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EMISSIONS DATA FROM TWO BROILER CHICKEN HOUSES IN CALIFORNIA

Final Report for Site CA1B

of the

National Air Emissions Monitoring Study

Submitted to

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July 2, 2010

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Acknowledgments

This project was supported by the National Chicken Council and the Agricultural Air Research Council.

Citation

Cortus, E.L., X.-J. Lin, R. Zhang, and A.J. Heber. 2010. National Air Emissions Monitoring Study: Emissions Data from Two Broiler Chicken Houses in California - Site CA1B. Final Report. Purdue University, West Lafayette, IN, July 2.

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1. INTRODUCTION AND OBJECTIVES

1.1. Overview of NAEMS

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

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

The overall objective of this report is to present the quality-assured measurements of ammonia (NH3), hydrogen sulfide (H2S), non-methane hydrocarbons (NMHC), ethanol (EtOH), particulate matter (PM) and volatile organic compounds (VOCs) from two broiler houses at the California chicken growout facility. The specific objectives of the report are to:

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

2. CONFINED ANIMAL FEEDING OPERATION

2.1. Farm

This 336,000-bird broiler ranch (CA1B) was located in California. Other livestock or poultry sources near the ranch were a hatchery just over 1.6 km west of the ranch, a 10-house broiler ranch approximately 1.2 km to the north-northwest, and a large dairy about 0.8 km to the northwest.

The production facility had a total capacity of 336,000 broiler chickens and consisted of 16 mechanically-ventilated houses that were oriented east-west (Figure 1). Birds were fed a pelleted corn and soy based diet. All litter was removed from the houses after three flocks, and taken off-site within 2-3 d of cleanout. Between each flock, the top 20 to 25% of the litter was removed the entire length of the house. Bird genetics were 60% Cobb, 40% Ross.

