260 (3460)	601 (15)	362 (772)
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Avg	94	973	2390	797	736	387
n	6	6	6	6	6	6
SD	48.7	469.0	1810.0	425.0	92.3	208.0
Min	25	134	169	29	601	93
Max	166	1610	5830	1310	872	723

Table F9. TSP emissions.

Table F9. Daily means (SD) of TSP emissions at site IN2B for February, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6	7080 (5530)	2590 (2020)	27.00 (21.10)	9.290 (7.260)	16100 (9480)	5890 (3470)	63.20 (37.20)	21.30 (12.50)				
7	7780 (5860)	2850 (2140)	29.70 (22.40)	10.200 (7.690)	6420 (6180)	2350 (2260)	25.20 (24.30)	8.48 (8.17)				
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
Avg	7430	2720.0	28.30	9.750	11300	4120	44.2	(14.90)				
n	2	2	2	2	2	2	2	2	0	0	0	0
SD	353.0	129.0	1.35	0.461	4840.0	1770.0	19.0	(6.41)				
Min	7080	2590.0	27.00	9.290	6420	2350	25.2	(8.48)				
Max	7780	2850.0	29.70	10.200	16100	5890	63.2	(21.30)				

ED_001509B_00005068-00204

Table F9. Daily means (SD) of TSP emissions at site IN2B for December, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13	8350 (8740)	3050 (3200)	32.90 (34.40)	11.200 (11.800)	48600 (68700)	17800 (25100)	194.00 (274.00)	66.20 (93.70)				
14	6170 (4790)	2260 (1750)	24.30 (18.80)	8.310 (6.440)	24800 (13500)	9070 (4920)	99.00 (53.70)	33.80 (18.40)	-212 (133)	-82 (51)	-0.846 (0.532)	-0.144 (0.090)
15	5430 (17700)	1980 (6480)	21.40 (69.70)	7.300 (23.800)	37500 (88100)	13700 (32200)	150.00 (352.00)	51.20 (120.00)				
16												
17	1630 (2590)	596 (946)	6.42 (10.20)	2.190 (3.480)	20100 (11100)	7360 (4060)	80.30 (44.30)	27.40 (15.10)				
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	5400	1970.0	21.20	7.260	32700	12000	131.0	(44.70)				
n	4	4	4	4	4	4	4	4	1	1	1	1
SD	2420.0	887.0	9.55	3.260	11100.0	4070.0	44.4	(15.20)				
Min	1630	596.0	6.42	2.190	20100	7360	80.3	(27.40)				
Max	8350	3050.0	32.90	11.200	48600	17800	194.0	(66.20)				

ED_001509B_00005068-00205

Table F9. Daily means (SD) of TSP emissions at site IN2B for February, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7	4510 (6400)	1650 (2340)	18.00 (25.50)	7.360 (10.500)	6530 (4880)	2390 (1790)	26.20 (19.60)	8.93 (6.67)				
8	3650 (4580)	1330 (1670)	14.60 (18.30)	5.970 (7.490)	5010 (2770)	1830 (1010)	20.10 (11.10)	6.86 (3.79)				
9	7520 (8450)	2750 (3090)	30.00 (33.80)	12.300 (13.900)	6760 (8960)	2470 (3280)	27.10 (35.90)	9.26 (12.30)				
10	9030 (17500)	3300 (6400)	36.10 (69.80)	14.800 (28.700)	7050 (18400)	2580 (6710)	28.30 (73.60)	9.68 (25.20)				
11	10400 (21500)	3790 (7850)	41.40 (85.70)	17.100 (35.300)	4030 (4150)	1470 (1520)	16.10 (16.70)	5.53 (5.71)				
12	15800 (36100)	5780 (13200)	63.20 (144.00)	26.100 (59.500)	5530 (17100)	2020 (6270)	22.20 (68.80)	7.61 (23.60)				
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
Avg	8480	3100.0	33.90	13.900	5820	2130	23.3	(7.98)				
n	6	6	6	6	6	6	6	6	0	0	0	0
SD	4030.0	1470.0	16.10	6.670	1070.0	391.0	4.3	(1.46)				
Min	3650	1330.0	14.60	5.970	4030	1470	16.1	(5.53)				
Max	15800	5780.0	63.20	26.100	7050	2580	28.3	(9.68)				

ED_001509B_00005068-00206

Table F9. Daily means (SD) of TSP emissions at site IN2B for April, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	12600 (14800)	4600 (5410)	50.90 (59.80)	17.300 (20.300)	21900 (39900)	8020 (14600)	88.20 (161.00)	31.30 (57.00)	99 (353)	38 (136)	0.400 (1.420)	0.070 (0.247)
11	8940 (10400)	3270 (3800)	36.20 (42.10)	12.300 (14.300)	13200 (24500)	4840 (8980)	53.20 (98.80)	18.90 (35.10)	147 (440)	57 (170)	0.591 (1.770)	0.103 (0.308)
12	8560 (7380)	3130 (2700)	34.60 (29.90)	11.800 (10.200)	2420 (4020)	884 (1470)	9.74 (16.20)	3.45 (5.74)	41 (108)	16 (42)	0.165 (0.437)	0.029 (0.076)
13	10500 (14400)	3850 (5260)	42.60 (58.30)	14.500 (19.800)	19200 (37900)	7030 (13800)	77.40 (152.00)	27.40 (54.00)	439 (1060)	169 (410)	1.770 (4.280)	0.307 (0.744)
14	4360 (9600)	1600 (3510)	17.70 (38.90)	6.000 (13.200)	13600 (32300)	4970 (11800)	54.80 (130.00)	19.40 (46.00)	62 (219)	24 (84)	0.251 (0.881)	0.044 (0.153)
15					6900 (15400)	2520 (5640)	27.80 (62.10)	9.82 (22.00)	61 (347)	24 (134)	0.246 (1.400)	0.043 (0.243)
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
Avg	8990	3290.0	36.40	12.400	12900	4710	51.9	(18.40)	142	54.6	0.570	0.099
n	5	5	5	5	6	6	6	6	6	6	6	6
SD	2710.0	993.0	11.00	3.720	6680.0	2440.0	26.9	(9.54)	137	52.9	0.553	0.096
Min	4360	1600.0	17.70	6.000	2420	884	9.7	(3.45)	41	15.8	0.165	0.029
Max	12600	4600.0	50.90	17.300	21900	8020	88.2	(31.30)	439	169.0	1.770	0.307

ED_001509B_00005068-00207

Table F9. Daily means (SD) of TSP emissions at site IN2B for June, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5	15100 (15000)	5510 (5500)	61.90 (61.80)	21.900 (21.800)	29100 (54500)	10700 (19900)	118.00 (221.00)	42.60 (79.80)				
6	10900 (14800)	3970 (5400)	44.60 (60.70)	15.800 (21.500)	61100 (128000)	22300 (46700)	248.00 (519.00)	89.40 (187.00)	637 (1580)	246 (608)	2.580 (6.400)	0.464 (1.150)
7	359 (6780)	131 (2480)	1.48 (27.90)	0.522 (9.860)	1610 (4640)	588 (1700)	6.52 (18.80)	2.35 (6.79)	29 (710)	11 (274)	0.117 (2.880)	0.021 (0.518)
8	4280 (11300)	1570 (4130)	17.60 (46.40)	6.220 (16.400)	61500 (115000)	22500 (42200)	250.00 (469.00)	90.00 (169.00)	1760 (3000)	680 (1160)	7.160 (12.200)	1.290 (2.190)
9	-695 (2530)	-254 (925)	-2.86 (10.40)	-1.010 (3.670)					251 (719)	97 (277)	1.020 (2.920)	0.183 (0.525)
10	585 (9390)	214 (3430)	2.41 (38.60)	0.850 (13.600)	29500 (53300)	10800 (19500)	120.00 (216.00)	43.30 (78.10)	180 (567)	69 (219)	0.731 (2.300)	0.131 (0.413)
11	24 (5240)	9 (1920)	0.10 (21.60)	0.035 (7.610)	13000 (29600)	4740 (10800)	52.70 (120.00)	19.00 (43.40)	123 (710)	47 (274)	0.499 (2.880)	0.090 (0.518)
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
Avg	4360	1590.0	17.90	6.330	32600	11900	132.0	(47.80)	497	192.0	2.020	0.363
n	7	7	7	7	6	6	6	6	6	6	6	6
SD	5750.0	2100.0	23.60	8.360	22400.0	8200.0	90.9	(32.80)	598	230.0	2.430	0.436
Min	-695	-254.0	-2.86	-1.010	1610	588	6.5	(2.35)	29	11.1	0.117	0.021
Max	15100	5510.0	61.90	21.900	61500	22500	250.0	(90.00)	1760	680.0	7.160	1.290

ED_001509B_00005068-00208

Table F9. Daily means (SD) of TSP emissions at site IN2B for August, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	18600 (26100)	6810 (9540)	78.00 (109.00)	27.100 (37.900)	72000 (203000)	26400 (74100)	296.00 (832.00)	108.00 (304.00)	168 (745)	65 (287)	0.688 (3.060)	0.124 (0.550)
16	11800 (45500)	4310 (16600)	49.40 (191.00)	17.100 (66.200)	3890 (7290)	1420 (2670)	16.00 (29.90)	5.86 (11.00)	16 (230)	6 (89)	0.067 (0.943)	0.012 (0.170)
17	28100 (96900)	10300 (35400)	118.00 (406.00)	40.900 (141.000)					326 (1070)	126 (412)	1.340 (4.390)	0.241 (0.790)
18	12200 (75900)	4480 (27800)	51.30 (318.00)	17.800 (110.000)	92300 (213000)	33800 (78100)	379.00 (877.00)	139.00 (322.00)	276 (774)	106 (298)	1.130 (3.180)	0.204 (0.573)
19	8320 (21500)	3040 (7880)	34.90 (90.40)	12.100 (31.400)	40500 (119000)	14800 (43700)	166.00 (491.00)	61.10 (180.00)	-18 (455)	-7 (176)	-0.073 (1.870)	-0.013 (0.338)
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	15800	5790.0	66.30	23.000	52200	19100	214.0	(78.60)	154	59.2	0.631	0.114
n	5	5	5	5	4	4	4	4	5	5	5	5
SD	7000.0	2560.0	29.30	10.200	33400.0	12200.0	137.0	(50.40)	136	52.6	0.560	0.101
Min	8320	3040.0	34.90	12.100	3890	1420	16.0	(5.86)	-18	-6.8	-0.073	-0.013
Max	28100	10300.0	118.00	40.900	92300	33800	379.0	(139.00)	326	126.0	1.340	0.241

ED_001509B_00005068-00209

Table F9. Daily means (SD) of TSP emissions at site IN2B for October, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$g \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	6820 (7080)	2490 (2590)	29.00 (30.20)	10.200 (10.600)	8600 (21200)	3150 (7770)	35.60 (87.90)	12.50 (31.00)	192 (566)	74 (218)	0.794 (2.350)	0.142 (0.419)
11	77 (9970)	28 (3650)	0.33 (42.50)	0.115 (14.900)	12 (574)	4 (210)	0.05 (2.38)	0.02 (0.83)	-28 (89)	-11 (34)	-0.117 (0.366)	-0.021 (0.065)
12	8300 (9420)	3040 (3450)	35.40 (40.10)	12.400 (14.100)	28600 (57800)	10500 (21100)	119.00 (239.00)	41.50 (83.70)	956 (2030)	369 (783)	3.960 (8.410)	0.703 (1.490)
13	13300 (38900)	4860 (14200)	56.60 (166.00)	19.800 (57.900)	5940 (21500)	2170 (7870)	24.60 (89.10)	8.59 (31.10)	267 (1530)	103 (591)	1.110 (6.350)	0.196 (1.130)
14	4960 (5040)	1810 (1840)	21.10 (21.50)	7.370 (7.490)	11600 (53300)	4260 (19500)	48.30 (221.00)	16.80 (76.80)	751 (2000)	290 (770)	3.110 (8.280)	0.550 (1.460)
15	9480 (18500)	3470 (6770)	40.40 (78.90)	14.100 (27.500)	18600 (43600)	6810 (15900)	77.20 (181.00)	26.80 (62.60)	560 (1710)	216 (658)	2.320 (7.070)	0.409 (1.250)
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	7150	2620.0	30.50	10.700	12200	4480	50.7	(17.70)	450	173.0	1.860	0.330
n	6	6	6	6	6	6	6	6	6	6	6	6
SD	4070.0	1490.0	17.30	6.060	9240.0	3380.0	38.3	(13.40)	338	131.0	1.400	0.248
Min	77	28.1	0.33	0.115	12	4	0.1	(0.02)	-28	-10.9	-0.117	-0.021
Max	13300	4860.0	56.60	19.800	28600	10500	119.0	(41.50)	956	369.0	3.960	0.703

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Table F10. Hydrogen sulfide concentrations.

Table F10. Daily means (SD) of H2S concentrations at site IN2B for January, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	-3 (0)	-3 (0)	27 (7)		16 (9)		20 (6)		10 (5)		20 (4)	
2	-3 (0)	-3 (0)	30 (12)		18 (6)		16 (6)		12 (5)		20 (5)	
3	0 (2)	0 (2)	45 (16)	65 (23)	18 (4)	25 (6)	43 (25)	62 (37)	18 (6)	26 (8)	34 (7)	49 (9)
4	1 (1)	2 (3)	46 (25)	66 (36)	32 (11)	45 (16)	70 (16)	101 (23)	29 (11)	41 (16)		
5	3 (1)	5 (2)	42 (7)	60 (10)	47 (9)	68 (13)	64 (9)	91 (13)	45 (7)	65 (10)	35 (5)	50 (7)
6	2 (2)	4 (4)	54 (5)	77 (8)	44 (6)	63 (8)	66 (7)	95 (10)	42 (5)	61 (7)	24 (9)	34 (12)
7	0 (1)	-1 (1)	37 (20)	54 (28)	21 (8)	30 (11)	56 (12)	80 (17)	22 (7)	32 (10)	36 (19)	51 (28)
8	1 (1)	-1 (1)	39 (16)	56 (23)	26 (4)	38 (6)	52 (13)	75 (19)	27 (3)	38 (5)	41 (28)	58 (40)
9	-1 (2)	-2 (1)	49 (23)	70 (33)	37 (6)	53 (9)	69 (15)	99 (22)	32 (6)	46 (9)	56 (38)	79 (54)
10	-1 (2)	-2 (1)	45 (6)	64 (8)	43 (5)	62 (7)	64 (7)	92 (11)	39 (6)	55 (9)	9 (7)	13 (10)
11	-2 (1)	-2 (1)	50 (16)	72 (22)	53 (5)	76 (7)	78 (11)	112 (16)	50 (5)	71 (7)	30 (14)	43 (19)
12	1 (1)	1 (1)	61 (7)	87 (10)	35 (12)	50 (18)	90 (9)	129 (13)	35 (16)	50 (23)	42 (22)	59 (31)
13	0 (2)	0 (2)	85 (9)	122 (12)	37 (11)	52 (16)	98 (10)	140 (14)	37 (10)	53 (14)	53 (20)	75 (28)
14	-2 (0)	-3 (0)	66 (28)	94 (40)	52 (6)	75 (8)	80 (32)	114 (45)	45 (6)	64 (9)	64 (8)	91 (11)
15	-2 (1)	-3 (1)	49 (7)	69 (10)	55 (4)	78 (6)	46 (10)	66 (15)	46 (6)	66 (9)	73 (28)	103 (40)
16	3 (1)	3 (1)	57 (12)	82 (18)	36 (20)	51 (29)	98 (15)	140 (21)	37 (18)	54 (25)	105 (69)	149 (98)
17	3 (3)	4 (4)	69 (12)	99 (18)	46 (9)	66 (13)	123 (14)	177 (20)	50 (8)	72 (11)	113 (43)	160 (61)
18	0 (2)	-1 (1)	80 (21)	115 (32)	66 (5)	93 (7)	128 (20)	182 (30)	70 (6)	98 (5)	94 (24)	
19	-1 (1)	-2 (1)	91 (15)		41 (28)		156 (18)		46 (29)		70 (10)	
20	2 (3)	-1 (1)	119 (16)	170 (23)	50 (15)	71 (21)	174 (28)	249 (39)	55 (16)	78 (22)	81 (9)	115 (13)
21	5 (3)	7 (2)	116 (33)	166 (46)	65 (20)	94 (29)	157 (36)	225 (51)	111 (28)	160 (41)	106 (76)	150 (107)
22	-1 (1)	4 (4)	88 (19)	126 (28)	85 (21)	122 (30)	127 (14)	182 (20)	150 (7)	215 (10)	79 (14)	113 (20)
23	-1 (1)	6 (4)	80 (19)	114 (26)	99 (21)	143 (30)	127 (14)	182 (21)				
24	-1 (1)	0 (1)	79 (16)	113 (23)	94 (17)	135 (24)	132 (19)	189 (27)	104 (11)	149 (16)	72 (12)	102 (17)
25	0 (3)	9 (3)	82 (22)	117 (31)	83 (22)	119 (31)	135 (10)	193 (14)	96 (9)	138 (13)	82 (30)	116 (43)
26	2 (2)	5 (3)	79 (12)	113 (17)	62 (16)	89 (23)	130 (19)	186 (27)	82 (17)	117 (25)	116 (41)	165 (58)
27	0 (2)	3 (3)	103 (10)	147 (14)	86 (14)	123 (20)	126 (12)	181 (17)	89 (9)	127 (13)	141 (32)	201 (45)
28	5 (3)	13 (2)	98 (24)	140 (34)	96 (12)	137 (17)	103 (24)	148 (34)	109 (14)	156 (20)	81 (60)	115 (86)
29	2 (2)	7 (4)	90 (11)	129 (16)	92 (21)	132 (31)	109 (26)	156 (37)	112 (18)	162 (26)	66 (20)	94 (28)
30	1 (4)	0 (4)	93 (21)	133 (30)	121 (19)	174 (26)	106 (82)	152 (118)	130 (14)	186 (19)	54 (22)	76 (32)
31	3 (5)	6 (6)	123 (28)	175 (40)	82 (16)	117 (23)	235 (35)	337 (50)	87 (22)	124 (32)		
Avg	0	2	70	103	56	85	99	148	61	93	64.1	94.3
n	31	31	31	28	31	28	31	28	30	27	28	24
SD	2	4	26	36	28	38	47	61	37	52	32.8	46.0
Min	-3	-3	27	54	16	25	16	62	10	26	9.2	13.1
Max	5	13	123	175	121	174	235	337	150	215	141.0	201.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for February, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (3)	4 (4)	102 (30)	145 (43)	95 (14)	136 (19)	163 (50)	234 (72)	108 (9)	155 (13)	105 (71)	150 (101)
2	1 (2)	13 (6)	86 (12)	123 (17)	94 (17)	135 (24)	137 (17)	196 (24)	108 (23)	155 (34)	112 (40)	159 (56)
3	1 (1)	3 (2)	100 (8)	143 (11)	90 (7)	129 (10)	139 (21)	200 (30)	94 (16)	135 (22)	48 (39)	69 (55)
4	1 (2)	7 (9)	100 (17)	143 (25)	88 (8)	127 (11)	125 (18)	179 (26)	91 (6)	130 (8)	42 (47)	60 (67)
5	1 (2)	3 (3)	90 (12)	129 (17)	92 (7)	132 (9)	130 (20)	186 (29)	115 (17)	165 (25)	96 (34)	136 (49)
6	-1 (0)	1 (1)	86 (10)	122 (15)	95 (13)	136 (18)	139 (12)	199 (17)	113 (13)	162 (18)	55 (44)	78 (63)
7	-1 (0)	0 (1)	81 (10)	115 (14)	82 (19)	118 (28)	150 (32)	215 (45)	107 (17)	154 (25)	89 (44)	127 (63)
8	-1 (0)	4 (1)										
9	-2 (0)	-1 (1)							108 (22)	155 (32)		
10	-2 (0)	-2 (0)	86 (10)	123 (14)	87 (9)	124 (14)	109 (9)	156 (13)	33 (16)	47 (23)	45 (10)	63 (14)
11	1 (3)	3 (5)	94 (28)	135 (40)	70 (13)	100 (19)						
12	1 (1)	7 (4)										
13	-1 (1)	11 (6)	86 (25)	123 (36)	58 (9)	83 (12)	128 (36)	184 (51)	61 (13)	88 (19)	121 (38)	172 (54)
14	1 (1)	17 (5)	62 (18)	89 (25)	52 (10)	74 (14)	131 (53)	188 (77)	73 (19)	105 (28)	158 (95)	224 (136)
15	2 (4)	2 (3)	40 (21)	57 (30)	30 (18)	43 (27)	66 (31)	95 (44)	42 (29)	60 (41)	96 (86)	137 (122)
16	2 (1)	7 (4)	41 (12)	59 (16)	10 (9)	14 (14)	44 (21)	63 (30)	4 (11)	6 (16)	101 (71)	144 (101)
17	3 (2)	6 (5)	25 (7)	36 (11)	5 (3)	7 (4)	14 (22)	20 (31)	-4 (0)	-6 (1)	58 (16)	83 (23)
18	-1 (1)	-2 (1)	35 (11)	50 (15)	0 (3)	-1 (4)	3 (7)	4 (10)	-4 (0)	-5 (0)	55 (11)	78 (15)
19	2 (3)	5 (9)	51 (28)	73 (40)	0 (4)	0 (5)	16 (19)	23 (27)	-3 (2)	-5 (2)	58 (16)	83 (22)
20	4 (5)	13 (7)	27 (10)	39 (15)	12 (9)	17 (13)	1 (7)	2 (10)	-4 (2)	-5 (3)	55 (35)	79 (50)
21	0 (1)	7 (5)	37 (11)	53 (15)	8 (1)	12 (2)	19 (16)	27 (23)	-5 (0)	-7 (0)	37 (41)	53 (58)
22	-1 (1)	4 (2)	38 (5)	54 (7)	11 (6)	15 (9)	41 (11)	59 (15)	-5 (0)	-7 (0)	13 (10)	18 (14)
23	-1 (0)	4 (1)										
24	0 (1)	7 (3)	61 (11)	87 (15)	18 (3)	26 (4)	50 (21)	71 (30)	28 (11)	40 (16)	107 (66)	153 (94)
25	-1 (1)	4 (3)	68 (11)	97 (16)	21 (7)	30 (10)	52 (18)	75 (26)	7 (10)	10 (14)	57 (21)	80 (30)
26	-1 (1)	3 (4)	56 (11)	80 (16)	33 (7)	48 (10)	61 (20)	87 (28)	11 (10)	16 (14)	20 (5)	28 (7)
27	-1 (1)	5 (3)	61 (16)	87 (23)	29 (13)	41 (19)	81 (30)	115 (43)	17 (11)	24 (16)	42 (14)	59 (19)
28	0 (0)	8 (1)										
29	-2 (0)	0 (3)	66 (9)	95 (13)	41 (10)	59 (14)	92 (16)	133 (22)	22 (11)	31 (15)	29 (16)	41 (22)
Avg	0	5	66	94	47	67	82	118	47	67	69.5	98.8
n	29	29	24	24	24	24	23	23	24	24	23	23
SD	1	4	24	35	35	51	52	74	46	66	36.0	51.2
Min	-2	-2	25	36	0	-1	1	2	-5	-7	13.0	18.4
Max	4	17	102	145	95	136	163	234	115	165	158.0	224.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for March, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	-1 (1)	2 (3)	67 (11)	97 (16)	42 (4)	60 (5)	89 (20)	128 (29)	27 (4)	38 (5)	30 (14)	42 (20)
2	0 (2)	7 (3)	84 (4)	120 (6)	42 (8)	60 (11)	96 (15)	137 (21)	25 (6)	35 (8)	20 (9)	28 (13)
3	1 (3)	10 (8)	77 (6)	110 (9)	49 (15)	70 (21)	77 (8)	111 (12)	40 (21)	57 (31)	24 (8)	34 (11)
4	-2 (0)	-1 (1)	72 (10)	103 (14)	56 (8)	80 (12)	99 (14)	142 (20)	54 (15)	77 (22)	7 (5)	10 (7)
5	-1 (2)	2 (4)	72 (16)	103 (23)	45 (5)	65 (7)	86 (25)	123 (36)	32 (9)	46 (12)	62 (27)	89 (38)
6	-1 (1)	-1 (3)	82 (7)	118 (11)	46 (4)	65 (6)	73 (30)	104 (43)	55 (16)	78 (23)	66 (46)	94 (65)
7	-1 (1)	-2 (1)	80 (10)	115 (15)	49 (8)	70 (11)	92 (22)	132 (32)	55 (5)	79 (7)	6 (12)	9 (17)
8	-1 (1)	0 (1)	82 (12)	117 (17)	49 (8)	71 (11)	131 (17)	188 (25)	48 (7)	69 (10)	4 (3)	6 (4)
9	1 (1)	5 (3)	87 (4)	125 (6)	44 (13)	63 (19)	93 (35)	133 (50)	40 (15)	57 (22)	7 (3)	10 (5)
10	-2 (1)	1 (1)	88 (12)	125 (17)	52 (7)	75 (10)	102 (5)	146 (7)	62 (12)	88 (17)	9 (8)	13 (11)
11	-2 (0)	0 (1)	77 (16)	110 (22)	41 (8)	59 (12)	73 (23)	105 (34)	53 (12)	77 (18)	30 (21)	43 (30)
12	-1 (1)	0 (2)	75 (19)	108 (27)	41 (4)	59 (5)	92 (11)	132 (15)	52 (6)	74 (9)	18 (21)	26 (30)
13	-2 (0)	7 (3)	56 (10)	80 (14)	38 (4)	55 (6)	67 (21)	96 (30)	40 (8)	58 (12)	71 (60)	101 (85)
14	-2 (1)	1 (1)	52 (9)	74 (12)	35 (3)	50 (5)	74 (14)	106 (21)	49 (3)	70 (4)	88 (61)	126 (86)
15	-2 (1)	-1 (1)	47 (10)	68 (14)	29 (5)	42 (7)	68 (11)	98 (15)	35 (7)	51 (10)	25 (15)	35 (21)
16	-2 (0)	-1 (0)	59 (8)	85 (11)	29 (6)	41 (8)	61 (13)	87 (18)	34 (6)	49 (9)	16 (11)	23 (16)
17	-2 (0)	-2 (0)	53 (11)	77 (16)	22 (3)	32 (4)	46 (12)	65 (17)	26 (4)	37 (6)	2 (1)	3 (2)
18	1 (2)	1 (2)	60 (12)	86 (18)	29 (9)	42 (13)	62 (20)	89 (28)	31 (11)	45 (16)	21 (23)	30 (33)
19	-2 (1)	-1 (1)	71 (11)	102 (15)	40 (5)	57 (7)	92 (12)	132 (17)	39 (6)	55 (8)	13 (5)	19 (8)
20	-2 (1)	-1 (1)	76 (10)	108 (15)	40 (7)	58 (10)	95 (14)	137 (21)	43 (10)	62 (14)	27 (15)	39 (21)
21	-1 (1)	-1 (1)	53 (15)	76 (21)	32 (7)	45 (10)	26 (22)	37 (31)	30 (9)	43 (13)	7 (12)	10 (17)
22	-2 (0)	-1 (1)	46 (11)	66 (16)	30 (12)	43 (17)	40 (34)	58 (49)	32 (17)	46 (24)	25 (29)	35 (41)
23	-2 (1)	0 (1)	64 (15)	91 (21)	30 (14)	43 (19)	57 (37)	82 (53)	32 (16)	46 (23)	41 (26)	58 (38)
24	-1 (1)	2 (4)	57 (12)	81 (17)	29 (15)	42 (22)	47 (36)	67 (51)	31 (16)	44 (23)	35 (14)	50 (20)
25	-1 (2)	5 (6)	43 (13)	61 (19)	20 (10)	29 (15)	21 (27)	30 (38)	18 (14)	25 (20)	25 (9)	35 (13)
26	-2 (1)	-1 (1)	61 (8)	87 (11)	39 (6)	56 (9)	64 (26)	92 (38)	41 (10)	59 (15)	59 (20)	84 (29)
27	-1 (1)	-1 (1)	64 (9)	92 (13)	45 (3)	65 (5)	78 (9)	112 (13)	51 (5)	72 (8)	12 (19)	17 (27)
28	-1 (0)	-1 (1)	61 (8)	87 (11)	33 (8)	47 (11)	74 (28)	106 (40)	39 (10)	55 (14)	13 (6)	19 (9)
29	0 (1)	-1 (1)	60 (8)	86 (12)	31 (11)	44 (15)	73 (24)	104 (35)	38 (13)	54 (18)	6 (6)	8 (9)
30	0 (2)	0 (3)	61 (8)	88 (12)	35 (8)	51 (11)	45 (15)	65 (22)	39 (5)	56 (7)	9 (10)	14 (14)
31	5 (1)	8 (3)	61 (6)	87 (8)	42 (1)	61 (2)	43 (11)	62 (16)	41 (2)	60 (3)	24 (6)	35 (9)
Avg	-1	1	66	95	38	55	72	103	40	57	25.9	36.8
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	3	12	18	9	12	24	34	10	15	21.6	30.8
Min	-2	-2	43	61	20	29	21	30	18	25	2.4	3.4
Max	5	10	88	125	56	80	131	188	62	88	88.3	126.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for April, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	-1 (2)	0 (3)	58 (8)	84 (12)	30 (8)	43 (11)	39 (15)	56 (22)	31 (8)	45 (12)	23 (14)	33 (20)
2	0 (1)	2 (2)	71 (13)	102 (19)	31 (10)	45 (14)	57 (28)	82 (41)	38 (13)	55 (18)	27 (35)	38 (50)
3	-1 (1)	-1 (0)										
4	0 (1)	0 (1)	85 (8)	123 (11)	50 (3)	72 (4)	80 (9)	115 (13)	56 (2)	81 (3)	24 (11)	34 (16)
5	0 (2)	0 (3)	86 (11)	123 (15)	38 (6)	55 (8)	86 (21)	124 (30)	48 (8)	69 (11)	40 (11)	56 (16)
6	-1 (1)	-1 (0)	93 (12)	134 (17)	44 (6)	64 (8)	98 (16)	140 (23)	49 (9)	71 (13)	18 (18)	26 (25)
7	0 (1)	0 (2)	79 (14)	113 (20)	39 (12)	56 (17)	79 (15)	113 (21)	44 (11)	63 (15)	47 (20)	66 (29)
8	0 (2)	1 (2)	65 (15)	93 (21)	33 (7)	48 (10)	71 (19)	102 (27)	39 (8)	57 (12)	17 (12)	24 (17)
9	-1 (1)	-2 (1)	76 (7)	109 (10)	34 (3)	48 (5)	79 (13)	113 (18)	39 (4)	56 (6)	25 (13)	36 (18)
10	-1 (1)	-1 (1)	67 (13)	96 (19)	31 (3)	45 (4)	45 (30)	65 (43)	30 (5)	43 (7)	3 (2)	4 (3)
11	1 (3)	5 (7)	48 (7)	68 (10)	31 (3)	44 (5)	39 (21)	55 (30)	30 (7)	43 (9)	31 (20)	45 (28)
12	-2 (0)	-2 (1)	46 (7)	66 (10)	24 (8)	34 (12)	48 (18)	68 (26)	25 (10)	37 (14)	46 (7)	65 (10)
13	-1 (1)	0 (1)	53 (11)	75 (15)	24 (9)	34 (13)	54 (17)	77 (25)	23 (9)	34 (13)	32 (6)	45 (9)
14	0 (0)	0 (1)	57 (8)	81 (12)	23 (9)	33 (12)	63 (20)	90 (28)	25 (11)	35 (16)	31 (9)	45 (13)
15	-1 (1)	4 (3)	49 (13)	71 (18)	26 (5)	37 (7)	63 (25)	90 (35)	31 (7)	44 (11)	50 (25)	72 (36)
16	2 (1)	4 (3)	42 (12)	60 (17)	27 (6)	38 (8)	58 (15)	83 (21)	33 (4)	47 (6)	18 (7)	26 (10)
17	3 (1)	5 (2)	45 (5)	64 (8)	35 (6)	50 (9)	60 (7)	86 (10)	35 (5)	50 (7)	40 (14)	57 (20)
18	4 (2)	9 (6)	43 (13)	61 (18)	36 (14)	51 (20)	55 (16)	79 (23)	37 (16)	53 (24)	20 (7)	28 (10)
19	2 (1)	1 (1)	47 (6)	68 (8)	46 (9)	65 (13)	60 (5)	87 (8)	37 (12)	53 (17)	22 (6)	32 (9)
20	1 (2)	5 (4)	66 (3)	94 (5)	58 (7)	84 (10)	72 (6)	103 (8)	54 (7)	77 (10)	21 (7)	30 (10)
21	3 (1)	1 (0)	66 (12)	94 (17)	38 (17)	55 (24)	62 (8)	89 (12)	41 (13)	58 (18)	8 (2)	12 (3)
22	2 (1)	5 (4)	52 (14)	74 (20)	35 (8)	50 (11)	59 (9)	85 (12)	26 (7)	37 (10)	22 (17)	31 (25)
23	3 (2)	3 (2)										
24	-1 (1)	2 (3)										
25	2 (1)	9 (3)	30 (8)	43 (11)	23 (9)	34 (12)	32 (8)	46 (11)	26 (6)	38 (8)	9 (3)	14 (4)
26	1 (1)	1 (1)	42 (8)	60 (11)	36 (7)	52 (9)	46 (8)	65 (11)	25 (4)	36 (6)	7 (2)	10 (3)
27	1 (1)	1 (1)	56 (7)	79 (10)	42 (5)	60 (7)	62 (6)	88 (8)	29 (4)	41 (5)	7 (4)	10 (6)
28	0 (0)	0 (0)	63 (7)	90 (10)	35 (8)	50 (12)	73 (6)	104 (8)	35 (5)	50 (7)	9 (2)	12 (3)
29	1 (1)	1 (1)	60 (8)	86 (11)	45 (5)	64 (7)	82 (8)	117 (11)	47 (6)	67 (8)	7 (3)	10 (4)
30	2 (1)	3 (2)	54 (13)	78 (18)	37 (12)	52 (18)	74 (11)	106 (16)	44 (5)	62 (7)	6 (3)	9 (4)
Avg	1	2	59	85	35	51	63	90	36	52	22.5	32.2
n	30	30	27	27	27	27	27	27	27	27	27	27
SD	1	3	15	22	8	12	16	22	9	13	13.3	18.9
Min	-2	-2	30	43	23	33	32	46	23	34	3.0	4.2
Max	4	9	93	134	58	84	98	140	56	81	50.2	71.5

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for May, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (1)	5 (4)	46 (14)	66 (21)	32 (5)	47 (8)	58 (21)	83 (30)	36 (5)	51 (7)	19 (17)	27 (25)
2	4 (1)	10 (3)	45 (7)	65 (10)	41 (5)	59 (8)	54 (9)	78 (13)	41 (4)	59 (6)	21 (6)	31 (8)
3	1 (1)	4 (5)	60 (11)	86 (16)	41 (11)	59 (16)	72 (8)	104 (11)	48 (5)	69 (8)	21 (6)	30 (8)
4	1 (1)	1 (2)	60 (12)	85 (17)	45 (5)	65 (8)	70 (13)	100 (18)	43 (4)	61 (6)	28 (4)	41 (5)
5	0 (1)	2 (2)	49 (16)	70 (23)	32 (16)	46 (23)	55 (16)	79 (24)	38 (10)	54 (15)	25 (5)	36 (7)
6	3 (1)	2 (2)	35 (17)	50 (24)	21 (8)	30 (12)	44 (19)	62 (27)	23 (7)	32 (10)	28 (7)	40 (10)
7	2 (2)	4 (3)	35 (12)	51 (18)	28 (7)	40 (11)	44 (9)	64 (13)	26 (4)	38 (6)	22 (9)	32 (12)
8	1 (2)	1 (1)	70 (8)	100 (11)	39 (5)	56 (7)	67 (5)	96 (7)	32 (9)	46 (12)	11 (14)	15 (20)
9	0 (0)	1 (2)	72 (13)	104 (19)	37 (2)	52 (3)	83 (7)	119 (11)	29 (5)	41 (8)	7 (5)	9 (7)
10	1 (1)	1 (1)	58 (21)	82 (29)	30 (10)	43 (14)	81 (11)	116 (16)	28 (5)	41 (7)	10 (4)	14 (6)
11	1 (1)	1 (1)	67 (9)	96 (13)	36 (5)	52 (7)	88 (5)	126 (7)	26 (5)	37 (7)	8 (4)	11 (6)
12	0 (1)	2 (1)	74 (15)	106 (22)	39 (6)	56 (9)	90 (7)	128 (10)	31 (2)	44 (3)	30 (34)	43 (48)
13	5 (2)	6 (4)	63 (19)	90 (27)	37 (6)	53 (8)	71 (22)	102 (32)	30 (7)	42 (10)	39 (28)	56 (40)
14	1 (1)	3 (2)	76 (17)	109 (24)	41 (5)	59 (8)	89 (18)	128 (25)	47 (4)	67 (6)	44 (12)	62 (17)
15	2 (2)	1 (2)	103 (15)	147 (22)	44 (5)	63 (7)	110 (10)	158 (15)	48 (2)	69 (3)	11 (9)	16 (13)
16	1 (2)	3 (2)	83 (19)	119 (28)	41 (10)	58 (14)	102 (8)	147 (12)	50 (8)	72 (11)	32 (10)	46 (14)
17	1 (1)	1 (1)	70 (19)	101 (27)	35 (7)	50 (11)	100 (16)	144 (23)	39 (9)	56 (13)	42 (35)	61 (51)
18	0 (1)	1 (1)	97 (11)	140 (15)	49 (4)	70 (6)	108 (6)	155 (9)	47 (3)	67 (5)	24 (12)	34 (17)
19	1 (1)	2 (1)	91 (24)	130 (34)	47 (9)	68 (13)	101 (15)	146 (22)	48 (6)	69 (8)	27 (5)	38 (7)
20	2 (0)	3 (2)	80 (14)	115 (20)	43 (5)	62 (7)	94 (15)	135 (22)	52 (5)	74 (8)	24 (7)	34 (10)
21	1 (1)	2 (1)	79 (16)	113 (23)	45 (6)	64 (9)	100 (11)	143 (15)	48 (5)	68 (7)	27 (16)	38 (23)
22	1 (1)	1 (1)	71 (16)	110 (17)	41 (7)	61 (8)	94 (13)	136 (17)	47 (6)	65 (10)	22 (18)	31 (26)
23	1 (1)	1 (1)	68 (12)	98 (17)	42 (8)	60 (11)	88 (11)	126 (17)	47 (9)	67 (13)	21 (9)	30 (13)
24	2 (0)	1 (1)	71 (16)	102 (23)	39 (10)	57 (14)	89 (16)	128 (23)	41 (8)	58 (12)	16 (12)	23 (18)
25	2 (1)	5 (3)	67 (18)	95 (26)	35 (11)	51 (16)	71 (23)	102 (33)	34 (8)	49 (11)	19 (11)	27 (15)
26	2 (1)	2 (2)	51 (14)	74 (20)	24 (8)	35 (11)	53 (16)	76 (23)	25 (7)	35 (9)	26 (6)	38 (8)
27	0 (1)	1 (1)	61 (10)	87 (15)	38 (5)	55 (8)	62 (8)	89 (11)	25 (4)	35 (6)	16 (10)	22 (14)
28	-1 (1)	0 (1)	62 (19)	88 (27)	37 (8)	53 (12)	60 (7)	86 (10)	21 (4)	30 (5)	7 (7)	9 (9)
29	1 (1)	2 (1)	48 (19)	69 (27)	27 (10)	38 (14)	51 (12)	73 (18)	18 (3)	26 (4)	22 (11)	32 (16)
30	1 (1)	3 (1)	39 (11)	56 (16)	26 (7)	37 (11)	43 (9)	61 (12)	22 (5)	31 (7)	18 (5)	25 (7)
31	1 (0)	2 (1)	52 (10)	75 (14)	29 (7)	42 (10)	53 (8)	77 (12)	28 (4)	40 (5)	23 (4)	33 (6)
Avg	1	2	65	93	37	53	76	108	36	51	22.2	31.7
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	2	17	24	7	10	21	29	10	15	9.3	13.3
Min	-1	0	35	50	21	30	43	61	18	26	6.5	9.3
Max	5	10	103	147	49	70	110	158	52	74	43.5	62.2

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for June, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	3 (1)	58 (8)	84 (11)	33 (8)	48 (11)	58 (11)	83 (16)	28 (5)	41 (8)	17 (11)	25 (16)
2	3 (2)	2 (1)	46 (21)	66 (31)	24 (14)	35 (21)	48 (14)	69 (20)	21 (7)	29 (10)	20 (7)	28 (10)
3	1 (1)	1 (1)	47 (7)	68 (10)	32 (4)	46 (6)	52 (5)	74 (7)	28 (5)	40 (7)	15 (9)	22 (13)
4	2 (1)	4 (3)	55 (10)	80 (14)	29 (9)	42 (13)	52 (7)	75 (10)	31 (7)	45 (11)	24 (10)	34 (14)
5	4 (2)	3 (1)	46 (14)	67 (20)	19 (7)	28 (10)	42 (14)	60 (21)	21 (5)	30 (7)	27 (8)	39 (11)
6	3 (1)	5 (3)	29 (8)	41 (11)	15 (4)	22 (6)	30 (5)	44 (7)	16 (6)	24 (8)	21 (5)	30 (8)
7	2 (2)	3 (3)	27 (4)	38 (5)	12 (2)	17 (2)	26 (3)	38 (4)	13 (2)	18 (3)	22 (5)	32 (7)
8	4 (1)	1 (0)	41 (11)	59 (16)	15 (2)	22 (3)	34 (6)	49 (8)	13 (2)	19 (3)	20 (3)	29 (4)
9	2 (1)	2 (0)	22 (5)	32 (7)	10 (2)	14 (2)	22 (3)	32 (5)	11 (2)	16 (3)	23 (9)	33 (13)
10	0 (1)	2 (1)	24 (9)	35 (13)	9 (4)	13 (6)	29 (6)	41 (8)	15 (4)	21 (6)	26 (9)	38 (14)
11	2 (2)	0 (1)	21 (7)	30 (11)	13 (6)	19 (8)	29 (12)	42 (17)	14 (5)	20 (7)	40 (12)	57 (18)
12	3 (1)	1 (1)	25 (6)	36 (9)	15 (5)	21 (7)	25 (6)	35 (9)	13 (2)	18 (2)	21 (11)	30 (16)
13	2 (1)	5 (4)	38 (10)	55 (14)	24 (6)	35 (8)	37 (11)	53 (15)	22 (5)	32 (7)	31 (7)	45 (10)
14	2 (1)	3 (2)	42 (20)	60 (29)	23 (11)	32 (17)	42 (16)	61 (23)	25 (8)	36 (12)	36 (17)	52 (25)
15	1 (1)	2 (2)	33 (8)	47 (12)	19 (6)	27 (8)	32 (10)	45 (14)	16 (4)	23 (5)	29 (13)	41 (18)
16	0 (1)	1 (1)	38 (9)	55 (13)	23 (7)	33 (10)	39 (7)	55 (10)	21 (4)	31 (5)	14 (7)	20 (9)
17	1 (1)	0 (0)	35 (7)	50 (11)	23 (6)	33 (9)	40 (5)	57 (7)	21 (4)	30 (6)	19 (13)	28 (18)
18	1 (1)	1 (0)	33 (9)	48 (12)	20 (5)	29 (8)	37 (9)	54 (13)	19 (4)	27 (6)	12 (9)	17 (13)
19	1 (1)	2 (1)	31 (11)	45 (16)	20 (7)	29 (10)	34 (10)	49 (14)	18 (4)	26 (6)	16 (8)	23 (11)
20	2 (1)	0 (1)	20 (12)	29 (17)	15 (10)	22 (14)	23 (12)	33 (17)	13 (3)	19 (5)	30 (15)	43 (21)
21	-1 (1)	1 (1)	28 (6)	40 (9)	21 (6)	29 (8)	27 (4)	38 (6)	17 (3)	25 (4)	20 (10)	29 (14)
22	2 (1)	2 (1)	41 (10)	59 (14)	29 (7)	42 (10)	38 (7)	54 (11)	23 (3)	33 (4)	22 (9)	32 (13)
23	0 (1)	0 (1)	45 (11)	64 (16)	28 (9)	40 (12)	40 (7)	57 (10)	22 (3)	32 (4)	12 (5)	17 (7)
24	1 (1)	2 (1)	37 (12)	54 (18)	25 (9)	35 (13)	38 (8)	55 (11)	23 (5)	33 (7)	14 (6)	20 (9)
25	2 (1)	3 (2)	35 (7)	50 (10)	23 (6)	33 (8)					18 (5)	26 (7)
26	3 (1)	1 (1)	40 (8)	58 (12)	24 (6)	34 (8)	43 (7)	62 (11)	26 (4)	38 (6)	33 (7)	47 (10)
27	3 (1)	3 (2)	39 (14)	57 (20)	28 (5)	41 (7)	51 (8)	74 (11)	31 (2)	45 (3)	34 (7)	50 (10)
28	1 (1)	1 (1)	37 (12)	53 (17)	22 (8)	31 (12)	41 (12)	59 (18)	25 (7)	36 (11)	37 (8)	53 (12)
29	1 (1)	1 (1)	38 (6)	41 (9)	32 (5)	48 (10)	22 (2)	33 (2)	28 (5)	36 (5)	44 (8)	64 (11)
30	0 (1)	2 (1)	45 (15)	59 (24)	30 (12)	53 (18)	35 (13)	47 (19)	29 (7)	38 (6)	19 (7)	27 (11)
Avg	2	2	37	52	22	32	37	53	21	30	23.9	34.3
n	30	30	30	30	30	30	29	29	29	29	30	30
SD	1	1	9	14	7	10	9	14	6	8	8.4	12.1
Min	-1	0	20	29	9	13	22	32	11	16	11.7	16.7
Max	4	5	58	84	33	53	58	83	31	45	44.3	63.6

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for July, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (0)	1 (1)	29 (18)	64 (34)	17 (9)	32 (17)	37 (11)	50 (14)	17 (6)	20 (5)	40 (14)	57 (20)
2	1 (1)	1 (1)	19 (7)	40 (17)	12 (4)	24 (11)	26 (10)	37 (15)	14 (5)	14 (4)	30 (9)	44 (12)
3	1 (1)	1 (2)	32 (6)	65 (6)	16 (3)	28 (7)	37 (4)	55 (6)	18 (3)	25 (3)	22 (18)	32 (26)
4	1 (1)	1 (1)	34 (12)	64 (17)	18 (7)	36 (15)	38 (8)	53 (13)	18 (3)	20 (4)	9 (10)	14 (14)
5	1 (1)	2 (1)	27 (12)	51 (24)	16 (6)	29 (12)	31 (9)	42 (12)	14 (3)	17 (3)	14 (8)	19 (12)
6	1 (1)	1 (1)	27 (10)	45 (20)	15 (6)	22 (10)	27 (10)	37 (14)	12 (3)	14 (5)	24 (14)	34 (21)
7	1 (1)	1 (0)	23 (11)	41 (14)	12 (4)	20 (6)	29 (5)	43 (8)	16 (1)	24 (4)	28 (10)	41 (14)
8	2 (1)	3 (2)	20 (6)	42 (9)	14 (3)	24 (5)	29 (5)	39 (7)	19 (3)	30 (6)	22 (5)	32 (7)
9	2 (0)	2 (1)										
10	2 (1)	1 (1)	19 (10)	37 (18)	14 (6)	29 (17)	26 (12)	38 (20)	21 (4)	35 (7)	44 (22)	63 (32)
11	3 (1)	2 (1)	26 (10)	53 (25)	16 (5)	30 (12)	33 (12)	48 (21)	22 (4)	36 (7)	38 (9)	54 (12)
12	1 (1)	6 (1)	32 (9)	56 (15)	23 (6)	40 (9)	36 (6)	53 (11)	31 (6)	54 (18)	28 (7)	40 (10)
13	1 (1)	3 (2)										
14	2 (0)	2 (2)	32 (16)	58 (27)	31 (12)	52 (18)	39 (16)	59 (24)	33 (6)	46 (9)	20 (10)	29 (14)
15	2 (2)	1 (1)	24 (12)	46 (23)	21 (11)	36 (22)	29 (12)	43 (18)	23 (7)	35 (12)	27 (10)	39 (14)
16	3 (2)	2 (1)	21 (8)	37 (15)	18 (5)	32 (11)	32 (4)	52 (9)	25 (4)	43 (9)	27 (7)	38 (10)
17	3 (2)	2 (1)	20 (9)	37 (16)	14 (7)	21 (12)	25 (8)	35 (11)	22 (6)	41 (12)	26 (5)	37 (8)
18	2 (1)	1 (1)	12 (2)		9 (1)		17 (4)		16 (7)		28 (8)	
19	4 (1)	5 (4)	19 (5)	37 (14)	11 (4)	18 (9)	21 (3)	30 (4)	17 (4)	25 (7)	28 (7)	41 (9)
20	2 (1)	2 (1)	29 (6)	44 (11)	22 (5)	30 (8)	26 (6)	36 (10)	19 (4)	28 (7)	22 (8)	31 (11)
21	4 (2)	6 (4)	32 (9)	54 (14)	23 (4)	38 (5)	37 (7)	53 (11)	33 (7)	54 (15)	23 (9)	33 (13)
22	3 (1)	7 (1)	34 (15)	66 (26)	22 (5)	43 (8)	44 (10)	63 (16)	38 (6)	63 (12)	17 (6)	25 (9)
23	1 (1)	4 (1)	31 (17)	55 (35)	22 (10)	41 (23)	40 (15)	60 (23)	34 (8)	49 (12)	15 (6)	21 (9)
24	1 (1)	1 (1)	28 (14)	40 (20)	22 (10)	31 (15)	34 (12)	48 (18)	27 (9)	39 (13)	24 (11)	35 (16)
25	3 (1)	2 (1)	27 (13)	38 (19)	22 (9)	31 (13)	29 (8)	42 (11)	22 (3)	31 (4)	28 (8)	41 (11)
26	2 (2)	3 (2)	27 (11)	39 (17)	20 (6)	29 (9)	31 (11)	45 (15)	29 (8)	41 (11)	21 (6)	30 (9)
27	3 (1)	2 (2)	29 (13)	42 (19)	25 (8)	36 (12)	27 (11)	39 (15)	21 (7)	30 (10)	23 (8)	34 (11)
28	3 (2)	1 (1)	25 (12)	36 (17)	19 (7)	27 (9)	26 (7)	37 (10)	22 (3)	32 (5)	21 (13)	30 (19)
29	3 (3)	2 (1)	20 (11)	28 (15)	13 (6)	19 (8)	25 (8)	35 (11)	17 (5)	25 (7)	33 (11)	48 (16)
30	1 (1)	1 (1)	15 (6)	21 (9)	10 (3)	15 (5)	15 (5)	22 (8)	12 (4)	18 (6)	17 (7)	24 (10)
31	0 (1)	2 (1)	15 (6)	22 (9)	9 (3)	13 (4)	13 (3)	19 (5)	10 (3)	14 (4)	12 (3)	18 (5)
Avg	2	2	25	45	17	30	30	43	21	32	24.5	35.1
n	31	31	29	28	29	28	29	28	29	28	29	28
SD	1	2	6	12	5	9	7	11	7	13	7.8	11.3
Min	0	1	12	21	9	13	13	19	10	14	9.5	13.5
Max	4	7	34	66	31	52	44	63	38	63	43.9	63.1

ED_001509B_00005068-00217

Table F10. Daily means (SD) of H2S concentrations at site IN2B for August, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (2)	0 (1)	14 (6)	20 (8)	8 (2)	12 (3)	12 (5)	17 (7)	8 (2)	12 (3)	12 (4)	18 (6)
2	3 (1)	5 (1)	7 (3)	10 (4)	8 (1)	11 (2)	11 (2)	16 (3)	16 (2)	23 (3)	17 (3)	24 (4)
3	2 (1)	2 (2)	7 (1)	10 (1)	7 (2)	9 (3)	9 (1)	13 (2)	10 (3)	14 (4)	17 (6)	24 (8)
4	3 (1)	4 (3)	8 (1)	11 (2)	7 (2)	10 (3)	10 (2)	14 (2)	10 (2)	14 (3)	19 (10)	27 (14)
5	4 (2)	3 (2)										
6	6 (2)	8 (2)	24 (12)	35 (17)	19 (5)	28 (7)	26 (10)	38 (14)	31 (4)	44 (6)	23 (5)	33 (8)
7	3 (1)	6 (2)	20 (9)	28 (13)	17 (6)	24 (9)	28 (9)	40 (13)	27 (6)	38 (9)		
8	1 (1)	2 (0)	20 (7)	28 (10)	15 (4)	21 (5)	22 (6)	32 (9)	19 (3)	27 (4)	17 (6)	24 (8)
9	1 (1)	1 (1)	23 (9)	33 (13)	19 (6)	28 (8)	29 (8)	42 (11)	23 (6)	34 (8)	22 (4)	31 (6)
10	1 (0)	2 (1)	33 (7)	47 (10)	29 (5)	42 (7)	34 (9)	50 (13)	29 (5)	42 (8)	12 (5)	17 (7)
11	2 (1)	4 (2)	35 (14)	50 (20)	26 (9)	38 (12)	35 (6)	51 (9)	25 (5)	36 (7)	24 (17)	35 (24)
12	1 (1)	3 (2)	28 (12)	41 (18)	24 (8)	34 (12)	30 (9)	43 (13)	19 (4)	28 (5)	20 (10)	29 (15)
13	3 (2)	2 (1)	32 (6)	45 (9)	25 (5)	36 (8)	32 (5)	45 (7)	24 (6)	34 (8)	17 (7)	24 (11)
14	3 (1)	4 (1)	31 (10)	45 (14)	27 (6)	38 (9)	30 (6)	44 (9)	22 (3)	31 (4)	12 (5)	18 (7)
15	2 (1)	2 (1)	30 (14)	43 (20)	24 (9)	35 (13)	33 (5)	47 (7)	22 (4)	32 (5)	9 (5)	13 (8)
16	1 (1)	4 (1)	25 (9)	35 (14)	21 (6)	30 (8)	27 (7)	38 (10)	21 (3)	31 (4)	14 (6)	20 (9)
17	1 (0)	1 (1)	27 (8)	38 (12)	25 (4)	35 (6)	23 (6)	32 (8)	18 (4)	26 (5)	13 (4)	18 (5)
18	1 (1)	0 (1)	23 (10)	33 (14)	20 (7)	29 (10)	21 (6)	30 (8)	17 (4)	25 (6)	13 (2)	18 (3)
19	1 (1)	4 (3)	20 (9)	28 (13)	17 (5)	24 (7)	19 (6)	27 (9)	15 (4)	21 (5)	8 (7)	11 (10)
20	0 (1)	0 (1)	19 (10)	27 (14)	18 (6)	26 (9)	18 (6)	25 (9)	13 (3)	18 (4)	2 (1)	3 (1)
21	2 (2)	0 (1)	18 (6)	26 (9)	18 (6)	26 (9)	15 (3)	22 (4)	13 (3)	18 (4)	7 (8)	10 (12)
22	2 (1)	2 (1)	22 (6)	31 (9)	19 (4)	28 (5)	21 (5)	30 (7)	19 (2)	27 (3)	18 (8)	26 (12)
23	3 (2)	2 (1)	24 (10)	35 (15)	20 (6)	28 (9)	24 (5)	35 (8)	19 (4)	28 (5)	18 (4)	25 (6)
24	2 (1)	3 (1)	27 (8)	38 (11)	25 (5)	36 (7)	21 (5)	30 (8)	20 (3)	28 (4)	7 (4)	10 (6)
25	1 (1)	0 (1)	29 (11)	41 (15)	28 (8)	40 (12)	21 (7)	30 (10)	17 (5)	24 (7)	2 (3)	3 (4)
26	1 (1)	0 (1)	24 (11)	34 (16)	23 (9)	33 (13)	17 (5)	25 (7)	14 (3)	20 (4)	1 (1)	2 (1)
27	2 (1)	0 (1)	18 (8)	25 (12)	18 (6)	25 (8)	18 (5)	26 (7)	12 (2)	17 (3)	2 (2)	2 (2)
28	1 (1)	0 (1)	18 (6)	25 (8)	18 (6)	26 (8)	16 (3)	23 (4)	15 (3)	21 (4)	10 (5)	14 (7)
29	1 (1)	5 (3)	15 (7)	22 (10)	13 (5)	19 (8)	14 (4)	20 (5)	15 (3)	21 (4)	9 (4)	13 (5)
30	2 (1)	3 (2)	12 (6)	17 (9)	11 (5)	16 (8)	13 (6)	18 (8)	13 (4)	19 (5)	8 (5)	11 (8)
31	0 (0)	1 (1)	11 (5)	15 (7)	11 (4)	16 (6)	10 (4)	15 (6)	9 (1)	13 (2)	6 (6)	8 (9)
Avg	2	2	21	31	19	27	21	31	18	26	12.3	17.6
n	31	31	30	30	30	30	30	30	30	30	29	29
SD	1	2	8	11	6	9	8	11	6	8	6.4	9.2
Min	0	0	7	10	7	9	9	13	8	12	1.3	1.9
Max	6	8	35	50	29	42	35	51	31	44	24.3	34.8

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for September, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	0 (1)	1 (1)	10 (6)	14 (9)	9 (6)	13 (8)	9 (4)	13 (6)	8 (2)	12 (3)	3 (3)	4 (5)
2	1 (1)	1 (1)	8 (4)	12 (6)	9 (3)	12 (5)	9 (3)	13 (4)	8 (1)	11 (1)	7 (6)	10 (8)
3	1 (1)	2 (1)	11 (4)	16 (6)	9 (2)	13 (3)	10 (3)	14 (4)	9 (3)	14 (4)	11 (6)	16 (8)
4	2 (1)	3 (4)	23 (5)	34 (8)	17 (4)	25 (6)	19 (5)	27 (7)	13 (3)	19 (5)	5 (3)	7 (4)
5	1 (1)	6 (3)	31 (5)	44 (8)	25 (4)	36 (6)	32 (6)	47 (9)	26 (8)	38 (12)	9 (3)	14 (4)
6	2 (1)	3 (1)	32 (10)	46 (15)	31 (5)	44 (8)	35 (6)	51 (8)	28 (7)	40 (10)	15 (8)	21 (12)
7	1 (1)	1 (1)	36 (5)	52 (7)	38 (5)	55 (7)	35 (4)	51 (5)	29 (7)	42 (10)	14 (4)	20 (6)
8	1 (0)											
9	0 (0)											
10	1 (0)											
11	2 (2)	2 (2)	26 (12)	38 (17)	25 (8)	36 (11)	22 (5)	32 (8)	15 (3)	21 (4)	13 (9)	19 (13)
12	3 (2)	3 (2)	27 (4)	39 (5)	21 (5)	30 (7)	20 (3)	29 (5)	17 (3)	24 (4)	19 (6)	28 (9)
13	4 (1)	3 (1)	21 (6)	30 (9)	19 (5)	28 (7)	17 (4)	25 (5)	15 (5)	22 (7)	14 (5)	20 (8)
14	2 (2)	4 (2)	30 (10)	43 (14)	31 (12)	45 (17)	24 (8)	34 (11)	23 (8)	33 (11)	13 (5)	19 (8)
15	1 (1)	3 (1)	39 (8)	56 (11)	36 (7)	51 (10)	36 (2)	52 (3)	28 (4)	41 (6)	13 (5)	19 (7)
16	3 (1)	2 (1)	33 (8)	47 (11)	32 (4)	46 (5)	35 (3)	50 (4)	25 (6)	36 (9)	23 (13)	33 (18)
17	2 (1)	1 (1)	27 (11)	38 (16)	28 (9)	40 (13)	28 (5)	40 (8)	23 (4)	33 (5)	36 (25)	51 (36)
18	1 (1)	0 (1)										
19	2 (1)	1 (1)	28 (12)	40 (17)	27 (8)	38 (11)	26 (5)	37 (7)	23 (5)	33 (7)	17 (9)	24 (12)
20	3 (1)	3 (2)	23 (8)	33 (12)	26 (6)	37 (8)	25 (7)	36 (9)	20 (3)	29 (4)	34 (21)	49 (30)
21	1 (0)	3 (2)	26 (7)	37 (11)	33 (6)	47 (8)	23 (6)	32 (9)	22 (2)	31 (3)	19 (15)	28 (21)
22	0 (0)	2 (1)	25 (9)	36 (14)	30 (8)	43 (12)	23 (5)	34 (8)	20 (3)	29 (4)	5 (4)	8 (6)
23	1 (1)	4 (1)	22 (12)	31 (17)	27 (7)	38 (10)	23 (9)	33 (14)	19 (3)	27 (5)	17 (12)	24 (17)
24	2 (0)	2 (2)	14 (8)	20 (11)	20 (9)	28 (14)	17 (6)	24 (9)	16 (3)	23 (5)	25 (12)	35 (17)
25	1 (1)	1 (0)	13 (6)	18 (9)	15 (5)	21 (8)	13 (5)	19 (8)	13 (3)	18 (4)	14 (9)	20 (13)
26	1 (1)	1 (0)	13 (5)	18 (7)	15 (5)	21 (8)	12 (3)	17 (5)	12 (2)	17 (4)	7 (4)	9 (5)
27	1 (1)	1 (1)	16 (5)	22 (8)	15 (4)	21 (6)	14 (3)	21 (5)	12 (2)	18 (3)	12 (6)	17 (8)
28	1 (1)	2 (1)	19 (5)	27 (8)	17 (10)	25 (14)	18 (4)	26 (6)	10 (3)	15 (5)	16 (7)	23 (10)
29	0 (1)	0 (1)	23 (7)	33 (11)	21 (13)	30 (19)	23 (2)	33 (3)	13 (3)	18 (5)	13 (7)	18 (10)
30	0 (1)	0 (1)	29 (5)	41 (7)	11 (8)	16 (12)	29 (4)	41 (6)	9 (3)	13 (4)	14 (7)	21 (9)
Avg	1	2	23	33	22	32	22	32	18	25	14.8	21.3
n	30	27	26	26	26	26	26	26	26	26	26	26
SD	1	1	8	12	8	12	8	12	7	9	7.7	11.0
Min	0	0	8	12	9	12	9	13	8	11	2.9	4.2
Max	4	6	39	56	38	55	36	52	29	42	35.6	51.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for October, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (0)	1 (1)	31 (7)	45 (9)	5 (2)	7 (3)	30 (4)	44 (6)	7 (2)	10 (3)	7 (3)	9 (4)
2	0 (1)	2 (3)	29 (8)	42 (11)	5 (2)	6 (3)	27 (4)	39 (6)	4 (2)	6 (3)	6 (2)	9 (3)
3	1 (1)	-1 (1)	29 (6)	41 (8)	16 (10)	22 (15)	25 (4)	36 (6)	2 (1)	2 (1)		
4	0 (0)	0 (1)	33 (8)	47 (12)	31 (4)	44 (6)	22 (5)	31 (7)	3 (2)	4 (3)	3 (2)	4 (3)
5	-1 (0)	0 (1)	36 (7)	52 (10)	33 (8)	46 (12)	20 (4)	29 (6)	2 (1)	2 (1)	2 (1)	3 (1)
6	0 (1)	1 (1)	32 (10)	45 (14)	12 (14)	17 (20)	23 (4)	33 (6)	1 (2)	2 (2)	0 (2)	0 (2)
7	1 (1)	1 (1)	28 (8)	40 (12)	1 (1)	2 (1)	21 (6)	30 (9)	2 (3)	2 (4)	2 (2)	2 (2)
8	1 (1)	2 (2)	34 (4)	48 (6)	2 (1)	3 (1)	27 (4)	39 (6)	3 (1)	4 (2)	3 (3)	5 (4)
9	1 (0)	1 (1)	35 (10)	50 (15)	1 (1)	2 (1)	32 (5)	46 (8)	4 (2)	5 (2)	5 (2)	7 (3)
10	0 (1)	0 (1)	23 (10)	32 (14)	0 (1)	0 (1)	19 (3)	28 (4)	0 (1)	1 (1)	1 (2)	2 (2)
11	0 (1)	0 (0)	16 (8)	23 (11)	0 (1)	0 (1)	15 (5)	22 (7)	0 (1)	1 (1)	2 (2)	3 (2)
12	1 (0)	0 (1)	17 (8)	24 (12)	1 (1)	1 (2)	11 (4)	16 (6)	0 (1)	1 (1)	3 (2)	4 (3)
13	0 (1)	0 (0)	14 (6)	20 (9)	1 (1)	1 (2)	11 (3)	15 (5)	0 (1)	0 (1)	5 (2)	7 (3)
14	1 (1)	0 (0)	19 (3)	27 (4)	3 (1)	4 (2)	15 (3)	22 (5)	2 (1)	2 (1)	4 (2)	6 (2)
15	0 (0)	0 (1)	27 (6)	39 (9)	4 (1)	6 (2)	21 (5)	30 (7)	2 (2)	2 (2)	3 (2)	4 (2)
16	1 (1)	1 (1)	36 (7)	51 (9)	5 (3)	7 (4)	24 (5)	34 (7)	2 (1)	3 (2)	3 (2)	5 (2)
17	-1 (1)	0 (1)	31 (5)	45 (8)	3 (1)	4 (2)	17 (6)	24 (9)	0 (1)	0 (2)	6 (4)	8 (6)
18	-1 (1)	-3 (1)	37 (8)	53 (12)	4 (2)	6 (2)	18 (4)	25 (6)	-1 (1)	-1 (2)	6 (5)	8 (7)
19	1 (1)	0 (2)	41 (6)	58 (8)	12 (5)	18 (7)	15 (8)	21 (11)	-1 (1)	-1 (1)	3 (2)	4 (3)
20	0 (2)	0 (2)	32 (8)	45 (12)	9 (8)	14 (11)	17 (11)	24 (16)	1 (1)	1 (2)	5 (2)	8 (4)
21	-1 (1)	1 (1)	27 (5)	38 (8)	8 (2)	11 (3)	16 (4)	23 (6)	2 (2)	2 (2)	14 (10)	20 (14)
22	-1 (1)	-1 (0)	29 (5)	41 (7)	6 (5)	9 (7)	13 (6)	19 (8)	1 (1)	1 (1)	8 (8)	11 (11)
23	-1 (0)	-2 (1)	26 (6)	38 (8)	3 (2)	5 (3)	21 (3)	30 (5)	1 (1)	1 (2)	1 (2)	1 (3)
24	1 (2)	0 (1)	29 (5)	41 (7)	8 (3)	12 (4)	25 (5)	36 (7)	2 (1)	2 (2)	18 (11)	26 (16)
25	-1 (1)	-1 (1)	37 (6)	53 (9)	15 (3)	22 (4)	29 (5)	42 (7)	5 (1)	8 (1)	17 (3)	24 (5)
26	-1 (1)	-2 (1)	46 (10)	65 (14)	17 (5)	24 (7)	17 (8)	24 (12)	5 (2)	7 (3)	13 (5)	18 (7)
27	-1 (1)	-1 (1)	44 (8)	62 (12)	14 (7)	20 (10)	19 (5)	27 (6)	5 (2)	6 (3)	7 (5)	9 (7)
28	-2 (1)	-1 (0)	42 (7)	60 (11)	15 (4)	21 (6)	23 (5)	33 (8)	7 (2)	11 (3)	23 (9)	32 (13)
29	0 (1)	0 (2)	41 (10)	59 (15)	20 (4)	28 (5)	30 (6)	43 (9)	8 (1)	12 (2)	30 (15)	43 (21)
30	1 (1)	3 (3)	44 (10)	62 (14)	24 (5)	35 (8)	39 (12)	56 (17)	16 (11)	23 (15)	57 (35)	81 (49)
31	1 (1)	1 (3)	41 (9)	58 (13)	14 (10)	20 (14)	54 (14)	77 (20)	17 (13)	24 (18)	67 (31)	96 (44)
Avg	0	0	32	45	9	14	23	32	3	5	10.8	15.3
n	31	31	31	31	31	31	31	31	31	31	30	30
SD	1	1	8	12	9	12	9	12	4	6	15.3	21.8
Min	-2	-3	14	20	0	0	11	15	-1	-1	0.0	0.0
Max	1	3	46	65	33	46	54	77	17	24	67.0	95.7

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for November, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	0 (1)	1 (1)	47 (8)	67 (11)	19 (6)	27 (9)	55 (14)	79 (21)	19 (8)	27 (11)	84 (53)	120 (76)
2	1 (2)	4 (4)	55 (5)	79 (7)	33 (6)	47 (8)	66 (5)	95 (7)	32 (7)	46 (10)	52 (41)	74 (58)
3	3 (2)	3 (3)	44 (12)	63 (17)	38 (10)	55 (15)	53 (7)	76 (10)	35 (13)	50 (18)	53 (24)	75 (34)
4	2 (2)	4 (2)	40 (14)	58 (19)	31 (19)	44 (27)	45 (7)	64 (9)	34 (23)	49 (33)	51 (42)	73 (60)
5	1 (1)	2 (1)										
6	-1 (1)	1 (1)	36 (10)	51 (14)	22 (6)	31 (8)	38 (5)	54 (7)	20 (7)	28 (10)	10 (11)	15 (15)
7	0 (1)	0 (1)	48 (9)	69 (13)	22 (12)	31 (17)	50 (8)	72 (12)	25 (14)	35 (20)	10 (6)	14 (8)
8	-2 (1)	-1 (1)	60 (8)	86 (11)	31 (6)	45 (9)	39 (6)	56 (9)	26 (4)	37 (6)	13 (4)	19 (6)
9	-1 (1)	-2 (0)	79 (4)	114 (6)	65 (16)	93 (22)	41 (4)	59 (6)	41 (6)	59 (8)	22 (3)	32 (4)
10	0 (1)	0 (1)	70 (15)	99 (21)	92 (14)	131 (20)	49 (8)	70 (12)	68 (13)	97 (18)	40 (22)	57 (32)
11	1 (1)	0 (2)	64 (7)	91 (9)	60 (39)	86 (56)	73 (22)	104 (32)	51 (24)	72 (34)	20 (18)	28 (25)
12	2 (2)	2 (2)	58 (8)	83 (11)	45 (11)	65 (15)	83 (12)	119 (17)	50 (12)	72 (17)	101 (53)	144 (76)
13	1 (2)	5 (5)	65 (4)	93 (6)	69 (8)	98 (12)	87 (12)	124 (17)	74 (8)	107 (12)	63 (21)	90 (29)
14	0 (1)	2 (2)	70 (5)	100 (8)	48 (30)	68 (43)	94 (22)	134 (31)	57 (31)	82 (44)	81 (69)	116 (99)
15	0 (1)	1 (1)	72 (11)	103 (15)	63 (8)	90 (11)	66 (9)	95 (13)	66 (6)	94 (8)	120 (32)	171 (46)
16	0 (1)	0 (1)	87 (4)	124 (6)	94 (12)	135 (16)	53 (11)	76 (16)	75 (21)	107 (29)	88 (17)	125 (25)
17	0 (0)	0 (1)	81 (9)	115 (14)	119 (12)	170 (17)	80 (19)	115 (27)	115 (9)	165 (13)	70 (21)	100 (30)
18	3 (6)	3 (7)	75 (14)	107 (21)	77 (56)	111 (80)	119 (17)	171 (25)	84 (42)	120 (60)	135 (154)	191 (219)
19	5 (5)	6 (7)										
20	2 (1)	1 (0)	36 (6)	52 (9)	83 (10)	118 (14)	22 (11)	31 (15)	95 (13)	136 (19)	90 (17)	128 (24)
21	2 (0)	2 (2)	40 (4)	57 (6)	73 (22)	104 (31)	24 (8)	35 (11)	106 (15)	151 (21)	104 (23)	147 (33)
22	5 (5)	9 (3)	35 (6)	50 (9)	42 (13)	60 (19)	19 (7)	27 (10)	74 (25)	106 (36)	141 (46)	200 (66)
23	10 (5)	13 (5)	41 (8)	58 (12)	57 (12)	82 (17)	28 (11)	40 (15)	63 (20)	90 (29)	150 (65)	214 (93)
24	3 (3)	6 (6)	48 (6)	68 (9)	56 (20)	80 (29)	32 (8)	46 (11)	71 (26)	102 (37)	93 (37)	132 (53)
25	0 (1)	-1 (1)	47 (5)	67 (8)	49 (8)	71 (11)	29 (6)	41 (9)	77 (11)	110 (16)	98 (23)	139 (32)
26	2 (1)	4 (3)	57 (7)	82 (11)	51 (9)	72 (13)	35 (13)	50 (18)	72 (14)	104 (21)	94 (25)	134 (36)
27	3 (2)	3 (4)	63 (8)	91 (11)	55 (12)	78 (17)	39 (7)	56 (11)	77 (16)	110 (23)	133 (70)	189 (100)
28	-6 (9)	-5 (8)	33 (23)	47 (33)	32 (29)	45 (41)	22 (20)	32 (28)	43 (49)	62 (70)	39 (39)	55 (55)
29	7 (4)	8 (2)	53 (8)	76 (11)	54 (8)	78 (11)	48 (16)	69 (23)	88 (14)	126 (20)	135 (65)	192 (92)
30												
Avg	1	2	56	80	55	78	51	74	61	87	77.4	110.0
n	29	29	27	27	27	27	27	27	27	27	27	27
SD	3	4	15	22	24	34	25	35	26	37	42.2	60.0
Min	-6	-5	33	47	19	27	19	27	19	27	10.0	14.3
Max	10	13	87	124	119	170	119	171	115	165	150.0	214.0

ED_001509B_00005068-00221

Table F10. Daily means (SD) of H2S concentrations at site IN2B for December, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24	3 (3)	10 (10)	58 (11)	84 (16)	73 (14)	105 (21)	57 (20)	82 (29)	117 (9)	168 (13)		
25	4 (1)	10 (5)	57 (12)	82 (17)	64 (11)	92 (15)	54 (15)	77 (22)	98 (24)	140 (34)	64 (20)	91 (28)
26	5 (2)	11 (2)	45 (5)	65 (7)	63 (10)	90 (14)	47 (6)	68 (8)	87 (11)	125 (16)	47 (22)	67 (32)
27	7 (3)	16 (5)	38 (4)	55 (6)	61 (5)	88 (8)	54 (16)	77 (23)	87 (14)	125 (20)	58 (14)	82 (20)
28	2 (3)	4 (6)	56 (4)	81 (6)	91 (10)	131 (15)	65 (6)	93 (8)	126 (11)	180 (16)	51 (25)	73 (36)
29	1 (2)	4 (6)	53 (5)	76 (7)	72 (17)	103 (25)	49 (8)	71 (12)	110 (14)	158 (20)	64 (22)	91 (31)
30	5 (2)	13 (9)	50 (5)	72 (7)	73 (9)	105 (13)	54 (16)	77 (23)	127 (18)	182 (25)	89 (39)	127 (56)
31	1 (2)	3 (2)	60 (5)	86 (7)	75 (12)	108 (17)	62 (4)	88 (6)	125 (17)	179 (24)	48 (18)	68 (26)
Avg	4	9	52	75	72	103	55	79	109	157	60.0	85.4
n	8	8	8	8	8	8	8	8	8	8	7	7
SD	2	4	7	10	9	13	5	8	16	23	13.6	19.4
Min	1	3	38	55	61	88	47	68	87	125	46.7	66.5
Max	7	16	60	86	91	131	65	93	127	182	89.2	127.0

ED_001509B_00005068-00222

Table F10. Daily means (SD) of H2S concentrations at site IN2B for January, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	9 (2)	9 (2)	59 (6)	85 (9)	56 (9)	81 (12)	48 (14)	69 (21)	68 (15)	97 (22)	66 (29)	94 (41)
2	2 (1)	5 (6)	59 (4)	85 (6)	65 (6)	93 (9)	64 (5)	91 (7)	86 (10)	123 (14)	82 (47)	116 (67)
3	7 (1)	8 (8)	56 (5)	81 (7)	56 (11)	81 (16)	60 (4)	86 (5)	82 (9)	117 (13)	29 (23)	41 (33)
4	3 (3)	5 (4)	56 (3)	80 (5)	76 (8)	108 (11)	53 (4)	76 (6)	83 (5)	120 (7)	44 (19)	62 (27)
5	1 (1)	11 (6)	51 (9)	73 (12)	74 (16)	106 (23)	53 (7)	76 (10)	78 (12)	112 (17)	62 (21)	88 (30)
6	4 (2)	24 (8)	51 (17)	73 (25)								
7	1 (4)	17 (27)	96 (7)	138 (10)	120 (21)	172 (30)	87 (24)	125 (34)	127 (13)	183 (19)	91 (41)	129 (58)
8	-1 (1)	0 (3)	102 (15)	146 (22)	114 (16)	163 (24)	101 (17)	144 (24)	151 (14)	217 (20)	101 (24)	143 (34)
9	10 (4)	19 (10)	89 (8)	128 (11)	126 (10)	181 (15)	86 (11)	123 (15)	149 (9)	214 (13)		
10	3 (2)	8 (6)	89 (10)	128 (14)	128 (11)	184 (15)	100 (11)	143 (16)	176 (15)	253 (21)	62 (54)	89 (77)
11	3 (0)	18 (6)	79 (9)	113 (13)	150 (6)	216 (9)	85 (10)	121 (14)	167 (12)	240 (17)	188 (79)	268 (112)
12	6 (4)	31 (9)	82 (8)	118 (11)	140 (18)	200 (26)	83 (7)	120 (10)	156 (6)	224 (9)	149 (29)	212 (42)
13	3 (2)	10 (7)	73 (15)	105 (21)	122 (15)	175 (22)	80 (12)	115 (17)	152 (16)	219 (23)	92 (14)	131 (19)
14	7 (2)	28 (7)	44 (6)	62 (8)	96 (12)	138 (18)	48 (4)	69 (6)	124 (17)	178 (24)	75 (52)	106 (74)
15	2 (2)	27 (33)	38 (10)	54 (14)	107 (34)	154 (49)	33 (7)	48 (11)	132 (39)	189 (55)	73 (7)	104 (11)
16	4 (4)	22 (9)	29 (4)	42 (5)	51 (22)	74 (32)	31 (4)	45 (6)	199 (85)	286 (120)	90 (37)	127 (52)
17	4 (6)	16 (11)	26 (5)	37 (8)	97 (20)	140 (29)	17 (9)	25 (13)	118 (49)	169 (70)	76 (25)	108 (36)
18	1 (1)	6 (6)	22 (3)	32 (5)	98 (8)	141 (12)	16 (4)	23 (5)	70 (8)	101 (12)	83 (13)	118 (19)
19	3 (1)	17 (2)	28 (4)	40 (6)	78 (14)	111 (20)	23 (4)	33 (6)	86 (9)	124 (13)	137 (60)	194 (86)
20	2 (1)	22 (10)	30 (5)	43 (7)	85 (12)	122 (18)	28 (2)	41 (3)	107 (18)	154 (26)	201 (49)	285 (70)
21	3 (2)	35 (16)	49 (12)	71 (17)	95 (16)	136 (23)	32 (2)	45 (3)	109 (22)	156 (32)	120 (37)	170 (53)
22	5 (4)	28 (12)	40 (5)	57 (6)	99 (13)	142 (18)	37 (7)	53 (10)	114 (21)	163 (31)	159 (77)	226 (109)
23	2 (2)	12 (15)	17 (8)	24 (11)	115 (14)	165 (21)	20 (6)	29 (9)	152 (46)	219 (66)	116 (40)	165 (56)
24	0 (1)	14 (6)	14 (3)	20 (5)	112 (16)	161 (24)	16 (6)	23 (9)	188 (15)	271 (21)	113 (36)	161 (51)
25	1 (1)	14 (4)	18 (5)	25 (7)	142 (9)	204 (13)	14 (3)	20 (4)	156 (10)	224 (14)	94 (17)	133 (24)
26	1 (1)	12 (4)	18 (6)	26 (8)	153 (16)	219 (22)	17 (4)	24 (5)	153 (14)	220 (20)	124 (24)	176 (34)
27	1 (1)	19 (3)	18 (3)	25 (5)	122 (28)	175 (40)	18 (6)	26 (9)	172 (25)	248 (36)	51 (41)	72 (59)
28	1 (1)	20 (8)	20 (4)	29 (6)	119 (14)	170 (21)	16 (6)	23 (8)	164 (30)	235 (44)	89 (28)	126 (40)
29	1 (1)	11 (11)	17 (5)	25 (7)	135 (18)	193 (25)	13 (5)	19 (7)	175 (17)	251 (24)	64 (18)	91 (26)
30	0 (1)	6 (6)	23 (7)	33 (10)	148 (17)	213 (25)	23 (10)	33 (14)	212 (28)	305 (40)	60 (7)	85 (9)
31	2 (1)	35 (12)	20 (4)	29 (6)	144 (13)	208 (18)	17 (4)	24 (6)	175 (11)	251 (16)	70 (15)	100 (21)
Avg	3	16	46	65	107	154	44	63	136	196	95.1	135.0
n	31	31	31	31	30	30	30	30	30	30	29	29
SD	3	9	27	38	29	42	29	41	40	57	40.4	57.4
Min	-1	0	14	20	51	74	13	19	68	97	28.5	40.6
Max	10	35	102	146	153	219	101	144	212	305	201.0	285.0

ED_001509B_00005068-00223

Table F10. Daily means (SD) of H2S concentrations at site IN2B for February, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	3 (1)	16 (3)	23 (4)	189 (20)	271 (29)	18 (5)	25 (8)	219 (12)	315 (17)	68 (9)	97 (12)
2	1 (0)	8 (5)	18 (5)	26 (7)	173 (32)	248 (46)	19 (7)	27 (10)	195 (26)	280 (38)	69 (13)	99 (19)
3	0 (0)	7 (2)										
4	1 (1)	18 (5)	23 (11)	33 (15)	150 (25)	215 (35)	11 (3)	15 (4)	149 (5)	214 (7)	62 (16)	87 (23)
5	4 (1)	25 (9)	24 (7)	34 (10)	143 (26)	205 (37)	13 (5)	18 (7)	140 (15)	202 (22)	72 (92)	102 (131)
6	8 (5)	18 (2)	22 (7)	31 (10)	167 (17)	240 (24)	17 (6)	24 (8)	259 (52)	372 (75)	78 (39)	111 (55)
7	1 (1)	7 (5)	14 (5)	20 (7)	158 (20)	228 (28)	11 (5)	16 (7)	215 (16)	310 (23)	36 (13)	51 (18)
8	2 (1)	11 (5)	17 (3)	24 (5)	211 (23)	303 (33)	15 (3)	21 (5)	246 (12)	355 (17)	69 (17)	99 (24)
9	1 (1)	7 (4)	14 (8)	21 (12)	129 (64)	185 (92)	11 (4)	16 (6)	161 (47)	231 (68)	31 (22)	44 (32)
10	1 (1)	6 (3)	8 (3)	11 (4)	70 (11)	101 (16)	8 (4)	11 (5)	94 (14)	134 (20)	42 (22)	61 (31)
11	2 (1)	6 (4)	6 (1)	9 (1)	77 (15)	111 (21)	6 (2)	8 (3)	97 (13)	139 (19)	39 (22)	55 (31)
12	-1 (1)	-1 (0)	6 (2)	8 (3)	98 (33)	140 (48)	5 (2)	7 (2)	106 (28)	152 (40)		
13	0 (1)	1 (1)	9 (5)	13 (7)	73 (14)	105 (19)	8 (4)	11 (6)	145 (5)	208 (7)	50 (32)	71 (46)
14	-1 (1)	1 (1)	10 (4)	14 (6)	72 (10)	103 (15)	9 (3)	13 (4)	139 (11)	199 (16)	41 (23)	58 (33)
15	0 (0)	3 (1)	10 (3)	15 (4)	87 (7)	125 (10)	11 (3)	16 (4)	126 (3)	181 (4)	76 (61)	108 (87)
16	0 (1)	2 (2)	14 (3)	20 (5)	81 (16)	116 (22)	14 (3)	21 (5)	119 (12)	170 (18)	54 (31)	77 (45)
17	1 (0)	8 (2)	18 (7)	25 (9)	72 (11)	103 (15)	17 (3)	25 (4)	122 (13)	175 (19)	31 (12)	44 (16)
18	1 (1)	3 (4)	16 (4)	23 (6)	70 (8)	101 (12)	20 (4)	29 (5)	133 (8)	191 (12)	45 (12)	64 (18)
19	-1 (1)	0 (0)	20 (4)	28 (6)	82 (9)	118 (14)	19 (5)	28 (7)	121 (34)	173 (49)	35 (8)	50 (11)
20	0 (1)	4 (2)	26 (6)	38 (8)	90 (13)	130 (19)	24 (2)	35 (3)	185 (33)	266 (48)	59 (37)	84 (52)
21	0 (1)	2 (3)	25 (4)	36 (6)	99 (13)	141 (19)	23 (5)	33 (7)	169 (46)	242 (67)	19 (8)	28 (11)
22	0 (0)	1 (1)	27 (5)	38 (7)	116 (28)	166 (40)	26 (6)	37 (8)				
23	2 (1)	6 (2)	36 (7)	52 (11)	98 (18)	141 (26)	42 (6)	60 (9)	169 (33)	243 (48)	47 (24)	67 (34)
24	5 (2)	9 (3)	36 (7)	52 (11)	93 (12)	133 (18)	49 (3)	71 (5)	200 (37)	287 (53)	56 (31)	80 (43)
25	5 (2)	7 (4)	27 (8)	39 (12)	88 (17)	127 (24)	45 (6)	65 (9)	172 (37)	247 (54)		
26	3 (1)	5 (2)	24 (3)	34 (4)	93 (7)	133 (11)	39 (3)	56 (5)	162 (16)	233 (23)	51 (24)	72 (34)
27	1 (1)	1 (1)	29 (6)	41 (8)	88 (12)	126 (18)	40 (7)	57 (9)	158 (13)	227 (18)	52 (16)	74 (22)
28	2 (1)	2 (1)	36 (6)	51 (9)	83 (12)	119 (17)	52 (3)	74 (4)	162 (14)	232 (20)	22 (23)	32 (33)
Avg	1	6	20	28	109	157	21	30	160	230	50.2	71.5
n	28	28	27	27	27	27	27	27	26	26	24	24
SD	2	6	9	13	40	57	14	20	42	61	16.4	23.3
Min	-1	-1	6	8	70	101	5	7	94	134	19.3	27.5
Max	8	25	36	52	211	303	52	74	259	372	77.8	111.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for March, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	2 (1)	41 (5)	59 (7)	97 (6)	140 (8)	54 (4)	77 (6)	167 (26)	239 (37)	23 (9)	33 (13)
2	3 (1)	3 (1)	44 (6)	63 (8)	95 (12)	137 (17)	61 (10)	87 (14)	152 (31)	218 (45)	33 (19)	47 (26)
3	6 (2)	10 (2)	43 (8)	62 (12)	91 (12)	131 (17)	72 (7)	103 (11)	183 (31)	262 (45)	93 (44)	132 (62)
4	9 (2)	9 (1)	41 (11)	59 (16)	92 (14)	132 (20)	65 (7)	93 (10)	177 (28)	254 (40)	66 (45)	93 (63)
5	4 (4)	9 (4)	30 (8)	43 (12)	81 (17)	116 (25)	54 (8)	78 (11)	135 (22)	194 (32)	43 (25)	61 (36)
6	1 (1)	0 (1)	27 (3)	38 (5)	85 (9)	122 (13)	43 (4)	61 (5)	141 (15)	203 (22)	71 (32)	102 (45)
7	1 (1)	2 (1)	27 (6)	39 (8)	82 (10)	119 (14)	42 (4)	61 (6)	129 (15)	186 (22)	51 (28)	72 (39)
8	0 (1)	0 (1)	40 (6)	58 (9)	104 (10)	149 (14)	47 (4)	68 (5)	105 (17)	151 (24)	22 (13)	31 (19)
9	1 (1)	1 (1)	42 (7)	61 (9)	97 (17)	139 (25)	64 (6)	92 (9)	143 (18)	205 (26)	29 (11)	41 (16)
10	1 (1)	1 (1)	34 (6)	49 (9)	83 (10)	120 (14)	62 (4)	88 (6)	146 (13)	210 (19)	42 (37)	60 (54)
11	0 (0)	1 (0)	53 (6)	75 (9)	90 (15)	129 (22)	59 (13)	84 (19)	129 (30)	185 (43)	32 (7)	45 (10)
12	1 (1)	3 (1)	52 (7)	74 (10)	80 (10)	115 (14)	81 (22)	115 (32)	181 (11)	260 (15)	51 (33)	73 (46)
13	3 (2)	6 (2)	53 (14)	76 (19)	80 (14)	114 (20)	80 (20)	114 (29)	175 (18)	252 (25)	91 (79)	130 (112)
14	4 (1)	8 (2)	53 (13)	75 (19)	83 (13)	119 (19)	97 (6)	139 (9)	176 (12)	253 (17)	101 (77)	144 (109)
15	3 (2)	6 (1)	70 (14)	100 (19)	97 (8)	139 (12)	67 (12)	96 (18)	153 (11)	220 (16)	65 (63)	93 (89)
16	3 (4)	4 (2)	61 (24)	87 (34)	81 (18)	116 (26)	66 (11)	94 (16)	130 (7)	187 (9)	167 (171)	239 (244)
17	3 (3)	6 (4)	42 (16)	60 (23)	57 (19)	82 (27)	71 (15)	101 (21)	114 (20)	164 (29)	104 (36)	149 (52)
18	0 (0)	1 (0)	37 (8)	53 (11)	52 (19)	74 (27)	66 (5)	94 (7)				
19	0 (0)	0 (1)										
20	1 (1)	1 (0)	52 (10)	74 (14)	84 (13)	121 (19)			112 (11)	160 (16)	16 (6)	23 (9)
21	3 (2)	3 (2)	41 (12)	59 (17)	89 (16)	128 (22)	61 (7)	87 (10)	135 (11)	194 (15)	66 (60)	95 (86)
22	3 (2)	4 (3)	44 (7)	63 (9)	103 (8)	148 (12)	47 (8)	67 (11)	130 (7)	186 (11)	69 (70)	99 (100)
23	0 (0)	0 (0)	39 (15)	56 (21)	93 (19)	133 (28)	42 (7)	61 (10)	133 (12)	191 (18)	7 (2)	9 (3)
24	1 (0)	1 (1)	27 (6)	39 (8)	70 (15)	101 (22)	39 (4)	56 (6)	120 (17)	172 (24)	23 (14)	33 (20)
25	1 (1)	3 (3)	27 (4)	38 (5)	72 (8)	104 (12)	39 (6)	56 (8)	122 (7)	176 (10)	46 (14)	66 (20)
26	2 (2)	2 (2)	29 (5)	42 (8)	82 (10)	117 (15)	40 (5)	57 (7)	131 (8)	188 (11)	68 (70)	97 (100)
27	2 (2)	5 (4)										
28	1 (0)	1 (0)										
29	0 (0)	1 (1)	52 (8)	74 (12)	112 (9)	161 (13)	38 (6)	54 (9)	145 (15)	208 (21)	22 (6)	32 (8)
30	1 (1)	1 (1)	52 (12)	74 (17)	104 (20)	149 (28)	43 (6)	62 (8)	154 (12)	221 (17)	24 (11)	34 (15)
31	1 (1)	3 (4)	45 (6)	64 (9)	97 (10)	140 (14)	57 (9)	82 (13)	173 (14)	249 (20)	16 (5)	22 (7)
Avg	2	3	43	61	87	125	58	82	144	207	53.3	76.0
n	31	31	28	28	28	28	27	27	27	27	27	27
SD	2	3	11	15	13	19	15	21	22	32	35.3	50.3
Min	0	0	27	38	52	74	38	54	105	151	6.5	9.3
Max	9	10	70	100	112	161	97	139	183	262	167.0	239.0

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Table F10. Daily means (SD) of H2S concentrations at site IN2B for April, 2009

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	4 (3)	51 (9)	73 (13)	83 (19)	118 (28)	58 (9)	83 (13)	146 (15)	209 (22)	40 (16)	57 (22)
2	2 (2)	4 (6)	39 (12)	56 (17)	64 (12)	92 (17)	53 (11)	76 (16)	109 (22)	157 (32)	31 (26)	44 (37)
3	0 (0)	1 (0)	49 (5)	70 (7)	69 (10)	100 (14)	44 (8)	63 (12)	108 (8)	155 (11)	19 (8)	27 (12)
4	0 (0)	1 (1)	49 (10)	71 (15)	73 (9)	104 (13)	45 (10)	64 (14)	119 (3)	171 (5)	23 (10)	33 (15)
5	0 (0)	1 (1)	59 (10)	84 (15)	93 (14)	134 (20)	37 (3)	53 (5)	125 (8)	179 (12)	4 (1)	6 (2)
6	0 (1)	0 (0)	68 (11)	97 (15)	103 (15)	148 (21)	48 (11)	68 (16)	149 (10)	214 (14)	12 (4)	17 (5)
7	0 (0)	1 (1)	56 (8)	80 (11)	86 (15)	123 (22)	43 (6)	62 (8)	152 (12)	218 (17)	22 (9)	31 (13)
8	0 (0)	-1 (0)	50 (9)	71 (13)	70 (13)	101 (19)	50 (9)	71 (13)	135 (9)	193 (13)	48 (13)	69 (19)
9	0 (0)	0 (0)	36 (10)	51 (14)	54 (15)	78 (21)	35 (12)	50 (17)	93 (24)	133 (35)	66 (43)	94 (62)
10	0 (1)	1 (1)	28 (4)	40 (6)	46 (6)	65 (8)	27 (5)	39 (7)	64 (4)	91 (6)	10 (11)	14 (16)
11	0 (0)	0 (1)	29 (5)	42 (8)	49 (11)	70 (16)	27 (4)	39 (6)	66 (4)	94 (6)	17 (6)	25 (8)
12	0 (1)	1 (2)	35 (4)	50 (6)	61 (6)	87 (9)	37 (4)	53 (6)	64 (3)	91 (5)	25 (31)	35 (44)
13	0 (0)	0 (0)	34 (6)	49 (8)	61 (9)	88 (13)	41 (2)	58 (3)	74 (11)	106 (16)	5 (2)	8 (3)
14	1 (0)	2 (1)	39 (4)	57 (6)	60 (8)	86 (11)	42 (6)	60 (8)	87 (8)	124 (11)	23 (12)	32 (17)
15	1 (0)	2 (1)	46 (6)	65 (9)	69 (10)	99 (14)	54 (9)	77 (13)	108 (18)	154 (27)	57 (60)	82 (86)
16	2 (2)	3 (1)	39 (12)	55 (18)	68 (12)	97 (17)	52 (10)	75 (15)	110 (13)	158 (18)	63 (60)	89 (85)
17	2 (2)	2 (1)			55 (21)	79 (29)					109 (80)	156 (114)
18	4 (3)	2 (1)	32 (9)	46 (12)	42 (13)	60 (18)	34 (7)	49 (10)	65 (14)	93 (20)	127 (58)	182 (83)
19	1 (1)	1 (1)	45 (9)	65 (12)	75 (13)	107 (19)	34 (3)	49 (4)	79 (6)	114 (9)	28 (45)	40 (64)
20	0 (1)	2 (1)	56 (4)	80 (6)	77 (13)	111 (18)	41 (3)	58 (5)	88 (6)	126 (8)	28 (8)	39 (12)
21	0 (0)	0 (1)	60 (4)	86 (6)	75 (9)	108 (12)	41 (5)	59 (7)	99 (11)	142 (15)	30 (3)	43 (4)
22	0 (0)	0 (1)	52 (12)	75 (17)	73 (16)	104 (22)	46 (10)	66 (14)	110 (20)	158 (29)	30 (9)	43 (12)
23	1 (1)	1 (2)	38 (11)	54 (15)	65 (12)	94 (18)	45 (11)	65 (16)	90 (8)	128 (12)	39 (23)	55 (33)
24	1 (1)	4 (2)	20 (9)	29 (14)	37 (21)	52 (30)	25 (9)	36 (13)	56 (27)	80 (38)	28 (8)	40 (12)
25	0 (1)	1 (1)	17 (3)	24 (4)	28 (8)	41 (11)	14 (2)	20 (4)	29 (10)	41 (14)	24 (11)	35 (16)
26	1 (1)	5 (3)	18 (5)	26 (7)	31 (10)	44 (14)	14 (3)	20 (5)	28 (10)	40 (14)	29 (15)	42 (21)
27	1 (1)	3 (4)	17 (5)	25 (7)	30 (11)	43 (15)	14 (2)	20 (3)	26 (8)	37 (12)	23 (8)	33 (12)
28	0 (0)	1 (1)	32 (3)	46 (5)	50 (6)	71 (8)	23 (5)	32 (7)	36 (6)	52 (9)	11 (10)	16 (14)
29	0 (1)	1 (1)	37 (5)	53 (7)	62 (6)	88 (9)	25 (6)	36 (8)	53 (5)	76 (7)	4 (2)	6 (2)
30	2 (1)	4 (3)	37 (6)	53 (9)	70 (11)	100 (16)	34 (11)	49 (15)	67 (17)	97 (24)	18 (10)	26 (14)
Avg	1	2	40	58	63	90	37	53	87	125	33.1	47.3
n	30	30	29	29	30	30	29	29	29	29	30	30
SD	1	1	13	19	18	26	12	17	36	51	27.6	39.4
Min	0	-1	17	24	28	41	14	20	26	37	4.0	5.7
Max	4	5	68	97	103	148	58	83	152	218	127.0	182.0

ED_001509B_00005068-00226

Table F10. Daily means (SD) of H2S concentrations at site IN2B for May, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (0)	2 (1)	38 (7)	54 (10)	76 (12)	109 (17)	41 (8)	58 (12)	93 (16)	133 (23)	30 (16)	42 (23)
2	1 (1)	1 (3)	33 (9)	47 (12)	59 (12)	85 (17)	28 (7)	40 (9)	69 (13)	98 (18)	47 (26)	68 (37)
3	1 (1)	2 (2)	26 (4)	37 (6)	56 (5)	80 (7)	21 (4)	30 (5)	52 (5)	74 (7)	53 (30)	75 (43)
4	0 (1)	1 (1)	21 (6)	30 (9)	48 (13)	68 (19)	15 (3)	22 (4)	39 (4)	56 (5)	12 (15)	17 (22)
5	0 (0)	3 (2)	19 (6)	27 (8)	39 (10)	56 (14)	13 (3)	19 (4)	37 (5)	53 (7)	16 (12)	23 (17)
6	1 (1)	1 (1)	21 (3)	31 (4)	43 (5)	61 (7)	16 (3)	23 (5)	31 (5)	45 (7)	19 (22)	27 (32)
7	3 (2)	7 (6)	19 (4)	27 (6)	53 (9)	76 (14)	21 (4)	30 (6)	65 (21)	94 (30)	32 (8)	45 (12)
8	2 (1)	2 (4)	19 (4)	27 (5)	57 (10)	82 (14)	24 (3)	34 (4)	84 (7)	120 (10)	36 (13)	52 (19)
9	0 (1)	1 (1)	22 (4)	32 (6)	55 (11)	79 (16)	18 (4)	26 (6)	59 (9)	84 (13)	20 (6)	29 (9)
10	0 (1)	0 (0)	24 (4)	34 (6)	61 (8)	87 (12)	16 (2)	22 (3)	49 (4)	70 (5)	17 (6)	24 (9)
11	0 (0)	2 (1)	22 (8)	32 (11)	56 (15)	80 (21)	16 (3)	23 (5)	64 (10)	91 (15)	8 (6)	11 (8)
12	0 (1)	1 (2)	17 (6)	24 (8)	41 (11)	58 (15)	12 (2)	17 (3)	47 (19)	67 (28)	7 (6)	10 (9)
13	1 (1)	4 (6)	18 (3)	25 (4)	47 (8)	68 (11)	14 (4)	21 (6)	40 (10)	58 (15)	6 (2)	8 (3)
14	1 (2)	5 (6)	22 (5)	32 (7)	60 (12)	86 (17)	21 (4)	31 (5)	89 (10)	128 (15)	20 (8)	29 (12)
15	1 (1)	1 (1)	24 (6)	34 (8)	63 (10)	90 (14)	18 (4)	25 (5)	82 (10)	118 (14)	11 (12)	16 (17)
16	1 (1)	1 (1)	29 (3)	41 (4)	70 (8)	101 (11)	25 (6)	36 (9)	93 (12)	134 (17)	17 (7)	24 (10)
17	0 (0)	1 (1)	31 (6)	44 (8)	70 (8)	100 (11)	16 (2)	23 (3)	73 (15)	105 (22)	12 (9)	17 (13)
18	1 (1)	2 (3)	25 (9)	36 (13)	58 (19)	83 (27)	15 (3)	22 (5)	57 (12)	81 (18)	17 (8)	24 (12)
19	1 (1)	4 (3)	14 (10)	19 (14)	29 (21)	41 (30)	11 (8)	15 (11)	34 (21)	49 (30)	9 (7)	14 (10)
20	0 (1)	3 (2)	6 (5)	8 (7)	12 (10)	17 (15)	6 (5)	9 (8)	14 (11)	20 (16)	5 (6)	7 (9)
21	1 (1)	4 (3)	12 (6)	18 (9)	26 (11)	38 (15)	11 (4)	16 (5)	25 (9)	36 (13)	12 (3)	18 (4)
22	0 (0)	1 (1)	15 (4)	22 (5)	29 (8)	42 (12)	15 (3)	21 (5)	27 (6)	39 (8)	7 (6)	10 (9)
23	1 (1)	2 (2)	17 (7)	24 (11)	30 (13)	43 (19)	16 (5)	22 (7)	26 (7)	37 (9)	14 (19)	21 (28)
24	1 (1)	1 (1)	17 (6)	24 (9)	34 (11)	49 (15)	13 (3)	19 (4)	28 (7)	40 (10)	4 (4)	5 (6)
25	-1 (0)	0 (0)	19 (5)	27 (7)	39 (12)	56 (17)	16 (3)	23 (5)	31 (5)	44 (7)	0 (1)	0 (1)
26	1 (1)	1 (2)	17 (4)	25 (6)	30 (9)	43 (13)	17 (4)	24 (5)	28 (5)	41 (7)	2 (2)	3 (3)
27	1 (1)	4 (2)	21 (7)	30 (10)	35 (11)	50 (15)	22 (4)	32 (6)	36 (7)	52 (10)	8 (2)	12 (3)
28	1 (0)	1 (0)	29 (4)	42 (5)	53 (6)	76 (8)	32 (6)	46 (9)	55 (7)	79 (10)	11 (4)	15 (6)
29	0 (1)	0 (1)	26 (9)	38 (13)	49 (11)	71 (16)	27 (7)	39 (10)	52 (9)	75 (14)	10 (3)	15 (5)
30	0 (0)	0 (0)	22 (8)	31 (11)	41 (12)	58 (17)	23 (6)	33 (9)	44 (10)	63 (15)	16 (12)	23 (17)
31	0 (1)	1 (0)	21 (3)	30 (5)	45 (4)	65 (6)	16 (2)	23 (4)	34 (6)	48 (9)	8 (5)	11 (8)
Avg	1	2	21	31	47	68	19	27	50	72	15.7	22.4
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	2	6	9	15	21	7	10	22	31	12.2	17.4
Min	-1	0	6	8	12	17	6	9	14	20	0.2	0.3
Max	3	7	38	54	76	109	41	58	93	134	52.7	75.2

ED_001509B_00005068-00227

Table F10. Daily means (SD) of H2S concentrations at site IN2B for June, 2009

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	3 (3)	21 (6)	31 (8)	42 (12)	60 (17)	18 (4)	26 (6)	38 (12)	55 (17)	10 (5)	14 (7)
2	1 (1)	1 (1)	27 (2)	39 (2)	56 (5)	81 (8)	24 (3)	34 (5)	53 (4)	76 (5)	4 (6)	6 (8)
3	0 (1)	0 (1)	24 (4)	34 (5)	53 (9)	76 (13)	23 (3)	33 (4)	43 (7)	61 (11)	6 (6)	8 (8)
4	3 (3)	1 (2)	20 (6)	28 (8)	43 (9)	62 (13)	18 (6)	26 (8)	41 (9)	59 (13)	5 (6)	7 (9)
5	0 (1)	1 (1)	15 (6)	22 (8)	29 (11)	41 (15)	18 (3)	25 (4)	40 (8)	57 (11)	13 (17)	18 (24)
6	0 (1)	0 (1)	12 (4)	17 (6)	22 (10)	31 (14)	14 (3)	21 (5)	28 (9)	40 (13)	8 (9)	12 (13)
7	1 (1)	2 (2)	16 (3)	23 (4)	25 (5)	37 (8)	12 (3)	17 (4)	21 (3)	30 (4)	3 (2)	4 (2)
8	0 (1)	4 (5)	17 (5)	24 (7)	28 (10)	40 (14)	18 (2)	25 (3)	28 (5)	40 (7)	3 (3)	5 (4)
9	0 (0)	1 (1)	18 (4)	26 (6)	30 (9)	43 (13)	24 (5)	35 (7)	41 (5)	59 (8)	2 (3)	3 (4)
10	-1 (1)	-1 (1)	22 (4)	32 (5)	32 (7)	46 (10)	29 (7)	42 (10)	40 (5)	57 (7)	2 (2)	2 (3)
11	1 (1)	1 (1)										
12	1 (1)	4 (2)	28 (8)	41 (11)	40 (15)	58 (21)	34 (6)	49 (8)	44 (5)	63 (7)	11 (12)	16 (17)
13	2 (1)	2 (1)	26 (7)	38 (10)	32 (10)	46 (15)	32 (5)	46 (7)	32 (6)	46 (8)	9 (6)	13 (8)
14	1 (1)	2 (1)	29 (4)	42 (6)	36 (7)	51 (9)	26 (5)	37 (7)	29 (3)	41 (5)	7 (4)	10 (5)
15	2 (1)	1 (1)	25 (10)	36 (14)	28 (12)	41 (17)	25 (5)	36 (7)	29 (5)	41 (8)	7 (3)	10 (5)
16	1 (1)	1 (0)	27 (4)	39 (5)	30 (6)	43 (9)	29 (4)	42 (6)	26 (3)	37 (4)	5 (2)	8 (3)
17	2 (1)	1 (1)	34 (6)	49 (9)	39 (11)	56 (15)	35 (6)	51 (9)	42 (8)	60 (11)	15 (6)	22 (8)
18	2 (1)	3 (1)	36 (11)	52 (15)	42 (13)	60 (19)	40 (9)	58 (13)	46 (8)	66 (11)	20 (13)	28 (18)
19	5 (1)	10 (5)	28 (7)	40 (10)	29 (7)	42 (10)	35 (6)	51 (9)	34 (6)	50 (9)	17 (7)	25 (10)
20	3 (1)	6 (3)	23 (5)	33 (7)	25 (7)	35 (10)	30 (7)	44 (11)	33 (6)	48 (9)	22 (7)	31 (10)
21	3 (1)	5 (2)	20 (5)	29 (7)	23 (5)	33 (7)	22 (5)	31 (8)	24 (6)	34 (8)	29 (16)	42 (23)
22	3 (1)	1 (1)	18 (6)	26 (9)	21 (7)	30 (10)	23 (4)	33 (6)	25 (7)	36 (11)	11 (6)	16 (9)
23	3 (2)	4 (3)	15 (5)	21 (8)	17 (8)	25 (11)	21 (4)	30 (6)	21 (7)	30 (9)	14 (10)	20 (14)
24	3 (1)	4 (1)	14 (2)	20 (3)	10 (2)	15 (2)	16 (5)	23 (7)	13 (4)	19 (5)	25 (5)	36 (7)
25	3 (0)	3 (1)										
26	4 (1)	2 (0)										
27	2 (1)	2 (1)	7 (1)	11 (2)	7 (1)	9 (1)	9 (2)	12 (3)	8 (2)	11 (3)	30 (21)	43 (30)
28	1 (1)	1 (0)	6 (2)	9 (3)	6 (2)	9 (3)	6 (2)	8 (3)	6 (2)	8 (2)	20 (10)	29 (14)
29	1 (1)	1 (0)	9 (4)	10 (5)	9 (5)	14 (6)	7 (3)	10 (5)	10 (4)	14 (5)	16 (5)	23 (7)
30	1 (1)	1 (1)	14 (5)	22 (6)	18 (5)	35 (9)	14 (1)	19 (3)	21 (2)	27 (6)	18 (5)	25 (7)
Avg	2	2	20	29	29	41	22	32	30	43	12.3	17.7
n	30	30	27	27	27	27	27	27	27	27	27	27
SD	1	2	8	11	13	18	9	13	12	17	8.0	11.5
Min	-1	-1	6	9	6	9	6	8	6	8	1.5	2.2
Max	5	10	36	52	56	81	40	58	53	76	30.1	43.3

ED_001509B_00005068-00228

Table F10. Daily means (SD) of H2S concentrations at site IN2B for July, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (1)	1 (1)	15 (3)	28 (9)	19 (3)	42 (7)	17 (3)	26 (5)	26 (4)	37 (8)	20 (9)	29 (13)
2	0 (1)	1 (0)	18 (4)	38 (10)	18 (6)	41 (11)	23 (3)	33 (5)	32 (2)	42 (3)	15 (4)	21 (6)
3	1 (1)	1 (1)	16 (5)	33 (13)	16 (5)	36 (11)	23 (5)	32 (7)	27 (3)	39 (6)	21 (6)	30 (8)
4	3 (1)	3 (3)	20 (4)	42 (9)	22 (6)	51 (11)	22 (3)	29 (5)	24 (5)	21 (11)	25 (10)	35 (14)
5	2 (1)	1 (1)	25 (5)	44 (12)	29 (5)	52 (14)	23 (4)	34 (7)	27 (2)	29 (10)	18 (9)	26 (14)
6	2 (1)	2 (1)	16 (10)	29 (18)	20 (12)	38 (19)	19 (7)	29 (12)	27 (6)	35 (6)	27 (19)	39 (27)
7	1 (1)	1 (1)	13 (5)	18 (7)	13 (5)	18 (7)	15 (5)	21 (6)	16 (6)	23 (9)	17 (14)	24 (20)
8	2 (1)	2 (0)	21 (4)	30 (6)	17 (5)	25 (7)	19 (3)	27 (4)	18 (5)	25 (8)	12 (7)	16 (10)
9	2 (2)	1 (1)	23 (9)	34 (13)	21 (9)	30 (13)	24 (6)	34 (9)	26 (9)	37 (13)	12 (7)	18 (9)
10	3 (1)	3 (2)	21 (11)	31 (15)	19 (8)	28 (12)	24 (5)	35 (8)	20 (4)	29 (5)	18 (7)	26 (9)
11	3 (1)	4 (2)	25 (7)	36 (10)	23 (5)	33 (7)	29 (5)	42 (8)	28 (4)	40 (6)	19 (11)	27 (16)
12	2 (2)	3 (1)	32 (7)	46 (10)	31 (7)	45 (11)	27 (7)	39 (10)	31 (7)	44 (9)	20 (16)	29 (23)
13	2 (1)	3 (0)	25 (10)	36 (14)	26 (10)	37 (14)	23 (4)	32 (6)	24 (4)	34 (6)	13 (8)	19 (12)
14	2 (1)	2 (1)	22 (7)	32 (11)	19 (8)	28 (11)	20 (3)	29 (4)	18 (6)	25 (9)	21 (13)	31 (18)
15	2 (1)	2 (0)	24 (8)	34 (11)	22 (5)	32 (7)	24 (5)	34 (7)	18 (4)	26 (5)	22 (6)	31 (9)
16	2 (1)	2 (1)	26 (9)	38 (14)	24 (10)	34 (15)	31 (9)	44 (14)	26 (7)	37 (10)	18 (5)	26 (7)
17	1 (1)	1 (0)	33 (6)	47 (9)	30 (7)	44 (11)	33 (7)	48 (10)	36 (5)	51 (7)	18 (4)	25 (5)
18	1 (1)	3 (1)	37 (10)	53 (14)	33 (7)	48 (10)	35 (5)	51 (7)	39 (3)	57 (5)	19 (7)	28 (10)
19	1 (1)	1 (1)	42 (6)	60 (9)	42 (8)	60 (11)	31 (2)	45 (3)	31 (4)	44 (5)	22 (11)	31 (15)
20	1 (1)	1 (1)	35 (15)	51 (22)	36 (17)	51 (24)	34 (5)	49 (8)	32 (6)	46 (8)	22 (14)	32 (20)
21	3 (1)	2 (1)	27 (11)	39 (16)	26 (9)	37 (12)	29 (5)	41 (7)	31 (5)	44 (8)	27 (21)	39 (30)
22	1 (1)	1 (1)	37 (5)	53 (8)	36 (6)	51 (8)	32 (5)	45 (7)	38 (8)	55 (12)	17 (9)	25 (13)
23	2 (1)	4 (1)	36 (10)	52 (15)	35 (11)	50 (17)	42 (7)	60 (11)	48 (13)	69 (19)	18 (7)	26 (11)
24	2 (1)	3 (2)	32 (13)	46 (18)	28 (12)	41 (17)	36 (10)	52 (15)	32 (8)	46 (11)	23 (4)	34 (5)
25	1 (1)	2 (1)	32 (6)	45 (8)	28 (7)	41 (10)	37 (6)	53 (9)	35 (9)	50 (13)	20 (5)	29 (7)
26	1 (1)	1 (0)	41 (6)	59 (8)	39 (8)	56 (11)	35 (7)	50 (11)	33 (6)	48 (9)	19 (3)	28 (5)
27	2 (1)	2 (2)	33 (15)	47 (21)	32 (16)	46 (23)	41 (6)	59 (9)	35 (5)	51 (8)	22 (2)	31 (3)
28	2 (1)	4 (2)	25 (8)	36 (12)	28 (8)	41 (12)	34 (5)	49 (7)	35 (4)	50 (6)	19 (4)	27 (6)
29	2 (1)	4 (2)	26 (8)	37 (12)	30 (9)	43 (14)	34 (10)	49 (14)	42 (9)	60 (13)	16 (9)	23 (12)
30	2 (1)	3 (1)	22 (8)	31 (11)	22 (9)	32 (13)	25 (4)	35 (6)	26 (5)	38 (7)	23 (10)	33 (14)
31	2 (0)	2 (1)	20 (7)	28 (10)	19 (8)	28 (12)	25 (6)	36 (8)	31 (6)	45 (9)	24 (14)	35 (20)
Avg	2	2	26	40	26	40	28	40	29	41	19.5	28.1
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	1	8	10	7	10	7	10	7	11	3.8	5.4
Min	0	1	13	18	13	18	15	21	16	21	11.5	16.4
Max	3	4	42	60	42	60	42	60	48	69	27.2	39.0

ED_001509B_00005068-00229

Table F10. Daily means (SD) of H2S concentrations at site IN2B for August, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (1)	3 (1)	19 (7)	28 (10)	19 (7)	27 (10)	23 (5)	32 (7)	23 (4)	33 (6)	21 (7)	31 (10)
2	1 (1)	2 (1)	26 (4)	38 (6)	29 (5)	41 (7)	23 (4)	34 (6)	28 (5)	40 (7)	20 (10)	29 (14)
3	2 (1)	3 (2)	18 (9)	25 (12)	18 (10)	26 (14)	20 (4)	29 (5)	19 (2)	28 (3)	11 (6)	16 (9)
4	2 (1)	2 (1)	21 (5)	30 (7)	17 (5)	24 (7)	27 (3)	38 (4)	26 (4)	38 (5)	20 (4)	29 (6)
5	2 (1)	1 (1)	23 (8)	33 (11)	20 (8)	29 (11)	25 (5)	36 (8)	29 (4)	41 (6)	7 (6)	11 (9)
6	2 (1)	2 (2)	20 (7)	29 (10)	18 (7)	26 (10)	23 (5)	33 (7)	24 (5)	34 (7)	9 (8)	13 (11)
7	2 (1)	1 (1)	27 (4)	38 (6)	17 (6)	25 (9)	25 (5)	36 (7)	22 (3)	32 (4)	9 (4)	13 (6)
8	1 (1)	1 (1)	21 (7)	31 (10)	18 (4)	27 (6)	19 (4)	27 (5)	17 (2)	24 (3)	9 (2)	14 (3)
9	2 (1)	2 (0)	18 (4)	26 (6)	20 (1)	29 (1)	17 (3)	25 (5)	17 (1)	25 (2)	12 (4)	17 (5)
10	1 (0)	1 (1)	13 (5)	18 (7)	13 (5)	19 (7)	20 (5)	29 (7)	23 (7)	33 (10)	13 (2)	19 (2)
11	2 (1)	2 (2)	19 (5)	27 (8)	15 (4)	22 (5)	29 (5)	41 (7)	32 (6)	46 (9)	17 (6)	25 (8)
12	3 (2)	5 (1)	19 (6)	28 (9)	18 (5)	26 (7)	27 (7)	39 (10)	31 (6)	44 (9)	17 (16)	24 (23)
13	3 (1)	2 (1)	18 (6)	25 (9)	17 (6)	24 (8)	22 (5)	32 (7)	24 (6)	35 (8)	16 (9)	22 (14)
14	3 (1)	1 (1)	17 (9)	24 (13)	14 (8)	20 (11)	18 (7)	26 (11)	17 (6)	24 (8)	23 (8)	33 (11)
15	3 (1)	1 (1)	16 (8)	22 (11)	11 (5)	15 (7)	17 (6)	25 (9)	13 (5)	19 (8)	20 (7)	28 (11)
16	2 (1)	1 (1)	19 (6)	28 (9)	14 (2)	21 (3)	16 (4)	23 (6)	12 (4)	18 (5)	17 (4)	24 (5)
17	3 (1)	3 (2)	25 (8)	36 (12)	16 (4)	23 (5)	26 (5)	38 (7)	21 (5)	31 (7)	12 (5)	17 (7)
18	2 (1)	1 (1)	34 (8)	49 (12)	19 (5)	27 (8)	37 (4)	54 (5)	28 (2)	41 (3)	24 (4)	34 (6)
19	4 (1)	4 (3)	32 (12)	46 (18)	20 (7)	28 (11)	34 (8)	49 (11)	23 (8)	34 (11)	18 (9)	26 (13)
20	3 (2)	3 (5)	31 (10)	44 (14)	18 (6)	25 (9)	32 (5)	47 (8)	25 (3)	36 (5)	18 (4)	26 (6)
21	1 (1)	1 (1)	32 (10)	46 (14)	19 (7)	28 (9)	34 (7)	49 (10)	26 (6)	37 (9)	19 (3)	27 (4)
22	1 (1)	1 (1)	37 (5)	52 (7)	24 (5)	34 (8)	40 (5)	58 (7)	32 (6)	47 (8)	13 (5)	18 (8)
23	2 (1)	3 (1)	44 (5)	63 (7)	31 (4)	45 (6)	37 (3)	54 (4)	31 (2)	45 (3)	16 (6)	24 (9)
24	2 (1)	3 (1)	36 (13)	51 (19)	26 (11)	37 (15)	35 (6)	50 (8)	27 (5)	39 (7)	22 (12)	32 (17)
25	2 (1)	1 (1)	22 (8)	32 (12)	18 (8)	26 (11)	30 (6)	43 (9)	25 (7)	36 (10)	26 (12)	38 (17)
26	2 (0)	2 (1)	24 (7)	34 (11)	17 (5)	24 (7)	28 (6)	40 (8)	22 (5)	32 (7)	29 (7)	42 (11)
27	1 (1)	1 (0)	27 (6)	38 (8)	20 (4)	29 (5)	29 (6)	41 (9)	27 (5)	39 (7)	7 (4)	11 (6)
28	1 (0)	3 (2)	28 (4)	41 (6)	22 (4)	32 (6)	34 (6)	49 (8)	32 (5)	47 (7)	24 (16)	34 (24)
29	1 (1)	2 (0)	26 (7)	37 (10)	26 (9)	37 (14)	33 (3)	48 (4)	40 (7)	58 (10)	32 (8)	45 (12)
30	1 (0)	1 (0)	26 (4)	37 (5)	28 (3)	39 (4)	24 (5)	34 (7)	29 (4)	42 (5)	21 (12)	30 (18)
31	2 (1)	1 (1)	25 (6)	36 (9)	24 (9)	34 (12)	24 (4)	34 (5)	29 (6)	41 (9)	36 (22)	51 (31)
Avg	2	2	25	35	20	28	27	38	25	36	18.0	25.8
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1	1	7	10	5	7	7	10	6	9	6.9	9.9
Min	1	1	13	18	11	15	16	23	12	18	7.4	10.6
Max	4	5	44	63	31	45	40	58	40	58	35.8	51.2

ED_001509B_00005068-00230

Table F10. Daily means (SD) of H2S concentrations at site IN2B for September, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	1 (1)	26 (6)	38 (8)	18 (5)	26 (8)	23 (4)	33 (5)	19 (2)	27 (4)	21 (12)	31 (16)
2	1 (1)	2 (0)	26 (7)	37 (11)	19 (7)	27 (9)	26 (6)	37 (8)	16 (3)	23 (4)	23 (19)	33 (28)
3	3 (2)	2 (2)	26 (8)	37 (12)	20 (7)	29 (10)	26 (5)	37 (8)	19 (4)	27 (6)	54 (52)	77 (74)
4	3 (1)	1 (1)	25 (8)	35 (12)	19 (7)	28 (10)	25 (4)	36 (6)	18 (5)	26 (7)	57 (51)	81 (73)
5	2 (1)	1 (1)	24 (7)	35 (10)	19 (6)	28 (9)	23 (4)	34 (6)	18 (4)	26 (5)	20 (15)	28 (21)
6	1 (1)	2 (0)	31 (4)	44 (6)	26 (6)	38 (8)	25 (3)	36 (4)	23 (3)	33 (5)	17 (9)	24 (14)
7	3 (1)	1 (1)	31 (5)	44 (7)	27 (8)	39 (11)	29 (4)	42 (5)	28 (4)	40 (5)	25 (17)	36 (24)
8	3 (1)	3 (1)	30 (3)	43 (4)	24 (5)	35 (7)	24 (3)	34 (4)	29 (3)	42 (4)	43 (11)	62 (16)
9	3 (1)	1 (1)	23 (6)	33 (9)	24 (5)	35 (7)	21 (5)	30 (7)	28 (7)	40 (10)	22 (10)	32 (15)
10	2 (1)	2 (1)	28 (7)	41 (11)	25 (7)	36 (10)	27 (5)	38 (7)	29 (7)	42 (10)	13 (11)	19 (16)
11	2 (1)	2 (0)	28 (8)	40 (12)	24 (8)	35 (12)	28 (5)	41 (8)	28 (7)	41 (9)	24 (18)	34 (25)
12	3 (1)	3 (1)	29 (9)	42 (13)	26 (7)	37 (10)	28 (6)	41 (9)	31 (7)	45 (10)	45 (31)	65 (45)
13	2 (1)	2 (1)	32 (7)	46 (9)	31 (7)	44 (10)	28 (4)	39 (5)	29 (6)	41 (8)	40 (21)	58 (30)
14	6 (5)	8 (5)	27 (10)	39 (15)	25 (10)	35 (15)	28 (5)	40 (7)	30 (3)	43 (5)	55 (28)	79 (40)
15	3 (1)	4 (1)	25 (8)	36 (11)	21 (7)	30 (11)	25 (7)	36 (10)	24 (5)	35 (8)	41 (22)	59 (32)
16	1 (0)	1 (0)	30 (6)	44 (8)	27 (7)	39 (9)	28 (4)	40 (5)	27 (6)	39 (8)	8 (6)	12 (9)
17	2 (1)	3 (1)	33 (8)	48 (12)	28 (8)	40 (11)	29 (3)	42 (4)	23 (3)	33 (4)	24 (15)	35 (22)
18	2 (1)	2 (1)										
19	1 (1)	1 (1)	29 (6)	41 (9)	26 (7)	37 (10)	28 (4)	40 (5)	20 (4)	29 (5)	8 (9)	11 (13)
20	1 (1)	0 (1)	33 (3)	47 (4)	31 (3)	45 (4)	26 (2)	37 (3)	20 (2)	28 (3)	11 (8)	16 (12)
21	3 (1)	4 (1)	27 (6)	38 (9)	25 (7)	35 (10)	25 (4)	37 (6)	28 (5)	40 (8)	74 (37)	107 (53)
22	5 (1)	4 (2)	23 (6)	32 (8)	20 (6)	28 (8)	22 (3)	31 (4)	24 (2)	35 (3)	113 (86)	162 (124)
23	3 (1)	4 (1)	20 (4)	29 (6)	18 (4)	26 (6)	22 (3)	31 (5)	25 (4)	36 (5)	109 (74)	157 (107)
24	4 (1)	2 (1)	25 (4)	37 (5)	23 (4)	33 (6)	27 (3)	39 (4)	30 (4)	43 (5)	19 (27)	27 (39)
25	1 (1)	1 (0)	28 (5)	40 (7)	25 (6)	36 (8)	30 (2)	43 (3)	28 (5)	40 (7)	4 (3)	6 (4)
26	1 (0)	0 (1)	25 (5)	37 (7)	21 (5)	30 (8)	33 (4)	47 (5)	32 (4)	46 (6)	20 (7)	29 (11)
27	1 (1)	3 (2)	29 (3)	42 (4)	28 (4)	41 (6)	27 (3)	38 (4)	27 (3)	39 (5)	17 (9)	24 (12)
28	0 (0)	1 (0)	22 (6)	31 (9)	25 (8)	36 (12)	20 (2)	28 (3)	24 (4)	34 (6)	7 (2)	10 (3)
29	0 (0)	1 (0)	23 (4)	33 (6)	20 (3)	28 (4)	21 (3)	31 (5)	26 (4)	37 (6)	11 (7)	16 (10)
30	1 (1)	1 (0)	28 (6)	40 (8)	25 (3)	36 (5)	28 (3)	40 (5)	26 (5)	37 (7)	11 (6)	16 (9)
Avg	2	2	27	39	24	34	26	37	25	36	32.3	46.3
n	30	30	29	29	29	29	29	29	29	29	29	29
SD	1	2	3	5	4	5	3	4	4	6	27.5	39.6
Min	0	0	20	29	18	26	20	28	16	23	4.2	6.0
Max	6	8	33	48	31	45	33	47	32	46	113.0	162.0

ED_001509B_00005068-00231

Table F10. Daily means (SD) of H2S concentrations at site IN2B for October, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (1)	1 (0)	30 (8)	44 (11)	27 (6)	39 (9)	28 (6)	40 (8)	21 (5)	30 (6)	16 (11)	22 (15)
2	1 (1)	1 (1)	31 (4)	44 (6)	32 (5)	45 (7)	27 (3)	38 (5)	33 (8)	47 (12)	11 (3)	16 (4)
3	1 (1)	1 (1)	35 (5)	50 (7)	32 (4)	46 (6)	30 (6)	44 (9)	30 (4)	43 (6)	13 (1)	18 (2)
4	1 (1)	0 (1)	45 (3)	65 (4)	41 (4)	59 (5)	27 (3)	39 (4)	28 (2)	39 (3)	19 (9)	27 (13)
5	2 (1)	2 (1)	36 (10)	51 (14)	36 (10)	51 (14)	31 (3)	44 (5)	32 (7)	46 (10)	23 (7)	32 (11)
6	1 (1)	1 (0)	33 (6)	47 (8)	33 (5)	47 (7)	34 (4)	49 (6)	36 (4)	52 (6)	16 (10)	23 (14)
7	1 (1)	1 (1)	33 (6)	48 (8)	32 (6)	46 (8)	33 (3)	48 (4)	40 (6)	57 (8)	39 (23)	55 (32)
8	2 (1)	4 (2)	35 (6)	51 (8)	33 (4)	47 (6)	33 (4)	47 (5)	37 (4)	53 (6)	43 (14)	62 (20)
9	2 (1)	2 (1)	37 (4)	54 (5)	38 (5)	54 (7)	38 (5)	54 (7)	43 (5)	62 (7)	37 (15)	53 (21)
10	1 (1)	2 (1)	35 (6)	50 (8)	37 (5)	53 (7)	33 (6)	47 (8)	41 (4)	59 (6)	34 (6)	48 (9)
11	1 (0)	1 (0)	39 (3)	56 (4)	43 (2)	61 (3)	24 (3)	35 (4)	36 (3)	52 (4)	35 (10)	49 (14)
12	1 (0)	2 (0)	40 (4)	57 (6)	40 (5)	58 (8)	38 (9)	54 (13)	43 (8)	61 (11)	22 (13)	31 (18)
13	1 (1)	1 (0)	39 (7)	56 (9)	37 (4)	53 (6)	38 (6)	54 (8)	47 (6)	67 (9)	26 (10)	37 (15)
14	1 (0)	1 (1)	47 (4)	67 (5)	38 (4)	54 (6)	41 (3)	59 (4)	38 (4)	55 (6)	15 (10)	21 (15)
15	1 (1)	1 (1)	50 (6)	71 (9)	39 (5)	55 (7)	33 (8)	47 (12)	46 (7)	66 (10)	36 (20)	51 (28)
16	1 (1)	2 (1)	50 (8)	71 (11)	36 (8)	52 (11)	31 (8)	45 (12)	34 (7)	49 (9)	36 (13)	51 (18)
17	2 (1)	2 (1)	52 (9)	74 (13)	39 (5)	56 (7)	49 (14)	71 (20)	49 (15)	70 (21)	57 (43)	82 (62)
18	4 (1)	5 (3)	63 (6)	90 (8)	49 (5)	70 (7)	61 (4)	88 (6)	61 (4)	87 (5)	56 (22)	79 (31)
19	3 (0)	8 (1)	49 (10)	70 (15)	44 (8)	64 (12)	50 (6)	72 (8)	61 (3)	88 (4)	32 (16)	46 (23)
20	2 (1)	5 (2)	41 (8)	59 (12)	32 (11)	45 (15)	48 (3)	69 (5)	55 (10)	78 (15)	42 (12)	60 (17)
21	2 (1)	5 (2)	34 (6)	48 (8)	24 (6)	34 (8)	40 (6)	58 (9)	41 (12)	59 (18)	36 (9)	52 (13)
22	1 (1)	2 (1)	31 (5)	44 (7)	22 (8)	32 (12)	37 (4)	53 (5)	32 (5)	45 (7)	27 (17)	38 (24)
23	1 (1)	4 (4)	36 (8)	51 (11)	33 (6)	47 (8)	44 (6)	63 (9)	37 (7)	53 (11)	16 (9)	24 (14)
24	2 (2)	3 (4)	41 (7)	58 (11)	35 (8)	51 (11)	46 (4)	66 (5)	43 (4)	62 (5)	30 (13)	43 (18)
25	3 (1)	6 (2)	43 (5)	61 (6)	35 (3)	50 (4)	43 (3)	61 (4)	36 (3)	52 (4)	32 (12)	45 (17)
26	2 (0)	4 (2)										
27	2 (0)	2 (1)										
28	2 (1)	1 (0)	39 (7)	55 (10)	34 (11)	49 (16)	48 (4)	69 (6)	48 (10)	69 (14)	68 (38)	97 (54)
29	2 (1)	2 (1)	38 (9)	55 (13)	37 (7)	54 (11)	49 (3)	70 (4)	53 (4)	76 (6)	23 (16)	33 (22)
30	3 (1)	9 (6)	35 (7)	50 (10)	32 (7)	46 (9)	48 (3)	69 (5)	49 (4)	71 (5)	21 (6)	29 (8)
31	0 (0)	0 (1)	43 (7)	62 (10)	37 (5)	53 (8)	44 (5)	63 (7)	49 (4)	70 (6)	28 (5)	40 (7)
Avg	2	3	40	57	35	51	39	56	41	59	30.5	43.5
n	31	31	29	29	29	29	29	29	29	29	29	29
SD	1	2	7	11	6	8	9	13	9	13	13.6	19.4
Min	0	0	30	44	22	32	24	35	21	30	11.1	15.8
Max	4	9	63	90	49	70	61	88	61	88	67.8	97.0

ED_001509B_00005068-00232

Table F10. Daily means (SD) of H2S concentrations at site IN2B for November, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	1 (1)	1 (0)	48 (4)	69 (5)	38 (2)	55 (3)	41 (2)	59 (3)	45 (1)	65 (2)	35 (14)	49 (20)
2	2 (1)	2 (2)	37 (11)	53 (15)	28 (10)	41 (14)	40 (8)	57 (11)	41 (3)	59 (4)	25 (11)	35 (16)
3	1 (1)	1 (0)	42 (6)	60 (9)	25 (4)	36 (6)	46 (7)	66 (10)	35 (3)	50 (4)	39 (33)	55 (46)
4	2 (1)	2 (0)	47 (7)	67 (10)	30 (4)	42 (6)	53 (5)	76 (7)	38 (6)	54 (8)	38 (17)	54 (24)
5	1 (1)	2 (1)	47 (9)	67 (13)	31 (4)	44 (6)	51 (5)	73 (7)	43 (3)	62 (5)	42 (22)	60 (31)
6	3 (1)	4 (2)	50 (6)	71 (9)	39 (4)	56 (6)	52 (7)	74 (9)	60 (12)	86 (17)	28 (16)	41 (23)
7	2 (1)	1 (1)	35 (11)	51 (16)	28 (10)	41 (14)	36 (6)	52 (9)	44 (13)	63 (19)	34 (17)	48 (24)
8	4 (1)	6 (2)	34 (5)	49 (7)	29 (5)	41 (7)	28 (4)	41 (5)	33 (6)	47 (9)	43 (16)	61 (23)
9	2 (1)	4 (1)	33 (6)	48 (9)	28 (6)	40 (9)	33 (7)	47 (10)	39 (3)	56 (4)	44 (16)	63 (23)
10	1 (1)	1 (1)	30 (3)	43 (5)	31 (3)	45 (5)	34 (3)	48 (4)	47 (5)	68 (7)	28 (17)	40 (24)
11	1 (0)	3 (1)	38 (7)	54 (10)	36 (6)	52 (8)	34 (6)	48 (8)	54 (6)	77 (8)	10 (7)	14 (10)
12	2 (1)	3 (1)	40 (7)	58 (11)	38 (7)	54 (11)	37 (4)	54 (6)	56 (7)	80 (9)	7 (6)	10 (9)
13	2 (1)	4 (1)	36 (8)	52 (12)	35 (8)	51 (11)	40 (4)	57 (6)	51 (11)	73 (16)	12 (6)	18 (9)
14	1 (1)	3 (1)	33 (6)	47 (9)	28 (8)	41 (12)	44 (4)	63 (5)	40 (11)	58 (15)	11 (5)	16 (6)
15	2 (1)	2 (1)	42 (8)	60 (12)	32 (6)	46 (8)	31 (4)	45 (6)	33 (3)	48 (4)	11 (5)	15 (7)
16	1 (0)	1 (0)	46 (7)	66 (10)	39 (5)	56 (6)	32 (6)	46 (8)	48 (8)	69 (12)	3 (2)	5 (3)
17	1 (0)	1 (1)	43 (5)	62 (8)	36 (5)	51 (8)	44 (8)	62 (12)	56 (4)	80 (6)	7 (2)	10 (3)
18	1 (1)	4 (3)	38 (7)	54 (10)	31 (3)	44 (5)	43 (6)	61 (9)	53 (7)	77 (9)	22 (13)	31 (19)
19	2 (1)	4 (3)	31 (4)	45 (6)	24 (3)	34 (5)	35 (5)	50 (7)	35 (4)	50 (5)	27 (6)	38 (8)
20	1 (1)	1 (1)	29 (6)	41 (9)	24 (4)	34 (5)	37 (4)	53 (5)	38 (4)	54 (6)	39 (20)	55 (29)
21	2 (1)	2 (1)	27 (5)	38 (8)	23 (2)	34 (3)	36 (4)	51 (6)	37 (5)	53 (7)	41 (17)	58 (24)
22	1 (1)	2 (1)	30 (4)	43 (6)	26 (2)	37 (3)	32 (4)	46 (5)	32 (3)	46 (5)	12 (8)	18 (11)
23	1 (1)	1 (0)	28 (5)	40 (8)	23 (4)	33 (5)	30 (3)	43 (4)	33 (5)	47 (7)	5 (3)	7 (4)
24	1 (1)	2 (1)	29 (5)	42 (7)	19 (4)	27 (5)	31 (5)	45 (7)	26 (6)	37 (8)	4 (1)	5 (2)
25	1 (1)	0 (1)	35 (5)	50 (7)	14 (2)	20 (2)	34 (3)	48 (5)	19 (2)	27 (4)	8 (5)	12 (8)
26	0 (0)	1 (0)	44 (4)	63 (6)	17 (3)	24 (4)	45 (4)	65 (6)	20 (2)	28 (3)	12 (4)	18 (6)
27	2 (2)	2 (1)	45 (6)	64 (9)	17 (3)	24 (4)	49 (2)	70 (3)	21 (2)	30 (2)	23 (12)	33 (18)
28	3 (1)	2 (1)	42 (9)	61 (12)	16 (5)	22 (7)	47 (5)	68 (7)	21 (3)	30 (5)	33 (23)	48 (33)
29	2 (1)	2 (2)	45 (5)	64 (7)	13 (2)	19 (2)	44 (4)	63 (5)	13 (1)	18 (2)	33 (17)	46 (24)
30	1 (1)	1 (0)	42 (5)	61 (7)	13 (2)	19 (3)	41 (2)	58 (3)	13 (1)	18 (2)	15 (3)	22 (4)
Avg	2	2	38	55	27	39	39	56	37	54	23.0	32.8
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1	1	7	10	8	11	7	10	13	18	13.4	19.1
Min	0	0	27	38	13	19	28	41	13	18	3.4	4.8
Max	4	6	50	71	39	56	53	76	60	86	43.9	62.8

ED_001509B_00005068-00233

Table F10. Daily means (SD) of H2S concentrations at site IN2B for December, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	B8, ppb	B9, ppb	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}	ppb	µg·dsm^{-3}
1	2 (1)	3 (4)	41 (5)	59 (7)	11 (3)	15 (4)	45 (3)	65 (5)	12 (2)	17 (2)	23 (11)	33 (16)
2	2 (1)	4 (3)	42 (5)	60 (7)	12 (2)	17 (4)	46 (2)	65 (3)	13 (6)	19 (8)	34 (16)	48 (23)
3	0 (0)	0 (0)	47 (8)	68 (11)	12 (3)	17 (4)	55 (6)	79 (9)	9 (2)	13 (2)	20 (7)	29 (11)
4	1 (1)	0 (1)	56 (10)	81 (14)	13 (3)	18 (4)	48 (18)	69 (26)	9 (3)	13 (4)	16 (4)	22 (6)
5	1 (1)	1 (1)	55 (10)	78 (14)	16 (2)	22 (3)	27 (9)	38 (13)	13 (4)	19 (6)	15 (4)	21 (5)
6	2 (1)	2 (1)	65 (8)	93 (12)	16 (2)	23 (3)	34 (9)	48 (12)	12 (1)	17 (2)	17 (6)	24 (8)
7	2 (1)	1 (1)	63 (9)	90 (13)	14 (2)	20 (3)	54 (16)	77 (23)	11 (2)	16 (3)	24 (15)	35 (21)
8	3 (1)	0 (1)	56 (7)	80 (10)	15 (4)	22 (5)	70 (6)	101 (9)	11 (3)	16 (5)	24 (25)	34 (35)
9	1 (1)	0 (1)	62 (8)	89 (12)	14 (3)	19 (5)	64 (7)	91 (10)			36 (11)	51 (16)
10	0 (1)	1 (1)	70 (8)	100 (12)	15 (3)	22 (4)	74 (13)	106 (19)	11 (2)	16 (3)	30 (10)	43 (14)
11	2 (1)	1 (1)	66 (11)	94 (16)	17 (7)	24 (9)	89 (7)	128 (10)	12 (3)	17 (5)	47 (17)	67 (25)
12	5 (1)	5 (1)	61 (10)	88 (15)	18 (6)	25 (9)	81 (5)	116 (8)	13 (4)	19 (6)	29 (16)	42 (22)
13	3 (1)	2 (0)	69 (6)	99 (9)	13 (2)	19 (2)	70 (3)	100 (5)	11 (1)	15 (2)	53 (21)	76 (30)
14	2 (1)	1 (1)	63 (11)	91 (16)	12 (4)	17 (5)	71 (4)	101 (6)	10 (3)	14 (4)	39 (9)	56 (13)
15	1 (1)	1 (1)	67 (10)	96 (15)	15 (4)	22 (6)	90 (5)	128 (7)	13 (6)	18 (9)	26 (14)	37 (20)
16	2 (1)	1 (1)	57 (10)	82 (15)	15 (3)	21 (5)	87 (7)	124 (10)	11 (2)	16 (3)	52 (47)	75 (67)
17	4 (1)	1 (0)	52 (12)	75 (17)	14 (2)	21 (3)	84 (10)	121 (14)	14 (5)	20 (7)	37 (18)	53 (26)
18	3 (1)	2 (1)	43 (9)	62 (12)	20 (6)	29 (8)	58 (12)	83 (17)	19 (6)	27 (9)	28 (19)	40 (27)
19	1 (1)	2 (1)	46 (9)	65 (13)	28 (3)	40 (4)	63 (15)	90 (22)	31 (7)	45 (10)	55 (15)	78 (22)
20	2 (1)	3 (1)	63 (9)	90 (13)	33 (3)	48 (4)	61 (15)	87 (22)	34 (4)	49 (6)	56 (18)	80 (26)
21	1 (1)	2 (2)	64 (11)	91 (16)	27 (9)	38 (13)	58 (16)	84 (24)	27 (9)	39 (13)	36 (14)	51 (20)
22	3 (2)	3 (1)	53 (11)	76 (16)	31 (5)	44 (8)	80 (5)	115 (7)	33 (6)	47 (9)	29 (24)	41 (34)
23	3 (2)	1 (1)	43 (14)	61 (20)	26 (10)	38 (14)	55 (20)	78 (28)	37 (7)	53 (11)	17 (4)	25 (6)
24	4 (2)	1 (0)	36 (4)	51 (6)	18 (4)	25 (6)	32 (9)	45 (14)	24 (5)	34 (8)	13 (8)	19 (11)
25	2 (1)	2 (1)	34 (8)	48 (12)	24 (6)	34 (8)	42 (18)	60 (26)	31 (8)	45 (11)	42 (33)	59 (47)
26	3 (1)	7 (1)	41 (6)	59 (9)	23 (4)	33 (5)	61 (5)	87 (8)	40 (2)	57 (2)	54 (17)	77 (24)
27	2 (1)	5 (1)	52 (7)	74 (10)	25 (5)	36 (8)	57 (5)	82 (8)	42 (6)	60 (9)	64 (17)	91 (24)
28	1 (0)	1 (1)	45 (11)	64 (15)	13 (6)	19 (8)	52 (5)	74 (7)	25 (11)	36 (16)	39 (12)	56 (17)
29	3 (1)	4 (2)	38 (7)	54 (10)	22 (6)	31 (9)	52 (12)	74 (17)	34 (9)	49 (13)	117 (29)	167 (42)
30	7 (2)	11 (4)	42 (9)	61 (13)	27 (6)	39 (9)	56 (11)	81 (16)	45 (4)	64 (6)	78 (41)	110 (58)
31	1 (1)	3 (3)	39 (7)	57 (11)	20 (7)	28 (10)	45 (9)	65 (13)	28 (8)	41 (11)	31 (16)	44 (23)
Avg	2	2	53	75	19	27	60	86	21	30	38.1	54.3
n	31	31	31	31	31	31	31	31	30	30	31	31
SD	2	2	11	15	6	9	17	24	11	16	21.2	30.2
Min	0	0	34	48	11	15	27	38	9	13	13.4	19.0
Max	7	11	70	100	33	48	90	128	45	64	117.0	167.0

ED_001509B_00005068-00234

Table F11. Hydrogen sulfide emissions.

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for January, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-}$
1												
2												
3	482.0 (219.0)	176.0 (80.2)	1.84 (0.84)	695.0 (315.0)	117.0 (36.8)	42.6 (13.5)	0.45 (0.14)	185.0 (58.5)				
4	506.0 (454.0)	185.0 (166.0)	1.93 (1.73)	727.0 (653.0)								
5	41.2 (69.5)	15.1 (25.4)	0.16 (0.27)	58.7 (99.1)	302.0 (112.0)	111.0 (41.0)	1.18 (0.44)	478.0 (177.0)				
6	303.0 (230.0)	111.0 (84.1)	1.16 (0.88)	430.0 (326.0)	452.0 (160.0)	165.0 (58.4)	1.76 (0.62)	709.0 (249.0)				
7	766.0 (385.0)	280.0 (141.0)	2.92 (1.47)	1080.0 (543.0)	396.0 (148.0)	145.0 (54.3)	1.54 (0.58)	616.0 (231.0)				
8	888.0 (319.0)	325.0 (117.0)	3.38 (1.22)	1250.0 (446.0)	409.0 (211.0)	150.0 (77.1)	1.60 (0.82)	631.0 (325.0)				
9	687.0 (267.0)	251.0 (97.7)	2.62 (1.02)	960.0 (374.0)	192.0 (51.7)	70.2 (18.9)	0.75 (0.20)	294.0 (78.7)				
10	702.0 (124.0)	257.0 (45.5)	2.68 (0.47)	976.0 (172.0)	310.0 (144.0)	113.0 (52.6)	1.21 (0.56)	470.0 (217.0)				
11	736.0 (191.0)	269.0 (69.9)	2.81 (0.73)	1020.0 (265.0)	420.0 (128.0)	154.0 (47.0)	1.64 (0.50)	633.0 (193.0)				
12	896.0 (146.0)	328.0 (53.4)	3.41 (0.56)	1230.0 (200.0)	285.0 (121.0)	104.0 (44.3)	1.11 (0.47)	428.0 (182.0)				
13	1250.0 (450.0)	456.0 (165.0)	4.75 (1.72)	1710.0 (617.0)	239.0 (83.8)	87.5 (30.7)	0.94 (0.33)	357.0 (125.0)				
14	818.0 (384.0)	299.0 (140.0)	3.12 (1.46)	1120.0 (525.0)	312.0 (58.0)	114.0 (21.2)	1.22 (0.23)	464.0 (85.9)				
15	497.0 (93.4)	182.0 (34.2)	1.89 (0.36)	676.0 (126.0)	304.0 (67.4)	111.0 (24.7)	1.19 (0.26)	450.0 (100.0)				
16	748.0 (113.0)	274.0 (41.4)	2.85 (0.43)	1010.0 (154.0)	177.0 (89.9)	64.8 (32.9)	0.69 (0.35)	262.0 (133.0)				
17	908.0 (96.5)	332.0 (35.3)	3.46 (0.37)	1230.0 (130.0)	321.0 (135.0)	117.0 (49.5)	1.25 (0.53)	472.0 (199.0)				
18	1130.0 (383.0)	414.0 (140.0)	4.32 (1.46)	1530.0 (515.0)	404.0 (157.0)	148.0 (57.3)	1.58 (0.61)	592.0 (229.0)				
19												
20	1380.0 (184.0)	506.0 (67.4)	5.28 (0.70)	1850.0 (246.0)	336.0 (118.0)	123.0 (43.2)	1.32 (0.46)	486.0 (170.0)				
21	1580.0 (280.0)	577.0 (103.0)	6.01 (1.07)	2110.0 (375.0)	387.0 (171.0)	142.0 (62.7)	1.51 (0.67)	556.0 (247.0)				
22	1230.0 (419.0)	450.0 (153.0)	4.69 (1.60)	1640.0 (559.0)	514.0 (147.0)	188.0 (53.6)	2.01 (0.57)	732.0 (208.0)				
23	899.0 (168.0)	329.0 (61.5)	3.43 (0.64)	1190.0 (224.0)	578.0 (121.0)	211.0 (44.3)	2.26 (0.47)	818.0 (173.0)				
24	767.0 (137.0)	280.0 (49.9)	2.92 (0.52)	1020.0 (181.0)	514.0 (99.4)	188.0 (36.3)	2.01 (0.39)	721.0 (140.0)				
25	424.0 (73.0)	155.0 (26.7)	1.62 (0.28)	560.0 (96.4)	494.0 (129.0)	181.0 (47.2)	1.93 (0.51)	689.0 (181.0)				
26	470.0 (89.9)	172.0 (32.9)	1.79 (0.34)	620.0 (119.0)	439.0 (108.0)	161.0 (39.3)	1.72 (0.42)	608.0 (149.0)				
27	644.0 (81.4)	236.0 (29.8)	2.46 (0.31)	849.0 (107.0)	718.0 (177.0)	263.0 (64.8)	2.81 (0.69)	989.0 (243.0)				
28	610.0 (162.0)	223.0 (59.1)	2.33 (0.62)	803.0 (213.0)	814.0 (122.0)	298.0 (44.5)	3.19 (0.48)	1110.0 (166.0)				
29	646.0 (234.0)	236.0 (85.5)	2.46 (0.89)	850.0 (308.0)	994.0 (233.0)	364.0 (85.1)	3.90 (0.91)	1350.0 (316.0)				
30	452.0 (286.0)	165.0 (105.0)	1.72 (1.09)	595.0 (377.0)	745.0 (126.0)	272.0 (46.2)	2.92 (0.50)	1010.0 (171.0)				
31	910.0 (190.0)	333.0 (69.6)	3.47 (0.73)	1200.0 (250.0)	636.0 (71.1)	233.0 (26.0)	2.49 (0.28)	857.0 (95.0)				
Avg	763.0	279.0	2.91	1030.0	437.0	160.0	1.71	629.0				
n	28	28	28	28	27	27	27	27	0	0	0	0
SD	330.0	121.0	1.26	441.0	201.0	73.5	0.79	263.0				
Min	41.2	15.1	0.16	58.7	117.0	42.6	0.45	185.0				
Max	1580.0	577	6.01	2110.0	994.0	364.0	3.90	1350.0				

ED_001509B_00005068-00235

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for February, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-}$
1	651.0 (274.0)	238.0 (100.0)	2.48 (1.04)	856.0 (360.0)	878.0 (157.0)	321.0 (57.4)	3.44 (0.62)	1170.0 (209.0)				
2	478.0 (78.5)	175.0 (28.7)	1.82 (0.30)	628.0 (103.0)	679.0 (203.0)	248.0 (74.1)	2.66 (0.79)	905.0 (271.0)				
3	671.0 (118.0)	245.0 (43.2)	2.56 (0.45)	881.0 (155.0)	773.0 (88.9)	283.0 (32.5)	3.03 (0.35)	1030.0 (118.0)				
4	671.0 (138.0)	245.0 (50.5)	2.56 (0.53)	881.0 (181.0)	625.0 (173.0)	228.0 (63.4)	2.45 (0.68)	830.0 (231.0)				
5	604.0 (173.0)	221.0 (64.2)	2.30 (0.67)	792.0 (231.0)	648.0 (132.0)	237.0 (48.2)	2.54 (0.52)	859.0 (175.0)				
6	501.0 (153.0)	183.0 (55.9)	1.91 (0.58)	657.0 (201.0)	623.0 (136.0)	228.0 (49.7)	2.44 (0.53)	824.0 (179.0)				
7	441.0 (135.0)	161.0 (49.2)	1.68 (0.51)	579.0 (176.0)	350.0 (219.0)	128.0 (80.1)	1.37 (0.86)	462.0 (289.0)				
8												
9												
10	217.0 (67.6)	79.3 (24.7)	0.83 (0.26)	284.0 (88.5)	214.0 (37.0)	78.4 (13.5)	0.84 (0.15)	282.0 (48.8)				
11												
12												
13	472.0 (196.0)	173.0 (71.5)	1.80 (0.75)	618.0 (256.0)	302.0 (51.1)	110.0 (18.7)	1.19 (0.20)	399.0 (67.5)				
14	256.0 (80.8)	93.8 (29.6)	0.98 (0.31)	336.0 (106.0)	197.0 (57.1)	72.2 (20.9)	0.78 (0.22)	261.0 (75.4)				
15	180.0 (120.0)	65.8 (44.0)	0.69 (0.46)	235.0 (157.0)	170.0 (138.0)	62.0 (50.5)	0.67 (0.54)	224.0 (182.0)				
16	155.0 (54.5)	56.8 (19.9)	0.59 (0.21)	203.0 (71.1)	28.8 (93.1)	10.5 (34.0)	0.11 (0.37)	38.1 (123.0)				
17	151.0 (144.0)	55.1 (52.8)	0.58 (0.55)	197.0 (188.0)	-2.1 (72.4)	-0.8 (26.5)	-0.01 (0.29)	-2.8 (95.8)				
18	135.0 (85.8)	49.3 (31.4)	0.51 (0.33)	176.0 (112.0)	11.1 (25.7)	4.1 (9.4)	0.04 (0.10)	14.7 (34.0)				
19	226.0 (152.0)	82.6 (55.5)	0.86 (0.58)	294.0 (198.0)	-37.2 (58.5)	-13.6 (21.4)	-0.15 (0.23)	-49.3 (77.6)				
20	151.0 (90.0)	55.2 (32.9)	0.58 (0.34)	197.0 (117.0)	-6.4 (121.0)	-2.3 (44.1)	-0.03 (0.47)	-8.4 (160.0)				
21	203.0 (76.6)	74.3 (28.0)	0.78 (0.29)	264.0 (99.8)	-18.7 (29.0)	-6.8 (10.6)	-0.07 (0.11)	-24.8 (38.5)				
22												
23												
24	308.0 (103.0)	113.0 (37.7)	1.18 (0.39)	400.0 (134.0)	84.6 (72.1)	30.9 (26.4)	0.33 (0.28)	112.0 (95.8)				
25	365.0 (101.0)	133.0 (36.8)	1.39 (0.38)	474.0 (131.0)	145.0 (72.8)	53.1 (26.6)	0.57 (0.29)	193.0 (96.7)				
26	299.0 (68.5)	109.0 (25.1)	1.14 (0.26)	388.0 (89.0)	237.0 (120.0)	86.5 (44.1)	0.93 (0.47)	314.0 (160.0)				
27	347.0 (150.0)	127.0 (55.0)	1.32 (0.58)	450.0 (195.0)	148.0 (107.0)	54.3 (39.0)	0.59 (0.42)	197.0 (142.0)				
28												
29	238.0 (72.9)	86.9 (26.7)	0.91 (0.28)	308.0 (94.5)	298.0 (139.0)	109.0 (50.8)	1.17 (0.55)	396.0 (185.0)				
Avg	351.0	128.0	1.34	459.0	288.0	106.0	1.13	383.0				
n	22	22	22	22	22	22	22	22	0	0	0	0
SD	178.0	65.0	0.68	234.0	280.0	102.0	1.10	372.0				
Min	135.0	49.3	0.51	176.0	-37.2	-13.6	-0.15	-49.3				
Max	671.0	245	2.56	881.0	878.0	321.0	3.44	1170.0				

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for March, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-}$
1	363.0 (81.5)	133.0 (29.8)	1.39 (0.31)	471.0 (106.0)	303.0 (82.5)	111.0 (30.2)	1.19 (0.33)	403.0 (110.0)				
2	585.0 (160.0)	214.0 (58.6)	2.23 (0.61)	760.0 (208.0)	338.0 (132.0)	124.0 (48.2)	1.33 (0.52)	449.0 (175.0)				
3	596.0 (195.0)	218.0 (71.3)	2.28 (0.75)	775.0 (254.0)	409.0 (205.0)	150.0 (74.8)	1.61 (0.81)	544.0 (272.0)				
4	344.0 (63.6)	126.0 (23.3)	1.31 (0.24)	448.0 (82.9)	467.0 (121.0)	171.0 (44.2)	1.84 (0.48)	622.0 (161.0)				
5	411.0 (70.1)	150.0 (25.6)	1.57 (0.27)	536.0 (91.5)	289.0 (101.0)	106.0 (36.9)	1.14 (0.40)	384.0 (134.0)				
6	558.0 (65.9)	204.0 (24.1)	2.13 (0.25)	729.0 (86.1)	339.0 (108.0)	124.0 (39.6)	1.34 (0.43)	451.0 (144.0)				
7	548.0 (58.3)	201.0 (21.3)	2.09 (0.22)	717.0 (76.1)	393.0 (130.0)	144.0 (47.4)	1.55 (0.51)	524.0 (173.0)				
8	545.0 (81.3)	199.0 (29.7)	2.08 (0.31)	714.0 (106.0)	334.0 (97.1)	122.0 (35.5)	1.32 (0.38)	445.0 (129.0)				
9	575.0 (126.0)	210.0 (46.0)	2.20 (0.48)	753.0 (165.0)	301.0 (139.0)	110.0 (50.8)	1.19 (0.55)	401.0 (185.0)				
10	579.0 (83.0)	212.0 (30.3)	2.21 (0.32)	759.0 (109.0)	411.0 (134.0)	150.0 (49.2)	1.62 (0.53)	548.0 (179.0)				
11	568.0 (107.0)	208.0 (39.0)	2.17 (0.41)	743.0 (140.0)	331.0 (108.0)	121.0 (39.6)	1.31 (0.43)	442.0 (144.0)				
12	558.0 (133.0)	204.0 (48.6)	2.13 (0.51)	731.0 (174.0)	326.0 (94.9)	119.0 (34.7)	1.29 (0.38)	435.0 (127.0)				
13	413.0 (119.0)	151.0 (43.6)	1.58 (0.46)	541.0 (156.0)	265.0 (45.1)	97.0 (16.5)	1.05 (0.18)	354.0 (60.2)				
14	458.0 (111.0)	168.0 (40.5)	1.75 (0.42)	600.0 (145.0)	336.0 (61.4)	123.0 (22.4)	1.33 (0.24)	448.0 (82.0)				
15	320.0 (60.8)	117.0 (22.2)	1.22 (0.23)	420.0 (79.7)	262.0 (34.7)	95.9 (12.7)	1.04 (0.14)	350.0 (46.4)				
16	387.0 (69.6)	142.0 (25.5)	1.48 (0.27)	507.0 (91.2)	238.0 (68.7)	86.9 (25.1)	0.94 (0.27)	316.0 (91.3)				
17	329.0 (88.9)	120.0 (32.5)	1.26 (0.34)	431.0 (116.0)	189.0 (53.2)	69.0 (19.5)	0.75 (0.21)	250.0 (70.5)				
18	578.0 (146.0)	211.0 (53.4)	2.21 (0.56)	757.0 (191.0)	324.0 (142.0)	119.0 (52.0)	1.29 (0.56)	430.0 (188.0)				
19	514.0 (106.0)	188.0 (38.9)	1.97 (0.41)	673.0 (139.0)	345.0 (56.7)	126.0 (20.7)	1.37 (0.23)	456.0 (74.9)				
20	555.0 (65.5)	203.0 (24.0)	2.12 (0.25)	727.0 (85.8)	342.0 (131.0)	125.0 (47.8)	1.36 (0.52)	451.0 (172.0)				
21	403.0 (82.8)	147.0 (30.3)	1.54 (0.32)	528.0 (108.0)	284.0 (71.5)	104.0 (26.2)	1.13 (0.28)	374.0 (94.1)				
22	307.0 (83.8)	112.0 (30.6)	1.17 (0.32)	402.0 (110.0)	271.0 (110.0)	99.2 (40.2)	1.08 (0.44)	357.0 (145.0)				
23	453.0 (113.0)	166.0 (41.2)	1.73 (0.43)	593.0 (148.0)	253.0 (149.0)	92.7 (54.6)	1.01 (0.59)	333.0 (196.0)				
24	368.0 (96.8)	135.0 (35.4)	1.41 (0.37)	483.0 (127.0)	241.0 (168.0)	88.3 (61.3)	0.96 (0.67)	317.0 (220.0)				
25	334.0 (173.0)	122.0 (63.2)	1.28 (0.66)	438.0 (227.0)	197.0 (189.0)	72.0 (69.0)	0.78 (0.75)	259.0 (248.0)				
26	507.0 (98.3)	186.0 (35.9)	1.94 (0.38)	665.0 (129.0)	389.0 (97.0)	142.0 (35.5)	1.55 (0.39)	512.0 (128.0)				
27	510.0 (84.6)	186.0 (30.9)	1.95 (0.32)	668.0 (111.0)	432.0 (81.8)	158.0 (29.9)	1.72 (0.33)	568.0 (108.0)				
28	479.0 (63.7)	175.0 (23.3)	1.83 (0.24)	628.0 (83.5)								
29	476.0 (120.0)	174.0 (43.9)	1.82 (0.46)	624.0 (157.0)	267.0 (128.0)	97.8 (46.9)	1.06 (0.51)	352.0 (169.0)				
30	524.0 (132.0)	192.0 (48.1)	2.00 (0.50)	686.0 (172.0)	352.0 (132.0)	129.0 (48.2)	1.40 (0.53)	464.0 (174.0)				
31	791.0 (182.0)	289.0 (66.4)	3.03 (0.69)	1040.0 (238.0)	642.0 (122.0)	235.0 (44.6)	2.56 (0.49)	849.0 (161.0)				
Avg	482.0	176.0	1.84	630.0	329.0	120.0	1.30	436.0				
n	31	31	31	31	30	30	30	30	0	0	0	0
SD	107.0	39.3	0.41	141.0	87.5	32.0	0.35	116.0				
Min	307.0	112.0	1.17	402.0	189.0	69.0	0.75	250.0				
Max	791.0	289	3.03	1040.0	642.0	235.0	2.56	849.0				

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for April, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	413.0 (171.0)	151.0 (62.6)	1.58 (0.66)	541.0 (224.0)	337.0 (173.0)	123.0 (63.1)	1.34 (0.69)	447.0 (228.0)				
2	529.0 (117.0)	193.0 (42.7)	2.02 (0.45)	692.0 (153.0)	243.0 (110.0)	88.8 (40.1)	0.97 (0.44)	323.0 (146.0)				
3												
4	682.0 (82.2)	249.0 (30.1)	2.61 (0.32)	892.0 (107.0)	523.0 (90.0)	191.0 (32.9)	2.08 (0.36)	698.0 (120.0)				
5	909.0 (328.0)	332.0 (120.0)	3.48 (1.25)	1190.0 (429.0)	476.0 (187.0)	174.0 (68.3)	1.90 (0.75)	637.0 (250.0)				
6	1170.0 (468.0)	427.0 (171.0)	4.46 (1.79)	1530.0 (614.0)	677.0 (227.0)	248.0 (82.9)	2.70 (0.90)	907.0 (304.0)				
7	1020.0 (368.0)	373.0 (135.0)	3.90 (1.41)	1340.0 (484.0)	621.0 (190.0)	227.0 (69.4)	2.48 (0.76)	832.0 (254.0)				
8	860.0 (303.0)	315.0 (111.0)	3.29 (1.16)	1130.0 (399.0)	500.0 (151.0)	183.0 (55.2)	2.00 (0.60)	671.0 (203.0)				
9	586.0 (132.0)	214.0 (48.2)	2.24 (0.50)	773.0 (173.0)	387.0 (76.1)	142.0 (27.9)	1.55 (0.30)	519.0 (102.0)	18.10 (19.70)	6.98 (7.60)	0.035 (0.039)	12.00 (13.10)
10	594.0 (86.1)	217.0 (31.5)	2.27 (0.33)	784.0 (113.0)	375.0 (83.5)	137.0 (30.5)	1.50 (0.33)	503.0 (112.0)	8.27 (11.20)	3.19 (4.30)	0.016 (0.022)	5.50 (7.43)
11	624.0 (181.0)	228.0 (66.1)	2.39 (0.69)	825.0 (239.0)	456.0 (125.0)	167.0 (45.8)	1.82 (0.50)	613.0 (168.0)	45.10 (50.70)	17.40 (19.50)	0.088 (0.099)	30.10 (33.80)
12	394.0 (54.9)	144.0 (20.1)	1.51 (0.21)	522.0 (72.5)	281.0 (68.3)	103.0 (25.0)	1.12 (0.27)	378.0 (91.8)	27.60 (19.60)	10.60 (7.56)	0.054 (0.038)	18.40 (13.10)
13	466.0 (107.0)	171.0 (39.1)	1.79 (0.41)	619.0 (142.0)	247.0 (102.0)	90.3 (37.3)	0.99 (0.41)	332.0 (137.0)	33.00 (33.10)	12.70 (12.70)	0.065 (0.065)	22.00 (22.10)
14	493.0 (68.0)	180.0 (24.9)	1.89 (0.26)	655.0 (90.4)	222.0 (104.0)	81.2 (37.9)	0.89 (0.41)	298.0 (139.0)	17.60 (21.90)	6.79 (8.46)	0.034 (0.043)	11.80 (14.70)
15	471.0 (112.0)	172.0 (40.9)	1.80 (0.43)	627.0 (149.0)	209.0 (50.6)	76.4 (18.5)	0.84 (0.20)	280.0 (67.9)	68.80 (50.30)	26.50 (19.40)	0.135 (0.099)	46.00 (33.60)
16	492.0 (108.0)	180.0 (39.6)	1.88 (0.41)	655.0 (144.0)	331.0 (145.0)	121.0 (53.1)	1.33 (0.58)	444.0 (195.0)	84.90 (132.00)	32.80 (51.00)	0.166 (0.259)	56.80 (88.50)
17									199.00 (428.00)	76.60 (165.00)	0.389 (0.838)	133.00 (286.00)
18	668.0 (228.0)	244.0 (83.5)	2.56 (0.87)	893.0 (305.0)	462.0 (188.0)	169.0 (68.7)	1.85 (0.75)	619.0 (251.0)	61.80 (112.00)	23.80 (43.00)	0.121 (0.218)	41.30 (74.60)
19	425.0 (80.1)	155.0 (29.3)	1.63 (0.31)	568.0 (107.0)	625.0 (149.0)	229.0 (54.6)	2.50 (0.60)	837.0 (200.0)	25.80 (24.80)	9.95 (9.58)	0.051 (0.049)	17.30 (16.60)
20	822.0 (339.0)	301.0 (124.0)	3.15 (1.30)	1100.0 (454.0)	802.0 (137.0)	293.0 (50.0)	3.21 (0.55)	1070.0 (183.0)	30.30 (83.20)	11.70 (32.10)	0.059 (0.163)	20.30 (55.60)
21	853.0 (258.0)	312.0 (94.2)	3.27 (0.99)	1140.0 (345.0)	559.0 (183.0)	205.0 (67.1)	2.24 (0.74)	748.0 (245.0)	19.20 (12.90)	7.40 (4.96)	0.038 (0.025)	12.80 (8.61)
22	798.0 (192.0)	292.0 (70.2)	3.06 (0.74)	1070.0 (257.0)	539.0 (152.0)	197.0 (55.4)	2.16 (0.61)	720.0 (202.0)	56.30 (108.00)	21.70 (41.80)	0.110 (0.213)	37.70 (72.60)
23												
24												
25	858.0 (193.0)	314.0 (70.5)	3.29 (0.74)	1150.0 (259.0)	319.0 (126.0)	117.0 (46.0)	1.28 (0.50)	425.0 (168.0)	17.50 (12.20)	6.76 (4.70)	0.034 (0.024)	11.70 (8.16)
26	383.0 (86.1)	140.0 (31.5)	1.47 (0.33)	514.0 (116.0)	418.0 (120.0)	153.0 (43.8)	1.68 (0.48)	559.0 (160.0)	5.43 (3.86)	2.09 (1.49)	0.011 (0.008)	3.63 (2.58)
27	503.0 (66.0)	184.0 (24.2)	1.93 (0.25)	677.0 (88.8)	439.0 (93.2)	161.0 (34.1)	1.76 (0.37)	588.0 (125.0)	2.70 (3.38)	1.04 (1.30)	0.005 (0.007)	1.81 (2.27)
28												
29	529.0 (72.8)	193.0 (26.6)	2.03 (0.28)	713.0 (98.1)	367.0 (67.0)	134.0 (24.5)	1.47 (0.27)	495.0 (90.6)	2.62 (8.53)	1.01 (3.29)	0.005 (0.017)	1.76 (5.76)
30	519.0 (95.7)	190.0 (35.0)	1.99 (0.37)	701.0 (129.0)	329.0 (69.5)	120.0 (25.4)	1.32 (0.28)	446.0 (93.9)	4.06 (7.90)	1.56 (3.05)	0.008 (0.016)	2.74 (5.34)
Avg	642.0	235.0	2.46	852.0	430.0	157.0	1.72	576.0	38.30	14.80	0.075	25.60
n	25	25	25	25	25	25	25	25	19	19	19	19
SD	208.0	76.2	0.80	273.0	149.0	54.4	0.60	199.0	44.40	17.10	0.087	29.70
Min	383.0	140.0	1.47	514.0	209.0	76.4	0.84	280.0	2.62	1.01	0.005	1.76
Max	1170.0	427	4.46	1530.0	802.0	293.0	3.21	1070.0	199.00	76.60	0.389	133.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for May, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1												
2	925.0 (173.0)	338.0 (63.2)	3.55 (0.66)	1250.0 (234.0)	712.0 (140.0)	260.0 (51.3)	2.86 (0.56)	971.0 (191.0)	50.50 (33.90)	19.50 (13.10)	0.099 (0.066)	34.30 (23.00)
3	714.0 (218.0)	261.0 (79.8)	2.74 (0.84)	968.0 (296.0)	519.0 (140.0)	190.0 (51.3)	2.09 (0.56)	707.0 (192.0)	38.30 (46.30)	14.80 (17.90)	0.075 (0.091)	26.00 (31.50)
4	672.0 (134.0)	246.0 (49.2)	2.58 (0.52)	909.0 (182.0)	573.0 (145.0)	210.0 (53.1)	2.31 (0.59)	778.0 (197.0)	22.40 (15.70)	8.64 (6.06)	0.044 (0.031)	15.20 (10.60)
5	695.0 (168.0)	254.0 (61.6)	2.66 (0.65)	939.0 (228.0)	465.0 (114.0)	170.0 (41.7)	1.87 (0.46)	630.0 (155.0)	30.70 (19.00)	11.90 (7.31)	0.060 (0.037)	20.80 (12.80)
6	590.0 (116.0)	216.0 (42.4)	2.26 (0.44)	797.0 (156.0)	417.0 (101.0)	153.0 (36.9)	1.68 (0.41)	563.0 (136.0)	29.70 (26.80)	11.40 (10.30)	0.058 (0.053)	20.00 (18.10)
7	507.0 (133.0)	185.0 (48.8)	1.94 (0.51)	683.0 (180.0)	431.0 (144.0)	158.0 (52.6)	1.73 (0.58)	580.0 (193.0)	13.80 (35.00)	5.30 (13.50)	0.027 (0.069)	9.26 (23.60)
8	620.0 (69.8)	227.0 (25.5)	2.38 (0.27)	835.0 (93.8)	433.0 (85.1)	159.0 (31.1)	1.75 (0.34)	581.0 (115.0)	8.84 (11.00)	3.41 (4.22)	0.017 (0.022)	5.94 (7.36)
9	621.0 (121.0)	227.0 (44.3)	2.38 (0.47)	835.0 (163.0)	419.0 (59.1)	153.0 (21.6)	1.69 (0.24)	560.0 (78.9)	5.20 (5.39)	2.01 (2.08)	0.010 (0.011)	3.49 (3.61)
10	556.0 (128.0)	203.0 (46.9)	2.13 (0.49)	747.0 (172.0)	361.0 (65.6)	132.0 (24.0)	1.46 (0.26)	482.0 (87.7)	16.40 (22.40)	6.31 (8.66)	0.032 (0.044)	11.00 (15.00)
11	568.0 (92.0)	208.0 (33.6)	2.18 (0.35)	765.0 (124.0)	422.0 (75.1)	154.0 (27.5)	1.70 (0.30)	562.0 (100.0)	9.16 (12.10)	3.53 (4.67)	0.018 (0.024)	6.14 (8.11)
12	634.0 (141.0)	232.0 (51.7)	2.43 (0.54)	855.0 (190.0)	405.0 (51.5)	148.0 (18.8)	1.63 (0.21)	540.0 (68.7)	15.50 (29.80)	5.98 (11.50)	0.031 (0.059)	10.40 (20.00)
13	659.0 (182.0)	241.0 (66.4)	2.53 (0.70)	891.0 (245.0)	469.0 (108.0)	171.0 (39.5)	1.89 (0.44)	624.0 (144.0)	105.00 (95.30)	40.40 (36.80)	0.206 (0.188)	70.30 (64.00)
14					529.0 (98.4)	194.0 (36.0)	2.14 (0.40)	705.0 (131.0)	68.30 (53.20)	26.30 (20.50)	0.134 (0.105)	45.80 (35.70)
15					479.0 (64.6)	175.0 (23.6)	1.93 (0.26)	638.0 (86.0)	22.00 (17.20)	8.49 (6.64)	0.043 (0.034)	14.80 (11.60)
16					539.0 (105.0)	197.0 (38.4)	2.18 (0.42)	717.0 (140.0)	21.40 (29.10)	8.26 (11.20)	0.042 (0.057)	14.40 (19.60)
17					605.0 (96.4)	221.0 (35.3)	2.44 (0.39)	804.0 (128.0)	25.20 (47.50)	9.70 (18.30)	0.050 (0.093)	16.90 (31.90)
18					558.0 (90.0)	204.0 (32.9)	2.25 (0.36)	742.0 (120.0)	20.20 (42.00)	7.78 (16.20)	0.040 (0.083)	13.60 (28.20)
19					526.0 (87.2)	192.0 (31.9)	2.13 (0.35)	700.0 (116.0)	16.70 (17.60)	6.44 (6.77)	0.033 (0.035)	11.20 (11.80)
20					450.0 (74.7)	165.0 (27.3)	1.82 (0.30)	599.0 (99.5)	8.76 (10.70)	3.38 (4.14)	0.017 (0.021)	5.88 (7.20)
21					495.0 (94.4)	181.0 (34.5)	2.00 (0.38)	659.0 (126.0)	16.90 (28.90)	6.51 (11.20)	0.033 (0.057)	11.30 (19.40)
22					536.0 (109.0)	196.0 (39.8)	2.17 (0.44)	714.0 (145.0)	12.10 (22.30)	4.67 (8.60)	0.024 (0.044)	8.12 (15.00)
23					591.0 (118.0)	216.0 (43.0)	2.39 (0.48)	787.0 (157.0)	20.00 (25.90)	7.71 (10.00)	0.039 (0.051)	13.40 (17.40)
24	819.0 (199.0)	299.0 (73.0)	3.14 (0.77)	1110.0 (269.0)	605.0 (108.0)	221.0 (39.4)	2.45 (0.44)	806.0 (144.0)	24.70 (22.10)	9.51 (8.51)	0.049 (0.044)	16.50 (14.80)
25	1140.0 (368.0)	416.0 (135.0)	4.37 (1.42)	1540.0 (498.0)	607.0 (213.0)	222.0 (77.7)	2.46 (0.86)	809.0 (283.0)	37.50 (22.80)	14.50 (8.80)	0.074 (0.045)	25.20 (15.30)
26	1220.0 (205.0)	448.0 (74.9)	4.71 (0.79)	1660.0 (277.0)	595.0 (139.0)	218.0 (50.7)	2.41 (0.56)	793.0 (185.0)	33.40 (33.50)	12.90 (12.90)	0.066 (0.066)	22.40 (22.50)
27	665.0 (126.0)	243.0 (46.0)	2.56 (0.48)	900.0 (170.0)	520.0 (72.3)	190.0 (26.5)	2.11 (0.29)	693.0 (96.3)	20.70 (19.30)	7.99 (7.44)	0.041 (0.038)	13.90 (13.00)
28	605.0 (113.0)	221.0 (41.4)	2.32 (0.44)	818.0 (153.0)	429.0 (64.2)	157.0 (23.5)	1.74 (0.26)	571.0 (85.5)	14.50 (11.60)	5.59 (4.49)	0.029 (0.023)	9.73 (7.81)
29	583.0 (102.0)	213.0 (37.2)	2.24 (0.39)	789.0 (138.0)	376.0 (67.2)	137.0 (24.6)	1.52 (0.27)	500.0 (89.4)	25.70 (29.70)	9.90 (11.50)	0.051 (0.059)	17.20 (20.00)
30	726.0 (241.0)	266.0 (88.2)	2.79 (0.93)	984.0 (327.0)	569.0 (160.0)	208.0 (58.6)	2.31 (0.65)	758.0 (213.0)	52.70 (39.90)	20.30 (15.40)	0.104 (0.079)	35.40 (26.80)
31	1040.0 (220.0)	381.0 (80.6)	4.00 (0.85)	1410.0 (299.0)	742.0 (101.0)	271.0 (36.8)	3.01 (0.41)	987.0 (134.0)	14.60 (27.90)	5.64 (10.80)	0.029 (0.055)	9.83 (18.80)
Avg	728.0	266.0	2.79	984.0	513.0	187.0	2.07	685.0	26.70	10.30	0.053	17.90
n	20	20	20	20	30	30	30	30	30	30	30	30
SD	195.0	71.5	0.75	265.0	91.4	33.4	0.37	123.0	20.10	7.75	0.040	13.50
Min	507.0	185.0	1.94	683.0	361.0	132.0	1.46	482.0	5.20	2.01	0.010	3.49
Max	1220.0	448	4.71	1660.0	742.0	271.0	3.01	987.0	105.00	40.40	0.206	70.30

ED_001509B_00005068-00239

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for June, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	959.0 (361.0)	351.0 (132.0)	3.69 (1.39)	1300.0 (491.0)	715.0 (109.0)	261.0 (40.0)	2.90 (0.44)	951.0 (146.0)	8.44 (10.70)	3.26 (4.14)	0.017 (0.021)	5.68 (7.22)
2	872.0 (495.0)	319.0 (181.0)	3.35 (1.90)	1190.0 (674.0)	515.0 (116.0)	188.0 (39.1)	2.08 (0.43)	682.0 (140.0)	19.70 (15.90)	7.60 (6.13)	0.039 (0.031)	13.30 (10.70)
3	936.0 (240.0)	342.0 (87.8)	3.60 (0.92)	1280.0 (328.0)	756.0 (167.0)	277.0 (61.0)	3.07 (0.68)	1010.0 (222.0)	31.80 (28.40)	12.20 (11.00)	0.063 (0.056)	21.40 (19.10)
4	1440.0 (297.0)	526.0 (108.0)	5.53 (1.14)	1970.0 (406.0)	790.0 (153.0)	289.0 (56.1)	3.21 (0.62)	1050.0 (204.0)	39.90 (31.80)	15.40 (12.20)	0.079 (0.063)	26.90 (21.40)
5	1720.0 (366.0)	630.0 (134.0)	6.62 (1.41)	2360.0 (502.0)	678.0 (77.9)	248.0 (28.5)	2.75 (0.32)	902.0 (104.0)	45.50 (27.60)	17.50 (10.60)	0.090 (0.055)	30.70 (18.60)
6	1130.0 (239.0)	413.0 (87.6)	4.35 (0.92)	1550.0 (328.0)	410.0 (97.0)	150.0 (35.5)	1.67 (0.39)	546.0 (129.0)	60.80 (31.10)	23.50 (12.00)	0.120 (0.061)	41.10 (21.00)
7	1090.0 (249.0)	400.0 (91.0)	4.21 (0.96)	1500.0 (341.0)	387.0 (133.0)	142.0 (48.5)	1.57 (0.54)	515.0 (177.0)	45.70 (26.90)	17.60 (10.40)	0.090 (0.053)	30.90 (18.20)
8	2090.0 (747.0)	764.0 (273.0)	8.04 (2.87)	2860.0 (1020.0)	780.0 (117.0)	285.0 (42.9)	3.17 (0.48)	1040.0 (156.0)	33.30 (18.10)	12.80 (6.98)	0.066 (0.036)	22.50 (12.20)
9	1020.0 (339.0)	374.0 (124.0)	3.94 (1.30)	1400.0 (463.0)	523.0 (76.9)	191.0 (28.1)	2.13 (0.31)	699.0 (103.0)	29.40 (35.40)	11.30 (13.60)	0.058 (0.070)	19.90 (23.90)
10	619.0 (109.0)	226.0 (39.9)	2.38 (0.42)	845.0 (149.0)	242.0 (95.4)	88.6 (34.9)	0.99 (0.39)	324.0 (128.0)	22.60 (26.50)	8.70 (10.20)	0.045 (0.052)	15.20 (17.90)
11	629.0 (91.0)	230.0 (33.3)	2.42 (0.35)	858.0 (124.0)	406.0 (74.5)	148.0 (27.2)	1.65 (0.30)	544.0 (100.0)	77.90 (62.10)	30.10 (23.90)	0.154 (0.123)	52.70 (42.00)
12	929.0 (193.0)	340.0 (70.5)	3.58 (0.74)	1260.0 (262.0)	526.0 (99.6)	192.0 (36.4)	2.14 (0.41)	706.0 (134.0)	51.20 (35.20)	19.70 (13.60)	0.101 (0.070)	34.60 (23.80)
13	1190.0 (129.0)	435.0 (47.2)	4.58 (0.50)	1620.0 (175.0)	630.0 (156.0)	230.0 (57.2)	2.56 (0.64)	848.0 (210.0)				
14	1130.0 (303.0)	412.0 (111.0)	4.33 (1.17)	1530.0 (411.0)	503.0 (172.0)	184.0 (62.9)	2.05 (0.70)	682.0 (231.0)	16.60 (14.00)	6.38 (5.40)	0.033 (0.028)	11.20 (9.53)
15	896.0 (223.0)	328.0 (81.7)	3.45 (0.86)	1220.0 (303.0)	529.0 (156.0)	193.0 (57.2)	2.15 (0.64)	727.0 (216.0)	20.70 (14.50)	7.99 (5.57)	0.041 (0.029)	14.20 (9.87)
16	783.0 (210.0)	287.0 (76.8)	3.02 (0.81)	1060.0 (285.0)					6.63 (7.82)	2.56 (3.02)	0.013 (0.016)	4.56 (5.39)
17	561.0 (80.3)	205.0 (29.4)	2.16 (0.31)	763.0 (109.0)	400.0 (76.0)	146.0 (27.8)	1.63 (0.31)	566.0 (107.0)	10.70 (11.20)	4.14 (4.30)	0.021 (0.022)	7.45 (7.75)
18	559.0 (119.0)	205.0 (43.5)	2.15 (0.46)	761.0 (162.0)	376.0 (76.5)	138.0 (28.0)	1.53 (0.31)	540.0 (109.0)	4.86 (7.58)	1.87 (2.92)	0.010 (0.015)	3.39 (5.28)
19	616.0 (138.0)	225.0 (50.3)	2.37 (0.53)	839.0 (187.0)	379.0 (86.0)	139.0 (31.5)	1.54 (0.35)	552.0 (125.0)	9.96 (11.00)	3.84 (4.23)	0.020 (0.022)	7.01 (7.74)
20	427.0 (93.7)	156.0 (34.3)	1.64 (0.36)	581.0 (128.0)	401.0 (103.0)	147.0 (37.6)	1.63 (0.42)	593.0 (151.0)	16.80 (16.30)	6.50 (6.28)	0.033 (0.032)	11.90 (11.50)
21	717.0 (174.0)	262.0 (63.7)	2.76 (0.67)	977.0 (237.0)	471.0 (126.0)	172.0 (46.2)	1.92 (0.52)	701.0 (188.0)	16.70 (14.70)	6.46 (5.66)	0.033 (0.029)	11.90 (10.40)
22	770.0 (239.0)	282.0 (87.4)	2.97 (0.92)	1050.0 (325.0)	580.0 (104.0)	212.0 (38.1)	2.37 (0.43)	859.0 (154.0)	17.70 (25.30)	6.82 (9.78)	0.035 (0.050)	12.50 (18.00)
23	827.0 (201.0)	303.0 (73.7)	3.19 (0.78)	1120.0 (274.0)	528.0 (84.6)	193.0 (30.9)	2.15 (0.35)	779.0 (125.0)	4.30 (5.09)	1.66 (1.96)	0.009 (0.010)	3.04 (3.60)
24	743.0 (138.0)	272.0 (50.3)	2.86 (0.53)	1010.0 (186.0)	460.0 (78.2)	168.0 (28.6)	1.88 (0.32)	676.0 (115.0)	7.41 (7.64)	2.86 (2.94)	0.015 (0.015)	5.23 (5.38)
25	900.0 (166.0)	329.0 (60.8)	3.47 (0.64)	1220.0 (225.0)	586.0 (101.0)	214.0 (37.1)	2.39 (0.41)	859.0 (148.0)	67.30 (64.10)	25.90 (24.70)	0.133 (0.127)	47.40 (45.10)
26					789.0 (102.0)	288.0 (37.2)	3.22 (0.42)	1150.0 (148.0)	276.00 (334.00)	106.00 (129.00)	0.547 (0.662)	194.00 (234.00)
27	1230.0 (147.0)	452.0 (53.6)	4.76 (0.57)	1670.0 (198.0)	947.0 (168.0)	346.0 (61.5)	3.86 (0.69)	1380.0 (244.0)	483.00 (601.00)	186.00 (232.00)	0.958 (1.190)	339.00 (421.00)
28	1230.0 (288.0)	449.0 (105.0)	4.73 (1.11)	1660.0 (389.0)	706.0 (143.0)	258.0 (52.3)	2.88 (0.58)	1020.0 (209.0)	35.70 (20.70)	13.80 (7.98)	0.071 (0.041)	24.90 (14.40)
29	760.0 (186.0)	278.0 (68.0)	2.93 (0.72)	1030.0 (251.0)	809.0 (141.0)	296.0 (51.6)	3.30 (0.58)	1160.0 (200.0)	40.00 (35.50)	15.40 (13.70)	0.079 (0.070)	27.80 (24.70)
30	786.0 (189.0)	288.0 (69.3)	3.03 (0.73)	1060.0 (256.0)	641.0 (167.0)	234.0 (61.0)	2.62 (0.68)	908.0 (238.0)	7.99 (13.80)	3.08 (5.31)	0.016 (0.027)	5.52 (9.53)
Avg	951.0	348.0	3.66	1290.0	568.0	208.0	2.31	792.0	52.00	20.10	0.103	36.00
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	352.0	129.0	1.35	482.0	166.0	60.6	0.68	234.0	95.10	36.70	0.189	66.80
Min	427.0	156.0	1.64	581.0	242.0	88.6	0.99	324.0	4.30	1.66	0.009	3.04
Max	2090.0	764	8.04	2860.0	947.0	346.0	3.86	1380.0	483.00	186.00	0.958	339.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for July, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	564.0 (114.0)	206.0 (41.6)	2.18 (0.44)	762.0 (154.0)	374.0 (61.6)	137.0 (22.5)	1.53 (0.25)	524.0 (87.0)	29.20 (27.30)	11.30 (10.50)	0.058 (0.054)	20.10 (18.70)
2	593.0 (152.0)	217.0 (55.5)	2.29 (0.59)	802.0 (205.0)	429.0 (88.8)	157.0 (32.5)	1.75 (0.36)	596.0 (122.0)	56.10 (21.60)	21.60 (8.32)	0.111 (0.043)	38.40 (14.80)
3	733.0 (126.0)	268.0 (46.2)	2.83 (0.49)	991.0 (171.0)	407.0 (87.6)	149.0 (32.0)	1.66 (0.36)	559.0 (121.0)	18.30 (16.70)	7.05 (6.44)	0.036 (0.033)	12.50 (11.40)
4	650.0 (106.0)	238.0 (38.7)	2.51 (0.41)	879.0 (143.0)	377.0 (102.0)	138.0 (37.3)	1.54 (0.42)	513.0 (140.0)	9.85 (9.93)	3.80 (3.83)	0.020 (0.020)	6.68 (6.73)
5	561.0 (72.6)	205.0 (26.6)	2.16 (0.28)	758.0 (98.3)	358.0 (68.0)	131.0 (24.9)	1.46 (0.28)	484.0 (92.2)	12.30 (12.20)	4.75 (4.69)	0.025 (0.024)	8.34 (8.22)
6	769.0 (180.0)	281.0 (65.8)	2.97 (0.69)	1040.0 (244.0)	455.0 (61.6)	167.0 (22.5)	1.86 (0.25)	614.0 (83.0)	21.90 (20.60)	8.44 (7.93)	0.043 (0.041)	14.80 (13.90)
7	796.0 (108.0)	291.0 (39.5)	3.07 (0.42)	1080.0 (146.0)	424.0 (59.5)	155.0 (21.8)	1.73 (0.24)	570.0 (80.3)	32.80 (26.70)	12.60 (10.30)	0.065 (0.053)	22.10 (18.10)
8	837.0 (117.0)	306.0 (42.7)	3.23 (0.45)	1130.0 (158.0)	514.0 (120.0)	188.0 (43.7)	2.10 (0.49)	690.0 (161.0)	24.20 (17.90)	9.33 (6.90)	0.048 (0.036)	16.30 (12.10)
9												
10	698.0 (304.0)	255.0 (111.0)	2.70 (1.17)	949.0 (413.0)	440.0 (85.0)	161.0 (31.1)	1.80 (0.35)	587.0 (114.0)	28.40 (25.80)	10.90 (9.94)	0.056 (0.051)	19.10 (17.40)
11	833.0 (152.0)	305.0 (55.8)	3.22 (0.59)	1130.0 (208.0)	505.0 (125.0)	185.0 (45.6)	2.07 (0.51)	672.0 (165.0)	32.10 (30.70)	12.40 (11.80)	0.064 (0.061)	21.60 (20.70)
12	1290.0 (162.0)	470.0 (59.1)	4.97 (0.62)	1750.0 (220.0)	652.0 (148.0)	239.0 (54.2)	2.67 (0.61)	868.0 (197.0)	30.30 (25.40)	11.70 (9.81)	0.060 (0.051)	20.40 (17.10)
13												
14	705.0 (149.0)	258.0 (54.4)	2.72 (0.57)	964.0 (203.0)	502.0 (102.0)	183.0 (37.3)	2.06 (0.42)	670.0 (136.0)	10.60 (12.00)	4.08 (4.64)	0.021 (0.024)	7.15 (8.14)
15	730.0 (152.0)	267.0 (55.8)	2.82 (0.59)	999.0 (208.0)	530.0 (69.4)	194.0 (25.4)	2.17 (0.28)	710.0 (93.1)	18.10 (15.00)	7.00 (5.78)	0.036 (0.030)	12.30 (10.10)
16	770.0 (103.0)	282.0 (37.5)	2.98 (0.40)	1060.0 (140.0)	701.0 (127.0)	256.0 (46.3)	2.87 (0.52)	941.0 (170.0)	15.80 (12.00)	6.08 (4.63)	0.031 (0.024)	10.70 (8.14)
17	894.0 (145.0)	327.0 (53.0)	3.45 (0.56)	1230.0 (199.0)	610.0 (114.0)	223.0 (41.7)	2.50 (0.47)	821.0 (154.0)	12.70 (11.50)	4.88 (4.43)	0.025 (0.023)	8.61 (7.80)
18												
19	832.0 (290.0)	304.0 (106.0)	3.22 (1.12)	1140.0 (399.0)	463.0 (290.0)	168.0 (107.0)	1.89 (1.20)	627.0 (391.0)	12.10 (13.70)	4.67 (5.30)	0.024 (0.027)	8.25 (9.36)
20	1390.0 (108.0)	507.0 (39.5)	5.35 (0.42)	1900.0 (148.0)	978.0 (115.0)	358.0 (41.9)	4.01 (0.47)	1320.0 (155.0)	13.30 (22.10)	5.13 (8.54)	0.027 (0.044)	9.06 (15.10)
21	1240.0 (190.0)	454.0 (69.6)	4.80 (0.74)	1700.0 (261.0)	684.0 (202.0)	250.0 (74.0)	2.81 (0.83)	924.0 (273.0)	12.30 (14.40)	4.74 (5.54)	0.025 (0.029)	8.36 (9.78)
22	949.0 (227.0)	347.0 (83.0)	3.67 (0.88)	1300.0 (311.0)	497.0 (93.0)	182.0 (34.0)	2.04 (0.38)	672.0 (126.0)	9.23 (14.20)	3.56 (5.46)	0.018 (0.028)	6.28 (9.63)
23									3.70 (6.81)	1.43 (2.63)	0.007 (0.014)	2.51 (4.62)
24	618.0 (125.0)	226.0 (45.6)	2.39 (0.48)	842.0 (170.0)	479.0 (95.6)	175.0 (35.0)	1.97 (0.39)	648.0 (129.0)	12.00 (13.00)	4.62 (5.01)	0.024 (0.026)	8.14 (8.81)
25	596.0 (100.0)	218.0 (36.6)	2.30 (0.39)	811.0 (136.0)	515.0 (113.0)	188.0 (41.3)	2.12 (0.46)	697.0 (153.0)	20.70 (16.30)	7.97 (6.28)	0.041 (0.032)	14.00 (11.00)
26	926.0 (196.0)	339.0 (71.9)	3.58 (0.76)	1260.0 (267.0)	585.0 (155.0)	214.0 (56.6)	2.40 (0.64)	791.0 (210.0)	12.80 (24.40)	4.93 (9.41)	0.026 (0.049)	8.67 (16.50)
27	692.0 (158.0)	253.0 (57.7)	2.68 (0.61)	941.0 (215.0)	677.0 (151.0)	248.0 (55.4)	2.78 (0.62)	916.0 (205.0)	11.70 (11.40)	4.53 (4.41)	0.023 (0.023)	7.96 (7.75)
28	754.0 (162.0)	276.0 (59.2)	2.92 (0.63)	1020.0 (220.0)	602.0 (99.6)	220.0 (36.4)	2.47 (0.41)	813.0 (135.0)	16.60 (23.20)	6.41 (8.97)	0.033 (0.046)	11.30 (15.80)
29	659.0 (131.0)	241.0 (47.8)	2.55 (0.51)	896.0 (178.0)	396.0 (117.0)	145.0 (42.8)	1.63 (0.48)	534.0 (158.0)	27.10 (52.10)	10.50 (20.10)	0.054 (0.104)	18.40 (35.30)
30	494.0 (101.0)	181.0 (37.0)	1.91 (0.39)	672.0 (138.0)	347.0 (46.7)	127.0 (17.1)	1.43 (0.19)	468.0 (63.1)	14.90 (40.70)	5.76 (15.70)	0.030 (0.081)	10.10 (27.60)
31	523.0 (91.7)	191.0 (33.6)	2.02 (0.36)	711.0 (125.0)	242.0 (65.5)	88.4 (23.9)	1.00 (0.27)	326.0 (88.3)	6.04 (8.04)	2.33 (3.10)	0.012 (0.016)	4.09 (5.45)
Avg	781.0	286.0	3.02	1060.0	509.0	186.0	2.09	687.0	18.80	7.23	0.037	12.70
n	27	27	27	27	27	27	27	27	28	28	28	28
SD	220.0	80.3	0.85	303.0	145.0	52.9	0.59	194.0	10.70	4.12	0.021	7.27
Min	494.0	181.0	1.91	672.0	242.0	88.4	1.00	326.0	3.70	1.43	0.007	2.51
Max	1390.0	507	5.35	1900.0	978.0	358.0	4.01	1320.0	56.10	21.60	0.111	38.40