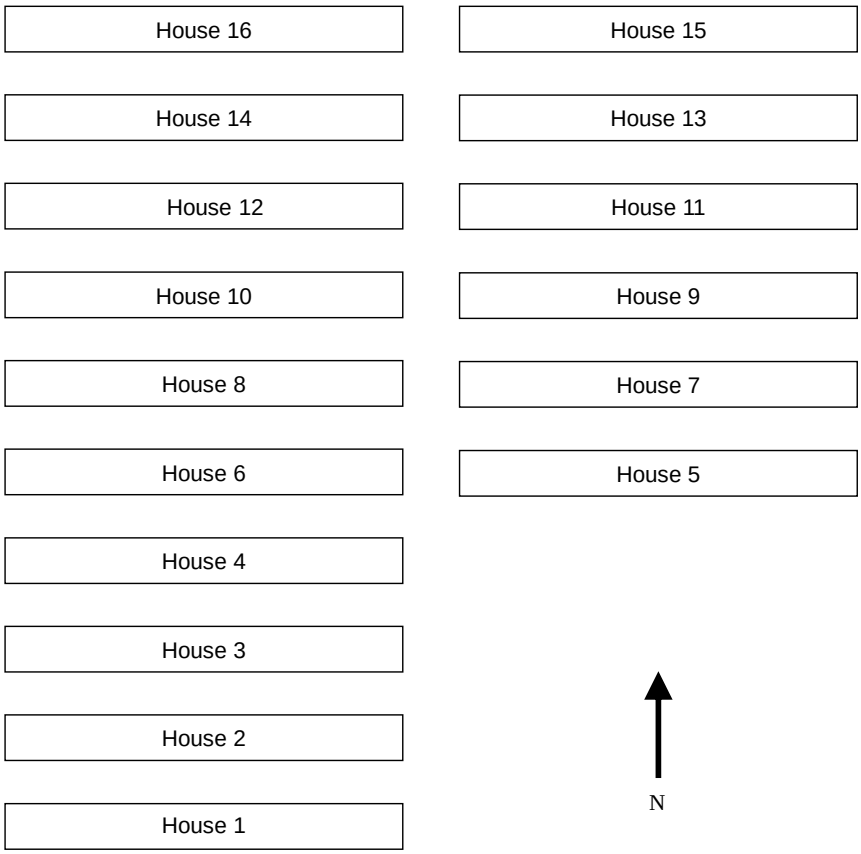

Figure 1. Facility layout. Monitored buildings were houses 10 and 12

2.2. **Monitored Buildings**

Houses 10 and 12 (H10 and H12) were spaced 12.2 m apart. The roofs had a 4:12 slope with sidewall heights of 2.3 m. Each house was 125 m long x 12.2 m wide and housed 21,000 birds that grew from 0.05 to 2.4 kg. Six to seven flocks of birds were raised in each house every year, and all houses were on the same grow-out cycle. During cooler weather, the front half of the house was heated by 12.3 kW Radiant Brooders, while the rest of the house was heated by 52.7 kW White Convection LP heaters. During warmer conditions, supplemental cooling was provided by evaporative pads, which were located at the east ends of the houses. These were Munters pads made of a paper product, and were 1.2 m high, 0.2 m deep and 0.3 m wide.

Birds were fed a pelleted diet consisting of corn, soybeans, protein, and poultry fat. Four feed rations were used, specially formulated for weeks 1 and 2, weeks 3 and 4, and week 5 and week 6. Feed was delivered by auger. Water consumption was recorded by an automatic water meter. The lights were shut off for several hours each night. A standby generator supplied power for critical systems during power outages.

Ventilation air entered the house through pressure-adjusted baffled air inlets at the eaves. The air was exhausted out the west end of the house where there were ten, 122-cm diameter belted

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exhaust fans (Model 48318-235, Chore-Time, Milford, IN) located in banks of five fans on the north and south sidewalls. The fans within each bank of fans on the north and south walls were 20 cm apart. The 122-cm fans were powered by 746-W fan motors (General Electric Model # 5KCR49UN0462AT). The five fans located on the south sidewall (Figure 2) were numbered 3 thorough 7, and the five fans located on the north wall were numbered 8 thorough 12. In addition, there was one 91-cm diameter belted exhaust fan (Model AT365Z1CP, Aerotech, Mason, MI) located on the west wall at the back of the house. This fan was designated as fan 2, and had a 373-W motor (Aerotech Model # 177509-01) (Figure 2). Finally, there was one other 91-cm diameter belted exhaust fan (Model AT365Z1CP, Aerotech, Mason, MI), designated fan 1, located on the east wall; however, this fan was disabled and inactive during the study. The house had six temperature sensors. Fan relay control regimes included eight strategies, which depended on the age of the birds and the maximum temperature. The transition temperature between strategies was 24ºC. Eight of the 10 fan relays controlled single fans, while relays 6 and 10 each controlled two 122-cm fans (Table 1).

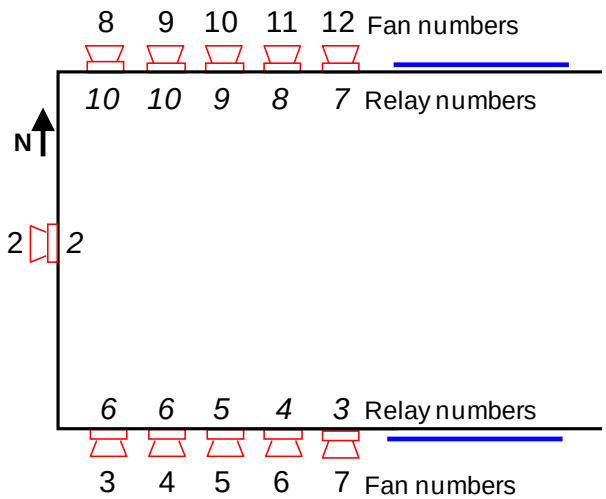

Figure 2. Relay assignments to control fans. Relays 6 and 10 each control two adjacent fans.

All litter was removed from the houses after three flocks, and was taken off-site to a fertilizer plant within 2-3 d (Table 2). Prior to being removed from the site, manure remained in piles to the west of the houses. Between each flock, the top 20 to 25% of the litter was removed the entire length of the house in a decaking operation using a commercial poultry litter cleanout machine (Housekeeper, Lewis Brothers, Baxley, GA). After decaking, the remaining litter at the front of the house was moved to the back of the house and 34.4 m^3 of rice hulls were placed in the front using a 3.8 m^3 Soil Mover. The birds were concentrated in the east end of the houses during the first 10 d of each cycle.

2.3. Significant Events and Modifications

Chicken genetics remained the same and there were no significant weather, management, or construction events that impacted the monitoring period.

The ventilation fans were maintained by the producer as required. On 4/20/08, the belts were replaced on all fans.