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for August, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	468.0 (98.6)	171.0 (36.1)	1.81 (0.38)	637.0 (134.0)	372.0 (122.0)	136.0 (44.6)	1.53 (0.50)	501.0 (164.0)	5.83 (10.70)	2.25 (4.14)	0.012 (0.021)	3.94 (7.27)
2	290.0 (122.0)	106.0 (44.6)	1.12 (0.47)	395.0 (166.0)	165.0 (90.5)	60.4 (33.1)	0.68 (0.37)	222.0 (122.0)	6.72 (10.40)	2.59 (4.03)	0.013 (0.021)	4.55 (7.07)
3	292.0 (81.4)	107.0 (29.8)	1.13 (0.32)	398.0 (111.0)	261.0 (86.6)	95.4 (31.7)	1.07 (0.36)	351.0 (116.0)	23.30 (28.60)	9.00 (11.00)	0.047 (0.057)	15.80 (19.30)
4	311.0 (82.1)	114.0 (30.0)	1.20 (0.32)	423.0 (112.0)	124.0 (105.0)	45.5 (38.5)	0.51 (0.43)	167.0 (141.0)	20.40 (20.90)	7.88 (8.04)	0.041 (0.042)	13.80 (14.10)
5												
6	721.0 (340.0)	262.0 (125.0)	2.78 (1.33)	979.0 (467.0)	389.0 (132.0)	142.0 (48.4)	1.60 (0.55)	520.0 (177.0)	5.76 (19.60)	2.22 (7.57)	0.012 (0.039)	3.89 (13.30)
7												
8	474.0 (89.6)	173.0 (32.8)	1.84 (0.35)	647.0 (122.0)	251.0 (37.8)	91.8 (13.8)	1.03 (0.16)	335.0 (50.4)	5.66 (9.41)	2.18 (3.63)	0.011 (0.019)	3.82 (6.35)
9	531.0 (98.7)	194.0 (36.1)	2.06 (0.38)	726.0 (135.0)	357.0 (46.8)	131.0 (17.1)	1.47 (0.19)	477.0 (62.5)	14.80 (51.20)	5.69 (19.70)	0.030 (0.102)	9.96 (34.50)
10	610.0 (129.0)	223.0 (47.3)	2.36 (0.50)	833.0 (177.0)	451.0 (48.3)	165.0 (17.7)	1.86 (0.20)	603.0 (64.6)	7.89 (55.90)	3.04 (21.60)	0.016 (0.112)	5.33 (37.80)
11	581.0 (120.0)	212.0 (44.0)	2.25 (0.47)	792.0 (164.0)	399.0 (56.9)	146.0 (20.8)	1.65 (0.23)	533.0 (75.9)	12.70 (15.10)	4.89 (5.82)	0.025 (0.030)	8.57 (10.20)
12	599.0 (84.2)	219.0 (30.8)	2.32 (0.33)	817.0 (115.0)	441.0 (83.7)	161.0 (30.6)	1.82 (0.35)	590.0 (112.0)	17.40 (17.70)	6.70 (6.83)	0.035 (0.035)	11.70 (12.00)
13	619.0 (126.0)	226.0 (46.3)	2.40 (0.49)	844.0 (172.0)	422.0 (65.4)	154.0 (23.9)	1.74 (0.27)	566.0 (87.6)	11.60 (12.20)	4.48 (4.69)	0.023 (0.024)	7.86 (8.22)
14	583.0 (132.0)	213.0 (48.1)	2.26 (0.51)	795.0 (179.0)	455.0 (99.3)	166.0 (36.3)	1.88 (0.41)	610.0 (133.0)	8.05 (12.60)	3.10 (4.87)	0.016 (0.025)	5.44 (8.54)
15	506.0 (83.4)	185.0 (30.5)	1.96 (0.32)	689.0 (114.0)	377.0 (62.4)	138.0 (22.8)	1.56 (0.26)	507.0 (83.7)	6.44 (36.20)	2.49 (14.00)	0.013 (0.072)	4.36 (24.50)
16	488.0 (118.0)	178.0 (43.3)	1.89 (0.46)	666.0 (162.0)	359.0 (84.0)	131.0 (30.7)	1.48 (0.35)	483.0 (113.0)	7.27 (75.40)	2.81 (29.10)	0.015 (0.151)	4.93 (51.10)
17	596.0 (159.0)	218.0 (58.0)	2.31 (0.62)	815.0 (217.0)	506.0 (150.0)	185.0 (55.0)	2.09 (0.62)	683.0 (203.0)	8.33 (8.13)	3.21 (3.13)	0.017 (0.016)	5.66 (5.52)
18	585.0 (97.2)	214.0 (35.5)	2.27 (0.38)	802.0 (133.0)	467.0 (91.1)	171.0 (33.3)	1.93 (0.38)	632.0 (123.0)				
19	459.0 (105.0)	168.0 (38.2)	1.78 (0.41)	629.0 (143.0)	291.0 (113.0)	106.0 (41.2)	1.20 (0.47)	395.0 (153.0)				
20	348.0 (75.4)	127.0 (27.6)	1.35 (0.29)	479.0 (104.0)	354.0 (75.6)	129.0 (27.7)	1.46 (0.31)	481.0 (103.0)				
21	411.0 (92.1)	150.0 (33.7)	1.59 (0.36)	566.0 (127.0)	441.0 (106.0)	161.0 (38.7)	1.82 (0.44)	602.0 (144.0)	8.06 (9.38)	3.11 (3.62)	0.016 (0.019)	5.53 (6.44)
22	716.0 (118.0)	262.0 (43.3)	2.78 (0.46)	988.0 (164.0)	558.0 (78.2)	204.0 (28.6)	2.31 (0.32)	763.0 (107.0)	21.00 (20.80)	8.08 (8.04)	0.042 (0.042)	14.40 (14.30)
23	797.0 (127.0)	291.0 (46.4)	3.09 (0.49)	1100.0 (175.0)	663.0 (83.7)	243.0 (30.6)	2.74 (0.35)	910.0 (115.0)	17.80 (20.90)	6.85 (8.07)	0.036 (0.042)	12.20 (14.40)
24	769.0 (190.0)	281.0 (69.5)	2.99 (0.74)	1060.0 (263.0)	598.0 (109.0)	219.0 (39.7)	2.47 (0.45)	822.0 (149.0)	1.83 (6.45)	0.71 (2.49)	0.004 (0.013)	1.26 (4.44)
25	465.0 (105.0)	170.0 (38.4)	1.81 (0.41)	644.0 (145.0)	490.0 (84.1)	179.0 (30.8)	2.03 (0.35)	674.0 (116.0)	2.53 (9.08)	0.98 (3.50)	0.005 (0.018)	1.74 (6.27)
26	385.0 (105.0)	141.0 (38.6)	1.49 (0.41)	533.0 (146.0)	368.0 (71.0)	135.0 (26.0)	1.52 (0.29)	508.0 (98.0)	3.76 (5.77)	1.45 (2.23)	0.008 (0.012)	2.60 (3.99)
27	369.0 (91.2)	135.0 (33.3)	1.43 (0.35)	512.0 (126.0)	390.0 (90.7)	143.0 (33.2)	1.61 (0.38)	539.0 (126.0)	0.74 (4.06)	0.29 (1.56)	0.001 (0.008)	0.51 (2.81)
28					406.0 (101.0)	149.0 (36.9)	1.68 (0.42)	563.0 (140.0)	8.95 (9.63)	3.45 (3.71)	0.018 (0.019)	6.20 (6.67)
29	488.0 (113.0)	179.0 (41.2)	1.90 (0.44)	677.0 (156.0)	282.0 (154.0)	103.0 (56.4)	1.17 (0.64)	391.0 (214.0)	10.30 (13.90)	3.99 (5.38)	0.021 (0.028)	7.18 (9.67)
30	243.0 (59.0)	88.8 (21.6)	0.94 (0.23)	337.0 (81.8)	170.0 (89.6)	62.1 (32.8)	0.70 (0.37)	236.0 (124.0)	31.10 (270.00)	12.00 (104.00)	0.062 (0.541)	21.60 (187.00)
31	289.0 (74.7)	106.0 (27.3)	1.12 (0.29)	401.0 (104.0)	250.0 (64.8)	91.4 (23.7)	1.04 (0.27)	347.0 (89.9)	6.21 (8.05)	2.40 (3.11)	0.013 (0.016)	4.31 (5.58)
Avg	500.0	183.0	1.94	685.0	381.0	139.0	1.57	518.0	10.60	4.07	0.021	7.20
n	28	28	28	28	29	29	29	29	26	26	26	26
SD	149.0	54.5	0.58	205.0	123.0	45.0	0.51	168.0	7.22	2.78	0.014	4.95
Min	243.0	88.8	0.94	337.0	124.0	45.5	0.51	167.0	0.74	0.29	0.001	0.51
Max	797.0	291	3.09	1100.0	663.0	243.0	2.74	910.0	31.10	12.00	0.062	21.60

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for September, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	219.0 (76.7)	80.1 (28.0)	0.85 (0.30)	304.0 (106.0)	191.0 (39.1)	69.8 (14.3)	0.79 (0.16)	264.0 (54.3)				
2	252.0 (63.7)	92.3 (23.3)	0.98 (0.25)	350.0 (88.2)	218.0 (60.7)	79.8 (22.2)	0.91 (0.25)	302.0 (84.0)				
3	338.0 (47.0)	124.0 (17.2)	1.31 (0.18)	468.0 (65.1)	210.0 (46.9)	76.9 (17.2)	0.87 (0.20)	291.0 (64.8)	4.72 (8.23)	1.82 (3.18)	0.009 (0.017)	3.26 (5.70)
4	611.0 (146.0)	224.0 (53.4)	2.37 (0.57)	846.0 (202.0)	348.0 (108.0)	127.0 (39.3)	1.44 (0.45)	481.0 (148.0)	1.52 (7.56)	0.59 (2.91)	0.003 (0.015)	1.05 (5.22)
5	659.0 (131.0)	241.0 (47.9)	2.56 (0.51)	912.0 (181.0)	399.0 (99.4)	146.0 (36.4)	1.66 (0.41)	551.0 (137.0)	1.76 (3.81)	0.68 (1.47)	0.004 (0.008)	1.21 (2.64)
6	500.0 (132.0)	183.0 (48.3)	1.94 (0.51)	692.0 (183.0)	511.0 (78.4)	187.0 (28.7)	2.12 (0.33)	705.0 (108.0)	6.73 (12.30)	2.59 (4.75)	0.014 (0.025)	4.65 (8.51)
7	547.0 (175.0)	200.0 (64.0)	2.12 (0.68)	756.0 (242.0)	591.0 (109.0)	216.0 (39.8)	2.45 (0.45)	814.0 (150.0)	9.26 (11.10)	3.57 (4.27)	0.019 (0.022)	6.39 (7.64)
8												
9												
10												
11	427.0 (61.5)	156.0 (22.5)	1.66 (0.24)	590.0 (84.9)	405.0 (93.4)	148.0 (34.2)	1.69 (0.39)	557.0 (128.0)	16.80 (14.20)	6.48 (5.46)	0.034 (0.028)	11.60 (9.75)
12	608.0 (109.0)	222.0 (38.4)	2.36 (0.41)	839.0 (145.0)	386.0 (73.3)	141.0 (26.8)	1.61 (0.31)	531.0 (101.0)	18.00 (18.60)	6.93 (7.17)	0.036 (0.037)	12.40 (12.80)
13	682.0 (129.0)	250.0 (47.2)	2.65 (0.50)	941.0 (178.0)	557.0 (210.0)	204.0 (76.7)	2.32 (0.87)	765.0 (288.0)	18.90 (12.60)	7.28 (4.84)	0.038 (0.025)	13.00 (8.64)
14	656.0 (142.0)	240.0 (52.1)	2.55 (0.55)	905.0 (196.0)	513.0 (89.6)	188.0 (32.8)	2.13 (0.37)	705.0 (123.0)	12.80 (12.50)	4.95 (4.83)	0.026 (0.025)	8.83 (8.62)
15	498.0 (134.0)	182.0 (49.2)	1.94 (0.52)	685.0 (185.0)	438.0 (66.6)	160.0 (24.4)	1.82 (0.28)	602.0 (91.5)	6.11 (8.72)	2.36 (3.36)	0.012 (0.018)	4.21 (6.00)
16	407.0 (105.0)	149.0 (38.4)	1.58 (0.41)	560.0 (144.0)	392.0 (92.0)	143.0 (33.6)	1.63 (0.38)	540.0 (127.0)	18.80 (25.10)	7.25 (9.66)	0.038 (0.050)	12.90 (17.20)
17	461.0 (104.0)	169.0 (38.1)	1.80 (0.41)	634.0 (143.0)	474.0 (109.0)	173.0 (39.9)	1.97 (0.45)	653.0 (150.0)	25.80 (26.70)	9.96 (10.30)	0.052 (0.054)	17.80 (18.40)
18												
19	388.0 (80.6)	142.0 (29.5)	1.51 (0.31)	532.0 (111.0)	352.0 (53.6)	129.0 (19.6)	1.47 (0.22)	485.0 (74.0)	23.90 (15.10)	9.22 (5.82)	0.048 (0.030)	16.50 (10.40)
20	381.0 (106.0)	139.0 (38.7)	1.48 (0.41)	523.0 (145.0)	385.0 (62.7)	141.0 (22.9)	1.61 (0.26)	532.0 (86.5)	33.80 (58.50)	13.00 (22.60)	0.068 (0.118)	23.30 (40.30)
21	514.0 (184.0)	188.0 (67.2)	2.00 (0.72)	707.0 (253.0)	542.0 (134.0)	198.0 (48.9)	2.26 (0.56)	748.0 (185.0)	19.20 (18.40)	7.40 (7.11)	0.039 (0.037)	13.20 (12.70)
22	464.0 (156.0)	170.0 (56.9)	1.81 (0.61)	638.0 (214.0)	474.0 (107.0)	173.0 (39.2)	1.97 (0.45)	654.0 (148.0)	11.70 (11.70)	4.51 (4.51)	0.024 (0.024)	8.06 (8.06)
23	339.0 (84.8)	124.0 (31.0)	1.32 (0.33)	466.0 (117.0)	404.0 (104.0)	148.0 (37.9)	1.68 (0.43)	557.0 (143.0)	30.90 (23.80)	11.90 (9.19)	0.062 (0.048)	21.30 (16.40)
24	266.0 (67.3)	97.2 (24.6)	1.03 (0.26)	366.0 (92.8)	339.0 (86.4)	124.0 (31.6)	1.41 (0.36)	468.0 (119.0)	36.50 (31.90)	14.10 (12.30)	0.074 (0.064)	25.20 (22.00)
25	223.0 (85.4)	81.7 (31.2)	0.87 (0.33)	308.0 (118.0)	244.0 (40.5)	89.3 (14.8)	1.02 (0.17)	337.0 (55.8)	19.40 (15.20)	7.50 (5.86)	0.039 (0.031)	13.40 (10.50)
26	203.0 (59.8)	74.4 (21.9)	0.79 (0.23)	281.0 (82.7)	218.0 (43.2)	79.8 (15.8)	0.91 (0.18)	301.0 (59.6)	10.20 (9.63)	3.94 (3.71)	0.021 (0.019)	7.06 (6.64)
27	262.0 (83.4)	95.9 (30.5)	1.02 (0.33)	362.0 (115.0)	227.0 (28.5)	83.1 (10.4)	0.95 (0.12)	314.0 (39.6)	16.10 (15.70)	6.22 (6.07)	0.033 (0.032)	11.20 (10.90)
28	323.0 (93.7)	118.0 (34.3)	1.26 (0.37)	446.0 (129.0)	244.0 (69.9)	89.2 (25.6)	1.02 (0.29)	340.0 (97.6)	12.50 (13.90)	4.81 (5.37)	0.025 (0.028)	8.65 (9.65)
29	357.0 (103.0)	131.0 (37.5)	1.39 (0.40)	493.0 (142.0)	268.0 (133.0)	97.9 (48.5)	1.12 (0.55)	375.0 (185.0)	13.90 (14.70)	5.35 (5.67)	0.028 (0.030)	9.64 (10.20)
30	315.0 (63.8)	115.0 (23.4)	1.23 (0.25)	434.0 (88.0)					10.70 (16.30)	4.12 (6.29)	0.022 (0.033)	7.45 (11.40)
Avg	419.0	153.0	1.63	578.0	373.0	137.0	1.55	515.0	15.80	6.11	0.032	10.90
n	26	26	26	26	25	25	25	25	24	24	24	24
SD	144.0	52.6	0.56	199.0	119.0	43.4	0.49	163.0	9.22	3.55	0.019	6.34
Min	203.0	74.4	0.79	281.0	191.0	69.8	0.79	264.0	1.52	0.59	0.003	1.05
Max	682.0	250	2.65	941.0	591.0	216.0	2.45	814.0	36.50	14.10	0.074	25.20

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for October, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	317.0 (76.3)	116.0 (27.9)	1.24 (0.30)	437.0 (105.0)					2.40 (3.74)	0.92 (1.44)	0.005 (0.008)	1.68 (2.61)
2	302.0 (88.4)	111.0 (32.3)	1.18 (0.35)	416.0 (122.0)	19.9 (14.4)	7.3 (5.3)	0.08 (0.06)	28.6 (20.6)	3.62 (3.43)	1.40 (1.32)	0.007 (0.007)	2.54 (2.40)
3	260.0 (81.4)	95.0 (29.8)	1.01 (0.32)	357.0 (112.0)	111.0 (70.1)	40.5 (25.6)	0.46 (0.29)	160.0 (101.0)	2.27 (2.75)	0.88 (1.06)	0.005 (0.006)	1.60 (1.94)
4	336.0 (77.9)	123.0 (28.5)	1.31 (0.30)	461.0 (107.0)	202.0 (24.0)	74.0 (8.8)			2.47 (3.34)	0.95 (1.29)		
5	441.0 (60.5)	161.0 (22.1)	1.72 (0.24)	604.0 (82.9)	204.0 (38.9)	74.5 (14.2)			3.26 (3.45)	1.26 (1.33)		
6	434.0 (89.9)	159.0 (32.9)	1.69 (0.35)	594.0 (123.0)	93.9 (92.4)	34.3 (33.8)			-0.93 (12.80)	-0.36 (4.92)		
7	397.0 (59.7)	145.0 (21.8)	1.55 (0.23)	542.0 (81.3)	-0.3 (20.2)	-0.1 (7.4)			3.76 (9.58)	1.45 (3.70)		
8	465.0 (114.0)	170.0 (41.6)	1.81 (0.44)	633.0 (155.0)	1.4 (10.8)	0.5 (4.0)			0.10 (5.16)	0.04 (1.99)		
9	396.0 (115.0)	145.0 (42.0)	1.54 (0.45)	538.0 (156.0)	-10.8 (30.2)	-4.0 (11.0)			2.22 (2.93)	0.86 (1.13)		
10	321.0 (63.5)	117.0 (23.2)	1.25 (0.25)	435.0 (86.1)	-11.7 (23.8)	-4.3 (8.7)			1.12 (2.81)	0.43 (1.09)		
11	302.0 (80.2)	111.0 (29.3)	1.18 (0.31)	409.0 (109.0)	8.1 (23.7)	3.0 (8.7)			3.46 (4.82)	1.33 (1.86)		
12	286.0 (110.0)	105.0 (40.3)	1.12 (0.43)	388.0 (149.0)	-4.6 (52.8)	-1.7 (19.3)			5.34 (7.58)	2.06 (2.92)		
13	314.0 (98.7)	115.0 (36.1)	1.23 (0.39)	425.0 (134.0)	12.6 (29.7)	4.6 (10.9)			7.98 (5.35)	3.08 (2.06)		
14	290.0 (85.9)	106.0 (31.4)	1.13 (0.34)	393.0 (116.0)	22.9 (13.2)	8.4 (4.8)			2.91 (3.44)	1.12 (1.33)		
15	439.0 (171.0)	161.0 (62.6)	1.72 (0.67)	595.0 (232.0)	52.5 (21.6)	19.2 (7.9)			4.36 (6.77)	1.68 (2.61)		
16	342.0 (81.7)	125.0 (29.9)	1.34 (0.32)	464.0 (111.0)	32.1 (20.4)	11.7 (7.5)			1.31 (2.51)	0.50 (0.97)		
17	332.0 (93.5)	122.0 (34.2)	1.30 (0.37)	450.0 (127.0)	39.7 (21.4)	14.5 (7.8)			4.41 (4.63)	1.70 (1.79)		
18	351.0 (95.5)	129.0 (34.9)	1.37 (0.37)	477.0 (129.0)	71.3 (16.7)	26.1 (6.1)			7.18 (17.00)	2.77 (6.54)		
19	374.0 (93.5)	137.0 (34.2)	1.46 (0.37)	509.0 (127.0)	97.2 (34.4)	35.5 (12.6)			6.02 (7.10)	2.32 (2.74)		
20	421.0 (97.7)	154.0 (35.7)	1.64 (0.38)	574.0 (133.0)	77.9 (47.0)	28.5 (17.2)			4.20 (4.93)	1.62 (1.90)		
21	284.0 (53.3)	104.0 (19.5)	1.11 (0.21)	388.0 (72.6)	56.3 (20.4)	20.6 (7.5)			11.00 (12.50)	4.25 (4.82)		
22	309.0 (39.0)	113.0 (14.3)	1.21 (0.15)	424.0 (53.4)	72.1 (36.4)	26.4 (13.3)			15.10 (11.10)	5.83 (4.28)		
23	260.0 (75.9)	95.1 (27.8)	1.02 (0.30)	357.0 (104.0)	53.2 (17.8)	19.4 (6.5)			5.50 (8.09)	2.12 (3.12)		
24	236.0 (69.6)	86.3 (25.4)	0.92 (0.27)	325.0 (95.9)	90.6 (30.2)	33.2 (11.1)			62.30 (72.00)	24.00 (27.80)		
25	337.0 (74.5)	123.0 (27.2)	1.32 (0.29)	465.0 (103.0)	146.0 (28.6)	53.4 (10.5)	0.64 (0.13)	260.0 (51.2)	23.90 (11.30)	9.23 (4.36)	0.049 (0.023)	18.60 (8.79)
26	382.0 (95.2)	140.0 (34.8)	1.49 (0.37)	525.0 (131.0)	179.0 (36.8)	65.6 (13.5)	0.78 (0.16)	322.0 (66.1)	16.40 (12.90)	6.34 (4.98)	0.034 (0.027)	12.80 (10.10)
27	359.0 (41.6)	131.0 (15.2)	1.40 (0.16)	493.0 (57.2)	106.0 (48.8)	38.8 (17.8)	0.46 (0.21)	192.0 (87.8)	5.96 (10.20)	2.30 (3.94)	0.012 (0.021)	4.65 (7.98)
28	409.0 (36.6)	149.0 (13.4)	1.60 (0.14)	560.0 (50.1)	119.0 (36.9)	43.5 (13.5)	0.52 (0.16)	217.0 (67.4)	21.90 (92.00)	8.43 (35.50)	0.045 (0.190)	17.10 (72.00)
29	370.0 (74.6)	135.0 (27.3)	1.45 (0.29)	506.0 (102.0)	156.0 (29.9)	57.1 (10.9)	0.68 (0.13)	288.0 (55.5)	27.00 (88.20)	10.40 (34.00)	0.056 (0.182)	21.10 (69.10)
30	363.0 (125.0)	133.0 (45.7)	1.42 (0.49)	496.0 (171.0)	209.0 (50.2)	76.4 (18.4)	0.91 (0.22)	388.0 (93.7)	102.00 (202.00)	39.10 (78.00)	0.210 (0.418)	79.80 (159.00)
31	466.0 (174.0)	171.0 (63.7)	1.82 (0.68)	636.0 (237.0)	208.0 (74.1)	76.2 (27.1)	0.91 (0.32)	390.0 (139.0)	66.20 (35.40)	25.50 (13.70)	0.137 (0.073)	52.20 (27.90)
Avg	352.0	129.0	1.37	480.0	80.5	29.4	0.61	249.0	13.70	5.28	0.056	21.20
n	31	31	31	31	30	30	9	9	31	31	10	10
SD	61.3	22.4	0.24	83.3	69.8	25.5	0.25	109.0	22.40	8.64	0.064	24.30
Min	236.0	86.3	0.92	325.0	-11.7	-4.3	0.08	28.6	-0.93	-0.36	0.005	1.60
Max	466.0	171	1.82	636.0	209.0	76.4	0.91	390.0	102.00	39.10	0.210	79.80

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for November, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	484.0 (156.0)	177.0 (57.0)	1.89 (0.61)	660.0 (212.0)	280.0 (84.1)	102.0 (30.7)	1.21 (0.36)	520.0 (154.0)	49.10 (71.30)	18.90 (27.50)	0.101 (0.147)	38.60 (56.10)
2	645.0 (129.0)	236.0 (47.2)	2.52 (0.51)	879.0 (176.0)	455.0 (123.0)	167.0 (44.9)	1.95 (0.52)	832.0 (222.0)	115.00 (125.00)	44.40 (48.10)	0.235 (0.255)	89.80 (97.20)
3	672.0 (159.0)	246.0 (58.2)	2.63 (0.62)	916.0 (217.0)	723.0 (193.0)	264.0 (70.6)	3.06 (0.82)	1300.0 (346.0)	42.10 (31.30)	16.20 (12.10)	0.086 (0.064)	32.60 (24.20)
4	545.0 (125.0)	199.0 (45.6)	2.13 (0.49)	743.0 (170.0)	445.0 (124.0)	163.0 (45.5)	1.86 (0.53)	785.0 (223.0)	58.20 (68.30)	22.40 (26.30)	0.117 (0.138)	44.70 (52.60)
5												
6	537.0 (115.0)	196.0 (42.2)	2.10 (0.45)	733.0 (158.0)	453.0 (121.0)	166.0 (44.4)	1.84 (0.49)	768.0 (203.0)	36.20 (44.90)	14.00 (17.30)	0.072 (0.089)	27.40 (34.00)
7	464.0 (85.9)	170.0 (31.4)	1.82 (0.34)	635.0 (117.0)	347.0 (200.0)	127.0 (73.0)	1.40 (0.81)	582.0 (336.0)	11.60 (13.20)	4.49 (5.07)	0.023 (0.026)	8.74 (9.89)
8	469.0 (116.0)	172.0 (42.5)	1.84 (0.46)	641.0 (159.0)	304.0 (59.5)	111.0 (21.8)	1.21 (0.24)	502.0 (97.6)	16.90 (60.30)	6.52 (23.30)	0.033 (0.119)	12.60 (45.10)
9	590.0 (85.3)	216.0 (31.2)	2.31 (0.33)	808.0 (117.0)	508.0 (76.6)	186.0 (28.0)	2.03 (0.31)	835.0 (125.0)	30.90 (134.00)	11.90 (51.70)	0.061 (0.265)	23.10 (100.00)
10	542.0 (63.8)	198.0 (23.3)	2.12 (0.25)	742.0 (87.3)	713.0 (76.6)	261.0 (28.0)	2.84 (0.31)	1170.0 (125.0)	133.00 (444.00)	51.10 (171.00)	0.262 (0.878)	98.90 (331.00)
11	572.0 (75.5)	209.0 (27.6)	2.24 (0.30)	784.0 (103.0)	484.0 (282.0)	177.0 (103.0)	1.93 (1.12)	789.0 (459.0)	113.00 (339.00)	43.40 (131.00)	0.223 (0.670)	83.80 (252.00)
12	621.0 (111.0)	227.0 (40.5)	2.43 (0.43)	851.0 (152.0)	436.0 (119.0)	160.0 (43.4)	1.74 (0.47)	706.0 (191.0)	352.00 (398.00)	136.00 (153.00)	0.697 (0.786)	262.00 (295.00)
13	810.0 (140.0)	296.0 (51.2)	3.18 (0.55)	1110.0 (192.0)	678.0 (130.0)	248.0 (47.4)	2.70 (0.52)	1090.0 (209.0)	94.50 (53.50)	36.40 (20.60)	0.187 (0.106)	70.10 (39.60)
14	946.0 (217.0)	346.0 (79.3)	3.71 (0.85)	1300.0 (298.0)	498.0 (302.0)	182.0 (110.0)	1.99 (1.20)	800.0 (486.0)	61.90 (71.70)	23.90 (27.60)	0.122 (0.142)	45.80 (53.00)
15	609.0 (90.3)	223.0 (33.0)	2.39 (0.35)	837.0 (124.0)	558.0 (59.5)	204.0 (21.8)	2.23 (0.24)	891.0 (94.2)	71.60 (130.00)	27.60 (50.00)	0.142 (0.256)	52.80 (95.70)
16	647.0 (123.0)	237.0 (44.8)	2.54 (0.48)	888.0 (168.0)	730.0 (91.0)	267.0 (33.3)	2.91 (0.36)	1160.0 (144.0)	59.20 (53.50)	22.80 (20.60)	0.117 (0.106)	43.70 (39.50)
17	659.0 (87.2)	241.0 (31.9)	2.59 (0.34)	906.0 (120.0)	940.0 (69.5)	344.0 (25.4)	3.75 (0.28)	1490.0 (110.0)	48.30 (58.10)	18.60 (22.40)	0.096 (0.115)	35.50 (42.70)
18	649.0 (73.4)	237.0 (26.9)	2.54 (0.29)	892.0 (101.0)	630.0 (432.0)	231.0 (158.0)	2.51 (1.72)	993.0 (680.0)				
19												
20	270.0 (86.4)	98.8 (31.6)	1.06 (0.34)	371.0 (119.0)	627.0 (84.0)	229.0 (30.7)	2.50 (0.34)	976.0 (130.0)				
21	286.0 (47.7)	105.0 (17.5)	1.12 (0.19)	393.0 (65.6)	586.0 (159.0)	214.0 (58.3)	2.34 (0.64)	908.0 (248.0)	77.40 (91.30)	29.90 (35.20)	0.153 (0.181)	56.40 (66.50)
22	239.0 (74.3)	87.5 (27.2)	0.94 (0.29)	329.0 (102.0)	283.0 (108.0)	104.0 (39.3)	1.13 (0.43)	436.0 (166.0)	162.00 (175.00)	62.30 (67.50)	0.320 (0.346)	117.00 (127.00)
23	284.0 (165.0)	104.0 (60.2)	1.11 (0.65)	389.0 (226.0)	363.0 (101.0)	133.0 (36.8)	1.45 (0.40)	555.0 (153.0)	217.00 (161.00)	83.60 (62.30)	0.429 (0.319)	157.00 (117.00)
24	429.0 (125.0)	157.0 (45.8)	1.68 (0.49)	587.0 (171.0)	475.0 (115.0)	174.0 (41.9)	1.89 (0.46)	723.0 (175.0)	213.00 (313.00)	82.10 (121.00)	0.421 (0.620)	154.00 (226.00)
25	378.0 (99.3)	138.0 (36.3)	1.48 (0.39)	518.0 (136.0)	509.0 (61.1)	186.0 (22.3)	2.03 (0.24)	770.0 (91.5)	93.60 (95.20)	36.10 (36.70)	0.185 (0.188)	67.30 (68.40)
26	485.0 (187.0)	178.0 (68.6)	1.91 (0.74)	664.0 (256.0)	508.0 (50.8)	186.0 (18.6)	2.03 (0.20)	764.0 (76.2)	42.10 (48.00)	16.20 (18.50)	0.083 (0.095)	30.10 (34.30)
27	577.0 (198.0)	211.0 (72.3)	2.27 (0.78)	788.0 (270.0)	560.0 (90.7)	205.0 (33.2)	2.24 (0.36)	838.0 (135.0)	81.00 (87.40)	31.30 (33.70)	0.160 (0.173)	57.90 (62.40)
28	335.0 (230.0)	123.0 (84.2)	1.32 (0.90)	457.0 (314.0)	373.0 (239.0)	136.0 (87.3)	1.49 (0.95)	554.0 (355.0)	21.80 (34.50)	8.39 (13.30)	0.043 (0.068)	15.50 (24.50)
29	512.0 (187.0)	187.0 (68.4)	2.01 (0.74)	697.0 (255.0)	523.0 (64.0)	191.0 (23.4)	2.09 (0.26)	772.0 (93.6)	113.00 (127.00)	43.50 (49.10)	0.223 (0.252)	79.90 (90.10)
30												
Avg	528.0	193.0	2.07	723.0	518.0	190.0	2.09	833.0	92.50	35.70	0.184	68.20
n	27	27	27	27	27	27	27	27	25	25	25	25
SD	162.0	59.2	0.63	222.0	151.0	55.3	0.60	245.0	75.50	29.10	0.149	55.40
Min	239.0	87.5	0.94	329.0	280.0	102.0	1.13	436.0	11.60	4.49	0.023	8.74
Max	946.0	346	3.71	1300.0	940.0	344.0	3.75	1490.0	352.00	136.00	0.697	262.00

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for December, 2008.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
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25	477.0 (98.0)	174.0 (35.8)	1.88 (0.39)	643.0 (132.0)	725.0 (205.0)	265.0 (74.8)	2.89 (0.82)	999.0 (282.0)	61.20 (49.00)	23.60 (18.90)	0.121 (0.097)	41.70 (33.40)
26	476.0 (98.0)	174.0 (35.9)	1.88 (0.39)	641.0 (132.0)	974.0 (214.0)	356.0 (78.1)	3.89 (0.85)	1340.0 (295.0)	158.00 (147.00)	61.00 (56.60)	0.314 (0.291)	108.00 (100.00)
27	833.0 (254.0)	305.0 (93.0)	3.29 (1.00)	1120.0 (342.0)	1680.0 (358.0)	613.0 (131.0)	6.70 (1.43)	2310.0 (494.0)	201.00 (123.00)	77.60 (47.50)	0.400 (0.244)	137.00 (83.90)
28	514.0 (86.5)	188.0 (31.6)	2.03 (0.34)	692.0 (116.0)	1720.0 (235.0)	629.0 (85.8)	6.87 (0.94)	2370.0 (324.0)	53.60 (59.00)	20.70 (22.80)	0.107 (0.117)	36.50 (40.20)
29	613.0 (127.0)	224.0 (46.4)	2.42 (0.50)	824.0 (170.0)	1030.0 (223.0)	376.0 (81.4)	4.11 (0.89)	1410.0 (306.0)	79.50 (54.20)	30.60 (20.90)	0.158 (0.108)	54.00 (36.80)
30	517.0 (113.0)	189.0 (41.2)	2.04 (0.45)	695.0 (151.0)	820.0 (99.1)	300.0 (36.3)	3.28 (0.40)	1120.0 (136.0)	140.00 (149.00)	53.90 (57.30)	0.278 (0.295)	94.90 (101.00)
31	530.0 (37.5)	194.0 (13.7)	2.09 (0.15)	711.0 (50.3)	763.0 (155.0)	279.0 (56.8)	3.05 (0.62)	1040.0 (213.0)	31.90 (44.20)	12.30 (17.00)	0.063 (0.088)	21.60 (29.90)
Avg	566.0	207.0	2.23	761.0	1100.0	403.0	4.40	1520.0	104.00	40.00	0.206	70.60
n	7	7	7	7	7	7	7	7	7	7	7	7
SD	117.0	42.8	0.46	158.0	391.0	143.0	1.56	541.0	58.40	22.50	0.116	39.80
Min	476.0	174.0	1.88	641.0	725.0	265.0	2.89	999.0	31.90	12.30	0.063	21.60
Max	833.0	305	3.29	1120.0	1720.0	629.0	6.87	2370.0	201.00	77.60	0.400	137.00

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for January, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	509.0 (59.9)	186.0 (21.9)	2.01 (0.24)	682.0 (80.1)	505.0 (112.0)	185.0 (41.1)	2.02 (0.45)	689.0 (153.0)	266.00 (223.00)	103.00 (85.80)	0.528 (0.442)	180.00 (151.00)
2	606.0 (95.8)	222.0 (35.1)	2.39 (0.38)	811.0 (128.0)	652.0 (139.0)	239.0 (50.8)	2.61 (0.55)	889.0 (189.0)	54.40 (55.00)	21.00 (21.20)	0.108 (0.109)	36.70 (37.10)
3	519.0 (53.6)	190.0 (19.6)	2.05 (0.21)	694.0 (71.7)	553.0 (129.0)	202.0 (47.1)	2.21 (0.52)	757.0 (178.0)	69.20 (70.40)	26.70 (27.10)	0.138 (0.140)	46.80 (47.70)
4	537.0 (72.8)	196.0 (26.6)	2.12 (0.29)	719.0 (97.5)	858.0 (178.0)	314.0 (65.1)	3.43 (0.71)	1190.0 (247.0)	89.80 (109.00)	34.60 (42.00)	0.179 (0.217)	61.00 (74.10)
5	456.0 (53.9)	167.0 (19.7)	1.80 (0.21)	610.0 (72.1)	600.0 (129.0)	220.0 (47.1)	2.40 (0.52)	838.0 (180.0)	51.80 (38.50)	20.00 (14.90)	0.103 (0.077)	35.40 (26.30)
6												
7	728.0 (211.0)	266.0 (77.3)	2.88 (0.84)	975.0 (283.0)	748.0 (267.0)	274.0 (97.6)	2.99 (1.07)	1070.0 (381.0)				
8	768.0 (126.0)	281.0 (46.0)	3.04 (0.50)	1030.0 (168.0)	838.0 (182.0)	307.0 (66.4)	3.35 (0.73)	1210.0 (265.0)				
9	722.0 (75.8)	264.0 (27.7)	2.86 (0.30)	967.0 (102.0)	1020.0 (139.0)	372.0 (50.7)	4.07 (0.55)	1480.0 (204.0)				
10	646.0 (141.0)	236.0 (51.5)	2.56 (0.56)	866.0 (189.0)	1000.0 (176.0)	366.0 (64.3)	4.00 (0.70)	1460.0 (259.0)				
11	718.0 (128.0)	263.0 (46.9)	2.84 (0.51)	963.0 (172.0)	1120.0 (133.0)	410.0 (48.5)	4.48 (0.53)	1610.0 (190.0)				
12	687.0 (59.6)	251.0 (21.8)	2.72 (0.24)	920.0 (79.9)	1040.0 (113.0)	380.0 (41.5)	4.15 (0.45)	1470.0 (160.0)				
13	529.0 (202.0)	194.0 (73.8)	2.10 (0.80)	710.0 (271.0)	917.0 (266.0)	335.0 (97.2)	3.67 (1.06)	1290.0 (376.0)				
14	157.0 (80.8)	57.3 (29.5)	0.62 (0.32)	210.0 (108.0)	594.0 (91.3)	217.0 (33.4)	2.37 (0.37)	823.0 (125.0)				
15	220.0 (27.3)	80.4 (10.0)	0.87 (0.11)	295.0 (36.6)	531.0 (280.0)	194.0 (102.0)	2.12 (1.12)	727.0 (382.0)				
16	185.0 (35.0)	67.6 (12.8)	0.73 (0.14)	248.0 (47.0)	155.0 (158.0)	56.5 (57.6)	0.62 (0.63)	209.0 (214.0)				
17	186.0 (48.6)	68.0 (17.8)	0.74 (0.19)	253.0 (67.2)	547.0 (119.0)	200.0 (43.6)	2.19 (0.48)	736.0 (160.0)				
18	171.0 (29.2)	62.5 (10.7)	0.68 (0.12)	237.0 (39.8)	695.0 (75.1)	254.0 (27.5)	2.78 (0.30)	933.0 (101.0)				
19	197.0 (42.3)	72.2 (15.5)	0.78 (0.17)	281.0 (61.5)	489.0 (71.9)	179.0 (26.3)	1.96 (0.29)	657.0 (96.5)				
20	208.0 (30.9)	76.1 (11.3)	0.83 (0.12)	303.0 (45.4)	577.0 (77.0)	211.0 (28.2)	2.31 (0.31)	773.0 (103.0)				
21	298.0 (86.3)	109.0 (31.6)	1.18 (0.34)	447.0 (132.0)	531.0 (65.0)	194.0 (23.8)	2.13 (0.26)	711.0 (87.2)				
22	309.0 (60.0)	113.0 (22.0)	1.23 (0.24)	474.0 (92.2)	644.0 (103.0)	236.0 (37.6)	2.58 (0.41)	861.0 (138.0)				
23	119.0 (52.4)	43.6 (19.2)	0.47 (0.21)	187.0 (81.2)	963.0 (173.0)	352.0 (63.2)	3.86 (0.69)	1290.0 (231.0)				
24	111.0 (31.3)	40.8 (11.5)	0.44 (0.12)	178.0 (49.9)	852.0 (130.0)	312.0 (47.6)	3.41 (0.52)	1140.0 (174.0)				
25	120.0 (31.5)	44.0 (11.5)	0.48 (0.13)	192.0 (50.3)	1000.0 (83.7)	366.0 (30.6)	4.01 (0.34)	1340.0 (112.0)				
26	141.0 (48.5)	51.6 (17.8)	0.56 (0.19)	225.0 (77.4)	1110.0 (94.9)	408.0 (34.7)	4.47 (0.38)	1490.0 (127.0)				
27	125.0 (24.9)	45.6 (9.1)	0.50 (0.10)	199.0 (39.7)	839.0 (169.0)	307.0 (61.8)	3.36 (0.68)	1120.0 (226.0)				
28	135.0 (29.5)	49.5 (10.8)	0.54 (0.12)	215.0 (47.0)	800.0 (72.9)	293.0 (26.7)	3.21 (0.29)	1070.0 (97.6)				
29					946.0 (115.0)	346.0 (42.1)	3.79 (0.46)	1270.0 (154.0)				
30	160.0 (52.2)	58.5 (19.1)	0.64 (0.21)	254.0 (83.2)	1110.0 (155.0)	407.0 (56.6)	4.46 (0.62)	1490.0 (207.0)				
31	120.0 (24.7)	43.8 (9.0)	0.48 (0.10)	191.0 (39.4)								
Avg	358.0	131.0	1.42	494.0	767.0	281.0	3.07	1050.0	106.00	41.00	0.211	72.00
n	29	29	29	29	29	29	29	29	5	5	5	5
SD	233.0	85.1	0.92	301.0	234.0	85.5	0.94	331.0	81.00	31.20	0.161	54.70
Min	111.0	40.8	0.44	178.0	155.0	56.5	0.62	209.0	51.80	20.00	0.103	35.40
Max	768.0	281	3.04	1030.0	1120.0	410.0	4.48	1610.0	266.00	103.00	0.528	180.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for February, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	125.0 (47.3)	45.8 (17.3)	0.50 (0.19)	201.0 (75.6)	1470.0 (243.0)	539.0 (88.8)	5.91 (0.97)	1980.0 (327.0)				
2	128.0 (57.5)	46.8 (21.0)	0.51 (0.23)	205.0 (92.3)								
3												
4	102.0 (52.4)	37.4 (19.2)	0.41 (0.21)	165.0 (84.7)								
5	105.0 (53.1)	38.3 (19.4)	0.42 (0.21)	170.0 (86.0)								
6	84.5 (39.7)	30.9 (14.5)	0.34 (0.16)	138.0 (64.7)								
7	57.9 (54.0)	21.2 (19.7)	0.23 (0.22)	94.5 (88.1)	1590.0 (165.0)	580.0 (60.3)	6.36 (0.66)	2170.0 (226.0)				
8	102.0 (23.7)	37.2 (8.7)	0.41 (0.10)	166.0 (38.8)	1740.0 (244.0)	636.0 (89.4)	6.98 (0.98)	2380.0 (335.0)				
9	102.0 (36.5)	37.3 (13.4)	0.41 (0.15)	167.0 (59.8)	1030.0 (313.0)	375.0 (115.0)	4.11 (1.26)	1400.0 (429.0)				
10	99.2 (52.8)	36.3 (19.3)	0.40 (0.21)	163.0 (86.7)	776.0 (126.0)	284.0 (46.1)	3.11 (0.51)	1060.0 (173.0)				
11	55.0 (30.1)	20.1 (11.0)	0.22 (0.12)	90.5 (49.5)	793.0 (135.0)	290.0 (49.3)	3.18 (0.54)	1090.0 (185.0)				
12												
13					695.0 (81.8)	254.0 (29.9)	2.79 (0.33)	957.0 (113.0)	50.20 (62.70)	19.40 (24.20)	0.100 (0.126)	37.70 (47.10)
14	92.4 (44.5)	33.8 (16.3)	0.37 (0.18)	152.0 (73.5)	710.0 (91.6)	260.0 (33.5)	2.85 (0.37)	979.0 (126.0)	22.90 (35.10)	8.81 (13.50)	0.046 (0.070)	17.10 (26.30)
15	88.2 (21.9)	32.3 (8.0)	0.35 (0.09)	144.0 (35.7)	779.0 (113.0)	285.0 (41.4)	3.12 (0.46)	1070.0 (156.0)	55.70 (76.70)	21.50 (29.60)	0.112 (0.154)	41.70 (57.40)
16	95.0 (24.5)	34.7 (9.0)	0.38 (0.10)	154.0 (39.8)	630.0 (127.0)	231.0 (46.4)	2.53 (0.51)	867.0 (175.0)	47.80 (65.50)	18.40 (25.30)	0.096 (0.131)	35.50 (48.60)
17	104.0 (42.4)	38.1 (15.5)	0.42 (0.17)	167.0 (68.0)	425.0 (54.9)	155.0 (20.1)	1.70 (0.22)	584.0 (75.5)	151.00 (84.90)	58.40 (32.70)	0.303 (0.170)	112.00 (62.80)
18	134.0 (49.1)	49.1 (17.9)	0.54 (0.20)	213.0 (78.0)	600.0 (99.9)	220.0 (36.5)	2.41 (0.40)	825.0 (137.0)	93.00 (80.60)	35.80 (31.10)	0.186 (0.162)	68.60 (59.50)
19	136.0 (51.2)	49.7 (18.7)	0.54 (0.21)	214.0 (80.2)	570.0 (81.3)	209.0 (29.7)	2.29 (0.33)	783.0 (112.0)	35.40 (41.20)	13.70 (15.90)	0.071 (0.083)	26.00 (30.20)
20	195.0 (41.1)	71.4 (15.0)	0.78 (0.17)	305.0 (64.5)	754.0 (62.2)	276.0 (22.8)	3.03 (0.25)	1030.0 (85.3)	65.10 (90.50)	25.10 (34.90)	0.130 (0.181)	47.50 (66.00)
21	195.0 (32.6)	71.5 (11.9)	0.78 (0.13)	304.0 (50.7)	812.0 (123.0)	297.0 (45.1)	3.26 (0.50)	1110.0 (169.0)	47.70 (36.30)	18.40 (14.00)	0.096 (0.073)	34.70 (26.50)
22									23.50 (18.40)	9.07 (7.08)	0.047 (0.037)	17.10 (13.30)
23	287.0 (61.1)	105.0 (22.3)	1.15 (0.25)	442.0 (94.2)	715.0 (87.3)	262.0 (31.9)	2.87 (0.35)	982.0 (120.0)	30.70 (45.20)	11.80 (17.40)	0.062 (0.091)	22.30 (32.80)
24	270.0 (47.4)	98.8 (17.3)	1.08 (0.19)	414.0 (72.8)	684.0 (89.0)	250.0 (32.6)	2.74 (0.36)	939.0 (122.0)	219.00 (166.00)	84.50 (64.10)	0.440 (0.333)	159.00 (120.00)
25												
26	256.0 (52.8)	93.6 (19.3)	1.03 (0.21)	388.0 (79.8)	940.0 (127.0)	344.0 (46.6)	3.78 (0.51)	1290.0 (175.0)	153.00 (128.00)	59.10 (49.50)	0.308 (0.258)	111.00 (92.60)
27	263.0 (45.2)	96.3 (16.5)	1.06 (0.18)	397.0 (68.1)	871.0 (182.0)	318.0 (66.5)	3.50 (0.73)	1200.0 (250.0)	44.50 (55.80)	17.20 (21.50)	0.089 (0.112)	32.00 (40.10)
28	310.0 (53.6)	113.0 (19.6)	1.24 (0.22)	465.0 (80.6)	756.0 (137.0)	276.0 (50.1)	3.03 (0.55)	1040.0 (188.0)	59.70 (57.40)	23.00 (22.10)	0.120 (0.115)	42.90 (41.20)
Avg	147.0	53.9	0.59	231.0	867.0	317.0	3.48	1190.0	73.30	28.30	0.147	53.60
n	23	23	23	23	20	20	20	20	15	15	15	15
SD	76.3	27.9	0.31	112.0	335.0	123.0	1.34	454.0	55.20	21.30	0.111	40.00
Min	55.0	20.1	0.22	90.5	425.0	155.0	1.70	584.0	22.90	8.81	0.046	17.10
Max	310.0	113	1.24	465.0	1740.0	636.0	6.98	2380.0	219.00	84.50	0.440	159.00

Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for March, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	372.0 (42.3)	136.0 (15.5)	1.49 (0.17)	553.0 (62.5)	801.0 (86.0)	293.0 (31.5)	3.22 (0.35)	1110.0 (119.0)	61.40 (50.70)	23.70 (19.50)	0.123 (0.102)	44.00 (36.30)
2	381.0 (57.8)	139.0 (21.1)	1.53 (0.23)	562.0 (86.0)	759.0 (88.1)	278.0 (32.2)	3.05 (0.35)	1050.0 (122.0)	79.40 (65.10)	30.60 (25.10)	0.159 (0.131)	56.70 (46.50)
3	351.0 (79.1)	129.0 (28.9)	1.41 (0.32)	515.0 (116.0)	689.0 (89.3)	252.0 (32.7)	2.77 (0.36)	957.0 (124.0)	115.00 (107.00)	44.30 (41.10)	0.231 (0.214)	81.90 (76.00)
4	338.0 (68.0)	124.0 (24.9)	1.36 (0.27)	491.0 (99.6)	742.0 (95.5)	271.0 (34.9)	2.98 (0.38)	1030.0 (133.0)	250.00 (227.00)	96.30 (87.60)	0.501 (0.456)	178.00 (161.00)
5	424.0 (87.2)	155.0 (31.9)	1.70 (0.35)	610.0 (125.0)	835.0 (177.0)	305.0 (64.9)	3.35 (0.71)	1170.0 (248.0)	182.00 (198.00)	70.30 (76.50)	0.366 (0.398)	129.00 (141.00)
6	525.0 (131.0)	192.0 (47.9)	2.11 (0.53)	751.0 (188.0)	1160.0 (170.0)	424.0 (62.3)	4.66 (0.68)	1620.0 (239.0)	80.50 (48.00)	31.10 (18.50)	0.162 (0.096)	57.00 (34.00)
7	454.0 (116.0)	166.0 (42.3)	1.82 (0.47)	645.0 (164.0)	1050.0 (205.0)	384.0 (74.9)	4.21 (0.82)	1470.0 (288.0)	64.90 (67.80)	25.00 (26.20)	0.130 (0.136)	45.80 (47.90)
8	459.0 (88.0)	168.0 (32.2)	1.84 (0.35)	648.0 (124.0)	995.0 (234.0)	364.0 (85.6)	4.00 (0.94)	1400.0 (329.0)	42.60 (38.90)	16.40 (15.00)	0.086 (0.078)	30.00 (27.40)
9	441.0 (60.7)	161.0 (22.2)	1.77 (0.24)	620.0 (85.7)	806.0 (125.0)	295.0 (45.8)	3.24 (0.50)	1130.0 (176.0)	43.70 (57.10)	16.90 (22.00)	0.088 (0.115)	30.70 (40.10)
10	461.0 (90.7)	169.0 (33.2)	1.85 (0.36)	643.0 (126.0)	1020.0 (291.0)	374.0 (106.0)	4.11 (1.17)	1440.0 (410.0)	63.50 (72.80)	24.50 (28.10)	0.128 (0.146)	44.50 (51.00)
11	457.0 (60.4)	167.0 (22.1)	1.84 (0.24)	635.0 (83.2)	650.0 (104.0)	238.0 (38.0)	2.61 (0.42)	915.0 (146.0)	34.60 (30.00)	13.30 (11.60)	0.069 (0.060)	24.20 (21.00)
12	438.0 (158.0)	160.0 (57.7)	1.76 (0.63)	605.0 (219.0)	597.0 (98.2)	218.0 (35.9)	2.40 (0.39)	841.0 (138.0)	42.60 (49.40)	16.40 (19.10)	0.086 (0.099)	29.70 (34.40)
13	355.0 (71.9)	130.0 (26.3)	1.42 (0.29)	486.0 (97.9)	626.0 (116.0)	229.0 (42.5)	2.52 (0.47)	884.0 (164.0)	83.00 (85.50)	32.00 (33.00)	0.167 (0.172)	57.70 (59.50)
14	461.0 (53.4)	169.0 (19.5)	1.85 (0.21)	631.0 (73.1)	813.0 (122.0)	297.0 (44.5)	3.27 (0.49)	1150.0 (172.0)	96.20 (91.50)	37.10 (35.30)	0.193 (0.184)	66.80 (63.60)
15	518.0 (125.0)	190.0 (45.9)	2.08 (0.50)	710.0 (172.0)	771.0 (125.0)	282.0 (45.9)	3.10 (0.50)	1090.0 (177.0)	73.60 (64.70)	28.40 (24.90)	0.148 (0.130)	51.20 (45.00)
16	545.0 (100.0)	199.0 (36.8)	2.19 (0.40)	747.0 (138.0)	827.0 (94.4)	303.0 (34.5)	3.32 (0.38)	1170.0 (133.0)	109.00 (136.00)	42.20 (52.60)	0.220 (0.274)	76.10 (94.90)
17	530.0 (75.4)	194.0 (27.6)	2.13 (0.30)	728.0 (103.0)	750.0 (88.6)	274.0 (32.4)	3.01 (0.36)	1060.0 (125.0)	130.00 (70.80)	50.20 (27.30)	0.262 (0.142)	90.60 (49.30)
18	454.0 (55.0)	166.0 (20.1)	1.83 (0.22)	624.0 (75.5)								
19												
20									15.90 (16.20)	6.13 (6.23)	0.032 (0.033)	11.10 (11.30)
21	355.0 (65.5)	130.0 (24.0)	1.43 (0.26)	488.0 (90.3)	973.0 (97.3)	356.0 (35.6)	3.91 (0.39)	1380.0 (137.0)	69.60 (92.00)	26.80 (35.50)	0.140 (0.185)	48.50 (64.10)
22	450.0 (110.0)	165.0 (40.1)	1.81 (0.44)	617.0 (150.0)	1190.0 (82.9)	437.0 (30.3)	4.80 (0.33)	1690.0 (117.0)	79.20 (108.00)	30.50 (41.50)	0.159 (0.216)	55.20 (75.00)
23	379.0 (59.1)	139.0 (21.6)	1.53 (0.24)	519.0 (81.2)	1040.0 (115.0)	379.0 (41.9)	4.17 (0.46)	1470.0 (162.0)	25.30 (20.80)	9.76 (8.03)	0.051 (0.042)	17.60 (14.50)
24	348.0 (60.7)	127.0 (22.2)	1.40 (0.24)	474.0 (82.5)	905.0 (118.0)	331.0 (43.0)	3.64 (0.47)	1280.0 (166.0)				
25	349.0 (52.5)	127.0 (19.2)	1.40 (0.21)	474.0 (71.6)	884.0 (84.9)	323.0 (31.1)	3.56 (0.34)	1250.0 (120.0)	75.30 (79.00)	29.00 (30.50)	0.152 (0.159)	52.20 (54.80)
26	274.0 (36.9)	100.0 (13.5)	1.10 (0.15)	371.0 (50.0)	949.0 (63.5)	347.0 (23.2)	3.82 (0.26)	1350.0 (90.1)	40.20 (67.30)	15.50 (26.00)	0.081 (0.136)	27.90 (46.60)
27												
28												
29	377.0 (75.5)	138.0 (27.6)	1.52 (0.31)	508.0 (102.0)	1010.0 (82.4)	369.0 (30.1)	4.06 (0.33)	1430.0 (117.0)	33.70 (25.20)	13.00 (9.70)	0.068 (0.051)	23.30 (17.40)
30	410.0 (53.5)	150.0 (19.6)	1.65 (0.22)	553.0 (72.2)	1000.0 (92.2)	366.0 (33.7)	4.02 (0.37)	1420.0 (131.0)	21.50 (25.20)	8.30 (9.72)	0.043 (0.051)	14.90 (17.40)
31	444.0 (53.7)	162.0 (19.6)	1.79 (0.22)	600.0 (72.4)	1020.0 (90.9)	372.0 (33.2)	4.09 (0.37)	1450.0 (129.0)	36.70 (32.70)	14.20 (12.60)	0.074 (0.066)	25.40 (22.70)
Avg	420.0	154.0	1.69	585.0	879.0	322.0	3.53	1240.0	75.00	28.90	0.151	52.70
n	27	27	27	27	26	26	26	26	26	26	26	26
SD	66.2	24.2	0.27	91.6	158.0	57.6	0.63	225.0	50.70	19.50	0.102	36.00
Min	274.0	100.0	1.10	371.0	597.0	218.0	2.40	841.0	15.90	6.13	0.032	11.10
Max	545.0	199	2.19	751.0	1190.0	437.0	4.80	1690.0	250.00	96.30	0.501	178.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for April, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	449.0 (80.9)	164.0 (29.6)	1.81 (0.33)	606.0 (109.0)	904.0 (105.0)	331.0 (38.5)	3.64 (0.42)	1290.0 (150.0)	48.60 (26.80)	18.80 (10.30)	0.098 (0.054)	33.70 (18.60)
2									50.50 (56.80)	19.50 (21.90)	0.102 (0.115)	35.00 (39.40)
3	437.0 (74.5)	160.0 (27.3)	1.77 (0.30)	590.0 (101.0)	752.0 (102.0)	275.0 (37.1)	3.03 (0.41)	1070.0 (145.0)	12.00 (17.50)	4.64 (6.75)	0.024 (0.035)	8.34 (12.10)
4	416.0 (63.0)	152.0 (23.1)	1.68 (0.26)	563.0 (85.1)	723.0 (85.0)	264.0 (31.1)	2.91 (0.34)	1030.0 (121.0)	13.30 (15.40)	5.15 (5.93)	0.027 (0.031)	9.27 (10.70)
5	461.0 (108.0)	169.0 (39.4)	1.86 (0.44)	626.0 (146.0)	843.0 (151.0)	308.0 (55.2)	3.39 (0.61)	1200.0 (215.0)	7.22 (7.83)	2.78 (3.02)	0.015 (0.016)	5.02 (5.45)
6	419.0 (62.5)	153.0 (22.9)	1.69 (0.25)	570.0 (84.9)	838.0 (102.0)	307.0 (37.4)	3.37 (0.41)	1200.0 (146.0)	6.54 (12.20)	2.52 (4.69)	0.013 (0.025)	4.56 (8.48)
7	396.0 (62.1)	145.0 (22.7)	1.60 (0.25)	540.0 (84.5)	755.0 (127.0)	276.0 (46.5)	3.04 (0.51)	1080.0 (182.0)	19.20 (22.30)	7.42 (8.59)	0.039 (0.045)	13.40 (15.50)
8	404.0 (103.0)	148.0 (37.8)	1.64 (0.42)	552.0 (141.0)	604.0 (112.0)	221.0 (40.9)	2.43 (0.45)	862.0 (160.0)	31.20 (27.70)	12.00 (10.70)	0.063 (0.056)	21.80 (19.30)
9					519.0 (121.0)	190.0 (44.3)	2.09 (0.49)	741.0 (173.0)	31.90 (38.00)	12.30 (14.60)	0.064 (0.077)	22.30 (26.60)
10	239.0 (59.1)	87.4 (21.6)	0.97 (0.24)	328.0 (81.2)	443.0 (78.1)	162.0 (28.6)	1.78 (0.31)	632.0 (112.0)	14.90 (22.60)	5.75 (8.71)	0.030 (0.046)	10.40 (15.80)
11	241.0 (42.7)	88.3 (15.6)	0.98 (0.17)	332.0 (58.7)	474.0 (98.8)	173.0 (36.1)	1.91 (0.40)	677.0 (141.0)	17.90 (18.10)	6.92 (6.98)	0.036 (0.037)	12.60 (12.70)
12	332.0 (40.2)	121.0 (14.7)	1.34 (0.16)	456.0 (55.3)	638.0 (69.2)	233.0 (25.3)	2.57 (0.28)	910.0 (98.6)	29.10 (26.20)	11.20 (10.10)	0.059 (0.053)	20.40 (18.40)
13	301.0 (47.7)	110.0 (17.5)	1.22 (0.19)	414.0 (65.6)	587.0 (62.2)	215.0 (22.7)	2.36 (0.25)	836.0 (88.7)	20.90 (23.20)	8.04 (8.93)	0.042 (0.047)	14.60 (16.20)
14	351.0 (62.7)	128.0 (22.9)	1.42 (0.25)	483.0 (86.2)	533.0 (99.7)	195.0 (36.5)	2.15 (0.40)	760.0 (142.0)	9.52 (19.90)	3.67 (7.69)	0.019 (0.040)	6.66 (13.90)
15	368.0 (81.0)	134.0 (29.6)	1.49 (0.33)	506.0 (111.0)	546.0 (97.7)	200.0 (35.7)	2.20 (0.39)	777.0 (139.0)	30.10 (51.80)	11.60 (20.00)	0.061 (0.105)	21.10 (36.20)
16	369.0 (90.4)	135.0 (33.1)	1.50 (0.37)	508.0 (124.0)	704.0 (126.0)	258.0 (46.1)	2.84 (0.51)	1000.0 (179.0)	43.40 (59.50)	16.70 (22.90)	0.088 (0.120)	30.40 (41.60)
17									62.00 (79.20)	23.90 (30.60)	0.125 (0.160)	43.40 (55.40)
18	453.0 (95.7)	166.0 (35.0)	1.83 (0.39)	624.0 (132.0)	671.0 (90.4)	245.0 (33.1)	2.70 (0.36)	953.0 (128.0)	67.80 (73.20)	26.10 (28.20)	0.137 (0.148)	47.40 (51.20)
19	492.0 (88.9)	180.0 (32.5)	1.99 (0.36)	679.0 (123.0)	913.0 (148.0)	334.0 (54.3)	3.68 (0.60)	1300.0 (211.0)	22.90 (35.30)	8.85 (13.60)	0.046 (0.071)	16.10 (24.70)
20	496.0 (68.4)	182.0 (25.0)	2.01 (0.28)	686.0 (94.5)	804.0 (128.0)	294.0 (46.9)	3.24 (0.52)	1140.0 (182.0)	22.50 (23.30)	8.67 (8.98)	0.046 (0.047)	15.80 (16.30)
21	501.0 (78.0)	183.0 (28.5)	2.03 (0.32)	695.0 (108.0)	749.0 (81.2)	274.0 (29.7)	3.02 (0.33)	1060.0 (115.0)	28.10 (22.00)	10.80 (8.48)	0.057 (0.045)	19.70 (15.40)
22	454.0 (67.4)	166.0 (24.7)	1.84 (0.27)	630.0 (93.5)	781.0 (85.8)	286.0 (31.4)	3.15 (0.35)	1110.0 (122.0)	20.70 (26.00)	7.99 (10.00)	0.042 (0.053)	14.50 (18.30)
23	439.0 (71.3)	161.0 (26.1)	1.78 (0.29)	611.0 (99.2)	751.0 (114.0)	275.0 (41.8)	3.03 (0.46)	1070.0 (162.0)	58.90 (69.20)	22.70 (26.70)	0.119 (0.140)	41.40 (48.70)
24	418.0 (78.7)	153.0 (28.8)	1.70 (0.32)	583.0 (110.0)	733.0 (193.0)	268.0 (70.6)	2.95 (0.78)	1040.0 (274.0)	69.60 (56.80)	26.90 (21.90)	0.141 (0.115)	49.00 (40.00)
25	487.0 (126.0)	178.0 (46.2)	1.98 (0.51)	676.0 (175.0)	882.0 (229.0)	323.0 (83.8)	3.56 (0.92)	1260.0 (326.0)	44.40 (18.40)	17.10 (7.08)	0.090 (0.037)	31.20 (12.90)
26	499.0 (112.0)	183.0 (41.0)	2.03 (0.46)	688.0 (155.0)	859.0 (209.0)	314.0 (76.3)	3.46 (0.84)	1220.0 (298.0)	49.90 (27.80)	19.20 (10.70)	0.101 (0.056)	35.00 (19.50)
27	404.0 (55.2)	148.0 (20.2)	1.64 (0.22)	553.0 (74.6)	721.0 (80.7)	264.0 (29.5)	2.91 (0.33)	1030.0 (115.0)	37.50 (23.40)	14.40 (9.01)	0.076 (0.047)	26.20 (16.30)
28	435.0 (86.8)	159.0 (31.7)	1.77 (0.35)	591.0 (119.0)	663.0 (92.9)	243.0 (34.0)	2.68 (0.38)	949.0 (133.0)	10.20 (12.30)	3.95 (4.74)	0.021 (0.025)	7.13 (8.56)
29	374.0 (93.8)	137.0 (34.3)	1.52 (0.38)	504.0 (126.0)	642.0 (131.0)	235.0 (47.8)	2.59 (0.53)	920.0 (188.0)	9.67 (11.00)	3.73 (4.24)	0.020 (0.022)	6.71 (7.64)
30	534.0 (106.0)	195.0 (38.9)	2.17 (0.43)	713.0 (141.0)	1020.0 (201.0)	373.0 (73.6)	4.12 (0.81)	1470.0 (290.0)	25.80 (24.80)	9.97 (9.55)	0.052 (0.050)	17.90 (17.10)
Avg	414.0	151.0	1.68	567.0	716.0	262.0	2.88	1020.0	30.60	11.80	0.062	21.40
n	27	27	27	27	28	28	28	28	30	30	30	30
SD	73.4	26.9	0.30	101.0	139.0	51.0	0.56	199.0	18.40	7.09	0.037	12.90
Min	239.0	87.4	0.97	328.0	443.0	162.0	1.78	632.0	6.54	2.52	0.013	4.56
Max	534.0	195	2.17	713.0	1020.0	373.0	4.12	1470.0	69.60	26.90	0.141	49.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for May, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	523.0 (168.0)	191.0 (61.3)	2.13 (0.68)	693.0 (223.0)	1010.0 (271.0)	370.0 (99.0)	4.08 (1.09)	1460.0 (389.0)	14.60 (19.00)	5.64 (7.35)	0.030 (0.039)	10.10 (13.10)
2	327.0 (94.0)	119.0 (34.4)	1.33 (0.38)	433.0 (124.0)	579.0 (87.1)	212.0 (31.9)	2.34 (0.35)	834.0 (126.0)	26.40 (24.80)	10.20 (9.55)	0.054 (0.050)	18.30 (17.10)
3	336.0 (72.1)	123.0 (26.4)	1.37 (0.29)	450.0 (96.7)	688.0 (114.0)	252.0 (41.7)	2.78 (0.46)	992.0 (164.0)	20.20 (25.20)	7.80 (9.72)	0.041 (0.051)	14.00 (17.50)
4	294.0 (61.9)	107.0 (22.6)	1.20 (0.25)	397.0 (83.8)	588.0 (91.3)	215.0 (33.4)	2.37 (0.37)	847.0 (132.0)	7.75 (11.90)	2.99 (4.58)	0.016 (0.024)	5.40 (8.27)
5	269.0 (73.8)	98.5 (27.0)	1.10 (0.30)	368.0 (101.0)	481.0 (120.0)	176.0 (43.7)	1.94 (0.48)	693.0 (172.0)	16.10 (23.10)	6.20 (8.91)	0.033 (0.047)	11.30 (16.20)
6	281.0 (73.4)	103.0 (26.8)	1.15 (0.30)	388.0 (101.0)	541.0 (113.0)	198.0 (41.2)	2.18 (0.45)	778.0 (162.0)	22.20 (21.80)	8.57 (8.42)	0.045 (0.044)	15.70 (15.40)
7	245.0 (89.8)	89.5 (32.8)	1.00 (0.37)	341.0 (125.0)	725.0 (227.0)	265.0 (83.1)	2.93 (0.92)	1040.0 (327.0)	48.40 (24.40)	18.70 (9.41)	0.098 (0.050)	34.20 (17.30)
8	307.0 (51.2)	112.0 (18.7)	1.25 (0.21)	433.0 (72.9)	884.0 (130.0)	323.0 (47.7)	3.57 (0.53)	1270.0 (187.0)	28.50 (25.70)	11.00 (9.91)	0.058 (0.052)	20.30 (18.30)
9	267.0 (60.8)	97.6 (22.2)	1.09 (0.25)	377.0 (86.1)	704.0 (181.0)	257.0 (66.2)	2.84 (0.73)	1010.0 (260.0)	24.90 (26.50)	9.60 (10.20)	0.051 (0.054)	17.70 (18.90)
10	272.0 (45.6)	99.6 (16.7)	1.11 (0.19)	384.0 (64.0)	667.0 (112.0)	244.0 (41.0)	2.70 (0.45)	959.0 (161.0)	13.30 (12.10)	5.11 (4.66)	0.027 (0.025)	9.43 (8.60)
11	245.0 (47.5)	89.7 (17.4)	1.00 (0.19)	345.0 (67.0)	578.0 (68.9)	211.0 (25.2)	2.33 (0.28)	830.0 (99.0)	2.60 (6.81)	1.00 (2.63)	0.005 (0.014)	1.85 (4.84)
12	215.0 (39.7)	78.6 (14.5)	0.88 (0.16)	301.0 (55.5)	462.0 (49.7)	169.0 (18.2)	1.87 (0.20)	663.0 (71.4)	6.58 (10.30)	2.54 (3.97)	0.013 (0.021)	4.67 (7.29)
13	240.0 (55.5)	87.9 (20.3)	0.98 (0.23)	336.0 (77.3)	609.0 (151.0)	223.0 (55.1)	2.46 (0.61)	875.0 (216.0)	12.50 (13.80)	4.80 (5.32)	0.025 (0.028)	8.82 (9.77)
14	371.0 (94.1)	136.0 (34.4)	1.52 (0.38)	517.0 (131.0)	852.0 (157.0)	312.0 (57.6)	3.45 (0.64)	1220.0 (226.0)	14.10 (13.40)	5.43 (5.17)	0.029 (0.027)	9.94 (9.47)
15	326.0 (58.1)	119.0 (21.3)	1.33 (0.24)	452.0 (80.6)	818.0 (182.0)	299.0 (66.5)	3.31 (0.74)	1170.0 (261.0)	14.70 (17.80)	5.66 (6.87)	0.030 (0.036)	10.40 (12.60)
16	372.0 (105.0)	136.0 (38.3)	1.52 (0.43)	517.0 (145.0)	838.0 (188.0)	307.0 (68.8)	3.39 (0.76)	1200.0 (270.0)	10.90 (12.70)	4.22 (4.91)	0.022 (0.026)	7.73 (8.98)
17	298.0 (42.9)	109.0 (15.7)	1.22 (0.18)	417.0 (59.6)	689.0 (49.7)	252.0 (18.2)	2.79 (0.20)	989.0 (71.3)	3.96 (6.98)	1.53 (2.69)	0.008 (0.014)	2.80 (4.95)
18	284.0 (59.4)	104.0 (21.7)	1.16 (0.24)	399.0 (83.2)	628.0 (106.0)	230.0 (38.7)	2.54 (0.43)	902.0 (152.0)	25.50 (20.20)	9.82 (7.80)	0.052 (0.041)	18.10 (14.40)
19	196.0 (122.0)	71.7 (44.6)	0.80 (0.50)	277.0 (172.0)	356.0 (240.0)	130.0 (87.9)	1.44 (0.97)	512.0 (345.0)	18.10 (13.30)	6.97 (5.14)	0.037 (0.027)	12.90 (9.48)
20	155.0 (132.0)	56.7 (48.3)	0.63 (0.54)	220.0 (187.0)	261.0 (236.0)	95.6 (86.5)	1.06 (0.96)	376.0 (340.0)	7.29 (10.30)	2.81 (3.96)	0.015 (0.021)	5.21 (7.34)
21	258.0 (66.4)	94.2 (24.3)	1.05 (0.27)	368.0 (94.7)	464.0 (139.0)	170.0 (50.7)	1.88 (0.56)	669.0 (200.0)	13.60 (9.00)	5.26 (3.47)	0.028 (0.018)	9.77 (6.44)
22	370.0 (84.1)	135.0 (30.8)	1.52 (0.34)	531.0 (121.0)	613.0 (95.5)	224.0 (34.9)	2.48 (0.39)	884.0 (138.0)	4.67 (6.15)	1.80 (2.37)	0.009 (0.013)	3.35 (4.42)
23	342.0 (104.0)	125.0 (38.0)	1.40 (0.43)	492.0 (150.0)	557.0 (114.0)	204.0 (41.9)	2.26 (0.46)	804.0 (165.0)	13.30 (25.10)	5.12 (9.68)	0.027 (0.051)	9.57 (18.10)
24	393.0 (110.0)	144.0 (40.2)	1.61 (0.45)	565.0 (158.0)	737.0 (156.0)	270.0 (57.0)	2.98 (0.63)	1070.0 (226.0)	7.20 (21.20)	2.78 (8.17)	0.015 (0.043)	5.19 (15.30)
25	319.0 (76.2)	117.0 (27.9)	1.31 (0.31)	459.0 (110.0)	616.0 (94.7)	225.0 (34.6)	2.49 (0.38)	892.0 (137.0)	2.89 (4.22)	1.12 (1.63)	0.006 (0.009)	2.09 (3.05)
26	418.0 (137.0)	153.0 (50.2)	1.71 (0.56)	602.0 (197.0)	643.0 (135.0)	235.0 (49.3)	2.60 (0.55)	933.0 (196.0)	2.50 (3.64)	0.96 (1.40)	0.005 (0.007)	1.80 (2.63)
27	588.0 (112.0)	215.0 (40.9)	2.41 (0.46)	847.0 (161.0)	938.0 (129.0)	343.0 (47.3)	3.80 (0.52)	1360.0 (188.0)	10.10 (9.20)	3.88 (3.55)	0.021 (0.019)	7.27 (6.66)
28	404.0 (103.0)	148.0 (37.7)	1.66 (0.42)	582.0 (148.0)	750.0 (137.0)	274.0 (50.2)	3.04 (0.56)	1090.0 (200.0)	6.20 (6.69)	2.39 (2.58)	0.013 (0.014)	4.49 (4.84)
29	408.0 (104.0)	149.0 (38.0)	1.67 (0.43)	587.0 (150.0)	847.0 (255.0)	310.0 (93.3)	3.43 (1.03)	1240.0 (373.0)	6.75 (8.24)	2.60 (3.18)	0.014 (0.017)	4.90 (5.97)
30	351.0 (75.3)	128.0 (27.5)	1.44 (0.31)	506.0 (109.0)	732.0 (114.0)	268.0 (41.7)	2.97 (0.46)	1070.0 (167.0)	12.60 (11.50)	4.87 (4.44)	0.026 (0.024)	9.18 (8.36)
31	314.0 (81.0)	115.0 (29.6)	1.29 (0.33)	454.0 (117.0)	730.0 (168.0)	267.0 (61.5)	2.96 (0.68)	1070.0 (246.0)	7.64 (11.10)	2.95 (4.28)	0.016 (0.023)	5.55 (8.07)
Avg	322.0	118.0	1.32	453.0	664.0	243.0	2.69	958.0	13.70	5.30	0.028	9.74
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	87.8	32.1	0.36	125.0	163.0	59.6	0.66	236.0	9.62	3.71	0.020	6.77
Min	155.0	56.7	0.63	220.0	261.0	95.6	1.06	376.0	2.50	0.96	0.005	1.80
Max	588.0	215	2.41	847.0	1010.0	370.0	4.08	1460.0	48.40	18.70	0.098	34.20

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for June, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	393.0 (114.0)	144.0 (41.8)	1.61 (0.47)	568.0 (165.0)	715.0 (130.0)	261.0 (47.7)	2.90 (0.53)	1050.0 (191.0)	18.70 (27.00)	7.22 (10.40)	0.038 (0.055)	13.60 (19.60)
2	389.0 (74.7)	142.0 (27.3)	1.60 (0.31)	563.0 (108.0)	869.0 (130.0)	318.0 (47.5)	3.52 (0.53)	1270.0 (190.0)	2.25 (3.73)	0.87 (1.44)	0.005 (0.008)	1.64 (2.71)
3	294.0 (44.0)	108.0 (16.1)	1.21 (0.18)	427.0 (63.6)	626.0 (130.0)	229.0 (47.4)	2.54 (0.53)	916.0 (190.0)	7.41 (8.28)	2.86 (3.19)	0.015 (0.017)	5.39 (6.03)
4	224.0 (84.3)	81.9 (30.9)	0.92 (0.35)	325.0 (122.0)	495.0 (91.6)	181.0 (33.5)	2.01 (0.37)	725.0 (134.0)	0.93 (5.16)	0.36 (1.99)	0.002 (0.011)	0.67 (3.76)
5	225.0 (38.0)	82.5 (13.9)	0.93 (0.16)	328.0 (55.2)	409.0 (56.4)	149.0 (20.6)	1.66 (0.23)	598.0 (82.5)	4.93 (10.00)	1.90 (3.87)	0.010 (0.021)	3.60 (7.31)
6	234.0 (43.4)	85.7 (15.9)	0.96 (0.18)	340.0 (63.1)	424.0 (68.4)	155.0 (25.0)	1.72 (0.28)	620.0 (100.0)	8.34 (9.22)	3.22 (3.55)	0.017 (0.019)	6.08 (6.72)
7	366.0 (98.0)	134.0 (35.9)	1.50 (0.40)	532.0 (142.0)	533.0 (161.0)	195.0 (58.9)	2.16 (0.65)	780.0 (236.0)	1.06 (2.39)	0.41 (0.92)	0.002 (0.005)	0.78 (1.75)
8	432.0 (85.4)	158.0 (31.3)	1.78 (0.35)	627.0 (124.0)	602.0 (161.0)	220.0 (58.9)	2.45 (0.65)	882.0 (236.0)	-0.54 (11.90)	-0.21 (4.57)	-0.001 (0.024)	-0.39 (8.64)
9	337.0 (57.9)	123.0 (21.2)	1.39 (0.24)	489.0 (84.1)					0.87 (2.10)	0.34 (0.81)	0.002 (0.004)	0.64 (1.53)
10	377.0 (64.5)	138.0 (23.6)	1.55 (0.27)	548.0 (93.6)	536.0 (105.0)	196.0 (38.5)	2.18 (0.43)	785.0 (154.0)	4.72 (7.24)	1.82 (2.79)	0.010 (0.015)	3.44 (5.28)
11												
12	868.0 (444.0)	318.0 (163.0)	3.57 (1.83)	1260.0 (645.0)	567.0 (77.8)	207.0 (28.5)	2.30 (0.32)	830.0 (114.0)	7.19 (10.20)	2.77 (3.93)	0.015 (0.021)	5.25 (7.43)
13	436.0 (105.0)	160.0 (38.4)	1.80 (0.43)	633.0 (152.0)	515.0 (102.0)	188.0 (37.1)	2.09 (0.41)	754.0 (149.0)	10.20 (12.00)	3.93 (4.63)	0.021 (0.025)	7.42 (8.75)
14	613.0 (189.0)	224.0 (69.2)	2.52 (0.78)	889.0 (274.0)	687.0 (217.0)	251.0 (79.2)	2.79 (0.88)	1010.0 (317.0)	8.73 (7.96)	3.37 (3.07)	0.018 (0.016)	6.36 (5.80)
15	503.0 (130.0)	184.0 (47.7)	2.07 (0.54)	729.0 (189.0)	604.0 (106.0)	221.0 (38.9)	2.46 (0.43)	885.0 (156.0)	9.44 (9.06)	3.64 (3.50)	0.019 (0.019)	6.87 (6.60)
16	465.0 (113.0)	170.0 (41.5)	1.92 (0.47)	674.0 (164.0)	543.0 (94.9)	199.0 (34.7)	2.21 (0.39)	796.0 (139.0)	12.10 (11.50)	4.65 (4.44)	0.025 (0.024)	8.78 (8.37)
17	695.0 (219.0)	254.0 (80.0)	2.86 (0.90)	1010.0 (317.0)	812.0 (178.0)	297.0 (65.2)	3.30 (0.73)	1190.0 (261.0)	8.93 (11.10)	3.44 (4.27)	0.018 (0.023)	6.50 (8.07)
18	745.0 (166.0)	272.0 (60.6)	3.07 (0.68)	1080.0 (240.0)	858.0 (206.0)	314.0 (75.5)	3.49 (0.84)	1260.0 (302.0)	15.00 (16.80)	5.77 (6.48)	0.031 (0.034)	10.90 (12.20)
19	777.0 (152.0)	284.0 (55.6)	3.20 (0.63)	1120.0 (220.0)	629.0 (207.0)	230.0 (75.7)	2.56 (0.84)	919.0 (303.0)	22.00 (20.30)	8.49 (7.84)	0.045 (0.042)	16.00 (14.80)
20	769.0 (204.0)	281.0 (74.7)	3.17 (0.84)	1110.0 (295.0)	645.0 (112.0)	236.0 (41.0)	2.62 (0.46)	943.0 (164.0)	15.50 (15.90)	5.97 (6.13)	0.032 (0.033)	11.30 (11.50)
21	715.0 (221.0)	262.0 (80.7)	2.95 (0.91)	1030.0 (318.0)	707.0 (169.0)	259.0 (61.7)	2.88 (0.69)	1030.0 (247.0)	15.70 (22.70)	6.06 (8.76)	0.032 (0.047)	11.40 (16.50)
22	518.0 (160.0)	189.0 (58.5)	2.14 (0.66)	746.0 (231.0)	633.0 (111.0)	231.0 (40.7)	2.57 (0.45)	926.0 (163.0)	15.00 (21.00)	5.79 (8.11)	0.031 (0.043)	10.90 (15.30)
23	468.0 (159.0)	171.0 (58.3)	1.93 (0.66)	673.0 (230.0)	433.0 (142.0)	158.0 (52.0)	1.76 (0.58)	633.0 (208.0)	7.58 (8.44)	2.92 (3.25)	0.016 (0.017)	5.50 (6.12)
24	669.0 (211.0)	245.0 (77.0)	2.76 (0.87)	962.0 (303.0)	393.0 (96.7)	144.0 (35.4)	1.60 (0.39)	575.0 (142.0)	7.67 (8.61)	2.96 (3.32)	0.016 (0.018)	5.56 (6.25)
25												
26												
27	382.0 (104.0)	140.0 (38.1)	1.58 (0.43)	548.0 (149.0)	341.0 (101.0)	125.0 (36.9)	1.39 (0.41)	500.0 (148.0)	18.00 (32.70)	6.96 (12.60)	0.037 (0.067)	13.10 (23.70)
28	335.0 (127.0)	123.0 (46.5)	1.39 (0.53)	480.0 (182.0)	387.0 (144.0)	142.0 (52.7)	1.58 (0.59)	566.0 (211.0)	10.30 (13.30)	3.96 (5.11)	0.021 (0.027)	7.43 (9.60)
29	263.0 (82.7)	96.3 (30.2)	1.09 (0.34)	377.0 (118.0)	287.0 (64.9)	105.0 (23.8)	1.17 (0.27)	419.0 (94.8)	11.10 (10.60)	4.29 (4.08)	0.023 (0.022)	8.04 (7.65)
30	285.0 (75.7)	104.0 (27.7)	1.18 (0.31)	407.0 (108.0)	316.0 (51.4)	115.0 (18.8)	1.29 (0.21)	461.0 (75.1)	8.74 (11.80)	3.37 (4.55)	0.018 (0.024)	6.31 (8.51)
Avg	473.0	173.0	1.95	684.0	560.0	205.0	2.28	820.0	9.33	3.60	0.019	6.78
n	27	27	27	27	26	26	26	26	27	27	27	27
SD	188.0	68.7	0.78	272.0	157.0	57.4	0.64	230.0	5.76	2.22	0.012	4.18
Min	224.0	81.9	0.92	325.0	287.0	105.0	1.17	419.0	-0.54	-0.21	-0.001	-0.39
Max	868.0	318	3.57	1260.0	869.0	318.0	3.52	1270.0	22.00	8.49	0.045	16.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for July, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	254.0 (58.7)	92.7 (21.5)	1.05 (0.24)	362.0 (83.8)	326.0 (42.8)	119.0 (15.7)	1.33 (0.18)	476.0 (62.5)	7.99 (9.06)	3.08 (3.49)	0.016 (0.019)	5.77 (6.53)
2	306.0 (46.2)	112.0 (16.9)	1.27 (0.19)	436.0 (65.9)	321.0 (77.9)	118.0 (28.5)	1.31 (0.32)	468.0 (114.0)	5.93 (8.34)	2.29 (3.22)	0.012 (0.017)	4.28 (6.01)
3	326.0 (63.8)	119.0 (23.3)	1.35 (0.26)	465.0 (91.0)	313.0 (49.6)	115.0 (18.1)	1.28 (0.20)	456.0 (72.3)	8.98 (11.20)	3.46 (4.31)	0.018 (0.023)	6.47 (8.05)
4	280.0 (40.5)	102.0 (14.8)	1.16 (0.17)	398.0 (57.7)	296.0 (103.0)	108.0 (37.8)	1.21 (0.42)	431.0 (151.0)	18.10 (15.10)	6.96 (5.81)	0.037 (0.031)	13.00 (10.90)
5	519.0 (153.0)	190.0 (55.8)	2.15 (0.63)	739.0 (217.0)	583.0 (97.3)	213.0 (35.6)	2.38 (0.40)	850.0 (142.0)	11.80 (14.90)	4.54 (5.74)	0.024 (0.031)	8.49 (10.70)
6	312.0 (80.3)	114.0 (29.4)	1.29 (0.33)	445.0 (114.0)	385.0 (110.0)	141.0 (40.4)	1.57 (0.45)	563.0 (161.0)	10.60 (16.00)	4.08 (6.17)	0.022 (0.033)	7.63 (11.50)
7	260.0 (59.2)	95.0 (21.7)	1.08 (0.25)	370.0 (84.4)	262.0 (47.9)	95.7 (17.5)	1.07 (0.20)	382.0 (69.9)	8.69 (13.80)	3.35 (5.33)	0.018 (0.028)	6.27 (9.97)
8	327.0 (78.5)	119.0 (28.7)	1.35 (0.33)	466.0 (112.0)	287.0 (66.4)	105.0 (24.3)	1.17 (0.27)	420.0 (97.3)	6.10 (7.80)	2.35 (3.01)	0.013 (0.016)	4.40 (5.63)
9	471.0 (102.0)	172.0 (37.5)	1.95 (0.43)	671.0 (146.0)	415.0 (65.8)	152.0 (24.1)	1.69 (0.27)	608.0 (96.3)	14.50 (13.90)	5.58 (5.35)	0.030 (0.029)	10.50 (10.00)
10	528.0 (105.0)	193.0 (38.4)	2.19 (0.44)	753.0 (150.0)	419.0 (118.0)	153.0 (43.3)	1.71 (0.48)	615.0 (174.0)	11.30 (9.31)	4.37 (3.59)	0.023 (0.019)	8.20 (6.73)
11	718.0 (117.0)	263.0 (42.9)	2.98 (0.49)	1020.0 (167.0)	584.0 (105.0)	214.0 (38.4)	2.38 (0.43)	857.0 (154.0)	12.40 (11.70)	4.76 (4.50)	0.025 (0.024)	8.94 (8.44)
12	626.0 (160.0)	229.0 (58.5)	2.60 (0.66)	893.0 (228.0)	628.0 (95.8)	230.0 (35.0)	2.56 (0.39)	921.0 (141.0)	7.82 (13.00)	3.02 (5.01)	0.016 (0.027)	5.66 (9.41)
13	446.0 (112.0)	163.0 (41.0)	1.85 (0.47)	638.0 (160.0)	387.0 (94.6)	141.0 (34.6)	1.58 (0.39)	568.0 (139.0)	7.32 (8.06)	2.82 (3.11)	0.015 (0.017)	5.30 (5.83)
14	418.0 (77.4)	153.0 (28.3)	1.74 (0.32)	598.0 (111.0)	310.0 (52.0)	114.0 (19.0)	1.27 (0.21)	456.0 (76.4)	33.90 (40.50)	13.10 (15.60)	0.070 (0.084)	24.60 (29.40)
15	536.0 (148.0)	196.0 (54.1)	2.23 (0.62)	767.0 (212.0)	481.0 (143.0)	176.0 (52.2)	1.96 (0.58)	706.0 (210.0)	46.20 (58.60)	17.80 (22.60)	0.095 (0.121)	33.50 (42.40)
16	577.0 (100.0)	211.0 (36.6)	2.40 (0.42)	827.0 (143.0)	473.0 (83.6)	173.0 (30.6)	1.93 (0.34)	694.0 (123.0)	11.20 (10.20)	4.34 (3.95)	0.023 (0.021)	8.15 (7.42)
17	493.0 (76.3)	180.0 (27.9)	2.05 (0.32)	707.0 (109.0)					11.20 (12.10)	4.32 (4.68)	0.023 (0.025)	8.12 (8.81)
18	507.0 (100.0)	185.0 (36.7)	2.11 (0.42)	727.0 (144.0)	411.0 (71.4)	150.0 (26.1)	1.68 (0.29)	604.0 (105.0)	11.50 (12.30)	4.43 (4.73)	0.024 (0.025)	8.34 (8.91)
19	646.0 (139.0)	236.0 (51.0)	2.69 (0.58)	928.0 (200.0)	601.0 (155.0)	220.0 (56.5)	2.46 (0.63)	882.0 (227.0)	16.70 (17.20)	6.42 (6.64)	0.034 (0.036)	12.10 (12.50)
20	607.0 (112.0)	222.0 (40.9)	2.53 (0.47)	872.0 (161.0)	528.0 (103.0)	193.0 (37.6)	2.16 (0.42)	774.0 (151.0)	17.00 (19.10)	6.57 (7.36)	0.035 (0.039)	12.40 (13.80)
21	489.0 (83.3)	179.0 (30.5)	2.04 (0.35)	703.0 (120.0)	471.0 (90.0)	172.0 (32.9)	1.93 (0.37)	690.0 (132.0)	22.40 (25.60)	8.64 (9.87)	0.046 (0.053)	16.20 (18.60)
22	589.0 (116.0)	215.0 (42.6)	2.45 (0.48)	847.0 (167.0)	547.0 (79.9)	200.0 (29.2)	2.23 (0.33)	800.0 (117.0)	22.80 (18.00)	8.80 (6.94)	0.047 (0.037)	16.60 (13.10)
23	673.0 (125.0)	246.0 (45.9)	2.80 (0.52)	969.0 (181.0)	571.0 (80.8)	209.0 (29.5)	2.33 (0.33)	835.0 (118.0)	9.39 (11.90)	3.62 (4.59)	0.019 (0.025)	6.81 (8.63)
24	654.0 (131.0)	239.0 (47.8)	2.72 (0.54)	942.0 (188.0)	484.0 (89.0)	177.0 (32.5)	1.98 (0.36)	707.0 (130.0)	17.60 (13.00)	6.78 (5.01)	0.036 (0.027)	12.80 (9.42)
25	671.0 (126.0)	246.0 (46.0)	2.80 (0.53)	968.0 (181.0)	557.0 (83.2)	204.0 (30.4)	2.28 (0.34)	815.0 (122.0)	19.80 (15.70)	7.65 (6.06)	0.041 (0.032)	14.40 (11.40)
26	826.0 (233.0)	302.0 (85.2)	3.44 (0.97)	1190.0 (336.0)	721.0 (156.0)	264.0 (57.2)	2.95 (0.64)	1060.0 (230.0)	13.50 (9.69)	5.20 (3.74)	0.028 (0.020)	9.81 (7.05)
27	727.0 (149.0)	266.0 (54.4)	3.03 (0.62)	1050.0 (215.0)	632.0 (94.6)	231.0 (34.6)	2.59 (0.39)	929.0 (139.0)	19.10 (13.10)	7.35 (5.04)	0.039 (0.027)	13.90 (9.51)
28	542.0 (109.0)	198.0 (39.9)	2.26 (0.46)	783.0 (158.0)	621.0 (132.0)	227.0 (48.3)	2.54 (0.54)	916.0 (195.0)	20.50 (12.60)	7.91 (4.85)	0.042 (0.026)	15.00 (9.17)
29	461.0 (106.0)	169.0 (38.8)	1.92 (0.44)	666.0 (153.0)	508.0 (121.0)	186.0 (44.1)	2.08 (0.49)	750.0 (178.0)	9.09 (15.80)	3.51 (6.09)	0.019 (0.033)	6.64 (11.50)
30	372.0 (47.5)	136.0 (17.4)	1.55 (0.20)	538.0 (68.6)	329.0 (38.1)	120.0 (13.9)	1.35 (0.16)	488.0 (56.4)	18.60 (18.10)	7.17 (6.99)	0.038 (0.038)	13.60 (13.30)
31	361.0 (51.5)	132.0 (18.8)	1.51 (0.22)	522.0 (74.6)	326.0 (67.1)	119.0 (24.5)	1.34 (0.28)	484.0 (99.5)	19.00 (21.50)	7.32 (8.29)	0.039 (0.044)	13.90 (15.80)
Avg	501.0	183.0	2.08	718.0	459.0	168.0	1.88	673.0	15.20	5.86	0.031	11.00
n	31	31	31	31	30	30	30	30	31	31	31	31
SD	151.0	55.1	0.63	218.0	125.0	45.7	0.51	184.0	8.28	3.19	0.017	6.01
Min	254.0	92.7	1.05	362.0	262.0	95.7	1.07	382.0	5.93	2.29	0.012	4.28
Max	826.0	302	3.44	1190.0	721.0	264.0	2.95	1060.0	46.20	17.80	0.095	33.50

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for August, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	346.0 (54.4)	127.0 (19.9)	1.44 (0.23)	501.0 (78.9)	305.0 (59.0)	112.0 (21.6)	1.25 (0.24)	454.0 (87.7)	21.00 (13.60)	8.11 (5.26)	0.044 (0.028)	15.40 (10.00)
2	433.0 (82.0)	158.0 (30.0)	1.81 (0.34)	627.0 (119.0)	470.0 (78.4)	172.0 (28.7)	1.93 (0.32)	699.0 (117.0)	17.20 (17.70)	6.62 (6.83)	0.036 (0.037)	12.60 (13.00)
3	347.0 (54.1)	127.0 (19.8)	1.45 (0.23)	504.0 (78.5)	311.0 (63.5)	114.0 (23.2)	1.27 (0.26)	462.0 (94.4)	19.10 (9.49)	7.36 (3.66)	0.040 (0.020)	14.00 (6.97)
4	455.0 (89.0)	166.0 (32.5)	1.90 (0.37)	660.0 (129.0)	349.0 (71.2)	128.0 (26.0)	1.43 (0.29)	519.0 (106.0)	24.50 (20.30)	9.44 (7.83)	0.051 (0.042)	18.00 (14.90)
5	397.0 (71.2)	145.0 (26.1)	1.66 (0.30)	578.0 (103.0)	385.0 (71.6)	141.0 (26.2)	1.58 (0.29)	572.0 (107.0)	6.93 (9.66)	2.67 (3.73)	0.014 (0.020)	5.09 (7.10)
6	338.0 (52.2)	124.0 (19.1)	1.41 (0.22)	491.0 (75.8)	251.0 (45.6)	92.0 (16.7)	1.03 (0.19)	374.0 (67.9)	5.73 (10.00)	2.21 (3.86)	0.012 (0.021)	4.21 (7.37)
7					251.0 (51.7)	91.9 (18.9)	1.03 (0.21)	374.0 (77.0)	13.90 (10.90)	5.35 (4.21)	0.029 (0.023)	10.20 (8.04)
8	762.0 (200.0)	279.0 (73.2)	3.19 (0.84)	1110.0 (291.0)	670.0 (277.0)	245.0 (102.0)	2.75 (1.14)	998.0 (414.0)	20.60 (18.80)	7.94 (7.24)	0.043 (0.039)	15.20 (13.80)
9	845.0 (149.0)	309.0 (54.4)	3.53 (0.62)	1230.0 (217.0)	1010.0 (216.0)	370.0 (79.1)	4.15 (0.89)	1510.0 (323.0)	14.20 (7.34)	5.46 (2.83)	0.029 (0.015)	10.40 (5.41)
10	588.0 (142.0)	215.0 (52.1)	2.46 (0.60)	856.0 (207.0)	589.0 (132.0)	216.0 (48.3)	2.42 (0.54)	880.0 (197.0)	9.25 (7.04)	3.57 (2.72)	0.019 (0.015)	6.82 (5.19)
11	616.0 (150.0)	225.0 (55.0)	2.58 (0.63)	896.0 (219.0)	501.0 (117.0)	183.0 (42.9)	2.05 (0.48)	748.0 (175.0)	6.85 (7.36)	2.64 (2.84)	0.014 (0.015)	5.05 (5.42)
12	447.0 (87.2)	163.0 (31.9)	1.87 (0.37)	650.0 (127.0)	419.0 (93.7)	153.0 (34.3)	1.72 (0.38)	627.0 (140.0)	11.90 (24.50)	4.58 (9.43)	0.025 (0.051)	8.76 (18.00)
13	429.0 (113.0)	157.0 (41.3)	1.79 (0.47)	623.0 (164.0)	460.0 (97.2)	168.0 (35.5)	1.89 (0.40)	689.0 (146.0)	15.40 (13.70)	5.93 (5.28)	0.032 (0.028)	11.30 (10.10)
14	347.0 (155.0)	127.0 (56.7)	1.45 (0.65)	505.0 (226.0)	394.0 (127.0)	144.0 (46.6)	1.62 (0.52)	591.0 (191.0)	20.40 (17.20)	7.87 (6.64)	0.042 (0.036)	15.10 (12.70)
15	398.0 (77.7)	146.0 (28.4)	1.67 (0.33)	579.0 (113.0)	313.0 (85.1)	114.0 (31.1)	1.28 (0.35)	469.0 (128.0)	26.40 (22.20)	10.20 (8.57)	0.055 (0.046)	19.50 (16.40)
16	715.0 (190.0)	262.0 (69.6)	3.00 (0.80)	1040.0 (277.0)	637.0 (242.0)	233.0 (88.6)	2.62 (0.99)	958.0 (364.0)	30.10 (18.20)	11.60 (7.01)	0.063 (0.038)	22.30 (13.40)
17	604.0 (94.0)	221.0 (34.4)	2.53 (0.39)	879.0 (137.0)					18.20 (26.80)	7.03 (10.30)	0.038 (0.056)	13.50 (19.80)
18	755.0 (141.0)	276.0 (51.6)	3.17 (0.59)	1100.0 (205.0)	510.0 (79.7)	186.0 (29.1)	2.09 (0.33)	769.0 (120.0)	13.80 (12.30)	5.31 (4.74)	0.029 (0.026)	10.20 (9.10)
19	656.0 (148.0)	240.0 (54.0)	2.75 (0.62)	956.0 (215.0)	412.0 (77.9)	151.0 (28.5)	1.69 (0.32)	623.0 (118.0)	14.40 (17.90)	5.54 (6.90)	0.030 (0.037)	10.70 (13.30)
20	639.0 (111.0)	234.0 (40.6)	2.68 (0.47)	930.0 (162.0)	424.0 (128.0)	155.0 (46.8)	1.74 (0.53)	641.0 (194.0)	11.10 (12.50)	4.26 (4.82)	0.023 (0.026)	8.21 (9.27)
21	582.0 (98.4)	213.0 (36.0)	2.44 (0.41)	848.0 (143.0)	347.0 (56.8)	127.0 (20.8)	1.43 (0.23)	527.0 (86.0)	12.10 (8.37)	4.65 (3.23)	0.025 (0.017)	8.95 (6.22)
22	526.0 (62.5)	192.0 (22.9)	2.21 (0.26)	766.0 (91.1)	334.0 (63.0)	122.0 (23.0)	1.37 (0.26)	507.0 (95.6)	3.79 (6.15)	1.46 (2.37)	0.008 (0.013)	2.81 (4.57)
23	637.0 (104.0)	233.0 (38.0)	2.68 (0.44)	928.0 (151.0)	448.0 (95.0)	164.0 (34.7)	1.84 (0.39)	678.0 (144.0)	5.89 (36.20)	2.27 (14.00)	0.012 (0.075)	4.37 (26.90)
24	579.0 (133.0)	212.0 (48.6)	2.43 (0.56)	843.0 (194.0)	393.0 (64.6)	144.0 (23.6)	1.61 (0.27)	593.0 (97.8)	12.80 (16.40)	4.92 (6.31)	0.027 (0.034)	9.46 (12.10)
25	386.0 (82.0)	141.0 (30.0)	1.62 (0.35)	562.0 (119.0)	357.0 (65.7)	131.0 (24.0)	1.47 (0.27)	539.0 (99.1)	24.70 (17.70)	9.52 (6.83)	0.051 (0.037)	18.30 (13.10)
26	409.0 (66.6)	149.0 (24.4)	1.72 (0.28)	595.0 (97.0)	330.0 (81.1)	121.0 (29.7)	1.36 (0.33)	497.0 (122.0)	18.90 (14.40)	7.28 (5.55)	0.039 (0.030)	14.00 (10.70)
27	412.0 (71.6)	151.0 (26.2)	1.74 (0.30)	601.0 (104.0)	350.0 (72.9)	128.0 (26.7)	1.44 (0.30)	526.0 (109.0)	4.93 (8.24)	1.90 (3.18)	0.010 (0.017)	3.65 (6.10)
28	425.0 (73.7)	155.0 (27.0)	1.79 (0.31)	619.0 (107.0)	325.0 (69.7)	119.0 (25.5)	1.34 (0.29)	488.0 (105.0)	12.90 (19.80)	4.96 (7.65)	0.027 (0.041)	9.51 (14.70)
29	357.0 (70.7)	131.0 (25.9)	1.50 (0.30)	520.0 (103.0)	369.0 (113.0)	135.0 (41.2)	1.52 (0.46)	553.0 (169.0)	27.30 (31.50)	10.50 (12.10)	0.057 (0.066)	20.20 (23.30)
30	327.0 (47.6)	120.0 (17.4)	1.38 (0.20)	475.0 (69.2)	308.0 (51.4)	113.0 (18.8)	1.27 (0.21)	462.0 (76.9)	8.86 (14.00)	3.42 (5.41)	0.018 (0.029)	6.54 (10.40)
31	293.0 (88.1)	107.0 (32.2)	1.24 (0.37)	427.0 (128.0)	255.0 (42.4)	93.1 (15.5)	1.05 (0.18)	381.0 (63.5)	14.40 (27.80)	6.35 (31.50)	0.034 (0.170)	12.10 (60.20)
Avg	502.0	183.0	2.10	730.0	416.0	152.0	1.71	624.0	15.10	5.84	0.031	11.20
n	30	30	30	30	30	30	30	30	31	31	31	31
SD	149.0	54.5	0.62	217.0	151.0	55.4	0.62	226.0	6.92	2.67	0.014	5.10
Min	293.0	107.0	1.24	427.0	251.0	91.9	1.03	374.0	3.79	1.46	0.008	2.81
Max	845.0	309	3.53	1230.0	1010.0	370.0	4.15	1510.0	30.10	11.60	0.063	22.30

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for September, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	310.0 (79.4)	113.0 (29.0)	1.31 (0.33)	451.0 (115.0)	213.0 (33.8)	77.8 (12.4)	0.88 (0.14)	319.0 (50.6)	15.30 (16.90)	5.92 (6.52)	0.032 (0.035)	11.30 (12.50)
2	360.0 (65.7)	132.0 (24.0)	1.52 (0.28)	523.0 (95.5)	234.0 (42.7)	85.7 (15.6)	0.97 (0.18)	351.0 (64.0)	20.60 (24.00)	7.96 (9.27)	0.043 (0.050)	15.20 (17.70)
3	346.0 (66.1)	126.0 (24.2)	1.46 (0.28)	502.0 (95.9)	281.0 (49.4)	103.0 (18.1)	1.16 (0.20)	420.0 (73.9)	41.40 (43.90)	16.00 (16.90)	0.086 (0.091)	30.50 (32.30)
4	338.0 (58.4)	124.0 (21.3)	1.42 (0.25)	490.0 (84.6)	331.0 (70.2)	121.0 (25.7)	1.36 (0.29)	495.0 (105.0)	22.90 (28.40)	8.83 (11.00)	0.048 (0.059)	16.90 (20.90)
5	374.0 (47.9)	137.0 (17.5)	1.58 (0.20)	542.0 (69.4)	355.0 (70.2)	130.0 (25.7)	1.46 (0.29)	530.0 (105.0)	9.55 (11.40)	3.68 (4.39)	0.020 (0.024)	7.03 (8.38)
6	451.0 (83.5)	165.0 (30.5)	1.90 (0.35)	653.0 (121.0)	422.0 (92.0)	154.0 (33.7)	1.74 (0.38)	630.0 (137.0)	15.70 (21.70)	6.06 (8.36)	0.033 (0.045)	11.60 (15.90)
7	415.0 (57.6)	152.0 (21.1)	1.75 (0.24)	602.0 (83.6)	430.0 (63.9)	157.0 (23.4)	1.77 (0.26)	642.0 (95.3)	20.00 (21.20)	7.70 (8.18)	0.042 (0.044)	14.70 (15.60)
8	400.0 (65.5)	146.0 (24.0)	1.69 (0.28)	580.0 (95.1)	369.0 (50.1)	135.0 (18.3)	1.52 (0.21)	550.0 (74.6)	23.60 (34.40)	9.11 (13.30)	0.049 (0.072)	17.40 (25.30)
9	357.0 (70.3)	131.0 (25.7)	1.51 (0.30)	518.0 (102.0)	462.0 (95.7)	169.0 (35.0)	1.91 (0.40)	687.0 (142.0)	17.30 (19.50)	6.69 (7.50)	0.036 (0.041)	12.70 (14.30)
10	452.0 (73.7)	165.0 (27.0)	1.91 (0.31)	657.0 (107.0)	445.0 (94.3)	163.0 (34.5)	1.83 (0.39)	660.0 (140.0)	12.40 (14.90)	4.77 (5.74)	0.026 (0.031)	9.08 (10.90)
11	437.0 (65.3)	160.0 (23.9)	1.85 (0.28)	634.0 (94.9)	398.0 (62.9)	145.0 (23.0)	1.64 (0.26)	590.0 (93.4)	18.20 (20.50)	7.00 (7.89)	0.038 (0.043)	13.30 (15.00)
12	360.0 (94.4)	132.0 (34.5)	1.52 (0.40)	522.0 (137.0)	342.0 (62.1)	125.0 (22.7)	1.41 (0.26)	508.0 (92.3)	23.80 (26.20)	9.16 (10.10)	0.050 (0.055)	17.40 (19.20)
13	425.0 (85.0)	155.0 (31.1)	1.80 (0.36)	617.0 (123.0)	497.0 (132.0)	182.0 (48.4)	2.05 (0.55)	739.0 (197.0)	25.90 (27.50)	9.98 (10.60)	0.054 (0.057)	19.00 (20.20)
14	339.0 (154.0)	124.0 (56.2)	1.43 (0.65)	491.0 (223.0)	310.0 (155.0)	113.0 (56.7)	1.28 (0.64)	462.0 (231.0)	23.80 (33.00)	9.16 (12.70)	0.050 (0.069)	17.50 (24.30)
15	448.0 (53.8)	164.0 (19.7)	1.89 (0.23)	650.0 (78.0)	422.0 (102.0)	154.0 (37.4)	1.74 (0.42)	630.0 (153.0)	18.70 (24.40)	7.19 (9.42)	0.039 (0.051)	13.70 (18.00)
16	413.0 (61.1)	151.0 (22.3)	1.75 (0.26)	599.0 (88.6)	391.0 (70.8)	143.0 (25.9)	1.61 (0.29)	586.0 (106.0)	10.60 (11.30)	4.07 (4.37)	0.022 (0.024)	7.78 (8.35)
17	418.0 (70.1)	153.0 (25.7)	1.77 (0.30)	606.0 (102.0)	313.0 (50.2)	115.0 (18.3)	1.29 (0.21)	471.0 (75.3)	23.10 (21.70)	8.89 (8.37)	0.048 (0.045)	17.00 (16.00)
18												
19	381.0 (52.5)	139.0 (19.2)	1.61 (0.22)	553.0 (76.1)	329.0 (61.4)	120.0 (22.5)	1.36 (0.25)	496.0 (92.6)	12.30 (15.60)	4.74 (6.02)	0.026 (0.033)	9.09 (11.50)
20	463.0 (88.4)	169.0 (32.3)	1.96 (0.37)	673.0 (129.0)	457.0 (151.0)	167.0 (55.3)	1.89 (0.63)	687.0 (228.0)	29.40 (47.10)	11.40 (18.20)	0.062 (0.098)	21.80 (34.80)
21	440.0 (57.6)	161.0 (21.1)	1.86 (0.24)	640.0 (84.0)	493.0 (68.7)	180.0 (25.1)	2.04 (0.28)	742.0 (103.0)	93.70 (112.00)	36.10 (43.30)	0.196 (0.235)	69.30 (83.10)
22	337.0 (82.7)	123.0 (30.2)	1.43 (0.35)	491.0 (120.0)	401.0 (71.2)	147.0 (26.0)	1.65 (0.29)	602.0 (107.0)	143.00 (163.00)	55.30 (62.90)	0.300 (0.341)	106.00 (121.00)
23	294.0 (75.2)	108.0 (27.5)	1.25 (0.32)	430.0 (110.0)	306.0 (57.4)	112.0 (21.0)	1.27 (0.24)	460.0 (86.1)	59.90 (69.00)	23.10 (26.60)	0.125 (0.144)	44.30 (51.10)
24	352.0 (49.0)	129.0 (17.9)	1.49 (0.21)	515.0 (71.8)	363.0 (47.4)	133.0 (17.4)	1.50 (0.20)	544.0 (71.0)	31.90 (192.00)	12.30 (74.20)	0.067 (0.402)	23.60 (142.00)
25	370.0 (42.6)	135.0 (15.6)	1.57 (0.18)	542.0 (62.4)	344.0 (62.6)	126.0 (22.9)	1.42 (0.26)	515.0 (93.7)	6.95 (11.10)	2.68 (4.27)	0.015 (0.023)	5.15 (8.20)
26	370.0 (64.5)	135.0 (23.6)	1.57 (0.27)	543.0 (94.6)	307.0 (59.5)	112.0 (21.8)	1.27 (0.25)	459.0 (89.1)	16.60 (39.80)	6.41 (15.30)	0.035 (0.083)	12.30 (29.40)
27	380.0 (48.1)	139.0 (17.6)	1.61 (0.20)	557.0 (70.6)	366.0 (64.4)	134.0 (23.6)	1.51 (0.27)	545.0 (95.7)	13.40 (26.60)	5.18 (10.30)	0.028 (0.056)	9.93 (19.70)
28	258.0 (68.7)	94.4 (25.1)	1.10 (0.29)	378.0 (101.0)	262.0 (96.6)	96.0 (35.3)	1.09 (0.40)	390.0 (144.0)	6.66 (6.95)	2.57 (2.68)	0.014 (0.015)	4.91 (5.13)
29	267.0 (43.7)	97.7 (16.0)	1.13 (0.19)	392.0 (64.0)	185.0 (24.7)	67.8 (9.0)	0.77 (0.10)	275.0 (36.6)	7.20 (11.00)	2.78 (4.26)	0.015 (0.023)	5.31 (8.13)
30	317.0 (63.5)	116.0 (23.2)	1.35 (0.27)	465.0 (93.1)	212.0 (40.0)	77.7 (14.6)	0.88 (0.17)	314.0 (59.1)	3.85 (6.53)	1.49 (2.52)	0.008 (0.014)	2.83 (4.81)
Avg	375.0	137.0	1.58	545.0	353.0	129.0	1.46	527.0	26.50	10.20	0.055	19.50
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	54.6	20.0	0.23	78.4	82.4	30.2	0.34	123.0	28.20	10.90	0.059	20.80
Min	258.0	94.4	1.10	378.0	185.0	67.8	0.77	275.0	3.85	1.49	0.008	2.83
Max	463.0	169	1.96	673.0	497.0	182.0	2.05	742.0	143.00	55.30	0.300	106.00

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for October, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	315.0 (65.2)	115.0 (23.9)	1.34 (0.28)	462.0 (95.6)	248.0 (40.5)	90.9 (14.8)	1.03 (0.17)	366.0 (59.4)	15.80 (17.10)	6.11 (6.60)	0.033 (0.036)	11.60 (12.60)
2	325.0 (40.7)	119.0 (14.9)	1.38 (0.17)	476.0 (59.7)	332.0 (75.7)	121.0 (27.7)	1.37 (0.31)	488.0 (111.0)	11.20 (10.80)	4.31 (4.18)	0.023 (0.023)	8.19 (7.96)
3	372.0 (57.1)	136.0 (20.9)	1.58 (0.24)	546.0 (83.9)	287.0 (50.7)	105.0 (18.5)	1.19 (0.21)	422.0 (74.3)	8.19 (7.73)	3.16 (2.98)	0.017 (0.016)	6.01 (5.67)
4	446.0 (43.7)	163.0 (16.0)	1.90 (0.19)	657.0 (64.6)	325.0 (62.6)	119.0 (22.9)	1.34 (0.26)	476.0 (91.7)	16.20 (17.50)	6.23 (6.74)	0.034 (0.037)	11.90 (12.90)
5	392.0 (82.5)	144.0 (30.2)	1.67 (0.35)	580.0 (122.0)	297.0 (47.3)	109.0 (17.3)	1.23 (0.20)	435.0 (69.3)	20.20 (39.80)	7.77 (15.30)	0.042 (0.083)	14.80 (29.30)
6	361.0 (62.0)	132.0 (22.7)	1.53 (0.26)	535.0 (91.8)	321.0 (71.1)	117.0 (26.0)	1.33 (0.30)	470.0 (104.0)	33.10 (21.90)	12.80 (8.46)	0.070 (0.046)	24.40 (16.20)
7	360.0 (54.6)	132.0 (20.0)	1.53 (0.23)	536.0 (81.2)	291.0 (55.0)	106.0 (20.1)	1.20 (0.23)	425.0 (80.5)	46.60 (41.10)	18.00 (15.80)	0.098 (0.086)	34.40 (30.30)
8	373.0 (58.3)	137.0 (21.3)	1.59 (0.25)	558.0 (87.2)	266.0 (53.8)	97.5 (19.7)	1.10 (0.22)	390.0 (78.7)	78.10 (92.30)	30.10 (35.60)	0.164 (0.194)	57.70 (68.20)
9	403.0 (43.9)	147.0 (16.0)	1.72 (0.19)	604.0 (65.8)	342.0 (71.4)	125.0 (26.1)	1.42 (0.30)	500.0 (104.0)	32.10 (35.30)	12.40 (13.60)	0.067 (0.074)	23.70 (26.10)
10	355.0 (105.0)	130.0 (38.3)	1.51 (0.45)	533.0 (157.0)	259.0 (32.4)	94.7 (11.9)	1.07 (0.13)	377.0 (47.1)	27.10 (29.00)	10.50 (11.20)	0.057 (0.061)	20.00 (21.40)
11	270.0 (60.8)	98.9 (22.2)	1.15 (0.26)	405.0 (90.9)	285.0 (29.2)	104.0 (10.7)	1.18 (0.12)	414.0 (42.3)	26.10 (28.40)	10.10 (11.00)	0.055 (0.060)	19.30 (20.90)
12	367.0 (92.5)	134.0 (33.8)	1.56 (0.39)	548.0 (138.0)	310.0 (34.8)	113.0 (12.7)	1.28 (0.14)	449.0 (50.3)	32.30 (29.50)	12.50 (11.40)	0.068 (0.062)	23.80 (21.70)
13	398.0 (75.9)	145.0 (27.7)	1.70 (0.32)	593.0 (113.0)	333.0 (47.7)	122.0 (17.4)	1.38 (0.20)	481.0 (69.0)	39.70 (46.70)	15.30 (18.00)	0.083 (0.098)	29.10 (34.30)
14	447.0 (50.6)	163.0 (18.5)	1.90 (0.22)	665.0 (75.2)	291.0 (32.0)	106.0 (11.7)	1.21 (0.13)	419.0 (46.2)	50.40 (49.70)	19.40 (19.20)	0.106 (0.104)	36.80 (36.30)
15	440.0 (78.2)	161.0 (28.6)	1.88 (0.33)	654.0 (116.0)	324.0 (42.9)	118.0 (15.7)	1.34 (0.18)	465.0 (61.4)	73.20 (69.60)	28.20 (26.80)	0.154 (0.146)	53.40 (50.80)
16	434.0 (94.7)	159.0 (34.6)	1.85 (0.40)	643.0 (140.0)	290.0 (47.8)	106.0 (17.5)	1.20 (0.20)	415.0 (68.5)	72.00 (58.30)	27.80 (22.50)	0.151 (0.123)	52.40 (42.50)
17	516.0 (108.0)	189.0 (39.5)	2.20 (0.46)	763.0 (160.0)	381.0 (55.8)	139.0 (20.4)	1.58 (0.23)	545.0 (80.0)	56.00 (135.00)	21.60 (51.90)	0.118 (0.283)	40.70 (97.80)
18	654.0 (58.3)	239.0 (21.3)	2.79 (0.25)	965.0 (85.3)	473.0 (78.8)	173.0 (28.8)	1.96 (0.33)	677.0 (113.0)	52.90 (43.40)	20.40 (16.70)	0.111 (0.091)	38.40 (31.50)
19	572.0 (89.0)	209.0 (32.5)	2.44 (0.38)	842.0 (131.0)	404.0 (70.0)	148.0 (25.6)	1.68 (0.29)	579.0 (100.0)	71.40 (20.20)	27.50 (7.80)	0.150 (0.043)	51.80 (14.70)
20	480.0 (120.0)	175.0 (44.1)	2.05 (0.51)	703.0 (177.0)	400.0 (122.0)	146.0 (44.7)	1.66 (0.51)	574.0 (175.0)	92.10 (31.40)	35.50 (12.10)	0.194 (0.066)	66.80 (22.80)
21	377.0 (76.4)	138.0 (28.0)	1.61 (0.33)	551.0 (112.0)	266.0 (55.5)	97.2 (20.3)	1.10 (0.23)	382.0 (79.6)	87.20 (31.40)	33.60 (12.10)	0.184 (0.066)	63.20 (22.70)
22	345.0 (65.9)	126.0 (24.1)	1.48 (0.28)	504.0 (96.0)	272.0 (57.1)	99.6 (20.9)	1.13 (0.24)	392.0 (82.1)	40.30 (38.70)	15.50 (14.90)	0.085 (0.081)	29.20 (28.00)
23					302.0 (68.5)	110.0 (25.0)	1.25 (0.28)	434.0 (98.6)	33.20 (23.20)	12.80 (8.94)	0.070 (0.049)	24.00 (16.80)
24					236.0 (50.0)	86.2 (18.3)	0.98 (0.21)	339.0 (72.1)	27.70 (19.80)	10.70 (7.64)	0.058 (0.042)	20.00 (14.30)
25	410.0 (36.3)	150.0 (13.3)	1.75 (0.16)	595.0 (52.7)	257.0 (72.6)	94.0 (26.6)	1.07 (0.30)	369.0 (104.0)	59.10 (36.60)	22.80 (14.10)	0.124 (0.077)	42.70 (26.50)
26												
27												
28	435.0 (81.0)	159.0 (29.6)	1.87 (0.35)	633.0 (118.0)	367.0 (110.0)	134.0 (40.1)	1.53 (0.46)	526.0 (157.0)	61.00 (59.40)	23.50 (22.90)	0.129 (0.125)	44.00 (42.90)
29	472.0 (67.9)	173.0 (24.8)	2.02 (0.29)	686.0 (98.7)	383.0 (81.8)	140.0 (29.9)	1.59 (0.34)	547.0 (117.0)	58.50 (41.90)	22.60 (16.10)	0.123 (0.088)	42.20 (30.20)
30	510.0 (105.0)	186.0 (38.5)	2.18 (0.45)	742.0 (153.0)	388.0 (116.0)	142.0 (42.4)	1.61 (0.48)	555.0 (166.0)	63.10 (46.00)	24.30 (17.70)	0.133 (0.097)	45.50 (33.20)
31					315.0 (62.9)	115.0 (23.0)	1.31 (0.26)	450.0 (89.8)	28.90 (22.30)	11.10 (8.62)	0.061 (0.047)	20.80 (16.10)
Avg	417.0	152.0	1.78	615.0	319.0	117.0	1.32	461.0	45.30	17.50	0.095	33.00
n	26	26	26	26	29	29	29	29	29	29	29	29
SD	81.7	29.9	0.35	119.0	54.5	19.9	0.23	76.5	22.90	8.82	0.048	16.60
Min	270.0	98.9	1.15	405.0	236.0	86.2	0.98	339.0	8.19	3.16	0.017	6.01
Max	654.0	239	2.79	965.0	473.0	173.0	1.96	677.0	92.10	35.50	0.194	66.80

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for November, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1	447.0 (54.3)	164.0 (19.8)	1.92 (0.23)	653.0 (79.5)	285.0 (39.9)	104.0 (14.6)	1.18 (0.17)	407.0 (57.2)	38.40 (31.90)	14.80 (12.30)	0.081 (0.067)	27.70 (23.10)
2	368.0 (65.5)	135.0 (23.9)	1.58 (0.28)	539.0 (95.7)	229.0 (42.5)	83.6 (15.5)	0.95 (0.18)	327.0 (60.8)	37.40 (31.50)	14.40 (12.10)	0.079 (0.066)	27.00 (22.80)
3	378.0 (84.8)	138.0 (31.0)	1.62 (0.36)	555.0 (125.0)	171.0 (34.4)	62.4 (12.6)	0.71 (0.14)	244.0 (49.4)	25.20 (32.70)	9.72 (12.60)	0.053 (0.069)	18.30 (23.70)
4	440.0 (74.4)	161.0 (27.2)	1.89 (0.32)	648.0 (110.0)	225.0 (32.3)	82.3 (11.8)	0.94 (0.13)	323.0 (46.4)	70.30 (46.20)	27.10 (17.80)	0.149 (0.098)	51.10 (33.60)
5	458.0 (86.4)	167.0 (31.6)	1.97 (0.37)	675.0 (127.0)	216.0 (39.5)	79.2 (14.4)	0.90 (0.16)	311.0 (56.8)	22.90 (23.10)	8.85 (8.91)	0.049 (0.049)	16.70 (16.80)
6	455.0 (112.0)	167.0 (41.0)	1.96 (0.48)	674.0 (166.0)	347.0 (100.0)	127.0 (36.6)	1.44 (0.42)	499.0 (144.0)	70.70 (82.80)	27.30 (31.90)	0.149 (0.175)	51.60 (60.40)
7	352.0 (91.0)	129.0 (33.3)	1.51 (0.39)	522.0 (135.0)	345.0 (55.1)	126.0 (20.2)	1.43 (0.23)	496.0 (79.4)	17.10 (7.72)	6.61 (2.98)	0.036 (0.016)	12.50 (5.64)
8	306.0 (64.0)	112.0 (23.4)	1.32 (0.28)	455.0 (95.3)	312.0 (64.5)	114.0 (23.6)	1.30 (0.27)	448.0 (92.6)	54.10 (46.80)	20.90 (18.00)	0.114 (0.099)	39.60 (34.20)
9	373.0 (87.6)	136.0 (32.0)	1.60 (0.38)	557.0 (131.0)	308.0 (42.9)	113.0 (15.7)	1.28 (0.18)	442.0 (61.6)	29.80 (26.50)	11.50 (10.20)	0.063 (0.056)	21.80 (19.40)
10	341.0 (39.7)	125.0 (14.5)	1.47 (0.17)	510.0 (59.4)	342.0 (48.0)	125.0 (17.6)	1.42 (0.20)	490.0 (68.8)	18.40 (29.60)	7.11 (11.40)	0.039 (0.063)	13.50 (21.60)
11	374.0 (93.9)	137.0 (34.3)	1.61 (0.40)	561.0 (141.0)	290.0 (30.8)	106.0 (11.3)	1.21 (0.13)	415.0 (44.0)	11.30 (18.70)	4.34 (7.22)	0.024 (0.040)	8.25 (13.70)
12	375.0 (71.0)	137.0 (26.0)	1.61 (0.31)	563.0 (107.0)	294.0 (27.8)	108.0 (10.2)	1.23 (0.12)	421.0 (39.8)	4.37 (6.27)	1.68 (2.42)	0.009 (0.013)	3.20 (4.60)
13	373.0 (67.2)	136.0 (24.6)	1.61 (0.29)	562.0 (101.0)	306.0 (51.4)	112.0 (18.8)	1.28 (0.21)	438.0 (73.4)	16.20 (33.60)	6.23 (12.90)	0.034 (0.071)	11.90 (24.60)
14	402.0 (59.2)	147.0 (21.6)	1.73 (0.26)	605.0 (89.0)	301.0 (74.2)	110.0 (27.1)	1.25 (0.31)	429.0 (106.0)	21.50 (12.80)	8.29 (4.93)	0.046 (0.027)	15.70 (9.36)
15	399.0 (46.7)	146.0 (17.1)	1.72 (0.20)	597.0 (69.2)	306.0 (37.9)	112.0 (13.9)	1.28 (0.16)	437.0 (54.1)	3.73 (6.92)	1.44 (2.67)	0.008 (0.015)	2.73 (5.06)
16	461.0 (57.3)	168.0 (21.0)	1.99 (0.25)	685.0 (85.9)	312.0 (51.2)	114.0 (18.7)	1.30 (0.21)	445.0 (73.1)	3.50 (7.50)	1.35 (2.89)	0.007 (0.016)	2.54 (5.46)
17	434.0 (67.1)	159.0 (24.5)	1.87 (0.29)	642.0 (99.6)	329.0 (45.0)	120.0 (16.5)	1.37 (0.19)	469.0 (64.3)	8.40 (13.20)	3.24 (5.10)	0.018 (0.028)	6.10 (9.59)
18	391.0 (77.0)	143.0 (28.2)	1.69 (0.33)	574.0 (114.0)	289.0 (64.1)	106.0 (23.5)	1.21 (0.27)	413.0 (91.6)	15.10 (27.80)	5.83 (10.70)	0.032 (0.059)	10.90 (20.10)
19	309.0 (54.3)	113.0 (19.9)	1.33 (0.23)	451.0 (79.4)	180.0 (41.3)	65.7 (15.1)	0.75 (0.17)	256.0 (59.0)	12.50 (8.21)	4.84 (3.17)	0.027 (0.017)	9.06 (5.93)
20	312.0 (60.2)	114.0 (22.0)	1.35 (0.26)	454.0 (87.8)	223.0 (25.2)	81.5 (9.2)	0.93 (0.11)	318.0 (36.0)	14.00 (12.10)	5.39 (4.66)	0.030 (0.026)	10.10 (8.70)
21	281.0 (49.2)	103.0 (18.0)	1.21 (0.21)	407.0 (71.3)	215.0 (33.4)	78.8 (12.2)	0.90 (0.14)	308.0 (47.8)	44.80 (37.40)	17.30 (14.40)	0.095 (0.079)	32.20 (26.90)
22	328.0 (34.1)	120.0 (12.5)	1.42 (0.15)	476.0 (49.4)	223.0 (40.5)	81.7 (14.8)	0.93 (0.17)	320.0 (58.0)	12.30 (14.80)	4.74 (5.71)	0.026 (0.031)	8.86 (10.70)
23	300.0 (48.0)	110.0 (17.5)	1.30 (0.21)	435.0 (69.5)	203.0 (37.2)	74.4 (13.6)	0.85 (0.16)	291.0 (53.2)	3.68 (6.28)	1.42 (2.42)	0.008 (0.013)	2.65 (4.52)
24	300.0 (44.4)	110.0 (16.3)	1.30 (0.19)	435.0 (64.4)	148.0 (22.1)	54.2 (8.1)	0.62 (0.09)	213.0 (31.7)	7.18 (10.40)	2.77 (4.01)	0.015 (0.022)	5.18 (7.49)
25	363.0 (46.0)	133.0 (16.8)	1.57 (0.20)	527.0 (66.7)	117.0 (21.6)	42.8 (7.9)	0.49 (0.09)	168.0 (31.0)	9.25 (5.38)	3.57 (2.07)	0.020 (0.011)	6.68 (3.88)
26	404.0 (45.0)	148.0 (16.5)	1.75 (0.20)	585.0 (65.3)	110.0 (18.1)	40.4 (6.6)	0.46 (0.08)	159.0 (26.0)	10.50 (10.30)	4.06 (3.99)	0.022 (0.022)	7.60 (7.47)
27	390.0 (58.0)	143.0 (21.2)	1.69 (0.25)	566.0 (84.1)	98.4 (17.7)	36.0 (6.5)	0.41 (0.07)	142.0 (25.5)	13.50 (14.90)	5.22 (5.73)	0.029 (0.032)	9.77 (10.70)
28	359.0 (47.2)	131.0 (17.3)	1.55 (0.20)	521.0 (68.4)	98.1 (28.2)	35.9 (10.3)	0.41 (0.12)	143.0 (40.6)	33.20 (24.90)	12.80 (9.61)	0.071 (0.053)	24.10 (18.00)
29	400.0 (41.8)	146.0 (15.3)	1.73 (0.18)	582.0 (60.9)	95.9 (27.4)	35.1 (10.0)	0.40 (0.11)	142.0 (40.9)	15.30 (12.90)	5.90 (4.99)	0.033 (0.028)	11.20 (9.47)
30	375.0 (37.4)	137.0 (13.7)	1.62 (0.16)	545.0 (54.3)	79.2 (16.7)	29.0 (6.1)	0.33 (0.07)	120.0 (24.7)	6.36 (6.59)	2.45 (2.54)	0.014 (0.014)	4.73 (4.89)
Avg	375.0	137.0	1.62	552.0	233.0	85.3	0.97	335.0	21.70	8.37	0.046	15.80
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	49.7	18.2	0.21	75.5	84.8	31.0	0.35	121.0	18.10	6.98	0.038	13.20
Min	281.0	103.0	1.21	407.0	79.2	29.0	0.33	120.0	3.50	1.35	0.007	2.54
Max	461.0	168	1.99	685.0	347.0	127.0	1.44	499.0	70.70	27.30	0.149	51.60

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Table F11. Daily means (SD) of hydrogen sulfide emissions at site IN2B for December, 2009.

Day	House 8				House 9				Manure shed			
	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$	$g \cdot d^{-1}$	$mg \cdot d^{-1} m^{-2}$	$mg \cdot d^{-1} hd^{-1}$	$mg \cdot d^{-1} AU^{-1}$
1					58.5 (32.1)	21.4 (11.7)	0.24 (0.13)	90.4 (49.4)	12.70 (13.50)	4.89 (5.19)	0.027 (0.029)	9.52 (10.10)
2	363.0 (37.9)	133.0 (13.9)	1.57 (0.16)	528.0 (55.2)	57.6 (29.1)	21.1 (10.6)	0.24 (0.12)	91.3 (46.1)	17.00 (23.50)	6.57 (9.07)	0.036 (0.050)	12.90 (17.90)
3	410.0 (65.1)	150.0 (23.8)	1.78 (0.28)	598.0 (94.8)	71.3 (24.1)	26.1 (8.8)	0.30 (0.10)	115.0 (38.7)	13.20 (11.90)	5.10 (4.60)	0.028 (0.025)	10.10 (9.14)
4	403.0 (149.0)	147.0 (54.5)	1.75 (0.65)	588.0 (217.0)	68.0 (21.9)	24.9 (8.0)	0.28 (0.09)	112.0 (36.1)	8.91 (6.55)	3.44 (2.53)	0.019 (0.014)	6.91 (5.07)
5	265.0 (58.6)	97.0 (21.4)	1.15 (0.25)	387.0 (85.5)	92.0 (26.6)	33.6 (9.7)	0.39 (0.11)	154.0 (44.5)	13.30 (18.30)	5.13 (7.05)	0.028 (0.039)	10.40 (14.20)
6	308.0 (64.4)	112.0 (23.5)	1.33 (0.28)	448.0 (93.7)	66.7 (17.3)	24.4 (6.3)	0.28 (0.07)	112.0 (28.9)	18.60 (21.60)	7.18 (8.35)	0.040 (0.046)	14.50 (16.80)
7	436.0 (105.0)	159.0 (38.6)	1.89 (0.46)	635.0 (153.0)	70.8 (13.5)	25.9 (4.9)	0.30 (0.06)	119.0 (22.5)	15.70 (18.80)	6.04 (7.25)	0.033 (0.040)	12.20 (14.60)
8	500.0 (44.3)	183.0 (16.2)	2.17 (0.19)	727.0 (64.4)	89.5 (27.7)	32.8 (10.1)	0.38 (0.12)	150.0 (46.4)	21.10 (39.00)	8.12 (15.00)	0.045 (0.083)	16.40 (30.30)
9									37.50 (42.50)	14.50 (16.40)	0.080 (0.091)	29.20 (33.00)
10	542.0 (70.0)	198.0 (25.6)	2.36 (0.30)	787.0 (101.0)					24.50 (15.20)	9.45 (5.87)	0.052 (0.032)	19.10 (11.80)
11	580.0 (136.0)	212.0 (49.8)	2.52 (0.59)	841.0 (198.0)	105.0 (48.3)	38.5 (17.7)	0.44 (0.20)	176.0 (80.9)	49.60 (49.70)	19.10 (19.20)	0.106 (0.106)	38.50 (38.60)
12	543.0 (96.8)	198.0 (35.4)	2.36 (0.42)	786.0 (140.0)	98.9 (40.6)	36.2 (14.8)	0.41 (0.17)	166.0 (67.9)	87.00 (58.90)	33.50 (22.70)	0.185 (0.126)	67.60 (45.70)
13					106.0 (18.3)	38.8 (6.7)	0.45 (0.08)	178.0 (30.6)	69.60 (58.70)	26.90 (22.60)	0.149 (0.125)	54.10 (45.60)
14	693.0 (66.1)	253.0 (24.2)	3.01 (0.29)	1000.0 (95.6)	102.0 (30.6)	37.4 (11.2)	0.43 (0.13)	172.0 (51.2)	93.10 (83.50)	35.90 (32.20)	0.199 (0.178)	72.30 (64.80)
15	625.0 (139.0)	229.0 (50.9)	2.72 (0.61)	902.0 (201.0)	90.1 (38.2)	33.0 (14.0)	0.38 (0.16)	151.0 (64.2)	24.40 (26.80)	9.41 (10.30)	0.052 (0.057)	18.90 (20.80)
16	465.0 (65.1)	170.0 (23.8)	2.02 (0.28)	671.0 (94.0)	86.0 (28.5)	31.5 (10.4)	0.36 (0.12)	145.0 (47.9)	37.40 (45.00)	14.40 (17.40)	0.080 (0.096)	29.00 (34.90)
17	451.0 (81.2)	165.0 (29.7)	1.96 (0.35)	650.0 (117.0)	84.5 (17.5)	30.9 (6.4)	0.35 (0.07)	142.0 (29.4)	103.00 (72.50)	39.70 (28.00)	0.220 (0.155)	79.80 (56.30)
18					147.0 (54.3)	53.9 (19.8)	0.62 (0.23)	248.0 (91.3)	72.70 (87.80)	28.10 (33.90)	0.155 (0.188)	56.40 (68.10)
19					205.0 (27.5)	75.1 (10.1)	0.86 (0.12)	344.0 (45.9)	70.60 (54.70)	27.20 (21.10)	0.151 (0.117)	54.70 (42.40)
20					227.0 (19.4)	82.9 (7.1)	0.95 (0.08)	378.0 (32.0)	37.60 (42.40)	14.50 (16.40)	0.080 (0.091)	29.00 (32.80)
21					174.0 (55.5)	63.5 (20.3)	0.73 (0.23)	287.0 (92.2)	17.30 (19.30)	6.68 (7.43)	0.037 (0.041)	13.30 (14.80)
22	497.0 (78.3)	182.0 (28.6)	2.17 (0.34)	715.0 (113.0)	202.0 (37.0)	73.9 (13.5)	0.85 (0.16)	332.0 (60.3)	31.50 (29.50)	12.20 (11.40)	0.067 (0.063)	24.20 (22.60)
23	401.0 (93.0)	147.0 (34.0)	1.75 (0.41)	577.0 (134.0)	190.0 (77.4)	69.3 (28.3)	0.80 (0.33)	309.0 (127.0)	69.90 (45.60)	27.00 (17.60)	0.150 (0.098)	53.40 (34.80)
24	378.0 (39.8)	138.0 (14.5)	1.65 (0.17)	543.0 (57.2)	126.0 (37.4)	46.0 (13.7)	0.53 (0.16)	204.0 (60.5)	62.50 (44.00)	24.10 (17.00)	0.134 (0.094)	47.60 (33.50)
25	384.0 (74.6)	140.0 (27.3)	1.67 (0.33)	551.0 (107.0)	206.0 (59.5)	75.4 (21.8)	0.87 (0.25)	332.0 (95.4)	266.00 (218.00)	103.00 (84.20)	0.569 (0.467)	202.00 (166.00)
26	394.0 (63.6)	144.0 (23.3)	1.72 (0.28)	568.0 (91.6)	103.0 (26.6)	37.8 (9.7)	0.43 (0.11)	165.0 (42.4)	254.00 (118.00)	97.80 (45.50)	0.543 (0.252)	192.00 (89.40)
27	452.0 (39.4)	165.0 (14.4)	1.97 (0.17)	656.0 (57.4)	139.0 (39.8)	50.8 (14.5)	0.58 (0.17)	220.0 (62.7)	86.30 (102.00)	33.30 (39.20)	0.185 (0.217)	65.50 (77.00)
28	383.0 (55.8)	140.0 (20.4)	1.67 (0.24)	559.0 (80.6)	87.3 (45.0)	31.9 (16.5)	0.37 (0.19)	137.0 (70.8)	29.70 (30.20)	11.50 (11.60)	0.064 (0.065)	22.50 (22.90)
29	341.0 (30.9)	125.0 (11.3)	1.49 (0.14)	502.0 (45.8)	134.0 (39.2)	48.9 (14.3)	0.56 (0.17)	209.0 (61.0)	105.00 (133.00)	40.30 (51.30)	0.224 (0.285)	79.30 (101.00)
30	356.0 (65.1)	130.0 (23.8)	1.56 (0.29)	528.0 (96.3)	99.5 (70.5)	36.4 (25.8)	0.42 (0.30)	155.0 (110.0)	282.00 (205.00)	109.00 (79.20)	0.604 (0.440)	214.00 (156.00)
31					107.0 (57.5)	39.3 (21.0)	0.45 (0.24)	165.0 (88.5)	42.60 (53.10)	16.40 (20.50)	0.091 (0.114)	32.30 (40.30)
Avg	442.0	162.0	1.92	641.0	117.0	42.8	0.49	192.0	66.90	25.80	0.143	51.20
n	23	23	23	23	29	29	29	29	31	31	31	31
SD	101.0	36.9	0.44	144.0	48.3	17.7	0.20	80.0	71.60	27.60	0.153	54.30
Min	265.0	97.0	1.15	387.0	57.6	21.1	0.24	90.4	8.91	3.44	0.019	6.91
Max	693.0	253	3.01	1000.0	227.0	82.9	0.95	378.0	282.00	109.00	0.604	214.00

Table F12. Ammonia concentrations.

Table F12. Daily means (SD) of NH3 concentrations at site IN2B for January, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	-0.1 (0.1)	-0.3 (0.1)	6.9 (0.4)		1.2 (0.1)		8.5 (2.2)		1.1 (0.2)		3.4 (0.5)	
2	-0.4 (0.1)	-0.4 (0.0)	7.2 (2.2)		1.4 (0.2)		8.7 (4.2)		1.2 (0.3)		2.5 (0.5)	
3	0.7 (0.9)	0.0 (0.3)	10.4 (3.3)	7.4 (2.4)	2.0 (0.3)	1.4 (0.3)	17.9 (9.6)	12.8 (6.9)	2.3 (0.5)	1.6 (0.4)	3.8 (0.9)	2.7 (0.6)
4	2.1 (1.1)	0.7 (0.6)	14.8 (5.2)	10.5 (3.7)	4.1 (1.5)	2.9 (1.1)	40.5 (3.8)	29.0 (2.7)	4.2 (1.3)	3.0 (1.0)		
5	4.8 (0.7)	2.0 (0.8)	15.9 (1.2)	11.3 (0.9)	11.2 (1.9)	8.0 (1.4)	40.6 (7.1)	29.1 (5.1)	11.4 (2.0)	8.2 (1.4)	6.9 (1.0)	4.9 (0.7)
6	4.2 (1.2)	2.8 (1.1)	17.0 (2.5)	12.2 (1.8)	16.0 (1.3)	11.5 (0.9)	27.1 (5.4)	19.4 (3.9)	17.4 (1.0)	12.5 (0.7)	7.8 (1.4)	5.5 (1.0)
7	1.7 (0.3)	1.0 (0.2)	12.7 (5.5)	9.1 (3.9)	9.5 (5.7)	6.8 (4.1)	25.5 (3.4)	18.3 (2.4)	11.2 (5.9)	8.0 (4.2)	9.9 (3.0)	7.1 (2.1)
8	2.0 (0.6)	0.9 (0.3)	8.7 (1.6)	6.2 (1.2)	6.8 (0.6)	4.9 (0.4)	17.7 (2.9)	12.7 (2.1)	7.5 (0.7)	5.4 (0.5)	10.2 (4.2)	7.3 (3.0)
9	0.5 (0.4)	0.3 (0.1)	11.2 (3.0)	8.0 (2.2)	8.8 (1.0)	6.3 (0.7)	23.4 (3.3)	16.7 (2.3)	8.4 (0.9)	6.0 (0.6)	13.8 (6.6)	9.9 (4.7)
10	0.6 (0.2)	0.3 (0.1)	10.0 (1.2)	7.1 (0.9)	13.7 (1.5)	9.8 (1.1)	21.0 (3.3)	15.0 (2.3)	13.2 (2.4)	9.4 (1.7)	4.6 (1.5)	3.3 (1.1)
11	0.3 (0.1)	0.3 (0.2)	11.0 (1.7)	7.9 (1.2)	20.0 (1.1)	14.3 (0.8)	25.7 (4.7)	18.4 (3.3)	20.2 (1.4)	14.4 (1.0)	7.3 (1.4)	5.2 (1.0)
12	0.7 (0.1)	0.9 (0.5)	13.8 (0.8)	9.8 (0.6)	14.8 (9.5)	10.6 (6.8)	31.3 (2.9)	22.4 (2.1)	15.5 (9.5)	11.1 (6.8)	9.8 (4.9)	6.9 (3.5)
13	0.4 (0.2)	0.1 (0.2)	18.0 (1.6)	12.9 (1.1)	7.5 (1.0)	5.4 (0.7)	29.9 (2.9)	21.4 (2.1)	7.7 (0.5)	5.5 (0.4)	8.3 (2.8)	5.9 (2.0)
14	-0.2 (0.2)	-0.5 (0.2)	18.9 (6.2)	13.5 (4.5)	12.0 (1.1)	8.6 (0.8)	34.2 (14.1)	24.4 (10.1)	10.2 (0.8)	7.3 (0.6)	7.1 (0.7)	5.0 (0.5)
15	-0.5 (0.2)	-0.8 (0.1)	14.6 (2.2)	10.4 (1.6)	18.0 (1.3)	12.8 (0.9)	18.1 (4.1)	12.9 (2.9)	15.3 (2.6)	11.0 (1.9)	7.5 (1.5)	5.3 (1.1)
16	0.4 (0.2)	0.0 (0.3)	15.1 (2.0)	10.7 (1.5)	14.8 (8.2)	10.6 (5.9)	39.2 (12.1)	28.1 (8.7)	16.2 (6.6)	11.6 (4.7)	7.9 (3.2)	5.6 (2.3)
17	1.0 (0.7)	0.3 (0.6)	15.8 (1.4)	11.3 (1.0)	10.4 (1.0)	7.5 (0.7)	41.7 (4.1)	29.8 (3.0)	11.7 (0.9)	8.4 (0.6)	10.1 (1.7)	7.2 (1.2)
18	-0.1 (0.5)	-0.5 (0.1)	18.9 (2.3)	13.5 (1.9)	17.8 (2.2)	12.4 (1.4)	44.6 (5.5)	32.2 (4.3)	18.9 (2.4)	13.0 (1.2)	8.5 (2.0)	
19	-0.3 (0.1)	-0.6 (0.2)	21.8 (2.9)		14.5 (9.1)		57.2 (9.9)		17.1 (9.0)		6.2 (1.2)	
20	0.5 (0.7)	-0.7 (0.2)	27.4 (2.6)	19.5 (1.9)	9.9 (1.6)	7.1 (1.2)	64.0 (5.2)	45.8 (3.7)	11.9 (1.8)	8.5 (1.3)	6.3 (1.0)	4.5 (0.7)
21	2.3 (0.4)	1.5 (0.8)	36.1 (4.5)	25.7 (3.2)	16.1 (3.1)	11.6 (2.2)	80.5 (10.4)	57.7 (7.4)	29.5 (7.3)	21.2 (5.2)	7.9 (3.7)	5.6 (2.6)
22	0.1 (0.6)	1.1 (1.3)	28.2 (8.5)	20.1 (6.1)	21.1 (3.3)	15.1 (2.4)	62.1 (18.1)	44.4 (13.0)	53.3 (4.9)	38.2 (3.5)	11.2 (0.9)	8.0 (0.7)
23	-0.2 (0.2)	2.8 (1.3)	19.5 (3.7)	13.9 (2.7)	28.5 (5.2)	20.4 (3.8)	47.3 (8.5)	33.8 (6.1)				
24	-0.2 (0.2)	0.0 (0.5)	15.0 (2.8)	10.7 (2.0)	27.6 (4.9)	19.8 (3.5)	38.2 (5.1)	27.3 (3.7)	54.8 (7.0)	39.2 (5.0)	10.7 (1.0)	7.6 (0.7)
25	0.2 (0.7)	3.5 (1.4)	19.9 (1.5)	14.2 (1.1)	34.6 (6.9)	24.8 (5.0)	53.6 (13.3)	38.4 (9.6)	71.7 (6.0)	51.4 (4.3)	11.3 (2.5)	8.0 (1.8)
26	0.7 (0.3)	2.4 (0.9)	21.3 (2.6)	15.2 (1.8)	23.2 (10.4)	16.6 (7.4)	56.3 (5.9)	40.4 (4.2)	53.9 (14.4)	38.6 (10.4)	15.9 (3.2)	11.3 (2.3)
27	0.1 (0.2)	1.3 (0.8)	25.8 (2.2)	18.4 (1.6)	20.9 (2.8)	15.0 (2.0)	48.8 (1.5)	35.0 (1.1)	38.1 (1.6)	27.3 (1.1)	16.6 (2.4)	11.8 (1.7)
28	1.5 (0.5)	4.0 (0.6)	30.2 (6.1)	21.5 (4.4)	30.3 (3.5)	21.8 (2.5)	47.7 (6.3)	34.2 (4.5)	49.8 (2.8)	35.7 (2.0)	9.4 (3.9)	6.7 (2.8)
29	2.0 (1.1)	3.2 (1.7)	27.3 (3.4)	19.5 (2.5)	31.2 (4.5)	22.4 (3.2)	51.4 (11.9)	36.9 (8.6)	59.9 (4.2)	43.0 (3.0)	15.0 (3.1)	10.7 (2.2)
30	0.0 (0.6)	0.1 (1.2)	21.9 (3.0)	15.6 (2.1)	34.4 (5.7)	24.6 (4.0)	42.0 (31.9)	30.1 (22.9)	69.0 (9.5)	49.3 (6.9)	9.9 (2.3)	7.0 (1.6)
31	1.1 (0.7)	2.4 (2.3)	29.1 (5.7)	20.7 (4.1)	33.1 (9.9)	23.8 (7.1)	100.0 (6.3)	71.9 (4.5)	94.2 (9.1)	67.6 (6.5)		
Avg	0.84	0.91	18.2	13.5	16.6	12.7	40.2	30	26.6	20.6	8.91	6.78
n	31	31	31	28	31	28	31	28	30	27	28	24
SD	1.24	1.33	7.23	4.95	9.77	6.7	19.9	13.5	24.4	17.7	3.47	2.29
Min	-0.5	-0.8	6.9	6.2	1.2	1.4	8.5	12.7	1.1	1.6	2.5	2.7
Max	4.8	4.0	36.1	25.7	34.6	24.8	100.0	71.9	94.2	67.6	16.6	11.8

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for February, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.8 (0.6)	2.2 (2.4)	26.1 (8.4)	18.6 (6.0)	32.8 (4.1)	23.5 (3.0)	86.5 (24.6)	62.0 (17.6)	82.7 (13.0)	59.4 (9.3)	15.4 (8.0)	10.9 (5.7)
2	0.5 (0.4)	5.0 (2.0)	17.7 (2.3)	12.6 (1.6)	28.7 (6.8)	20.6 (4.9)	51.7 (5.5)	37.0 (3.9)	68.8 (4.8)	49.3 (3.4)	20.9 (7.3)	14.9 (5.2)
3	0.6 (0.3)	2.2 (1.1)	21.2 (2.7)	15.1 (1.9)	30.5 (2.2)	21.9 (1.5)	51.2 (2.0)	36.6 (1.4)	61.0 (3.3)	43.7 (2.4)	12.0 (8.1)	8.5 (5.8)
4	1.0 (1.1)	3.7 (3.2)	26.2 (5.1)	18.7 (3.6)	33.4 (5.5)	24.0 (3.9)	52.9 (5.5)	37.9 (4.0)	62.6 (11.1)	44.9 (7.9)	9.4 (9.3)	6.7 (6.7)
5	1.0 (0.9)	2.0 (1.3)	21.6 (4.0)	15.5 (2.9)	27.5 (4.8)	19.7 (3.5)	47.8 (8.7)	34.2 (6.3)	53.7 (6.1)	38.6 (4.4)	23.8 (8.8)	17.0 (6.3)
6	0.2 (0.1)	0.8 (0.3)	18.1 (3.8)	12.9 (2.7)	29.3 (4.3)	21.0 (3.1)	45.2 (6.4)	32.4 (4.6)	68.4 (17.2)	49.0 (12.4)	15.3 (11.5)	10.9 (8.2)
7	0.1 (0.1)	0.5 (0.8)	14.3 (1.5)	10.2 (1.1)	26.2 (11.5)	18.9 (8.3)	47.2 (7.7)	33.8 (5.5)	75.9 (28.0)	54.3 (20.0)	23.4 (6.5)	16.6 (4.6)
8	0.7 (0.2)	1.0 (0.4)										
9	0.1 (0.2)	-0.1 (0.4)							38.3 (5.8)	27.4 (4.1)		
10	-0.4 (0.2)	-0.7 (0.1)	14.7 (1.6)	10.5 (1.2)	25.4 (2.5)	18.1 (1.8)	21.5 (3.7)	15.3 (2.6)	12.3 (5.8)	8.8 (4.1)	8.1 (1.8)	5.8 (1.3)
11	0.0 (0.5)	1.2 (1.6)	20.2 (4.3)	14.4 (3.1)	33.2 (3.9)	23.8 (2.9)						
12	0.7 (0.3)	2.6 (2.0)										
13	0.1 (0.2)	5.6 (1.9)	23.9 (7.2)	17.0 (5.2)	47.7 (11.8)	34.3 (8.5)	65.4 (15.4)	46.9 (11.1)	109.0 (13.6)	78.2 (9.8)	21.6 (5.3)	15.3 (3.8)
14	0.9 (0.4)	8.6 (2.2)	15.7 (4.0)	11.2 (2.8)	42.8 (11.3)	30.8 (8.1)	46.6 (10.4)	33.4 (7.5)	109.0 (15.3)	78.2 (11.0)	23.1 (10.8)	16.4 (7.6)
15	0.2 (0.2)	1.6 (0.7)	11.6 (2.0)	8.3 (1.4)	30.9 (6.6)	22.2 (4.7)	30.2 (3.8)	21.6 (2.7)	77.2 (13.5)	55.5 (9.7)	21.7 (10.3)	15.4 (7.3)
16	0.4 (0.1)	3.5 (0.7)	11.6 (1.1)	8.3 (0.8)	31.4 (8.2)	22.5 (5.9)	31.0 (6.5)	22.2 (4.6)	73.3 (10.9)	52.7 (7.8)	18.7 (12.7)	13.3 (9.0)
17	0.5 (0.3)	1.9 (1.4)	19.2 (5.2)	13.7 (3.8)	33.5 (3.3)	24.1 (2.4)	40.2 (4.6)	28.8 (3.3)	68.9 (5.5)	49.6 (3.9)	17.0 (5.7)	12.1 (4.1)
18	0.0 (0.2)	-0.3 (0.1)	37.8 (3.7)	27.0 (2.7)	45.1 (5.0)	32.4 (3.6)	77.0 (14.1)	55.2 (10.1)	71.3 (4.6)	51.3 (3.3)	16.4 (4.0)	11.6 (2.8)
19	0.5 (0.8)	1.9 (2.7)	49.0 (7.7)	35.0 (5.5)	48.5 (8.3)	34.8 (5.9)	120.0 (18.6)	86.4 (13.3)	100.0 (15.0)	71.9 (10.8)	13.8 (1.8)	9.8 (1.3)
20	1.4 (1.2)	6.4 (1.9)	37.5 (13.3)	26.8 (9.5)	40.9 (11.1)	29.4 (8.0)	114.0 (25.4)	81.9 (18.3)	106.0 (19.0)	76.1 (13.7)	12.3 (5.6)	8.8 (4.0)
21	0.3 (0.4)	3.2 (1.8)	18.6 (7.7)	13.2 (5.5)	34.0 (8.5)	24.4 (6.1)	62.3 (21.5)	44.6 (15.4)	95.9 (13.0)	68.8 (9.3)	8.0 (6.3)	5.7 (4.4)
22	0.2 (0.1)	2.7 (1.3)	10.9 (2.2)	7.8 (1.5)	29.0 (7.0)	20.8 (5.0)	36.9 (7.8)	26.4 (5.6)	90.8 (16.9)	65.2 (12.2)	3.1 (1.3)	2.2 (0.9)
23	0.3 (0.2)	3.9 (0.8)										
24	0.3 (0.2)	3.7 (1.3)	12.9 (4.5)	9.2 (3.2)	34.6 (5.4)	24.8 (3.9)	30.6 (10.2)	21.9 (7.3)	64.4 (6.1)	46.2 (4.4)	23.8 (8.1)	16.9 (5.8)
25	0.1 (0.2)	2.7 (1.7)	19.1 (4.8)	13.7 (3.4)	33.6 (5.5)	24.1 (3.9)	44.2 (7.3)	31.6 (5.2)	61.7 (5.9)	44.2 (4.3)	14.8 (4.2)	10.5 (3.0)
26	0.3 (0.3)	1.9 (1.7)	13.3 (3.5)	9.5 (2.5)	29.5 (5.6)	21.2 (4.0)	38.0 (6.4)	27.1 (4.6)	67.1 (4.7)	48.2 (3.4)	5.9 (1.2)	4.2 (0.9)
27	0.2 (0.1)	2.9 (1.2)	11.3 (3.0)	8.0 (2.1)	28.1 (8.1)	20.2 (5.8)	46.5 (17.4)	33.2 (12.5)	75.9 (7.5)	54.5 (5.4)	11.5 (2.3)	8.2 (1.6)
28	-0.1 (0.1)	4.8 (0.9)										
29	-0.1 (0.1)	1.1 (1.3)	11.3 (1.5)	8.1 (1.1)	21.9 (5.8)	15.7 (4.2)	30.5 (4.5)	21.9 (3.2)	62.4 (16.7)	44.9 (12.0)	8.9 (2.9)	6.3 (2.1)
Avg	0.38	2.63	20.2	14.4	33.3	23.9	53	37.9	73.2	52.5	15.2	10.8
n	29	29	24	24	24	24	23	23	24	24	23	23
SD	0.39	2.03	9.4	6.71	6.82	4.92	24.8	17.8	21.7	15.6	6.09	4.33
Min	-0.4	-0.7	10.9	7.8	21.9	15.7	21.5	15.3	12.3	8.8	3.1	2.2
Max	1.4	8.6	49.0	35.0	48.5	34.8	120.0	86.4	109.0	78.2	23.8	17.0

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for March, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	-0.1 (0.1)	1.7 (1.3)	11.5 (1.5)	8.3 (1.1)	20.6 (2.3)	14.8 (1.7)	33.7 (4.4)	24.2 (3.2)	47.1 (5.3)	33.8 (3.8)	9.6 (3.3)	6.8 (2.3)
2	0.5 (0.7)	3.2 (0.8)	16.0 (2.6)	11.5 (1.9)	25.6 (2.0)	18.4 (1.4)	40.8 (6.6)	29.2 (4.7)	43.2 (3.5)	31.0 (2.5)	7.4 (3.0)	5.3 (2.2)
3	1.2 (1.3)	3.8 (2.7)	19.6 (3.4)	14.1 (2.4)	25.5 (5.9)	18.3 (4.2)	41.4 (5.6)	29.6 (4.0)	38.7 (6.3)	27.8 (4.5)	8.8 (1.9)	6.3 (1.4)
4	-0.1 (0.2)	-0.2 (0.3)	16.1 (3.5)	11.5 (2.5)	22.3 (3.4)	16.0 (2.4)	39.0 (5.6)	27.9 (4.0)	36.0 (3.3)	25.8 (2.4)	2.6 (1.5)	1.9 (1.1)
5	0.3 (0.6)	1.0 (1.0)	16.3 (2.0)	11.7 (1.5)	18.6 (5.2)	13.3 (3.7)	48.2 (9.3)	34.5 (6.7)	35.9 (6.9)	25.7 (5.0)	14.4 (4.4)	10.2 (3.1)
6	0.2 (0.3)	0.4 (1.0)	15.8 (2.3)	11.3 (1.6)	14.2 (3.3)	10.2 (2.3)	61.3 (3.9)	44.0 (2.8)	25.3 (3.2)	18.2 (2.3)	15.4 (3.2)	10.9 (2.3)
7	0.2 (0.2)	-0.1 (0.2)	16.6 (4.7)	11.9 (3.4)	14.1 (1.9)	10.1 (1.4)	54.3 (15.4)	38.9 (11.1)	25.0 (5.5)	17.9 (4.0)	2.7 (1.7)	1.9 (1.2)
8	-0.1 (0.3)	0.3 (0.6)	13.4 (2.5)	9.6 (1.8)	16.5 (3.3)	11.9 (2.3)	44.5 (4.7)	31.9 (3.4)	35.2 (3.2)	25.2 (2.3)	2.4 (0.9)	1.7 (0.6)
9	0.3 (0.4)	2.3 (1.0)	17.7 (2.6)	12.7 (1.8)	20.9 (1.5)	15.0 (1.0)	48.3 (5.8)	34.6 (4.2)	35.0 (2.7)	25.1 (1.9)	3.6 (1.1)	2.5 (0.8)
10	0.1 (0.1)	1.3 (0.6)	21.8 (4.9)	15.6 (3.5)	20.6 (5.2)	14.8 (3.7)	44.5 (7.3)	31.9 (5.3)	32.2 (4.3)	23.1 (3.1)	4.1 (1.6)	2.9 (1.1)
11	-0.2 (0.1)	0.2 (0.3)	21.5 (3.3)	15.4 (2.4)	18.0 (3.8)	12.9 (2.7)	50.9 (8.9)	36.5 (6.4)	32.3 (2.8)	23.2 (2.0)	5.9 (2.8)	4.2 (2.0)
12	0.4 (0.5)	0.5 (0.5)	21.4 (8.3)	15.3 (6.0)	13.5 (5.3)	9.6 (3.8)	51.0 (18.4)	36.5 (13.2)	25.6 (7.2)	18.4 (5.2)	3.7 (3.0)	2.6 (2.1)
13	-0.1 (0.1)	1.1 (0.4)	12.2 (1.4)	8.7 (1.0)	10.0 (1.6)	7.1 (1.1)	25.8 (4.0)	18.5 (2.9)	18.4 (4.3)	13.2 (3.1)	8.0 (5.9)	5.7 (4.2)
14	1.0 (1.0)	0.7 (0.7)	12.1 (1.9)	8.7 (1.3)	9.2 (1.7)	6.6 (1.2)	27.2 (4.5)	19.5 (3.3)	16.9 (1.7)	12.1 (1.2)	12.3 (6.3)	8.7 (4.5)
15	0.4 (0.2)	0.3 (0.4)	11.1 (2.0)	8.0 (1.5)	8.3 (1.7)	5.9 (1.2)	24.7 (2.5)	17.7 (1.8)	14.1 (0.7)	10.1 (0.5)	4.8 (2.4)	3.4 (1.7)
16	0.3 (0.1)	0.3 (0.2)	14.2 (1.5)	10.2 (1.1)	10.1 (0.9)	7.2 (0.6)	24.4 (1.4)	17.5 (1.0)	13.8 (0.9)	9.9 (0.7)	3.5 (1.9)	2.5 (1.4)
17	-0.2 (0.1)	-0.3 (0.1)	20.3 (2.4)	14.5 (1.7)	12.6 (2.2)	9.0 (1.6)	33.2 (4.6)	23.8 (3.3)	15.8 (1.6)	11.3 (1.2)	0.8 (0.2)	0.5 (0.1)
18	1.0 (1.1)	0.9 (1.3)	23.2 (2.0)	16.6 (1.5)	12.3 (1.8)	8.8 (1.3)	45.0 (6.6)	32.3 (4.7)	20.8 (3.4)	14.9 (2.4)	4.1 (3.7)	2.9 (2.7)
19	0.2 (0.2)	0.2 (0.3)	19.9 (4.2)	14.3 (3.0)	11.1 (2.8)	7.9 (2.0)	43.6 (7.1)	31.2 (5.1)	22.6 (2.8)	16.2 (2.0)	3.5 (0.9)	2.5 (0.6)
20	0.1 (0.3)	0.0 (0.2)	18.8 (3.6)	13.5 (2.6)	10.3 (2.5)	7.4 (1.8)	47.7 (8.6)	34.1 (6.1)	18.4 (3.3)	13.2 (2.4)	6.7 (4.0)	4.7 (2.9)
21	0.2 (0.4)	-0.2 (0.3)	16.3 (3.2)	11.7 (2.3)	10.0 (1.6)	7.2 (1.2)	46.2 (7.2)	33.1 (5.2)	19.9 (2.3)	14.3 (1.6)	2.0 (3.8)	1.4 (2.7)
22	0.2 (0.2)	0.1 (0.5)	13.3 (3.1)	9.6 (2.3)	10.0 (1.7)	7.1 (1.2)	34.1 (8.4)	24.4 (6.0)	19.1 (1.0)	13.7 (0.7)	5.4 (5.8)	3.8 (4.1)
23	0.1 (0.1)	0.5 (0.2)	14.9 (2.3)	10.7 (1.6)	13.5 (1.4)	9.7 (1.0)	27.0 (1.7)	19.3 (1.2)	20.0 (0.5)	14.3 (0.4)	8.6 (3.1)	6.1 (2.2)
24	0.3 (0.2)	0.9 (0.6)	18.2 (3.3)	13.0 (2.4)	15.7 (3.4)	11.3 (2.5)	33.2 (5.8)	23.8 (4.1)	23.0 (1.8)	16.5 (1.3)	8.4 (2.7)	6.0 (1.9)
25	0.6 (0.5)	1.4 (1.5)	18.1 (1.5)	13.0 (1.1)	14.2 (3.5)	10.2 (2.5)	41.0 (7.2)	29.4 (5.2)	24.9 (2.8)	17.9 (2.0)	6.1 (1.7)	4.3 (1.2)
26	0.0 (0.2)	-0.3 (0.3)	15.0 (3.1)	10.7 (2.2)	10.1 (2.2)	7.3 (1.6)	37.9 (7.0)	27.1 (5.0)	21.6 (2.8)	15.5 (2.0)	13.9 (6.4)	9.9 (4.5)
27	0.3 (0.4)	0.2 (0.4)	17.6 (8.7)	12.6 (6.2)	13.3 (6.4)	9.6 (4.6)	32.9 (5.8)	23.6 (4.1)	19.0 (3.1)	13.6 (2.2)	11.8 (16.7)	8.4 (11.9)
28	0.2 (0.1)	0.0 (0.3)	11.6 (2.0)	8.3 (1.4)	9.0 (1.8)	6.5 (1.3)	29.7 (2.6)	21.3 (1.9)	15.7 (1.3)	11.3 (0.9)	4.1 (1.6)	2.9 (1.2)
29	0.3 (0.2)	-0.2 (0.2)	14.4 (2.1)	10.3 (1.5)	9.8 (1.9)	7.0 (1.4)	39.9 (4.8)	28.6 (3.4)	16.5 (1.6)	11.8 (1.2)	1.9 (2.1)	1.4 (1.5)
30	0.4 (0.6)	0.2 (0.7)	20.3 (2.0)	14.6 (1.5)	11.9 (1.2)	8.5 (0.9)	42.4 (2.1)	30.4 (1.5)	17.6 (1.6)	12.6 (1.2)	3.3 (3.1)	2.3 (2.2)
31	2.2 (0.4)	2.9 (0.7)	25.4 (2.2)	18.2 (1.6)	12.8 (2.5)	9.2 (1.8)	47.3 (4.8)	34.0 (3.5)	21.1 (2.0)	15.2 (1.5)	7.4 (2.0)	5.3 (1.5)
Avg	0.32	0.74	16.9	12.1	14.3	10.3	40	28.7	24.9	17.8	6.35	4.52
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.48	1.04	3.63	2.61	4.83	3.47	9.19	6.59	8.85	6.36	3.91	2.78
Min	-0.2	-0.3	11.1	8.0	8.3	5.9	24.4	17.5	13.8	9.9	0.8	0.5
Max	2.2	3.8	25.4	18.2	25.6	18.4	61.3	44.0	47.1	33.8	15.4	10.9

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for April, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.4 (0.8)	0.2 (0.9)	24.8 (3.8)	17.8 (2.7)	11.6 (1.5)	8.3 (1.1)	61.5 (8.4)	44.1 (6.0)	20.7 (1.3)	14.9 (0.9)	7.3 (2.9)	5.2 (2.1)
2	0.8 (0.4)	1.1 (0.6)	25.0 (2.3)	17.9 (1.6)	11.2 (2.7)	8.0 (1.9)	56.4 (6.4)	40.4 (4.6)	21.8 (2.8)	15.6 (2.0)	8.3 (10.7)	5.9 (7.6)
3	0.1 (0.1)	-0.1 (0.1)										
4	0.7 (0.4)	0.2 (0.3)	25.9 (3.2)	18.6 (2.3)	10.2 (1.3)	7.3 (0.9)	51.1 (2.1)	36.7 (1.5)	20.2 (1.5)	14.5 (1.1)	6.3 (2.8)	4.5 (2.0)
5	0.4 (0.2)	0.2 (0.4)	25.9 (5.1)	18.6 (3.6)	10.4 (2.6)	7.5 (1.8)	54.2 (8.5)	38.8 (6.1)	19.2 (2.7)	13.8 (1.9)	11.0 (3.9)	7.8 (2.8)
6	0.4 (0.2)	0.0 (0.1)	25.0 (2.5)	18.0 (1.8)	10.7 (1.2)	7.7 (0.9)	45.1 (7.0)	32.3 (5.0)	17.2 (1.7)	12.3 (1.3)	5.2 (3.6)	3.7 (2.6)
7	0.7 (0.4)	0.4 (0.6)	23.4 (6.4)	16.7 (4.6)	11.1 (3.9)	8.0 (2.8)	39.3 (9.3)	28.2 (6.7)	18.2 (4.2)	13.0 (3.0)	13.8 (5.3)	9.9 (3.8)
8	0.8 (0.6)	0.5 (0.5)	19.7 (3.7)	14.1 (2.6)	9.2 (2.1)	6.6 (1.5)	39.4 (7.5)	28.2 (5.4)	15.4 (1.7)	11.0 (1.2)	5.1 (2.9)	3.7 (2.1)
9	0.2 (0.4)	-0.3 (0.2)	17.5 (2.9)	12.5 (2.1)	8.4 (1.3)	6.1 (0.9)	38.0 (4.2)	27.2 (3.0)	13.9 (1.3)	10.0 (0.9)	8.3 (4.5)	5.9 (3.2)
10	0.0 (0.1)	-0.4 (0.1)	19.0 (3.5)	13.6 (2.5)	10.1 (1.3)	7.3 (0.9)	49.7 (9.7)	35.7 (7.0)	18.4 (3.7)	13.2 (2.7)	1.0 (0.3)	0.7 (0.2)
11	1.0 (1.1)	1.8 (2.5)	17.1 (7.7)	12.3 (5.5)	10.3 (2.4)	7.4 (1.8)	39.2 (16.6)	28.2 (12.0)	18.8 (4.8)	13.5 (3.5)	7.8 (4.7)	5.5 (3.3)
12	-0.2 (0.1)	-0.6 (0.1)	13.8 (1.6)	9.9 (1.1)	10.1 (1.2)	7.3 (0.9)	30.0 (4.6)	21.5 (3.3)	18.4 (2.8)	13.2 (2.0)	12.5 (1.8)	8.9 (1.3)
13	0.3 (0.1)	0.2 (0.3)	19.6 (1.9)	14.0 (1.4)	14.2 (1.6)	10.2 (1.1)	37.8 (1.1)	27.1 (0.8)	23.4 (1.1)	16.8 (0.8)	11.3 (3.3)	8.1 (2.3)
14	0.7 (0.1)	0.6 (0.1)	22.5 (4.0)	16.1 (2.9)	16.1 (4.0)	11.5 (2.9)	38.5 (4.3)	27.6 (3.1)	26.7 (4.2)	19.1 (3.0)	10.1 (3.8)	7.2 (2.7)
15	0.3 (0.3)	1.5 (1.1)	18.7 (4.6)	13.4 (3.3)	11.1 (3.8)	8.0 (2.8)	40.2 (6.8)	28.8 (4.9)	22.6 (4.0)	16.2 (2.8)	14.5 (3.9)	10.4 (2.7)
16	1.4 (0.3)	2.1 (0.9)	13.2 (4.4)	9.5 (3.1)	6.5 (2.2)	4.6 (1.5)	31.8 (8.4)	22.8 (6.1)	13.2 (3.5)	9.5 (2.5)	7.1 (2.1)	5.0 (1.5)
17	0.7 (0.6)	0.8 (0.8)	9.5 (2.7)	6.8 (1.9)	5.6 (0.8)	4.0 (0.6)	20.9 (4.4)	14.9 (3.2)	8.0 (1.4)	5.7 (1.0)	11.3 (4.4)	8.0 (3.2)
18	0.6 (0.4)	1.9 (1.0)	7.7 (2.6)	5.5 (1.9)	5.9 (2.8)	4.2 (2.0)	15.4 (4.1)	11.0 (3.0)	9.7 (4.1)	7.0 (2.9)	6.7 (2.2)	4.8 (1.5)
19	-0.1 (0.1)	-0.3 (0.2)	6.8 (1.4)	4.9 (1.0)	4.2 (0.7)	3.0 (0.5)	12.9 (0.8)	9.3 (0.5)	5.6 (1.3)	4.0 (0.9)	6.4 (2.5)	4.6 (1.8)
20	-0.1 (0.1)	-0.1 (0.5)	9.8 (1.3)	7.0 (0.9)	7.5 (1.2)	5.4 (0.8)	15.4 (0.9)	11.1 (0.6)	8.5 (0.6)	6.1 (0.4)	4.4 (1.5)	3.1 (1.0)
21	0.0 (0.1)	-0.4 (0.1)	12.2 (2.6)	8.8 (1.9)	6.6 (4.2)	4.8 (3.0)	17.4 (3.1)	12.4 (2.2)	10.4 (3.3)	7.4 (2.4)	2.1 (0.4)	1.5 (0.3)
22	0.4 (0.3)	0.5 (0.7)	10.6 (3.2)	7.6 (2.3)	4.0 (0.7)	2.8 (0.5)	18.8 (3.5)	13.4 (2.5)	5.7 (1.5)	4.1 (1.1)	4.8 (2.2)	3.4 (1.6)
23	0.5 (0.4)	0.1 (0.3)										
24	-0.3 (0.1)	-0.3 (0.5)										
25	0.1 (0.4)	1.1 (0.7)	4.4 (1.7)	3.2 (1.2)	3.0 (1.5)	2.2 (1.1)	7.8 (2.0)	5.6 (1.4)	5.4 (0.9)	3.9 (0.6)	2.8 (1.2)	2.0 (0.9)
26	-0.6 (0.1)	-0.8 (0.1)	5.0 (0.8)	3.6 (0.6)	2.7 (0.8)	2.0 (0.5)	8.3 (2.8)	5.9 (2.0)	3.0 (0.6)	2.2 (0.4)	0.7 (0.4)	0.5 (0.3)
27	-0.4 (0.1)	-0.6 (0.1)	7.7 (1.1)	5.5 (0.8)	5.6 (0.9)	4.0 (0.6)	12.2 (0.6)	8.7 (0.5)	4.7 (0.8)	3.4 (0.6)	0.9 (0.4)	0.6 (0.3)
28	-0.4 (0.1)	-0.7 (0.1)	10.7 (1.5)	7.6 (1.1)	5.8 (2.5)	4.1 (1.8)	16.0 (1.3)	11.5 (0.9)	8.3 (2.1)	5.9 (1.5)	1.4 (0.6)	1.0 (0.5)
29	-0.3 (0.1)	-0.5 (0.1)	11.1 (2.0)	8.0 (1.4)	5.3 (0.8)	3.8 (0.6)	20.8 (2.6)	14.9 (1.8)	9.4 (1.1)	6.7 (0.8)	1.2 (0.4)	0.9 (0.3)
30	-0.1 (0.2)	-0.2 (0.4)	9.6 (2.7)	6.9 (1.9)	5.4 (2.6)	3.9 (1.8)	19.3 (3.4)	13.8 (2.4)	9.4 (1.5)	6.7 (1.0)	0.7 (0.6)	0.5 (0.4)
Avg	0.27	0.27	15.4	11	8.25	5.91	31	22.2	13.9	9.98	6.4	4.56
n	30	30	27	27	27	27	27	27	27	27	27	27
SD	0.47	0.77	6.87	4.93	3.35	2.4	15.7	11.2	6.61	4.74	4.17	2.97
Min	-0.6	-0.8	4.4	3.2	2.7	2.0	7.8	5.6	3.0	2.2	0.7	0.5
Max	1.4	2.1	25.9	18.6	16.1	11.5	61.5	44.1	26.7	19.1	14.5	10.4

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for May, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.0 (0.4)	0.2 (0.6)	6.5 (2.2)	4.6 (1.6)	4.0 (0.6)	2.9 (0.4)	13.2 (4.4)	9.5 (3.1)	7.5 (0.8)	5.4 (0.6)	2.0 (1.6)	1.4 (1.2)
2	0.9 (0.3)	1.6 (0.4)	6.3 (1.0)	4.5 (0.7)	6.1 (0.8)	4.4 (0.5)	11.8 (0.9)	8.5 (0.7)	8.1 (0.8)	5.8 (0.6)	2.7 (0.3)	2.0 (0.3)
3	-0.1 (0.5)	0.0 (0.8)	7.5 (1.8)	5.4 (1.3)	5.1 (2.8)	3.6 (2.0)	13.4 (2.1)	9.6 (1.5)	9.6 (2.2)	6.9 (1.6)	2.7 (0.8)	2.0 (0.6)
4	-0.4 (0.1)	-0.6 (0.1)	9.0 (1.2)	6.4 (0.9)	4.3 (0.6)	3.1 (0.4)	14.6 (1.4)	10.4 (1.0)	7.6 (0.7)	5.4 (0.5)	4.0 (0.7)	2.8 (0.5)
5	-0.3 (0.2)	-0.5 (0.3)	9.2 (3.1)	6.6 (2.2)	3.9 (2.1)	2.8 (1.5)	13.8 (3.8)	9.9 (2.7)	7.8 (1.5)	5.6 (1.0)	4.3 (1.2)	3.1 (0.8)
6	0.2 (0.3)	0.0 (0.2)	7.1 (3.4)	5.1 (2.4)	3.1 (1.1)	2.2 (0.8)	12.0 (3.3)	8.6 (2.4)	5.0 (1.3)	3.6 (0.9)	4.0 (0.7)	2.9 (0.5)
7	0.0 (0.2)	0.4 (0.9)	6.4 (2.0)	4.6 (1.4)	4.4 (1.1)	3.2 (0.8)	11.8 (1.8)	8.5 (1.3)	5.8 (0.8)	4.1 (0.6)	3.5 (1.0)	2.5 (0.8)
8	-0.1 (0.4)	-0.5 (0.3)	10.2 (1.3)	7.3 (0.9)	6.6 (0.9)	4.7 (0.6)	13.9 (1.3)	10.0 (1.0)	7.0 (1.2)	5.0 (0.9)	1.2 (1.9)	0.9 (1.4)
9	-0.1 (0.2)	-0.3 (0.3)	12.2 (2.2)	8.8 (1.5)	7.6 (0.6)	5.5 (0.5)	20.2 (3.8)	14.4 (2.7)	7.6 (1.8)	5.4 (1.3)	0.9 (1.0)	0.7 (0.7)
10	-0.1 (0.1)	-0.4 (0.2)	10.9 (4.4)	7.8 (3.2)	7.3 (2.6)	5.2 (1.8)	22.0 (4.0)	15.8 (2.9)	9.8 (2.1)	7.0 (1.5)	1.5 (0.8)	1.0 (0.5)
11	-0.3 (0.1)	-0.5 (0.1)	11.0 (1.5)	7.9 (1.1)	7.4 (0.8)	5.3 (0.5)	20.4 (1.0)	14.6 (0.7)	7.5 (1.0)	5.3 (0.7)	1.4 (1.0)	1.0 (0.7)
12	-0.2 (0.2)	-0.3 (0.3)	14.4 (2.8)	10.4 (2.0)	8.7 (1.8)	6.2 (1.3)	23.7 (1.2)	17.0 (0.8)	8.6 (1.2)	6.2 (0.9)	4.5 (4.3)	3.2 (3.1)
13	0.9 (0.5)	1.0 (1.1)	13.4 (3.4)	9.6 (2.4)	7.8 (1.1)	5.6 (0.8)	23.9 (3.0)	17.1 (2.2)	8.1 (2.1)	5.8 (1.5)	6.6 (5.2)	4.7 (3.7)
14	0.3 (0.4)	0.4 (0.7)	13.5 (2.4)	9.7 (1.7)	7.1 (2.6)	5.1 (1.9)	29.0 (2.7)	20.8 (2.0)	13.3 (1.6)	9.5 (1.1)	8.3 (1.7)	6.0 (1.2)
15	0.2 (0.1)	-0.4 (0.1)	16.9 (3.4)	12.1 (2.4)	7.5 (1.6)	5.4 (1.2)	33.3 (2.5)	23.9 (1.8)	13.1 (1.3)	9.4 (0.9)	2.2 (2.1)	1.6 (1.5)
16	-0.1 (0.2)	-0.3 (0.2)	13.6 (4.4)	9.8 (3.2)	6.4 (2.3)	4.6 (1.7)	33.2 (7.5)	23.8 (5.4)	13.7 (2.4)	9.8 (1.7)	6.3 (1.8)	4.5 (1.3)
17	-0.2 (0.1)	-0.4 (0.1)	9.3 (3.0)	6.6 (2.2)	4.4 (1.8)	3.2 (1.3)	23.8 (7.2)	17.1 (5.2)	9.1 (2.6)	6.5 (1.8)	7.4 (4.4)	5.3 (3.2)
18	-0.3 (0.2)	-0.3 (0.3)	13.1 (3.1)	9.4 (2.2)	6.6 (1.5)	4.8 (1.1)	20.4 (2.5)	14.6 (1.8)	8.6 (1.1)	6.2 (0.8)	5.3 (2.6)	3.8 (1.8)
19	0.3 (0.2)	0.2 (0.2)	18.3 (4.1)	13.1 (2.9)	10.4 (1.6)	7.5 (1.2)	27.6 (2.9)	19.8 (2.1)	13.3 (1.3)	9.5 (0.9)	7.5 (1.0)	5.4 (0.7)
20	0.7 (0.4)	0.4 (0.4)	16.9 (3.4)	12.1 (2.4)	9.5 (1.8)	6.8 (1.3)	28.2 (4.4)	20.2 (3.2)	16.5 (1.1)	11.8 (0.8)	6.7 (1.6)	4.8 (1.1)
21	0.6 (0.2)	0.7 (0.5)	15.0 (3.7)	10.7 (2.6)	7.8 (1.9)	5.6 (1.4)	29.3 (4.2)	21.0 (3.0)	13.7 (2.0)	9.8 (1.5)	6.7 (3.3)	4.8 (2.3)
22	-37.4 (43.2)	0.7 (0.3)	12.9 (2.8)	10.6 (1.8)	7.0 (1.4)	5.6 (0.8)	27.4 (3.9)	20.6 (2.4)	12.5 (1.0)	8.9 (0.7)	5.9 (3.7)	4.2 (2.6)
23	0.7 (0.2)	0.5 (0.3)	12.4 (2.3)	8.9 (1.7)	7.1 (1.6)	5.1 (1.1)	23.9 (2.3)	17.1 (1.7)	12.0 (1.8)	8.6 (1.3)	5.4 (2.4)	3.9 (1.7)
24	1.0 (0.2)	0.3 (0.0)	12.0 (2.7)	8.6 (2.0)	6.5 (2.0)	4.7 (1.4)	22.3 (3.9)	16.0 (2.8)	10.0 (1.6)	7.1 (1.2)	3.4 (2.6)	2.4 (1.8)
25	1.0 (0.3)	1.4 (0.9)	12.9 (2.3)	9.2 (1.7)	6.9 (1.3)	4.9 (0.9)	19.0 (4.0)	13.6 (2.9)	9.2 (1.0)	6.6 (0.7)	4.9 (1.8)	3.5 (1.3)
26	1.1 (0.5)	0.8 (0.6)	12.5 (4.0)	9.0 (2.9)	5.7 (2.1)	4.1 (1.5)	17.7 (4.9)	12.7 (3.5)	8.0 (2.0)	5.7 (1.5)	8.0 (1.4)	5.7 (1.0)
27	0.7 (0.1)	0.6 (0.2)	13.8 (2.1)	9.9 (1.5)	6.8 (0.6)	4.9 (0.4)	20.2 (1.3)	14.5 (1.0)	6.7 (1.2)	4.8 (0.8)	4.3 (2.1)	3.1 (1.5)
28	0.4 (0.1)	0.2 (0.1)	14.7 (4.6)	10.5 (3.3)	7.1 (1.7)	5.0 (1.2)	21.0 (3.0)	15.0 (2.1)	6.1 (1.0)	4.3 (0.7)	1.8 (1.1)	1.3 (0.8)
29	0.9 (0.3)	0.5 (0.1)	10.8 (4.1)	7.7 (2.9)	5.4 (1.8)	3.8 (1.3)	17.4 (4.0)	12.4 (2.8)	5.8 (0.9)	4.1 (0.6)	4.9 (1.9)	3.5 (1.4)
30	1.0 (0.2)	1.2 (0.6)	8.0 (2.5)	5.8 (1.8)	4.9 (1.4)	3.5 (1.0)	13.0 (2.6)	9.3 (1.9)	6.2 (1.1)	4.5 (0.8)	4.7 (0.9)	3.4 (0.6)
31	0.8 (0.1)	0.5 (0.2)	8.2 (2.0)	5.9 (1.5)	4.7 (1.3)	3.4 (1.0)	12.2 (2.9)	8.8 (2.1)	6.5 (1.3)	4.7 (0.9)	5.2 (0.8)	3.7 (0.6)
Avg	-0.9	0.23	11.6	8.34	6.38	4.59	20.4	14.7	9.15	6.56	4.46	3.18
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	6.67	0.58	3.2	2.32	1.66	1.2	6.42	4.64	2.89	2.07	2.1	1.5
Min	-37.4	-0.6	6.3	4.5	3.1	2.2	11.8	8.5	5.0	3.6	0.9	0.7
Max	1.1	1.6	18.3	13.1	10.4	7.5	33.3	23.9	16.5	11.8	8.3	6.0

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for June, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	1.3 (0.8)	1.0 (0.2)	10.7 (1.6)	7.7 (1.1)	6.4 (1.0)	4.6 (0.7)	14.2 (2.3)	10.2 (1.6)	7.3 (0.6)	5.2 (0.5)	5.1 (1.5)	3.6 (1.1)
2	1.6 (0.7)	0.9 (0.4)	11.0 (4.5)	7.9 (3.2)	6.1 (3.0)	4.4 (2.2)	15.4 (4.0)	11.1 (2.8)	6.7 (1.3)	4.8 (0.9)	5.6 (1.8)	4.0 (1.3)
3	1.3 (0.6)	0.7 (0.2)	10.5 (1.8)	7.5 (1.3)	6.3 (1.0)	4.5 (0.7)	18.5 (2.2)	13.3 (1.6)	8.4 (1.1)	6.0 (0.8)	3.6 (1.6)	2.6 (1.1)
4	1.3 (0.2)	1.2 (0.3)	11.0 (3.2)	7.9 (2.3)	5.9 (1.8)	4.3 (1.3)	18.3 (5.1)	13.2 (3.7)	9.5 (1.8)	6.8 (1.3)	6.5 (2.5)	4.7 (1.8)
5	1.5 (0.4)	1.1 (0.1)	9.2 (2.9)	6.6 (2.1)	5.2 (1.5)	3.8 (1.1)	14.2 (3.3)	10.3 (2.4)	8.1 (1.4)	5.8 (1.0)	7.5 (1.9)	5.4 (1.4)
6	1.3 (0.4)	1.7 (0.7)	6.7 (1.9)	4.8 (1.3)	5.1 (1.5)	3.7 (1.1)	12.9 (3.2)	9.3 (2.3)	7.6 (1.7)	5.5 (1.2)	6.3 (0.9)	4.6 (0.7)
7	1.0 (0.2)	0.9 (0.2)	5.8 (0.4)	4.2 (0.3)	3.9 (0.7)	2.8 (0.5)	10.0 (1.4)	7.2 (1.0)	6.0 (0.8)	4.4 (0.6)	7.1 (1.1)	5.1 (0.8)
8	1.1 (0.2)	0.9 (0.1)	6.8 (0.9)	4.9 (0.6)	4.5 (0.4)	3.3 (0.3)	8.7 (0.7)	6.3 (0.5)	5.6 (0.6)	4.0 (0.4)	6.6 (1.0)	4.8 (0.7)
9	1.2 (0.1)	0.8 (0.1)	7.4 (1.5)	5.3 (1.1)	4.3 (0.6)	3.1 (0.5)	10.3 (1.6)	7.4 (1.1)	5.8 (0.8)	4.2 (0.6)	6.7 (1.2)	4.8 (0.9)
10	0.8 (0.1)	0.9 (0.3)	7.9 (2.6)	5.7 (1.9)	3.3 (1.0)	2.4 (0.7)	11.7 (1.7)	8.4 (1.2)	6.1 (0.8)	4.4 (0.6)	6.5 (1.6)	4.7 (1.1)
11	1.1 (0.3)	0.6 (0.1)	6.0 (2.4)	4.3 (1.7)	4.0 (1.9)	2.9 (1.3)	12.8 (5.4)	9.2 (3.9)	6.3 (1.9)	4.5 (1.3)	7.7 (2.4)	5.5 (1.7)
12	1.2 (0.2)	0.9 (0.2)	4.9 (1.2)	3.5 (0.8)	3.7 (1.1)	2.7 (0.8)	7.9 (1.4)	5.7 (1.0)	4.6 (0.3)	3.3 (0.2)	4.3 (1.9)	3.1 (1.4)
13	1.0 (0.1)	1.3 (0.5)	6.1 (1.0)	4.4 (0.7)	4.7 (0.6)	3.4 (0.4)	8.6 (1.3)	6.2 (0.9)	6.5 (0.8)	4.7 (0.6)	5.4 (0.7)	3.9 (0.5)
14	0.9 (0.2)	1.1 (0.4)	7.0 (2.5)	5.0 (1.8)	5.0 (1.9)	3.6 (1.4)	10.4 (2.7)	7.4 (2.0)	7.9 (2.2)	5.7 (1.6)	6.3 (1.6)	4.5 (1.1)
15	0.7 (0.2)	0.6 (0.3)	6.9 (1.5)	5.0 (1.0)	4.9 (1.3)	3.5 (1.0)	8.5 (2.0)	6.1 (1.4)	5.8 (1.1)	4.2 (0.8)	4.9 (1.3)	3.5 (1.0)
16	0.5 (0.2)	0.4 (0.3)	8.7 (1.9)	6.2 (1.4)	6.5 (1.9)	4.7 (1.4)	11.9 (1.3)	8.5 (0.9)	7.8 (1.2)	5.6 (0.9)	3.4 (0.8)	2.4 (0.6)
17	0.4 (0.1)	0.2 (0.1)	8.1 (1.9)	5.8 (1.4)	6.0 (1.9)	4.3 (1.3)	12.3 (1.4)	8.8 (1.0)	7.8 (0.8)	5.6 (0.6)	3.6 (1.5)	2.6 (1.1)
18	0.5 (0.2)	0.3 (0.2)	6.7 (2.0)	4.8 (1.5)	5.0 (1.5)	3.6 (1.1)	10.8 (2.4)	7.8 (1.7)	7.0 (1.2)	5.0 (0.9)	2.7 (1.0)	1.9 (0.7)
19	0.9 (0.6)	0.7 (0.5)	6.0 (1.5)	4.3 (1.1)	4.6 (1.4)	3.3 (1.0)	9.3 (1.6)	6.7 (1.2)	5.8 (1.0)	4.2 (0.7)	2.9 (0.6)	2.1 (0.4)
20	0.8 (0.3)	0.3 (0.1)	4.2 (2.0)	3.0 (1.4)	3.4 (1.9)	2.4 (1.3)	6.6 (1.9)	4.7 (1.3)	4.3 (0.7)	3.1 (0.5)	4.5 (1.5)	3.2 (1.1)
21	0.5 (0.0)	0.3 (0.2)	4.2 (0.7)	3.0 (0.5)	3.2 (0.6)	2.3 (0.4)	5.8 (0.7)	4.1 (0.5)	4.2 (0.6)	3.0 (0.4)	3.5 (0.8)	2.5 (0.6)
22	0.6 (0.1)	0.3 (0.1)	6.6 (1.2)	4.7 (0.9)	5.3 (1.1)	3.8 (0.8)	7.5 (1.1)	5.4 (0.8)	4.8 (0.4)	3.4 (0.3)	2.9 (0.7)	2.1 (0.5)
23	0.6 (0.1)	0.5 (0.2)	9.0 (1.7)	6.5 (1.2)	6.5 (1.5)	4.7 (1.1)	10.6 (1.4)	7.6 (1.0)	7.2 (1.3)	5.1 (0.9)	2.8 (0.5)	2.0 (0.3)
24	1.0 (0.2)	1.9 (1.7)	8.6 (2.2)	6.2 (1.6)	6.6 (1.6)	4.7 (1.1)	12.2 (1.9)	8.8 (1.4)	8.5 (1.1)	6.1 (0.8)	3.4 (1.2)	2.5 (0.8)
25	1.2 (0.1)	1.0 (0.1)	7.0 (1.8)	5.1 (1.3)	6.7 (1.4)	4.9 (1.0)	11.2 (2.2)	8.1 (1.5)	9.5 (0.5)	6.8 (0.3)	4.0 (1.0)	2.9 (0.7)
26	1.3 (0.2)	0.9 (0.2)	6.4 (1.4)	4.7 (1.2)	5.4 (1.8)	4.0 (1.4)	10.4 (0.7)	7.5 (0.5)	8.3 (1.1)	6.0 (0.8)	8.6 (2.0)	6.2 (1.5)
27	1.3 (0.2)	1.1 (0.2)	5.8 (1.9)	4.2 (1.4)	5.1 (1.2)	3.7 (0.8)	12.8 (1.1)	9.2 (0.8)	9.0 (0.7)	6.5 (0.5)	11.2 (1.9)	8.1 (1.4)
28	0.9 (0.3)	0.7 (0.4)	5.3 (1.6)	3.8 (1.2)	4.3 (2.1)	3.1 (1.5)	11.5 (3.6)	8.3 (2.6)	8.2 (3.4)	5.9 (2.5)	8.4 (1.0)	6.1 (0.7)
29												
30												
Avg	0.99	0.82	7.3	5.25	5.07	3.65	11.3	8.1	6.94	4.99	5.43	3.9
n	28	28	28	28	28	28	28	28	28	28	28	28
SD	0.33	0.4	1.9	1.36	1.05	0.75	3.01	2.17	1.49	1.07	2.09	1.51
Min	0.4	0.2	4.2	3.0	3.2	2.3	5.8	4.1	4.2	3.0	2.7	1.9
Max	1.6	1.9	11.0	7.9	6.7	4.9	18.5	13.3	9.5	6.8	11.2	8.1

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for July, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24	0.6 (0.2)	0.5 (0.4)	4.6 (1.9)	3.3 (1.4)	4.3 (1.9)	3.1 (1.4)	9.6 (2.8)	6.9 (2.0)	9.0 (2.3)	6.5 (1.7)	5.2 (0.7)	3.7 (0.5)
25	1.0 (0.3)	0.6 (0.3)	4.2 (1.6)	3.0 (1.1)	4.1 (1.5)	2.9 (1.1)	7.5 (1.3)	5.4 (0.9)	7.4 (1.2)	5.3 (0.9)	4.8 (0.8)	3.4 (0.5)
26	1.6 (0.6)	1.3 (0.6)	4.5 (1.3)	3.3 (0.9)	3.9 (1.1)	2.8 (0.8)	7.5 (1.6)	5.4 (1.1)	8.2 (1.0)	5.9 (0.7)	4.4 (0.6)	3.1 (0.5)
27	0.8 (0.5)	0.5 (0.5)	5.5 (1.5)	4.0 (1.1)	5.2 (1.3)	3.7 (1.0)	7.2 (1.6)	5.2 (1.2)	7.7 (1.3)	5.5 (0.9)	4.1 (0.4)	2.9 (0.3)
28	1.6 (0.7)	0.8 (0.4)	6.2 (2.1)	4.5 (1.5)	5.4 (1.9)	3.9 (1.3)	9.1 (0.8)	6.5 (0.5)	9.3 (1.2)	6.7 (0.8)	4.4 (1.3)	3.1 (0.9)
29	2.5 (1.1)	1.2 (0.4)	5.5 (2.5)	4.0 (1.8)	4.5 (1.6)	3.2 (1.1)	9.8 (1.9)	7.1 (1.4)	9.5 (2.0)	6.8 (1.4)	6.0 (0.7)	4.3 (0.5)
30	0.9 (0.1)	0.7 (0.1)	4.4 (1.4)	3.2 (1.0)	4.1 (1.1)	3.0 (0.8)	8.0 (1.3)	5.8 (0.9)	9.1 (1.1)	6.6 (0.8)	4.9 (0.5)	3.5 (0.4)
31	1.1 (0.2)	1.2 (0.4)	5.3 (1.6)	3.8 (1.2)	4.7 (1.2)	3.4 (0.9)	9.3 (2.0)	6.7 (1.4)	10.1 (1.7)	7.3 (1.3)	4.9 (0.6)	3.5 (0.4)
Avg	1.26	0.84	5.05	3.63	4.51	3.24	8.5	6.11	8.78	6.32	4.82	3.47
n	8	8	8	8	8	8	8	8	8	8	8	8
SD	0.56	0.33	0.66	0.47	0.49	0.35	0.99	0.72	0.88	0.64	0.57	0.41
Min	0.6	0.5	4.2	3.0	3.9	2.8	7.2	5.2	7.4	5.3	4.1	2.9
Max	2.5	1.3	6.2	4.5	5.4	3.9	9.8	7.1	10.1	7.3	6.0	4.3