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Table 1. Fan relay control for the various stages of the eight temperature control regimes.

Fan relays running	% on	Scheme[1]							
		1	2	3	4	5	6	7	8
Tunnel Ventilation									
3,4,5,6,7,8,9,10									■
3,4,5,6,7,10									■
3,4,5,6,7,8									■
3,4,5,7,8,9								■	■
3,4,5,7,8							■	■	■
3,4,7,8						■	■		
3,4,7						■			
3,7					■				
3,2					■				
Power Ventilation									
3,4,5,7,8				■					■
3,4,5,6				■					
3,4,7,8						■	■	■	■
3,4,7,2						■			
3,4,7						■	■	■	■
3,7,5				■					
3,7,2				■					
3,7,2						■	■	■	
3,7						■	■	■	■
3,7	100		■	■					
3,7	80			■					
3,7	80								■
3,7	60							■	
3,2	100	■	■	■	■	■	■		
3,2	80					■	■		
3,2	75			■					
3,2	50			■		■	■		
3,2	35			■		■	■		
3,2	20			■					
3,2	10			■					
3,2	50	■	■						
3,2	30	■	■						
3	100	■	■		■				
3	75	■	■		■				
3	50	■	■		■				
3	35	■	■		■				
3	20	■	■		■				
3	10	■	■		■				

[1]Scheme numbers: 1 = Days 1-9, 2 = Days 10-28, 3 = Days 28-ship, 4 = Days 1-9 (T>24), 5 = Days 10-14 (T>24), 6 = Days 15-24 (T>24), 7 = Days 25-29 (T>24), 8 = Days 29-ship (T>24).

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Table 2. Flock and manure removal schedule.

Flock	Hatch date, m/d/y	Ship out date, m/d/y	Cycle length, d	Empty house, d	Manure cleanout method
1	09/20/07	11/4/2007	45	11	Load out
2	11/15/07	1/1/2008	48	4	Decaking
3	01/05/08	2/21/08	47	7	Decaking
4	02/28/08	4/15/08	47	7	Load out
5	04/22/08	6/6/08	45	8	Decaking
6	06/14/08	8/1/08	48	10	Decaking
7	08/11/08	9/27/08	47	23	Load out
8	10/20/08	12/4/08	45	8	Decaking
9	12/12/08	1/28/09	47	12	Decaking
10	02/09/09	3/28/09	46	13	Load out
11	04/10/09	5/27/09	47	8	Decaking
12	06/04/09	7/21/09	47	9	Decaking
13	07/30/09	9/14/09	46	12	Load out
14	09/26/09	11/10/09	45		
Mean			46	12	

3. MONITORING AND SAMPLING METHODS

3.1. General Approach

Equipment installation and preliminary testing began on 5/29/07 and was completed on 9/27/07. The site setup and equipment installation followed an approved site monitoring plan, a quality assurance project plan, and instrument or method-specific standard operating procedures.

The monitoring period began on 9/27/07 and concluded on 10/21/09. Target pollutants were NH_3, H_2S, NMHC, EtOH, PM (PM_{10}, TSP, and $PM_{2.5}$), and VOC. Appendix A lists the target pollutants, and all measured supporting variables and monitored metadata. The monitoring schemes for the two structures are shown in Figure 3. **Error! Reference source not found.** lists the major equipment.

3.2. Instrument Shelter

The on-farm instrument shelter (OFIS) was located at the far west end of the space between houses 10 and 12, with a north-south orientation to minimize interference with vehicular traffic along the driveway west of the houses. The OFIS was positioned off-center between the houses to provide access for mowing equipment. 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 3-wire, single-phase, 120/240-volt, 100 A at 240 V power by the farm. A copper ground rod was installed at the location of the OFIS and connected to the OFIS ground. The HVAC system of the OFIS maintained inside temperatures within the operating range of the analyzers, and created a positive pressure with a filtered outside air intake to minimize entry of unfiltered outside air.