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for August, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	1.6 (0.5)	0.9 (0.3)	5.4 (1.8)	3.9 (1.3)	4.5 (1.3)	3.3 (1.0)	12.2 (3.0)	8.8 (2.2)	10.7 (2.3)	7.8 (1.6)	6.6 (1.3)	4.8 (1.0)
2	2.4 (0.5)	2.6 (0.7)	3.3 (0.7)	2.4 (0.5)	3.3 (0.6)	2.4 (0.4)	7.4 (1.6)	5.3 (1.1)	10.6 (0.9)	7.7 (0.6)	6.5 (1.3)	4.7 (0.9)
3	1.6 (0.7)	0.9 (0.3)	3.1 (0.3)	2.2 (0.2)	3.2 (0.6)	2.3 (0.5)	4.6 (0.2)	3.3 (0.2)	7.2 (1.2)	5.2 (0.9)	4.6 (0.9)	3.3 (0.7)
4	1.7 (0.6)	2.2 (1.6)	3.6 (0.7)	2.6 (0.5)	3.6 (1.1)	2.6 (0.8)	6.7 (1.7)	4.8 (1.2)	9.3 (2.9)	6.7 (2.1)	5.6 (1.3)	4.0 (0.9)
5	1.9 (1.0)	2.5 (0.6)										
6	1.6 (0.7)	2.2 (0.8)	5.9 (2.2)	4.3 (1.6)	5.4 (1.4)	3.9 (1.0)	9.6 (2.7)	6.9 (2.0)	14.6 (3.5)	10.5 (2.5)	8.2 (1.4)	5.9 (1.0)
7	0.9 (0.2)	0.9 (0.4)	4.6 (1.9)	3.3 (1.4)	4.8 (1.9)	3.5 (1.4)	11.1 (2.4)	8.0 (1.7)	13.5 (2.6)	9.7 (1.9)		
8	0.7 (0.1)	1.1 (0.3)	5.1 (1.8)	3.6 (1.3)	5.6 (1.9)	4.0 (1.3)	9.9 (2.6)	7.1 (1.9)	12.0 (2.4)	8.6 (1.7)	5.1 (1.0)	3.7 (0.7)
9	0.5 (0.2)	0.3 (0.1)	4.6 (1.6)	3.3 (1.2)	5.3 (1.9)	3.8 (1.4)	10.4 (1.6)	7.5 (1.2)	10.3 (2.3)	7.4 (1.7)	6.1 (0.8)	4.3 (0.6)
10	0.5 (0.2)	0.5 (0.1)	6.7 (1.2)	4.8 (0.9)	8.2 (1.3)	5.9 (1.0)	10.9 (2.2)	7.9 (1.6)	12.0 (1.5)	8.6 (1.1)	3.5 (0.8)	2.5 (0.6)
11	1.2 (0.4)	1.4 (0.7)	8.6 (2.7)	6.2 (1.9)	9.4 (3.4)	6.7 (2.4)	13.1 (1.5)	9.4 (1.1)	13.0 (2.2)	9.3 (1.6)	4.7 (1.8)	3.4 (1.3)
12	0.9 (0.2)	1.1 (0.7)	7.6 (2.8)	5.4 (2.0)	7.9 (2.5)	5.6 (1.8)	12.9 (2.3)	9.2 (1.6)	11.1 (2.1)	8.0 (1.5)	6.5 (2.1)	4.6 (1.5)
13	1.6 (0.6)	1.1 (0.2)	7.2 (1.8)	5.2 (1.3)	7.4 (2.5)	5.3 (1.8)	12.3 (1.9)	8.8 (1.4)	11.2 (2.8)	8.0 (2.0)	5.3 (1.3)	3.8 (0.9)
14	1.6 (0.3)	1.1 (0.3)	7.5 (2.3)	5.4 (1.6)	7.7 (2.2)	5.6 (1.6)	12.9 (2.5)	9.3 (1.8)	10.1 (2.2)	7.2 (1.6)	4.0 (0.7)	2.8 (0.5)
15	0.9 (0.2)	0.8 (0.4)	6.7 (2.7)	4.8 (2.0)	7.3 (2.7)	5.2 (1.9)	12.5 (2.2)	9.0 (1.6)	10.1 (2.7)	7.3 (1.9)	2.7 (1.1)	1.9 (0.8)
16	0.7 (0.2)	1.0 (0.4)	5.6 (1.9)	4.0 (1.4)	6.4 (2.1)	4.6 (1.5)	10.9 (2.9)	7.8 (2.1)	10.2 (1.4)	7.3 (1.0)	4.6 (1.4)	3.3 (1.0)
17	0.5 (0.1)	0.2 (0.1)	6.6 (1.7)	4.8 (1.2)	7.7 (1.8)	5.5 (1.3)	8.8 (1.7)	6.3 (1.2)	9.6 (1.4)	6.9 (1.0)	4.6 (0.4)	3.3 (0.3)
18	0.6 (0.1)	0.3 (0.1)	6.8 (2.8)	4.9 (2.0)	8.4 (3.8)	6.0 (2.8)	9.9 (1.8)	7.1 (1.3)	11.7 (2.3)	8.4 (1.6)	4.9 (0.5)	3.5 (0.3)
19	1.2 (0.6)	1.5 (1.4)	6.2 (2.4)	4.5 (1.7)	7.3 (2.7)	5.2 (1.9)	10.7 (2.7)	7.7 (2.0)	10.5 (3.1)	7.5 (2.2)	3.3 (1.4)	2.4 (1.0)
20	0.3 (0.1)	0.1 (0.1)	5.3 (2.4)	3.8 (1.7)	6.4 (2.8)	4.6 (2.0)	8.2 (2.3)	5.9 (1.6)	6.8 (1.4)	4.9 (1.0)	0.9 (0.2)	0.7 (0.1)
21	1.0 (0.8)	0.5 (0.4)	4.6 (1.3)	3.3 (0.9)	5.3 (1.8)	3.8 (1.3)	6.8 (0.6)	4.9 (0.4)	6.6 (1.3)	4.8 (0.9)	2.3 (1.6)	1.6 (1.2)
22	1.2 (0.2)	0.9 (0.2)	5.0 (1.4)	3.6 (1.0)	5.4 (1.4)	3.9 (1.0)	7.4 (1.0)	5.3 (0.7)	8.1 (0.9)	5.8 (0.6)	5.3 (2.0)	3.8 (1.4)
23	1.4 (0.2)	0.8 (0.1)	5.8 (2.3)	4.2 (1.6)	5.9 (2.5)	4.2 (1.8)	8.9 (1.5)	6.4 (1.1)	9.4 (1.6)	6.8 (1.2)	6.8 (1.0)	4.9 (0.7)
24	1.1 (0.3)	1.1 (0.4)	6.5 (1.5)	4.7 (1.1)	7.6 (2.0)	5.5 (1.4)	8.3 (1.9)	6.0 (1.4)	10.1 (1.5)	7.3 (1.1)	3.7 (1.4)	2.7 (1.0)
25	0.6 (0.2)	0.2 (0.1)	7.9 (2.8)	5.6 (2.0)	10.7 (3.5)	7.7 (2.5)	8.4 (2.1)	6.0 (1.5)	9.1 (2.5)	6.5 (1.8)	1.3 (0.4)	0.9 (0.3)
26	0.3 (0.1)	0.0 (0.1)	6.7 (2.9)	4.8 (2.1)	8.8 (3.1)	6.3 (2.2)	7.7 (1.2)	5.5 (0.9)	8.2 (1.8)	5.8 (1.3)	0.7 (0.2)	0.5 (0.1)
27	0.9 (0.4)	0.5 (0.2)	5.8 (2.3)	4.2 (1.6)	7.4 (2.7)	5.3 (2.0)	8.8 (2.2)	6.3 (1.6)	8.0 (2.0)	5.7 (1.4)	1.3 (0.4)	0.9 (0.3)
28	0.7 (0.3)	0.5 (0.2)	5.6 (1.4)	4.0 (1.0)	7.4 (2.0)	5.3 (1.4)	7.7 (1.2)	5.5 (0.8)	8.8 (1.9)	6.4 (1.4)	3.4 (1.3)	2.4 (0.9)
29	1.2 (0.2)	1.5 (0.6)	5.2 (1.8)	3.8 (1.3)	6.2 (2.3)	4.5 (1.7)	8.4 (2.2)	6.1 (1.6)	10.5 (2.2)	7.5 (1.6)	3.5 (0.8)	2.5 (0.6)
30	1.2 (0.3)	1.8 (1.0)	4.7 (1.9)	3.4 (1.4)	5.6 (2.2)	4.0 (1.6)	7.7 (2.5)	5.5 (1.8)	8.5 (1.9)	6.1 (1.4)	2.4 (1.0)	1.7 (0.7)
31	0.5 (0.2)	0.5 (0.4)	4.4 (1.4)	3.1 (1.0)	6.0 (1.8)	4.3 (1.3)	5.6 (1.6)	4.0 (1.1)	6.4 (0.8)	4.6 (0.5)	2.1 (0.8)	1.5 (0.6)
Avg	1.05	0.99	5.75	4.13	6.53	4.69	9.36	6.72	9.94	7.14	4.15	2.98
n	31	31	30	30	30	30	30	30	30	30	29	29
SD	0.51	0.68	1.33	0.95	1.74	1.25	2.23	1.6	1.97	1.42	1.9	1.37
Min	0.3	0.0	3.1	2.2	3.2	2.3	4.6	3.3	6.4	4.6	0.7	0.5
Max	2.4	2.6	8.6	6.2	10.7	7.7	13.1	9.4	14.6	10.5	8.2	5.9

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for September, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.4 (0.2)	0.2 (0.1)	4.5 (2.0)	3.2 (1.4)	6.3 (3.4)	4.5 (2.5)	5.8 (1.3)	4.1 (0.9)	6.7 (1.1)	4.8 (0.8)	1.3 (0.7)	0.9 (0.5)
2	1.2 (0.5)	1.0 (0.7)	4.2 (1.3)	3.0 (0.9)	5.0 (1.7)	3.6 (1.2)	6.3 (1.2)	4.6 (0.9)	6.7 (0.9)	4.9 (0.7)	2.8 (1.6)	2.0 (1.1)
3	1.2 (0.4)	1.2 (0.3)	4.4 (1.1)	3.2 (0.8)	4.8 (1.0)	3.4 (0.7)	6.4 (0.8)	4.6 (0.6)	8.1 (1.1)	5.8 (0.8)	3.8 (0.5)	2.7 (0.4)
4	0.9 (0.2)	1.2 (1.1)	6.4 (1.1)	4.6 (0.8)	6.8 (1.4)	4.9 (1.0)	8.2 (0.6)	5.9 (0.5)	8.3 (1.0)	5.9 (0.7)	2.0 (0.4)	1.4 (0.3)
5	0.8 (0.2)	1.6 (0.9)	7.0 (1.7)	5.1 (1.2)	7.7 (2.2)	5.6 (1.6)	13.4 (1.9)	9.6 (1.4)	12.8 (2.2)	9.2 (1.6)	2.9 (0.5)	2.1 (0.4)
6	0.7 (0.3)	1.0 (0.3)	6.7 (1.9)	4.8 (1.3)	7.5 (1.4)	5.4 (1.0)	12.8 (2.3)	9.2 (1.6)	10.5 (2.7)	7.5 (1.9)	4.7 (2.4)	3.4 (1.7)
7	0.5 (0.1)	0.3 (0.1)	8.6 (1.3)	6.2 (0.9)	11.1 (1.8)	8.0 (1.3)	12.0 (1.1)	8.6 (0.8)	12.9 (3.0)	9.3 (2.1)	5.3 (1.0)	3.8 (0.7)
8	0.7 (0.1)											
9	0.8 (0.0)											
10	0.6 (0.1)											
11	0.9 (0.6)	0.8 (0.8)	6.4 (2.3)	4.6 (1.7)	7.7 (2.4)	5.5 (1.7)	10.0 (2.1)	7.1 (1.5)	8.8 (1.6)	6.3 (1.1)	4.6 (3.0)	3.3 (2.1)
12	1.2 (0.4)	1.0 (0.4)	7.0 (0.9)	5.1 (0.6)	7.8 (1.9)	5.6 (1.4)	12.1 (1.1)	8.8 (0.8)	13.6 (0.5)	9.8 (0.3)	8.7 (2.2)	6.3 (1.6)
13	1.5 (0.3)	1.3 (0.3)	6.5 (2.6)	4.7 (1.9)	7.5 (3.2)	5.4 (2.3)	13.0 (3.1)	9.4 (2.2)	13.2 (3.7)	9.5 (2.7)	7.8 (1.4)	5.6 (1.0)
14	1.2 (0.4)	1.3 (0.6)	7.7 (2.1)	5.5 (1.5)	10.6 (3.4)	7.6 (2.4)	11.2 (1.2)	8.1 (0.9)	13.5 (1.7)	9.7 (1.2)	6.9 (2.8)	5.0 (2.0)
15	1.0 (0.3)	0.9 (0.5)	11.8 (2.8)	8.5 (2.0)	15.2 (4.4)	10.9 (3.2)	18.5 (2.6)	13.3 (1.8)	19.3 (2.5)	13.9 (1.8)	6.0 (1.8)	4.3 (1.3)
16	1.2 (0.4)	1.0 (0.3)	9.8 (3.0)	7.1 (2.1)	11.9 (2.6)	8.6 (1.9)	18.5 (2.8)	13.3 (2.0)	19.4 (4.7)	13.9 (3.4)	10.7 (5.9)	7.6 (4.2)
17	0.6 (0.1)	0.5 (0.3)	7.3 (3.4)	5.2 (2.4)	10.0 (4.1)	7.2 (2.9)	14.6 (3.8)	10.5 (2.8)	15.4 (4.5)	11.0 (3.3)	15.0 (5.3)	10.7 (3.8)
18	0.6 (0.1)	0.3 (0.1)										
19	1.0 (0.4)	0.6 (0.3)	6.3 (2.3)	4.5 (1.6)	7.1 (2.2)	5.1 (1.6)	9.9 (1.7)	7.1 (1.2)	9.7 (2.2)	6.9 (1.6)	5.3 (2.4)	3.8 (1.7)
20	1.7 (0.7)	1.2 (0.6)	5.6 (1.8)	4.0 (1.3)	6.7 (1.9)	4.8 (1.3)	10.2 (1.9)	7.3 (1.4)	8.9 (1.7)	6.4 (1.2)	13.1 (7.1)	9.4 (5.1)
21	1.0 (0.2)	1.1 (0.6)	6.8 (1.5)	4.9 (1.1)	9.4 (1.9)	6.8 (1.4)	9.2 (2.0)	6.6 (1.5)	10.2 (0.7)	7.3 (0.5)	8.9 (5.7)	6.4 (4.1)
22	0.7 (0.3)	0.7 (0.4)	7.4 (2.4)	5.3 (1.7)	11.1 (3.8)	8.0 (2.7)	9.5 (1.6)	6.8 (1.2)	10.7 (1.7)	7.7 (1.2)	2.4 (0.5)	1.7 (0.3)
23	1.0 (0.7)	0.9 (0.3)	6.6 (2.8)	4.7 (2.0)	8.6 (2.6)	6.1 (1.9)	10.1 (3.3)	7.2 (2.4)	9.4 (1.7)	6.7 (1.2)	4.8 (2.3)	3.4 (1.7)
24	1.5 (0.8)	0.8 (0.9)	5.3 (2.2)	3.8 (1.6)	7.9 (3.2)	5.7 (2.3)	8.7 (2.4)	6.2 (1.7)	8.8 (1.9)	6.3 (1.4)	7.1 (3.1)	5.1 (2.3)
25	1.2 (0.8)	0.5 (0.2)	4.6 (1.5)	3.3 (1.1)	6.3 (2.1)	4.5 (1.5)	6.8 (1.5)	4.9 (1.1)	7.0 (1.7)	5.0 (1.2)	4.7 (2.5)	3.3 (1.8)
26	0.8 (0.1)	0.2 (0.0)	4.8 (1.5)	3.5 (1.1)	5.9 (2.0)	4.2 (1.4)	6.0 (1.0)	4.3 (0.7)	6.1 (1.1)	4.3 (0.8)	1.9 (0.6)	1.3 (0.4)
27	0.9 (0.1)	0.5 (0.2)	5.3 (1.4)	3.8 (1.0)	5.8 (1.6)	4.2 (1.1)	7.1 (1.1)	5.1 (0.8)	6.8 (1.5)	4.9 (1.1)	3.7 (0.9)	2.6 (0.6)
28	0.8 (0.1)	0.6 (0.2)	7.1 (1.4)	5.1 (1.0)	6.9 (2.8)	5.0 (2.0)	8.7 (1.1)	6.3 (0.8)	6.3 (1.1)	4.5 (0.8)	4.9 (1.0)	3.5 (0.7)
29	0.8 (0.3)	0.3 (0.1)	8.7 (2.7)	6.3 (1.9)	8.1 (4.4)	5.8 (3.1)	11.6 (1.6)	8.3 (1.1)	8.6 (0.9)	6.2 (0.7)	4.0 (1.8)	2.9 (1.3)
30	0.4 (0.2)	0.1 (0.1)	9.0 (1.7)	6.4 (1.2)	4.7 (3.3)	3.4 (2.4)	14.4 (2.8)	10.3 (2.0)	7.4 (2.4)	5.3 (1.7)	3.7 (0.7)	2.6 (0.5)
Avg	0.92	0.79	6.76	4.85	8.02	5.75	10.6	7.59	10.3	7.42	5.64	4.04
n	30	27	26	26	26	26	26	26	26	26	26	26
SD	0.32	0.39	1.76	1.27	2.41	1.73	3.42	2.46	3.64	2.62	3.32	2.38
Min	0.4	0.1	4.2	3.0	4.7	3.4	5.8	4.1	6.1	4.3	1.3	0.9
Max	1.7	1.6	11.8	8.5	15.2	10.9	18.5	13.3	19.4	13.9	15.0	10.7

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for October, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.2 (0.1)	0.1 (0.2)	8.2 (2.4)	5.9 (1.7)	1.9 (1.0)	1.4 (0.7)	13.5 (3.4)	9.6 (2.4)	4.9 (1.4)	3.5 (1.0)	2.5 (0.7)	1.8 (0.5)
2	0.0 (0.1)	0.2 (0.6)	7.7 (2.0)	5.5 (1.5)	1.5 (0.3)	1.1 (0.2)	12.0 (2.6)	8.6 (1.9)	2.7 (0.8)	1.9 (0.6)	2.7 (0.5)	2.0 (0.3)
3	0.5 (0.1)	0.0 (0.1)	7.2 (1.3)	5.1 (0.9)	2.4 (0.9)	1.7 (0.7)	9.9 (1.5)	7.1 (1.1)	1.0 (0.3)	0.7 (0.2)	1.4 (0.6)	1.0 (0.4)
4	0.4 (0.2)	-0.1 (0.1)	7.6 (1.9)	5.4 (1.4)	4.9 (0.7)	3.5 (0.5)	9.0 (2.6)	6.4 (1.9)	1.1 (0.8)	0.8 (0.5)	1.0 (0.5)	0.7 (0.3)
5	0.0 (0.1)	-0.2 (0.1)	9.4 (1.2)	6.7 (0.9)	7.7 (1.4)	5.5 (1.0)	8.3 (1.9)	5.9 (1.4)	0.8 (0.3)	0.6 (0.2)	0.5 (0.1)	0.4 (0.1)
6	-0.1 (0.1)	-0.1 (0.1)	9.4 (3.2)	6.7 (2.3)	4.5 (4.3)	3.2 (3.1)	10.5 (2.2)	7.5 (1.6)	1.2 (0.4)	0.8 (0.3)	0.5 (0.2)	0.4 (0.2)
7	0.1 (0.3)	0.1 (0.2)	7.7 (2.0)	5.5 (1.4)	1.1 (0.4)	0.8 (0.3)	9.6 (3.2)	6.9 (2.3)	0.9 (0.4)	0.7 (0.3)	0.8 (0.5)	0.5 (0.3)
8	0.8 (0.5)	0.8 (0.8)	7.8 (1.1)	5.6 (0.8)	1.0 (0.3)	0.7 (0.2)	10.6 (2.7)	7.6 (2.0)	1.8 (0.5)	1.3 (0.3)	1.5 (0.2)	1.0 (0.1)
9	0.4 (0.2)	0.1 (0.2)	8.2 (1.7)	5.8 (1.2)	0.6 (0.1)	0.4 (0.1)	14.0 (4.0)	10.0 (2.9)	2.1 (0.7)	1.5 (0.5)	2.5 (0.6)	1.8 (0.4)
10	-0.1 (0.2)	-0.3 (0.1)	6.4 (2.7)	4.5 (1.9)	0.2 (0.2)	0.2 (0.1)	9.4 (1.6)	6.7 (1.2)	0.5 (0.2)	0.4 (0.2)	0.8 (0.6)	0.6 (0.5)
11	0.2 (0.3)	-0.1 (0.1)	4.4 (2.1)	3.2 (1.5)	0.3 (0.1)	0.2 (0.1)	7.1 (2.0)	5.1 (1.4)	0.6 (0.2)	0.4 (0.1)	0.9 (0.6)	0.7 (0.4)
12	0.2 (0.1)	0.0 (0.1)	4.5 (1.7)	3.2 (1.2)	0.4 (0.2)	0.3 (0.1)	5.0 (1.5)	3.6 (1.1)	0.5 (0.2)	0.3 (0.1)	1.0 (0.4)	0.7 (0.3)
13	0.3 (0.1)	0.0 (0.1)	4.9 (2.1)	3.5 (1.5)	0.5 (0.1)	0.4 (0.1)	5.4 (1.5)	3.9 (1.1)	0.5 (0.1)	0.3 (0.1)	1.6 (0.5)	1.1 (0.3)
14	0.5 (0.3)	0.1 (0.2)	5.4 (1.1)	3.9 (0.8)	0.8 (0.2)	0.6 (0.1)	7.0 (1.3)	5.0 (0.9)	0.9 (0.2)	0.6 (0.1)	1.3 (0.4)	1.0 (0.3)
15	0.5 (0.2)	0.1 (0.2)	6.9 (1.3)	4.9 (0.9)	1.3 (0.1)	0.9 (0.1)	10.0 (2.5)	7.2 (1.9)	1.0 (0.5)	0.8 (0.3)	1.1 (0.7)	0.8 (0.5)
16	0.3 (0.2)	0.2 (0.2)	8.0 (1.7)	5.7 (1.2)	1.5 (0.5)	1.1 (0.3)	8.6 (1.4)	6.2 (1.0)	1.1 (0.3)	0.8 (0.2)	1.1 (0.3)	0.8 (0.2)
17	0.2 (0.3)	0.0 (0.3)	7.4 (1.9)	5.3 (1.4)	1.2 (0.4)	0.9 (0.3)	6.6 (1.8)	4.7 (1.3)	0.5 (0.1)	0.3 (0.1)	1.0 (0.6)	0.7 (0.4)
18	0.1 (0.2)	-0.2 (0.0)	6.9 (1.7)	4.9 (1.2)	1.3 (0.4)	0.9 (0.3)	5.9 (1.1)	4.2 (0.8)	0.4 (0.1)	0.3 (0.1)	1.3 (0.7)	0.9 (0.5)
19	0.4 (0.4)	0.1 (0.2)	9.1 (0.5)	6.5 (0.3)	3.6 (1.6)	2.6 (1.2)	5.3 (1.8)	3.8 (1.3)	0.4 (0.2)	0.3 (0.1)	1.0 (0.5)	0.7 (0.4)
20	0.3 (0.2)	0.0 (0.1)	8.6 (2.4)	6.2 (1.7)	3.5 (2.7)	2.5 (1.9)	7.1 (4.1)	5.0 (2.9)	1.1 (0.6)	0.8 (0.4)	1.8 (0.5)	1.3 (0.3)
21	0.1 (0.0)	0.0 (0.2)	8.1 (1.9)	5.8 (1.4)	2.1 (0.5)	1.5 (0.3)	6.5 (1.2)	4.6 (0.8)	0.9 (0.3)	0.7 (0.2)	2.4 (1.3)	1.7 (1.0)
22	-0.1 (0.1)	-0.2 (0.1)	8.5 (2.2)	6.0 (1.6)	1.8 (1.1)	1.3 (0.8)	5.7 (1.8)	4.1 (1.3)	0.5 (0.1)	0.4 (0.1)	1.5 (1.3)	1.1 (0.9)
23	-0.3 (0.1)	-0.4 (0.0)	8.1 (2.1)	5.8 (1.5)	1.1 (0.4)	0.8 (0.3)	9.6 (2.7)	6.9 (2.0)	0.7 (0.4)	0.5 (0.3)	0.1 (0.2)	0.1 (0.1)
24	0.4 (0.5)	0.1 (0.3)	8.1 (1.3)	5.8 (1.0)	2.0 (0.5)	1.4 (0.3)	10.5 (1.8)	7.5 (1.3)	0.8 (0.2)	0.6 (0.2)	1.3 (0.8)	1.0 (0.6)
25	0.2 (0.2)	-0.1 (0.1)	9.3 (1.9)	6.7 (1.4)	3.7 (0.5)	2.7 (0.3)	12.3 (2.7)	8.8 (2.0)	2.1 (0.2)	1.5 (0.2)	3.6 (0.4)	2.5 (0.3)
26	0.2 (0.2)	-0.1 (0.3)	13.5 (2.6)	9.6 (1.8)	5.4 (0.9)	3.8 (0.6)	8.7 (3.7)	6.2 (2.7)	2.2 (0.7)	1.6 (0.5)	3.7 (1.3)	2.6 (0.9)
27	-0.2 (0.1)	-0.3 (0.1)	16.5 (4.7)	11.8 (3.3)	4.7 (2.7)	3.4 (1.9)	10.1 (2.2)	7.2 (1.5)	2.4 (0.8)	1.7 (0.6)	1.8 (1.1)	1.3 (0.8)
28	-0.3 (0.1)	-0.3 (0.1)	13.1 (2.7)	9.3 (1.9)	3.2 (0.4)	2.3 (0.3)	12.6 (0.9)	9.0 (0.6)	2.0 (0.2)	1.4 (0.1)	2.4 (1.1)	1.7 (0.8)
29	0.0 (0.1)	-0.3 (0.1)	10.8 (3.4)	7.7 (2.4)	4.7 (0.5)	3.4 (0.4)	14.1 (2.5)	10.0 (1.8)	2.5 (0.3)	1.8 (0.2)	5.0 (2.0)	3.5 (1.4)
30	1.0 (0.7)	1.1 (0.9)	10.8 (2.0)	7.7 (1.4)	6.5 (0.9)	4.6 (0.7)	14.8 (2.2)	10.5 (1.6)	4.2 (2.4)	3.0 (1.7)	8.9 (4.6)	6.3 (3.3)
31	0.9 (0.6)	0.4 (0.5)	10.8 (2.4)	7.8 (1.7)	4.5 (2.8)	3.2 (2.0)	22.0 (6.3)	15.7 (4.5)	5.7 (3.2)	4.1 (2.3)	9.8 (3.3)	7.0 (2.4)
Avg	0.22	0.02	8.49	6.07	2.58	1.84	9.73	6.95	1.54	1.1	2.15	1.53
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.3	0.3	2.54	1.81	1.95	1.39	3.54	2.53	1.31	0.93	2.14	1.53
Min	-0.3	-0.4	4.4	3.2	0.2	0.2	5.0	3.6	0.4	0.3	0.1	0.1
Max	1.0	1.1	16.5	11.8	7.7	5.5	22.0	15.7	5.7	4.1	9.8	7.0

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for November, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.6 (0.3)	0.2 (0.3)	10.6 (2.1)	7.6 (1.5)	3.7 (0.6)	2.7 (0.4)	19.9 (5.2)	14.2 (3.7)	4.2 (0.6)	3.0 (0.4)	9.1 (4.5)	6.5 (3.2)
2	0.9 (0.6)	0.9 (1.0)	12.8 (0.9)	9.2 (0.6)	6.2 (0.7)	4.4 (0.5)	22.5 (1.3)	16.2 (0.9)	6.3 (0.8)	4.5 (0.6)	8.2 (6.4)	5.9 (4.6)
3	1.4 (0.4)	1.4 (0.6)	13.7 (3.7)	9.8 (2.6)	7.7 (1.4)	5.5 (1.0)	22.3 (3.2)	16.0 (2.3)	7.7 (1.7)	5.5 (1.2)	10.4 (2.5)	7.4 (1.8)
4	1.4 (0.7)	1.5 (0.9)	11.9 (4.2)	8.5 (3.0)	7.3 (3.7)	5.2 (2.6)	19.5 (3.5)	14.0 (2.5)	8.2 (4.2)	5.9 (3.0)	8.8 (4.7)	6.3 (3.3)
5	1.0 (0.3)	1.7 (0.5)										
6	0.5 (0.1)	0.3 (0.2)	8.3 (2.3)	6.0 (1.7)	3.9 (0.6)	2.8 (0.5)	13.8 (1.9)	9.9 (1.4)	3.9 (0.8)	2.8 (0.6)	1.6 (0.7)	1.1 (0.5)
7	0.2 (0.2)	0.1 (0.3)	8.8 (1.6)	6.3 (1.2)	3.4 (1.6)	2.4 (1.1)	14.7 (2.9)	10.5 (2.1)	4.1 (1.6)	2.9 (1.2)	1.9 (0.6)	1.4 (0.5)
8	-0.1 (0.1)	-0.4 (0.1)	10.4 (1.2)	7.4 (0.9)	3.9 (0.5)	2.8 (0.4)	11.2 (1.9)	8.0 (1.4)	3.6 (0.3)	2.6 (0.2)	1.5 (0.4)	1.1 (0.3)
9	-0.1 (0.0)	-0.3 (0.1)	15.4 (1.7)	11.0 (1.2)	7.7 (1.5)	5.5 (1.1)	11.8 (0.9)	8.4 (0.6)	5.3 (0.6)	3.8 (0.4)	3.1 (0.3)	2.2 (0.2)
10	0.0 (0.1)	-0.3 (0.0)	18.2 (4.4)	13.0 (3.1)	12.9 (1.3)	9.2 (0.9)	16.5 (3.8)	11.8 (2.7)	9.5 (2.2)	6.8 (1.5)	5.0 (2.0)	3.5 (1.5)
11	0.1 (0.1)	-0.1 (0.1)	17.9 (2.7)	12.8 (1.9)	11.1 (5.5)	7.9 (4.0)	28.8 (8.9)	20.6 (6.4)	9.8 (3.1)	7.0 (2.2)	2.3 (1.5)	1.7 (1.1)
12	0.6 (0.3)	0.1 (0.2)	15.1 (3.6)	10.8 (2.6)	5.9 (0.5)	4.2 (0.3)	32.2 (6.5)	23.0 (4.6)	6.7 (0.7)	4.8 (0.5)	2.5 (1.5)	1.8 (1.1)
13	1.2 (0.6)	0.8 (0.6)	13.2 (2.1)	9.5 (1.5)	8.5 (0.8)	6.1 (0.6)	27.6 (3.9)	19.8 (2.8)	9.4 (0.7)	6.7 (0.5)	5.5 (1.4)	3.9 (1.0)
14	0.6 (0.2)	0.5 (0.2)	13.6 (1.2)	9.8 (0.8)	7.0 (3.7)	5.0 (2.7)	25.3 (5.5)	18.2 (3.9)	8.8 (3.8)	6.3 (2.7)	5.9 (0.8)	4.2 (0.6)
15	0.3 (0.1)	0.1 (0.3)	13.6 (2.8)	9.8 (2.0)	6.4 (0.6)	4.6 (0.4)	19.8 (2.8)	14.1 (2.0)	6.6 (0.5)	4.7 (0.4)	5.2 (1.2)	3.7 (0.9)
16	0.1 (0.1)	-0.2 (0.1)	17.4 (1.7)	12.4 (1.2)	10.3 (1.3)	7.4 (0.9)	15.2 (2.7)	10.9 (1.9)	8.3 (1.8)	5.9 (1.3)	6.7 (0.7)	4.7 (0.5)
17	0.4 (0.1)	0.0 (0.1)	21.0 (3.3)	15.0 (2.3)	16.4 (1.5)	11.7 (1.1)	26.9 (6.3)	19.3 (4.6)	15.5 (1.1)	11.1 (0.8)	5.8 (1.4)	4.1 (1.0)
18	0.7 (0.3)	0.2 (0.3)	20.0 (4.4)	14.4 (3.2)	13.3 (8.2)	9.6 (5.9)	48.5 (6.3)	34.8 (4.5)	14.9 (6.2)	10.7 (4.5)	5.5 (1.9)	3.9 (1.4)
19	0.7 (0.3)	0.4 (0.2)										
20	0.5 (0.2)	0.1 (0.1)	18.6 (3.5)	13.3 (2.5)	12.0 (1.3)	8.6 (1.0)	45.0 (4.4)	32.2 (3.2)	14.5 (1.3)	10.4 (1.0)	6.8 (1.1)	4.8 (0.8)
21	0.7 (0.4)	0.2 (0.2)	19.8 (3.2)	14.2 (2.3)	16.0 (2.3)	11.5 (1.6)	44.6 (3.6)	32.0 (2.6)	22.3 (1.6)	16.0 (1.2)	8.3 (0.9)	5.9 (0.6)
22	0.2 (0.9)	0.6 (0.9)	21.5 (4.1)	15.4 (3.0)	18.3 (2.5)	13.1 (1.8)	52.9 (7.7)	38.0 (5.5)	52.0 (17.5)	37.2 (12.5)	11.7 (2.8)	8.3 (2.0)
23	2.2 (0.7)	2.5 (1.5)	25.1 (2.8)	18.0 (2.0)	22.1 (2.6)	15.8 (1.8)	48.5 (4.7)	34.8 (3.4)	70.5 (8.6)	50.5 (6.1)	16.4 (4.8)	11.7 (3.4)
24	0.3 (1.5)	0.3 (1.6)	28.3 (4.2)	20.3 (3.0)	22.3 (6.7)	15.9 (4.8)	50.9 (5.3)	36.5 (3.8)	60.3 (11.9)	43.2 (8.5)	11.1 (2.7)	7.9 (1.9)
25	-0.8 (0.2)	-1.7 (0.1)	28.1 (4.4)	20.2 (3.1)	16.7 (2.2)	12.0 (1.6)	57.2 (6.6)	41.0 (4.8)	53.7 (8.3)	38.4 (6.0)	8.6 (1.5)	6.1 (1.0)
26	-0.5 (0.2)	-0.7 (0.8)	24.8 (5.3)	17.8 (3.8)	15.1 (3.1)	10.8 (2.2)	55.7 (6.8)	40.0 (4.9)	60.6 (3.7)	43.4 (2.6)	11.8 (1.6)	8.4 (1.1)
27	-0.3 (0.7)	-0.6 (0.9)	28.0 (2.5)	20.1 (1.8)	13.9 (1.8)	10.0 (1.3)	61.1 (6.6)	43.9 (4.8)	54.3 (6.5)	38.9 (4.7)	14.5 (3.4)	10.3 (2.4)
28	-0.9 (0.2)	-1.5 (0.4)	25.7 (5.9)	18.4 (4.2)	12.6 (2.0)	9.0 (1.5)	61.6 (10.8)	44.2 (7.7)	46.2 (5.7)	33.0 (4.1)	11.1 (1.1)	7.9 (0.8)
29	0.9 (1.0)	0.4 (0.4)	23.4 (4.2)	16.8 (3.0)	11.9 (1.9)	8.6 (1.4)	49.4 (9.8)	35.4 (7.1)	39.8 (5.9)	28.5 (4.2)	14.3 (4.9)	10.2 (3.5)
30	0.1 (0.7)	-0.3 (0.6)	25.6 (2.4)	18.4 (1.7)	15.9 (1.2)	11.4 (0.9)	41.4 (2.4)	29.7 (1.7)	35.2 (0.8)	25.2 (0.6)	5.9 (4.7)	4.2 (3.4)
Avg	0.42	0.21	18.3	13.1	11.2	7.99	33.7	24.2	22.9	16.4	7.48	5.32
n	30	30	28	28	28	28	28	28	28	28	28	28
SD	0.64	0.84	6.07	4.36	5.32	3.81	16.5	11.9	21.5	15.4	4.02	2.86
Min	-0.9	-1.7	8.3	6.0	3.4	2.4	11.2	8.0	3.6	2.6	1.5	1.1
Max	2.2	2.5	28.3	20.3	22.3	15.9	61.6	44.2	70.5	50.5	16.4	11.7

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for December, 2008.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	-0.7 (0.5)	-1.2 (0.5)	31.6 (3.2)	22.7 (2.3)	19.6 (3.1)	14.1 (2.3)	54.9 (4.5)	39.4 (3.2)	49.2 (8.7)	35.3 (6.3)	10.2 (1.6)	7.3 (1.2)
2	-0.1 (1.3)	-0.5 (1.7)	32.2 (6.9)	23.1 (5.0)	19.4 (1.8)	13.9 (1.3)	63.5 (7.3)	45.6 (5.3)	57.4 (6.8)	41.1 (4.9)	8.3 (2.2)	5.9 (1.6)
3	1.7 (1.2)	1.6 (1.9)	23.7 (6.4)	17.0 (4.6)	17.2 (3.4)	12.3 (2.5)	56.2 (9.7)	40.3 (6.9)	57.2 (4.9)	41.0 (3.5)	8.7 (1.0)	6.2 (0.7)
4	-0.8 (0.1)	-1.6 (0.1)	23.9 (3.7)	17.1 (2.6)	14.9 (1.0)	10.7 (0.7)	48.8 (4.5)	35.0 (3.3)	48.6 (2.9)	34.8 (2.1)	6.8 (1.3)	4.9 (0.9)
5	-0.4 (0.8)	-0.9 (0.9)	30.6 (2.6)	21.9 (1.9)	16.0 (4.8)	11.4 (3.4)	56.2 (4.2)	40.3 (3.0)	41.3 (8.2)	29.6 (5.9)	8.1 (0.8)	5.7 (0.6)
6	1.0 (2.0)	0.1 (1.8)	32.6 (3.7)	23.3 (2.7)	15.2 (2.6)	10.9 (1.9)	70.1 (10.5)	50.3 (7.6)	34.4 (2.3)	24.6 (1.7)	7.6 (1.6)	5.4 (1.1)
7	-0.4 (0.4)	-1.0 (1.1)	33.9 (5.6)	24.2 (4.1)	16.0 (2.8)	11.5 (2.0)	61.6 (13.7)	44.1 (10.0)	34.6 (1.6)	24.8 (1.2)	9.4 (1.9)	6.6 (1.4)
8												
9												
10												
11	0.8 (0.9)	2.0 (1.0)	26.1 (5.9)	18.7 (4.2)	16.1 (2.2)	11.6 (1.5)	59.0 (11.4)	42.3 (8.2)	59.7 (7.7)	42.8 (5.6)	16.2 (2.5)	11.5 (1.8)
12	-0.7 (0.4)	0.1 (1.6)	23.6 (6.8)	16.9 (4.9)	14.9 (1.8)	10.7 (1.3)	55.8 (9.8)	40.0 (7.1)	59.2 (5.8)	42.4 (4.2)	12.9 (3.9)	9.2 (2.7)
13	2.1 (0.7)	3.3 (1.8)	23.1 (3.0)	16.5 (2.1)	16.4 (2.5)	11.7 (1.8)	42.8 (6.7)	30.7 (4.8)	62.2 (6.0)	44.5 (4.3)	9.2 (3.2)	6.6 (2.3)
14	1.9 (0.4)	1.9 (0.7)	28.5 (1.8)	20.4 (1.3)	16.4 (1.5)	11.8 (1.1)	39.0 (6.3)	28.0 (4.5)	48.8 (7.1)	35.0 (5.1)	7.0 (1.0)	5.0 (0.7)
15	-0.8 (0.8)	-1.6 (0.7)	42.1 (5.4)	30.2 (3.8)	15.7 (2.6)	11.2 (1.9)	42.9 (4.3)	30.8 (3.0)	32.3 (5.8)	23.1 (4.1)	7.6 (1.3)	5.4 (1.0)
16	1.7 (0.8)	-0.3 (0.6)	60.5 (5.5)	43.4 (3.9)	23.6 (2.9)	16.9 (2.1)	58.9 (5.5)	42.2 (4.0)	38.3 (4.5)	27.4 (3.2)	5.2 (5.5)	3.7 (3.9)
17	0.5 (1.0)	-0.3 (1.0)	61.3 (19.8)	44.0 (14.2)	36.7 (2.3)	26.3 (1.6)	64.0 (16.6)	45.9 (11.9)	53.9 (5.5)	38.6 (3.9)	12.9 (2.7)	9.2 (1.9)
18	-0.3 (0.6)	1.9 (1.8)	15.2 (1.7)	10.9 (1.2)	31.2 (15.6)	22.4 (11.2)	18.5 (3.2)	13.3 (2.3)	50.5 (24.0)	36.2 (17.2)	9.3 (4.0)	6.6 (2.9)
19	-0.1 (0.2)	-1.2 (0.2)	18.1 (2.6)	13.0 (1.9)	8.0 (0.7)	5.8 (0.5)	25.9 (4.2)	18.6 (3.1)	12.5 (1.5)	9.0 (1.0)	8.1 (6.5)	5.8 (4.6)
20	0.7 (0.6)	-1.3 (0.4)	26.1 (3.2)	18.8 (2.3)	11.6 (1.4)	8.3 (1.0)	54.8 (6.2)	39.3 (4.5)	20.0 (4.9)	14.3 (3.5)	3.4 (6.0)	2.4 (4.2)
21	-1.2 (1.2)	-1.7 (0.8)	40.4 (5.1)	28.9 (3.7)	23.8 (4.7)	17.0 (3.4)	52.1 (21.4)	37.3 (15.4)	39.7 (4.2)	28.4 (3.0)	5.2 (3.2)	3.7 (2.3)
22	1.0 (2.6)	0.1 (2.7)	56.7 (6.4)	40.7 (4.6)	39.4 (3.5)	28.2 (2.5)	91.8 (12.6)	65.9 (9.1)	88.4 (24.5)	63.4 (17.6)	9.8 (4.7)	6.9 (3.4)
23	6.8 (1.5)	7.2 (3.8)	47.5 (18.2)	34.1 (13.1)	38.6 (18.3)	27.7 (13.2)	121.0 (13.8)	87.2 (9.9)	148.0 (19.0)	106.0 (13.6)	9.8 (3.6)	7.0 (2.6)
24	3.7 (2.8)	6.1 (5.9)	60.7 (22.9)	43.7 (16.6)	55.3 (24.7)	39.8 (17.8)	127.0 (15.1)	91.7 (10.9)	129.0 (13.4)	93.0 (9.7)		
25	2.2 (0.9)	4.6 (3.0)	41.9 (9.4)	30.1 (6.8)	35.4 (4.4)	25.4 (3.2)	120.0 (16.7)	86.4 (12.0)	137.0 (11.5)	98.3 (8.3)	15.4 (4.9)	10.9 (3.5)
26	4.3 (2.0)	6.6 (0.8)	35.7 (7.7)	25.7 (5.5)	36.4 (4.1)	26.1 (3.0)	96.8 (20.4)	69.6 (14.6)	116.0 (14.8)	83.0 (10.6)	12.0 (5.3)	8.6 (3.8)
27	6.4 (1.4)	7.7 (1.2)	25.7 (6.0)	18.5 (4.4)	27.7 (5.4)	19.9 (3.9)	72.3 (10.5)	52.1 (7.6)	83.7 (12.9)	60.2 (9.3)	19.7 (4.1)	14.1 (3.0)
28	0.9 (2.1)	0.8 (2.9)	33.3 (4.3)	23.9 (3.1)	41.1 (5.3)	29.5 (3.8)	70.4 (10.4)	50.5 (7.4)	86.8 (4.3)	62.3 (3.0)	17.1 (6.5)	12.2 (4.6)
29	1.5 (1.4)	2.3 (3.5)	43.3 (5.2)	31.1 (3.7)	38.7 (12.4)	27.8 (8.9)	117.0 (19.0)	84.3 (13.7)	99.0 (7.2)	71.1 (5.1)	21.1 (4.3)	15.0 (3.0)
30	3.4 (1.7)	4.2 (2.7)	42.6 (11.3)	30.7 (8.1)	31.6 (4.7)	22.7 (3.4)	121.0 (20.4)	86.8 (14.6)	114.0 (13.2)	82.0 (9.5)	23.6 (7.3)	16.8 (5.2)
31	0.5 (1.1)	0.5 (0.8)	36.0 (4.7)	25.8 (3.3)	28.4 (3.0)	20.4 (2.2)	102.0 (7.2)	72.9 (5.2)	125.0 (13.5)	89.6 (9.7)	13.3 (4.7)	9.4 (3.3)
Avg	1.27	1.4	35.6	25.6	25.2	18.1	70.2	50.4	68.8	49.4	11	7.85
n	28	28	28	28	28	28	28	28	28	28	27	27
SD	2.02	2.81	12.5	9.02	11.3	8.16	29.7	21.4	36.8	26.4	4.93	3.51
Min	-1.2	-1.7	15.2	10.9	8.0	5.8	18.5	13.3	12.5	9.0	3.4	2.4
Max	6.8	7.7	61.3	44.0	55.3	39.8	127.0	91.7	148.0	106.0	23.6	16.8

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for January, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	5.7 (1.5)	2.7 (0.9)	38.7 (8.7)	27.8 (6.3)	35.4 (5.3)	25.4 (3.8)	90.3 (18.8)	64.7 (13.5)	142.0 (19.3)	102.0 (13.9)	19.2 (8.5)	13.6 (6.0)
2	0.6 (0.9)	0.8 (2.2)	34.1 (5.7)	24.5 (4.1)	32.9 (4.9)	23.6 (3.5)	81.6 (12.8)	58.5 (9.2)	124.0 (12.6)	89.0 (9.1)	25.2 (8.6)	17.9 (6.1)
3	4.8 (0.8)	2.3 (3.2)	31.4 (4.5)	22.6 (3.2)	33.6 (5.5)	24.1 (3.9)	68.3 (8.6)	49.0 (6.1)	120.0 (11.2)	86.5 (8.1)	9.1 (6.7)	6.4 (4.7)
4	2.1 (2.0)	1.8 (2.4)	34.5 (2.5)	24.8 (1.8)	36.0 (2.4)	25.8 (1.7)	56.8 (5.0)	40.7 (3.6)	106.0 (6.1)	76.2 (4.4)	16.6 (6.7)	11.8 (4.8)
5	-0.2 (0.3)	4.7 (2.5)	37.6 (8.5)	27.0 (6.1)	41.3 (4.8)	29.6 (3.4)	66.3 (4.3)	47.4 (3.1)	124.0 (16.1)	88.8 (11.6)	22.8 (5.6)	16.2 (4.0)
6	1.8 (0.4)	6.6 (2.5)	31.9 (8.1)									
7	0.8 (1.4)	5.0 (7.8)	28.9 (3.5)	20.7 (2.5)	42.7 (6.9)	30.7 (5.0)	73.0 (17.1)	52.4 (12.3)	150.0 (24.1)	108.0 (17.4)	17.5 (5.9)	12.4 (4.2)
8	-0.1 (0.3)	-0.6 (0.6)	33.3 (4.3)	23.9 (3.1)	40.7 (5.8)	29.2 (4.1)	88.5 (8.5)	63.5 (6.1)	134.0 (17.9)	96.4 (12.8)	16.5 (3.7)	11.7 (2.6)
9	4.9 (2.2)	4.1 (2.7)	32.3 (4.3)	23.2 (3.1)	38.7 (7.6)	27.8 (5.5)	82.1 (17.3)	58.9 (12.4)	140.0 (9.6)	100.0 (6.8)		
10	1.2 (1.3)	0.7 (0.8)	23.5 (8.8)	16.8 (6.4)	31.3 (5.8)	22.5 (4.2)	53.8 (15.0)	38.5 (10.8)	115.0 (20.0)	82.8 (14.4)	9.1 (8.0)	6.5 (5.7)
11	-0.2 (0.1)	3.9 (1.7)	27.7 (3.7)	19.9 (2.7)	41.6 (3.8)	29.9 (2.7)	53.0 (2.4)	38.0 (1.7)	111.0 (8.6)	79.5 (6.2)	34.1 (9.0)	24.3 (6.4)
12	1.2 (1.1)	9.2 (2.6)	30.8 (6.8)	22.1 (4.9)	49.4 (6.2)	35.5 (4.5)	54.8 (3.4)	39.3 (2.5)	137.0 (9.9)	98.1 (7.2)	25.7 (5.7)	18.2 (4.1)
13	0.0 (0.6)	1.0 (1.7)	29.0 (5.0)	20.8 (3.6)	48.8 (6.3)	35.1 (4.5)	61.8 (5.3)	44.3 (3.8)	165.0 (13.1)	119.0 (9.5)	17.9 (3.6)	12.7 (2.5)
14	1.1 (0.8)	6.8 (1.6)	33.2 (6.4)	23.8 (4.6)	57.2 (10.3)	41.2 (7.4)	61.0 (6.1)	43.7 (4.4)	204.0 (18.6)	146.0 (13.5)	16.6 (9.0)	11.8 (6.4)
15	-0.7 (0.8)	4.4 (7.6)	25.1 (9.9)	18.0 (7.1)	42.8 (21.4)	30.7 (15.4)	39.5 (14.2)	28.3 (10.2)	138.0 (61.2)	99.3 (44.2)	14.1 (5.2)	10.0 (3.7)
16	1.8 (3.9)	3.8 (2.7)	27.2 (4.2)	19.5 (3.1)	11.6 (4.4)	8.3 (3.1)	54.0 (22.3)	38.7 (16.0)	126.0 (33.1)	90.6 (23.9)	20.6 (10.3)	14.6 (7.3)
17	7.5 (4.6)	7.5 (5.2)	33.4 (7.6)	24.0 (5.5)	55.9 (9.4)	40.2 (6.8)	91.3 (7.5)	65.6 (5.4)	142.0 (27.6)	102.0 (19.8)	26.7 (7.0)	18.9 (4.9)
18	0.3 (0.3)	0.5 (1.5)	28.5 (3.6)	20.5 (2.6)	52.3 (2.9)	37.6 (2.1)	73.3 (10.6)	52.6 (7.6)	111.0 (6.3)	80.1 (4.5)	24.8 (3.0)	17.6 (2.1)
19	0.9 (0.7)	5.1 (1.0)	26.0 (7.0)	18.7 (5.1)	56.6 (13.7)	40.7 (9.8)	52.7 (9.8)	37.8 (7.1)	119.0 (9.8)	85.6 (7.1)	26.8 (7.5)	19.0 (5.3)
20	0.4 (0.2)	5.4 (1.9)	24.2 (2.1)	17.4 (1.5)	45.9 (7.6)	33.0 (5.4)	50.1 (3.8)	35.9 (2.7)	139.0 (16.5)	99.8 (11.9)	23.7 (3.6)	16.8 (2.6)
21	0.7 (1.1)	8.4 (2.8)	28.9 (3.5)	20.7 (2.5)	40.1 (7.6)	28.8 (5.5)	54.8 (2.8)	39.2 (2.1)	158.0 (23.5)	114.0 (16.9)	20.1 (4.7)	14.3 (3.4)
22	0.8 (1.4)	5.9 (3.4)	23.9 (4.1)	17.1 (3.0)	30.6 (5.4)	22.0 (3.9)	48.6 (6.0)	34.8 (4.3)	121.0 (17.1)	86.7 (12.3)	27.0 (9.7)	19.2 (6.9)
23	0.0 (1.6)	1.9 (4.3)	13.7 (7.2)	9.8 (5.1)	28.6 (5.2)	20.6 (3.7)	26.7 (10.6)	19.2 (7.6)	111.0 (13.4)	79.8 (9.6)	20.5 (7.2)	14.6 (5.1)
24	-1.2 (0.2)	1.1 (1.4)	9.3 (0.7)	6.7 (0.5)	27.1 (5.3)	19.5 (3.8)	14.7 (2.2)	10.5 (1.6)	101.0 (7.8)	72.8 (5.6)	17.5 (3.5)	12.4 (2.5)
25	-1.5 (0.1)	1.6 (0.6)	11.6 (0.7)	8.3 (0.5)	37.1 (3.4)	26.6 (2.4)	13.5 (0.7)	9.7 (0.5)	108.0 (3.3)	77.9 (2.3)	16.5 (3.0)	11.7 (2.1)
26	-0.9 (0.3)	2.3 (0.9)	9.1 (3.4)	6.5 (2.5)	41.8 (4.5)	30.0 (3.3)	11.6 (3.0)	8.3 (2.2)	103.0 (5.8)	74.2 (4.1)	19.4 (4.2)	13.8 (3.0)
27	-0.7 (0.3)	3.1 (0.9)	6.8 (0.5)	4.9 (0.3)	33.8 (10.8)	24.3 (7.7)	7.9 (0.3)	5.6 (0.2)	117.0 (12.9)	83.7 (9.3)	7.1 (6.6)	5.0 (4.7)
28	-0.8 (0.2)	2.8 (1.2)	7.6 (0.7)	5.4 (0.5)	25.6 (6.1)	18.4 (4.4)	7.8 (0.5)	5.5 (0.4)	109.0 (29.9)	78.0 (21.5)	8.9 (2.8)	6.3 (2.0)
29	-1.0 (0.1)	0.6 (1.9)	6.4 (3.5)	4.6 (2.5)	27.7 (3.6)	19.9 (2.6)	6.8 (2.1)	4.9 (1.5)	97.8 (6.4)	70.2 (4.6)	9.3 (1.9)	6.6 (1.3)
30	-1.3 (0.1)	-0.5 (0.9)	5.1 (1.2)	3.6 (0.9)	30.6 (5.2)	22.0 (3.7)	5.0 (0.8)	3.6 (0.6)	96.7 (9.7)	69.5 (7.0)	8.2 (1.4)	5.9 (1.0)
31	-0.5 (0.5)	5.4 (2.3)	8.3 (1.2)	6.0 (0.9)	35.5 (4.8)	25.5 (3.5)	8.0 (0.8)	5.7 (0.5)	117.0 (10.5)	84.0 (7.5)	10.1 (2.0)	7.1 (1.4)
Avg	0.89	3.48	23.9	17	38.4	27.6	48.6	34.8	126	90.7	18.3	13
n	31	31	31	30	30	30	30	30	30	30	29	29
SD	2.12	2.56	10.5	7.58	10.1	7.24	27.6	19.8	22.5	16.2	6.81	4.84
Min	-1.5	-0.6	5.1	3.6	11.6	8.3	5.0	3.6	96.7	69.5	7.1	5.0
Max	7.5	9.2	38.7	27.8	57.2	41.2	91.3	65.6	204.0	146.0	34.1	24.3

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for February, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	-0.8 (0.1)	-0.6 (0.4)	7.1 (0.9)	5.1 (0.7)	36.8 (2.6)	26.5 (1.9)	6.6 (0.4)	4.7 (0.3)	97.8 (8.3)	70.3 (6.0)	14.7 (2.6)	10.4 (1.9)
2	-1.0 (0.2)	0.8 (1.3)	6.7 (3.5)	4.8 (2.5)	42.5 (9.2)	30.6 (6.6)	6.6 (1.8)	4.8 (1.3)	114.0 (6.3)	81.8 (4.6)	13.2 (3.0)	9.4 (2.1)
3	-1.1 (0.0)	0.1 (0.2)										
4	-0.9 (0.1)	3.4 (1.3)	6.5 (1.3)	4.6 (0.9)	38.6 (12.5)	27.8 (9.0)	4.7 (0.4)	3.4 (0.3)	138.0 (17.2)	99.5 (12.4)	10.0 (1.4)	7.1 (1.0)
5	-0.3 (0.4)	4.9 (2.0)	9.8 (2.4)	7.0 (1.7)	36.2 (6.5)	26.0 (4.7)	5.4 (0.8)	3.9 (0.6)	121.0 (22.0)	87.0 (15.8)	7.5 (3.4)	5.3 (2.4)
6	0.1 (0.3)	2.8 (1.0)	6.9 (3.0)	4.9 (2.1)	30.5 (6.3)	22.0 (4.5)	3.7 (0.4)	2.6 (0.3)	99.3 (13.9)	71.3 (9.9)	13.6 (4.5)	9.7 (3.2)
7	-0.4 (0.2)	0.2 (0.7)	4.4 (0.2)	3.2 (0.2)	28.7 (4.0)	20.6 (2.9)	4.1 (0.2)	2.9 (0.1)	94.2 (9.5)	67.8 (6.8)	7.3 (1.4)	5.2 (1.0)
8	-0.5 (0.1)	1.8 (1.4)	5.6 (0.5)	4.0 (0.4)	31.6 (3.1)	22.7 (2.2)	4.4 (0.3)	3.1 (0.2)	79.2 (3.5)	56.9 (2.5)	13.5 (3.6)	9.6 (2.5)
9	-0.4 (0.2)	2.0 (0.9)	6.7 (1.6)	4.8 (1.2)	36.2 (7.4)	26.0 (5.3)	4.4 (1.0)	3.1 (0.7)	82.3 (12.0)	59.1 (8.6)	7.1 (4.0)	5.0 (2.9)
10	0.6 (0.6)	1.7 (1.0)	3.9 (0.8)	2.8 (0.6)	25.9 (9.2)	18.6 (6.6)	3.6 (0.4)	2.6 (0.3)	56.2 (18.0)	40.4 (13.0)	13.9 (5.2)	9.9 (3.7)
11	0.6 (0.6)	1.5 (1.4)	3.6 (0.4)	2.6 (0.3)	19.3 (3.8)	13.9 (2.7)	3.1 (0.7)	2.2 (0.5)	36.7 (5.9)	26.3 (4.3)	12.6 (5.9)	9.0 (4.3)
12	-0.7 (0.6)	-1.1 (0.2)	2.4 (1.3)	1.7 (0.9)	20.5 (5.4)	14.7 (3.9)	1.9 (0.6)	1.4 (0.4)	34.2 (8.3)	24.5 (6.0)		
13	-1.0 (0.2)	-1.1 (0.2)	3.2 (0.3)	2.3 (0.2)	15.8 (2.9)	11.3 (2.1)	3.1 (0.6)	2.2 (0.4)	42.5 (5.8)	30.4 (4.2)	9.6 (3.5)	6.8 (2.5)
14	-0.9 (0.3)	-0.8 (0.1)	4.5 (0.9)	3.2 (0.7)	15.8 (2.7)	11.4 (1.9)	5.7 (0.8)	4.1 (0.6)	39.1 (6.2)	28.0 (4.4)	8.7 (3.8)	6.2 (2.7)
15	-0.9 (0.1)	-0.2 (0.2)	6.2 (0.6)	4.4 (0.5)	20.2 (2.4)	14.5 (1.7)	7.2 (0.6)	5.1 (0.4)	36.9 (2.7)	26.4 (2.0)	19.3 (12.4)	13.7 (8.8)
16	-0.8 (0.2)	0.1 (0.5)	7.2 (1.3)	5.1 (0.9)	23.9 (4.2)	17.1 (3.0)	10.0 (1.6)	7.1 (1.2)	47.4 (8.5)	34.0 (6.1)	16.0 (7.4)	11.4 (5.3)
17	0.1 (0.6)	2.2 (1.0)	7.9 (1.2)	5.7 (0.9)	22.3 (2.2)	16.0 (1.6)	12.4 (2.1)	8.9 (1.5)	54.7 (5.8)	39.2 (4.1)	7.6 (2.9)	5.4 (2.1)
18	0.0 (1.0)	0.6 (1.5)	7.8 (1.2)	5.6 (0.9)	20.2 (4.8)	14.5 (3.4)	15.8 (3.1)	11.3 (2.2)	59.5 (7.8)	42.7 (5.6)	11.2 (2.1)	8.0 (1.5)
19	-1.3 (0.1)	-1.4 (0.1)	7.8 (1.2)	5.6 (0.9)	15.8 (1.5)	11.3 (1.1)	12.6 (3.2)	9.0 (2.3)	43.3 (11.7)	31.0 (8.4)	7.5 (1.8)	5.3 (1.3)
20	-0.9 (0.5)	-0.8 (0.4)	10.8 (1.4)	7.8 (1.0)	17.5 (1.1)	12.6 (0.8)	17.0 (1.5)	12.2 (1.1)	57.8 (8.9)	41.4 (6.4)	11.9 (6.5)	8.4 (4.6)
21	-0.5 (0.7)	-0.6 (0.6)	10.9 (1.9)	7.8 (1.3)	19.1 (3.4)	13.7 (2.5)	16.0 (2.9)	11.4 (2.1)	53.6 (14.1)	38.4 (10.2)	4.0 (1.7)	2.9 (1.2)
22	-1.2 (0.1)	-1.4 (0.2)	13.2 (2.6)	9.5 (1.9)	18.6 (5.7)	13.3 (4.1)	16.2 (3.8)	11.6 (2.8)				
23	-0.5 (0.6)	0.4 (0.5)	18.0 (3.1)	12.9 (2.2)	30.5 (3.9)	21.9 (2.7)	32.3 (5.5)	23.2 (3.9)	73.3 (8.4)	52.6 (6.1)	12.0 (5.9)	8.5 (4.2)
24	2.4 (0.7)	1.7 (0.7)	20.5 (3.9)	14.7 (2.8)	30.2 (3.4)	21.7 (2.4)	42.2 (4.0)	30.2 (2.9)	84.5 (11.4)	60.6 (8.2)	12.3 (5.5)	8.7 (3.9)
25	3.8 (1.5)	1.7 (1.0)	19.3 (4.6)	13.8 (3.3)	30.3 (6.7)	21.8 (4.8)	42.4 (5.6)	30.4 (4.0)	79.5 (8.1)	57.1 (5.8)		
26	1.2 (0.8)	0.8 (0.5)	13.6 (2.9)	9.8 (2.0)	23.1 (2.5)	16.6 (1.8)	32.6 (4.8)	23.4 (3.4)	63.0 (3.1)	45.3 (2.2)	13.4 (7.0)	9.5 (5.0)
27	-0.1 (0.5)	-0.6 (0.5)	12.2 (1.7)	8.7 (1.2)	19.3 (4.4)	13.9 (3.1)	26.5 (1.4)	19.0 (1.0)	48.7 (8.2)	35.0 (5.9)	13.2 (3.6)	9.4 (2.5)
28	0.4 (0.4)	-0.8 (0.2)	14.7 (2.3)	10.5 (1.7)	17.5 (3.7)	12.6 (2.6)	32.5 (2.3)	23.3 (1.7)	44.6 (3.9)	32.0 (2.8)	5.3 (5.4)	3.8 (3.9)
Avg	-0.18	0.61	8.93	6.4	25.5	18.3	13.8	9.89	68.5	49.2	11	7.85
n	28	28	27	27	27	27	27	27	26	26	24	24
SD	1.11	1.55	4.85	3.48	7.78	5.61	12.3	8.83	28.1	20.2	3.56	2.54
Min	-1.3	-1.4	2.4	1.7	15.8	11.3	1.9	1.4	34.2	24.5	4.0	2.9
Max	3.8	4.9	20.5	14.7	42.5	30.6	42.4	30.4	138.0	99.5	19.3	13.7

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for March, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	1.0 (0.3)	0.3 (0.3)	19.1 (2.1)	13.7 (1.5)	22.8 (1.7)	16.4 (1.2)	34.9 (2.9)	25.0 (2.1)	49.4 (5.6)	35.4 (4.0)	7.6 (2.1)	5.4 (1.5)
2	2.4 (0.5)	0.9 (0.5)	24.1 (4.2)	17.3 (3.0)	26.7 (4.4)	19.1 (3.1)	49.4 (7.7)	35.4 (5.5)	61.0 (7.8)	43.7 (5.6)	9.4 (4.7)	6.7 (3.3)
3	4.0 (1.1)	3.3 (0.3)	25.6 (5.6)	18.4 (4.0)	25.7 (3.0)	18.4 (2.1)	62.5 (9.9)	44.8 (7.1)	70.8 (6.1)	50.8 (4.4)	23.0 (9.1)	16.3 (6.5)
4	7.1 (1.5)	3.6 (0.6)	24.2 (7.3)	17.3 (5.2)	24.7 (4.8)	17.7 (3.4)	56.3 (8.2)	40.4 (5.9)	69.5 (13.2)	49.9 (9.5)	15.4 (6.4)	10.9 (4.5)
5	4.0 (2.6)	4.0 (2.3)	19.0 (5.8)	13.6 (4.1)	20.0 (5.1)	14.4 (3.6)	52.2 (6.8)	37.4 (4.9)	48.0 (7.0)	34.4 (5.0)	12.1 (4.9)	8.6 (3.4)
6	0.9 (0.3)	0.4 (0.3)	13.3 (3.2)	9.6 (2.3)	16.1 (2.7)	11.5 (1.9)	33.7 (7.8)	24.1 (5.5)	39.7 (5.2)	28.6 (3.8)	22.1 (5.4)	15.8 (3.9)
7	1.1 (0.4)	0.5 (0.2)	12.6 (2.5)	9.1 (1.8)	15.7 (2.1)	11.3 (1.5)	27.9 (2.8)	20.0 (2.0)	35.2 (4.7)	25.3 (3.4)	18.7 (8.6)	13.4 (6.1)
8	0.6 (0.4)	0.2 (0.2)	18.1 (2.0)	13.0 (1.4)	20.9 (2.6)	15.0 (1.9)	32.0 (1.5)	23.0 (1.0)	31.2 (6.2)	22.4 (4.5)	8.8 (4.7)	6.3 (3.4)
9	0.9 (0.6)	0.2 (0.3)	23.6 (3.9)	16.9 (2.8)	24.2 (4.6)	17.4 (3.3)	51.1 (8.4)	36.6 (6.0)	45.8 (4.7)	32.8 (3.4)	8.9 (3.0)	6.3 (2.1)
10	1.3 (0.2)	0.6 (0.1)	19.8 (4.9)	14.2 (3.5)	22.2 (3.7)	15.9 (2.7)	52.7 (7.4)	37.8 (5.3)	53.9 (6.5)	38.8 (4.7)	14.8 (12.0)	10.6 (8.6)
11	-0.1 (0.2)	-0.4 (0.2)	19.3 (2.3)	13.9 (1.6)	19.5 (2.5)	13.9 (1.8)	35.5 (6.0)	25.4 (4.3)	51.6 (14.8)	37.0 (10.6)	10.5 (2.2)	7.5 (1.6)
12	0.6 (0.3)	0.7 (0.3)	21.0 (3.3)	15.0 (2.4)	20.3 (2.9)	14.6 (2.1)	51.0 (17.6)	36.5 (12.6)	73.0 (5.4)	52.4 (3.9)	15.0 (7.9)	10.7 (5.6)
13	0.9 (0.3)	1.4 (0.4)	22.4 (4.4)	16.0 (3.1)	20.2 (3.9)	14.5 (2.8)	45.0 (6.8)	32.3 (4.9)	64.7 (8.7)	46.5 (6.2)	23.8 (19.7)	16.9 (14.0)
14	1.2 (0.5)	2.1 (0.5)	22.1 (4.9)	15.8 (3.5)	20.5 (3.3)	14.7 (2.4)	50.7 (7.4)	36.3 (5.3)	61.0 (8.6)	43.8 (6.2)	25.5 (19.7)	18.2 (14.0)
15	0.9 (0.5)	1.7 (0.5)	24.9 (2.7)	17.8 (1.9)	23.4 (1.5)	16.8 (1.1)	34.4 (3.9)	24.6 (2.8)	50.9 (2.4)	36.6 (1.7)	19.3 (14.2)	13.8 (10.1)
16	1.3 (1.2)	1.3 (0.4)	25.5 (6.7)	18.3 (4.8)	24.1 (4.8)	17.3 (3.4)	39.8 (8.7)	28.5 (6.2)	51.3 (5.8)	36.8 (4.2)	44.5 (47.7)	31.7 (34.1)
17	1.7 (1.1)	2.7 (1.9)	19.4 (6.7)	13.9 (4.8)	18.6 (5.8)	13.3 (4.1)	45.2 (10.1)	32.4 (7.3)	46.4 (8.7)	33.3 (6.3)	34.1 (15.0)	24.3 (10.7)
18	0.3 (0.2)	0.0 (0.1)	13.7 (3.4)	9.8 (2.5)	12.6 (6.2)	9.1 (4.5)	36.7 (6.5)	26.3 (4.7)				
19	-0.1 (0.1)	0.0 (0.1)										
20	-0.1 (0.1)	-0.1 (0.1)	16.0 (2.6)	11.4 (1.9)	16.1 (4.0)	11.5 (2.9)			25.2 (2.3)	18.0 (1.6)	4.2 (1.4)	3.0 (1.0)
21	0.4 (0.5)	0.2 (0.3)	13.8 (4.5)	9.8 (3.3)	15.1 (2.6)	10.8 (1.9)	27.7 (4.3)	19.8 (3.0)	31.7 (3.6)	22.7 (2.6)	10.2 (6.2)	7.2 (4.4)
22	0.9 (0.6)	0.8 (0.7)	13.2 (1.6)	9.4 (1.2)	19.0 (1.7)	13.6 (1.2)	21.2 (2.4)	15.1 (1.7)	31.7 (1.2)	22.7 (0.9)	16.0 (14.1)	11.4 (10.0)
23	-0.2 (0.1)	-0.4 (0.0)	14.3 (3.6)	10.2 (2.6)	22.0 (4.1)	15.8 (2.9)	20.6 (2.1)	14.7 (1.5)	39.7 (3.8)	28.4 (2.7)	1.9 (0.3)	1.4 (0.2)
24	0.1 (0.4)	-0.1 (0.4)	11.7 (2.4)	8.4 (1.7)	18.1 (4.6)	13.0 (3.3)	22.9 (2.7)	16.4 (1.9)	39.1 (6.0)	28.0 (4.3)	5.4 (3.5)	3.9 (2.5)
25	0.8 (0.7)	1.1 (1.1)	10.0 (2.0)	7.2 (1.4)	15.3 (3.4)	11.0 (2.4)	20.6 (3.2)	14.7 (2.3)	35.8 (5.8)	25.7 (4.2)	14.5 (3.8)	10.3 (2.7)
26	0.7 (0.5)	0.3 (0.5)	9.8 (1.8)	7.0 (1.3)	14.6 (1.9)	10.5 (1.3)	18.5 (2.7)	13.2 (2.0)	33.2 (3.1)	23.8 (2.2)	18.8 (17.9)	13.4 (12.8)
27	1.6 (1.1)	1.5 (1.3)										
28	0.3 (0.2)	0.2 (0.2)										
29	-0.1 (0.1)	0.0 (0.3)	12.6 (2.0)	9.0 (1.4)	21.3 (2.1)	15.3 (1.5)	13.5 (2.4)	9.7 (1.7)	38.1 (3.2)	27.3 (2.4)	7.2 (1.9)	5.1 (1.3)
30	0.2 (0.2)	0.2 (0.3)	16.1 (3.5)	11.5 (2.5)	24.1 (5.3)	17.3 (3.8)	18.6 (3.8)	13.3 (2.8)	44.7 (2.8)	32.0 (2.0)	8.2 (2.6)	5.8 (1.8)
31	0.6 (0.4)	0.7 (1.1)	15.1 (2.5)	10.8 (1.8)	22.4 (2.3)	16.1 (1.7)	26.2 (4.9)	18.8 (3.6)	54.8 (6.1)	39.4 (4.4)	6.3 (2.3)	4.5 (1.6)
Avg	1.14	0.9	17.9	12.8	20.2	14.5	36.3	26	47.3	33.9	15	10.7
n	31	31	28	28	28	28	27	27	27	27	27	27
SD	1.48	1.13	4.87	3.49	3.65	2.62	13.5	9.68	12.9	9.3	9.36	6.67
Min	-0.2	-0.4	9.8	7.0	12.6	9.1	13.5	9.7	25.2	18.0	1.9	1.4
Max	7.1	4.0	25.6	18.4	26.7	19.1	62.5	44.8	73.0	52.4	44.5	31.7

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for April, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.8 (0.4)	1.0 (0.6)	13.8 (3.6)	9.9 (2.6)	17.9 (5.1)	12.9 (3.7)	27.7 (5.1)	19.8 (3.6)	45.7 (8.7)	32.8 (6.3)	14.2 (4.9)	10.1 (3.5)
2	0.8 (0.7)	1.2 (1.4)	12.1 (1.9)	8.7 (1.4)	13.2 (2.4)	9.5 (1.8)	24.1 (5.2)	17.2 (3.7)	31.1 (7.3)	22.3 (5.2)	12.1 (10.5)	8.6 (7.5)
3	0.0 (0.2)	-0.3 (0.2)	10.6 (2.5)	7.6 (1.8)	11.2 (2.1)	8.0 (1.5)	16.2 (3.0)	11.6 (2.1)	24.6 (2.6)	17.6 (1.8)	7.1 (3.4)	5.1 (2.4)
4	0.2 (0.2)	-0.1 (0.2)	13.2 (3.7)	9.4 (2.7)	12.2 (1.9)	8.8 (1.4)	16.8 (4.6)	12.0 (3.3)	26.2 (2.2)	18.8 (1.6)	9.1 (3.7)	6.5 (2.7)
5	0.1 (0.1)	0.0 (0.1)	15.0 (2.2)	10.7 (1.6)	16.3 (1.8)	11.7 (1.3)	12.8 (1.4)	9.2 (1.0)	27.4 (1.2)	19.6 (0.9)	2.1 (0.7)	1.5 (0.5)
6	-0.1 (0.1)	-0.2 (0.1)	15.5 (3.5)	11.1 (2.5)	19.3 (3.2)	13.8 (2.3)	17.9 (3.8)	12.8 (2.7)	37.2 (4.6)	26.6 (3.3)	4.3 (1.2)	3.0 (0.8)
7	0.1 (0.1)	-0.2 (0.1)	14.0 (2.9)	10.0 (2.1)	16.9 (3.5)	12.1 (2.5)	19.2 (2.5)	13.7 (1.8)	43.2 (5.9)	30.9 (4.2)	7.1 (2.6)	5.0 (1.9)
8	0.0 (0.1)	-0.2 (0.0)	13.8 (2.7)	9.9 (2.0)	14.9 (3.0)	10.7 (2.2)	21.6 (3.4)	15.4 (2.5)	39.9 (6.3)	28.6 (4.5)	15.1 (4.5)	10.8 (3.2)
9	0.1 (0.1)	-0.4 (0.1)	11.4 (2.5)	8.1 (1.8)	11.6 (3.0)	8.3 (2.2)	16.0 (6.3)	11.5 (4.5)	26.5 (7.6)	19.0 (5.4)	22.1 (13.8)	15.7 (9.9)
10	0.1 (0.1)	-0.3 (0.1)	9.1 (1.5)	6.5 (1.1)	9.6 (1.4)	6.9 (1.0)	11.6 (2.0)	8.3 (1.4)	16.3 (1.6)	11.6 (1.1)	3.5 (3.9)	2.5 (2.8)
11	0.1 (0.1)	-0.1 (0.1)	10.7 (2.2)	7.6 (1.6)	10.3 (2.1)	7.4 (1.5)	12.1 (1.8)	8.7 (1.3)	16.3 (1.7)	11.7 (1.2)	7.0 (2.5)	5.0 (1.8)
12	0.1 (0.4)	-0.1 (0.4)	13.1 (2.0)	9.4 (1.4)	13.2 (1.4)	9.5 (1.0)	15.8 (1.2)	11.3 (0.9)	15.9 (0.5)	11.3 (0.4)	7.8 (8.2)	5.6 (5.9)
13	-0.2 (0.1)	-0.3 (0.1)	14.2 (2.5)	10.2 (1.8)	16.2 (2.3)	11.6 (1.6)	18.6 (1.1)	13.3 (0.8)	22.8 (3.0)	16.3 (2.2)	2.0 (0.6)	1.4 (0.4)
14	0.4 (0.2)	0.2 (0.3)	13.3 (2.3)	9.5 (1.7)	15.2 (2.6)	10.9 (1.8)	19.3 (2.8)	13.8 (2.0)	27.1 (2.4)	19.4 (1.7)	7.2 (3.6)	5.1 (2.6)
15	0.7 (0.3)	0.6 (0.2)	13.5 (2.5)	9.7 (1.8)	14.2 (2.6)	10.2 (1.9)	23.2 (3.8)	16.6 (2.7)	31.9 (4.6)	22.8 (3.3)	17.3 (15.8)	12.4 (11.3)
16	0.9 (0.3)	0.4 (0.3)	11.0 (3.0)	7.9 (2.1)	12.8 (2.0)	9.2 (1.4)	22.8 (5.1)	16.3 (3.7)	30.6 (5.6)	21.9 (4.0)	16.6 (15.6)	11.8 (11.1)
17	0.9 (0.4)	0.4 (0.3)			11.6 (4.1)	8.3 (2.9)					26.4 (16.2)	18.9 (11.6)
18	1.2 (0.5)	0.4 (0.3)	8.1 (2.9)	5.8 (2.0)	8.6 (2.6)	6.2 (1.9)	13.1 (2.6)	9.4 (1.9)	17.6 (3.4)	12.6 (2.5)	40.6 (15.8)	29.0 (11.3)
19	0.4 (0.4)	0.0 (0.2)	9.4 (1.8)	6.7 (1.3)	12.8 (1.7)	9.2 (1.2)	10.5 (0.9)	7.5 (0.6)	17.8 (0.5)	12.8 (0.4)	9.8 (13.9)	7.0 (9.9)
20	0.3 (0.2)	-0.1 (0.1)	14.0 (2.0)	10.0 (1.5)	15.0 (2.6)	10.8 (1.9)	13.7 (1.3)	9.8 (0.9)	22.0 (1.5)	15.8 (1.1)	9.8 (2.7)	7.0 (1.9)
21	0.0 (0.1)	-0.3 (0.1)	15.4 (2.8)	11.0 (2.0)	15.2 (2.0)	10.9 (1.5)	15.9 (2.1)	11.4 (1.5)	26.2 (2.7)	18.8 (2.0)	9.3 (1.1)	6.6 (0.8)
22	0.2 (0.2)	-0.1 (0.4)	13.9 (4.6)	10.0 (3.3)	13.9 (3.5)	9.9 (2.5)	17.9 (3.2)	12.8 (2.3)	28.8 (4.9)	20.6 (3.5)	9.1 (2.7)	6.5 (1.9)
23	0.5 (0.3)	0.2 (0.4)	10.0 (3.5)	7.2 (2.5)	11.5 (2.1)	8.2 (1.5)	16.4 (3.1)	11.8 (2.2)	22.3 (5.0)	16.0 (3.5)	11.3 (7.0)	8.0 (5.0)
24	0.8 (0.7)	0.8 (0.9)	5.3 (2.9)	3.8 (2.1)	6.6 (4.1)	4.7 (2.9)	9.4 (3.6)	6.7 (2.6)	13.1 (5.7)	9.4 (4.1)	8.5 (1.7)	6.1 (1.3)
25	0.3 (0.1)	0.0 (0.3)	3.7 (0.8)	2.6 (0.6)	4.5 (1.1)	3.2 (0.8)	4.3 (0.5)	3.1 (0.4)	6.9 (1.9)	5.0 (1.3)	9.5 (2.9)	6.8 (2.1)
26	0.7 (0.4)	0.7 (0.7)	4.8 (1.2)	3.4 (0.9)	6.3 (1.4)	4.5 (1.0)	4.4 (0.8)	3.2 (0.6)	7.4 (1.8)	5.3 (1.3)	12.5 (5.2)	8.9 (3.7)
27	0.8 (0.6)	1.1 (1.2)	4.5 (1.6)	3.2 (1.1)	7.2 (2.6)	5.2 (1.9)	5.3 (0.5)	3.8 (0.4)	8.5 (2.0)	6.1 (1.5)	8.6 (2.3)	6.2 (1.6)
28	0.1 (0.3)	-0.1 (0.2)	5.3 (0.6)	3.8 (0.4)	9.3 (0.7)	6.7 (0.5)	6.0 (1.0)	4.3 (0.8)	9.3 (1.5)	6.7 (1.1)	4.2 (3.7)	3.0 (2.7)
29	-0.2 (0.1)	-0.2 (0.1)	6.5 (0.8)	4.6 (0.6)	10.6 (1.7)	7.6 (1.2)	7.6 (2.1)	5.4 (1.5)	12.8 (1.2)	9.2 (0.9)	1.1 (0.2)	0.8 (0.2)
30	0.5 (0.4)	0.6 (0.6)	6.6 (1.0)	4.8 (0.7)	10.1 (1.6)	7.2 (1.1)	10.2 (2.9)	7.3 (2.1)	14.8 (2.9)	10.6 (2.1)	4.8 (2.5)	3.4 (1.8)
Avg	0.35	0.16	10.7	7.69	12.3	8.79	14.9	10.6	23.1	16.6	10.7	7.6
n	30	30	29	29	30	30	29	29	29	29	30	30
SD	0.36	0.44	3.63	2.6	3.52	2.52	6.02	4.31	10.3	7.39	7.91	5.65
Min	-0.2	-0.4	3.7	2.6	4.5	3.2	4.3	3.1	6.9	5.0	1.1	0.8
Max	1.2	1.2	15.5	11.1	19.3	13.8	27.7	19.8	45.7	32.8	40.6	29.0

Table F12. Daily means (SD) of NH3 concentrations at site IN2B for May, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.3 (0.2)	0.0 (0.1)	6.8 (1.5)	4.9 (1.1)	10.5 (2.1)	7.5 (1.5)	11.6 (2.3)	8.3 (1.7)	19.1 (3.7)	13.7 (2.6)	8.4 (4.1)	6.0 (2.9)
2	0.1 (0.1)	-0.3 (0.1)	6.8 (1.4)	4.9 (1.0)	9.4 (1.7)	6.8 (1.2)	9.2 (2.1)	6.6 (1.5)	16.1 (4.2)	11.5 (3.0)	11.8 (6.0)	8.4 (4.3)
3	0.7 (0.8)	0.1 (0.3)	6.9 (1.0)	5.0 (0.7)	10.4 (1.2)	7.5 (0.9)	8.1 (0.8)	5.8 (0.6)	13.1 (1.1)	9.3 (0.8)	14.9 (6.8)	10.6 (4.8)
4	0.3 (0.5)	0.0 (0.1)	6.1 (1.9)	4.4 (1.4)	10.5 (2.8)	7.5 (2.0)	6.5 (1.0)	4.6 (0.7)	11.9 (1.7)	8.5 (1.2)	2.7 (3.1)	2.0 (2.2)
5	0.2 (0.1)	0.2 (0.4)	5.3 (1.1)	3.8 (0.8)	8.6 (1.5)	6.2 (1.1)	5.5 (1.0)	3.9 (0.7)	10.5 (1.1)	7.5 (0.8)	4.6 (3.4)	3.3 (2.4)
6	0.2 (0.3)	0.1 (0.2)	5.4 (0.7)	3.9 (0.5)	8.4 (0.9)	6.0 (0.7)	5.6 (0.7)	4.0 (0.5)	8.0 (1.5)	5.7 (1.1)	5.1 (4.5)	3.6 (3.2)
7	1.0 (0.6)	1.3 (1.3)	6.1 (1.6)	4.4 (1.1)	9.6 (1.6)	6.9 (1.1)	9.6 (2.2)	6.9 (1.6)	15.5 (5.3)	11.2 (3.8)	9.1 (2.3)	6.5 (1.6)
8	0.8 (0.3)	0.6 (0.9)	6.4 (1.0)	4.6 (0.7)	11.1 (1.9)	8.0 (1.4)	10.6 (1.3)	7.6 (0.9)	20.9 (2.2)	15.1 (1.6)	11.2 (3.4)	8.1 (2.5)
9	0.1 (0.3)	-0.1 (0.3)	6.8 (1.4)	4.9 (1.0)	10.3 (2.2)	7.4 (1.6)	8.2 (2.1)	5.9 (1.5)	14.9 (2.7)	10.7 (2.0)	6.6 (2.0)	4.7 (1.4)
10	0.1 (0.2)	-0.1 (0.2)	8.1 (0.9)	5.8 (0.6)	12.6 (1.4)	9.0 (1.0)	7.5 (1.3)	5.4 (0.9)	12.9 (1.7)	9.2 (1.2)	6.2 (2.0)	4.4 (1.4)
11	0.2 (0.2)	0.3 (0.2)	8.5 (2.2)	6.1 (1.6)	14.1 (2.8)	10.1 (2.0)	8.6 (1.5)	6.2 (1.1)	21.7 (4.9)	15.5 (3.5)	3.7 (1.5)	2.6 (1.1)
12	0.0 (0.2)	0.0 (0.5)	7.0 (2.2)	5.0 (1.6)	11.2 (2.6)	8.0 (1.9)	7.2 (1.7)	5.1 (1.2)	15.9 (6.2)	11.4 (4.4)	3.8 (2.3)	2.7 (1.6)
13	0.8 (0.8)	1.1 (1.4)	6.6 (0.6)	4.7 (0.5)	10.6 (1.5)	7.6 (1.0)	7.2 (1.5)	5.2 (1.1)	12.9 (2.5)	9.3 (1.8)	3.7 (1.0)	2.6 (0.7)
14	0.6 (0.7)	0.9 (1.4)	6.4 (1.4)	4.6 (1.0)	9.7 (1.9)	7.0 (1.4)	8.6 (1.4)	6.2 (1.0)	22.3 (2.7)	16.0 (2.0)	6.0 (1.3)	4.3 (0.9)
15	0.4 (0.2)	0.0 (0.1)	6.7 (1.3)	4.8 (0.9)	10.1 (1.7)	7.3 (1.2)	7.0 (1.6)	5.0 (1.2)	19.7 (2.6)	14.1 (1.9)	3.7 (2.5)	2.6 (1.8)
16	0.2 (0.3)	-0.1 (0.2)	6.8 (1.3)	4.8 (0.9)	10.7 (1.8)	7.7 (1.3)	9.0 (2.6)	6.5 (1.9)	21.5 (3.2)	15.4 (2.3)	5.0 (1.9)	3.6 (1.4)
17	-0.1 (0.2)	-0.2 (0.2)	8.3 (1.2)	6.0 (0.9)	12.4 (1.2)	8.9 (0.9)	6.1 (0.5)	4.3 (0.4)	19.0 (2.2)	13.5 (1.6)	4.2 (2.3)	3.0 (1.7)
18	0.5 (0.5)	0.3 (0.8)	8.8 (2.7)	6.3 (1.9)	13.1 (3.5)	9.3 (2.5)	7.9 (1.1)	5.6 (0.8)	18.0 (2.5)	12.9 (1.8)	5.4 (2.6)	3.9 (1.8)
19	0.6 (0.4)	1.5 (0.4)	6.1 (2.1)	4.3 (1.5)	8.9 (2.7)	6.4 (1.9)	8.4 (1.8)	6.0 (1.3)	15.6 (2.3)	11.1 (1.7)	7.3 (2.9)	5.2 (2.1)
20	0.4 (0.4)	1.1 (0.4)	3.9 (2.1)	2.8 (1.5)	6.0 (2.9)	4.3 (2.1)	6.2 (2.4)	4.4 (1.7)	10.7 (4.4)	7.7 (3.1)	7.2 (3.4)	5.1 (2.4)
21	0.2 (0.2)	0.3 (0.3)	2.8 (1.2)	2.0 (0.8)	4.0 (1.6)	2.8 (1.1)	4.3 (1.0)	3.0 (0.7)	5.9 (1.5)	4.2 (1.0)	5.3 (1.4)	3.8 (1.0)
22	0.3 (0.3)	0.0 (0.2)	2.8 (0.5)	2.0 (0.3)	4.2 (1.0)	3.0 (0.7)	4.1 (0.6)	2.9 (0.4)	5.6 (1.1)	4.0 (0.8)	2.8 (2.3)	2.0 (1.7)
23	0.4 (0.7)	0.3 (0.6)	3.3 (0.5)	2.4 (0.4)	4.6 (1.3)	3.3 (1.0)	4.5 (0.9)	3.3 (0.6)	5.5 (1.2)	4.0 (0.9)	5.8 (7.4)	4.2 (5.3)
24	0.9 (0.4)	0.3 (0.3)	3.7 (0.5)	2.7 (0.4)	5.4 (1.0)	3.9 (0.7)	4.4 (0.4)	3.1 (0.3)	6.1 (0.9)	4.4 (0.7)	3.0 (1.4)	2.1 (1.0)
25	-0.4 (0.2)	-0.6 (0.1)	3.7 (0.9)	2.7 (0.6)	6.9 (1.8)	5.0 (1.3)	5.1 (1.1)	3.6 (0.8)	7.5 (1.1)	5.4 (0.8)	0.4 (0.3)	0.3 (0.2)
26	0.3 (0.6)	0.1 (0.6)	3.7 (0.6)	2.6 (0.4)	6.0 (1.5)	4.3 (1.1)	5.9 (1.1)	4.3 (0.8)	8.0 (1.0)	5.7 (0.7)	1.6 (1.2)	1.2 (0.9)
27	0.7 (0.3)	0.8 (0.4)	4.1 (1.3)	3.0 (0.9)	5.8 (2.0)	4.2 (1.5)	6.4 (1.1)	4.6 (0.8)	8.5 (1.8)	6.1 (1.3)	4.0 (0.8)	2.9 (0.6)
28	0.3 (0.2)	0.0 (0.3)	4.3 (1.2)	3.1 (0.9)	7.1 (0.9)	5.1 (0.7)	7.7 (1.1)	5.5 (0.8)	10.2 (1.3)	7.3 (0.9)	4.1 (1.8)	2.9 (1.3)
29	0.1 (0.2)	-0.3 (0.1)	4.9 (1.4)	3.5 (1.0)	7.4 (1.6)	5.3 (1.1)	8.8 (2.4)	6.3 (1.7)	11.8 (3.0)	8.5 (2.2)	3.6 (0.8)	2.6 (0.6)
30	0.0 (0.1)	-0.3 (0.2)	4.5 (1.4)	3.2 (1.0)	6.6 (1.8)	4.7 (1.3)	7.9 (1.9)	5.7 (1.3)	10.8 (2.3)	7.7 (1.6)	4.7 (2.0)	3.4 (1.4)
31	-0.1 (0.2)	-0.3 (0.1)	4.7 (0.5)	3.3 (0.3)	7.8 (0.9)	5.6 (0.7)	5.3 (0.7)	3.8 (0.5)	8.7 (1.4)	6.2 (1.0)	2.9 (2.1)	2.1 (1.5)
Avg	0.33	0.23	5.69	4.07	8.84	6.33	7.19	5.14	13.2	9.45	5.44	3.89
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.32	0.5	1.67	1.2	2.66	1.9	1.86	1.34	5.17	3.71	3.02	2.16
Min	-0.4	-0.6	2.8	2.0	4.0	2.8	4.1	2.9	5.5	4.0	0.4	0.3
Max	1.0	1.5	8.8	6.3	14.1	10.1	11.6	8.3	22.3	16.0	14.9	10.6

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for June, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.8 (0.3)	0.7 (0.8)	5.6 (1.1)	4.0 (0.8)	8.4 (2.2)	6.1 (1.6)	6.8 (1.5)	4.9 (1.1)	11.8 (4.6)	8.5 (3.3)	3.9 (1.4)	2.8 (1.0)
2	0.6 (0.3)	0.1 (0.2)	6.0 (0.7)	4.3 (0.5)	9.6 (1.1)	6.9 (0.8)	8.1 (1.0)	5.8 (0.7)	13.2 (1.5)	9.5 (1.1)	2.5 (1.8)	1.8 (1.3)
3	0.3 (0.2)	-0.1 (0.2)	6.6 (1.0)	4.7 (0.7)	9.7 (1.9)	7.0 (1.4)	9.2 (1.3)	6.6 (0.9)	11.3 (2.1)	8.1 (1.5)	1.6 (1.0)	1.1 (0.7)
4	0.6 (0.4)	0.1 (0.2)	7.0 (1.5)	5.0 (1.1)	8.7 (1.5)	6.3 (1.1)	9.0 (1.8)	6.5 (1.3)	12.5 (3.6)	9.0 (2.6)	2.0 (1.4)	1.4 (1.0)
5	0.7 (0.7)	0.2 (0.4)	6.0 (2.1)	4.3 (1.5)	7.0 (2.2)	5.0 (1.6)	10.7 (1.5)	7.7 (1.1)	13.0 (2.6)	9.3 (1.9)	5.1 (2.1)	3.7 (1.5)
6	0.2 (0.3)	0.1 (0.3)	4.5 (1.5)	3.2 (1.1)	5.3 (1.9)	3.8 (1.4)	8.4 (1.9)	6.1 (1.4)	8.9 (2.7)	6.4 (1.9)	5.0 (2.0)	3.6 (1.4)
7	0.2 (0.2)	0.5 (0.3)	5.3 (0.7)	3.8 (0.5)	5.9 (0.9)	4.3 (0.7)	6.1 (0.7)	4.4 (0.5)	6.6 (0.7)	4.7 (0.5)	2.8 (1.0)	2.0 (0.7)
8	0.5 (0.2)	1.6 (1.5)	6.2 (1.5)	4.4 (1.1)	7.4 (2.0)	5.3 (1.4)	9.1 (1.2)	6.5 (0.9)	9.6 (1.8)	6.9 (1.3)	2.7 (0.8)	1.9 (0.5)
9	0.5 (0.2)	0.6 (0.3)	6.0 (1.4)	4.3 (1.0)	8.0 (1.8)	5.7 (1.3)	12.2 (3.1)	8.8 (2.3)	14.5 (2.6)	10.4 (1.9)	2.3 (0.8)	1.7 (0.6)
10	0.5 (0.3)	0.0 (0.3)	5.9 (1.2)	4.3 (0.9)	7.6 (2.0)	5.5 (1.4)	12.2 (2.2)	8.8 (1.6)	13.0 (1.6)	9.3 (1.2)	1.1 (0.2)	0.8 (0.2)
11	0.5 (0.2)	0.1 (0.1)										
12	1.0 (0.4)	0.7 (0.3)	5.7 (1.5)	4.1 (1.1)	7.6 (2.6)	5.5 (1.9)	11.4 (2.5)	8.2 (1.8)	12.1 (3.4)	8.7 (2.4)	3.1 (2.8)	2.2 (2.0)
13	0.4 (0.2)	0.0 (0.1)	4.9 (1.5)	3.5 (1.1)	6.0 (2.1)	4.3 (1.5)	10.2 (2.6)	7.3 (1.8)	9.1 (2.9)	6.5 (2.1)	2.7 (2.1)	2.0 (1.5)
14	0.7 (0.7)	0.3 (0.5)	5.4 (0.8)	3.9 (0.6)	6.6 (0.9)	4.8 (0.7)	7.7 (1.0)	5.5 (0.7)	7.3 (0.9)	5.2 (0.7)	2.2 (1.1)	1.6 (0.8)
15	1.0 (0.4)	0.1 (0.1)	5.5 (2.2)	4.0 (1.6)	6.8 (2.6)	4.9 (1.9)	8.3 (1.2)	6.0 (0.9)	9.2 (1.6)	6.6 (1.2)	1.8 (0.9)	1.3 (0.7)
16	0.1 (0.2)	-0.2 (0.2)	4.9 (0.4)	3.5 (0.3)	6.4 (0.9)	4.6 (0.7)	8.4 (1.0)	6.0 (0.8)	8.2 (0.7)	5.9 (0.5)	1.1 (0.3)	0.8 (0.2)
17	0.5 (0.1)	0.3 (0.1)	5.7 (1.3)	4.1 (0.9)	7.4 (2.1)	5.3 (1.5)	9.3 (1.3)	6.7 (0.9)	11.4 (1.7)	8.2 (1.2)	3.4 (1.0)	2.4 (0.8)
18	0.8 (0.3)	0.6 (0.3)	6.3 (1.5)	4.6 (1.1)	8.0 (2.1)	5.7 (1.5)	11.1 (1.4)	8.0 (1.0)	11.9 (1.0)	8.5 (0.7)	3.9 (1.9)	2.8 (1.4)
19	1.5 (0.7)	1.8 (0.9)	4.9 (1.3)	3.6 (1.0)	6.0 (1.8)	4.4 (1.3)	11.1 (1.1)	8.0 (0.8)	11.0 (2.3)	8.0 (1.7)	3.9 (1.3)	2.8 (1.0)
20	1.6 (1.1)	1.4 (1.0)	4.2 (0.8)	3.1 (0.6)	4.8 (1.6)	3.5 (1.1)	8.9 (1.7)	6.4 (1.3)	10.7 (2.8)	7.7 (2.0)	9.0 (3.9)	6.5 (2.8)
21	1.7 (0.6)	1.7 (0.7)	4.4 (0.6)	3.2 (0.4)	4.9 (0.5)	3.5 (0.4)	6.6 (0.5)	4.8 (0.4)	7.4 (1.2)	5.3 (0.9)	12.8 (6.4)	9.2 (4.6)
22	0.8 (0.3)	0.5 (0.2)	3.8 (0.9)	2.8 (0.6)	4.9 (1.7)	3.6 (1.2)	7.2 (1.1)	5.2 (0.8)	8.1 (1.6)	5.8 (1.1)	3.5 (1.2)	2.5 (0.9)
23	1.3 (1.1)	1.1 (1.0)	3.2 (0.7)	2.3 (0.5)	3.8 (1.3)	2.7 (0.9)	6.9 (1.0)	5.0 (0.7)	6.9 (1.6)	5.0 (1.2)	3.9 (1.8)	2.8 (1.3)
24	1.3 (0.6)	1.1 (0.3)	2.5 (0.5)	1.8 (0.3)	2.2 (0.3)	1.5 (0.2)	4.1 (0.4)	3.0 (0.3)	3.7 (0.5)	2.6 (0.4)	5.5 (1.2)	4.0 (0.9)
25												
26												
27	0.4 (0.5)	0.2 (0.4)	1.1 (0.2)	0.8 (0.1)	1.1 (0.2)	0.8 (0.1)	2.3 (0.4)	1.7 (0.3)	2.0 (0.2)	1.5 (0.2)	6.1 (3.9)	4.4 (2.8)
28												
29												
30												
Avg	0.73	0.54	5.08	3.65	6.43	4.62	8.55	6.14	9.72	6.98	3.83	2.75
n	25	25	24	24	24	24	24	24	24	24	24	24
SD	0.44	0.57	1.33	0.95	2.08	1.49	2.35	1.69	3.01	2.16	2.56	1.84
Min	0.1	-0.2	1.1	0.8	1.1	0.8	2.3	1.7	2.0	1.5	1.1	0.8
Max	1.7	1.8	7.0	5.0	9.7	7.0	12.2	8.8	14.5	10.4	12.8	9.2

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for July, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1												
2												
3												
4												
5												
6												
7	0.4 (0.3)	0.3 (0.2)	3.5 (1.4)	2.5 (1.0)	4.4 (1.9)	3.1 (1.4)	7.0 (2.0)	5.0 (1.4)	8.1 (3.3)	5.8 (2.4)	3.7 (2.7)	2.7 (1.9)
8	0.3 (0.2)	0.2 (0.2)	3.4 (0.6)	2.4 (0.4)	4.1 (0.9)	2.9 (0.6)	4.8 (0.3)	3.4 (0.2)	5.3 (1.0)	3.8 (0.7)	2.3 (1.1)	1.7 (0.8)
9	0.4 (0.4)	0.2 (0.2)	3.3 (1.3)	2.4 (0.9)	4.5 (1.7)	3.2 (1.2)	5.0 (1.1)	3.6 (0.8)	6.4 (1.8)	4.6 (1.3)	1.7 (0.9)	1.2 (0.6)
10	0.8 (0.3)	0.8 (0.4)	3.0 (1.1)	2.2 (0.8)	4.0 (1.5)	2.9 (1.1)	5.7 (1.0)	4.1 (0.7)	5.4 (0.8)	3.9 (0.6)	3.5 (1.0)	2.5 (0.7)
11	1.1 (0.4)	1.2 (0.6)	3.4 (0.8)	2.5 (0.6)	4.3 (0.9)	3.1 (0.6)	6.5 (1.0)	4.7 (0.7)	6.6 (0.7)	4.8 (0.5)	4.0 (1.4)	2.9 (1.0)
12	0.6 (0.6)	0.7 (0.5)	4.8 (0.7)	3.4 (0.5)	6.4 (1.1)	4.6 (0.8)	6.3 (0.9)	4.5 (0.7)	8.0 (1.1)	5.7 (0.8)	4.2 (2.1)	3.0 (1.5)
13	0.4 (0.1)	0.4 (0.1)	4.7 (2.0)	3.4 (1.4)	7.1 (2.3)	5.1 (1.7)	6.9 (1.7)	4.9 (1.2)	8.4 (1.5)	6.0 (1.1)	3.3 (1.4)	2.4 (1.0)
14	0.2 (0.2)	-0.1 (0.2)	3.7 (1.2)	2.6 (0.9)	4.9 (2.5)	3.5 (1.8)	5.5 (0.6)	4.0 (0.4)	5.8 (2.4)	4.1 (1.7)	3.0 (1.8)	2.2 (1.3)
15	0.5 (0.1)	0.3 (0.1)	3.5 (1.0)	2.5 (0.7)	4.1 (0.9)	2.9 (0.6)	5.5 (1.0)	4.0 (0.7)	4.3 (0.6)	3.1 (0.4)	4.5 (0.8)	3.3 (0.6)
16	0.2 (0.1)	0.2 (0.1)	3.2 (1.1)	2.3 (0.8)	4.1 (1.6)	3.0 (1.2)	6.1 (1.2)	4.4 (0.9)	5.5 (1.2)	4.0 (0.8)	4.1 (0.9)	3.0 (0.6)
17	0.2 (0.2)	0.0 (0.2)	3.6 (0.8)	2.6 (0.6)	5.0 (1.2)	3.6 (0.8)	6.2 (1.1)	4.4 (0.8)	8.4 (1.1)	6.0 (0.8)	3.8 (0.6)	2.7 (0.4)
18	0.2 (0.1)	0.1 (0.1)	4.4 (1.0)	3.1 (0.7)	5.8 (1.2)	4.2 (0.9)	7.3 (1.3)	5.3 (0.9)	10.0 (1.0)	7.2 (0.7)	4.2 (1.2)	3.0 (0.9)
19	0.3 (0.1)	0.2 (0.1)	5.9 (0.8)	4.2 (0.6)	7.7 (1.2)	5.5 (0.9)	6.5 (0.4)	4.7 (0.3)	7.8 (0.7)	5.6 (0.5)	4.4 (1.7)	3.2 (1.2)
20	0.6 (0.2)	0.3 (0.1)	6.3 (2.5)	4.6 (1.8)	8.4 (3.5)	6.0 (2.5)	9.1 (1.5)	6.5 (1.1)	9.7 (2.1)	7.0 (1.5)	4.1 (2.0)	2.9 (1.4)
21	0.8 (0.3)	0.5 (0.3)	4.6 (1.9)	3.3 (1.3)	5.7 (2.3)	4.1 (1.6)	8.0 (2.1)	5.7 (1.5)	9.7 (2.0)	7.0 (1.5)	4.9 (3.2)	3.5 (2.3)
22	0.6 (0.2)	0.5 (0.3)	4.7 (0.6)	3.4 (0.5)	5.7 (0.8)	4.1 (0.6)	6.8 (0.6)	4.9 (0.5)	7.8 (0.9)	5.6 (0.6)	3.5 (1.2)	2.5 (0.9)
23	0.9 (0.2)	0.8 (0.4)	5.1 (1.4)	3.7 (1.0)	5.9 (1.9)	4.3 (1.3)	10.4 (2.2)	7.5 (1.6)	11.7 (3.5)	8.4 (2.6)	5.4 (1.0)	3.9 (0.7)
24	0.6 (0.3)	0.5 (0.5)	4.4 (1.7)	3.2 (1.2)	4.8 (1.9)	3.5 (1.4)	8.9 (2.0)	6.4 (1.4)	8.8 (1.8)	6.4 (1.3)	5.6 (0.6)	4.0 (0.4)
25	0.6 (0.2)	0.4 (0.3)	4.0 (0.8)	2.9 (0.6)	4.8 (1.2)	3.5 (0.9)	9.2 (1.4)	6.6 (1.0)	9.6 (2.2)	6.9 (1.6)	5.5 (1.0)	4.0 (0.7)
26	0.4 (0.1)	0.2 (0.1)	5.4 (0.6)	3.9 (0.4)	6.4 (1.0)	4.6 (0.7)	8.1 (0.8)	5.8 (0.6)	8.4 (1.1)	6.1 (0.8)	6.0 (0.6)	4.3 (0.4)
27	0.5 (0.1)	0.3 (0.2)	5.7 (2.4)	4.1 (1.7)	6.8 (3.1)	4.9 (2.2)	10.9 (1.2)	7.8 (0.8)	10.3 (1.0)	7.4 (0.7)	6.2 (0.6)	4.5 (0.4)
28	0.9 (0.2)	0.9 (0.3)	4.6 (1.3)	3.3 (1.0)	5.2 (1.7)	3.8 (1.2)	10.7 (2.2)	7.7 (1.6)	10.4 (0.8)	7.5 (0.6)	5.4 (1.1)	3.9 (0.8)
29	0.8 (0.3)	0.8 (0.4)	4.8 (1.2)	3.5 (0.9)	5.2 (1.4)	3.7 (1.0)	9.5 (2.4)	6.8 (1.8)	9.9 (2.5)	7.1 (1.8)	4.6 (1.5)	3.3 (1.1)
30	0.7 (0.3)	0.4 (0.3)	4.7 (1.6)	3.4 (1.1)	4.8 (1.7)	3.5 (1.2)	8.4 (1.3)	6.0 (1.0)	8.5 (2.2)	6.1 (1.6)	6.0 (1.6)	4.3 (1.2)
31	0.7 (0.1)	0.6 (0.1)	4.2 (1.2)	3.0 (0.9)	4.6 (1.6)	3.3 (1.2)	8.2 (1.4)	5.9 (1.0)	10.7 (2.1)	7.7 (1.5)	6.1 (2.4)	4.4 (1.7)
Avg	0.54	0.42	4.36	3.13	5.38	3.86	7.49	5.38	8.21	5.9	4.4	3.16
n	25	25	25	25	25	25	25	25	25	25	25	25
SD	0.25	0.29	0.88	0.63	1.16	0.83	1.75	1.26	1.91	1.38	1.17	0.84
Min	0.2	-0.1	3.0	2.2	4.0	2.9	4.8	3.4	4.3	3.1	1.7	1.2
Max	1.1	1.2	6.3	4.6	8.4	6.0	10.9	7.8	11.7	8.4	6.2	4.5

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for August, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.6 (0.3)	0.4 (0.2)	4.1 (1.3)	2.9 (0.9)	4.5 (1.5)	3.2 (1.0)	6.9 (1.0)	4.9 (0.7)	7.6 (1.1)	5.4 (0.8)	5.2 (1.2)	3.7 (0.8)
2	0.4 (0.2)	0.2 (0.2)	6.0 (0.8)	4.3 (0.5)	6.7 (1.1)	4.8 (0.8)	7.1 (0.7)	5.1 (0.5)	8.3 (1.5)	6.0 (1.1)	4.9 (1.4)	3.5 (1.0)
3	0.8 (0.2)	1.2 (0.7)	6.0 (2.5)	4.3 (1.8)	6.8 (2.9)	4.9 (2.1)	9.4 (2.3)	6.8 (1.7)	8.8 (1.7)	6.3 (1.2)	3.3 (0.9)	2.4 (0.6)
4	0.9 (0.2)	0.8 (0.3)	5.0 (1.3)	3.6 (0.9)	5.2 (1.5)	3.8 (1.1)	10.4 (1.5)	7.5 (1.1)	11.1 (1.0)	8.0 (0.7)	5.4 (0.7)	3.9 (0.5)
5	0.9 (0.3)	0.6 (0.3)	4.8 (1.2)	3.5 (0.9)	5.2 (1.6)	3.7 (1.1)	8.3 (1.5)	6.0 (1.1)	9.2 (1.7)	6.6 (1.3)	2.4 (1.0)	1.7 (0.7)
6	0.8 (0.4)	0.8 (0.4)	4.7 (1.3)	3.3 (1.0)	5.0 (1.6)	3.6 (1.1)	8.4 (1.7)	6.0 (1.3)	9.0 (1.6)	6.5 (1.1)	2.8 (1.2)	2.0 (0.9)
7	0.7 (0.2)	0.4 (0.2)	4.5 (1.1)	3.2 (0.8)	4.5 (1.7)	3.3 (1.2)	7.0 (1.4)	5.0 (1.0)	8.4 (1.2)	6.0 (0.9)	2.6 (0.7)	1.9 (0.5)
8	0.9 (0.3)	0.7 (0.2)	3.7 (0.9)	2.7 (0.6)	4.5 (0.7)	3.2 (0.5)	5.6 (0.7)	4.0 (0.5)	6.4 (0.8)	4.6 (0.5)	3.6 (0.8)	2.6 (0.6)
9	1.2 (0.1)	0.9 (0.0)	3.8 (0.4)	2.7 (0.3)	5.4 (0.5)	3.9 (0.4)	5.2 (0.4)	3.7 (0.3)	5.4 (0.3)	3.9 (0.2)	4.4 (0.5)	3.2 (0.4)
10	0.9 (0.2)	0.7 (0.2)	3.5 (1.2)	2.5 (0.9)	4.5 (1.5)	3.2 (1.1)	7.3 (1.5)	5.3 (1.1)	8.4 (1.9)	6.1 (1.4)	4.7 (0.4)	3.4 (0.3)
11	1.3 (0.4)	1.0 (0.4)	3.6 (0.7)	2.6 (0.5)	4.0 (1.0)	2.9 (0.7)	10.7 (1.7)	7.7 (1.2)	12.7 (1.2)	9.1 (0.9)	6.0 (1.6)	4.3 (1.1)
12	2.0 (0.7)	1.7 (0.6)	4.0 (0.7)	2.9 (0.5)	4.2 (0.8)	3.0 (0.6)	9.2 (1.8)	6.6 (1.3)	10.1 (2.5)	7.2 (1.8)	5.9 (3.7)	4.2 (2.7)
13	1.7 (0.7)	1.1 (0.5)	3.9 (0.9)	2.8 (0.7)	4.1 (1.1)	3.0 (0.8)	7.7 (1.7)	5.6 (1.2)	7.9 (1.7)	5.7 (1.2)	5.7 (2.4)	4.1 (1.7)
14	1.4 (0.3)	0.8 (0.1)	3.7 (1.5)	2.7 (1.1)	3.8 (1.7)	2.7 (1.3)	6.3 (1.7)	4.6 (1.2)	6.5 (1.8)	4.7 (1.3)	7.7 (2.3)	5.6 (1.7)
15	1.0 (0.2)	0.5 (0.1)	3.0 (1.1)	2.1 (0.8)	2.9 (1.0)	2.1 (0.7)	5.7 (0.7)	4.1 (0.5)	5.2 (1.3)	3.8 (0.9)	5.8 (1.7)	4.1 (1.2)
16	1.1 (0.3)	0.7 (0.2)	3.5 (0.7)	2.5 (0.5)	3.6 (0.3)	2.6 (0.2)	5.1 (0.7)	3.7 (0.5)	4.6 (0.7)	3.3 (0.5)	6.0 (0.9)	4.3 (0.6)
17	1.5 (0.2)	1.3 (0.2)	4.6 (1.0)	3.3 (0.7)	4.4 (0.8)	3.2 (0.6)	7.3 (1.0)	5.2 (0.7)	7.5 (1.7)	5.4 (1.2)	4.0 (0.8)	2.9 (0.6)
18	1.2 (0.2)	0.7 (0.1)	5.0 (1.3)	3.6 (0.9)	4.3 (1.2)	3.1 (0.9)	9.5 (1.1)	6.8 (0.8)	9.7 (1.2)	7.0 (0.8)	6.7 (0.8)	4.8 (0.6)
19	1.3 (0.3)	1.0 (0.5)	4.6 (1.5)	3.3 (1.1)	4.1 (1.1)	2.9 (0.8)	8.9 (1.5)	6.4 (1.1)	7.0 (1.7)	5.0 (1.2)	4.9 (2.1)	3.5 (1.5)
20	1.2 (0.7)	1.3 (1.1)	4.6 (1.6)	3.3 (1.1)	4.1 (1.3)	2.9 (0.9)	8.5 (1.6)	6.1 (1.1)	8.5 (1.7)	6.1 (1.2)	5.0 (0.9)	3.6 (0.7)
21	0.6 (0.1)	0.4 (0.2)	4.6 (1.4)	3.3 (1.0)	4.2 (1.2)	3.0 (0.9)	8.9 (1.3)	6.4 (0.9)	8.6 (1.4)	6.2 (1.0)	5.6 (0.8)	4.0 (0.6)
22	0.6 (0.1)	0.5 (0.2)	5.1 (0.9)	3.6 (0.7)	4.9 (1.1)	3.5 (0.8)	9.8 (0.9)	7.1 (0.6)	9.6 (1.4)	6.9 (1.0)	4.6 (1.0)	3.3 (0.7)
23	1.4 (0.3)	1.1 (0.1)	7.4 (1.0)	5.3 (0.7)	7.0 (0.8)	5.0 (0.6)	10.5 (0.7)	7.6 (0.5)	9.7 (0.6)	6.9 (0.5)	6.9 (1.7)	4.9 (1.2)
24	1.4 (0.2)	0.8 (0.3)	7.6 (2.9)	5.5 (2.1)	7.8 (2.5)	5.6 (1.8)	12.0 (1.8)	8.6 (1.3)	10.0 (1.8)	7.1 (1.3)	8.6 (4.1)	6.2 (2.9)
25	1.2 (0.2)	0.7 (0.1)	5.7 (2.0)	4.1 (1.4)	6.8 (2.6)	4.9 (1.9)	11.4 (2.5)	8.2 (1.8)	11.0 (3.0)	7.9 (2.2)	9.6 (3.1)	6.9 (2.2)
26	1.0 (0.1)	0.6 (0.1)	5.9 (1.5)	4.3 (1.0)	5.7 (1.3)	4.1 (1.0)	9.9 (1.6)	7.1 (1.1)	8.9 (1.7)	6.4 (1.2)	10.8 (2.7)	7.7 (1.9)
27	1.1 (0.2)	0.5 (0.0)	7.0 (1.4)	5.1 (1.0)	5.7 (1.2)	4.1 (0.9)	9.7 (1.7)	7.0 (1.2)	9.3 (1.6)	6.7 (1.1)	2.9 (1.1)	2.1 (0.8)
28	1.3 (0.2)	0.9 (0.4)	8.0 (1.3)	5.8 (1.0)	6.3 (1.0)	4.5 (0.7)	14.8 (2.9)	10.6 (2.1)	10.2 (1.1)	7.3 (0.8)	6.9 (4.6)	5.0 (3.3)
29	1.0 (0.2)	0.4 (0.2)	7.6 (1.9)	5.4 (1.4)	7.0 (2.0)	5.0 (1.4)	15.5 (2.1)	11.1 (1.5)	13.8 (2.2)	9.9 (1.6)	9.2 (1.5)	6.6 (1.1)
30	0.7 (0.2)	0.5 (0.4)	9.2 (1.1)	6.6 (0.8)	8.7 (0.9)	6.3 (0.6)	13.6 (1.8)	9.7 (1.3)	11.9 (1.1)	8.5 (0.8)	8.3 (2.3)	5.9 (1.7)
31	1.7 (0.5)	0.6 (0.2)	10.9 (2.9)	7.8 (2.1)	9.5 (2.8)	6.8 (2.0)	15.7 (3.1)	11.3 (2.2)	14.2 (4.8)	10.2 (3.5)	12.8 (8.0)	9.1 (5.7)
Avg	1.08	0.76	5.33	3.83	5.33	3.83	9.24	6.64	9.01	6.48	5.9	4.24
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.36	0.32	1.83	1.31	1.54	1.1	2.81	2.01	2.25	1.61	2.41	1.73
Min	0.4	0.2	3.0	2.1	2.9	2.1	5.1	3.7	4.6	3.3	2.4	1.7
Max	2.0	1.7	10.9	7.8	9.5	6.8	15.7	11.3	14.2	10.2	12.8	9.1

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for September, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	1.2 (0.4)	0.4 (0.1)	8.6 (2.7)	6.1 (1.9)	7.4 (2.3)	5.3 (1.6)	12.3 (2.5)	8.8 (1.8)	9.7 (1.2)	6.9 (0.9)	8.6 (5.0)	6.1 (3.6)
2	1.0 (0.2)	0.3 (0.1)	6.9 (2.0)	4.9 (1.4)	6.4 (1.9)	4.6 (1.4)	10.7 (2.2)	7.7 (1.6)	6.8 (1.2)	4.9 (0.9)	6.9 (4.1)	4.9 (3.0)
3	2.2 (1.2)	0.9 (0.6)	7.0 (2.1)	5.0 (1.5)	6.2 (1.7)	4.4 (1.2)	10.3 (2.1)	7.4 (1.5)	6.4 (0.9)	4.6 (0.7)	11.0 (7.5)	7.9 (5.4)
4	1.1 (0.5)	0.6 (0.2)	7.1 (2.5)	5.1 (1.8)	5.5 (1.7)	3.9 (1.3)	11.0 (1.5)	7.9 (1.1)	5.4 (1.0)	3.9 (0.7)	14.7 (10.4)	10.5 (7.4)
5	1.0 (0.2)	0.6 (0.1)	6.5 (2.2)	4.7 (1.6)	5.4 (1.6)	3.9 (1.2)	9.9 (1.6)	7.1 (1.1)	5.8 (0.5)	4.2 (0.4)	6.5 (4.4)	4.6 (3.2)
6	0.8 (0.1)	0.6 (0.1)	8.3 (1.2)	5.9 (0.9)	7.1 (1.2)	5.1 (0.9)	10.2 (0.9)	7.3 (0.6)	7.4 (0.9)	5.3 (0.7)	5.5 (2.6)	3.9 (1.8)
7	1.8 (0.5)	0.7 (0.2)	10.3 (2.6)	7.4 (1.9)	8.8 (2.5)	6.3 (1.8)	15.4 (2.2)	11.1 (1.6)	9.9 (1.2)	7.1 (0.8)	6.7 (3.4)	4.8 (2.4)
8	2.8 (0.5)	1.5 (0.4)	11.7 (1.2)	8.4 (0.8)	7.6 (2.0)	5.5 (1.4)	17.4 (1.7)	12.5 (1.2)	12.1 (2.1)	8.7 (1.5)	10.8 (2.7)	7.8 (1.9)
9	2.2 (0.5)	1.1 (0.1)	9.8 (4.7)	7.0 (3.4)	6.9 (1.9)	4.9 (1.3)	13.2 (5.1)	9.5 (3.6)	12.7 (2.4)	9.1 (1.7)	7.9 (3.4)	5.7 (2.4)
10	1.3 (0.2)	0.7 (0.1)	7.6 (2.1)	5.5 (1.5)	6.5 (1.8)	4.7 (1.3)	9.2 (1.8)	6.6 (1.3)	12.3 (2.1)	8.8 (1.5)	4.3 (2.8)	3.1 (2.0)
11	1.3 (0.6)	0.6 (0.1)	7.1 (1.9)	5.1 (1.4)	6.1 (1.9)	4.4 (1.3)	10.7 (2.1)	7.7 (1.5)	11.3 (1.4)	8.1 (1.0)	7.4 (6.1)	5.3 (4.4)
12	2.0 (1.0)	0.9 (0.3)	7.5 (2.0)	5.4 (1.4)	6.3 (1.5)	4.5 (1.1)	11.0 (2.1)	7.9 (1.5)	11.2 (1.9)	8.0 (1.4)	13.8 (9.9)	9.9 (7.1)
13	1.7 (0.9)	1.1 (0.4)	9.3 (1.6)	6.7 (1.2)	8.1 (1.4)	5.8 (1.0)	11.0 (1.2)	7.9 (0.9)	10.0 (1.4)	7.2 (1.0)	12.6 (6.1)	9.0 (4.4)
14	2.7 (1.2)	3.1 (1.6)	10.1 (3.8)	7.3 (2.7)	8.2 (3.2)	5.9 (2.3)	15.7 (2.4)	11.3 (1.7)	12.4 (1.1)	8.9 (0.8)	18.9 (10.3)	13.5 (7.4)
15	2.5 (0.5)	1.9 (0.6)	7.7 (2.8)	5.6 (2.0)	6.3 (2.2)	4.5 (1.6)	13.8 (4.4)	9.9 (3.2)	11.0 (2.2)	7.9 (1.6)	14.9 (6.5)	10.7 (4.7)
16	0.7 (0.3)	0.3 (0.3)	6.6 (1.7)	4.7 (1.2)	5.9 (1.4)	4.2 (1.0)	9.2 (1.4)	6.6 (1.0)	7.7 (1.2)	5.5 (0.9)	2.7 (1.9)	1.9 (1.4)
17	1.1 (0.6)	0.4 (0.4)	7.1 (2.0)	5.1 (1.4)	6.3 (1.7)	4.5 (1.2)	9.8 (1.2)	7.0 (0.8)	7.3 (1.5)	5.3 (1.1)	5.8 (3.4)	4.2 (2.4)
18	1.0 (0.6)	0.6 (0.2)										
19	0.5 (0.3)	0.2 (0.1)	6.4 (1.7)	4.6 (1.2)	5.9 (1.5)	4.2 (1.1)	10.1 (1.3)	7.3 (1.0)	6.4 (1.0)	4.6 (0.7)	1.9 (1.6)	1.4 (1.2)
20	0.7 (0.5)	0.4 (0.4)	9.3 (1.2)	6.6 (0.9)	7.9 (0.8)	5.7 (0.6)	10.9 (1.5)	7.8 (1.1)	6.5 (1.1)	4.7 (0.8)	1.7 (0.9)	1.2 (0.7)
21	2.2 (0.4)	1.9 (0.6)	10.7 (3.5)	7.7 (2.5)	8.2 (2.5)	5.9 (1.8)	17.9 (2.6)	12.9 (1.9)	12.6 (2.4)	9.1 (1.8)	12.6 (3.8)	9.1 (2.8)
22	2.3 (0.3)	2.0 (0.7)	9.0 (3.2)	6.5 (2.3)	7.1 (2.4)	5.1 (1.7)	17.7 (4.9)	12.8 (3.6)	15.5 (2.4)	11.2 (1.7)	14.2 (3.9)	10.2 (2.8)
23	1.8 (0.3)	1.7 (0.4)	8.0 (2.2)	5.8 (1.6)	6.2 (1.3)	4.5 (0.9)	15.4 (3.5)	11.1 (2.5)	14.6 (2.6)	10.5 (1.9)		
24	2.8 (0.7)	1.3 (0.3)	9.0 (1.4)	6.5 (1.0)	7.3 (1.3)	5.2 (0.9)	15.1 (2.2)	10.9 (1.6)	13.5 (1.1)	9.7 (0.8)	4.8 (3.2)	3.4 (2.3)
25	0.7 (0.4)	0.2 (0.2)	8.5 (1.8)	6.1 (1.3)	7.5 (1.7)	5.3 (1.2)	14.6 (2.6)	10.5 (1.9)	10.8 (2.1)	7.8 (1.5)	1.9 (0.7)	1.4 (0.5)
26	0.4 (0.1)	0.1 (0.0)	8.3 (2.0)	6.0 (1.4)	6.7 (1.8)	4.8 (1.3)	17.9 (3.4)	12.9 (2.5)	13.8 (2.4)	10.0 (1.7)	7.8 (1.3)	5.6 (0.9)
27	0.7 (0.6)	0.4 (0.5)	11.3 (1.4)	8.1 (1.0)	9.2 (1.3)	6.6 (0.9)	16.2 (1.1)	11.7 (0.8)	12.4 (1.2)	8.9 (0.9)	6.6 (1.9)	4.7 (1.4)
28	-0.1 (0.2)	-0.2 (0.3)	10.7 (3.7)	7.7 (2.6)	9.6 (2.9)	6.9 (2.1)	15.6 (2.7)	11.2 (1.9)	13.6 (1.9)	9.8 (1.3)	3.7 (0.6)	2.6 (0.4)
29	0.1 (0.1)	-0.1 (0.1)	8.9 (2.4)	6.4 (1.7)	7.2 (1.7)	5.1 (1.2)	13.9 (1.7)	9.9 (1.2)	14.1 (2.3)	10.1 (1.7)	3.8 (0.9)	2.7 (0.7)
30	0.4 (0.2)	0.2 (0.1)	8.7 (2.1)	6.2 (1.5)	7.0 (1.2)	5.0 (0.9)	13.1 (1.0)	9.4 (0.7)	11.0 (1.9)	7.9 (1.4)	3.0 (1.1)	2.1 (0.8)
Avg	1.36	0.81	8.56	6.14	7.06	5.07	13.1	9.38	10.5	7.54	7.89	5.65
n	30	30	29	29	29	29	29	29	29	29	28	28
SD	0.81	0.73	1.47	1.06	1.04	0.75	2.84	2.05	2.92	2.11	4.59	3.29
Min	-0.1	-0.2	6.4	4.6	5.4	3.9	9.2	6.6	5.4	3.9	1.7	1.2
Max	2.8	3.1	11.7	8.4	9.6	6.9	17.9	12.9	15.5	11.2	18.9	13.5

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for October, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.6 (0.5)	0.1 (0.2)	9.5 (2.5)	6.8 (1.8)	7.2 (1.9)	5.1 (1.4)	13.2 (1.7)	9.5 (1.2)	7.5 (2.1)	5.3 (1.5)	2.9 (1.3)	2.1 (0.9)
2	0.5 (0.6)	0.1 (0.4)	9.2 (2.6)	6.6 (1.9)	7.9 (1.8)	5.6 (1.3)	14.0 (2.6)	10.1 (1.8)	13.0 (4.2)	9.3 (3.0)	3.4 (1.3)	2.4 (0.9)
3	0.3 (0.4)	0.1 (0.5)	9.9 (2.2)	7.1 (1.6)	7.9 (1.4)	5.6 (1.0)	14.0 (2.2)	10.0 (1.6)	11.6 (2.1)	8.3 (1.5)	4.6 (0.7)	3.3 (0.5)
4	0.0 (0.1)	-0.3 (0.0)	12.7 (1.7)	9.1 (1.2)	10.3 (1.0)	7.3 (0.7)	12.8 (1.0)	9.1 (0.7)	10.0 (0.7)	7.2 (0.5)	6.2 (2.2)	4.4 (1.6)
5	0.6 (0.6)	0.1 (0.2)	13.8 (4.8)	9.9 (3.4)	11.2 (3.2)	8.0 (2.3)	19.7 (4.3)	14.1 (3.1)	14.1 (3.2)	10.1 (2.3)	6.9 (1.4)	4.9 (1.0)
6	0.5 (0.4)	0.2 (0.3)	10.9 (2.6)	7.8 (1.9)	9.4 (2.0)	6.8 (1.4)	18.2 (3.3)	13.1 (2.4)	18.7 (2.6)	13.4 (1.9)	3.7 (1.7)	2.7 (1.2)
7	0.0 (0.2)	-0.1 (0.3)	9.5 (2.1)	6.8 (1.5)	7.8 (1.7)	5.6 (1.2)	15.7 (1.9)	11.3 (1.4)	16.6 (1.9)	11.9 (1.3)	5.7 (1.7)	4.0 (1.2)
8	0.8 (0.3)	1.3 (1.0)	10.6 (2.1)	7.6 (1.5)	8.3 (1.4)	6.0 (1.0)	16.7 (2.5)	11.9 (1.8)	15.6 (2.6)	11.2 (1.9)	6.1 (1.8)	4.3 (1.3)
9	1.1 (0.3)	0.6 (0.2)	11.4 (2.6)	8.2 (1.9)	9.6 (1.3)	6.9 (0.9)	18.6 (3.5)	13.3 (2.5)	18.0 (1.9)	12.9 (1.4)	6.9 (1.5)	4.9 (1.1)
10	0.3 (0.2)	-0.1 (0.1)	10.7 (2.8)	7.6 (2.0)	9.7 (2.1)	6.9 (1.5)	17.3 (4.9)	12.4 (3.5)	16.1 (2.6)	11.5 (1.8)	7.7 (1.7)	5.5 (1.2)
11	0.1 (0.2)	-0.2 (0.1)	13.0 (1.6)	9.3 (1.2)	11.6 (1.0)	8.3 (0.7)	11.5 (0.8)	8.2 (0.6)	13.5 (0.7)	9.6 (0.5)	8.7 (1.9)	6.2 (1.4)
12	0.5 (0.2)	0.1 (0.1)	15.6 (3.0)	11.2 (2.1)	13.2 (2.4)	9.4 (1.7)	25.1 (7.5)	18.0 (5.4)	21.8 (5.8)	15.6 (4.1)	5.2 (3.0)	3.7 (2.2)
13	0.5 (0.1)	0.2 (0.2)	13.6 (3.4)	9.7 (2.5)	10.4 (2.4)	7.5 (1.7)	27.6 (5.3)	19.8 (3.8)	23.0 (4.1)	16.4 (2.9)	7.5 (2.4)	5.4 (1.7)
14	0.2 (0.1)	-0.1 (0.0)	15.5 (1.8)	11.1 (1.3)	9.7 (1.7)	7.0 (1.2)	23.5 (2.7)	16.8 (2.0)	16.8 (2.5)	12.0 (1.8)	2.0 (0.8)	1.4 (0.5)
15	0.2 (0.1)	-0.2 (0.1)	14.6 (3.0)	10.5 (2.2)	9.6 (1.9)	6.9 (1.3)	16.8 (4.8)	12.0 (3.4)	19.1 (2.9)	13.7 (2.1)	4.7 (2.8)	3.4 (2.0)
16	0.5 (0.1)	0.0 (0.2)	13.9 (3.1)	9.9 (2.2)	9.1 (2.4)	6.5 (1.7)	15.6 (3.7)	11.2 (2.6)	15.0 (3.8)	10.7 (2.7)	7.5 (2.3)	5.4 (1.6)
17	0.7 (0.3)	0.6 (0.2)	14.7 (3.4)	10.5 (2.4)	10.2 (1.5)	7.3 (1.1)	23.9 (7.0)	17.1 (5.0)	26.1 (9.6)	18.7 (6.9)	13.9 (8.1)	9.9 (5.8)
18	1.4 (0.2)	1.5 (1.1)	19.6 (2.3)	14.0 (1.7)	13.5 (1.5)	9.7 (1.1)	29.2 (3.9)	20.9 (2.8)	29.8 (3.9)	21.4 (2.8)	18.5 (4.8)	13.2 (3.4)
19	1.8 (0.2)	3.9 (1.2)	19.9 (6.3)	14.3 (4.5)	16.2 (3.5)	11.6 (2.5)	33.5 (4.0)	24.0 (2.9)	32.7 (3.3)	23.5 (2.3)	12.8 (5.7)	9.2 (4.1)
20	1.4 (0.3)	2.5 (1.0)	16.2 (4.5)	11.6 (3.2)	12.5 (4.3)	9.0 (3.1)	38.0 (6.1)	27.3 (4.4)	34.6 (9.2)	24.9 (6.6)	17.0 (2.7)	12.2 (1.9)
21	1.3 (0.3)	1.7 (0.8)	12.4 (3.1)	8.9 (2.2)	8.8 (2.6)	6.3 (1.9)	25.9 (7.3)	18.6 (5.2)	22.4 (7.6)	16.1 (5.5)	16.0 (3.7)	11.4 (2.6)
22	0.8 (0.2)	0.4 (0.4)	12.1 (2.5)	8.7 (1.8)	8.1 (2.6)	5.8 (1.8)	22.9 (4.5)	16.4 (3.2)	17.0 (2.5)	12.2 (1.8)	11.3 (7.0)	8.0 (5.0)
23	0.6 (0.5)	1.3 (1.6)	13.2 (3.5)	9.5 (2.5)	10.6 (1.6)	7.6 (1.2)	26.5 (3.6)	19.1 (2.6)	16.3 (1.7)	11.7 (1.3)	6.3 (3.6)	4.5 (2.6)
24	0.5 (0.6)	0.9 (1.2)	16.4 (3.1)	11.8 (2.2)	12.1 (2.2)	8.7 (1.5)	29.6 (3.2)	21.2 (2.3)	20.8 (3.1)	14.9 (2.3)	10.9 (2.6)	7.8 (1.9)
25	1.9 (0.4)	3.4 (0.6)	19.5 (1.9)	14.0 (1.3)	14.5 (1.1)	10.4 (0.8)	28.5 (2.5)	20.4 (1.8)	20.0 (1.5)	14.3 (1.1)	10.4 (2.7)	7.4 (1.9)
26	1.5 (0.5)	3.3 (1.7)										
27	1.1 (0.2)	1.6 (1.1)										
28	1.2 (0.2)	0.6 (0.2)	14.9 (3.1)	10.7 (2.2)	9.7 (3.5)	6.9 (2.5)	31.1 (3.7)	22.3 (2.7)	21.3 (4.5)	15.3 (3.2)	21.1 (6.7)	15.1 (4.8)
29	0.7 (0.2)	0.4 (0.2)	12.8 (3.2)	9.2 (2.3)	10.3 (1.9)	7.4 (1.4)	24.8 (3.8)	17.8 (2.7)	20.6 (4.1)	14.8 (2.9)	7.4 (4.5)	5.3 (3.2)
30	2.3 (1.1)	3.9 (2.7)	11.1 (2.4)	8.0 (1.7)	9.5 (2.5)	6.8 (1.8)	25.1 (3.9)	18.0 (2.8)	21.0 (2.7)	15.1 (1.9)	8.3 (1.9)	6.0 (1.4)
31	0.0 (0.1)	-0.2 (0.1)	12.9 (2.5)	9.3 (1.8)	9.9 (2.0)	7.1 (1.4)	24.0 (3.6)	17.2 (2.6)	20.7 (2.7)	14.8 (2.0)	11.1 (2.4)	7.9 (1.7)
Avg	0.77	0.89	13.5	9.64	10.3	7.38	22.2	15.9	19.1	13.7	8.78	6.26
n	31	31	29	29	29	29	29	29	29	29	29	29
SD	0.59	1.24	2.91	2.08	2.09	1.5	6.73	4.84	6.07	4.37	4.75	3.39
Min	0.0	-0.3	9.2	6.6	7.2	5.1	11.5	8.2	7.5	5.3	2.0	1.4
Max	2.3	3.9	19.9	14.3	16.2	11.6	38.0	27.3	34.6	24.9	21.1	15.1

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for November, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	0.3 (0.2)	0.0 (0.2)	18.0 (1.6)	12.8 (1.2)	12.3 (1.0)	8.8 (0.7)	23.8 (1.3)	17.0 (1.0)	20.2 (0.4)	14.5 (0.3)	14.6 (5.5)	10.4 (3.9)
2	1.2 (0.7)	1.2 (1.1)	18.0 (6.4)	12.9 (4.6)	13.2 (4.0)	9.5 (2.9)	30.0 (5.9)	21.5 (4.2)	26.5 (4.7)	19.0 (3.4)	11.6 (5.0)	8.2 (3.6)
3	0.6 (0.6)	0.1 (0.4)	16.2 (2.5)	11.6 (1.8)	10.6 (2.2)	7.6 (1.6)	30.4 (3.5)	21.8 (2.5)	23.1 (4.0)	16.5 (2.8)	16.4 (10.9)	11.6 (7.7)
4	1.2 (0.4)	0.7 (0.4)	18.2 (3.9)	13.0 (2.8)	11.1 (2.4)	7.9 (1.7)	30.3 (4.1)	21.7 (3.0)	21.7 (4.1)	15.5 (3.0)	15.2 (5.7)	10.8 (4.0)
5	0.5 (0.3)	0.0 (0.2)	17.0 (3.8)	12.2 (2.7)	9.8 (1.9)	7.0 (1.3)	29.6 (4.5)	21.2 (3.2)	21.1 (3.2)	15.1 (2.3)	19.2 (8.0)	13.7 (5.7)
6	1.3 (0.1)	1.6 (0.7)	18.8 (2.9)	13.4 (2.1)	11.7 (1.0)	8.4 (0.7)	32.3 (5.0)	23.1 (3.6)	26.5 (5.1)	19.0 (3.7)	12.7 (8.2)	9.0 (5.9)
7	1.5 (1.0)	0.8 (0.6)	14.1 (5.9)	10.1 (4.2)	9.5 (3.9)	6.8 (2.8)	23.5 (6.3)	16.8 (4.5)	21.8 (7.6)	15.6 (5.5)	16.8 (8.1)	12.0 (5.8)
8	2.9 (1.0)	2.6 (1.0)	13.4 (1.3)	9.6 (0.9)	9.6 (1.1)	6.9 (0.8)	17.4 (2.6)	12.5 (1.9)	15.9 (2.0)	11.4 (1.4)	22.5 (6.6)	16.1 (4.7)
9	1.6 (0.7)	0.8 (0.6)	14.7 (3.5)	10.5 (2.5)	10.2 (3.2)	7.3 (2.3)	23.3 (5.2)	16.7 (3.7)	20.5 (2.4)	14.7 (1.7)	23.1 (6.1)	16.5 (4.4)
10	0.9 (0.6)	0.3 (0.5)	12.2 (2.3)	8.8 (1.7)	9.8 (1.6)	7.0 (1.2)	25.4 (3.6)	18.2 (2.6)	24.1 (2.6)	17.3 (1.8)	13.4 (7.9)	9.6 (5.7)
11	0.2 (0.2)	0.2 (0.2)	12.5 (2.8)	9.0 (2.0)	10.4 (2.4)	7.4 (1.7)	20.4 (4.4)	14.6 (3.2)	26.0 (4.0)	18.7 (2.9)	4.2 (3.0)	3.0 (2.1)
12	0.3 (0.2)	0.4 (0.2)	13.4 (3.7)	9.6 (2.6)	11.1 (2.6)	8.0 (1.9)	19.7 (2.1)	14.1 (1.5)	25.8 (3.6)	18.5 (2.6)	3.0 (1.8)	2.1 (1.3)
13	1.0 (0.5)	1.3 (0.6)	12.6 (3.0)	9.0 (2.2)	10.8 (2.6)	7.8 (1.8)	21.7 (2.1)	15.6 (1.5)	24.2 (6.5)	17.3 (4.7)	5.2 (1.0)	3.7 (0.7)
14	1.2 (0.5)	1.2 (0.4)	11.9 (3.6)	8.6 (2.6)	9.3 (3.0)	6.7 (2.2)	25.2 (3.8)	18.1 (2.7)	18.8 (4.9)	13.5 (3.5)	6.8 (1.5)	4.8 (1.1)
15	0.8 (0.1)	0.6 (0.2)	13.0 (1.9)	9.3 (1.4)	9.8 (1.5)	7.0 (1.0)	18.4 (3.2)	13.2 (2.3)	14.5 (0.6)	10.4 (0.5)	7.0 (2.2)	5.0 (1.6)
16	0.2 (0.2)	0.0 (0.1)	16.8 (3.9)	12.1 (2.8)	13.3 (2.6)	9.5 (1.8)	18.5 (3.2)	13.3 (2.3)	22.7 (3.8)	16.3 (2.7)	2.2 (0.7)	1.6 (0.5)
17	0.1 (0.1)	-0.1 (0.2)	14.6 (3.1)	10.5 (2.2)	12.5 (2.4)	9.0 (1.7)	24.2 (4.7)	17.3 (3.3)	27.8 (2.8)	19.9 (2.0)	2.5 (0.3)	1.8 (0.2)
18	0.6 (0.4)	1.5 (1.1)	14.0 (2.3)	10.0 (1.7)	11.5 (1.7)	8.2 (1.2)	23.9 (3.2)	17.2 (2.3)	27.0 (1.7)	19.4 (1.2)	7.7 (4.7)	5.5 (3.4)
19	1.9 (1.0)	2.7 (1.9)	16.4 (2.7)	11.8 (1.9)	12.6 (1.9)	9.0 (1.3)	28.0 (6.6)	20.1 (4.8)	30.0 (2.1)	21.5 (1.5)	11.7 (3.1)	8.4 (2.2)
20	0.5 (0.2)	0.3 (0.1)	16.1 (4.4)	11.6 (3.2)	12.4 (2.4)	8.9 (1.7)	32.1 (3.5)	23.0 (2.5)	30.1 (2.9)	21.6 (2.1)	16.5 (6.2)	11.8 (4.4)
21	0.9 (0.1)	1.0 (0.2)	14.6 (3.6)	10.5 (2.6)	12.1 (2.0)	8.7 (1.4)	28.9 (2.9)	20.7 (2.1)	30.4 (3.7)	21.8 (2.7)	15.9 (7.9)	11.3 (5.6)
22	0.8 (0.1)	1.0 (0.3)	17.8 (2.1)	12.8 (1.5)	14.1 (1.4)	10.1 (1.0)	27.0 (1.4)	19.3 (1.0)	27.0 (3.3)	19.4 (2.4)	5.8 (2.1)	4.1 (1.5)
23	0.5 (0.1)	0.9 (0.1)	20.4 (5.0)	14.7 (3.6)	16.1 (2.4)	11.5 (1.7)	32.5 (3.1)	23.3 (2.3)	33.7 (4.9)	24.2 (3.5)	3.8 (0.9)	2.7 (0.7)
24	0.7 (0.2)	1.6 (0.2)	19.3 (3.9)	13.8 (2.8)	15.3 (4.2)	11.0 (3.0)	42.0 (5.1)	30.1 (3.7)	39.0 (6.4)	28.0 (4.6)	3.5 (0.4)	2.5 (0.3)
25	0.6 (0.3)	0.4 (0.4)	16.7 (3.4)	12.0 (2.4)	10.8 (2.3)	7.8 (1.7)	36.1 (3.4)	25.9 (2.4)	25.8 (3.6)	18.5 (2.6)	5.3 (0.9)	3.7 (0.6)
26	0.3 (0.1)	0.1 (0.1)	18.1 (3.0)	13.0 (2.1)	11.6 (1.9)	8.3 (1.3)	35.4 (2.0)	25.4 (1.5)	20.3 (1.6)	14.6 (1.1)	4.4 (0.8)	3.2 (0.5)
27	0.5 (0.5)	0.2 (0.4)	18.8 (3.4)	13.5 (2.4)	11.9 (1.9)	8.5 (1.4)	33.3 (3.7)	23.9 (2.7)	19.5 (1.4)	14.0 (1.0)	5.8 (2.1)	4.1 (1.5)
28	2.0 (0.4)	1.7 (0.9)	19.4 (4.4)	13.9 (3.2)	12.1 (2.7)	8.7 (1.9)	34.5 (2.3)	24.7 (1.6)	20.3 (0.6)	14.6 (0.4)	6.9 (3.3)	4.9 (2.3)
29	1.3 (0.6)	1.2 (1.0)	20.5 (1.5)	14.7 (1.1)	10.7 (1.5)	7.7 (1.1)	32.7 (1.7)	23.5 (1.2)	16.5 (2.8)	11.9 (2.0)	10.7 (1.9)	7.6 (1.4)
30	0.7 (0.5)	0.3 (0.4)	23.0 (5.1)	16.5 (3.6)	12.4 (2.0)	8.9 (1.5)	35.1 (2.7)	25.1 (1.9)	18.9 (1.0)	13.5 (0.7)	7.5 (1.4)	5.3 (1.0)
Avg	0.9	0.82	16.4	11.7	11.6	8.33	27.9	20	24	17.2	10.1	7.17
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.6	0.73	2.81	2.02	1.63	1.17	6.05	4.34	5.32	3.82	6.01	4.29
Min	0.1	-0.1	11.9	8.6	9.3	6.7	17.4	12.5	14.5	10.4	2.2	1.6
Max	2.9	2.7	23.0	16.5	16.1	11.5	42.0	30.1	39.0	28.0	23.1	16.5

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Table F12. Daily means (SD) of NH3 concentrations at site IN2B for December, 2009.

Day	Inlets		House 8		House 9		H8 drying tunnel		H9 drying tunnel		Manure shed	
	H8, ppm	H9, ppm	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}	ppm	mg·dsm^{-3}
1	1.1 (1.0)	1.3 (1.7)	20.0 (4.3)	14.3 (3.1)	12.2 (2.7)	8.7 (1.9)	39.6 (4.2)	28.4 (3.0)	20.8 (2.6)	14.9 (1.9)	8.2 (1.3)	5.9 (0.9)
2	1.3 (0.9)	1.6 (1.8)	17.0 (3.9)	12.2 (2.8)	9.7 (2.1)	7.0 (1.5)	36.9 (2.2)	26.5 (1.5)	15.4 (2.6)	11.0 (1.8)	8.4 (4.0)	6.0 (2.9)
3	0.3 (0.2)	-0.1 (0.2)	15.7 (2.0)	11.3 (1.4)	7.5 (1.3)	5.4 (0.9)	33.7 (4.4)	24.2 (3.2)	10.5 (1.3)	7.5 (0.9)	6.7 (1.6)	4.8 (1.1)
4	-0.3 (0.1)	-0.4 (0.1)	16.3 (4.7)	11.7 (3.4)	7.9 (2.1)	5.6 (1.5)	26.2 (7.1)	18.7 (5.1)	8.2 (2.0)	5.9 (1.4)	5.3 (1.5)	3.8 (1.1)
5	-0.2 (0.2)	-0.2 (0.2)	13.5 (2.8)	9.7 (2.0)	7.1 (0.6)	5.1 (0.4)	19.7 (1.7)	14.1 (1.2)	6.4 (0.3)	4.6 (0.2)	5.4 (1.5)	3.8 (1.1)
6	0.9 (0.3)	0.3 (0.1)	17.8 (1.6)	12.7 (1.2)	8.4 (0.7)	6.1 (0.5)	23.2 (1.1)	16.6 (0.8)	7.2 (0.3)	5.2 (0.2)	7.7 (2.6)	5.5 (1.8)
7	0.5 (0.2)	0.2 (0.2)	22.3 (3.6)	15.9 (2.6)	7.5 (1.3)	5.3 (1.0)	31.1 (2.9)	22.2 (2.1)	6.5 (1.6)	4.6 (1.1)	7.2 (2.5)	5.1 (1.8)
8	0.7 (0.2)	0.1 (0.1)	24.0 (3.9)	17.2 (2.8)	7.7 (0.9)	5.5 (0.7)	35.0 (3.7)	25.1 (2.7)	4.9 (0.2)	3.5 (0.2)	4.9 (4.1)	3.5 (2.9)
9	0.1 (0.5)	-0.2 (0.2)	20.0 (5.6)	14.3 (4.0)	8.1 (1.1)	5.8 (0.8)	30.5 (4.8)	21.8 (3.5)			6.2 (2.3)	4.4 (1.7)
10	-0.4 (0.1)	-0.6 (0.1)	17.4 (2.8)	12.4 (2.0)			29.6 (4.3)	21.2 (3.1)	6.1 (0.9)	4.4 (0.6)	4.9 (1.4)	3.5 (1.0)
11	0.2 (0.4)	-0.3 (0.3)	20.5 (3.2)	14.7 (2.3)	7.4 (0.9)	5.3 (0.6)	36.3 (3.9)	26.0 (2.8)	4.9 (0.4)	3.5 (0.3)	8.1 (3.3)	5.7 (2.3)
12	1.8 (0.3)	1.3 (0.4)	22.3 (4.0)	15.9 (2.9)	8.2 (1.1)	5.8 (0.8)	32.7 (2.3)	23.4 (1.7)	6.0 (0.3)	4.3 (0.2)	8.0 (2.8)	5.7 (2.0)
13	1.4 (0.4)	0.6 (0.3)	21.8 (2.7)	15.6 (1.9)	7.8 (0.9)	5.6 (0.6)	30.0 (1.8)	21.5 (1.3)	6.6 (0.4)	4.7 (0.3)	19.7 (8.1)	14.0 (5.7)
14	1.2 (0.5)	0.5 (0.4)	23.3 (6.0)	16.7 (4.3)	6.5 (2.8)	4.7 (2.0)	39.9 (5.4)	28.6 (3.9)	5.7 (2.2)	4.1 (1.6)	13.4 (2.7)	9.5 (1.9)
15	0.2 (0.2)	-0.2 (0.1)	19.0 (4.5)	13.6 (3.2)	4.7 (0.3)	3.3 (0.2)	47.1 (5.2)	33.8 (3.7)	3.5 (0.2)	2.5 (0.2)	7.6 (2.7)	5.4 (1.9)
16	0.4 (0.5)	-0.2 (0.2)	18.1 (2.2)	13.0 (1.6)	6.5 (0.7)	4.7 (0.5)	43.6 (2.3)	31.2 (1.7)	5.1 (0.5)	3.6 (0.4)	13.0 (9.1)	9.2 (6.4)
17	1.2 (0.1)	0.3 (0.1)	19.1 (1.9)	13.7 (1.4)	7.8 (0.7)	5.6 (0.5)	39.0 (6.1)	27.9 (4.4)	6.2 (0.7)	4.4 (0.5)	8.8 (3.3)	6.3 (2.3)
18	0.8 (0.4)	0.6 (0.1)	15.8 (2.5)	11.3 (1.8)	10.3 (1.6)	7.4 (1.1)	29.7 (3.0)	21.2 (2.2)	9.8 (2.0)	7.0 (1.4)	8.0 (5.7)	5.7 (4.1)
19	1.0 (0.1)	0.8 (0.2)	17.4 (4.0)	12.4 (2.9)	17.4 (1.2)	12.4 (0.9)	32.3 (2.8)	23.1 (2.0)	18.4 (1.7)	13.2 (1.2)	19.9 (4.5)	14.1 (3.2)
20	1.1 (0.2)	1.4 (0.2)	22.9 (2.6)	16.4 (1.9)	23.6 (1.9)	16.9 (1.4)	32.1 (3.4)	22.9 (2.5)	25.4 (1.8)	18.2 (1.3)	19.5 (4.6)	13.9 (3.3)
21	0.6 (0.5)	0.9 (0.6)	26.9 (3.0)	19.2 (2.1)	18.9 (9.4)	13.5 (6.8)	36.5 (4.8)	26.1 (3.4)	20.0 (10.3)	14.3 (7.4)	13.5 (3.7)	9.6 (2.6)
22	1.1 (0.8)	0.7 (0.6)	22.9 (7.1)	16.4 (5.1)	14.2 (1.3)	10.2 (0.9)	42.9 (5.8)	30.8 (4.2)	14.0 (1.0)	10.1 (0.7)	6.6 (5.7)	4.7 (4.1)
23	0.8 (0.3)	0.0 (0.0)	21.0 (1.6)	15.0 (1.2)	19.5 (1.8)	14.0 (1.3)	38.7 (2.1)	27.7 (1.5)	20.8 (2.1)	14.9 (1.5)	3.4 (0.6)	2.4 (0.4)
24	1.2 (0.5)	0.0 (0.1)	21.9 (4.5)	15.7 (3.3)	17.4 (8.1)	12.5 (5.8)	39.7 (3.9)	28.4 (2.8)	18.8 (8.9)	13.5 (6.4)	2.5 (1.6)	1.8 (1.1)
25	0.9 (0.2)	0.3 (0.2)	21.9 (3.5)	15.7 (2.5)	13.7 (2.1)	9.8 (1.5)	41.4 (1.3)	29.7 (0.9)	14.1 (1.4)	10.1 (1.0)	5.8 (4.0)	4.1 (2.8)
26	1.9 (0.3)	2.2 (0.5)	25.0 (6.2)	17.9 (4.4)	22.8 (1.9)	16.3 (1.4)	46.4 (2.2)	33.3 (1.5)	23.3 (2.1)	16.8 (1.5)	10.8 (3.1)	7.7 (2.2)
27	1.0 (0.2)	1.6 (0.3)	27.6 (2.5)	19.8 (1.8)	31.0 (2.5)	22.2 (1.8)	44.4 (3.2)	31.9 (2.3)	34.2 (2.3)	24.6 (1.7)	14.3 (3.4)	10.1 (2.4)
28	0.5 (0.1)	0.4 (0.2)	30.8 (6.0)	22.1 (4.3)	25.1 (13.6)	18.0 (9.8)	50.0 (3.0)	35.8 (2.2)	28.1 (14.8)	20.2 (10.6)	7.9 (3.2)	5.6 (2.3)
29	1.5 (0.4)	1.2 (0.2)	24.4 (4.2)	17.5 (3.0)	15.7 (1.7)	11.2 (1.2)	52.0 (7.4)	37.3 (5.3)	17.5 (2.1)	12.5 (1.5)	14.4 (2.8)	10.2 (2.0)
30	3.0 (0.5)	3.0 (1.3)	24.0 (3.4)	17.2 (2.4)	25.6 (2.3)	18.4 (1.6)	49.0 (2.8)	35.1 (2.0)	28.7 (2.9)	20.6 (2.1)	10.3 (2.5)	7.3 (1.8)
31	1.3 (1.2)	1.6 (1.8)	21.4 (4.5)	15.4 (3.2)	20.6 (11.0)	14.8 (7.9)	42.2 (6.3)	30.2 (4.6)	23.7 (13.2)	17.0 (9.5)	9.7 (5.3)	6.9 (3.8)
Avg	0.87	0.6	21	15.1	13.3	9.57	37.1	26.6	14	10.1	9.36	6.65
n	31	31	31	31	30	30	31	31	30	30	31	31
SD	0.68	0.82	3.77	2.71	7.06	5.07	7.75	5.57	8.58	6.16	4.52	3.22
Min	-0.4	-0.6	13.5	9.7	4.7	3.3	19.7	14.1	3.5	2.5	2.5	1.8
Max	3.0	3.0	30.8	22.1	31.0	22.2	52.0	37.3	34.2	24.6	19.9	14.1

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Table F13. Ammonia emissions.

Table F13. Daily means (SD) of ammonia emissions at site IN2B for January, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1												
2												
3	50.5 (22.4)	18.5 (8.2)	0.19 (0.09)	72.8 (32.1)	6.3 (1.1)	2.3 (0.4)	0.03 (0.00)	10.0 (1.7)				
4	73.6 (65.4)	26.9 (23.9)	0.28 (0.25)	106.0 (93.9)								
5	6.7 (11.2)	2.5 (4.1)	0.03 (0.04)	9.5 (16.0)	30.8 (6.7)	11.3 (2.5)	0.12 (0.03)	48.7 (10.6)				
6	36.5 (27.4)	13.4 (10.0)	0.14 (0.10)	51.8 (38.9)	69.5 (20.9)	25.4 (7.7)	0.27 (0.08)	109.0 (32.6)				
7	117.0 (65.1)	42.9 (23.8)	0.45 (0.25)	166.0 (91.9)	66.2 (35.2)	24.2 (12.9)	0.26 (0.14)	103.0 (55.0)				
8	78.3 (19.4)	28.7 (7.1)	0.30 (0.07)	110.0 (27.1)	39.7 (14.3)	14.5 (5.2)	0.16 (0.06)	61.3 (22.0)				
9	75.3 (17.9)	27.5 (6.5)	0.29 (0.07)	105.0 (25.1)	20.7 (5.3)	7.6 (2.0)	0.08 (0.02)	31.7 (8.1)				
10	72.8 (9.7)	26.6 (3.5)	0.28 (0.04)	101.0 (13.4)	44.0 (21.9)	16.1 (8.0)	0.17 (0.09)	66.8 (33.2)				
11	75.3 (11.7)	27.5 (4.3)	0.29 (0.05)	104.0 (16.2)	71.2 (16.6)	26.1 (6.1)	0.28 (0.07)	107.0 (24.9)				
12	97.5 (11.5)	35.7 (4.2)	0.37 (0.04)	134.0 (15.8)	52.7 (34.3)	19.3 (12.5)	0.21 (0.13)	79.0 (51.4)				
13	130.0 (42.2)	47.4 (15.4)	0.49 (0.16)	178.0 (57.9)	24.2 (4.8)	8.8 (1.8)	0.09 (0.02)	36.1 (7.2)				
14	115.0 (47.4)	42.1 (17.3)	0.44 (0.18)	157.0 (64.8)	35.8 (8.0)	13.1 (2.9)	0.14 (0.03)	53.2 (11.9)				
15	70.6 (11.1)	25.8 (4.1)	0.27 (0.04)	96.1 (15.0)	48.9 (8.4)	17.9 (3.1)	0.19 (0.03)	72.5 (12.5)				
16	99.2 (19.0)	36.3 (7.0)	0.38 (0.07)	135.0 (25.8)	40.8 (16.1)	14.9 (5.9)	0.16 (0.06)	60.3 (23.8)				
17	106.0 (15.6)	38.9 (5.7)	0.41 (0.06)	144.0 (21.2)	40.0 (11.2)	14.6 (4.1)	0.16 (0.04)	58.9 (16.4)				
18	140.0 (60.1)	51.2 (22.0)	0.53 (0.23)	188.0 (80.9)	53.3 (22.4)	19.5 (8.2)	0.21 (0.09)	78.2 (32.8)				
19												
20	170.0 (21.3)	62.2 (7.8)	0.65 (0.08)	227.0 (28.4)	35.1 (8.3)	12.8 (3.1)	0.14 (0.03)	50.8 (12.0)				
21	255.0 (26.2)	93.2 (9.6)	0.97 (0.10)	340.0 (35.0)	48.5 (13.8)	17.7 (5.1)	0.19 (0.05)	69.6 (20.0)				
22	202.0 (84.4)	73.9 (30.9)	0.77 (0.32)	269.0 (113.0)	61.5 (14.1)	22.5 (5.1)	0.24 (0.06)	87.6 (20.0)				
23	112.0 (23.8)	41.0 (8.7)	0.43 (0.09)	149.0 (31.7)	74.5 (13.6)	27.2 (5.0)	0.29 (0.05)	105.0 (19.3)				
24	82.6 (9.8)	30.2 (3.6)	0.32 (0.04)	109.0 (13.0)	76.0 (9.4)	27.8 (3.4)	0.30 (0.04)	107.0 (13.3)				
25	54.0 (12.0)	19.7 (4.4)	0.21 (0.05)	71.3 (15.8)	104.0 (17.9)	38.0 (6.6)	0.41 (0.07)	145.0 (25.3)				
26	63.4 (10.8)	23.2 (4.0)	0.24 (0.04)	83.6 (14.3)	76.7 (29.1)	28.1 (10.7)	0.30 (0.11)	106.0 (40.5)				
27	82.1 (9.7)	30.0 (3.6)	0.31 (0.04)	108.0 (12.8)	82.1 (16.5)	30.0 (6.0)	0.32 (0.07)	113.0 (22.6)				
28	94.3 (22.5)	34.5 (8.2)	0.36 (0.09)	124.0 (29.6)	126.0 (16.7)	46.1 (6.1)	0.49 (0.07)	173.0 (23.0)				
29	94.5 (35.7)	34.6 (13.0)	0.36 (0.14)	124.0 (47.0)	159.0 (38.7)	58.3 (14.2)	0.62 (0.15)	217.0 (52.9)				
30	52.0 (29.3)	19.0 (10.7)	0.20 (0.11)	68.5 (38.6)	108.0 (17.0)	39.6 (6.2)	0.42 (0.07)	147.0 (22.9)				
31	106.0 (20.2)	38.9 (7.4)	0.41 (0.08)	140.0 (26.6)	138.0 (15.9)	50.5 (5.8)	0.54 (0.06)	186.0 (21.4)				
Avg	96.9	35.4	0.37	131.0	64.2	23.5	0.25	91.9				
n	28	28	28	28	27	27	27	27	0	0	0	0
SD	49.2	18.0	0.19	65.4	36.1	13.2	0.14	47.9				
Min	6.7	2.5	0.03	9.5	6.3	2.3	0.03	10.0				
Max	255.0	93.2	0.97	340.0	159.0	58.3	0.62	217.0				

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for February, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	84.2 (35.6)	30.8 (13.0)	0.32 (0.14)	111.0 (46.8)	140.0 (24.0)	51.1 (8.8)	0.55 (0.09)	187.0 (32.3)				
2	49.1 (7.5)	18.0 (2.8)	0.19 (0.03)	64.5 (9.9)	97.6 (36.9)	35.7 (13.5)	0.38 (0.15)	130.0 (49.3)				
3	71.3 (15.9)	26.1 (5.8)	0.27 (0.06)	93.7 (20.9)	121.0 (12.7)	44.3 (4.7)	0.48 (0.05)	161.0 (16.8)				
4	87.5 (20.1)	32.0 (7.4)	0.33 (0.08)	115.0 (26.5)	113.0 (40.7)	41.3 (14.9)	0.44 (0.16)	150.0 (54.2)				
5	71.1 (21.6)	26.0 (7.9)	0.27 (0.08)	93.3 (28.3)	92.9 (24.8)	34.0 (9.1)	0.37 (0.10)	123.0 (32.9)				
6	54.0 (20.6)	19.8 (7.5)	0.21 (0.08)	70.9 (27.0)	95.9 (11.3)	35.1 (4.1)	0.38 (0.04)	127.0 (14.9)				
7	38.3 (11.2)	14.0 (4.1)	0.15 (0.04)	50.3 (14.7)	63.4 (45.5)	23.2 (16.6)	0.25 (0.18)	83.7 (60.1)				
8												
9												
10	19.6 (6.6)	7.2 (2.4)	0.08 (0.03)	25.7 (8.6)	31.6 (5.6)	11.5 (2.0)	0.12 (0.02)	41.6 (7.4)				
11												
12												
13	67.0 (29.6)	24.5 (10.8)	0.26 (0.11)	87.6 (38.8)	123.0 (31.3)	44.9 (11.5)	0.48 (0.12)	162.0 (41.3)				
14	31.6 (12.3)	11.6 (4.5)	0.12 (0.05)	41.4 (16.0)	84.6 (22.5)	31.0 (8.2)	0.33 (0.09)	112.0 (29.7)				
15	27.6 (6.4)	10.1 (2.3)	0.11 (0.02)	36.1 (8.4)	86.8 (15.5)	31.8 (5.7)	0.34 (0.06)	115.0 (20.4)				
16	23.0 (5.0)	8.4 (1.8)	0.09 (0.02)	30.1 (6.5)	86.7 (13.5)	31.7 (5.0)	0.34 (0.05)	115.0 (17.9)				
17	76.6 (54.9)	28.0 (20.1)	0.29 (0.21)	100.0 (71.7)	140.0 (49.0)	51.3 (17.9)	0.55 (0.19)	186.0 (64.9)				
18	102.0 (40.3)	37.4 (14.7)	0.39 (0.15)	133.0 (52.6)	187.0 (24.9)	68.5 (9.1)	0.74 (0.10)	248.0 (32.9)				
19	135.0 (24.9)	49.5 (9.1)	0.52 (0.10)	177.0 (32.5)	166.0 (31.1)	60.6 (11.4)	0.65 (0.12)	219.0 (41.2)				
20	132.0 (47.9)	48.3 (17.5)	0.50 (0.18)	172.0 (62.4)	129.0 (35.1)	47.0 (12.8)	0.51 (0.14)	170.0 (46.5)				
21	54.8 (29.0)	20.0 (10.6)	0.21 (0.11)	71.3 (37.8)	98.4 (30.5)	36.0 (11.1)	0.39 (0.12)	130.0 (40.4)				
22												
23												
24	36.5 (18.8)	13.4 (6.9)	0.14 (0.07)	47.5 (24.4)	101.0 (36.1)	36.9 (13.2)	0.40 (0.14)	134.0 (47.9)				
25	54.0 (19.9)	19.7 (7.3)	0.21 (0.08)	70.1 (25.8)	111.0 (18.7)	40.7 (6.8)	0.44 (0.07)	148.0 (24.8)				
26	35.2 (12.2)	12.9 (4.5)	0.13 (0.05)	45.7 (15.9)	104.0 (18.9)	38.2 (6.9)	0.41 (0.07)	139.0 (25.1)				
27	31.9 (14.5)	11.7 (5.3)	0.12 (0.06)	41.4 (18.9)	86.0 (25.6)	31.4 (9.4)	0.34 (0.10)	114.0 (34.0)				
28												
29	21.4 (7.4)	7.9 (2.7)	0.08 (0.03)	27.8 (9.6)	73.8 (14.0)	27.0 (5.1)	0.29 (0.06)	98.2 (18.6)				
Avg	59.3	21.7	0.23	77.5	106.0	38.8	0.42	141.0				
n	22	22	22	22	22	22	22	22	0	0	0	0
SD	32.7	12.0	0.13	42.7	33.0	12.1	0.13	43.9				
Min	19.6	7.2	0.08	25.7	31.6	11.5	0.12	41.6				
Max	135.0	49.5	0.52	177.0	187.0	68.5	0.74	248.0				

Table F13. Daily means (SD) of ammonia emissions at site IN2B for March, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	31.8 (7.6)	11.6 (2.8)	0.12 (0.03)	41.3 (9.8)	69.2 (7.6)	25.3 (2.8)	0.27 (0.03)	92.1 (10.1)				
2	56.6 (19.1)	20.7 (7.0)	0.22 (0.07)	73.5 (24.8)	94.0 (11.2)	34.4 (4.1)	0.37 (0.04)	125.0 (15.0)				
3	73.4 (29.5)	26.8 (10.8)	0.28 (0.11)	95.5 (38.4)	102.0 (21.5)	37.4 (7.9)	0.40 (0.09)	136.0 (28.6)				
4	38.2 (10.0)	14.0 (3.7)	0.15 (0.04)	49.7 (13.0)	89.5 (10.7)	32.7 (3.9)	0.35 (0.04)	119.0 (14.3)				
5	48.9 (9.7)	17.9 (3.5)	0.19 (0.04)	63.8 (12.6)	61.2 (22.8)	22.4 (8.3)	0.24 (0.09)	81.4 (30.3)				
6	52.4 (6.7)	19.2 (2.5)	0.20 (0.03)	68.5 (8.8)	48.9 (6.8)	17.9 (2.5)	0.19 (0.03)	65.1 (9.0)				
7	55.7 (15.1)	20.4 (5.5)	0.21 (0.06)	72.9 (19.7)	54.0 (7.4)	19.7 (2.7)	0.21 (0.03)	71.9 (9.9)				
8	44.4 (7.1)	16.3 (2.6)	0.17 (0.03)	58.2 (9.3)	57.4 (12.8)	21.0 (4.7)	0.23 (0.05)	76.6 (17.1)				
9	59.6 (12.6)	21.8 (4.6)	0.23 (0.05)	78.1 (16.5)	68.3 (4.1)	25.0 (1.5)	0.27 (0.02)	91.0 (5.5)				
10	71.9 (16.6)	26.3 (6.1)	0.28 (0.06)	94.1 (21.7)	73.4 (12.7)	26.9 (4.7)	0.29 (0.05)	97.9 (16.9)				
11	79.4 (9.5)	29.0 (3.5)	0.30 (0.04)	104.0 (12.4)	66.8 (10.5)	24.4 (3.9)	0.26 (0.04)	89.1 (14.1)				
12	77.6 (28.9)	28.4 (10.6)	0.30 (0.11)	102.0 (37.8)	48.5 (15.1)	17.8 (5.5)	0.19 (0.06)	64.8 (20.1)				
13	45.3 (13.3)	16.6 (4.9)	0.17 (0.05)	59.3 (17.4)	36.8 (3.3)	13.5 (1.2)	0.15 (0.01)	49.1 (4.4)				
14	48.3 (12.0)	17.7 (4.4)	0.19 (0.05)	63.3 (15.8)	40.1 (4.5)	14.7 (1.6)	0.16 (0.02)	53.5 (6.0)				
15	34.9 (6.1)	12.8 (2.2)	0.13 (0.02)	45.8 (8.0)	33.8 (5.6)	12.3 (2.0)	0.13 (0.02)	45.0 (7.4)				
16	44.4 (7.1)	16.2 (2.6)	0.17 (0.03)	58.2 (9.3)	38.2 (3.7)	14.0 (1.4)	0.15 (0.02)	50.8 (4.9)				
17	63.2 (14.5)	23.1 (5.3)	0.24 (0.06)	82.8 (19.1)	49.6 (6.8)	18.1 (2.5)	0.20 (0.03)	65.8 (9.0)				
18	116.0 (28.9)	42.3 (10.6)	0.44 (0.11)	151.0 (37.9)	55.0 (8.2)	20.1 (3.0)	0.22 (0.03)	72.9 (10.9)				
19	68.9 (21.1)	25.2 (7.7)	0.26 (0.08)	90.3 (27.6)	44.5 (11.2)	16.3 (4.1)	0.18 (0.04)	58.9 (14.8)				
20	66.3 (10.3)	24.3 (3.8)	0.25 (0.04)	86.9 (13.5)	40.1 (5.1)	14.7 (1.9)	0.16 (0.02)	53.0 (6.7)				
21	60.8 (9.1)	22.2 (3.3)	0.23 (0.04)	79.6 (11.9)	42.6 (4.6)	15.6 (1.7)	0.17 (0.02)	56.1 (6.0)				
22	43.1 (10.8)	15.8 (3.9)	0.17 (0.04)	56.5 (14.1)	40.1 (7.2)	14.7 (2.6)	0.16 (0.03)	52.8 (9.5)				
23	54.0 (11.7)	19.8 (4.3)	0.21 (0.05)	70.8 (15.3)	51.2 (5.7)	18.7 (2.1)	0.20 (0.02)	67.3 (7.5)				
24	58.3 (11.3)	21.3 (4.1)	0.22 (0.04)	76.4 (14.8)	59.3 (8.4)	21.7 (3.1)	0.24 (0.03)	78.0 (11.0)				
25	70.7 (26.2)	25.9 (9.6)	0.27 (0.10)	92.7 (34.3)	58.3 (8.9)	21.3 (3.2)	0.23 (0.04)	76.6 (11.7)				
26	61.0 (8.3)	22.3 (3.0)	0.23 (0.03)	79.9 (10.8)	46.3 (6.2)	16.9 (2.3)	0.18 (0.03)	60.8 (8.2)				
27	71.1 (43.6)	26.0 (15.9)	0.27 (0.17)	93.1 (57.1)	67.9 (39.6)	24.8 (14.5)	0.27 (0.16)	89.2 (52.0)				
28	44.2 (5.0)	16.2 (1.8)	0.17 (0.02)	58.0 (6.6)								
29	55.3 (8.1)	20.2 (3.0)	0.21 (0.03)	72.5 (10.6)	38.1 (4.8)	13.9 (1.8)	0.15 (0.02)	50.1 (6.3)				
30	86.0 (18.5)	31.5 (6.8)	0.33 (0.07)	113.0 (24.2)	52.5 (10.2)	19.2 (3.7)	0.21 (0.04)	69.2 (13.4)				
31	170.0 (36.0)	62.3 (13.2)	0.65 (0.14)	223.0 (47.2)	74.6 (15.0)	27.3 (5.5)	0.30 (0.06)	98.7 (19.8)				
Avg	63.0	23.0	0.24	82.4	56.7	20.8	0.23	75.3				
n	31	31	31	31	30	30	30	30	0	0	0	0
SD	25.8	9.4	0.10	33.8	17.1	6.3	0.07	22.9				
Min	31.8	11.6	0.12	41.3	33.8	12.3	0.13	45.0				
Max	170.0	62.3	0.65	223.0	102.0	37.4	0.40	136.0				

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for April, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	88.9 (37.6)	32.5 (13.8)	0.34 (0.14)	116.0 (49.2)	56.1 (19.1)	20.5 (7.0)	0.22 (0.08)	74.4 (25.3)				
2	91.1 (8.0)	33.3 (2.9)	0.35 (0.03)	119.0 (10.5)	39.0 (8.0)	14.3 (2.9)	0.16 (0.03)	51.9 (10.6)				
3												
4	101.0 (12.9)	36.8 (4.7)	0.39 (0.05)	132.0 (16.8)	49.0 (8.0)	17.9 (2.9)	0.20 (0.03)	65.4 (10.6)				
5	130.0 (32.7)	47.7 (11.9)	0.50 (0.13)	171.0 (42.8)	54.7 (8.1)	20.0 (3.0)	0.22 (0.03)	73.3 (10.9)				
6	156.0 (64.6)	57.1 (23.6)	0.60 (0.25)	205.0 (84.8)	73.1 (23.1)	26.7 (8.4)	0.29 (0.09)	97.9 (30.9)				
7	143.0 (47.9)	52.5 (17.5)	0.55 (0.18)	188.0 (62.9)	77.0 (21.7)	28.2 (7.9)	0.31 (0.09)	103.0 (29.0)				
8	130.0 (45.3)	47.5 (16.6)	0.50 (0.17)	171.0 (59.6)	58.1 (12.2)	21.3 (4.5)	0.23 (0.05)	78.0 (16.4)				
9	68.4 (28.2)	25.0 (10.3)	0.26 (0.11)	90.1 (37.1)	44.9 (12.0)	16.4 (4.4)	0.18 (0.05)	60.3 (16.1)	2.84 (3.21)	1.09 (1.24)	0.006 (0.006)	1.89 (2.14)
10	81.9 (17.6)	29.9 (6.5)	0.31 (0.07)	108.0 (23.3)	55.1 (10.4)	20.2 (3.8)	0.22 (0.04)	74.0 (14.0)	1.26 (1.50)	0.49 (0.58)	0.002 (0.003)	0.84 (1.00)
11	108.0 (57.3)	39.7 (21.0)	0.42 (0.22)	144.0 (75.8)	63.8 (23.7)	23.3 (8.7)	0.26 (0.10)	85.8 (31.8)	4.31 (5.24)	1.66 (2.02)	0.008 (0.010)	2.88 (3.50)
12	57.2 (6.5)	20.9 (2.4)	0.22 (0.03)	75.8 (8.6)	51.7 (5.7)	18.9 (2.1)	0.21 (0.02)	69.5 (7.6)	3.66 (2.59)	1.41 (1.00)	0.007 (0.005)	2.44 (1.73)
13	83.1 (14.0)	30.4 (5.1)	0.32 (0.05)	110.0 (18.7)	64.2 (16.2)	23.5 (5.9)	0.26 (0.07)	86.3 (21.8)	5.27 (5.07)	2.03 (1.96)	0.010 (0.010)	3.52 (3.39)
14	93.3 (16.9)	34.1 (6.2)	0.36 (0.07)	124.0 (22.5)	69.2 (14.5)	25.3 (5.3)	0.28 (0.06)	92.9 (19.5)	2.43 (3.15)	0.94 (1.21)	0.005 (0.006)	1.62 (2.10)
15	84.7 (17.7)	31.0 (6.5)	0.32 (0.07)	113.0 (23.5)	40.4 (14.9)	14.8 (5.5)	0.16 (0.06)	54.2 (20.0)	10.40 (7.44)	4.01 (2.87)	0.020 (0.015)	6.95 (4.97)
16	70.7 (14.5)	25.9 (5.3)	0.27 (0.06)	94.2 (19.4)	26.5 (6.9)	9.7 (2.5)	0.11 (0.03)	35.6 (9.2)	15.00 (22.00)	5.79 (8.50)	0.029 (0.043)	10.00 (14.70)
17									30.80 (73.60)	11.90 (28.40)	0.060 (0.144)	20.60 (49.20)
18	57.8 (16.3)	21.1 (6.0)	0.22 (0.06)	77.3 (21.8)	32.4 (19.8)	11.8 (7.2)	0.13 (0.08)	43.4 (26.5)	13.10 (17.80)	5.06 (6.88)	0.026 (0.035)	8.78 (11.90)
19	32.1 (6.7)	11.7 (2.5)	0.12 (0.03)	42.9 (9.0)	29.9 (5.2)	10.9 (1.9)	0.12 (0.02)	40.0 (7.0)	4.42 (4.27)	1.71 (1.65)	0.009 (0.008)	2.96 (2.86)
20	64.7 (28.8)	23.7 (10.5)	0.25 (0.11)	86.6 (38.6)	55.6 (12.5)	20.3 (4.6)	0.22 (0.05)	74.4 (16.7)	4.34 (7.66)	1.67 (2.95)	0.009 (0.015)	2.90 (5.13)
21	81.9 (23.3)	29.9 (8.5)	0.31 (0.09)	110.0 (31.2)	50.1 (23.0)	18.3 (8.4)	0.20 (0.09)	67.0 (30.7)	3.51 (2.57)	1.35 (0.99)	0.007 (0.005)	2.35 (1.72)
22	80.6 (17.0)	29.5 (6.2)	0.31 (0.07)	108.0 (22.8)	29.3 (6.7)	10.7 (2.5)	0.12 (0.03)	39.2 (8.9)	4.83 (4.18)	1.86 (1.61)	0.009 (0.008)	3.23 (2.80)
23												
24												
25	62.0 (8.9)	22.7 (3.2)	0.24 (0.03)	83.2 (11.9)	16.6 (15.2)	6.1 (5.6)	0.07 (0.06)	22.2 (20.2)	4.94 (2.53)	1.91 (0.98)	0.010 (0.005)	3.31 (1.69)
26	26.3 (5.7)	9.6 (2.1)	0.10 (0.02)	35.3 (7.6)	20.3 (5.6)	7.4 (2.1)	0.08 (0.02)	27.1 (7.5)	0.61 (0.48)	0.24 (0.19)	0.001 (0.001)	0.41 (0.32)
27	37.0 (6.0)	13.5 (2.2)	0.14 (0.02)	49.8 (8.1)	32.6 (6.9)	11.9 (2.5)	0.13 (0.03)	43.7 (9.3)	0.30 (0.36)	0.12 (0.14)	0.001 (0.001)	0.20 (0.24)
28												
29	51.0 (8.8)	18.7 (3.2)	0.20 (0.03)	68.8 (11.9)	23.7 (2.8)	8.7 (1.0)	0.10 (0.01)	31.9 (3.8)	0.42 (1.41)	0.16 (0.54)	0.001 (0.003)	0.28 (0.95)
30	47.4 (8.6)	17.3 (3.1)	0.18 (0.03)	64.1 (11.6)	26.4 (6.0)	9.7 (2.2)	0.11 (0.02)	35.8 (8.1)	0.45 (0.73)	0.17 (0.28)	0.001 (0.001)	0.30 (0.50)
Avg	81.2	29.7	0.31	107.0	45.6	16.7	0.18	61.1	5.94	2.29	0.012	3.97
n	25	25	25	25	25	25	25	25	19	19	19	19
SD	33.0	12.1	0.13	42.9	17.0	6.2	0.07	22.8	7.10	2.74	0.014	4.75
Min	26.3	9.6	0.10	35.3	16.6	6.1	0.07	22.2	0.30	0.12	0.001	0.20
Max	156.0	57.1	0.60	205.0	77.0	28.2	0.31	103.0	30.80	11.90	0.060	20.60

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for May, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1												
2	60.3 (10.8)	22.1 (4.0)	0.23 (0.04)	81.8 (14.6)	50.7 (9.9)	18.6 (3.6)	0.20 (0.04)	69.2 (13.5)	2.48 (1.57)	0.96 (0.60)	0.005 (0.003)	1.68 (1.06)
3	46.0 (15.9)	16.8 (5.8)	0.18 (0.06)	62.4 (21.6)	37.0 (19.0)	13.5 (7.0)	0.15 (0.08)	50.5 (26.0)	2.77 (3.55)	1.07 (1.37)	0.005 (0.007)	1.89 (2.41)
4	54.9 (13.9)	20.1 (5.1)	0.21 (0.05)	74.3 (18.8)	31.4 (7.2)	11.5 (2.6)	0.13 (0.03)	42.6 (9.7)	1.86 (1.37)	0.72 (0.53)	0.004 (0.003)	1.26 (0.93)
5	67.8 (16.9)	24.8 (6.2)	0.26 (0.07)	91.6 (22.8)	31.9 (7.7)	11.7 (2.8)	0.13 (0.03)	43.2 (10.4)	2.92 (1.55)	1.13 (0.60)	0.006 (0.003)	1.98 (1.05)
6	64.4 (13.4)	23.6 (4.9)	0.25 (0.05)	87.0 (18.1)	34.0 (7.8)	12.5 (2.8)	0.14 (0.03)	45.9 (10.4)	2.25 (1.89)	0.87 (0.73)	0.004 (0.004)	1.52 (1.27)
7	49.4 (17.1)	18.1 (6.2)	0.19 (0.07)	66.6 (23.0)	35.4 (10.0)	13.0 (3.6)	0.14 (0.04)	47.6 (13.4)	1.19 (3.11)	0.46 (1.20)	0.002 (0.006)	0.80 (2.10)
8	46.3 (4.9)	16.9 (1.8)	0.18 (0.02)	62.4 (6.5)	38.9 (6.3)	14.2 (2.3)	0.16 (0.03)	52.2 (8.5)	0.94 (0.89)	0.36 (0.35)	0.002 (0.002)	0.63 (0.60)
9	53.0 (10.4)	19.4 (3.8)	0.20 (0.04)	71.2 (14.0)	45.9 (5.7)	16.8 (2.1)	0.19 (0.02)	61.4 (7.6)	0.47 (0.48)	0.18 (0.19)	0.001 (0.001)	0.32 (0.32)
10	54.2 (13.8)	19.8 (5.0)	0.21 (0.05)	72.9 (18.5)	46.7 (8.9)	17.1 (3.3)	0.19 (0.04)	62.4 (11.9)	1.48 (1.55)	0.57 (0.60)	0.003 (0.003)	0.99 (1.04)
11	48.6 (6.6)	17.8 (2.4)	0.19 (0.03)	65.5 (8.9)	45.2 (4.6)	16.6 (1.7)	0.18 (0.02)	60.4 (6.1)	1.29 (1.55)	0.50 (0.60)	0.003 (0.003)	0.86 (1.04)
12	62.7 (13.2)	22.9 (4.8)	0.24 (0.05)	84.6 (17.8)	47.5 (7.0)	17.4 (2.6)	0.19 (0.03)	63.3 (9.3)	1.25 (2.23)	0.48 (0.86)	0.002 (0.004)	0.84 (1.49)
13	71.5 (20.3)	26.2 (7.4)	0.27 (0.08)	96.6 (27.5)	47.3 (8.3)	17.3 (3.0)	0.19 (0.03)	63.0 (11.0)	9.04 (8.35)	3.48 (3.22)	0.018 (0.016)	6.06 (5.60)
14									6.56 (5.18)	2.53 (2.00)	0.013 (0.010)	4.40 (3.47)
15					42.7 (4.1)	15.6 (1.5)	0.17 (0.02)	56.8 (5.4)	2.59 (1.99)	1.00 (0.77)	0.005 (0.004)	1.74 (1.34)
16					43.6 (5.0)	15.9 (1.8)	0.18 (0.02)	58.0 (6.6)	2.32 (3.15)	0.89 (1.22)	0.005 (0.006)	1.56 (2.12)
17					38.4 (7.5)	14.0 (2.8)	0.16 (0.03)	51.0 (10.0)	2.32 (3.78)	0.89 (1.46)	0.005 (0.007)	1.56 (2.54)
18					38.3 (5.5)	14.0 (2.0)	0.16 (0.02)	51.0 (7.3)	2.19 (4.05)	0.85 (1.56)	0.004 (0.008)	1.47 (2.72)
19					57.0 (7.1)	20.9 (2.6)	0.23 (0.03)	75.9 (9.4)	2.39 (2.47)	0.92 (0.95)	0.005 (0.005)	1.61 (1.66)
20					47.5 (5.6)	17.4 (2.1)	0.19 (0.02)	63.3 (7.5)	1.29 (1.58)	0.50 (0.61)	0.003 (0.003)	0.87 (1.06)
21					37.9 (6.7)	13.9 (2.4)	0.15 (0.03)	50.5 (8.9)	2.00 (3.38)	0.77 (1.30)	0.004 (0.007)	1.34 (2.27)
22					38.1 (5.2)	13.9 (1.9)	0.15 (0.02)	50.8 (6.9)	5.65 (12.90)	2.18 (4.96)	0.011 (0.025)	3.79 (8.63)
23					44.4 (5.6)	16.2 (2.0)	0.18 (0.02)	59.1 (7.4)	2.22 (2.46)	0.86 (0.95)	0.004 (0.005)	1.49 (1.65)
24	64.9 (14.7)	23.7 (5.4)	0.25 (0.06)	87.6 (19.9)	45.5 (5.7)	16.7 (2.1)	0.18 (0.02)	60.7 (7.6)	2.39 (2.29)	0.92 (0.88)	0.005 (0.005)	1.60 (1.53)
25	110.0 (43.7)	40.3 (16.0)	0.42 (0.17)	149.0 (59.1)	52.0 (16.5)	19.0 (6.0)	0.21 (0.07)	69.3 (22.0)	5.47 (3.43)	2.11 (1.32)	0.011 (0.007)	3.67 (2.30)
26	139.0 (22.6)	50.7 (8.3)	0.53 (0.09)	188.0 (30.6)	62.7 (15.6)	22.9 (5.7)	0.25 (0.06)	83.6 (20.8)	4.78 (4.74)	1.84 (1.83)	0.009 (0.009)	3.21 (3.18)
27	73.8 (22.0)	27.0 (8.1)	0.28 (0.09)	99.8 (29.8)	40.8 (5.3)	14.9 (1.9)	0.17 (0.02)	54.3 (7.0)	2.67 (2.41)	1.03 (0.93)	0.005 (0.005)	1.80 (1.61)
28	69.4 (13.9)	25.4 (5.1)	0.27 (0.05)	94.0 (18.8)	38.4 (4.4)	14.0 (1.6)	0.16 (0.02)	51.1 (5.9)	1.96 (1.23)	0.75 (0.48)	0.004 (0.002)	1.31 (0.83)
29	61.2 (11.6)	22.4 (4.3)	0.24 (0.05)	82.8 (15.7)	34.8 (3.5)	12.7 (1.3)	0.14 (0.01)	46.4 (4.7)	2.74 (3.17)	1.06 (1.22)	0.005 (0.006)	1.84 (2.13)
30	65.2 (19.4)	23.9 (7.1)	0.25 (0.07)	88.4 (26.2)	42.0 (7.9)	15.4 (2.9)	0.17 (0.03)	55.9 (10.4)	6.37 (4.74)	2.46 (1.83)	0.013 (0.009)	4.28 (3.18)
31	74.3 (14.6)	27.2 (5.3)	0.29 (0.06)	101.0 (19.8)	51.5 (6.3)	18.8 (2.3)	0.21 (0.03)	68.5 (8.3)	1.47 (2.81)	0.57 (1.08)	0.003 (0.006)	0.99 (1.89)
Avg	66.8	24.4	0.26	90.3	43.0	15.7	0.17	57.5	2.84	1.10	0.006	1.91
n	20	20	20	20	29	29	29	29	30	30	30	30
SD	21.5	7.9	0.08	29.1	7.3	2.7	0.03	9.6	1.92	0.74	0.004	1.29
Min	46.0	16.8	0.18	62.4	31.4	11.5	0.13	42.6	0.47	0.18	0.001	0.32
Max	139.0	50.7	0.53	188.0	62.7	22.9	0.25	83.6	9.04	3.48	0.018	6.06

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for June, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	77.4 (29.8)	28.3 (10.9)	0.30 (0.12)	105.0 (40.6)	60.8 (10.4)	22.2 (3.8)	0.25 (0.04)	80.9 (13.8)	1.12 (1.19)	0.43 (0.46)	0.002 (0.002)	0.75 (0.80)
2	96.3 (48.9)	35.2 (17.9)	0.37 (0.19)	131.0 (66.6)	61.9 (22.5)	22.6 (8.2)	0.25 (0.09)	82.4 (30.0)	2.46 (2.10)	0.95 (0.81)	0.005 (0.004)	1.66 (1.42)
3	90.4 (14.2)	33.1 (5.2)	0.35 (0.06)	123.0 (19.4)	61.5 (8.8)	22.5 (3.2)	0.25 (0.04)	81.8 (11.7)	2.96 (2.86)	1.14 (1.10)	0.006 (0.006)	1.99 (1.93)
4	125.0 (12.2)	45.7 (4.5)	0.48 (0.05)	171.0 (16.7)	67.7 (9.4)	24.8 (3.4)	0.28 (0.04)	90.0 (12.5)	4.92 (4.01)	1.90 (1.55)	0.010 (0.008)	3.32 (2.70)
5	147.0 (26.3)	53.6 (9.6)	0.56 (0.10)	201.0 (36.0)	84.6 (13.4)	31.0 (4.9)	0.34 (0.05)	113.0 (17.8)	6.19 (3.79)	2.39 (1.46)	0.012 (0.007)	4.18 (2.56)
6	113.0 (29.3)	41.2 (10.7)	0.43 (0.11)	155.0 (40.2)	65.8 (11.9)	24.1 (4.4)	0.27 (0.05)	87.5 (15.9)	8.96 (4.60)	3.45 (1.77)	0.018 (0.009)	6.05 (3.11)
7	99.6 (12.2)	36.4 (4.5)	0.38 (0.05)	137.0 (16.6)	58.2 (10.4)	21.3 (3.8)	0.24 (0.04)	77.5 (13.8)	7.01 (4.11)	2.70 (1.58)	0.014 (0.008)	4.74 (2.77)
8	153.0 (38.7)	55.8 (14.1)	0.59 (0.15)	209.0 (52.9)	98.3 (17.1)	36.0 (6.3)	0.40 (0.07)	131.0 (22.8)	5.19 (2.80)	2.00 (1.08)	0.010 (0.006)	3.51 (1.89)
9	150.0 (45.6)	54.8 (16.7)	0.58 (0.18)	205.0 (62.4)	108.0 (15.1)	39.4 (5.5)	0.44 (0.06)	144.0 (20.1)	4.09 (3.74)	1.58 (1.44)	0.008 (0.007)	2.76 (2.53)
10	91.3 (17.3)	33.4 (6.3)	0.35 (0.07)	125.0 (23.6)	44.7 (12.6)	16.3 (4.6)	0.18 (0.05)	59.8 (16.9)	2.36 (2.47)	0.91 (0.95)	0.005 (0.005)	1.60 (1.67)
11	79.8 (14.9)	29.2 (5.5)	0.31 (0.06)	109.0 (20.4)	48.3 (7.7)	17.7 (2.8)	0.20 (0.03)	64.7 (10.3)	6.53 (5.01)	2.52 (1.93)	0.013 (0.010)	4.41 (3.39)
12	72.1 (8.1)	26.4 (3.0)	0.28 (0.03)	98.1 (11.0)	52.1 (5.3)	19.1 (1.9)	0.21 (0.02)	70.1 (7.1)	4.66 (2.99)	1.80 (1.15)	0.009 (0.006)	3.15 (2.02)
13	84.5 (9.7)	30.9 (3.6)	0.33 (0.04)	115.0 (13.2)	52.8 (11.9)	19.3 (4.4)	0.22 (0.05)	71.1 (16.1)				
14	90.6 (14.4)	33.1 (5.3)	0.35 (0.06)	123.0 (19.6)	48.4 (11.3)	17.7 (4.1)	0.20 (0.05)	65.6 (15.2)	1.30 (0.97)	0.50 (0.38)	0.003 (0.002)	0.88 (0.66)
15	87.0 (23.4)	31.8 (8.6)	0.34 (0.09)	118.0 (31.8)	63.0 (16.6)	23.1 (6.1)	0.26 (0.07)	86.7 (23.0)	1.59 (1.04)	0.61 (0.40)	0.003 (0.002)	1.09 (0.71)
16	84.7 (24.7)	31.0 (9.0)	0.33 (0.10)	115.0 (33.5)					0.70 (0.84)	0.27 (0.32)	0.001 (0.002)	0.48 (0.58)
17	61.9 (8.7)	22.6 (3.2)	0.24 (0.03)	84.2 (11.9)	46.2 (7.0)	16.9 (2.6)	0.19 (0.03)	65.4 (9.8)	0.97 (0.92)	0.37 (0.35)	0.002 (0.002)	0.67 (0.64)
18	52.8 (10.0)	19.3 (3.6)	0.20 (0.04)	71.8 (13.5)	40.8 (6.7)	14.9 (2.5)	0.17 (0.03)	58.5 (9.5)	0.48 (0.65)	0.18 (0.25)	0.001 (0.001)	0.33 (0.45)
19	49.2 (10.3)	18.0 (3.8)	0.19 (0.04)	67.0 (14.0)	35.6 (6.3)	13.0 (2.3)	0.15 (0.03)	51.8 (9.1)	0.65 (0.61)	0.25 (0.24)	0.001 (0.001)	0.46 (0.43)
20	43.0 (6.7)	15.7 (2.4)	0.17 (0.03)	58.5 (9.1)	35.8 (7.1)	13.1 (2.6)	0.15 (0.03)	52.9 (10.3)	1.16 (1.01)	0.45 (0.39)	0.002 (0.002)	0.82 (0.72)
21	46.1 (10.5)	16.8 (3.9)	0.18 (0.04)	62.7 (14.3)	33.6 (5.1)	12.3 (1.9)	0.14 (0.02)	50.0 (7.6)	1.34 (1.05)	0.52 (0.41)	0.003 (0.002)	0.95 (0.75)
22	59.4 (20.2)	21.7 (7.4)	0.23 (0.08)	80.8 (27.4)	51.2 (10.3)	18.7 (3.8)	0.21 (0.04)	75.8 (15.3)	0.97 (1.17)	0.38 (0.45)	0.002 (0.002)	0.69 (0.83)
23	79.2 (19.4)	29.0 (7.1)	0.31 (0.08)	108.0 (26.4)	57.0 (7.8)	20.8 (2.9)	0.23 (0.03)	84.1 (11.5)	0.44 (0.57)	0.17 (0.22)	0.001 (0.001)	0.31 (0.41)
24	79.4 (19.1)	29.1 (7.0)	0.31 (0.07)	108.0 (25.8)	37.5 (24.2)	13.7 (8.9)	0.15 (0.10)	55.1 (35.6)	0.57 (0.58)	0.22 (0.22)	0.001 (0.001)	0.40 (0.41)
25	78.9 (11.5)	28.9 (4.2)	0.30 (0.04)	107.0 (15.5)					14.60 (20.30)	5.63 (7.85)	0.029 (0.040)	10.30 (14.30)
26					80.3 (26.5)	29.4 (9.7)	0.33 (0.11)	117.0 (38.8)	39.40 (51.10)	15.20 (19.70)	0.078 (0.101)	27.70 (35.80)
27	79.5 (13.7)	29.1 (5.0)	0.31 (0.05)	107.0 (18.6)	68.8 (11.8)	25.2 (4.3)	0.28 (0.05)	100.0 (17.1)	86.30 (107.00)	33.30 (41.30)	0.171 (0.212)	60.60 (75.20)
28	78.7 (16.0)	28.8 (5.9)	0.30 (0.06)	106.0 (21.6)	56.6 (15.9)	20.7 (5.8)	0.23 (0.07)	81.8 (23.2)	4.13 (2.42)	1.59 (0.94)	0.008 (0.005)	2.89 (1.69)
29												
30												
Avg	87.0	31.8	0.34	119.0	58.4	21.4	0.24	80.7	7.82	3.01	0.016	5.43
n	27	27	27	27	26	26	26	26	27	27	27	27
SD	28.9	10.6	0.11	39.7	18.1	6.6	0.07	23.7	17.10	6.61	0.034	12.00
Min	43.0	15.7	0.17	58.5	33.6	12.3	0.14	50.0	0.44	0.17	0.001	0.31
Max	153.0	55.8	0.59	209.0	108.0	39.4	0.44	144.0	86.30	33.30	0.171	60.60