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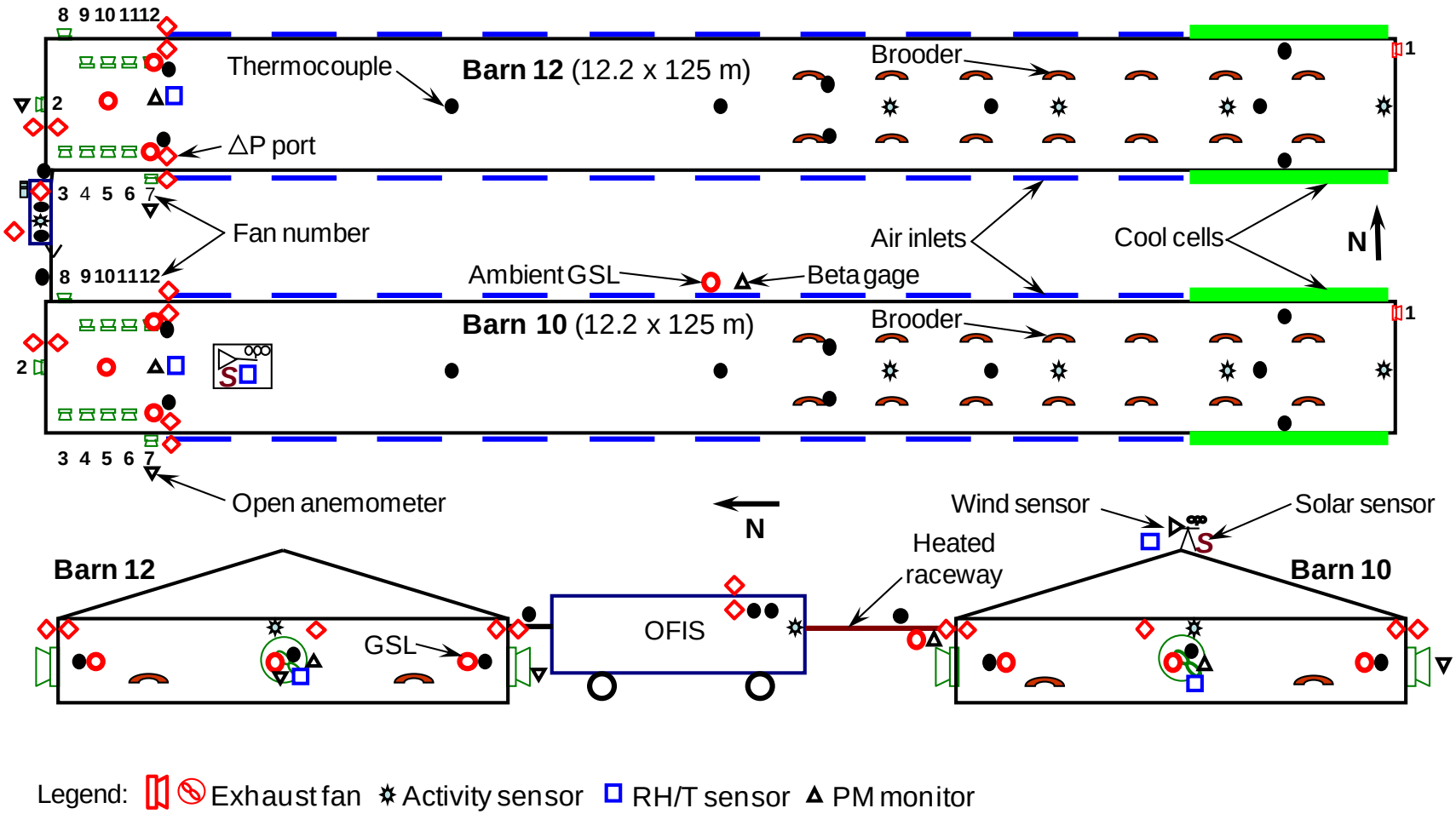

Figure 3. Overhead and endwall view of sensor and air sampling locations at the building monitoring site.

One set of gas analyzers () in the OFIS measured gas concentrations as the gas sampling system (GSS) sequenced through all the gas sampling locations (GSLs). Vacuum pumps and controllers for the PM monitors were located in the OFIS. A personal computer collected all site monitoring data using a data acquisition and control program AirDAC.

Table 3. Major instrumentation.

Analyzer/Instrument	Serial number
INNOVA 1412 Multi-gas analyzer	710-209
TEI 450i H_2S analyzer	709220684
Environics 4040 dilutor	3920
TEOM 1 (House 10)	263760609
TEOM 2 (House 12)	265160702
TEI FH 62C14 (Beta Gauge)	E-1300

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

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

Table 4. Data acquisition hardware configuration.

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

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

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3.4. Monitoring and Recording Farm and Building Operation

3.4.1. Animal Husbandry and Building Systems

Infrared motion detectors (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.