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for July, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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17												
18												
19												
20												
21												
22												
23												
24	50.3 (8.1)	18.4 (3.0)	0.19 (0.03)	68.5 (11.0)	41.6 (6.3)	15.2 (2.3)	0.17 (0.03)	56.3 (8.6)	1.18 (1.17)	0.46 (0.45)	0.002 (0.002)	0.80 (0.79)
25	42.6 (6.3)	15.6 (2.3)	0.17 (0.02)	57.9 (8.5)	43.3 (6.0)	15.8 (2.2)	0.18 (0.03)	58.5 (8.1)	1.59 (1.26)	0.62 (0.49)	0.003 (0.003)	1.08 (0.85)
26	55.1 (14.3)	20.2 (5.2)	0.21 (0.06)	75.0 (19.5)	41.3 (12.5)	15.1 (4.6)	0.17 (0.05)	55.9 (16.9)	0.91 (2.61)	0.35 (1.01)	0.002 (0.005)	0.62 (1.77)
27	70.7 (23.2)	25.8 (8.5)	0.27 (0.09)	96.0 (31.5)	66.7 (18.3)	24.4 (6.7)	0.27 (0.08)	90.1 (24.8)	0.96 (0.91)	0.37 (0.35)	0.002 (0.002)	0.65 (0.61)
28	83.2 (20.5)	30.4 (7.5)	0.32 (0.08)	113.0 (27.9)	69.5 (17.0)	25.4 (6.2)	0.29 (0.07)	94.0 (23.0)	1.29 (1.63)	0.50 (0.63)	0.003 (0.003)	0.87 (1.10)
29	64.5 (9.1)	23.6 (3.3)	0.25 (0.04)	87.7 (12.3)	59.1 (11.7)	21.6 (4.3)	0.24 (0.05)	79.9 (15.8)	1.65 (4.29)	0.64 (1.66)	0.003 (0.009)	1.12 (2.91)
30	63.5 (10.0)	23.2 (3.6)	0.25 (0.04)	86.4 (13.5)					2.05 (7.60)	0.79 (2.93)	0.004 (0.015)	1.39 (5.15)
31	74.6 (16.0)	27.3 (5.9)	0.29 (0.06)	101.0 (21.8)	54.1 (11.2)	19.8 (4.1)	0.22 (0.05)	72.9 (15.1)	1.08 (2.27)	0.42 (0.88)	0.002 (0.005)	0.73 (1.54)
Avg	63.1	23.1	0.24	85.8	53.7	19.6	0.22	72.5	1.34	0.52	0.003	0.91
n	8	8	8	8	7	7	7	7	8	8	8	8
SD	12.5	4.6	0.05	16.9	11.1	4.1	0.05	14.9	0.37	0.14	0.001	0.25
Min	42.6	15.6	0.17	57.9	41.3	15.1	0.17	55.9	0.91	0.35	0.002	0.62
Max	83.2	30.4	0.32	113.0	69.5	25.4	0.29	94.0	2.05	0.79	0.004	1.39

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for August, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	77.7 (26.3)	28.4 (9.6)	0.30 (0.10)	106.0 (35.8)	74.4 (23.9)	27.2 (8.8)	0.31 (0.10)	100.0 (32.3)	1.29 (3.65)	0.50 (1.41)	0.003 (0.007)	0.87 (2.47)
2	31.8 (12.1)	11.6 (4.4)	0.12 (0.05)	43.3 (16.5)	26.8 (16.3)	9.8 (6.0)	0.11 (0.07)	36.0 (21.9)	0.86 (1.35)	0.33 (0.52)	0.002 (0.003)	0.58 (0.91)
3	41.9 (19.9)	15.3 (7.3)	0.16 (0.08)	57.1 (27.0)	64.0 (13.2)	23.4 (4.8)	0.26 (0.05)	86.0 (17.7)	2.71 (3.98)	1.05 (1.53)	0.005 (0.008)	1.83 (2.69)
4	55.1 (17.3)	20.1 (6.3)	0.21 (0.07)	75.0 (23.5)	41.6 (31.1)	15.2 (11.4)	0.17 (0.13)	55.8 (41.8)	2.62 (2.56)	1.01 (0.99)	0.005 (0.005)	1.77 (1.73)
5												
6	91.0 (22.8)	33.3 (8.3)	0.35 (0.09)	124.0 (31.0)	47.5 (16.0)	17.4 (5.9)	0.20 (0.07)	63.6 (21.4)	1.15 (3.84)	0.44 (1.48)	0.002 (0.008)	0.78 (2.59)
7												
8	53.8 (8.6)	19.7 (3.1)	0.21 (0.03)	73.5 (11.7)	41.0 (9.1)	15.0 (3.3)	0.17 (0.04)	54.7 (12.1)	0.78 (1.23)	0.30 (0.48)	0.002 (0.002)	0.53 (0.83)
9	50.7 (10.1)	18.5 (3.7)	0.20 (0.04)	69.2 (13.7)	44.2 (7.3)	16.2 (2.7)	0.18 (0.03)	59.0 (9.7)	2.04 (7.55)	0.79 (2.91)	0.004 (0.015)	1.37 (5.10)
10	63.8 (15.2)	23.3 (5.6)	0.25 (0.06)	87.1 (20.7)	61.1 (7.8)	22.3 (2.8)	0.25 (0.03)	81.6 (10.4)	1.21 (10.30)	0.47 (3.99)	0.002 (0.021)	0.82 (6.98)
11	70.4 (11.1)	25.8 (4.1)	0.27 (0.04)	96.1 (15.1)	66.1 (17.4)	24.2 (6.4)	0.27 (0.07)	88.4 (23.2)	1.05 (1.16)	0.41 (0.45)	0.002 (0.002)	0.71 (0.78)
12	77.4 (13.8)	28.3 (5.1)	0.30 (0.05)	106.0 (18.9)	65.7 (13.3)	24.0 (4.9)	0.27 (0.06)	88.0 (17.7)	2.56 (2.30)	0.99 (0.89)	0.005 (0.005)	1.73 (1.55)
13	62.0 (10.3)	22.7 (3.8)	0.24 (0.04)	84.6 (14.0)	52.9 (15.7)	19.3 (5.7)	0.22 (0.07)	70.8 (21.0)	1.49 (1.43)	0.58 (0.55)	0.003 (0.003)	1.01 (0.97)
14	60.4 (9.9)	22.1 (3.6)	0.23 (0.04)	82.3 (13.5)	56.0 (8.6)	20.5 (3.1)	0.23 (0.04)	75.2 (11.5)	1.09 (1.15)	0.42 (0.45)	0.002 (0.002)	0.74 (0.78)
15	58.0 (9.3)	21.2 (3.4)	0.23 (0.04)	79.1 (12.7)	51.6 (11.4)	18.9 (4.2)	0.21 (0.05)	69.3 (15.3)	0.94 (4.81)	0.36 (1.85)	0.002 (0.010)	0.64 (3.25)
16	52.9 (8.0)	19.4 (2.9)	0.21 (0.03)	72.2 (10.9)	48.2 (7.2)	17.6 (2.6)	0.20 (0.03)	64.8 (9.7)	1.23 (12.50)	0.48 (4.81)	0.002 (0.025)	0.84 (8.46)
17	78.7 (23.5)	28.8 (8.6)	0.31 (0.09)	108.0 (32.2)	76.9 (19.9)	28.1 (7.3)	0.32 (0.08)	104.0 (26.9)	1.52 (1.27)	0.58 (0.49)	0.003 (0.003)	1.03 (0.87)
18	83.3 (14.4)	30.5 (5.3)	0.32 (0.06)	114.0 (19.7)	83.6 (16.8)	30.6 (6.2)	0.35 (0.07)	113.0 (22.7)				
19	64.8 (18.1)	23.7 (6.6)	0.25 (0.07)	88.9 (24.9)	51.5 (28.8)	18.9 (10.5)	0.21 (0.12)	69.9 (39.0)				
20	51.9 (11.5)	19.0 (4.2)	0.20 (0.05)	71.4 (15.8)	55.2 (9.4)	20.2 (3.4)	0.23 (0.04)	75.1 (12.7)				
21	46.8 (10.5)	17.1 (3.9)	0.18 (0.04)	64.5 (14.5)	55.3 (7.1)	20.2 (2.6)	0.23 (0.03)	75.5 (9.7)	1.43 (1.05)	0.55 (0.40)	0.003 (0.002)	0.98 (0.72)
22	69.8 (12.3)	25.5 (4.5)	0.27 (0.05)	96.3 (16.9)	61.9 (10.2)	22.6 (3.7)	0.26 (0.04)	84.7 (13.9)	2.88 (2.77)	1.11 (1.07)	0.006 (0.006)	1.98 (1.90)
23	85.0 (13.3)	31.1 (4.9)	0.33 (0.05)	118.0 (18.4)	80.4 (8.6)	29.4 (3.2)	0.33 (0.04)	110.0 (11.8)	3.14 (3.42)	1.21 (1.32)	0.006 (0.007)	2.16 (2.35)
24	87.5 (22.2)	32.0 (8.1)	0.34 (0.09)	121.0 (30.7)	82.6 (17.1)	30.2 (6.3)	0.34 (0.07)	114.0 (23.5)	0.55 (1.92)	0.21 (0.74)	0.001 (0.004)	0.38 (1.32)
25	64.8 (15.7)	23.7 (5.7)	0.25 (0.06)	89.6 (21.7)	80.9 (14.7)	29.6 (5.4)	0.34 (0.06)	111.0 (20.2)	1.26 (1.04)	0.49 (0.40)	0.003 (0.002)	0.87 (0.72)
26	56.2 (12.3)	20.6 (4.5)	0.22 (0.05)	77.8 (17.0)	66.5 (9.6)	24.3 (3.5)	0.28 (0.04)	91.8 (13.2)	1.15 (0.94)	0.44 (0.36)	0.002 (0.002)	0.79 (0.65)
27	59.7 (13.5)	21.8 (5.0)	0.23 (0.05)	82.7 (18.8)	66.5 (11.3)	24.3 (4.1)	0.28 (0.05)	91.9 (15.6)	0.52 (0.45)	0.20 (0.18)	0.001 (0.001)	0.36 (0.31)
28									1.40 (1.50)	0.54 (0.58)	0.003 (0.003)	0.97 (1.04)
29	72.0 (22.0)	26.3 (8.0)	0.28 (0.09)	99.8 (30.4)	55.9 (26.1)	20.4 (9.6)	0.23 (0.11)	77.6 (36.2)	1.40 (1.73)	0.54 (0.67)	0.003 (0.003)	0.97 (1.20)
30	45.7 (9.7)	16.7 (3.5)	0.18 (0.04)	63.3 (13.4)	33.5 (19.9)	12.3 (7.3)	0.14 (0.08)	46.5 (27.6)	2.27 (19.30)	0.87 (7.43)	0.005 (0.039)	1.57 (13.40)
31	61.9 (19.4)	22.7 (7.1)	0.24 (0.08)	85.9 (26.9)	70.1 (21.3)	25.6 (7.8)	0.29 (0.09)	97.2 (29.6)	1.32 (1.07)	0.51 (0.41)	0.003 (0.002)	0.92 (0.74)
Avg	63.4	23.2	0.25	87.0	59.4	21.7	0.25	80.6	1.53	0.59	0.003	1.05
n	28	28	28	28	28	28	28	28	26	26	26	26
SD	14.3	5.2	0.06	19.7	14.6	5.4	0.06	20.2	0.72	0.28	0.001	0.49
Min	31.8	11.6	0.12	43.3	26.8	9.8	0.11	36.0	0.52	0.20	0.001	0.36
Max	91.0	33.3	0.35	124.0	83.6	30.6	0.35	114.0	3.14	1.21	0.006	2.16

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for September, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	55.9 (15.1)	20.4 (5.5)	0.22 (0.06)	77.5 (21.0)	64.1 (11.9)	23.4 (4.3)	0.27 (0.05)	88.8 (16.5)				
2	56.8 (14.3)	20.8 (5.2)	0.22 (0.06)	78.7 (19.8)	52.6 (12.9)	19.3 (4.7)	0.22 (0.05)	72.8 (17.9)				
3	59.2 (8.3)	21.6 (3.0)	0.23 (0.03)	81.9 (11.4)	53.3 (19.3)	19.5 (7.1)	0.22 (0.08)	73.7 (26.7)	0.60 (0.96)	0.23 (0.37)	0.001 (0.002)	0.41 (0.66)
4	79.2 (8.3)	29.0 (3.1)	0.31 (0.03)	110.0 (11.5)	53.7 (9.0)	19.6 (3.3)	0.22 (0.04)	74.2 (12.5)	0.14 (1.25)	0.05 (0.48)	0.000 (0.003)	0.10 (0.86)
5	73.5 (20.0)	26.9 (7.3)	0.29 (0.08)	102.0 (27.7)	58.0 (13.3)	21.2 (4.9)	0.24 (0.06)	80.0 (18.3)	0.27 (0.57)	0.10 (0.22)	0.001 (0.001)	0.19 (0.39)
6	49.9 (11.0)	18.2 (4.0)	0.19 (0.04)	69.0 (15.3)	51.7 (5.6)	18.9 (2.0)	0.22 (0.02)	71.3 (7.7)	1.04 (1.89)	0.40 (0.73)	0.002 (0.004)	0.72 (1.31)
7	68.1 (22.4)	24.9 (8.2)	0.27 (0.09)	94.2 (30.9)	79.9 (10.9)	29.2 (4.0)	0.33 (0.05)	110.0 (15.0)	1.76 (1.99)	0.68 (0.77)	0.004 (0.004)	1.21 (1.37)
8												
9												
10												
11	52.1 (8.5)	19.1 (3.1)	0.20 (0.03)	72.0 (11.8)	54.7 (9.1)	20.0 (3.3)	0.23 (0.04)	75.2 (12.5)	2.96 (2.53)	1.14 (0.98)	0.006 (0.005)	2.04 (1.74)
12	84.1 (20.6)	30.8 (7.5)	0.33 (0.08)	116.0 (28.4)	68.7 (13.4)	25.1 (4.9)	0.29 (0.06)	94.4 (18.4)	4.22 (4.10)	1.63 (1.58)	0.008 (0.008)	2.91 (2.82)
13	97.1 (18.7)	35.5 (6.9)	0.38 (0.07)	134.0 (25.9)	90.0 (10.6)	32.9 (3.9)	0.37 (0.04)	124.0 (14.5)	6.05 (3.39)	2.33 (1.31)	0.012 (0.007)	4.16 (2.33)
14	84.0 (19.6)	30.7 (7.2)	0.33 (0.08)	116.0 (27.0)	87.0 (10.9)	31.8 (4.0)	0.36 (0.05)	120.0 (15.0)	4.18 (4.48)	1.61 (1.73)	0.008 (0.009)	2.88 (3.08)
15	73.0 (19.8)	26.7 (7.3)	0.28 (0.08)	101.0 (27.3)	92.0 (26.6)	33.7 (9.7)	0.38 (0.11)	127.0 (36.6)	1.33 (1.83)	0.51 (0.71)	0.003 (0.004)	0.91 (1.26)
16	61.5 (12.6)	22.5 (4.6)	0.24 (0.05)	84.6 (17.3)	68.0 (8.4)	24.9 (3.1)	0.28 (0.04)	93.6 (11.6)	4.50 (5.93)	1.74 (2.29)	0.009 (0.012)	3.10 (4.08)
17	63.4 (12.5)	23.2 (4.6)	0.25 (0.05)	87.2 (17.2)	70.9 (10.7)	25.9 (3.9)	0.30 (0.04)	97.7 (14.7)	5.67 (4.40)	2.19 (1.70)	0.011 (0.009)	3.90 (3.03)
18												
19	41.7 (8.9)	15.3 (3.3)	0.16 (0.04)	57.3 (12.2)	42.1 (7.1)	15.4 (2.6)	0.18 (0.03)	58.0 (9.8)	3.75 (2.32)	1.45 (0.89)	0.008 (0.005)	2.58 (1.59)
20	35.8 (10.3)	13.1 (3.8)	0.14 (0.04)	49.1 (14.2)	42.4 (7.4)	15.5 (2.7)	0.18 (0.03)	58.5 (10.2)	6.45 (12.60)	2.49 (4.87)	0.013 (0.025)	4.44 (8.69)
21	66.5 (24.6)	24.3 (9.0)	0.26 (0.10)	91.4 (33.9)	74.1 (14.1)	27.1 (5.2)	0.31 (0.06)	102.0 (19.5)	4.82 (3.81)	1.86 (1.47)	0.010 (0.008)	3.32 (2.63)
22	63.7 (20.8)	23.3 (7.6)	0.25 (0.08)	87.6 (28.7)	79.9 (18.9)	29.2 (6.9)	0.33 (0.08)	110.0 (26.0)	2.57 (1.86)	0.99 (0.72)	0.005 (0.004)	1.77 (1.28)
23	49.4 (19.7)	18.1 (7.2)	0.19 (0.08)	68.0 (27.1)	63.2 (13.8)	23.1 (5.1)	0.26 (0.06)	87.2 (19.1)	4.46 (3.16)	1.72 (1.22)	0.009 (0.006)	3.08 (2.18)
24	35.5 (18.9)	13.0 (6.9)	0.14 (0.07)	49.0 (26.1)	61.3 (15.9)	22.4 (5.8)	0.26 (0.07)	84.5 (21.9)	4.78 (4.26)	1.84 (1.64)	0.010 (0.009)	3.30 (2.94)
25	33.9 (14.4)	12.4 (5.3)	0.13 (0.06)	46.8 (19.9)	47.2 (5.3)	17.3 (1.9)	0.20 (0.02)	65.1 (7.3)	3.13 (2.81)	1.21 (1.08)	0.006 (0.006)	2.16 (1.94)
26	35.2 (8.5)	12.9 (3.1)	0.14 (0.03)	48.7 (11.8)	43.0 (7.1)	15.7 (2.6)	0.18 (0.03)	59.3 (9.8)	1.44 (1.32)	0.56 (0.51)	0.003 (0.003)	1.00 (0.91)
27	39.2 (11.4)	14.3 (4.2)	0.15 (0.05)	54.2 (15.8)	41.6 (3.1)	15.2 (1.1)	0.17 (0.01)	57.5 (4.3)	2.34 (2.14)	0.90 (0.83)	0.005 (0.004)	1.62 (1.48)
28	61.9 (22.5)	22.6 (8.2)	0.24 (0.09)	85.5 (31.1)	57.5 (19.1)	21.0 (7.0)	0.24 (0.08)	80.0 (26.6)	1.82 (1.99)	0.70 (0.77)	0.004 (0.004)	1.26 (1.38)
29	63.9 (19.5)	23.4 (7.1)	0.25 (0.08)	88.1 (26.9)	55.6 (29.8)	20.3 (10.9)	0.23 (0.12)	77.9 (41.7)	1.94 (1.79)	0.75 (0.69)	0.004 (0.004)	1.35 (1.25)
30	49.5 (11.6)	18.1 (4.2)	0.19 (0.05)	68.2 (16.0)					1.23 (1.25)	0.47 (0.48)	0.002 (0.003)	0.86 (0.87)
Avg	59.0	21.6	0.23	81.4	62.1	22.7	0.26	85.7	2.98	1.15	0.006	2.05
n	26	26	26	26	25	25	25	25	24	24	24	24
SD	16.5	6.0	0.06	22.7	14.8	5.4	0.06	20.3	1.84	0.71	0.004	1.26
Min	33.9	12.4	0.13	46.8	41.6	15.2	0.17	57.5	0.14	0.05	0.000	0.10
Max	97.1	35.5	0.38	134.0	92.0	33.7	0.38	127.0	6.45	2.49	0.013	4.44

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for October, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	42.8 (14.2)	15.6 (5.2)	0.17 (0.06)	58.9 (19.6)					0.46 (0.76)	0.18 (0.29)	0.001 (0.002)	0.32 (0.53)
2	39.8 (12.1)	14.6 (4.4)	0.16 (0.05)	54.8 (16.6)	4.8 (1.3)	1.8 (0.5)	0.02 (0.01)	6.9 (1.9)	0.91 (0.89)	0.35 (0.34)	0.002 (0.002)	0.64 (0.62)
3	32.6 (9.7)	11.9 (3.6)	0.13 (0.04)	44.8 (13.4)	8.4 (3.1)	3.1 (1.1)	0.04 (0.01)	12.1 (4.5)	0.52 (0.54)	0.20 (0.21)	0.001 (0.001)	0.37 (0.38)
4	38.8 (9.5)	14.2 (3.5)	0.15 (0.04)	53.3 (13.1)	17.3 (2.2)	6.3 (0.8)			0.44 (0.54)	0.17 (0.21)		
5	59.2 (11.4)	21.7 (4.2)	0.23 (0.05)	81.1 (15.6)	27.8 (3.3)	10.2 (1.2)			0.56 (0.52)	0.21 (0.20)		
6	64.0 (10.9)	23.4 (4.0)	0.25 (0.04)	87.5 (14.9)	21.6 (15.2)	7.9 (5.6)			1.55 (1.21)	0.60 (0.47)		
7	56.6 (8.6)	20.7 (3.1)	0.22 (0.03)	77.2 (11.7)	7.6 (5.6)	2.8 (2.1)			1.38 (1.22)	0.53 (0.47)		
8	51.8 (14.7)	18.9 (5.4)	0.20 (0.06)	70.5 (20.1)	0.4 (2.0)	0.2 (0.7)			0.23 (0.47)	0.09 (0.18)		
9	47.4 (13.6)	17.3 (5.0)	0.19 (0.05)	64.4 (18.4)	3.3 (2.5)	1.2 (0.9)			0.60 (0.70)	0.23 (0.27)		
10	45.3 (7.5)	16.6 (2.7)	0.18 (0.03)	61.4 (10.1)	6.8 (5.0)	2.5 (1.8)			0.67 (0.66)	0.26 (0.26)		
11	38.1 (6.4)	13.9 (2.3)	0.15 (0.03)	51.6 (8.7)	6.8 (3.5)	2.5 (1.3)			0.65 (0.79)	0.25 (0.30)		
12	41.9 (15.6)	15.3 (5.7)	0.16 (0.06)	56.7 (21.1)	3.3 (2.4)	1.2 (0.9)			0.96 (1.24)	0.37 (0.48)		
13	50.9 (15.1)	18.6 (5.5)	0.20 (0.06)	68.9 (20.5)	8.0 (4.9)	2.9 (1.8)			1.17 (0.62)	0.45 (0.24)		
14	42.8 (15.5)	15.7 (5.7)	0.17 (0.06)	58.0 (21.1)	3.6 (0.8)	1.3 (0.3)			0.44 (0.56)	0.17 (0.22)		
15	52.0 (15.9)	19.0 (5.8)	0.20 (0.06)	70.5 (21.5)	8.2 (4.3)	3.0 (1.6)			0.49 (0.65)	0.19 (0.25)		
16	39.1 (10.2)	14.3 (3.7)	0.15 (0.04)	53.0 (13.8)	5.7 (2.1)	2.1 (0.8)			0.24 (0.37)	0.09 (0.14)		
17	39.2 (12.4)	14.3 (4.5)	0.15 (0.05)	53.1 (16.8)	8.2 (5.8)	3.0 (2.1)			0.40 (0.30)	0.15 (0.12)		
18	32.9 (9.3)	12.0 (3.4)	0.13 (0.04)	44.6 (12.6)	7.9 (2.5)	2.9 (0.9)			0.59 (1.23)	0.23 (0.48)		
19	42.8 (12.1)	15.7 (4.4)	0.17 (0.05)	58.2 (16.5)	14.5 (5.9)	5.3 (2.2)			0.82 (0.79)	0.31 (0.30)		
20	55.8 (12.9)	20.4 (4.7)	0.22 (0.05)	76.1 (17.5)	14.8 (9.9)	5.4 (3.6)			0.73 (0.63)	0.28 (0.24)		
21	41.6 (9.2)	15.2 (3.4)	0.16 (0.04)	56.8 (12.5)					0.85 (0.93)	0.33 (0.36)		
22	44.3 (8.3)	16.2 (3.1)	0.17 (0.03)	60.6 (11.4)	9.4 (4.1)	3.5 (1.5)			1.53 (1.08)	0.59 (0.42)		
23	40.2 (13.0)	14.7 (4.8)	0.16 (0.05)	55.2 (17.9)	7.4 (2.1)	2.7 (0.8)			0.59 (0.56)	0.23 (0.22)		
24	31.9 (9.0)	11.7 (3.3)	0.13 (0.04)	43.9 (12.4)	10.1 (2.3)	3.7 (0.8)			2.25 (2.87)	0.87 (1.11)		
25	40.4 (10.3)	14.8 (3.8)	0.16 (0.04)	55.6 (14.2)	18.8 (2.8)	6.9 (1.0)	0.08 (0.01)	33.5 (5.1)	2.29 (0.85)	0.89 (0.33)	0.005 (0.002)	1.78 (0.66)
26	54.7 (11.0)	20.0 (4.0)	0.21 (0.04)	75.1 (15.1)	27.4 (3.8)	10.0 (1.4)	0.12 (0.02)	49.2 (6.8)	2.03 (1.52)	0.78 (0.59)	0.004 (0.003)	1.58 (1.18)
27	64.6 (12.6)	23.6 (4.6)	0.25 (0.05)	88.7 (17.3)	20.4 (10.8)	7.5 (4.0)	0.09 (0.05)	36.8 (19.4)	0.83 (2.08)	0.32 (0.80)	0.002 (0.004)	0.65 (1.62)
28	62.6 (10.7)	22.9 (3.9)	0.25 (0.04)	85.8 (14.7)	13.1 (1.8)	4.8 (0.7)	0.06 (0.01)	23.9 (3.4)	1.18 (4.92)	0.45 (1.90)	0.002 (0.010)	0.92 (3.85)
29	49.4 (15.2)	18.1 (5.6)	0.19 (0.06)	67.6 (20.8)	19.9 (3.2)	7.3 (1.2)	0.09 (0.01)	36.6 (5.9)	2.24 (7.24)	0.86 (2.79)	0.005 (0.015)	1.76 (5.67)
30	43.3 (15.5)	15.8 (5.7)	0.17 (0.06)	59.1 (21.2)	24.9 (5.3)	9.1 (1.9)	0.11 (0.02)	46.2 (9.8)	7.68 (16.80)	2.96 (6.48)	0.016 (0.035)	6.04 (13.20)
31	59.0 (21.7)	21.6 (7.9)	0.23 (0.09)	80.4 (29.5)	30.5 (9.0)	11.2 (3.3)	0.13 (0.04)	57.1 (16.9)	5.04 (3.20)	1.94 (1.23)	0.010 (0.007)	3.97 (2.52)
Avg	46.6	17.1	0.18	63.7	12.4	4.6	0.08	33.6	1.30	0.50	0.005	1.80
n	31	31	31	31	29	29	9	9	31	31	10	10
SD	9.2	3.4	0.04	12.6	8.2	3.0	0.04	15.8	1.49	0.57	0.005	1.74
Min	31.9	11.7	0.13	43.9	0.4	0.2	0.02	6.9	0.23	0.09	0.001	0.32
Max	64.6	23.6	0.25	88.7	30.5	11.2	0.13	57.1	7.68	2.96	0.016	6.04

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for November, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	52.5 (13.1)	19.2 (4.8)	0.21 (0.05)	71.5 (17.8)	24.8 (4.5)	9.1 (1.7)	0.11 (0.02)	46.1 (8.2)	2.48 (3.22)	0.96 (1.24)	0.005 (0.007)	1.95 (2.53)
2	72.4 (13.9)	26.5 (5.1)	0.28 (0.05)	98.6 (19.0)	38.5 (10.1)	14.1 (3.7)	0.17 (0.04)	70.4 (18.3)	8.37 (8.49)	3.23 (3.27)	0.017 (0.017)	6.53 (6.62)
3	96.7 (20.3)	35.4 (7.4)	0.38 (0.08)	132.0 (27.7)	62.6 (22.9)	22.9 (8.4)	0.27 (0.10)	112.0 (41.1)	3.87 (2.47)	1.49 (0.95)	0.008 (0.005)	3.00 (1.91)
4	75.9 (14.2)	27.8 (5.2)	0.30 (0.06)	104.0 (19.4)	45.1 (10.9)	16.5 (4.0)	0.19 (0.05)	79.5 (19.4)	4.31 (4.21)	1.66 (1.63)	0.009 (0.009)	3.32 (3.24)
5												
6	57.7 (9.8)	21.1 (3.6)	0.23 (0.04)	78.8 (13.4)	37.5 (10.7)	13.7 (3.9)	0.15 (0.04)	63.6 (18.1)	2.10 (1.68)	0.81 (0.65)	0.004 (0.003)	1.59 (1.27)
7	43.7 (7.8)	16.0 (2.9)	0.17 (0.03)	59.8 (10.7)	24.6 (11.8)	9.0 (4.3)	0.10 (0.05)	41.1 (19.9)	0.92 (0.70)	0.35 (0.27)	0.002 (0.001)	0.69 (0.53)
8	41.5 (5.8)	15.2 (2.1)	0.16 (0.02)	56.7 (7.9)	19.9 (2.7)	7.3 (1.0)	0.08 (0.01)	32.9 (4.3)	1.02 (3.44)	0.39 (1.33)	0.002 (0.007)	0.76 (2.57)
9	60.7 (8.2)	22.2 (3.0)	0.24 (0.03)	83.1 (11.2)	31.4 (3.2)	11.5 (1.2)	0.13 (0.01)	51.6 (5.2)	2.13 (9.47)	0.82 (3.65)	0.004 (0.019)	1.59 (7.07)
10	73.3 (10.6)	26.8 (3.9)	0.29 (0.04)	100.0 (14.4)	50.9 (6.0)	18.6 (2.2)	0.20 (0.02)	83.2 (9.7)	8.65 (29.10)	3.34 (11.20)	0.017 (0.058)	6.45 (21.70)
11	80.6 (9.6)	29.5 (3.5)	0.32 (0.04)	111.0 (13.1)	44.5 (19.6)	16.3 (7.2)	0.18 (0.08)	72.5 (31.9)	6.79 (20.00)	2.62 (7.73)	0.013 (0.040)	5.05 (14.90)
12	78.7 (11.3)	28.8 (4.1)	0.31 (0.04)	108.0 (15.4)	29.0 (4.5)	10.6 (1.6)	0.12 (0.02)	46.9 (7.2)	4.31 (5.21)	1.66 (2.01)	0.009 (0.010)	3.20 (3.87)
13	75.6 (18.0)	27.7 (6.6)	0.30 (0.07)	104.0 (24.6)	37.9 (8.5)	13.8 (3.1)	0.15 (0.03)	61.0 (13.8)	3.63 (15.70)	1.40 (6.04)	0.007 (0.031)	2.69 (11.60)
14	85.6 (18.1)	31.3 (6.6)	0.34 (0.07)	117.0 (24.9)	34.4 (17.6)	12.6 (6.5)	0.14 (0.07)	55.2 (28.4)	2.91 (2.60)	1.12 (1.00)	0.006 (0.005)	2.15 (1.93)
15	57.7 (10.2)	21.1 (3.8)	0.23 (0.04)	79.2 (14.1)	28.7 (3.4)	10.5 (1.2)	0.11 (0.01)	45.8 (5.4)	1.55 (2.74)	0.60 (1.06)	0.003 (0.005)	1.15 (2.03)
16	67.2 (10.9)	24.6 (4.0)	0.26 (0.04)	92.4 (15.0)	40.4 (3.8)	14.8 (1.4)	0.16 (0.02)	64.1 (5.9)	2.20 (1.75)	0.85 (0.67)	0.004 (0.003)	1.62 (1.29)
17	85.5 (12.7)	31.3 (4.6)	0.34 (0.05)	117.0 (17.4)	63.0 (6.9)	23.0 (2.5)	0.25 (0.03)	99.6 (10.8)	1.92 (2.26)	0.74 (0.87)	0.004 (0.004)	1.41 (1.66)
18	98.1 (10.5)	35.9 (3.9)	0.39 (0.04)	135.0 (14.5)	54.8 (28.0)	20.0 (10.2)	0.22 (0.11)	86.2 (44.1)				
19												
20	87.6 (18.7)	32.0 (6.8)	0.34 (0.07)	120.0 (25.7)	46.0 (5.5)	16.8 (2.0)	0.18 (0.02)	71.6 (8.4)				
21	87.1 (11.1)	31.8 (4.1)	0.34 (0.04)	120.0 (15.3)	63.7 (9.9)	23.3 (3.6)	0.25 (0.04)	98.6 (15.3)	2.89 (3.19)	1.11 (1.23)	0.006 (0.006)	2.10 (2.32)
22	102.0 (15.8)	37.3 (5.8)	0.40 (0.06)	140.0 (21.8)	77.0 (16.8)	28.2 (6.1)	0.31 (0.07)	119.0 (26.0)	6.37 (6.39)	2.46 (2.46)	0.013 (0.013)	4.62 (4.63)
23	116.0 (17.4)	42.4 (6.4)	0.46 (0.07)	159.0 (23.9)	75.5 (14.5)	27.6 (5.3)	0.30 (0.06)	116.0 (22.1)	11.20 (6.82)	4.33 (2.63)	0.022 (0.014)	8.13 (4.94)
24	147.0 (34.6)	53.8 (12.7)	0.58 (0.14)	202.0 (47.4)	100.0 (27.8)	36.6 (10.2)	0.40 (0.11)	152.0 (42.5)	12.00 (18.60)	4.62 (7.18)	0.024 (0.037)	8.64 (13.40)
25	132.0 (21.9)	48.2 (8.0)	0.52 (0.09)	180.0 (30.0)	86.5 (6.1)	31.6 (2.3)	0.35 (0.03)	131.0 (9.3)	4.72 (4.76)	1.82 (1.83)	0.009 (0.009)	3.39 (3.42)
26	122.0 (26.2)	44.7 (9.6)	0.48 (0.10)	167.0 (35.9)	80.9 (14.2)	29.6 (5.2)	0.32 (0.06)	122.0 (21.5)	2.88 (3.10)	1.11 (1.20)	0.006 (0.006)	2.07 (2.22)
27	145.0 (33.6)	53.2 (12.3)	0.57 (0.13)	199.0 (45.8)	75.4 (11.3)	27.6 (4.1)	0.30 (0.05)	113.0 (16.9)	4.81 (4.31)	1.86 (1.66)	0.010 (0.009)	3.43 (3.07)
28	126.0 (22.8)	46.0 (8.3)	0.49 (0.09)	172.0 (31.1)	71.6 (9.4)	26.2 (3.5)	0.29 (0.04)	106.0 (14.2)	3.80 (3.01)	1.46 (1.16)	0.008 (0.006)	2.70 (2.14)
29	123.0 (23.4)	44.8 (8.5)	0.48 (0.09)	167.0 (31.8)	61.3 (8.1)	22.4 (3.0)	0.25 (0.03)	90.5 (12.0)	5.82 (6.60)	2.24 (2.54)	0.012 (0.013)	4.12 (4.67)
30	135.0 (23.6)	49.3 (8.6)	0.53 (0.09)	183.0 (32.0)	86.2 (5.6)	31.5 (2.0)	0.34 (0.02)	126.0 (8.1)	3.59 (5.41)	1.38 (2.09)	0.007 (0.011)	2.53 (3.81)
Avg	90.2	33.0	0.35	123.0	53.3	19.5	0.21	84.2	4.43	1.71	0.009	3.27
n	28	28	28	28	28	28	28	28	26	26	26	26
SD	29.9	10.9	0.12	40.8	21.7	8.0	0.09	31.3	2.88	1.11	0.006	2.11
Min	41.5	15.2	0.16	56.7	19.9	7.3	0.08	32.9	0.92	0.35	0.002	0.69
Max	147.0	53.8	0.58	202.0	100.0	36.6	0.40	152.0	12.00	4.62	0.024	8.64

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for December, 2008.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	145.0 (31.5)	53.0 (11.5)	0.57 (0.12)	197.0 (42.9)	100.0 (20.9)	36.6 (7.6)	0.40 (0.08)	146.0 (30.6)	4.34 (3.04)	1.67 (1.17)	0.009 (0.006)	3.05 (2.14)
2	135.0 (25.3)	49.4 (9.3)	0.53 (0.10)	183.0 (34.4)	88.5 (17.6)	32.4 (6.4)	0.35 (0.07)	128.0 (25.5)	3.94 (2.60)	1.52 (1.00)	0.008 (0.005)	2.76 (1.82)
3	111.0 (22.8)	40.5 (8.3)	0.44 (0.09)	150.0 (30.8)	86.0 (14.9)	31.5 (5.5)	0.34 (0.06)	124.0 (21.4)	4.84 (2.18)	1.87 (0.84)	0.010 (0.004)	3.37 (1.52)
4	99.8 (20.2)	36.5 (7.4)	0.39 (0.08)	135.0 (27.2)					3.98 (3.41)	1.54 (1.31)	0.008 (0.007)	2.76 (2.36)
5	108.0 (20.2)	39.5 (7.4)	0.42 (0.08)	145.0 (27.3)	74.3 (21.6)	27.2 (7.9)	0.30 (0.09)	105.0 (30.8)	3.97 (2.34)	1.53 (0.90)	0.008 (0.005)	2.74 (1.61)
6	121.0 (30.4)	44.4 (11.1)	0.48 (0.12)	163.0 (41.0)	75.0 (13.4)	27.4 (4.9)	0.30 (0.05)	106.0 (18.9)	4.98 (3.25)	1.92 (1.25)	0.010 (0.006)	3.43 (2.23)
7	120.0 (40.9)	44.1 (15.0)	0.47 (0.16)	162.0 (55.1)	77.0 (7.4)	28.2 (2.7)	0.31 (0.03)	108.0 (10.3)	4.01 (3.33)	1.54 (1.29)	0.008 (0.007)	2.75 (2.29)
8												
9												
10												
11	105.0 (32.2)	38.3 (11.8)	0.41 (0.13)	141.0 (43.3)	78.0 (11.5)	28.5 (4.2)	0.31 (0.05)	107.0 (15.7)	7.68 (16.10)	2.96 (6.21)	0.015 (0.032)	5.22 (11.00)
12	105.0 (25.6)	38.6 (9.4)	0.42 (0.10)	142.0 (34.5)	80.5 (11.6)	29.5 (4.2)	0.32 (0.05)	110.0 (15.9)	4.77 (4.70)	1.84 (1.81)	0.009 (0.009)	3.23 (3.19)
13	119.0 (25.8)	43.5 (9.5)	0.47 (0.10)	160.0 (34.8)	91.6 (13.9)	33.5 (5.1)	0.37 (0.06)	125.0 (19.0)	8.90 (6.17)	3.43 (2.38)	0.018 (0.012)	6.03 (4.18)
14	194.0 (47.1)	70.8 (17.2)	0.76 (0.19)	260.0 (63.4)	138.0 (27.6)	50.3 (10.1)	0.55 (0.11)	188.0 (37.7)	9.94 (2.74)	3.83 (1.06)	0.020 (0.005)	6.73 (1.85)
15	178.0 (43.5)	65.0 (15.9)	0.70 (0.17)	239.0 (58.5)	104.0 (40.9)	38.2 (15.0)	0.42 (0.16)	142.0 (55.8)				
16	229.0 (32.0)	83.6 (11.7)	0.90 (0.13)	308.0 (43.0)	124.0 (22.6)	45.5 (8.3)	0.50 (0.09)	170.0 (30.9)				
17	237.0 (70.4)	86.9 (25.8)	0.94 (0.28)	320.0 (94.8)	200.0 (23.3)	73.2 (8.5)	0.80 (0.09)	273.0 (31.8)				
18	67.1 (5.1)	24.5 (1.9)	0.26 (0.02)	90.3 (6.8)	156.0 (70.6)	57.1 (25.8)	0.62 (0.28)	213.0 (96.4)				
19	92.4 (19.3)	33.8 (7.1)	0.36 (0.08)	124.0 (26.0)	69.4 (15.2)	25.4 (5.6)	0.28 (0.06)	94.7 (20.7)	33.90 (98.20)	13.10 (37.90)	0.067 (0.195)	23.00 (66.50)
20	119.0 (15.7)	43.7 (5.8)	0.47 (0.06)	161.0 (21.2)	74.6 (13.4)	27.3 (4.9)	0.30 (0.05)	102.0 (18.3)	4.46 (5.21)	1.72 (2.01)	0.009 (0.010)	3.02 (3.54)
21	127.0 (35.6)	46.4 (13.0)	0.50 (0.14)	171.0 (48.0)	104.0 (18.1)	38.0 (6.6)	0.42 (0.07)	142.0 (24.8)	4.17 (2.70)	1.61 (1.04)	0.008 (0.005)	2.83 (1.84)
22	216.0 (35.2)	78.9 (12.9)	0.85 (0.14)	291.0 (47.4)	171.0 (18.8)	62.5 (6.9)	0.68 (0.08)	234.0 (25.7)				
23												
24												
25	194.0 (44.3)	71.0 (16.2)	0.77 (0.18)	262.0 (59.7)	203.0 (24.7)	74.2 (9.1)	0.81 (0.10)	279.0 (34.0)	5.67 (4.61)	2.19 (1.78)	0.011 (0.009)	3.86 (3.14)
26	194.0 (36.4)	71.1 (13.3)	0.77 (0.14)	262.0 (49.1)	269.0 (68.8)	98.2 (25.2)	1.07 (0.28)	371.0 (95.1)	13.80 (15.60)	5.31 (6.01)	0.027 (0.031)	9.39 (10.60)
27	263.0 (84.0)	96.3 (30.7)	1.04 (0.33)	355.0 (113.0)	357.0 (86.0)	131.0 (31.4)	1.43 (0.34)	493.0 (119.0)	27.10 (15.90)	10.50 (6.12)	0.054 (0.032)	18.50 (10.80)
28	165.0 (32.0)	60.4 (11.7)	0.65 (0.13)	222.0 (43.0)	353.0 (47.9)	129.0 (17.5)	1.41 (0.19)	486.0 (66.0)	8.92 (9.33)	3.44 (3.60)	0.018 (0.019)	6.07 (6.36)
29	234.0 (28.0)	85.5 (10.2)	0.92 (0.11)	314.0 (37.5)	267.0 (84.6)	97.5 (31.0)	1.07 (0.34)	367.0 (117.0)	12.40 (7.02)	4.78 (2.71)	0.025 (0.014)	8.42 (4.78)
30	226.0 (45.4)	82.7 (16.6)	0.89 (0.18)	304.0 (61.0)	171.0 (22.8)	62.5 (8.3)	0.68 (0.09)	234.0 (31.3)	18.60 (28.30)	7.17 (10.90)	0.037 (0.056)	12.60 (19.20)
31	176.0 (24.6)	64.5 (9.0)	0.70 (0.10)	237.0 (33.1)	155.0 (20.3)	56.8 (7.4)	0.62 (0.08)	212.0 (27.9)	4.41 (6.10)	1.70 (2.35)	0.009 (0.012)	2.98 (4.13)
Avg	157.0	57.4	0.62	211.0	147.0	53.7	0.59	202.0	9.27	3.58	0.018	6.32
n	26	26	26	26	25	25	25	25	21	21	21	21
SD	53.5	19.6	0.21	72.0	83.8	30.6	0.34	115.0	7.95	3.06	0.016	5.38
Min	67.1	24.5	0.26	90.3	69.4	25.4	0.28	94.7	3.94	1.52	0.008	2.74
Max	263.0	96.3	1.04	355.0	357.0	131.0	1.43	493.0	33.90	13.10	0.067	23.00

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for January, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	182.0 (35.6)	66.6 (13.0)	0.72 (0.14)	244.0 (47.7)	175.0 (21.3)	63.8 (7.8)	0.70 (0.09)	238.0 (29.1)	32.30 (26.30)	12.40 (10.20)	0.064 (0.052)	21.80 (17.80)
2	183.0 (43.5)	66.9 (15.9)	0.72 (0.17)	245.0 (58.3)	162.0 (29.4)	59.1 (10.8)	0.65 (0.12)	220.0 (40.2)	8.55 (7.45)	3.30 (2.87)	0.017 (0.015)	5.77 (5.03)
3	149.0 (16.3)	54.5 (5.9)	0.59 (0.06)	199.0 (21.7)	184.0 (29.5)	67.4 (10.8)	0.74 (0.12)	252.0 (40.4)	8.79 (8.43)	3.39 (3.25)	0.018 (0.017)	5.95 (5.71)
4	179.0 (21.9)	65.4 (8.0)	0.71 (0.09)	239.0 (29.3)	213.0 (33.8)	77.8 (12.4)	0.85 (0.14)	294.0 (46.9)	15.30 (19.50)	5.89 (7.53)	0.030 (0.039)	10.40 (13.30)
5	182.0 (26.7)	66.5 (9.8)	0.72 (0.11)	243.0 (35.7)	186.0 (23.0)	67.9 (8.4)	0.74 (0.09)	259.0 (31.7)	9.54 (6.69)	3.68 (2.58)	0.019 (0.013)	6.52 (4.58)
6												
7	118.0 (43.0)	43.2 (15.7)	0.47 (0.17)	158.0 (57.5)	163.0 (41.8)	59.7 (15.3)	0.65 (0.17)	233.0 (59.4)				
8	132.0 (21.9)	48.3 (8.0)	0.52 (0.09)	177.0 (29.3)	177.0 (20.9)	64.6 (7.6)	0.71 (0.08)	255.0 (29.6)				
9	128.0 (14.0)	46.9 (5.1)	0.51 (0.06)	172.0 (18.7)	174.0 (21.5)	63.5 (7.9)	0.69 (0.09)	253.0 (30.8)				
10	89.1 (41.9)	32.6 (15.3)	0.35 (0.17)	119.0 (56.2)	136.0 (43.8)	49.8 (16.0)	0.54 (0.18)	198.0 (64.4)				
11	141.0 (23.3)	51.7 (8.5)	0.56 (0.09)	190.0 (31.3)	179.0 (30.0)	65.4 (11.0)	0.72 (0.12)	257.0 (42.8)				
12	138.0 (33.0)	50.4 (12.1)	0.55 (0.13)	185.0 (44.2)	196.0 (33.7)	71.9 (12.3)	0.79 (0.14)	279.0 (48.4)				
13	110.0 (39.0)	40.1 (14.3)	0.43 (0.16)	147.0 (52.3)	217.0 (52.5)	79.4 (19.2)	0.87 (0.21)	305.0 (74.6)				
14	70.5 (40.3)	25.8 (14.7)	0.28 (0.16)	94.6 (54.0)	228.0 (42.5)	83.5 (15.5)	0.91 (0.17)	316.0 (59.3)				
15	78.1 (16.7)	28.6 (6.1)	0.31 (0.07)	105.0 (22.4)	143.0 (99.8)	52.5 (36.5)	0.57 (0.40)	197.0 (137.0)				
16	92.3 (14.0)	33.8 (5.1)	0.37 (0.06)	124.0 (18.8)	20.7 (10.2)	7.6 (3.7)	0.08 (0.04)	28.0 (13.7)				
17	113.0 (21.3)	41.3 (7.8)	0.45 (0.09)	153.0 (29.7)	193.0 (44.6)	70.5 (16.3)	0.77 (0.18)	259.0 (59.9)				
18	128.0 (19.5)	46.8 (7.2)	0.51 (0.08)	178.0 (27.1)	215.0 (10.0)	78.8 (3.7)	0.86 (0.04)	289.0 (13.4)				
19	113.0 (31.7)	41.3 (11.6)	0.45 (0.13)	160.0 (44.0)	228.0 (52.2)	83.5 (19.1)	0.91 (0.21)	306.0 (70.2)				
20	100.0 (12.4)	36.6 (4.5)	0.40 (0.05)	146.0 (17.8)	189.0 (44.0)	69.1 (16.1)	0.76 (0.18)	253.0 (59.0)				
21	104.0 (15.2)	38.2 (5.6)	0.41 (0.06)	156.0 (22.3)	142.0 (34.6)	51.8 (12.6)	0.57 (0.14)	189.0 (46.3)				
22	101.0 (12.8)	36.9 (4.7)	0.40 (0.05)	154.0 (19.1)	113.0 (20.7)	41.3 (7.6)	0.45 (0.08)	151.0 (27.7)				
23	61.6 (26.8)	22.5 (9.8)	0.24 (0.11)	96.6 (41.5)	131.0 (30.8)	47.8 (11.2)	0.52 (0.12)	175.0 (41.1)				
24	44.8 (4.4)	16.4 (1.6)	0.18 (0.02)	71.5 (7.0)	116.0 (23.7)	42.4 (8.7)	0.47 (0.10)	155.0 (31.7)				
25	54.4 (5.1)	19.9 (1.9)	0.22 (0.02)	86.7 (8.1)	151.0 (16.8)	55.1 (6.1)	0.60 (0.07)	201.0 (22.4)				
26	43.4 (16.3)	15.9 (6.0)	0.17 (0.07)	69.2 (25.9)	175.0 (14.7)	64.1 (5.4)	0.70 (0.06)	234.0 (19.6)				
27	31.7 (2.5)	11.6 (0.9)	0.13 (0.01)	50.5 (4.0)	139.0 (43.2)	50.7 (15.8)	0.56 (0.17)	186.0 (57.7)				
28	34.6 (4.4)	12.7 (1.6)	0.14 (0.02)	55.2 (7.0)	103.0 (29.2)	37.8 (10.7)	0.42 (0.12)	138.0 (39.0)				
29					111.0 (16.5)	40.5 (6.1)	0.44 (0.07)	148.0 (22.1)				
30	23.2 (4.1)	8.5 (1.5)	0.09 (0.02)	37.0 (6.5)	128.0 (22.2)	47.0 (8.1)	0.52 (0.09)	172.0 (29.8)				
31	30.1 (4.2)	11.0 (1.6)	0.12 (0.02)	48.0 (6.7)								
Avg	102.0	37.3	0.40	141.0	162.0	59.1	0.65	222.0	14.90	5.74	0.030	10.10
n	29	29	29	29	29	29	29	29	5	5	5	5
SD	47.8	17.5	0.19	61.1	44.3	16.2	0.18	62.3	9.04	3.49	0.018	6.11
Min	23.2	8.5	0.09	37.0	20.7	7.6	0.08	28.0	8.55	3.30	0.017	5.77
Max	183.0	66.9	0.72	245.0	228.0	83.5	0.91	316.0	32.30	12.40	0.064	21.80

Table F13. Daily means (SD) of ammonia emissions at site IN2B for February, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	30.3 (4.0)	11.1 (1.5)	0.12 (0.02)	48.5 (6.4)	174.0 (17.7)	63.7 (6.5)	0.70 (0.07)	234.0 (23.9)				
2	27.6 (11.4)	10.1 (4.2)	0.11 (0.05)	44.3 (18.3)								
3												
4	20.1 (3.4)	7.4 (1.3)	0.08 (0.01)	32.6 (5.6)								
5	28.4 (6.9)	10.4 (2.5)	0.11 (0.03)	46.0 (11.1)								
6	22.6 (6.8)	8.3 (2.5)	0.09 (0.03)	36.8 (11.0)								
7	15.4 (6.6)	5.6 (2.4)	0.06 (0.03)	25.2 (10.8)	145.0 (17.9)	53.2 (6.6)	0.58 (0.07)	199.0 (24.4)				
8	22.0 (2.8)	8.0 (1.0)	0.09 (0.01)	35.9 (4.5)	153.0 (10.4)	55.8 (3.8)	0.61 (0.04)	209.0 (14.3)				
9	33.2 (12.2)	12.2 (4.5)	0.13 (0.05)	54.5 (19.9)	174.0 (27.3)	63.7 (10.0)	0.70 (0.11)	238.0 (37.3)				
10	23.9 (10.0)	8.8 (3.6)	0.10 (0.04)	39.3 (16.4)	139.0 (40.9)	50.7 (15.0)	0.56 (0.16)	190.0 (56.0)				
11	19.6 (9.2)	7.2 (3.4)	0.08 (0.04)	32.3 (15.2)	95.8 (22.7)	35.0 (8.3)	0.38 (0.09)	132.0 (31.2)				
12												
13					77.7 (9.6)	28.4 (3.5)	0.31 (0.04)	107.0 (13.2)	5.93 (9.69)	2.29 (3.74)	0.012 (0.019)	4.45 (7.29)
14	22.6 (3.0)	8.3 (1.1)	0.09 (0.01)	37.2 (4.8)	80.9 (14.8)	29.6 (5.4)	0.33 (0.06)	112.0 (20.5)	3.11 (4.18)	1.20 (1.61)	0.006 (0.008)	2.34 (3.14)
15	29.2 (3.0)	10.7 (1.1)	0.12 (0.01)	47.7 (4.9)	94.7 (15.2)	34.6 (5.6)	0.38 (0.06)	130.0 (20.9)	7.17 (9.19)	2.77 (3.54)	0.014 (0.018)	5.36 (6.87)
16	28.7 (8.8)	10.5 (3.2)	0.12 (0.04)	46.4 (14.3)	97.7 (24.5)	35.7 (9.0)	0.39 (0.10)	134.0 (33.8)	6.87 (8.68)	2.65 (3.35)	0.014 (0.017)	5.10 (6.44)
17	25.3 (5.4)	9.3 (2.0)	0.10 (0.02)	40.7 (8.7)	65.9 (9.9)	24.1 (3.6)	0.26 (0.04)	90.6 (13.6)	17.70 (9.56)	6.82 (3.69)	0.035 (0.019)	13.10 (7.08)
18	34.7 (9.7)	12.7 (3.5)	0.14 (0.04)	55.2 (15.3)	85.2 (19.3)	31.1 (7.1)	0.34 (0.08)	117.0 (26.5)	11.90 (9.96)	4.60 (3.84)	0.024 (0.020)	8.80 (7.35)
19	29.6 (10.1)	10.8 (3.7)	0.12 (0.04)	46.6 (15.8)	55.2 (7.1)	20.2 (2.6)	0.22 (0.03)	75.8 (9.7)	4.42 (7.03)	1.71 (2.71)	0.009 (0.014)	3.24 (5.16)
20	45.8 (9.1)	16.7 (3.3)	0.18 (0.04)	71.6 (14.4)	78.0 (5.3)	28.5 (2.0)	0.31 (0.02)	107.0 (7.3)	7.06 (9.18)	2.72 (3.54)	0.014 (0.018)	5.15 (6.69)
21	46.5 (9.2)	17.0 (3.4)	0.19 (0.04)	72.2 (14.4)	83.8 (21.0)	30.6 (7.7)	0.34 (0.08)	115.0 (28.8)	6.57 (5.35)	2.53 (2.06)	0.013 (0.011)	4.79 (3.90)
22									2.96 (2.50)	1.14 (0.96)	0.006 (0.005)	2.15 (1.81)
23	79.0 (18.8)	28.9 (6.9)	0.32 (0.08)	122.0 (29.1)	124.0 (14.2)	45.3 (5.2)	0.50 (0.06)	170.0 (19.5)	4.13 (5.63)	1.59 (2.17)	0.008 (0.011)	3.00 (4.08)
24	82.6 (17.2)	30.2 (6.3)	0.33 (0.07)	127.0 (26.4)	120.0 (10.7)	43.9 (3.9)	0.48 (0.04)	165.0 (14.7)	22.30 (13.70)	8.60 (5.28)	0.045 (0.027)	16.10 (9.90)
25												
26	73.4 (8.9)	26.8 (3.2)	0.29 (0.04)	111.0 (13.4)	114.0 (17.4)	41.7 (6.4)	0.46 (0.07)	157.0 (23.9)	18.30 (12.00)	7.08 (4.64)	0.037 (0.024)	13.20 (8.67)
27	60.0 (19.6)	22.0 (7.2)	0.24 (0.08)	90.6 (29.6)	98.6 (27.2)	36.1 (9.9)	0.40 (0.11)	136.0 (37.3)	6.51 (7.74)	2.51 (2.99)	0.013 (0.016)	4.68 (5.57)
28	64.5 (11.9)	23.6 (4.4)	0.26 (0.05)	96.8 (18.0)	84.1 (19.8)	30.8 (7.2)	0.34 (0.08)	116.0 (27.2)	8.30 (6.67)	3.20 (2.57)	0.017 (0.013)	5.96 (4.78)
Avg	37.6	13.8	0.15	59.1	107.0	39.1	0.43	147.0	8.89	3.43	0.018	6.50
n	23	23	23	23	20	20	20	20	15	15	15	15
SD	19.8	7.3	0.08	29.3	33.7	12.3	0.14	45.6	5.76	2.22	0.012	4.18
Min	15.4	5.6	0.06	25.2	55.2	20.2	0.22	75.8	2.96	1.14	0.006	2.15
Max	82.6	30.2	0.33	127.0	174.0	63.7	0.70	238.0	22.30	8.60	0.045	16.10

Table F13. Daily means (SD) of ammonia emissions at site IN2B for March, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	83.1 (11.9)	30.4 (4.3)	0.33 (0.05)	124.0 (17.6)	97.5 (10.9)	35.7 (4.0)	0.39 (0.04)	135.0 (15.2)	10.20 (7.99)	3.95 (3.08)	0.021 (0.016)	7.33 (5.72)
2	99.1 (24.2)	36.3 (8.8)	0.40 (0.10)	146.0 (35.9)	108.0 (21.9)	39.3 (8.0)	0.43 (0.09)	149.0 (30.2)	10.30 (8.15)	3.99 (3.14)	0.021 (0.016)	7.39 (5.82)
3	96.9 (30.5)	35.4 (11.1)	0.39 (0.12)	142.0 (44.9)	95.7 (12.3)	35.0 (4.5)	0.39 (0.05)	133.0 (17.0)	13.20 (12.40)	5.09 (4.78)	0.027 (0.025)	9.41 (8.83)
4	86.9 (23.4)	31.8 (8.6)	0.35 (0.09)	126.0 (34.2)	94.3 (13.0)	34.5 (4.7)	0.38 (0.05)	131.0 (18.0)	22.70 (18.50)	8.75 (7.14)	0.046 (0.037)	16.10 (13.20)
5	113.0 (17.2)	41.4 (6.3)	0.46 (0.07)	163.0 (24.5)	86.1 (15.0)	31.5 (5.5)	0.35 (0.06)	120.0 (21.0)	18.50 (17.50)	7.13 (6.75)	0.037 (0.035)	13.10 (12.40)
6	119.0 (31.2)	43.4 (11.4)	0.48 (0.13)	170.0 (44.9)	99.1 (12.9)	36.3 (4.7)	0.40 (0.05)	139.0 (18.0)	12.30 (6.05)	4.76 (2.33)	0.025 (0.012)	8.74 (4.28)
7	98.5 (20.3)	36.0 (7.4)	0.40 (0.08)	140.0 (28.8)	93.2 (15.1)	34.1 (5.5)	0.37 (0.06)	131.0 (21.2)	12.00 (11.00)	4.61 (4.23)	0.024 (0.022)	8.45 (7.74)
8	106.0 (21.0)	38.7 (7.7)	0.43 (0.08)	150.0 (29.6)	102.0 (23.0)	37.2 (8.4)	0.41 (0.09)	143.0 (32.3)	8.43 (7.54)	3.25 (2.91)	0.017 (0.015)	5.93 (5.31)
9	125.0 (18.6)	45.6 (6.8)	0.50 (0.08)	175.0 (26.3)	102.0 (19.6)	37.2 (7.2)	0.41 (0.08)	143.0 (27.5)	6.41 (8.02)	2.47 (3.09)	0.013 (0.016)	4.50 (5.63)
10	127.0 (13.2)	46.6 (4.8)	0.51 (0.05)	178.0 (18.6)	128.0 (22.0)	46.7 (8.0)	0.51 (0.09)	180.0 (31.0)	10.70 (11.30)	4.11 (4.36)	0.021 (0.023)	7.48 (7.92)
11	85.5 (11.4)	31.3 (4.2)	0.34 (0.05)	119.0 (15.8)	74.0 (9.8)	27.1 (3.6)	0.30 (0.04)	104.0 (13.8)	5.88 (4.99)	2.27 (1.92)	0.012 (0.010)	4.11 (3.49)
12	90.0 (38.7)	32.9 (14.2)	0.36 (0.16)	124.0 (53.6)	74.2 (15.3)	27.1 (5.6)	0.30 (0.06)	105.0 (21.6)	6.14 (6.83)	2.37 (2.64)	0.012 (0.014)	4.28 (4.76)
13	72.5 (13.5)	26.5 (4.9)	0.29 (0.05)	99.5 (18.5)	78.6 (11.3)	28.7 (4.2)	0.32 (0.05)	111.0 (16.0)	10.80 (10.70)	4.15 (4.14)	0.022 (0.022)	7.48 (7.46)
14	90.3 (9.8)	33.0 (3.6)	0.36 (0.04)	124.0 (13.4)	96.3 (9.9)	35.2 (3.6)	0.39 (0.04)	136.0 (13.9)	12.50 (14.60)	4.81 (5.63)	0.025 (0.029)	8.68 (10.10)
15	96.0 (24.5)	35.1 (9.0)	0.39 (0.10)	132.0 (33.6)	91.0 (13.7)	33.3 (5.0)	0.37 (0.06)	128.0 (19.3)	12.10 (8.61)	4.65 (3.32)	0.024 (0.017)	8.40 (5.99)
16	117.0 (23.4)	42.9 (8.6)	0.47 (0.09)	161.0 (32.1)	119.0 (16.2)	43.7 (5.9)	0.48 (0.07)	169.0 (22.9)	14.50 (17.60)	5.59 (6.80)	0.029 (0.036)	10.10 (12.30)
17	114.0 (24.8)	41.6 (9.1)	0.46 (0.10)	156.0 (34.1)	113.0 (15.7)	41.2 (5.7)	0.45 (0.06)	159.0 (22.1)	20.50 (13.50)	7.89 (5.20)	0.041 (0.027)	14.30 (9.39)
18	83.8 (20.3)	30.6 (7.4)	0.34 (0.08)	115.0 (27.9)								
19												
20									2.26 (2.30)	0.87 (0.89)	0.005 (0.005)	1.58 (1.61)
21	56.7 (10.1)	20.7 (3.7)	0.23 (0.04)	78.1 (13.9)	80.9 (8.4)	29.6 (3.1)	0.33 (0.03)	114.0 (11.8)	6.03 (6.18)	2.33 (2.38)	0.012 (0.012)	4.21 (4.31)
22	64.6 (14.2)	23.6 (5.2)	0.26 (0.06)	88.7 (19.4)	109.0 (13.7)	39.7 (5.0)	0.44 (0.06)	154.0 (19.4)	9.60 (11.40)	3.70 (4.39)	0.019 (0.023)	6.69 (7.93)
23	69.3 (8.9)	25.3 (3.2)	0.28 (0.04)	94.8 (12.1)	125.0 (16.5)	45.8 (6.0)	0.50 (0.07)	177.0 (23.3)	4.44 (3.26)	1.71 (1.26)	0.009 (0.007)	3.09 (2.27)
24	74.4 (11.0)	27.2 (4.0)	0.30 (0.04)	101.0 (15.0)	117.0 (18.6)	42.6 (6.8)	0.47 (0.08)	165.0 (26.3)				
25	62.2 (15.4)	22.8 (5.6)	0.25 (0.06)	84.6 (21.0)	86.2 (17.7)	31.5 (6.5)	0.35 (0.07)	122.0 (25.0)	13.00 (16.20)	5.00 (6.25)	0.026 (0.033)	9.00 (11.30)
26	44.8 (6.6)	16.4 (2.4)	0.18 (0.03)	60.7 (9.0)	82.1 (7.9)	30.0 (2.9)	0.33 (0.03)	116.0 (11.2)	5.69 (8.97)	2.19 (3.46)	0.012 (0.018)	3.94 (6.21)
27												
28												
29	47.3 (9.4)	17.3 (3.4)	0.19 (0.04)	63.8 (12.6)	99.1 (8.9)	36.2 (3.3)	0.40 (0.04)	141.0 (12.7)	5.49 (3.81)	2.12 (1.47)	0.011 (0.008)	3.80 (2.64)
30	62.0 (9.0)	22.7 (3.3)	0.25 (0.04)	83.7 (12.1)	116.0 (18.0)	42.5 (6.6)	0.47 (0.07)	165.0 (25.5)	3.73 (3.99)	1.44 (1.54)	0.008 (0.008)	2.58 (2.76)
31	72.5 (9.7)	26.5 (3.5)	0.29 (0.04)	97.8 (13.1)	117.0 (15.1)	42.6 (5.5)	0.47 (0.06)	166.0 (21.5)	8.14 (7.04)	3.14 (2.72)	0.016 (0.014)	5.64 (4.88)
Avg	87.3	31.9	0.35	122.0	99.3	36.3	0.40	140.0	10.20	3.94	0.021	7.17
n	27	27	27	27	26	26	26	26	26	26	26	26
SD	22.9	8.4	0.09	33.4	15.1	5.5	0.06	21.5	4.95	1.91	0.010	3.50
Min	44.8	16.4	0.18	60.7	74.0	27.1	0.30	104.0	2.26	0.87	0.005	1.58
Max	127.0	46.6	0.51	178.0	128.0	46.7	0.51	180.0	22.70	8.75	0.046	16.10

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for April, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	57.7 (13.2)	21.1 (4.8)	0.23 (0.05)	77.9 (17.8)	95.7 (17.2)	35.0 (6.3)	0.39 (0.07)	136.0 (24.5)	8.57 (4.78)	3.30 (1.84)	0.017 (0.010)	5.94 (3.31)
2									9.76 (11.10)	3.76 (4.29)	0.020 (0.022)	6.77 (7.71)
3	47.5 (11.9)	17.4 (4.4)	0.19 (0.05)	64.2 (16.1)	62.4 (12.4)	22.8 (4.5)	0.25 (0.05)	89.1 (17.7)	2.30 (3.38)	0.89 (1.30)	0.005 (0.007)	1.59 (2.34)
4	51.3 (9.1)	18.8 (3.3)	0.21 (0.04)	69.4 (12.3)	60.7 (10.7)	22.2 (3.9)	0.24 (0.04)	86.6 (15.2)	2.69 (3.00)	1.04 (1.16)	0.005 (0.006)	1.87 (2.09)
5	58.1 (12.9)	21.2 (4.7)	0.24 (0.05)	78.7 (17.5)	76.0 (11.4)	27.8 (4.2)	0.31 (0.05)	109.0 (16.4)	2.18 (2.41)	0.84 (0.93)	0.004 (0.005)	1.51 (1.68)
6	46.8 (7.0)	17.1 (2.6)	0.19 (0.03)	63.6 (9.5)	82.9 (12.7)	30.3 (4.7)	0.33 (0.05)	118.0 (18.2)	1.23 (2.19)	0.47 (0.84)	0.002 (0.004)	0.86 (1.52)
7	49.5 (10.2)	18.1 (3.7)	0.20 (0.04)	67.4 (13.9)	77.3 (15.5)	28.3 (5.7)	0.31 (0.06)	110.0 (22.1)	3.14 (3.46)	1.21 (1.34)	0.006 (0.007)	2.19 (2.41)
8	55.1 (12.7)	20.2 (4.6)	0.22 (0.05)	75.3 (17.3)	63.1 (15.4)	23.1 (5.7)	0.25 (0.06)	90.1 (22.1)	4.62 (3.65)	1.78 (1.41)	0.009 (0.007)	3.23 (2.55)
9					55.5 (14.4)	20.3 (5.3)	0.22 (0.06)	79.2 (20.6)	5.16 (5.77)	1.99 (2.23)	0.010 (0.012)	3.60 (4.04)
10	37.3 (8.8)	13.6 (3.2)	0.15 (0.04)	51.2 (12.1)	48.3 (9.7)	17.7 (3.5)	0.19 (0.04)	68.9 (13.8)	2.86 (4.06)	1.10 (1.57)	0.006 (0.008)	2.00 (2.84)
11	40.8 (7.3)	14.9 (2.7)	0.17 (0.03)	56.1 (10.1)	49.4 (9.6)	18.1 (3.5)	0.20 (0.04)	70.5 (13.7)	3.48 (3.38)	1.34 (1.30)	0.007 (0.007)	2.44 (2.37)
12	58.5 (6.8)	21.4 (2.5)	0.24 (0.03)	80.4 (9.4)	69.7 (7.2)	25.5 (2.6)	0.28 (0.03)	99.5 (10.3)	5.49 (4.67)	2.12 (1.80)	0.011 (0.009)	3.84 (3.27)
13	59.3 (10.1)	21.7 (3.7)	0.24 (0.04)	81.5 (13.8)	77.5 (9.7)	28.4 (3.6)	0.31 (0.04)	111.0 (13.9)	4.14 (4.17)	1.60 (1.61)	0.008 (0.008)	2.90 (2.92)
14	56.5 (10.9)	20.7 (4.0)	0.23 (0.04)	77.7 (15.0)	68.2 (16.4)	24.9 (6.0)	0.28 (0.07)	97.1 (23.4)	1.52 (3.06)	0.59 (1.18)	0.003 (0.006)	1.06 (2.14)
15	52.4 (13.3)	19.2 (4.9)	0.21 (0.05)	72.1 (18.3)	55.5 (13.9)	20.3 (5.1)	0.22 (0.06)	79.0 (19.9)	4.40 (7.03)	1.70 (2.71)	0.009 (0.014)	3.08 (4.91)
16	51.8 (12.2)	19.0 (4.5)	0.21 (0.05)	71.3 (16.8)	65.9 (10.9)	24.1 (4.0)	0.27 (0.04)	93.7 (15.5)	5.67 (7.69)	2.19 (2.96)	0.012 (0.016)	3.96 (5.38)
17									7.40 (8.55)	2.86 (3.30)	0.015 (0.017)	5.18 (5.98)
18	51.6 (6.9)	18.9 (2.5)	0.21 (0.03)	71.0 (9.5)	62.8 (9.1)	23.0 (3.3)	0.25 (0.04)	89.2 (12.9)	11.00 (11.70)	4.24 (4.52)	0.022 (0.024)	7.69 (8.20)
19	52.0 (5.1)	19.0 (1.9)	0.21 (0.02)	71.8 (7.1)	77.1 (8.1)	28.2 (3.0)	0.31 (0.03)	110.0 (11.6)	4.59 (5.59)	1.77 (2.16)	0.009 (0.011)	3.21 (3.91)
20	60.0 (8.3)	21.9 (3.0)	0.24 (0.03)	82.9 (11.4)	78.2 (12.6)	28.6 (4.6)	0.32 (0.05)	111.0 (17.9)	4.12 (4.06)	1.59 (1.56)	0.008 (0.008)	2.89 (2.84)
21	64.5 (9.9)	23.6 (3.6)	0.26 (0.04)	89.4 (13.7)	77.2 (9.7)	28.2 (3.6)	0.31 (0.04)	110.0 (13.8)	4.34 (3.23)	1.68 (1.25)	0.009 (0.007)	3.05 (2.27)
22	58.8 (13.2)	21.5 (4.8)	0.24 (0.05)	81.7 (18.3)	72.8 (12.5)	26.6 (4.6)	0.29 (0.05)	103.0 (17.7)	2.90 (3.20)	1.12 (1.23)	0.006 (0.006)	2.04 (2.25)
23	53.0 (5.8)	19.4 (2.1)	0.22 (0.02)	73.8 (8.0)	64.7 (9.5)	23.7 (3.5)	0.26 (0.04)	92.0 (13.5)	7.73 (7.85)	2.98 (3.03)	0.016 (0.016)	5.44 (5.52)
24	46.7 (7.1)	17.1 (2.6)	0.19 (0.03)	65.2 (9.9)	64.5 (15.8)	23.6 (5.8)	0.26 (0.06)	91.7 (22.5)	10.20 (6.55)	3.93 (2.53)	0.021 (0.013)	7.18 (4.61)
25	48.2 (9.9)	17.6 (3.6)	0.20 (0.04)	67.0 (13.6)	70.7 (21.3)	25.8 (7.8)	0.29 (0.09)	101.0 (30.3)	8.89 (3.16)	3.43 (1.22)	0.018 (0.006)	6.25 (2.22)
26	61.6 (14.0)	22.5 (5.1)	0.25 (0.06)	84.9 (19.2)	98.4 (35.1)	36.0 (12.8)	0.40 (0.14)	140.0 (50.1)	11.20 (4.72)	4.33 (1.82)	0.023 (0.010)	7.87 (3.31)
27	44.7 (6.2)	16.4 (2.3)	0.18 (0.03)	61.2 (8.6)	77.2 (15.6)	28.3 (5.7)	0.31 (0.06)	110.0 (22.3)	7.14 (4.05)	2.75 (1.56)	0.014 (0.008)	4.99 (2.84)
28	37.0 (7.2)	13.5 (2.6)	0.15 (0.03)	50.2 (9.9)	55.7 (5.7)	20.4 (2.1)	0.23 (0.02)	79.7 (8.1)	2.09 (2.23)	0.81 (0.86)	0.004 (0.005)	1.46 (1.55)
29	34.8 (8.1)	12.7 (3.0)	0.14 (0.03)	46.9 (10.9)	52.8 (5.1)	19.3 (1.9)	0.21 (0.02)	75.7 (7.3)	1.69 (1.68)	0.65 (0.65)	0.003 (0.003)	1.17 (1.17)
30	44.1 (5.6)	16.1 (2.1)	0.18 (0.02)	58.9 (7.5)	65.3 (8.0)	23.9 (2.9)	0.26 (0.03)	93.8 (11.4)	3.84 (3.58)	1.48 (1.38)	0.008 (0.007)	2.66 (2.48)
Avg	51.1	18.7	0.21	70.1	68.8	25.2	0.28	98.0	5.15	1.98	0.010	3.60
n	27	27	27	27	28	28	28	28	30	30	30	30
SD	7.7	2.8	0.03	10.8	12.1	4.4	0.05	17.3	2.92	1.12	0.006	2.04
Min	34.8	12.7	0.14	46.9	48.3	17.7	0.19	68.9	1.23	0.47	0.002	0.86
Max	64.5	23.6	0.26	89.4	98.4	36.0	0.40	140.0	11.20	4.33	0.023	7.87

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for May, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	46.9 (15.0)	17.2 (5.5)	0.19 (0.06)	62.2 (20.0)	64.4 (17.7)	23.6 (6.5)	0.26 (0.07)	92.7 (25.4)	2.14 (2.73)	0.83 (1.05)	0.004 (0.006)	1.48 (1.88)
2	35.8 (9.4)	13.1 (3.4)	0.15 (0.04)	47.5 (12.5)	45.1 (5.5)	16.5 (2.0)	0.18 (0.02)	65.0 (7.9)	3.31 (3.00)	1.27 (1.16)	0.007 (0.006)	2.28 (2.08)
3	42.6 (8.7)	15.6 (3.2)	0.17 (0.04)	57.0 (11.7)	63.8 (9.7)	23.3 (3.6)	0.26 (0.04)	91.9 (14.0)	2.89 (3.34)	1.12 (1.29)	0.006 (0.007)	2.01 (2.32)
4	39.8 (6.8)	14.6 (2.5)	0.16 (0.03)	53.9 (9.2)	65.0 (10.4)	23.8 (3.8)	0.26 (0.04)	93.6 (14.9)	0.96 (1.22)	0.37 (0.47)	0.002 (0.002)	0.67 (0.85)
5	37.0 (9.7)	13.5 (3.6)	0.15 (0.04)	50.5 (13.3)	54.5 (10.8)	19.9 (4.0)	0.22 (0.04)	78.5 (15.6)	2.61 (3.63)	1.01 (1.40)	0.005 (0.007)	1.83 (2.55)
6	34.8 (6.8)	12.7 (2.5)	0.14 (0.03)	47.9 (9.3)	49.2 (9.4)	18.0 (3.4)	0.20 (0.04)	70.8 (13.5)	3.35 (2.93)	1.29 (1.13)	0.007 (0.006)	2.36 (2.06)
7	37.6 (14.4)	13.8 (5.3)	0.15 (0.06)	52.4 (20.1)	56.7 (21.4)	20.7 (7.8)	0.23 (0.09)	81.5 (30.8)	7.12 (3.63)	2.75 (1.40)	0.014 (0.007)	5.04 (2.57)
8	49.6 (7.1)	18.1 (2.6)	0.20 (0.03)	69.8 (10.1)	77.0 (13.5)	28.2 (5.0)	0.31 (0.06)	111.0 (19.5)	4.54 (4.32)	1.75 (1.66)	0.009 (0.009)	3.23 (3.07)
9	40.5 (10.2)	14.8 (3.8)	0.17 (0.04)	57.3 (14.5)	61.6 (15.8)	22.5 (5.8)	0.25 (0.06)	88.6 (22.7)	4.02 (4.22)	1.55 (1.63)	0.008 (0.009)	2.86 (3.01)
10	45.7 (9.3)	16.7 (3.4)	0.19 (0.04)	64.3 (13.1)	70.2 (11.1)	25.7 (4.1)	0.28 (0.05)	101.0 (15.9)	2.34 (2.22)	0.90 (0.86)	0.005 (0.005)	1.67 (1.58)
11	44.7 (6.7)	16.4 (2.5)	0.18 (0.03)	62.8 (9.5)	72.8 (8.0)	26.6 (2.9)	0.29 (0.03)	105.0 (11.4)	0.79 (1.48)	0.30 (0.57)	0.002 (0.003)	0.56 (1.05)
12	44.2 (6.5)	16.2 (2.4)	0.18 (0.03)	61.9 (9.0)	63.9 (6.8)	23.4 (2.5)	0.26 (0.03)	91.8 (9.8)	2.58 (2.63)	0.99 (1.01)	0.005 (0.005)	1.83 (1.86)
13	39.8 (5.4)	14.5 (2.0)	0.16 (0.02)	55.5 (7.5)	57.8 (10.0)	21.1 (3.7)	0.23 (0.04)	83.0 (14.3)	7.16 (4.56)	2.76 (1.76)	0.015 (0.009)	5.07 (3.23)
14	47.6 (10.3)	17.4 (3.8)	0.19 (0.04)	66.3 (14.4)	62.0 (11.3)	22.7 (4.1)	0.25 (0.05)	89.0 (16.2)	2.83 (2.53)	1.09 (0.98)	0.006 (0.005)	2.00 (1.79)
15	44.8 (9.4)	16.4 (3.4)	0.18 (0.04)	62.2 (13.0)	63.6 (12.9)	23.3 (4.7)	0.26 (0.05)	91.3 (18.4)	3.01 (3.53)	1.16 (1.36)	0.006 (0.007)	2.13 (2.49)
16	43.9 (12.8)	16.1 (4.7)	0.18 (0.05)	61.0 (17.7)	60.4 (13.7)	22.1 (5.0)	0.24 (0.06)	86.8 (19.6)	1.77 (2.02)	0.68 (0.78)	0.004 (0.004)	1.25 (1.42)
17	41.3 (3.5)	15.1 (1.3)	0.17 (0.01)	57.7 (4.9)	64.2 (6.4)	23.5 (2.4)	0.26 (0.03)	92.2 (9.2)	0.85 (1.38)	0.33 (0.53)	0.002 (0.003)	0.60 (0.98)
18	48.3 (8.0)	17.7 (2.9)	0.20 (0.03)	67.8 (11.1)	67.4 (11.4)	24.7 (4.2)	0.27 (0.05)	96.9 (16.4)	4.23 (3.31)	1.63 (1.28)	0.009 (0.007)	3.01 (2.36)
19	45.0 (8.3)	16.5 (3.0)	0.18 (0.03)	63.5 (11.7)	53.1 (9.8)	19.4 (3.6)	0.22 (0.04)	76.4 (14.1)	7.41 (3.10)	2.86 (1.19)	0.015 (0.006)	5.28 (2.21)
20	36.2 (10.2)	13.2 (3.7)	0.15 (0.04)	51.3 (14.4)	46.2 (14.8)	16.9 (5.4)	0.19 (0.06)	66.5 (21.3)	6.67 (3.12)	2.57 (1.20)	0.014 (0.006)	4.76 (2.23)
21	29.7 (8.5)	10.9 (3.1)	0.12 (0.04)	42.4 (12.1)	35.7 (11.2)	13.1 (4.1)	0.15 (0.05)	51.4 (16.2)	3.53 (2.24)	1.36 (0.86)	0.007 (0.005)	2.53 (1.61)
22	31.6 (5.7)	11.5 (2.1)	0.13 (0.02)	45.3 (8.1)	42.3 (6.2)	15.5 (2.3)	0.17 (0.03)	60.9 (8.9)	1.09 (1.07)	0.42 (0.41)	0.002 (0.002)	0.79 (0.77)
23	35.4 (12.6)	12.9 (4.6)	0.15 (0.05)	50.9 (18.1)	44.1 (9.4)	16.1 (3.4)	0.18 (0.04)	63.6 (13.5)	2.64 (4.87)	1.02 (1.88)	0.005 (0.010)	1.90 (3.51)
24	38.8 (11.5)	14.2 (4.2)	0.16 (0.05)	55.9 (16.5)	58.1 (18.8)	21.3 (6.9)	0.24 (0.08)	84.0 (27.2)	2.39 (2.71)	0.92 (1.04)	0.005 (0.006)	1.72 (1.95)
25	34.0 (5.3)	12.4 (1.9)	0.14 (0.02)	49.0 (7.6)	56.1 (7.1)	20.5 (2.6)	0.23 (0.03)	81.3 (10.3)	2.28 (1.36)	0.88 (0.52)	0.005 (0.003)	1.65 (0.98)
26	40.7 (9.6)	14.9 (3.5)	0.17 (0.04)	58.5 (13.8)	64.5 (17.2)	23.6 (6.3)	0.26 (0.07)	93.6 (25.0)	2.11 (1.77)	0.82 (0.68)	0.004 (0.004)	1.53 (1.28)
27	51.1 (10.3)	18.7 (3.8)	0.21 (0.04)	73.6 (14.8)	72.3 (14.7)	26.4 (5.4)	0.29 (0.06)	105.0 (21.4)	2.99 (2.23)	1.15 (0.86)	0.006 (0.005)	2.17 (1.61)
28	30.3 (9.8)	11.2 (3.5)	0.13 (0.04)	43.8 (14.0)	49.8 (9.4)	18.2 (3.5)	0.20 (0.04)	72.6 (13.7)	1.25 (1.41)	0.48 (0.54)	0.003 (0.003)	0.91 (1.02)
29	38.5 (10.4)	14.1 (3.8)	0.16 (0.04)	55.5 (15.0)	65.1 (18.0)	23.8 (6.6)	0.26 (0.07)	95.0 (26.2)	1.18 (1.35)	0.46 (0.52)	0.002 (0.003)	0.86 (0.98)
30	38.6 (8.1)	14.1 (2.9)	0.16 (0.03)	55.7 (11.6)	59.8 (9.4)	21.9 (3.4)	0.24 (0.04)	87.4 (13.7)	2.18 (1.90)	0.84 (0.73)	0.004 (0.004)	1.58 (1.38)
31	38.4 (11.3)	14.0 (4.1)	0.16 (0.05)	55.4 (16.3)	65.7 (16.3)	24.0 (5.9)	0.27 (0.07)	96.0 (23.8)	1.51 (1.80)	0.58 (0.69)	0.003 (0.004)	1.10 (1.31)
Avg	40.4	14.8	0.17	56.7	59.1	21.6	0.24	85.3	3.02	1.17	0.006	2.15
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	5.5	2.0	0.02	7.6	9.6	3.5	0.04	13.8	1.83	0.71	0.004	1.30
Min	29.7	10.9	0.12	42.4	35.7	13.1	0.15	51.4	0.79	0.30	0.002	0.56
Max	51.1	18.7	0.21	73.6	77.0	28.2	0.31	111.0	7.41	2.86	0.015	5.28

ED_001509B_00005068-00299

Table F13. Daily means (SD) of ammonia emissions at site IN2B for June, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	48.8 (16.6)	17.9 (6.1)	0.20 (0.07)	70.6 (24.0)	67.5 (16.8)	24.7 (6.2)	0.27 (0.07)	98.7 (24.6)	3.47 (2.72)	1.34 (1.05)	0.007 (0.006)	2.52 (1.97)
2	41.6 (6.6)	15.2 (2.4)	0.17 (0.03)	60.3 (9.6)	68.3 (10.4)	25.0 (3.8)	0.28 (0.04)	99.8 (15.2)	1.36 (1.15)	0.53 (0.45)	0.003 (0.002)	0.99 (0.84)
3	40.8 (4.9)	14.9 (1.8)	0.17 (0.02)	59.1 (7.0)	55.0 (13.1)	20.1 (4.8)	0.22 (0.05)	80.5 (19.1)	1.13 (0.92)	0.44 (0.36)	0.002 (0.002)	0.83 (0.67)
4	42.2 (9.1)	15.4 (3.3)	0.17 (0.04)	61.2 (13.1)	48.5 (8.3)	17.7 (3.1)	0.20 (0.03)	71.0 (12.2)	0.81 (0.86)	0.31 (0.33)	0.002 (0.002)	0.59 (0.63)
5	40.8 (4.9)	14.9 (1.8)	0.17 (0.02)	59.3 (7.0)	49.4 (7.9)	18.1 (2.9)	0.20 (0.03)	72.3 (11.6)	1.24 (1.46)	0.48 (0.57)	0.003 (0.003)	0.91 (1.07)
6	41.2 (6.1)	15.1 (2.2)	0.17 (0.03)	59.8 (8.9)	49.3 (8.9)	18.0 (3.3)	0.20 (0.04)	72.2 (13.0)	2.91 (1.95)	1.12 (0.75)	0.006 (0.004)	2.12 (1.42)
7	63.8 (17.7)	23.3 (6.5)	0.26 (0.07)	92.7 (25.7)	60.2 (16.3)	22.0 (6.0)	0.24 (0.07)	88.1 (23.9)	1.82 (1.06)	0.70 (0.41)	0.004 (0.002)	1.33 (0.78)
8	71.6 (14.7)	26.2 (5.4)	0.29 (0.06)	104.0 (21.4)	67.3 (21.0)	24.6 (7.7)	0.27 (0.09)	98.6 (30.8)	1.47 (1.62)	0.57 (0.62)	0.003 (0.003)	1.07 (1.18)
9	53.5 (9.3)	19.6 (3.4)	0.22 (0.04)	77.6 (13.6)					0.74 (0.84)	0.28 (0.33)	0.002 (0.002)	0.54 (0.61)
10	46.8 (5.8)	17.1 (2.1)	0.19 (0.02)	67.9 (8.4)	58.0 (9.0)	21.2 (3.3)	0.24 (0.04)	85.0 (13.2)	0.81 (0.65)	0.31 (0.25)	0.002 (0.001)	0.59 (0.48)
11												
12	80.7 (45.5)	29.5 (16.7)	0.33 (0.19)	117.0 (66.1)	50.7 (7.1)	18.6 (2.6)	0.21 (0.03)	74.3 (10.4)	1.12 (1.17)	0.43 (0.45)	0.002 (0.002)	0.82 (0.86)
13	41.1 (11.6)	15.0 (4.3)	0.17 (0.05)	59.7 (16.9)	50.5 (12.6)	18.5 (4.6)	0.21 (0.05)	73.9 (18.4)	1.68 (2.11)	0.65 (0.81)	0.003 (0.004)	1.23 (1.53)
14	53.9 (16.1)	19.7 (5.9)	0.22 (0.07)	78.2 (23.3)	63.3 (21.0)	23.1 (7.7)	0.26 (0.09)	92.6 (30.7)	1.35 (1.09)	0.52 (0.42)	0.003 (0.002)	0.98 (0.79)
15	49.0 (14.2)	17.9 (5.2)	0.20 (0.06)	71.0 (20.6)	72.6 (14.0)	26.5 (5.1)	0.30 (0.06)	106.0 (20.5)	1.09 (1.37)	0.42 (0.53)	0.002 (0.003)	0.79 (1.00)
16	45.4 (9.8)	16.6 (3.6)	0.19 (0.04)	65.8 (14.2)	59.1 (7.8)	21.6 (2.8)	0.24 (0.03)	86.5 (11.4)	1.68 (1.25)	0.65 (0.48)	0.003 (0.003)	1.22 (0.91)
17	55.0 (13.3)	20.1 (4.9)	0.23 (0.06)	79.5 (19.2)	70.7 (16.2)	25.9 (5.9)	0.29 (0.07)	103.0 (23.8)	0.96 (1.22)	0.37 (0.47)	0.002 (0.002)	0.70 (0.89)
18	63.1 (15.4)	23.1 (5.6)	0.26 (0.06)	91.3 (22.3)	74.1 (20.7)	27.1 (7.6)	0.30 (0.08)	108.0 (30.2)	1.68 (1.79)	0.65 (0.69)	0.003 (0.004)	1.22 (1.30)
19	57.7 (19.0)	21.1 (7.0)	0.24 (0.08)	83.4 (27.5)	66.4 (22.2)	24.3 (8.1)	0.27 (0.09)	97.2 (32.5)	2.58 (2.29)	0.99 (0.88)	0.005 (0.005)	1.87 (1.66)
20	50.1 (15.8)	18.3 (5.8)	0.21 (0.07)	72.4 (22.8)	54.7 (20.6)	20.0 (7.6)	0.22 (0.08)	80.0 (30.2)	3.21 (3.20)	1.24 (1.23)	0.007 (0.007)	2.33 (2.33)
21	65.0 (34.0)	23.8 (12.4)	0.27 (0.14)	93.7 (49.0)	62.0 (20.9)	22.7 (7.7)	0.25 (0.09)	90.8 (30.6)	3.47 (4.89)	1.34 (1.89)	0.007 (0.010)	2.52 (3.55)
22	54.9 (12.7)	20.1 (4.6)	0.23 (0.05)	79.1 (18.3)	68.9 (10.8)	25.2 (4.0)	0.28 (0.04)	101.0 (15.8)	2.23 (2.44)	0.86 (0.94)	0.005 (0.005)	1.62 (1.77)
23	39.0 (13.8)	14.3 (5.1)	0.16 (0.06)	56.1 (19.9)	43.7 (19.7)	16.0 (7.2)	0.18 (0.08)	63.9 (28.9)	1.16 (1.25)	0.45 (0.48)	0.002 (0.003)	0.84 (0.91)
24	37.8 (13.3)	13.8 (4.9)	0.16 (0.06)	54.4 (19.2)	35.7 (3.7)	13.1 (1.4)	0.15 (0.02)	52.3 (5.4)	0.78 (0.88)	0.30 (0.34)	0.002 (0.002)	0.56 (0.64)
25												
26												
27	25.4 (10.3)	9.3 (3.8)	0.11 (0.04)	36.5 (14.8)	29.8 (8.9)	10.9 (3.3)	0.12 (0.04)	43.5 (13.0)	1.70 (2.89)	0.66 (1.11)	0.003 (0.006)	1.23 (2.09)
28												
29												
30												
Avg	50.4	18.4	0.21	72.9	57.6	21.1	0.23	84.3	1.69	0.65	0.003	1.23
n	24	24	24	24	23	23	23	23	24	24	24	24
SD	12.1	4.4	0.05	17.5	11.5	4.2	0.05	16.8	0.84	0.32	0.002	0.61
Min	25.4	9.3	0.11	36.5	29.8	10.9	0.12	43.5	0.74	0.28	0.002	0.54
Max	80.7	29.5	0.33	117.0	74.1	27.1	0.30	108.0	3.47	1.34	0.007	2.52

ED_001509B_00005068-00300

Table F13. Daily means (SD) of ammonia emissions at site IN2B for July, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1												
2												
3												
4												
5												
6												
7	36.3 (8.4)	13.3 (3.1)	0.15 (0.04)	51.7 (11.9)	46.8 (10.8)	17.1 (3.9)	0.19 (0.04)	68.3 (15.7)	0.89 (1.25)	0.34 (0.48)	0.002 (0.003)	0.65 (0.90)
8	26.8 (3.7)	9.8 (1.4)	0.11 (0.02)	38.2 (5.3)	35.4 (4.2)	13.0 (1.5)	0.15 (0.02)	51.9 (6.2)	0.67 (0.75)	0.26 (0.29)	0.001 (0.002)	0.48 (0.54)
9	32.5 (8.9)	11.9 (3.2)	0.14 (0.04)	46.4 (12.6)	44.7 (8.2)	16.3 (3.0)	0.18 (0.03)	65.4 (12.0)	0.93 (0.71)	0.36 (0.27)	0.002 (0.001)	0.67 (0.51)
10	32.4 (5.3)	11.9 (1.9)	0.13 (0.02)	46.2 (7.5)	43.0 (5.8)	15.7 (2.1)	0.18 (0.02)	63.0 (8.5)	1.00 (0.72)	0.39 (0.28)	0.002 (0.001)	0.72 (0.52)
11	39.8 (9.6)	14.6 (3.5)	0.17 (0.04)	56.8 (13.7)	45.2 (10.9)	16.5 (4.0)	0.19 (0.05)	66.3 (16.0)	1.18 (0.95)	0.45 (0.37)	0.002 (0.002)	0.85 (0.69)
12	47.3 (13.4)	17.3 (4.9)	0.20 (0.06)	67.5 (19.2)	63.3 (12.6)	23.2 (4.6)	0.26 (0.05)	93.0 (18.5)	0.74 (1.00)	0.29 (0.39)	0.002 (0.002)	0.54 (0.72)
13	42.9 (11.6)	15.7 (4.3)	0.18 (0.05)	61.3 (16.6)	60.4 (16.9)	22.1 (6.2)	0.25 (0.07)	88.6 (24.7)	0.97 (0.93)	0.37 (0.36)	0.002 (0.002)	0.70 (0.68)
14	38.5 (8.5)	14.1 (3.1)	0.16 (0.04)	55.0 (12.2)	43.0 (8.0)	15.7 (2.9)	0.18 (0.03)	63.1 (11.7)	2.55 (2.77)	0.98 (1.07)	0.005 (0.006)	1.84 (2.01)
15	37.2 (9.4)	13.6 (3.4)	0.16 (0.04)	53.3 (13.5)	44.5 (11.4)	16.3 (4.2)	0.18 (0.05)	65.4 (16.7)	4.51 (5.23)	1.74 (2.02)	0.009 (0.011)	3.27 (3.79)
16	38.0 (7.3)	13.9 (2.7)	0.16 (0.03)	54.4 (10.5)	44.6 (4.7)	16.3 (1.7)	0.18 (0.02)	65.5 (6.8)	1.38 (1.23)	0.53 (0.48)	0.003 (0.003)	1.00 (0.90)
17	28.8 (4.4)	10.5 (1.6)	0.12 (0.02)	41.2 (6.3)					1.24 (1.38)	0.48 (0.53)	0.003 (0.003)	0.90 (1.00)
18	31.5 (5.4)	11.5 (2.0)	0.13 (0.02)	45.2 (7.7)	37.9 (5.7)	13.9 (2.1)	0.16 (0.02)	55.7 (8.3)	1.29 (1.31)	0.50 (0.51)	0.003 (0.003)	0.94 (0.95)
19	47.5 (11.2)	17.4 (4.1)	0.20 (0.05)	68.2 (16.1)	55.7 (15.6)	20.4 (5.7)	0.23 (0.06)	81.7 (22.9)	1.68 (1.75)	0.65 (0.67)	0.003 (0.004)	1.22 (1.27)
20	54.2 (9.7)	19.8 (3.6)	0.23 (0.04)	77.8 (14.0)	64.8 (15.2)	23.7 (5.6)	0.27 (0.06)	95.0 (22.3)	1.52 (1.45)	0.59 (0.56)	0.003 (0.003)	1.10 (1.05)
21	40.7 (10.5)	14.9 (3.8)	0.17 (0.04)	58.5 (15.0)	49.3 (13.1)	18.0 (4.8)	0.20 (0.05)	72.1 (19.2)	1.98 (1.91)	0.76 (0.74)	0.004 (0.004)	1.44 (1.39)
22	36.3 (5.3)	13.3 (1.9)	0.15 (0.02)	52.2 (7.6)	41.8 (6.2)	15.3 (2.3)	0.17 (0.03)	61.2 (9.1)	2.19 (1.56)	0.85 (0.60)	0.005 (0.003)	1.59 (1.13)
23	43.3 (7.0)	15.8 (2.6)	0.18 (0.03)	62.3 (10.0)	48.4 (7.3)	17.7 (2.7)	0.20 (0.03)	70.8 (10.6)	1.48 (1.55)	0.57 (0.60)	0.003 (0.003)	1.07 (1.12)
24	44.5 (9.8)	16.3 (3.6)	0.19 (0.04)	64.1 (14.1)	41.6 (9.2)	15.2 (3.4)	0.17 (0.04)	60.7 (13.5)	2.11 (1.43)	0.81 (0.55)	0.004 (0.003)	1.53 (1.04)
25	38.9 (6.3)	14.2 (2.3)	0.16 (0.03)	56.1 (9.0)	45.6 (6.4)	16.7 (2.4)	0.19 (0.03)	66.6 (9.4)	2.69 (2.08)	1.04 (0.80)	0.006 (0.004)	1.95 (1.51)
26	55.5 (16.9)	20.3 (6.2)	0.23 (0.07)	80.1 (24.4)	60.9 (14.7)	22.3 (5.4)	0.25 (0.06)	89.4 (21.6)	2.16 (1.56)	0.83 (0.60)	0.004 (0.003)	1.57 (1.14)
27	63.7 (15.4)	23.3 (5.6)	0.27 (0.06)	91.9 (22.3)	70.7 (15.0)	25.9 (5.5)	0.29 (0.06)	104.0 (22.0)	2.73 (1.79)	1.05 (0.69)	0.006 (0.004)	1.99 (1.31)
28	46.8 (12.3)	17.1 (4.5)	0.20 (0.05)	67.6 (17.7)	53.1 (9.8)	19.4 (3.6)	0.22 (0.04)	78.3 (14.3)	2.95 (1.83)	1.14 (0.71)	0.006 (0.004)	2.16 (1.34)
29	40.0 (6.5)	14.6 (2.4)	0.17 (0.03)	57.8 (9.4)	42.7 (8.8)	15.6 (3.2)	0.18 (0.04)	63.1 (12.9)	1.33 (1.93)	0.51 (0.74)	0.003 (0.004)	0.97 (1.41)
30	39.6 (5.1)	14.5 (1.9)	0.17 (0.02)	57.3 (7.4)	37.4 (5.6)	13.7 (2.0)	0.15 (0.02)	55.4 (8.2)	2.60 (2.46)	1.00 (0.95)	0.005 (0.005)	1.91 (1.80)
31	37.9 (4.9)	13.9 (1.8)	0.16 (0.02)	54.9 (7.1)	39.5 (6.4)	14.5 (2.3)	0.16 (0.03)	58.7 (9.4)	2.35 (2.47)	0.90 (0.95)	0.005 (0.005)	1.72 (1.81)
Avg	40.8	14.9	0.17	58.6	48.3	17.7	0.20	71.0	1.80	0.70	0.004	1.31
n	25	25	25	25	24	24	24	24	25	25	25	25
SD	8.3	3.0	0.04	12.0	9.3	3.4	0.04	13.7	0.88	0.34	0.002	0.64
Min	26.8	9.8	0.11	38.2	35.4	13.0	0.15	51.9	0.67	0.26	0.001	0.48
Max	63.7	23.3	0.27	91.9	70.7	25.9	0.29	104.0	4.51	1.74	0.009	3.27

ED_001509B_00005068-00301

Table F13. Daily means (SD) of ammonia emissions at site IN2B for August, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	37.0 (4.8)	13.5 (1.8)	0.15 (0.02)	53.6 (7.0)	39.7 (4.2)	14.5 (1.6)	0.16 (0.02)	59.0 (6.3)	2.69 (1.67)	1.04 (0.64)	0.006 (0.003)	1.97 (1.22)
2	50.4 (10.9)	18.4 (4.0)	0.21 (0.05)	73.1 (15.8)	56.8 (10.9)	20.8 (4.0)	0.23 (0.05)	84.5 (16.2)	2.05 (1.81)	0.79 (0.70)	0.004 (0.004)	1.51 (1.33)
3	59.6 (11.7)	21.8 (4.3)	0.25 (0.05)	86.5 (16.9)	61.3 (12.3)	22.4 (4.5)	0.25 (0.05)	91.2 (18.2)	2.57 (1.24)	0.99 (0.48)	0.005 (0.003)	1.88 (0.91)
4	51.6 (14.1)	18.9 (5.2)	0.22 (0.06)	75.0 (20.5)	54.9 (11.3)	20.1 (4.1)	0.23 (0.05)	81.6 (16.8)	2.99 (2.34)	1.15 (0.90)	0.006 (0.005)	2.19 (1.72)
5	38.9 (6.3)	14.2 (2.3)	0.16 (0.03)	56.6 (9.2)	45.7 (8.4)	16.7 (3.1)	0.19 (0.03)	68.0 (12.4)	1.02 (1.06)	0.39 (0.41)	0.002 (0.002)	0.75 (0.78)
6	37.0 (6.6)	13.5 (2.4)	0.16 (0.03)	53.8 (9.5)	34.6 (6.1)	12.7 (2.2)	0.14 (0.03)	51.5 (9.0)	0.77 (1.02)	0.30 (0.39)	0.002 (0.002)	0.57 (0.75)
7					31.7 (4.1)	11.6 (1.5)	0.13 (0.02)	47.2 (6.1)	1.84 (1.29)	0.71 (0.50)	0.004 (0.003)	1.36 (0.95)
8	52.0 (13.0)	19.0 (4.8)	0.22 (0.05)	75.7 (18.9)	75.6 (26.8)	27.7 (9.8)	0.31 (0.11)	113.0 (39.9)	3.32 (2.31)	1.28 (0.89)	0.007 (0.005)	2.44 (1.70)
9	72.7 (13.0)	26.6 (4.8)	0.30 (0.06)	106.0 (19.0)	124.0 (35.5)	45.2 (13.0)	0.51 (0.15)	184.0 (53.0)	2.50 (1.20)	0.97 (0.46)	0.005 (0.002)	1.84 (0.88)
10	71.5 (18.7)	26.1 (6.8)	0.30 (0.08)	104.0 (27.2)	97.9 (21.6)	35.8 (7.9)	0.40 (0.09)	146.0 (32.2)	1.52 (1.13)	0.59 (0.44)	0.003 (0.002)	1.12 (0.83)
11	44.7 (16.8)	16.4 (6.1)	0.19 (0.07)	65.1 (24.4)	59.6 (20.0)	21.8 (7.3)	0.25 (0.08)	89.1 (29.9)	1.09 (1.11)	0.42 (0.43)	0.002 (0.002)	0.80 (0.82)
12	27.1 (7.7)	9.9 (2.8)	0.11 (0.03)	39.4 (11.2)	36.6 (7.0)	13.4 (2.6)	0.15 (0.03)	54.7 (10.4)	1.87 (2.94)	0.72 (1.13)	0.004 (0.006)	1.38 (2.17)
13	34.1 (10.5)	12.5 (3.9)	0.14 (0.04)	49.6 (15.3)	49.2 (11.8)	18.0 (4.3)	0.20 (0.05)	73.7 (17.6)	2.63 (2.15)	1.02 (0.83)	0.005 (0.004)	1.94 (1.58)
14	32.6 (15.0)	11.9 (5.5)	0.14 (0.06)	47.5 (21.8)	43.0 (13.0)	15.7 (4.8)	0.18 (0.05)	64.5 (19.5)	3.23 (2.69)	1.25 (1.04)	0.007 (0.006)	2.39 (1.99)
15	32.2 (6.1)	11.8 (2.2)	0.14 (0.03)	46.8 (8.9)	38.6 (7.7)	14.1 (2.8)	0.16 (0.03)	57.9 (11.6)	3.73 (3.08)	1.44 (1.19)	0.008 (0.006)	2.76 (2.28)
16	54.3 (13.5)	19.9 (5.0)	0.23 (0.06)	79.0 (19.7)	69.3 (23.6)	25.3 (8.6)	0.28 (0.10)	104.0 (35.5)	5.05 (3.00)	1.95 (1.16)	0.011 (0.006)	3.73 (2.22)
17	47.0 (10.1)	17.2 (3.7)	0.20 (0.04)	68.4 (14.7)					2.51 (2.81)	0.97 (1.08)	0.005 (0.006)	1.86 (2.08)
18	47.8 (9.4)	17.5 (3.5)	0.20 (0.04)	69.6 (13.7)	51.1 (7.3)	18.7 (2.7)	0.21 (0.03)	77.1 (11.0)	1.81 (1.55)	0.70 (0.60)	0.004 (0.003)	1.34 (1.15)
19	39.5 (9.4)	14.4 (3.4)	0.17 (0.04)	57.5 (13.6)	44.5 (9.5)	16.3 (3.5)	0.18 (0.04)	67.2 (14.3)	2.04 (2.49)	0.79 (0.96)	0.004 (0.005)	1.51 (1.85)
20	41.0 (6.8)	15.0 (2.5)	0.17 (0.03)	59.8 (9.9)	42.0 (10.6)	15.4 (3.9)	0.17 (0.04)	63.5 (16.1)	1.39 (1.52)	0.53 (0.59)	0.003 (0.003)	1.03 (1.13)
21	39.1 (6.8)	14.3 (2.5)	0.16 (0.03)	56.9 (9.9)	38.3 (5.2)	14.0 (1.9)	0.16 (0.02)	58.1 (7.8)	1.76 (1.29)	0.68 (0.50)	0.004 (0.003)	1.31 (0.96)
22	34.9 (5.7)	12.8 (2.1)	0.15 (0.02)	50.8 (8.4)	33.3 (6.2)	12.2 (2.3)	0.14 (0.03)	50.4 (9.4)	0.63 (0.95)	0.24 (0.37)	0.001 (0.002)	0.47 (0.71)
23	49.1 (8.6)	18.0 (3.2)	0.21 (0.04)	71.5 (12.6)	48.1 (9.1)	17.6 (3.3)	0.20 (0.04)	72.7 (13.7)	1.21 (6.76)	0.47 (2.61)	0.003 (0.014)	0.90 (5.02)
24	57.4 (13.4)	21.0 (4.9)	0.24 (0.06)	83.6 (19.5)	63.2 (9.8)	23.1 (3.6)	0.26 (0.04)	95.5 (14.7)	2.50 (3.09)	0.97 (1.19)	0.005 (0.006)	1.86 (2.29)
25	46.5 (8.7)	17.0 (3.2)	0.20 (0.04)	67.8 (12.6)	66.5 (15.4)	24.3 (5.7)	0.27 (0.06)	100.0 (23.3)	4.24 (2.85)	1.63 (1.10)	0.009 (0.006)	3.14 (2.11)
26	48.7 (6.5)	17.8 (2.4)	0.21 (0.03)	70.8 (9.5)	58.5 (11.4)	21.4 (4.2)	0.24 (0.05)	88.0 (17.1)	3.43 (2.64)	1.32 (1.02)	0.007 (0.005)	2.54 (1.96)
27	49.6 (9.4)	18.1 (3.5)	0.21 (0.04)	72.2 (13.7)	47.8 (9.9)	17.5 (3.6)	0.20 (0.04)	71.8 (14.9)	0.82 (1.35)	0.32 (0.52)	0.002 (0.003)	0.61 (1.00)
28	53.6 (9.4)	19.6 (3.4)	0.23 (0.04)	78.0 (13.6)	45.6 (8.0)	16.7 (2.9)	0.19 (0.03)	68.5 (12.0)	1.70 (2.61)	0.66 (1.01)	0.004 (0.005)	1.26 (1.93)
29	49.1 (9.6)	18.0 (3.5)	0.21 (0.04)	71.5 (14.0)	49.8 (10.8)	18.2 (3.9)	0.21 (0.04)	74.7 (16.1)	3.84 (4.99)	1.48 (1.92)	0.008 (0.010)	2.83 (3.68)
30	57.7 (6.8)	21.1 (2.5)	0.24 (0.03)	84.0 (9.9)	49.8 (8.1)	18.2 (2.9)	0.21 (0.03)	74.5 (12.1)	1.56 (2.20)	0.60 (0.85)	0.003 (0.005)	1.15 (1.63)
31	62.9 (22.3)	23.0 (8.2)	0.27 (0.09)	91.4 (32.4)	51.0 (9.1)	18.7 (3.3)	0.21 (0.04)	76.4 (13.6)	2.80 (15.00)	1.08 (5.77)	0.006 (0.031)	2.07 (11.00)
Avg	47.3	17.3	0.20	68.8	53.6	19.6	0.22	80.3	2.29	0.89	0.005	1.69
n	30	30	30	30	30	30	30	30	31	31	31	31
SD	11.0	4.0	0.05	16.0	18.9	6.9	0.08	28.2	1.06	0.41	0.002	0.79
Min	27.1	9.9	0.11	39.4	31.7	11.6	0.13	47.2	0.63	0.24	0.001	0.47
Max	72.7	26.6	0.30	106.0	124.0	45.2	0.51	184.0	5.05	1.95	0.011	3.73

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for September, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	48.5 (14.4)	17.7 (5.3)	0.20 (0.06)	70.5 (20.9)	43.5 (7.4)	15.9 (2.7)	0.18 (0.03)	65.1 (11.1)	2.57 (2.61)	0.99 (1.01)	0.005 (0.005)	1.89 (1.92)
2	45.4 (10.1)	16.6 (3.7)	0.19 (0.04)	65.9 (14.7)	43.9 (8.9)	16.1 (3.3)	0.18 (0.04)	65.7 (13.4)	3.14 (2.88)	1.21 (1.11)	0.007 (0.006)	2.31 (2.13)
3	36.1 (13.3)	13.2 (4.9)	0.15 (0.06)	52.3 (19.3)	43.8 (11.7)	16.0 (4.3)	0.18 (0.05)	65.6 (17.5)	4.00 (3.45)	1.54 (1.33)	0.008 (0.007)	2.94 (2.54)
4	47.8 (8.9)	17.5 (3.3)	0.20 (0.04)	69.3 (13.0)	43.7 (7.5)	16.0 (2.8)	0.18 (0.03)	65.3 (11.3)	2.86 (2.96)	1.10 (1.14)	0.006 (0.006)	2.10 (2.18)
5	46.1 (7.4)	16.8 (2.7)	0.19 (0.03)	66.8 (10.7)	46.9 (8.8)	17.2 (3.2)	0.19 (0.04)	70.1 (13.1)	1.50 (1.69)	0.58 (0.65)	0.003 (0.004)	1.11 (1.24)
6	60.4 (12.5)	22.1 (4.6)	0.26 (0.05)	87.5 (18.1)	57.6 (12.4)	21.1 (4.5)	0.24 (0.05)	86.0 (18.5)	2.46 (3.21)	0.95 (1.24)	0.005 (0.007)	1.81 (2.36)
7	67.4 (12.4)	24.7 (4.5)	0.29 (0.05)	97.8 (18.0)	66.5 (11.4)	24.3 (4.2)	0.27 (0.05)	99.2 (17.0)	2.40 (2.41)	0.93 (0.93)	0.005 (0.005)	1.77 (1.77)
8	80.1 (13.7)	29.3 (5.0)	0.34 (0.06)	116.0 (19.9)	54.2 (10.0)	19.8 (3.7)	0.22 (0.04)	80.7 (14.9)	2.56 (3.41)	0.99 (1.32)	0.005 (0.007)	1.88 (2.51)
9	67.5 (31.0)	24.7 (11.3)	0.29 (0.13)	98.0 (44.9)	56.2 (9.6)	20.6 (3.5)	0.23 (0.04)	83.6 (14.3)	2.83 (3.20)	1.09 (1.23)	0.006 (0.007)	2.08 (2.35)
10	55.1 (7.1)	20.2 (2.6)	0.23 (0.03)	80.0 (10.3)	55.7 (8.5)	20.4 (3.1)	0.23 (0.04)	82.7 (12.6)	2.00 (2.10)	0.77 (0.81)	0.004 (0.004)	1.47 (1.54)
11	48.6 (8.8)	17.8 (3.2)	0.21 (0.04)	70.6 (12.8)	48.6 (6.2)	17.8 (2.3)	0.20 (0.03)	72.0 (9.2)	2.67 (3.28)	1.03 (1.27)	0.006 (0.007)	1.96 (2.41)
12	36.9 (12.8)	13.5 (4.7)	0.16 (0.05)	53.6 (18.7)	39.3 (4.6)	14.4 (1.7)	0.16 (0.02)	58.4 (6.9)	3.54 (4.05)	1.37 (1.56)	0.007 (0.008)	2.60 (2.97)
13	57.6 (11.2)	21.1 (4.1)	0.24 (0.05)	83.6 (16.3)	62.0 (18.5)	22.7 (6.8)	0.26 (0.08)	92.3 (27.6)	3.82 (4.08)	1.47 (1.57)	0.008 (0.009)	2.80 (3.00)
14	65.8 (22.0)	24.1 (8.1)	0.28 (0.09)	95.6 (32.0)	45.3 (31.1)	16.6 (11.4)	0.19 (0.13)	67.6 (46.4)	4.18 (6.23)	1.61 (2.40)	0.009 (0.013)	3.08 (4.58)
15	55.4 (13.1)	20.3 (4.8)	0.23 (0.06)	80.4 (19.0)	56.2 (13.1)	20.6 (4.8)	0.23 (0.05)	84.0 (19.6)	3.15 (3.93)	1.21 (1.51)	0.007 (0.008)	2.32 (2.89)
16	43.9 (7.9)	16.1 (2.9)	0.19 (0.03)	63.7 (11.5)	42.2 (6.1)	15.4 (2.3)	0.17 (0.03)	63.3 (9.2)	1.58 (1.55)	0.61 (0.60)	0.003 (0.003)	1.16 (1.15)
17	43.0 (9.5)	15.7 (3.5)	0.18 (0.04)	62.4 (13.8)	37.7 (5.8)	13.8 (2.1)	0.16 (0.02)	56.6 (8.7)	2.69 (2.42)	1.04 (0.94)	0.006 (0.005)	1.99 (1.79)
18												
19	41.9 (7.3)	15.3 (2.7)	0.18 (0.03)	60.9 (10.6)	37.5 (5.0)	13.7 (1.8)	0.16 (0.02)	56.6 (7.6)	1.43 (1.54)	0.55 (0.60)	0.003 (0.003)	1.06 (1.14)
20	66.9 (15.4)	24.5 (5.6)	0.28 (0.07)	97.2 (22.4)	58.1 (19.9)	21.2 (7.3)	0.24 (0.08)	87.5 (29.9)	1.67 (1.86)	0.65 (0.72)	0.003 (0.004)	1.24 (1.38)
21	87.1 (20.8)	31.9 (7.6)	0.37 (0.09)	127.0 (30.2)	76.6 (15.3)	28.0 (5.6)	0.32 (0.06)	115.0 (23.0)	5.15 (4.48)	1.99 (1.73)	0.011 (0.009)	3.81 (3.31)
22	69.2 (29.6)	25.3 (10.8)	0.29 (0.13)	101.0 (43.2)	67.4 (19.9)	24.6 (7.3)	0.28 (0.08)	101.0 (29.8)	8.45 (9.12)	3.26 (3.52)	0.018 (0.019)	6.25 (6.75)
23	51.9 (10.6)	19.0 (3.9)	0.22 (0.05)	75.9 (15.4)	48.3 (9.2)	17.7 (3.4)	0.20 (0.04)	72.4 (13.9)	4.56 (4.10)	1.76 (1.58)	0.010 (0.009)	3.37 (3.03)
24	54.1 (10.6)	19.8 (3.9)	0.23 (0.05)	79.2 (15.5)	52.9 (6.6)	19.4 (2.4)	0.22 (0.03)	79.3 (9.9)	2.59 (14.00)	1.00 (5.42)	0.005 (0.029)	1.92 (10.40)
25	56.3 (6.8)	20.6 (2.5)	0.24 (0.03)	82.5 (9.9)	52.3 (7.1)	19.1 (2.6)	0.22 (0.03)	78.2 (10.7)	1.59 (2.00)	0.61 (0.77)	0.003 (0.004)	1.17 (1.48)
26	60.1 (11.4)	22.0 (4.2)	0.26 (0.05)	88.1 (16.7)	49.4 (10.1)	18.1 (3.7)	0.20 (0.04)	73.8 (15.1)	3.44 (10.30)	1.33 (3.97)	0.007 (0.022)	2.55 (7.62)
27	76.0 (11.7)	27.8 (4.3)	0.32 (0.05)	111.0 (17.1)	63.6 (11.8)	23.3 (4.3)	0.26 (0.05)	94.7 (17.5)	3.02 (4.92)	1.16 (1.90)	0.006 (0.010)	2.23 (3.64)
28	67.4 (21.3)	24.7 (7.8)	0.29 (0.09)	98.9 (31.2)	56.2 (16.1)	20.6 (5.9)	0.23 (0.07)	83.5 (24.0)	1.99 (1.92)	0.77 (0.74)	0.004 (0.004)	1.47 (1.41)
29	57.7 (16.9)	21.1 (6.2)	0.25 (0.07)	84.6 (24.8)	36.0 (6.7)	13.2 (2.5)	0.15 (0.03)	53.4 (10.0)	1.58 (2.34)	0.61 (0.90)	0.003 (0.005)	1.17 (1.73)
30	50.5 (13.5)	18.5 (4.9)	0.21 (0.06)	74.0 (19.8)	30.1 (4.3)	11.0 (1.6)	0.13 (0.02)	44.5 (6.4)	0.50 (0.82)	0.19 (0.32)	0.001 (0.002)	0.37 (0.60)
Avg	56.7	20.7	0.24	82.6	50.7	18.6	0.21	75.8	2.89	1.12	0.006	2.13
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	12.4	4.5	0.05	18.2	10.4	3.8	0.04	15.7	1.47	0.57	0.003	1.08
Min	36.1	13.2	0.15	52.3	30.1	11.0	0.13	44.5	0.50	0.19	0.001	0.37
Max	87.1	31.9	0.37	127.0	76.6	28.0	0.32	115.0	8.45	3.26	0.018	6.25

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for October, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	49.6 (13.3)	18.2 (4.9)	0.21 (0.06)	72.8 (19.4)	34.8 (5.3)	12.7 (1.9)	0.14 (0.02)	51.2 (7.8)	1.58 (1.64)	0.61 (0.63)	0.003 (0.003)	1.16 (1.20)
2	49.6 (13.1)	18.1 (4.8)	0.21 (0.06)	72.7 (19.3)	42.2 (11.4)	15.4 (4.2)	0.18 (0.05)	62.1 (16.8)	1.64 (1.60)	0.63 (0.62)	0.003 (0.003)	1.21 (1.17)
3	53.4 (10.6)	19.5 (3.9)	0.23 (0.05)	78.4 (15.5)	36.3 (5.5)	13.3 (2.0)	0.15 (0.02)	53.2 (8.1)	1.46 (1.04)	0.56 (0.40)	0.003 (0.002)	1.07 (0.76)
4	69.7 (12.3)	25.5 (4.5)	0.30 (0.05)	103.0 (18.2)	43.4 (6.9)	15.9 (2.5)	0.18 (0.03)	63.6 (10.2)	2.79 (2.80)	1.07 (1.08)	0.006 (0.006)	2.05 (2.06)
5	80.0 (23.3)	29.2 (8.5)	0.34 (0.10)	118.0 (34.3)	49.9 (6.9)	18.3 (2.5)	0.21 (0.03)	73.1 (10.1)	3.19 (9.31)	1.23 (3.59)	0.007 (0.020)	2.35 (6.86)
6	63.7 (18.5)	23.3 (6.8)	0.27 (0.08)	94.4 (27.3)	46.8 (9.1)	17.1 (3.3)	0.19 (0.04)	68.6 (13.3)	4.21 (2.64)	1.62 (1.02)	0.009 (0.006)	3.10 (1.94)
7	54.9 (10.1)	20.1 (3.7)	0.23 (0.04)	81.6 (15.0)	37.2 (5.1)	13.6 (1.9)	0.15 (0.02)	54.4 (7.5)	3.39 (2.42)	1.31 (0.94)	0.007 (0.005)	2.50 (1.79)
8	58.0 (12.0)	21.2 (4.4)	0.25 (0.05)	86.6 (18.0)	32.7 (4.2)	12.0 (1.5)	0.14 (0.02)	47.9 (6.2)	4.81 (5.66)	1.86 (2.18)	0.010 (0.012)	3.55 (4.18)
9	60.4 (13.7)	22.1 (5.0)	0.26 (0.06)	90.4 (20.5)	42.7 (7.0)	15.6 (2.6)	0.18 (0.03)	62.3 (10.2)	2.54 (2.64)	0.98 (1.02)	0.005 (0.006)	1.88 (1.95)
10	56.7 (20.5)	20.8 (7.5)	0.24 (0.09)	85.1 (30.8)	36.6 (4.0)	13.4 (1.5)	0.15 (0.02)	53.4 (5.8)	3.16 (3.12)	1.22 (1.20)	0.007 (0.007)	2.34 (2.30)
11	48.6 (10.1)	17.8 (3.7)	0.21 (0.04)	72.8 (15.0)	42.7 (5.9)	15.6 (2.2)	0.18 (0.02)	62.1 (8.5)	3.50 (3.95)	1.35 (1.52)	0.007 (0.008)	2.58 (2.91)
12	76.0 (16.6)	27.8 (6.1)	0.32 (0.07)	114.0 (24.8)	54.1 (4.3)	19.8 (1.6)	0.22 (0.02)	78.4 (6.2)	4.13 (4.39)	1.59 (1.69)	0.009 (0.009)	3.04 (3.23)
13	77.0 (24.3)	28.1 (8.9)	0.33 (0.10)	115.0 (36.3)	48.7 (9.1)	17.8 (3.3)	0.20 (0.04)	70.4 (13.2)	4.88 (4.99)	1.88 (1.92)	0.010 (0.011)	3.58 (3.66)
14	74.7 (11.7)	27.3 (4.3)	0.32 (0.05)	111.0 (17.5)	40.5 (6.5)	14.8 (2.4)	0.17 (0.03)	58.4 (9.5)	3.47 (2.35)	1.34 (0.91)	0.007 (0.005)	2.54 (1.72)
15	64.9 (13.4)	23.7 (4.9)	0.28 (0.06)	96.4 (19.9)	42.6 (4.8)	15.6 (1.8)	0.18 (0.02)	61.1 (6.9)	4.90 (4.63)	1.89 (1.78)	0.010 (0.010)	3.58 (3.37)
16	59.1 (13.6)	21.6 (5.0)	0.25 (0.06)	87.7 (20.2)	38.6 (8.0)	14.1 (2.9)	0.16 (0.03)	55.2 (11.4)	7.53 (5.76)	2.91 (2.22)	0.016 (0.012)	5.49 (4.20)
17	71.7 (13.9)	26.2 (5.1)	0.31 (0.06)	106.0 (20.5)	49.8 (6.2)	18.2 (2.3)	0.21 (0.03)	71.2 (8.9)	5.40 (10.60)	2.08 (4.10)	0.011 (0.022)	3.92 (7.73)
18	103.0 (11.2)	37.8 (4.1)	0.44 (0.05)	152.0 (16.5)	67.8 (6.3)	24.8 (2.3)	0.28 (0.03)	97.1 (9.0)	8.73 (6.50)	3.36 (2.51)	0.018 (0.014)	6.34 (4.72)
19	115.0 (24.5)	42.1 (9.0)	0.49 (0.11)	169.0 (36.1)	73.5 (9.4)	26.9 (3.4)	0.31 (0.04)	105.0 (13.4)	13.80 (6.85)	5.31 (2.64)	0.029 (0.014)	10.00 (4.97)
20	96.9 (31.0)	35.4 (11.4)	0.41 (0.13)	142.0 (45.6)	78.0 (26.4)	28.5 (9.7)	0.32 (0.11)	112.0 (37.9)	18.20 (5.71)	7.01 (2.20)	0.038 (0.012)	13.20 (4.14)
21	68.7 (15.4)	25.1 (5.6)	0.29 (0.07)	100.0 (22.6)	49.2 (12.3)	18.0 (4.5)	0.20 (0.05)	70.7 (17.7)	19.20 (6.46)	7.40 (2.49)	0.040 (0.014)	13.90 (4.68)
22	69.0 (15.7)	25.2 (5.7)	0.30 (0.07)	101.0 (22.9)	55.6 (15.4)	20.3 (5.6)	0.23 (0.06)	79.9 (22.1)	8.57 (7.68)	3.30 (2.96)	0.018 (0.016)	6.20 (5.56)
23					50.3 (12.8)	18.4 (4.7)	0.21 (0.05)	72.4 (18.4)	6.44 (4.10)	2.48 (1.58)	0.014 (0.009)	4.66 (2.97)
24					42.2 (8.9)	15.4 (3.3)	0.18 (0.04)	60.7 (12.8)	5.07 (3.27)	1.96 (1.26)	0.011 (0.007)	3.66 (2.37)
25	96.6 (10.6)	35.3 (3.9)	0.41 (0.05)	140.0 (15.4)	51.4 (12.2)	18.8 (4.5)	0.21 (0.05)	73.8 (17.5)	8.69 (4.91)	3.35 (1.89)	0.018 (0.010)	6.28 (3.54)
26												
27												
28	82.8 (15.8)	30.3 (5.8)	0.36 (0.07)	120.0 (23.0)	51.0 (14.9)	18.6 (5.5)	0.21 (0.06)	73.0 (21.3)	8.95 (7.64)	3.45 (2.95)	0.019 (0.016)	6.45 (5.51)
29	79.2 (13.7)	29.0 (5.0)	0.34 (0.06)	115.0 (20.0)	53.3 (9.8)	19.5 (3.6)	0.22 (0.04)	76.3 (14.0)	9.48 (6.12)	3.66 (2.36)	0.020 (0.013)	6.84 (4.42)
30	71.2 (18.4)	26.0 (6.7)	0.31 (0.08)	104.0 (26.8)	43.2 (26.7)	15.8 (9.8)	0.18 (0.11)	61.8 (38.2)	11.00 (6.80)	4.26 (2.62)	0.023 (0.014)	7.96 (4.90)
31					45.0 (10.6)	16.5 (3.9)	0.19 (0.04)	64.3 (15.1)	5.79 (4.41)	2.23 (1.70)	0.012 (0.009)	4.18 (3.18)
Avg	71.2	26.0	0.30	105.0	47.6	17.4	0.20	68.8	6.43	2.48	0.014	4.68
n	26	26	26	26	29	29	29	29	29	29	29	29
SD	16.9	6.2	0.07	24.5	10.6	3.9	0.04	14.9	4.46	1.72	0.009	3.22
Min	48.6	17.8	0.21	72.7	32.7	12.0	0.14	47.9	1.46	0.56	0.003	1.07
Max	115.0	42.1	0.49	169.0	78.0	28.5	0.32	112.0	19.20	7.40	0.040	13.90

Table F13. Daily means (SD) of ammonia emissions at site IN2B for November, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1	88.2 (10.1)	32.2 (3.7)	0.38 (0.04)	129.0 (14.8)	48.9 (7.2)	17.9 (2.6)	0.20 (0.03)	70.0 (10.4)	8.34 (6.75)	3.22 (2.60)	0.018 (0.014)	6.03 (4.88)
2	90.5 (20.4)	33.1 (7.5)	0.39 (0.09)	133.0 (29.8)	53.6 (10.3)	19.6 (3.8)	0.22 (0.04)	76.7 (14.8)	8.54 (7.63)	3.29 (2.94)	0.018 (0.016)	6.18 (5.52)
3	76.1 (15.7)	27.8 (5.8)	0.33 (0.07)	112.0 (23.1)	38.1 (7.8)	13.9 (2.9)	0.16 (0.03)	54.6 (11.2)	5.34 (6.03)	2.06 (2.33)	0.011 (0.013)	3.87 (4.38)
4	83.4 (17.3)	30.5 (6.3)	0.36 (0.07)	123.0 (25.4)	41.9 (4.6)	15.3 (1.7)	0.17 (0.02)	60.1 (6.6)	13.90 (8.53)	5.35 (3.29)	0.029 (0.018)	10.10 (6.20)
5	85.0 (19.8)	31.1 (7.2)	0.37 (0.09)	125.0 (29.1)	37.0 (4.1)	13.5 (1.5)	0.15 (0.02)	53.2 (5.9)	5.65 (5.64)	2.18 (2.17)	0.012 (0.012)	4.11 (4.10)
6	87.0 (20.9)	31.8 (7.6)	0.37 (0.09)	129.0 (30.9)	51.7 (10.8)	18.9 (3.9)	0.22 (0.05)	74.3 (15.5)	13.40 (13.30)	5.18 (5.11)	0.028 (0.028)	9.80 (9.67)
7	67.9 (19.6)	24.8 (7.2)	0.29 (0.08)	101.0 (29.0)	56.1 (12.8)	20.5 (4.7)	0.23 (0.05)	80.7 (18.4)	4.18 (2.10)	1.61 (0.81)	0.009 (0.004)	3.05 (1.53)
8	57.3 (11.0)	20.9 (4.0)	0.25 (0.05)	85.2 (16.4)	48.3 (9.0)	17.7 (3.3)	0.20 (0.04)	69.3 (12.9)	14.40 (12.00)	5.56 (4.62)	0.031 (0.025)	10.50 (8.75)
9	82.9 (16.8)	30.3 (6.1)	0.36 (0.07)	124.0 (25.0)	60.7 (10.7)	22.2 (3.9)	0.25 (0.04)	87.1 (15.3)	8.28 (6.98)	3.19 (2.69)	0.018 (0.015)	6.05 (5.10)
10	72.7 (14.7)	26.6 (5.4)	0.31 (0.06)	109.0 (22.0)	56.4 (10.6)	20.6 (3.9)	0.24 (0.04)	80.9 (15.1)	4.40 (7.28)	1.70 (2.81)	0.009 (0.015)	3.22 (5.33)
11	64.1 (18.3)	23.4 (6.7)	0.28 (0.08)	96.0 (27.4)	45.4 (6.3)	16.6 (2.3)	0.19 (0.03)	65.0 (9.0)	2.87 (4.05)	1.11 (1.56)	0.006 (0.009)	2.10 (2.97)
12	66.0 (12.8)	24.1 (4.7)	0.28 (0.06)	99.2 (19.2)	46.4 (5.4)	17.0 (2.0)	0.19 (0.02)	66.3 (7.7)	1.50 (1.33)	0.58 (0.51)	0.003 (0.003)	1.10 (0.97)
13	66.3 (12.4)	24.2 (4.5)	0.29 (0.05)	99.9 (18.7)	47.4 (5.9)	17.3 (2.2)	0.20 (0.03)	67.7 (8.5)	3.14 (3.63)	1.21 (1.40)	0.007 (0.008)	2.30 (2.66)
14	69.7 (13.3)	25.5 (4.9)	0.30 (0.06)	105.0 (20.2)	49.2 (9.7)	18.0 (3.6)	0.21 (0.04)	70.3 (13.9)	7.18 (3.66)	2.77 (1.41)	0.015 (0.008)	5.26 (2.68)
15	67.0 (5.8)	24.5 (2.1)	0.29 (0.03)	100.0 (8.6)	48.8 (3.9)	17.9 (1.4)	0.20 (0.02)	69.7 (5.6)	1.20 (2.15)	0.47 (0.83)	0.003 (0.005)	0.88 (1.57)
16	88.6 (18.2)	32.4 (6.6)	0.38 (0.08)	132.0 (27.2)	55.1 (8.2)	20.1 (3.0)	0.23 (0.03)	78.6 (11.7)	1.28 (2.13)	0.50 (0.82)	0.003 (0.005)	0.93 (1.55)
17	77.4 (21.6)	28.3 (7.9)	0.33 (0.09)	114.0 (32.1)	60.7 (7.9)	22.2 (2.9)	0.25 (0.03)	86.6 (11.3)	1.75 (2.64)	0.68 (1.02)	0.004 (0.006)	1.27 (1.91)
18	71.7 (13.4)	26.2 (4.9)	0.31 (0.06)	105.0 (19.8)	54.6 (14.6)	20.0 (5.3)	0.23 (0.06)	78.0 (20.8)	2.22 (3.42)	0.86 (1.32)	0.005 (0.007)	1.61 (2.47)
19	78.0 (14.5)	28.5 (5.3)	0.34 (0.06)	114.0 (21.3)	48.5 (8.4)	17.7 (3.1)	0.20 (0.04)	69.3 (12.0)	2.38 (1.67)	0.92 (0.64)	0.005 (0.004)	1.72 (1.21)
20	87.6 (21.3)	32.0 (7.8)	0.38 (0.09)	127.0 (31.1)	60.0 (7.4)	21.9 (2.7)	0.25 (0.03)	85.7 (10.5)	3.09 (2.48)	1.19 (0.96)	0.007 (0.005)	2.23 (1.79)
21	78.4 (17.5)	28.7 (6.4)	0.34 (0.08)	114.0 (25.4)	55.9 (8.0)	20.4 (2.9)	0.23 (0.03)	79.9 (11.4)	8.50 (7.44)	3.28 (2.87)	0.018 (0.016)	6.12 (5.35)
22	97.5 (9.3)	35.6 (3.4)	0.42 (0.04)	141.0 (13.5)	65.7 (13.0)	24.0 (4.7)	0.27 (0.05)	94.0 (18.6)	2.85 (3.01)	1.10 (1.16)	0.006 (0.006)	2.05 (2.17)
23	115.0 (23.0)	41.9 (8.4)	0.50 (0.10)	166.0 (33.3)	72.7 (11.2)	26.6 (4.1)	0.30 (0.05)	104.0 (16.0)	1.43 (1.85)	0.55 (0.71)	0.003 (0.004)	1.03 (1.33)
24	101.0 (16.9)	36.8 (6.2)	0.44 (0.07)	146.0 (24.5)	63.4 (13.8)	23.2 (5.0)	0.26 (0.06)	90.9 (19.7)	2.85 (3.44)	1.10 (1.33)	0.006 (0.007)	2.06 (2.48)
25	88.5 (16.5)	32.4 (6.1)	0.38 (0.07)	128.0 (24.0)	46.5 (8.6)	17.0 (3.1)	0.19 (0.04)	66.8 (12.3)	3.89 (2.90)	1.50 (1.12)	0.008 (0.006)	2.81 (2.09)
26	86.4 (18.8)	31.6 (6.9)	0.37 (0.08)	125.0 (27.3)	42.4 (6.9)	15.5 (2.5)	0.18 (0.03)	61.0 (10.0)	1.91 (1.47)	0.74 (0.57)	0.004 (0.003)	1.38 (1.06)
27	82.9 (17.2)	30.3 (6.3)	0.36 (0.08)	120.0 (25.0)	41.2 (6.4)	15.1 (2.4)	0.17 (0.03)	59.3 (9.2)	1.81 (1.75)	0.70 (0.67)	0.004 (0.004)	1.31 (1.26)
28	76.8 (13.7)	28.1 (5.0)	0.33 (0.06)	112.0 (19.8)	40.7 (8.6)	14.9 (3.1)	0.17 (0.04)	59.2 (12.2)	3.14 (2.58)	1.21 (1.00)	0.007 (0.005)	2.28 (1.87)
29	92.9 (10.5)	34.0 (3.8)	0.40 (0.05)	135.0 (15.2)	41.8 (7.9)	15.3 (2.9)	0.18 (0.03)	62.1 (11.8)	2.24 (2.08)	0.86 (0.80)	0.005 (0.004)	1.64 (1.53)
30	105.0 (20.5)	38.5 (7.5)	0.46 (0.09)	153.0 (29.8)	46.2 (7.2)	16.9 (2.6)	0.19 (0.03)	70.0 (10.7)	1.50 (1.54)	0.58 (0.59)	0.003 (0.003)	1.12 (1.14)
Avg	81.7	29.9	0.35	120.0	50.8	18.6	0.21	73.1	4.77	1.84	0.010	3.47
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	12.8	4.7	0.06	17.7	8.5	3.1	0.04	12.0	3.80	1.47	0.008	2.77
Min	57.3	20.9	0.25	85.2	37.0	13.5	0.15	53.2	1.20	0.47	0.003	0.88
Max	115.0	41.9	0.50	166.0	72.7	26.6	0.30	104.0	14.40	5.56	0.031	10.50

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Table F13. Daily means (SD) of ammonia emissions at site IN2B for December, 2009.

Day	House 8				House 9				Manure shed			
	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$g \cdot d^{-1} AU^{-1}$	$kg \cdot d^{-1}$	$g \cdot d^{-1} m^{2}$	$g \cdot d^{-1} hd^{-2}$	$kg \cdot d^{-1} AU^{-1}$
1					45.2 (13.8)	16.5 (5.0)	0.19 (0.06)	69.9 (21.0)	1.91 (1.06)	0.74 (0.41)	0.004 (0.002)	1.43 (0.79)
2	72.7 (12.8)	26.6 (4.7)	0.32 (0.06)	106.0 (18.6)	31.3 (4.8)	11.5 (1.8)	0.13 (0.02)	49.5 (7.5)	1.84 (2.70)	0.71 (1.04)	0.004 (0.006)	1.40 (2.05)
3	70.6 (12.9)	25.8 (4.7)	0.31 (0.06)	103.0 (18.8)	27.1 (6.1)	9.9 (2.2)	0.11 (0.03)	43.8 (9.7)	2.21 (1.96)	0.85 (0.75)	0.005 (0.004)	1.69 (1.50)
4	64.0 (29.7)	23.4 (10.9)	0.28 (0.13)	93.3 (43.3)	25.3 (6.9)	9.3 (2.5)	0.11 (0.03)	41.9 (11.1)	1.60 (1.12)	0.62 (0.43)	0.003 (0.002)	1.24 (0.87)
5	35.8 (9.0)	13.1 (3.3)	0.16 (0.04)	52.2 (13.1)	24.5 (3.2)	9.0 (1.2)	0.10 (0.01)	41.0 (5.4)	2.56 (3.46)	0.99 (1.33)	0.005 (0.007)	1.99 (2.70)
6	42.4 (9.1)	15.5 (3.3)	0.18 (0.04)	61.7 (13.3)	22.8 (4.3)	8.3 (1.6)	0.10 (0.02)	38.1 (7.2)	4.55 (5.57)	1.76 (2.15)	0.010 (0.012)	3.55 (4.33)
7	77.9 (19.8)	28.5 (7.2)	0.34 (0.09)	113.0 (28.8)	22.2 (3.9)	8.1 (1.4)	0.09 (0.02)	37.2 (6.5)	3.02 (4.36)	1.16 (1.68)	0.006 (0.009)	2.35 (3.39)
8	99.2 (12.2)	36.3 (4.5)	0.43 (0.05)	144.0 (17.8)	22.8 (4.5)	8.3 (1.7)	0.10 (0.02)	38.2 (7.6)	2.23 (3.48)	0.86 (1.34)	0.005 (0.007)	1.73 (2.71)
9									3.25 (3.33)	1.25 (1.28)	0.007 (0.007)	2.53 (2.59)
10	72.2 (10.9)	26.4 (4.0)	0.31 (0.05)	105.0 (15.8)					2.32 (1.44)	0.90 (0.56)	0.005 (0.003)	1.81 (1.12)
11	84.7 (19.2)	31.0 (7.0)	0.37 (0.08)	123.0 (27.8)	24.8 (6.0)	9.1 (2.2)	0.10 (0.03)	41.6 (10.1)	4.38 (4.49)	1.69 (1.73)	0.009 (0.010)	3.40 (3.49)
12	85.2 (9.3)	31.2 (3.4)	0.37 (0.04)	123.0 (13.4)	27.0 (2.9)	9.9 (1.1)	0.11 (0.01)	45.2 (4.8)	12.50 (8.81)	4.82 (3.40)	0.027 (0.019)	9.70 (6.84)
13					33.5 (4.8)	12.3 (1.8)	0.14 (0.02)	56.2 (8.0)	12.40 (10.00)	4.80 (3.87)	0.027 (0.021)	9.66 (7.79)
14	126.0 (18.7)	46.1 (6.9)	0.55 (0.08)	182.0 (27.1)	28.2 (11.0)	10.3 (4.0)	0.12 (0.05)	47.4 (18.4)	17.10 (17.00)	6.59 (6.54)	0.037 (0.036)	13.30 (13.20)
15	101.0 (33.2)	37.1 (12.1)	0.44 (0.14)	146.0 (47.9)	15.5 (2.1)	5.7 (0.8)	0.07 (0.01)	26.0 (3.5)	3.82 (3.88)	1.47 (1.50)	0.008 (0.008)	2.96 (3.01)
16	75.5 (11.4)	27.6 (4.2)	0.33 (0.05)	109.0 (16.5)	22.7 (3.1)	8.3 (1.1)	0.10 (0.01)	38.1 (5.3)	4.87 (5.25)	1.88 (2.03)	0.010 (0.011)	3.78 (4.08)
17	81.8 (11.0)	29.9 (4.0)	0.36 (0.05)	118.0 (15.8)	24.4 (3.4)	8.9 (1.2)	0.10 (0.01)	41.1 (5.7)	11.80 (6.60)	4.55 (2.54)	0.025 (0.014)	9.16 (5.12)
18					40.0 (9.1)	14.6 (3.3)	0.17 (0.04)	67.4 (15.3)	10.50 (13.20)	4.04 (5.08)	0.022 (0.028)	8.13 (10.20)
19					64.8 (4.5)	23.7 (1.6)	0.27 (0.02)	109.0 (7.4)	12.40 (9.66)	4.78 (3.72)	0.027 (0.021)	9.60 (7.48)
20					86.4 (7.5)	31.6 (2.8)	0.36 (0.03)	144.0 (12.3)	6.21 (6.32)	2.40 (2.44)	0.013 (0.014)	4.79 (4.88)
21					67.2 (34.2)	24.6 (12.5)	0.28 (0.14)	111.0 (56.9)	3.12 (2.88)	1.20 (1.11)	0.007 (0.006)	2.40 (2.21)
22	107.0 (25.7)	39.0 (9.4)	0.47 (0.11)	153.0 (36.9)	49.3 (6.4)	18.0 (2.4)	0.21 (0.03)	81.0 (10.5)	3.33 (3.02)	1.28 (1.16)	0.007 (0.006)	2.55 (2.32)
23	91.7 (9.4)	33.5 (3.4)	0.40 (0.04)	132.0 (13.5)	76.9 (10.1)	28.1 (3.7)	0.32 (0.04)	125.0 (16.3)	6.83 (4.12)	2.63 (1.59)	0.015 (0.009)	5.22 (3.14)
24	101.0 (13.9)	36.9 (5.1)	0.44 (0.06)	145.0 (20.0)	74.4 (35.6)	27.2 (13.0)	0.31 (0.15)	121.0 (58.0)	4.89 (3.53)	1.89 (1.36)	0.011 (0.008)	3.73 (2.69)
25	114.0 (19.9)	41.8 (7.3)	0.50 (0.09)	164.0 (28.6)	63.7 (8.0)	23.3 (2.9)	0.27 (0.03)	102.0 (12.8)	16.70 (10.10)	6.44 (3.88)	0.036 (0.022)	12.70 (7.63)
26	105.0 (21.0)	38.3 (7.7)	0.46 (0.09)	151.0 (30.1)	76.9 (10.2)	28.1 (3.7)	0.32 (0.04)	123.0 (16.2)	22.40 (10.40)	8.62 (4.03)	0.048 (0.022)	17.00 (7.92)
27	125.0 (14.9)	45.7 (5.5)	0.55 (0.07)	182.0 (21.6)	117.0 (10.2)	42.8 (3.7)	0.49 (0.04)	185.0 (15.9)	9.14 (10.70)	3.53 (4.11)	0.020 (0.023)	6.93 (8.08)
28	133.0 (20.2)	48.8 (7.4)	0.58 (0.09)	195.0 (29.3)	92.2 (51.1)	33.7 (18.7)	0.39 (0.22)	145.0 (80.9)	2.93 (2.72)	1.13 (1.05)	0.006 (0.006)	2.23 (2.06)
29	114.0 (20.6)	41.7 (7.5)	0.50 (0.09)	168.0 (30.0)	58.9 (9.0)	21.5 (3.3)	0.25 (0.04)	92.0 (14.0)	5.63 (6.33)	2.17 (2.44)	0.012 (0.014)	4.27 (4.80)
30	105.0 (13.9)	38.3 (5.1)	0.46 (0.06)	155.0 (20.5)	88.0 (7.4)	32.2 (2.7)	0.37 (0.03)	137.0 (11.5)	14.70 (7.38)	5.66 (2.85)	0.032 (0.016)	11.10 (5.60)
31					75.7 (41.3)	27.7 (15.1)	0.32 (0.17)	117.0 (63.8)	5.76 (7.02)	2.22 (2.71)	0.012 (0.015)	4.37 (5.33)
Avg	90.6	33.2	0.40	132.0	49.3	18.0	0.21	79.8	7.00	2.70	0.015	5.38
n	23	23	23	23	29	29	29	29	31	31	31	31
SD	24.7	9.0	0.11	35.8	27.2	10.0	0.11	42.9	5.39	2.08	0.012	4.12
Min	35.8	13.1	0.16	52.2	15.5	5.7	0.07	26.0	1.60	0.62	0.003	1.24
Max	133.0	48.8	0.58	195.0	117.0	42.8	0.49	185.0	22.40	8.62	0.048	17.00

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Table F14. Airflow and emission data completeness.

Table F14. Airflow and emission data completeness (%) at site IN2B for January, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	53.9	53.9	53.9	53.9	0	5.7	0	0	0	0
2	100	100	52.7	52.7	52.7	52.7	0	0	0	0	0	0
3	100	100	100	100	100	100	0	0	0	0	0	0
4	94.2	94.2	89.6	64.7	89.6	64.8	0	32.2	0	0	0	0
5	100	100	99.3	99.3	99.3	99.3	0	99.3	0	0	0	0
6	100	100	100	100	100	100	0	99.4	0	0	0	0
7	100	100	100	100	100	100	0	100	0	0	0	0
8	100	100	100	100	100	100	0	100	0	0	0	0
9	99	99	98.3	98.3	98.3	98.3	0	98.3	0	0	0	0
10	100	100	100	100	100	100	0	99.5	0	0	0	0
11	97.4	97.4	94.8	94.8	94.8	94.8	36.4	86	0.1	0	0	0
12	100	100	100	100	100	100	100	99.2	0	0	0	0
13	99.7	99.7	99.7	99.7	99.7	99.7	99.7	71.3	0	0	0	0
14	100	100	100	100	100	100	10.1	0	0	0	0	0
15	100	100	100	100	100	100	0	0	0	0	0	0
16	89.2	89.2	89.2	89.2	89.2	89.2	39	39	0	0	0	0
17	97.7	97.7	90.5	90.5	90.5	90.5	76.8	77.9	0	0	0	0
18	96.3	96.3	82.6	83.1	82.6	83.1	0.4	14.7	0	0	0	0
19	100	100	46.1	46.1	46.1	46.1	0	0	0	0	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	100	0	0	0	0	0	0
22	100	100	100	100	100	100	24.3	0	0	0	0	0
23	93.8	93.8	93.8	93.8	93.8	93.8	0	0	0	0	0	0
24	97.6	97	77	77	97.6	97	0	0	0	0	0	0
25	100	100	99.7	99.7	99.7	99.7	0	0	0	0	0	0
26	100	100	100	100	100	100	38.5	37.2	0	0	0	0
27	100	100	99.4	99.4	99.4	99.4	17.6	17.6	0	0	0	0
28	100	100	100	100	100	100	70.9	70.9	0	0	0	0
29	100	100	100	100	100	100	57.4	93.2	0	0	0	0
30	100	100	100	100	100	100	0	0	0	0	0	0
31	98.7	98.7	97.9	76.8	97.9	76.9	0	0	0	0	0	0
Avg	98.8	98.8	92.4	90.9	93.1	91.6	18.4	40	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	2.4	2.4	14.7	15.7	14.5	15.5	30.6	42.6	0	0	0	0
Min	89.2	89.2	46.1	46.1	46.1	46.1	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0.1	0	0	0

Table F14. Airflow and emission data completeness (%) at site IN2B for February, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	0	0	0	0	70.8	70.8
2	100	100	100	100	100	100	0	0	0	0	48.5	54.5
3	100	100	100	100	100	100	0	0	0	0	47.6	6
4	100	100	100	100	100	100	0	0	0	0	52	0
5	100	100	100	100	99.9	99.9	0	0	0	0	5.6	16.3
6	98.5	98.5	98.5	98.5	98.5	98.5	0	0	0	0	97.6	97.8
7	98.8	98.8	92.1	91.4	92.1	92.8	0	0	0	0	98.1	97.3
8	54.9	54.9	17.9	17.9	18.1	18.1	21.4	20.1	0	0	8.7	8.7
9	100	100	56.9	56.2	57	56.3	98.3	100	0	0	0	0
10	100	100	100	100	100	100	4.3	4.3	0	0	0	0
11	77.4	77.4	74.5	70.4	74.5	70.4	0	0	0	0	0	0
12	63.5	63.5	52.6	59.6	52.8	59.7	0	0	0	0	0	0
13	100	100	100	100	100	100	0	0	0	0	0	0
14	100	100	100	100	100	100	37.7	0	0	0	0	0
15	99.9	99.9	99.9	99.9	99.9	99.9	22.4	0	0	0	0	0
16	100	100	100	100	100	100	43	0	0	0	0	0
17	100	100	100	100	100	100	97.8	0	0	0	0	0
18	99.9	99.9	99.9	99.9	99.9	99.9	68.8	0	0	0	0	0
19	99.6	99.6	99.6	99.6	99.6	99.6	0	0	0	0	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	97.3	96	97.3	96	97.3	96	0	0	0	0	0	0
22	83	83	73.8	73.1	73.8	73.1	28.9	0	0	0	0	0
23	65.9	65.9	62.7	62	62.8	62.2	20	0	0	0	0	0
24	99.7	99.7	99.7	99.7	99.7	99.7	49	0	0	0	0	0
25	100	100	100	100	100	100	99.8	0	0	0	0	0
26	100	100	100	100	100	100	83.6	0	0	0	0	0
27	99.2	99.2	99.2	99.2	99.2	99.2	0	0	0	0	0	0
28	73.1	73.1	60.4	60.4	60.6	60.6	0	0	0	0	0	0
29	98.8	94.9	98.8	94.9	98.8	94.9	59.9	0	0	0	0	0
Avg	93.4	93.2	89.1	88.9	89.1	89	25.3	4.3	0	0	14.8	12.1
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	12.9	12.8	20.1	19.9	20.1	19.8	34.1	18.5	0	0	29.5	28.2
Min	54.9	54.9	17.9	17.9	18.1	18.1	0	0	0	0	0	0
Max	100	100	100	100	100	100	99.8	100	0	0	98.1	97.8

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Table F14. Airflow and emission data completeness (%) at site IN2B for March, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	49.2	0	0	0	0	0
2	100	100	100	100	100	100	66.7	0	0	0	0	0
3	100	100	100	100	100	100	100	0	0	0	0	0
4	100	100	100	100	100	100	100	0	0	0	0	0
5	100	100	100	100	100	100	48.7	0	0	0	0	0
6	100	100	100	100	100	100	74.4	0	0	0	0	0
7	99.7	99.7	99.7	99.7	99.7	99.7	7.2	0	0	0	0	0
8	100	100	100	100	100	100	1.2	0	0	0	0	0
9	95.8	95.8	95.8	95.8	95.8	95.8	32.5	0	0	0	0	0
10	100	100	100	100	100	100	61.6	0	0	0	0	0
11	100	100	100	100	100	100	51.9	0	0	0	0	0
12	99.7	99.7	99.7	99.7	99.7	99.7	60.1	0	0	0	0	0
13	99.4	99.4	99.4	99.4	99.4	99.4	98.2	0	0	0	0	0
14	100	100	100	100	100	100	100	0	0	0	0	0
15	100	100	100	100	100	100	100	0	0	0	0	0
16	100	100	100	100	100	100	93	0	0	0	0	0
17	100	100	100	100	100	100	48.6	0	0	0	0	0
18	100	100	100	100	100	100	100	0	0	0	0	0
19	100	100	100	100	100	100	92.8	0	0	0	0	0
20	100	100	100	100	100	100	70.4	0	0	0	0	0
21	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0
22	100	100	100	100	100	100	0	0	0	0	0	0
23	100	100	100	100	100	100	0	0	0	0	0	0
24	100	100	100	100	100	100	0	0	0	0	0	0
25	100	100	100	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	100	0	0	0	0	0	0
27	99.3	76.5	99.3	76.5	99.3	76.5	0	0	0	0	0	0
28	100	46.5	100	46.5	100	46.5	0	0	0	0	0	0
29	100	95.2	100	95.2	100	95.2	0	0	0	0	0	0
30	100	100	100	100	100	100	0	0	0	0	0	0
31	100	100	100	100	100	100	0	0	0	0	0	0
Avg	99.8	97.2	99.8	97.2	99.8	97.2	43.8	0	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.7	10.2	0.7	10.2	0.7	10.2	40.5	0	0	0	0	0
Min	95.8	46.5	95.8	46.5	95.8	46.5	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	0	0	0	0	0

ED_001509B_00005068-00309

Table F14. Airflow and emission data completeness (%) at site IN2B for April, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
2	100	100	100	100	100	100	0	0	0	0	0	0
3	98.2	98.2	47.6	46.3	47.8	46.4	0	0	0	0	0	0
4	97.6	97.6	97.6	97.6	97.6	97.6	0	0	0	0	0	0
5	100	100	100	100	100	100	0	0	0	0	0	0
6	99.9	100	99.9	100	99.9	100	0	0	0	0	0	0
7	100	100	100	100	100	100	0	0	0	0	0	0
8	100	100	100	100	100	100	0	0	0	0	0	0
9	100	100	100	100	100	100	0	0	0	0	0	0
10	100	100	100	100	100	100	0	0	0	0	0	0
11	100	100	100	100	100	100	0	0	0	37	0	0
12	100	100	100	100	100	100	0	0	0	100	0	0
13	100	100	100	100	100	100	0	0	0	95.3	0	0
14	100	100	100	100	100	100	0	0	0	100	0	0
15	100	100	100	100	100	100	0	0	0	100	0	0
16	100	100	100	100	100	100	0	0	0	100	0	0
17	99.9	100	61.3	62.7	61.5	62.8	0	0	0	100	0	0
18	99	99	99	99	99	99	0	32.2	0	45.6	0	0
19	100	100	100	100	100	100	0	94.6	0	0	0	0
20	100	100	100	100	100	100	0	100	0	0	0	0
21	100	100	100	100	100	100	0	87.6	0	0	0	0
22	100	100	100	100	100	100	0	99	0	0	0	0
23	100	100	65.6	66.3	65.6	66.3	0	70.1	0	0	0	0
24	99.6	99.6	43.1	42.4	43.2	42.5	0	92.8	0	0	0	0
25	99.2	99.2	92.9	92.9	92.9	92.9	0	75.7	0	0	0	0
26	100	100	77.6	77.6	77.6	77.6	0	76.7	0	0	0	0
27	99.9	99.9	76.5	76.5	76.5	76.5	0	76.5	0	0	0	0
28	100	100	71.6	71.6	71.6	71.6	0	71.6	0	0	0	0
29	100	100	75.2	75.2	75.2	75.2	0	75.2	0	0	0	0
30	100	100	76.3	76.3	76.3	76.3	0	76.1	0	0	0	0
Avg	99.8	99.8	89.5	89.5	89.5	89.5	0	34.3	0	22.6	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.6	0.6	16.8	16.8	16.7	16.8	0	40.7	0	39.7	0	0
Min	97.6	97.6	43.1	42.4	43.2	42.5	0	0	0	0	0	0
Max	100	100	100	100	100	100	0	100	0	100	0	0

ED_001509B_00005068-00310

Table F14. Airflow and emission data completeness (%) at site IN2B for May, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	73.8	73.8	73.8	73.8	0	60.6	0	0	0	0
2	97.6	97.6	76.2	76.2	76.2	76.2	0	75.8	0	0	0	0
3	100	100	100	100	100	100	0	100	0	0	0	0
4	100	100	100	100	100	100	0	99.9	0	0	0	0
5	99.9	99.9	99.9	99.9	99.9	99.9	0	99.9	0	0	0	0
6	100	100	100	100	100	100	0	100	0	0	0	0
7	100	100	100	100	100	100	0	100	0	0	0	0
8	100	100	100	100	100	100	0	91.8	0	0	0	0
9	100	100	100	100	100	100	0	100	0	0	0	0
10	99.7	99.7	99.7	99.7	99.7	99.7	0	99.7	0	0	0	0
11	100	100	100	100	100	100	0	100	0	0	0	0
12	100	100	100	100	100	100	0	100	0	0	0	0
13	100	100	100	100	100	100	0	100	0	0	0	0
14	100	100	64.1	74.5	64.2	100	0	91	0	0	0	0
15	100	100	74.5	100	74.7	100	0	100	0	0	0	0
16	55.7	93.5	55.7	93.5	55.7	93.5	0	93	0	0	0	0
17	0	100	0	100	0	100	0	100	0	0	0	0
18	0	100	0	100	0	100	0	100	0	0	0	0
19	0	100	0	100	0	100	0	100	0	0	0	0
20	0	100	0	100	0	100	0	100	0	0	0	0
21	0	100	0	100	0	100	0	100	0	0	0	0
22	0	99.4	0	99.4	0	99.4	0	94.5	0	0	0	0
23	45.9	99.9	45.9	99.9	45.9	99.9	0	82.6	0	0	0	0
24	100	100	100	100	100	100	0	100	0	0	0	0
25	100	100	100	100	100	100	0	100	0	0	0	0
26	100	100	100	100	100	100	0	75.1	0	0	0	0
27	99.9	99.9	99.9	99.9	99.9	99.9	0	72.8	0	0	0	0
28	100	100	100	100	100	100	0	87.5	0	0	0	0
29	99.4	99.4	99.4	99.4	99.4	99.4	0	86.5	0	0	0	0
30	100	100	100	100	100	100	0	100	0	0	0	0
31	100	100	100	100	100	100	0	100	0	0	0	0
Avg	77.4	99.7	73.8	97.3	73.8	98.1	0	93.9	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	39.8	1.2	38.9	7.5	38.9	6.2	0	10.2	0	0	0	0
Min	0	93.5	0	73.8	0	73.8	0	60.6	0	0	0	0
Max	100	100	100	100	100	100	0	100	0	0	0	0

ED_001509B_00005068-00311

Table F14. Airflow and emission data completeness (%) at site IN2B for June, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	0	100	0	0	0	0
2	99.9	99.9	99.9	99.9	99.9	93.4	0	99.9	0	0	0	0
3	100	100	100	100	100	100	0	100	0	0	0	0
4	99.9	99.9	90.3	90.3	90.3	90.3	0	61.2	0	0	0	0
5	100	100	100	100	100	100	0	0	0	0	0	0
6	100	100	100	100	100	100	0	0	0	0	0	0
7	100	100	100	100	100	100	0	0	0	0	0	0
8	100	100	100	100	100	100	0	0	0	0	0	0
9	100	100	100	100	100	100	0	0	0	0	0	0
10	100	100	100	100	100	100	0	0	0	0	0	0
11	100	100	100	100	100	100	0	0	0	0	0	0
12	100	100	100	100	100	100	0	0	0	0	0	0
13	100	100	100	100	100	100	0	0	0	0	0	0
14	100	100	100	100	100	100	0	0	0	0	0	0
15	100	75.1	100	75.1	100	75.1	0	0	0	0	0	0
16	100	61	100	61	100	61	0	0	0	0	0	0
17	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	100	0	0	0	0	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	100	0	0	0	0	0	0
22	100	100	100	100	100	100	0	0	0	0	0	0
23	100	100	100	100	100	100	0	0	0	0	0	0
24	100	100	100	100	100	100	0	0	0	0	0	0
25	99.5	99.5	99.5	74	78.8	80.2	0	0	0	0	0	0
26	96.9	96.9	68.1	96.9	58.8	86.7	0	0	0	0	26.6	26.6
27	97.5	97.5	97.5	97.5	97.5	97.5	38.5	34	0	0	40.7	40.9
28	100	100	100	100	100	100	100	99.7	0	0	0	0
29	99.5	99.5	18.1	2.1	99.5	99.5	99.5	99.5	0	0	0	0
30	100	100	0	0	100	100	100	100	0	0	0	0
Avg	99.8	97.6	92.4	89.9	97.5	96.1	11.3	23.1	0	0	2.2	2.3
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.7	8.2	23.2	25.5	8.3	9	30.3	40.3	0	0	8.6	8.6
Min	96.9	61	0	0	58.8	61	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	40.7	40.9

ED_001509B_00005068-00312

Table F14. Airflow and emission data completeness (%) at site IN2B for July, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	99.9	100	0	0	99.9	100	99.9	100	0	0	0	0
2	99.9	99.9	0	0	99.9	99.9	87.4	87.4	0	0	0	0
3	100	100	0	0	100	100	100	100	0	0	0	0
4	100	100	0	0	100	100	100	100	0	0	0	0
5	100	100	0	0	100	100	100	100	0	0	0	0
6	100	100	0	0	100	100	100	100	0	0	0	0
7	100	100	0	0	100	100	99.9	99.9	0	0	0	0
8	88.6	88.6	0	0	78.6	79.3	80.6	80.8	0	0	0	0
9	34.9	34.9	0	0	21	31.1	34.9	34.9	0	0	0	0
10	100	100	0	0	100	100	81.4	89.3	0	0	0	0
11	100	100	0	0	100	100	99.9	99.9	0	0	0	0
12	80.8	80.8	0	0.1	77.6	78.3	80.8	80.8	0	0	0	0
13	40.2	40.2	0	0	37.1	36.4	40.2	40.2	0	0	0	0
14	100	100	0	0	100	100	100	100	0	0	0	0
15	100	100	0	0	100	100	89.7	89.7	0	0	0	0
16	100	100	0	0	100	100	79.3	79.3	0	0	0	0
17	100	100	0	0	100	100	95.8	95.8	0	0	0	0
18	83.8	83.8	0	0	54.3	54.3	74	73.7	0	0	0	0
19	100	100	0	0	100	83	100	100	0	0	0	0
20	100	100	0	0	100	100	100	100	0	0	0	0
21	100	100	0	0	100	100	100	100	0	0	0	0
22	100	100	0	0	100	100	100	100	0	0	0	0
23	100	100	13	26.8	74.7	74.7	62.3	62.3	0	0	0	0
24	100	100	100	100	100	100	0	0	0	0	0	0
25	100	100	100	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	100	0	0	0	0	0	0
28	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
29	100	100	100	100	100	100	0	0	0	0	0	0
30	100	100	100	74.5	100	100	0	0	0	0	0	0
31	100	100	100	100	100	100	0	0	0	0	0	0
Avg	94.5	94.5	26.2	25.8	91.7	91.5	64.7	65	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	15.7	15.7	43.6	42.3	19.5	18.4	41.4	41.5	0	0	0	0
Min	34.9	34.9	0	0	21	31.1	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

Table F14. Airflow and emission data completeness (%) at site IN2B for August, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	0	0	0	0	0	0
2	100	100	100	100	100	100	0	0	0	0	0	0
3	100	100	100	100	100	100	0	0	0	0	0	0
4	95.1	95.1	86.3	87	86.3	87	0	0	0	0	0	0
5	39.3	39.3	35.9	35.3	36	35.5	0	0	0	0	0	0
6	100	100	100	100	99.4	100	0	0	0	0	0	0
7	100	100	69.7	74.5	69.7	74.7	0	0	0	0	0	0
8	100	100	97.2	100	97.3	100	0	0	0	0	0	0
9	100	100	100	100	100	100	0	0	0	0	0	0
10	100	100	100	100	100	100	0	0	0	0	0	0
11	98.7	98.7	98.7	98.7	98.7	98.7	0	0	0	0	0	0
12	100	100	100	100	100	100	0	0	0	0	0	0
13	100	100	100	100	100	100	0	0	0	0	0	0
14	100	100	100	100	100	100	37.8	0	0	0	0	0
15	100	100	100	100	100	100	100	0	0	0	0	0
16	100	100	100	100	100	100	100	0	0	0	0	0
17	100	100	100	100	100	100	100	0	0	0	0	0
18	100	100	100	100	100	100	96.9	0	0	0	0	0
19	100	100	100	100	100	100	100	0	0	0	0	0
20	100	100	100	100	100	100	100	0	0	0	0	0
21	100	100	100	100	100	100	99.9	0	0	0	0	0
22	100	100	100	100	100	100	92.2	18.8	0	0	0	0
23	100	100	100	100	100	100	99.9	71.7	0	0	0	0
24	100	100	100	100	100	100	99.3	65.6	0	0	0	0
25	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
26	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	74.5	74.5	74.7	100	91.9	91.9	0	0	0	0
29	100	100	100	100	100	79.4	85.3	85.3	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	97.8	97.8	95.6	95.8	95.5	96	54.9	26.9	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	10.7	10.7	13	12.8	13	12.6	47.9	41.4	0	0	0	0
Min	39.3	39.3	35.9	35.3	36	35.5	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

Table F14. Airflow and emission data completeness (%) at site IN2B for September, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	100	81.9	0	0	0	0
2	99.9	99.9	99.9	99.9	99.9	99.9	99.9	80.1	0	0	0	0
3	100	100	100	100	100	100	97.8	97.7	0	0	0	0
4	100	100	100	100	100	100	89.6	89.6	0	0	0	0
5	100	100	100	100	100	100	95.8	95.8	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	57.3	57.3	49.6	33.6	49.6	33.6	54.6	54.4	0	0	0	0
9	21.1	21.1	9.9	0	10	0	21.1	21.1	0	0	0	0
10	64.5	64.5	59.7	15.3	59.9	15.6	64.5	64.5	0	0	0	0
11	100	100	99	99	99	99	85.3	85.4	0	0	0	0
12	98.9	98.9	98.9	98.9	94.7	98.9	90.4	90.4	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.2	0	0	0	0
17	100	100	93.6	92.9	93.6	94.3	100	100	0	0	0	0
18	66.7	66.7	62.5	61.8	62.6	61.9	63.4	63	0	0	0	0
19	100	100	100	100	100	100	93.3	93.3	0	0	0	0
20	100	100	100	100	100	100	99.7	99.3	0	0	0	0
21	100	100	100	100	100	100	100	99.4	0	0	0	0
22	99.7	99.7	99.7	99.7	99.7	99.7	87.6	86.9	0	0	0	0
23	99.7	99.7	99.7	99.7	99.7	99.7	91.2	92.6	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	99.9	99.9	99.9	99.9	99.9	99.9	98.4	99.9	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	99.9	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	99.9	22.5	99.9	22.5	99.9	22.5	99.9	22.5	0	0	0	0
Avg	93.6	91	92.4	87.4	92.3	87.5	91.1	87.2	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	17.5	21.6	20	28.5	19.9	28.5	17.5	21.2	0	0	0	0
Min	21.1	21.1	9.9	0	10	0	21.1	21.1	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table F14. Airflow and emission data completeness (%) at site IN2B for October, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	72.8	100	72.8	100	72.8	100	72.8	0	0	0	0
2	100	100	100	100	100	100	99.7	100	0	0	0	0
3	99	99	99	99	99	99	54.8	54.8	0	0	0	0
4	100	100	100	100	100	100	0	0	0	0	0	0
5	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
6	100	100	100	100	100	100	0	0	0	0	0	0
7	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0	0	0
8	100	100	100	100	100	100	0	0	0	0	0	0
9	100	100	100	100	100	100	46.7	46.5	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	100	100	100	100	100	100	100	98.2	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	93.2	93.2	0	0	0	0
16	100	100	100	100	100	100	81.6	33.3	0	0	0	0
17	100	100	100	100	100	100	100	0	0	0	0	0
18	100	100	100	100	100	100	100	0	0	0	0	0
19	100	100	100	100	100	100	100	0	0	0	0	0
20	100	100	100	100	100	100	100	0	0	0	0	0
21	99.9	99.9	99.9	74.6	99.9	99.9	99.9	0	0	0	0	0
22	98.3	97.7	98.3	97.7	98.3	97.7	98.2	0	0	0	0	0
23	100	100	100	100	100	100	85.8	48.9	0	0	0	0
24	100	100	100	100	100	100	99.9	99.9	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	99.7	99.7	99.7	99.7	99.7	99.7	91.1	91	0	0	0	0
29	100	100	100	100	100	100	92.9	92.9	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	99.9	99	99.9	98.2	99.9	99	78.8	55.9	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.3	4.8	0.3	6.5	0.3	4.8	36.7	44.9	0	0	0	0
Min	98.3	72.8	98.3	72.8	98.3	72.8	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

ED_001509B_00005068-00316

Table F14. Airflow and emission data completeness (%) at site IN2B for November, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	98	100	0	0	0	0
4	100	100	100	100	100	100	100	100	0	0	0	0
5	100	100	57.2	57.8	57.2	57.8	84.5	81.5	0	0	0	0
6	100	100	96.5	95.8	96.7	96	92.1	25.1	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	100	100	100	100	100	100	100	100	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	96.4	96.4	96.4	96.4	96.4	96.4	95	95	0	0	0	0
13	100	100	100	100	100	100	50.3	50.3	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	98.3	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	99.4	99.4	84.2	84.9	96.9	84.9	99.4	99.4	0	0	0	0
19	11.9	11.9	0	0	0	0	11.9	11.9	0	0	0	0
20	94.9	94.9	89.4	88.7	89.5	88.8	93	93	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0
25	100	100	100	100	100	100	83.3	83.3	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	92.4	100	92.4	100	92.4	100	90	100	0	0	0	0
28	77.2	100	77.2	100	77.2	99.5	77.2	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	30.4	31.8	100	100	0	0	0	0
Avg	95.7	96.7	93.1	94.1	91.2	91.8	92.4	91.3	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	16.1	15.8	19.5	19.3	22.4	22.2	18.1	21.8	0	0	0	0
Min	11.9	11.9	0	0	0	0	11.9	11.9	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

ED_001509B_00005068-00317

Table F14. Airflow and emission data completeness (%) at site IN2B for December, 2008

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	0	0	100	100	0	0	0	0
2	99.4	100	99.4	100	0	0.1	60.2	60.8	0	0	0	0
3	100	100	100	100	0	0	73.2	73.2	0	0	0	0
4	100	38.1	100	38.1	0	0	71.4	21.5	0	0	0	0
5	100	100	100	100	0	0	100	100	0	0	0	0
6	100	100	100	100	0	0	100	100	0	0	0	0
7	100	100	75.6	76.9	0	0	100	100	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	26	26	17.2	15.8	0	0	26	26	0	0	0	0
11	98.8	98.8	98.8	98.8	0	0	98.8	98.8	0	0	0	0
12	100	100	100	100	0	0	42.8	42.8	0	0	20.9	20.9
13	100	100	100	100	0	0	0	0	0	0	100	100
14	100	100	100	100	0	0	0	0	0	0	100	100
15	100	100	100	100	0	0	0	0	0	0	97.6	97.6
16	100	100	100	100	0.1	0.1	0	0	0	0	29	29
17	97.1	97.1	97.1	97.1	0	0	0	0	0	0	97.1	97.1
18	100	100	100	100	0	0	11	11	0	0	62	62
19	100	100	100	100	0	0	51.4	51.4	0	0	0	0
20	100	100	100	100	0	0	0	0	0	0	0	0
21	100	100	100	100	0	0	0	0	0	0	0	0
22	100	100	100	100	0	0	0	0	0	0	0	0
23	100	100	73.1	73.1	26.3	11.9	0	0	0	0	0	0
24	99.4	99.4	65.8	65.8	65.9	65.9	34.3	34.3	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	91.3	91.3	0	0	0	0
27	100	100	100	100	100	100	37	36.9	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	99.9	99.9	0	0	0	0
30	99.5	99.5	99.5	99.5	99.5	99.5	92.8	92.8	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	91	89	88	86	25.5	25.1	48.1	46.5	0	0	16.3	16.3
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	27.2	28.7	28.3	29.7	42	42.1	42.9	42.9	0	0	34	34
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	100	100

ED_001509B_00005068-00318

Table F14. Airflow and emission data completeness (%) at site IN2B for January, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	0	0	0	0	0	0
2	100	100	100	100	100	100	0	0	0	0	0	0
3	100	100	100	100	100	100	0	0	0	0	0	0
4	100	100	100	100	100	100	0	0	0	0	0	0
5	100	100	100	100	100	100	0	0	0	0	0	0
6	100	100	66.9	65.5	67	65.6	0	0	0	0	0	0
7	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
8	99.9	99.9	99.9	99.9	99.9	99.9	36.9	37.4	0	0	0	0
9	100	100	100	100	100	100	95.6	95.6	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	99.2	0	0	0	0
14	100	100	100	100	100	100	86.7	86.7	0	0	0	0
15	99.8	100	99.2	99.4	99.2	99.4	81.9	81.1	0	0	0	0
16	100	100	99.9	99.9	99.9	99.9	0	0	0	0	0	0
17	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	100	0	0	0	0	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	100	0	0	0	0	0	0
22	100	100	100	100	100	100	0	0	0	0	0	0
23	100	100	100	100	100	100	28.3	28.3	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
29	99.9	99.9	74.4	99.9	74.6	99.9	88.4	88.4	0	0	0	0
30	95.6	95.6	95.6	95.6	95.6	95.6	63	83.7	0	0	0	0
31	100	67.7	100	67.7	100	67.7	0	67.7	0	0	0	0
Avg	99.8	98.8	97.9	97.7	97.9	97.7	44.5	47.3	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0.8	5.7	7.3	8.2	7.2	8.2	46.1	45.8	0	0	0	0
Min	95.6	67.7	66.9	65.5	67	65.6	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

ED_001509B_00005068-00319

Table F14. Airflow and emission data completeness (%) at site IN2B for February, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	0	99.9	0	0	0	0
2	100	58.3	92.8	58.3	92.8	58.3	0	58.3	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	99.9	0	91.3	0	91.4	0	0	0	0	0	0	0
5	100	0	100	0	100	0	17.8	0	0	0	0	0
6	98.7	44.7	98.7	44.7	98.7	44.7	42.8	0	0	0	38.3	38.3
7	100	100	100	100	100	100	0	0	0	0	100	100
8	100	100	100	100	100	100	0	0	0	0	100	100
9	100	100	100	100	100	100	0	0	0	0	100	100
10	100	100	100	100	100	100	0	0	0	0	100	100
11	100	100	100	100	100	100	0	0	0	0	100	100
12	100	100	72.4	68.3	72.6	68.4	0	0	0	0	80.3	99.4
13	99.2	99.2	69.2	99.2	69.4	99.2	0	0	0	0	64.6	66.3
14	100	100	100	100	100	100	0	0	0	0	0	0
15	100	100	100	100	100	100	0	0	0	0	0	0
16	100	100	100	100	100	100	0	0	0	0	0	0
17	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	0	0	0	0	0	0
19	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	100	100	100	100	100	100	0	0	40.4	40.4	0	0
22	100	100	62.7	64.1	62.8	64.2	0	0	100	99.1	0	0
23	100	100	100	100	100	100	0	0	100	100	0	0
24	100	100	100	100	100	100	0	0	100	100	0	0
25	100	100	73	73	73.8	73.1	0	0	100	100	0	0
26	99.2	99.2	99.2	99.2	99.2	99.2	0	0	95.8	95.8	0	0
27	100	100	100	100	100	100	0	0	100	100	0	0
28	100	100	100	100	100	100	0	0	100	100	0	0
Avg	96.3	85.8	91.4	82.4	91.5	82.4	2.2	5.7	26.3	26.3	24.4	25.1
n	28	28	28	28	28	28	28	28	28	28	28	28
SD	18.5	32.2	20.6	32.3	20.6	32.2	8.5	21.1	42.9	42.8	40.3	41.4
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	42.8	99.9	100	100	100	100

Table F14. Airflow and emission data completeness (%) at site IN2B for March, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	99.9	99.9	99.9	99.9	99.9	99.9	0	0	99.9	99.7	0	0
2	100	100	100	100	100	100	0	0	100	100	0	0
3	100	100	100	100	100	100	0	0	100	100	0	0
4	100	100	100	100	100	100	0	0	99.7	100	0	0
5	100	100	100	100	100	100	0	0	100	100	0	0
6	99.1	99.1	99.1	99.1	99.1	99.1	33.1	33.1	55.8	55.8	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	100	100	100	100	100	100	100	100	0	0	0	0
10	100	100	100	100	100	100	99.7	99.9	0	0	0	0
11	100	100	100	100	100	100	99.3	100	0	0	0	0
12	100	100	100	100	100	100	87.6	91.6	0	0	0	0
13	99.9	99.9	99.9	99.9	99.9	99.9	97.2	97.2	0	0	0	0
14	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
15	100	100	100	100	100	100	84.4	100	0	0	0	0
16	100	100	100	100	100	100	97.2	100	0	0	0	0
17	100	100	100	100	100	100	99.8	100	0	0	0	0
18	92.6	92.4	92.6	57.5	92.6	57.6	86.5	86.4	0	0	0	0
19	99.2	99.2	49.7	50.4	50.6	59.6	99.2	99.2	0	0	0	0
20	99.9	99.9	74.7	61.5	74.9	74.7	96.3	94.8	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	89.6	89.6	0	0	0	0
23	100	100	100	100	100	100	99.9	99.9	0	0	0	0
24	100	100	100	100	100	100	92.5	93.1	0	0	0	0
25	100	100	100	100	100	100	97.8	97.8	0	0	0	0
26	100	100	100	100	100	100	93.9	99.9	0	0	0	0
27	99.6	99.6	49.1	45.6	49.1	46.3	98.8	98.8	0	0	0	0
28	98.7	98.7	17.4	11.3	17.6	11.4	98.7	98.7	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	89.9	91	0	0	0	0
Avg	99.6	99.6	93	91.1	93	91.9	78.8	79.7	17.9	17.9	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.3	1.4	18.9	21.4	18.8	20.3	36.5	36.9	37.3	37.3	0	0
Min	92.6	92.4	17.4	11.3	17.6	11.4	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	0	0

ED_001509B_00005068-00321

Table F14. Airflow and emission data completeness (%) at site IN2B for April, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	94.2	94.7	0	0	0	0
2	100	100	73.1	74.5	74	74.7	98.6	100	0	0	0	0
3	97.1	97.1	97.1	97.1	97.1	97.1	96.6	96.6	0	0	0	0
4	99.9	99.9	99.9	99.9	99.9	99.9	76.3	99.6	0	0	0	0
5	100	100	100	100	100	100	60.9	100	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	51.3	100	0	0	0	0
9	99.8	99.8	72.9	99.8	73.1	99.8	46.7	50.1	0	0	25.6	25.6
10	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0	99.7	99.7
11	100	100	100	100	100	100	0	0	0	0	100	100
12	100	100	100	100	100	100	0	0	0	0	100	100
13	100	100	100	100	100	100	0	0	0	0	100	100
14	100	100	100	100	100	100	0	0	0	0	97.8	100
15	100	100	100	100	100	100	0	0	0	0	25.8	100
16	100	100	100	100	100	100	0	0	0	0	0	53.2
17	98.5	98.3	71.4	61.5	71.5	61.6	0	34.9	0	0	0	0
18	100	100	100	100	100	100	0	100	0	0	0	0
19	100	100	100	100	100	100	0	100	0	0	0	0
20	100	100	100	100	100	100	0	100	0	0	0	0
21	100	100	100	100	100	100	0	100	0	0	0	0
22	100	100	100	100	100	100	23.2	89.2	0	0	0	0
23	95.5	95.5	95.5	95.5	95.5	95.5	84.9	85	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	97.4	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	93	93	93	93	93	93	63.5	63.5	0	0	0	0
Avg	99.4	99.4	96.8	97.4	96.8	97.4	49.9	70.4	0	0	18.3	22.6
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1.5	1.6	8.2	8.2	8.1	8.1	44.5	41.7	0	0	36.9	40
Min	93	93	71.4	61.5	71.5	61.6	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	100	100

ED_001509B_00005068-00322

Table F14. Airflow and emission data completeness (%) at site IN2B for May, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	100	98.5	0	0	0	0
2	100	100	100	100	100	100	54.7	54.7	0	0	0	0
3	99.6	99.6	99.6	99.6	99.6	99.6	0	0	0	0	0	0
4	100	100	100	100	100	100	0	0	0	0	0	0
5	100	100	98.1	98.1	98.1	98.1	12.8	13.3	0	0	0	0
6	100	100	100	100	100	100	99.9	100	0	0	0	0
7	93.7	93.7	93.7	93.7	93.7	93.7	81.3	81.9	0	0	0	0
8	100	100	100	100	100	100	99.5	100	0	0	0	0
9	100	100	100	100	100	100	100	100	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	99.8	99.8	99.8	99.8	99.8	99.8	99.6	99.6	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	98.4	98.4	98.4	98.4	98.4	98.4	88.6	88.6	0	0	0	0
14	99.7	96.5	99.7	96.5	99.7	96.5	96.9	95.1	0	0	0	0
15	91.7	91.7	91.7	91.7	91.7	91.7	89	91.7	0	0	0	0
16	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0
17	99.1	99.1	99.1	99.1	99.1	99.1	96.7	98.5	0	0	0	0
18	100	100	100	100	100	100	99.8	100	0	0	0	0
19	100	100	100	100	100	100	97.7	100	0	0	0	0
20	100	100	100	100	100	100	99.2	100	0	0	0	0
21	98.2	98.2	98.2	98.2	98.2	98.2	81.9	81.9	0	0	0	0
22	99.8	99.8	99.8	99.8	99.8	99.8	99.6	99.6	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	95.6	100	0	0	0	0
25	100	100	100	100	100	100	100	99.8	0	0	0	0
26	100	100	100	100	100	100	98.5	99.8	0	0	0	0
27	100	100	100	100	100	100	92	92	0	0	0	0
28	99.9	99.9	95.4	99.9	99.9	99.9	95.6	82.4	0	0	0	0
29	99	99	99	99	99	99	90.3	29.9	0	0	0	0
30	100	100	100	100	100	100	100	19.9	0	0	0	0
31	100	100	100	100	100	100	100	0	0	0	0	0
Avg	99.3	99.2	99.1	99.1	99.2	99.1	86.1	78.3	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.8	1.9	1.9	1.9	1.8	1.9	28.3	34.8	0	0	0	0
Min	91.7	91.7	91.7	91.7	91.7	91.7	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

ED_001509B_00005068-00323

Table F14. Airflow and emission data completeness (%) at site IN2B for June, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	99.9	17.6	0	0	0	0
2	100	100	100	100	100	100	0	0	0	0	0	0
3	100	100	100	100	100	100	100	46.9	0	0	0	0
4	99.1	99.1	78.1	99.1	78.2	99.1	52.2	51.7	0	0	11	11
5	100	100	100	100	100	100	0	0	0	0	99.2	99.2
6	100	100	100	100	100	100	0	0	0	0	100	100
7	100	100	100	100	100	100	0	0	0	0	90.1	90.1
8	100	100	100	100	100	100	0	0	0	0	100	100
9	100	69.4	100	69.4	100	69.4	0	0	0	0	100	69.4
10	100	100	100	100	100	100	0	0	0	0	100	100
11	99.2	99.2	52.4	51	58.8	51.2	0	0	0	0	99	99
12	98.2	98.2	98.2	98.2	98.2	98.2	0	0	56.6	56.5	31.3	31.3
13	100	100	100	100	100	100	0	0	100	100	0	0
14	100	100	100	100	100	100	0	0	100	100	0	0
15	100	99.8	100	99.8	100	99.8	0	0	100	99.8	0	0
16	100	100	100	100	100	100	0	0	100	100	0	0
17	100	99.9	100	99.9	100	99.9	0	0	99.2	99.9	0	0
18	98.8	98.6	98.8	98.6	98.8	98.6	0	0	93.4	93.3	0	0
19	100	96.8	100	96.8	100	96.8	0	0	99.4	96.8	0	0
20	100	100	100	100	100	100	0	0	100	100	0	0
21	100	100	100	100	100	100	0	0	100	100	0	0
22	100	100	100	100	100	100	0	0	100	100	0	0
23	98.8	98.8	98.8	98.8	98.8	98.8	0	0	98.8	98.8	0	0
24	99.9	99.9	79.1	99.9	99.9	99.9	0	0	91.7	91.7	0	0
25	82.9	80.7	21	21.7	37.7	34.2	0	0	82.9	80.7	0	0
26	86.9	86.9	20.1	18.6	44.9	41.6	36.5	36.5	50.4	50.4	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	99.9	99.9	60.9	56.7	99.9	99.9	99.9	99.9	0	0	0	0
29	99.4	99.4	0	0	99.4	99.4	97.7	98.5	0	0	0	0
30	100	100	0	0	100	100	0	0	0	0	0	0
Avg	98.8	97.6	83.6	83.6	93.8	92.9	19.5	15	45.7	45.6	24.4	23.3
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	3.8	6.6	31.2	31.6	16.3	17.8	37.5	31.3	47.1	46.9	41.3	39.7
Min	82.9	69.4	0	0	37.7	34.2	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	100	100

Table F14. Airflow and emission data completeness (%) at site IN2B for July, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	0	0	100	100	80.1	80.1	0	0	0	0
2	94.3	94.3	0	0	94.3	94.3	85.8	85.8	0	0	0	0
3	100	100	0	0	100	100	0	0	0	0	0	0
4	100	100	0	0	100	100	0	0	0	0	0	0
5	91.6	91.6	0	0	91.6	91.6	0	0	0	0	0	0
6	100	100	0	0	100	100	0	0	0	0	0	0
7	100	100	97.7	96.3	100	100	89.2	89.2	0	0	0	0
8	99.4	99.4	99.4	99.4	99.4	99.4	99.2	99.2	0	0	0	0
9	100	100	100	100	100	100	100	100	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	80.5	100	80.5	100	80.5	99.9	80.4	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	98.3	98.3	98.3	98.3	98.3	98.3	96.5	96.5	0	0	0	0
15	100	100	100	100	100	100	99.4	100	0	0	0	0
16	100	97.8	100	97.8	100	97.8	99	96.6	0	0	0	0
17	100	60.6	100	60.6	100	60.6	99.9	60.6	0	0	0	0
18	100	100	100	100	100	100	99.9	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	99.8	99.8	99.8	99.8	99.8	99.8	79.6	79.6	0	0	0	0
23	99.8	99.8	99.8	99.8	99.8	99.8	67.8	67.8	0	0	0	0
24	100	100	100	100	100	100	0	0	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	85.8	85.7	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	81.5	81.6	0	0	0	0
30	98.9	98.9	98.9	98.9	98.9	98.9	51.7	46.6	0	0	0	0
31	100	100	100	100	100	100	0	0	0	0	0	0
Avg	99.4	97.4	80.4	78.4	99.4	97.4	74.7	72.6	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	1.8	7.7	39.4	39.2	1.8	7.7	38.2	37.8	0	0	0	0
Min	91.6	60.6	0	0	91.6	60.6	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

Table F14. Airflow and emission data completeness (%) at site IN2B for August, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
2	99.9	99.9	99.9	99.9	99.9	99.9	99.8	99.9	0	0	0	0
3	100	100	100	100	100	100	98.8	100	0	0	0	0
4	100	100	100	100	100	100	94.9	97.3	0	0	0	0
5	100	100	100	100	100	100	100	100	0	0	0	0
6	99.9	99.9	99.9	99.9	99.9	99.9	87.8	87.8	0	0	0	0
7	81.9	81.9	69	81.9	69.2	81.9	81.9	81.9	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	100	100	100	100	100	100	100	100	0	0	0	0
10	100	100	100	100	100	100	99.8	99.8	0	0	0	0
11	100	89	100	89	100	89	100	89	0	0	0	0
12	99.9	100	99.9	100	99.9	100	99.9	100	0	0	0	0
13	100	100	100	100	100	100	81.7	83.1	0	0	0	0
14	100	100	100	100	100	100	77.2	69.1	0	0	15.3	15.3
15	100	100	100	100	100	100	0	0	0	0	99.9	100
16	100	100	100	100	100	100	0	0	0	0	100	100
17	100	73.1	100	73.1	100	73.1	0	0	0	0	100	73.1
18	100	80.8	100	80.8	100	80.8	0	0	0	0	98.3	80.8
19	100	100	100	100	100	100	0	0	0	0	100	100
20	99.7	99.7	99.7	99.7	99.7	99.7	29.5	29.7	0	0	64.4	64.4
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	99.8	100	0	0	0	0
23	100	100	100	100	100	100	99.4	100	0	0	0	0
24	100	100	100	100	100	100	99.9	99.9	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	95.1	95.1	95.1	95.1	64.3	74.2	0	0	0	0
28	99.9	99.7	99.9	99.7	99.9	99.7	89.2	37	0	0	0	0
29	99.9	99.9	99.9	99.9	99.9	99.9	99.6	0	0	0	0	0
30	100	100	100	100	100	100	100	0	0	0	0	0
31	96.3	96.3	96.3	96.3	96.3	96.3	95.9	0	0	0	0	0
Avg	99.3	97.4	98.7	97.3	98.7	97.3	77.4	66.1	0	0	18.6	17.2
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	3.2	6.6	5.5	6.6	5.5	6.6	36.8	42.4	0	0	37.4	34.6
Min	81.9	73.1	69	73.1	69.2	73.1	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	100	100

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Table F14. Airflow and emission data completeness (%) at site IN2B for September, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	100	0	0	0	0	0
2	100	100	100	100	100	100	100	0	0	0	0	0
3	100	100	100	100	100	100	0	0	0	0	0	0
4	87.2	87.2	87.2	87.2	87.2	87.2	0	0	0	0	0	0
5	100	100	100	100	100	100	0	0	0	0	0	0
6	100	100	100	100	100	100	0	0	0	0	0	0
7	100	100	100	100	100	100	0	0	0	0	0	0
8	99.9	96.4	99.9	96.4	99.9	96.4	0	0	0	0	0	0
9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
10	97.8	97.8	97.8	97.8	97.8	97.8	27.4	27.4	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	88.1	99.7	99.7	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	92	92	0	0	0	0
18	53.7	53.7	46.9	50.3	46.9	50.3	53.7	53.7	0	0	0	0
19	100	100	92.8	97	93	97.2	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	0	0	0	0	0	0
22	100	100	100	100	100	100	98.3	100	0	0	0	0
23	100	100	100	100	100	100	98.4	98.4	0	0	0	0
24	100	100	100	100	100	100	91.6	91.6	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	99.7	100	0	0	0	0
27	100	100	100	100	100	100	98	100	0	0	0	0
28	100	100	100	100	100	100	98.1	100	0	0	0	0
29	100	100	100	100	100	100	99.3	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
Avg	97.9	97.8	97.5	97.6	97.5	97.2	68.5	62.1	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	8.5	8.5	9.8	9.1	9.8	9.3	43.9	46.3	0	0	0	0
Min	53.7	53.7	46.9	50.3	46.9	50.3	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table F14. Airflow and emission data completeness (%) at site IN2B for October, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	98.8	98.8	98.8	75.7	98.8	75.8	92.3	92.3	0	0	0	0
2	99.6	99.6	99.6	99.6	99.6	99.6	98.2	98.2	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	100	100	100	100	100	0	0	0	0
5	100	100	100	100	100	100	99.8	100	0	0	0	0
6	100	100	100	100	100	100	99.5	100	0	0	0	0
7	100	100	100	100	100	100	98.5	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	100	99.8	100	99.8	100	99.8	34.9	34.9	0	0	61.7	61.5
10	100	100	100	100	100	100	0	0	0	0	100	100
11	100	100	100	100	100	100	0	0	0	0	99.3	100
12	100	100	100	100	100	100	0	0	0	0	100	100
13	100	100	100	100	100	100	0	0	0	0	100	100
14	100	100	100	100	100	100	0	0	0	0	91.6	91.6
15	99.6	99.6	99.6	99.6	99.6	99.6	0	0	0	0	99.6	99.6
16	100	100	100	100	100	100	50	49	0	0	48.9	48.3
17	100	100	100	100	100	100	100	99.9	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	99.4	97.9	0	0	0	0
21	100	100	100	100	100	100	89	89	0	0	0	0
22	99.9	99.9	99.9	99.9	99.9	99.9	99.6	99.9	0	0	0	0
23	21.6	94.2	21.6	94.2	21.6	94.2	21.6	94.2	0	0	0	0
24	17.4	100	17.4	100	17.4	100	17.4	100	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	73.8	73.8	71.9	67.7	71.9	67.7	71.5	73.8	0	0	0	0
27	67.2	67.2	62.7	59.2	62.8	59.4	50.8	52.4	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	92.7	100	92.7	100	92.7	100	92.6	100	0	0	0	0
31	71.5	100	71.5	100	71.5	100	71.5	100	0	0	0	0
Avg	91.7	97.8	91.5	96.6	91.5	96.6	67.3	73.6	0	0	22.6	22.6
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	20.8	7.3	21.1	9.8	21.1	9.8	40.5	39.5	0	0	39.6	39.6
Min	17.4	67.2	17.4	59.2	17.4	59.4	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	100	100

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Table F14. Airflow and emission data completeness (%) at site IN2B for November, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	100	100	100	100	100	100	99.4	99.4	0	0	0	0
2	100	100	100	100	100	100	99.9	100	0	0	0	0
3	100	100	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
4	100	100	100	100	100	100	100	99.9	0	0	0	0
5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0
6	100	100	100	100	100	100	89.8	55.5	0	0	0	0
7	100	100	100	100	100	100	100	0	0	0	0	0
8	100	100	100	100	100	100	99.9	0	0	0	0	0
9	100	100	100	100	100	100	97	0	0	0	0	0
10	100	100	100	100	100	100	97.5	0	0	0	0	0
11	100	100	100	100	100	100	100	0	0	0	0	0
12	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0
13	99.9	99.9	99.9	99.9	99.9	99.9	48.2	48.2	0	0	0	0
14	100	100	100	100	100	100	0	0	0	0	0	0
15	100	100	100	100	100	100	0	0	0	0	0	0
16	100	100	100	100	100	100	0	99.2	0	0	0	0
17	100	100	100	100	100	100	0	100	0	0	0	0
18	100	100	100	100	100	100	0	100	0	0	0	0
19	99.7	99.7	99.7	99.7	99.7	99.7	48.1	95.5	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	99.9	100	99.9	100	99.9	100	94	94.1	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
Avg	100	100	100	100	100	100	75.8	69.7	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0.1	0.1	0.1	0.1	0.1	0.1	40	43.7	0	0	0	0
Min	99.7	99.7	99.7	99.7	99.7	99.7	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

Table F14. Airflow and emission data completeness (%) at site IN2B for December, 2009

Day	Airflow		Ammonia		Hydrogen		PM_{10}		$PM_{2.5}$		TSP	
	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9	H8	H9
1	99.5	99.5	74.5	99.5	74.7	99.5	94.5	94.5	0	0	0	0
2	99.9	99.9	99.9	99.9	99.9	99.9	95	95	0	0	0	0
3	99.4	99.4	99.4	99.4	99.4	99.4	99.2	99.2	0	0	0	0
4	100	100	100	100	100	100	98.9	98.9	0	0	0	0
5	100	100	100	100	100	100	99.7	99.7	0	0	0	0
6	100	100	100	100	100	100	99.5	99.5	0	0	0	0
7	100	100	100	100	100	100	36.8	36.8	0	0	0	0
8	97.6	100	97.6	100	97.6	100	0	0	0	0	0	0
9	53.5	94.7	53.5	72.8	53.5	73	34.2	34.2	0	0	0	0
10	84	93.9	84	71.6	84	72.4	77.8	87.8	0	0	0	0
11	98.5	97.6	98.5	97.6	98.5	97.6	98.5	97.6	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	21.5	100	21.5	100	21.5	100	21.5	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	99.9	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	83.7	100	83.7	100	83.7	100	83.7	100	0	0	0	0
18	35.2	100	35.2	100	35.2	100	0	7.4	0	0	0	0
19	35.6	100	35.6	100	35.6	100	0	0	0	0	0	0
20	48.5	100	48.5	100	48.5	100	0	0	0	0	0	0
21	58.1	100	58.1	100	58.1	100	0	0	0	0	0	0
22	100	100	100	100	100	100	0	0	0	0	0	0
23	99.9	99.9	99.9	99.9	99.9	99.9	0	0	0	0	0	0
24	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0
25	100	100	100	100	100	100	0	0	0	0	0	0
26	100	100	100	100	100	100	0	0	0	0	0	0
27	100	100	100	100	100	100	0	0	0	0	0	0
28	100	100	100	100	100	100	0	0	0	0	0	0
29	100	100	100	100	100	100	0	0	0	0	0	0
30	99.8	99.8	99.8	99.8	99.8	99.8	0	0	0	0	0	0
31	45.1	100	45.1	100	45.1	100	0	0	0	0	0	0
Avg	85.8	99.5	85	98.1	85	98.1	43.2	46.8	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	24.3	1.4	24.3	6.8	24.3	6.7	45.9	47.3	0	0	0	0
Min	21.5	93.9	21.5	71.6	21.5	72.4	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0