Data on animal inventory and mortalities were recorded manually and on a daily-basis by the producer, and provided to the site personnel. The average mass of the birds was measured at least weekly between 1 and 47 d of age, during three consecutive cycles of birds. For each measurement period, 25 or 50 birds of each gender (50 or 100 total) were measured in each house and the average mass reported.

Relays that control lights, brooders and feeders were monitored in each house, using auxiliary contacts in 5-VDC circuits in conjunction with the digital inputs of the data acquisition system.

3.4.2. Thermal Environment

Weather data was collected using a solar radiation shielded capacitance-type relative humidity and temperature probe (RH/T) (Model RHT-WM, Novus Automation, Porto Alegre, Brazil), a pyranometer (Model LI-200SL, LI-COR, Lincoln, NE) and a cup anemometer (Wind Sentry, RM Young, Traverse City, MI), which were mounted on a 1-m aluminum tower located on the ridge of house 10 near the OFIS.

For the building environmental conditions, RH/T sensors were located at the center of the west end of each house. Type T thermocouples (TCs) were used to measure temperatures at each sampling point not already monitored with a RH/T probe, and were also distributed with equal spacing along the center of each house. The TC's were attached to the support posts which ran down the center of the house at 3-m intervals. Two TCs were located next to the two brooders closest to the OFIS, and two were located at the center of the evaporative pads. A TC was added on 4/9/09 to monitor the manure temperature in house 12 at floor level.

Thermocouples were also located in the heated raceway between the houses and OFIS. Two TCs were located in the OFIS to measure the temperature of the OFIS and the air-conditioning system. One TC monitored the temperature conditions in the ambient PM monitor enclosure.

3.4.3. Building Airflow

Fan rotational speed and operational status was monitored using a magnetic Hall-effect sensors (speed sensor) installed on each fan except inactive fan #1. The speed sensors were mounted to detect the rotational speed in revolutions per minute (rpm) of either the fan shaft or the fan pulley. The digital signal from the speed sensor was converted into a frequency measurement with a counter module in the data acquisition system.

Static pressure was measured across the north, south, and west walls of each house with differential static pressure sensors (Model 260, Setra Systems, Boxborough, MA). The outside port was located against the outside wall near the ventilation fans of the north, south, and west walls.

Impeller anemometers (Model 27106RS, RM Young, Traverse City, MI) were installed on the outlet of fans 2 and 7 in H12 and fan 7 in H10 (building PREFs).

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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 was used to develop equations that would calculate airflow as a function of differential pressure and fan rotational speed, and to assess the uncertainty in airflow predictions.

A total of 237 in-situ fan tests with replication were conducted during April and June, 2008, and April, July and September, 2009. Each fan was tested at least once during three or more of the five testing periods. The belts on the fans had been recently replaced prior to the tests in June 2008.

The airflow curves of the large (Model 48318-235, Chore-Time, Milford, IN) and small (Model AT365Z1CP, Aerotech, Mason, MI) fans were obtained from the Bioenvironmental and Structural Systems (BESS) Lab at the University of Illinois at Urbana-Champaign (BESS, 2003; BESS, 2004). Each performance record consisted of airflow (Q1) measured at several static pressures (P1), and at a relatively constant speeds (N1 = 779 and 550 rpm for small and large fans, respectively).

For each fan type, the BESS fan curve was adjusted to the mean speed (N2) of the fan tests. The mean speeds were 530 and 749 rpm for the large and small fans, respectively. The new, speed-indexed baseline curves were derived using the first ($Q_2 = Q_1(N_2/N_1)$) and second ($\Delta P_2 = \Delta P_1(N_2/N_1)^{0.5}$) fan laws, where Q_2 is the speed-adjusted BESS fan curve at speed N_2. The speed-corrected airflow prediction model is $Q_4 = (a\Delta P_4 + b)\cdot(N_4/N_2)\cdot Q_2$, where ΔP_4 and N_4 are measured fan static pressure and speed. For a given test using the portable tester, the model is $Q_4 = (a\cdot\Delta P_3 + b)\cdot(N_3/N_2)\cdot Q_2$, 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 5.

Fans were assigned to a sampling stream based on their proximity to the three sampling locations in each house. For each house, fans 2, 3 and 8 constituted Stream 1, fans 4 to 7 made up Stream 2, and Stream 3 was fans 9 to 12. The airflow for each stream was calculated by summing the individual airflows for all fans in the stream.

Table 5. Fan airflow models.

Fan type	Reference speed (N_2)	Polynomial coefficients of $Q_2=f(\Delta P_2)$ at speed N_2				Coefficients of k	
		a3	a2	a1	a0	b1	b0
Large	530	2.943E-06	-2.304E-04	4.368E-02	9.412E+00	8.213E-04	0.887
Small	749	1.474E-05	5.108E-04	3.908E-02	5.617E+00	4.196E-03	0.697

3.4.4. Biomaterials Sampling Methods and Schedule

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

Water was evaluated based on analyses of the water provided to the animals in August 2009.

Feed samples were collected in duplicate from each house and analyzed for nitrogen and solids by Midwest Labs.

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Samples of the rice hull bedding material were collected in duplicate from each house and analyzed for nitrogen and solids by Midwest Labs.

The total volume of fresh bedding brought in on 4/18/08 after a complete loadout of old litter was 118 m^3, based on measured litter density.

The estimated volume of litter removed by the decaking procedure was 30 to 45 m^3 based on the volume of manure removed from a house on 12/31/07, and the average volume of litter removed from multiple houses on 1/2/08. A decaked litter density of 474 g/m^{-3} was determined from a 15.3-L sample. On 4/15/08, the manure mass removed during a complete loadout, estimated from the square area and average mass of manure per unit area, was 88 metric tons in H10 and 79 metric tons in H12.

Three types of manure samples were collected. "Surface litter samples" were collected from 16 random locations per house including eight samples from the front of the house with relatively fresh litter, and from the back of the house with the older litter. The two groups together were considered representative of the house litter. At each sampling point, all litter in a 0.6-m radius was brought to the center of the sampling location and mixed thoroughly. Composite samples from the mixtures were analyzed for pH, solids and ammonia. Decaking and loadout samples were collected from 12 random locations in each house during litter decaking and loadout, respectively, and analyzed for ash (after 12/2/08), nitrogen, and solids.

3.5. **Particulate Matter Monitoring**

Real-time PM monitors (TEOM Model 1400a, Thermo Fisher Scientific, Waltham, MA) continuously sampled exhaust PM. A TEOM was placed in each house about 6 m in front of fan 7, which was the PREF (Figure 3). It was approximately at the midpoint of a line connecting fans 7 and 12.

A beta attenuation PM monitor (Beta Gauge Model FH62C-14, Thermo Fisher Scientific, Franklin, MA) continuously measured house inlet PM concentration. The Beta Gauge was enclosed in a protective outdoor enclosure and located at the inlet gas-sampling location of house 10 (Figure 3). The inlet PM monitor was very near the house ventilation inlets and more than 60 m away from the exhaust fans at the west end of the houses. While the driveway around the complex was paved, the space between the houses was barren. Infrequent vehicle traffic in the barren spaces between the houses could have caused "spikes" of measured inlet PM.

At any one time, the sampled PM size class was either PM_{10}, $PM_{2.5}$ or TSP at both TEOMs and the Beta Gauge. The $PM_{2.5}$ size class was measured in February and July, 2008, and January and September, 2009 for 12 to 18 d each time (Table 6). The TSP inlet heads were placed on the TEOMs for six, 7-14 d periods. The PM_{10} concentration was measured at all other times.

3.6. **Continuous Gas Sampling and Monitoring**

Air samples for continuous gas measurements were collected from multiple gas sampling probes with a custom-designed GSS. Each probe was connected to the GSS with Teflon tubing. Tubular raceways between the OFIS and the monitored buildings protected the sampling lines and data signal cables. The sampling lines were wrapped with insulation and heated inside the raceways and at other locations vulnerable to cold air to prevent condensation inside the tubes.

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Three gas sampling probes were placed in the west end of each house, near the exhaust fans at a height equal to the fan hubs (Figure 3). One gas sampling probe (A) was located in front of the inlet of fan 2, and between fans 5 and 10. Sampling probes B and C were located 3 m from each sidewall in a cross-sectional plane that was 1 m east of fans 7 and 12. The probe for sampling inlet air was located near one of the two houses at approximately the midpoint (lengthwise) of the house. The occasional 2-3 d stockpiling of litter just outside the far end of the houses was the only on-farm source besides the exhaust from other houses that would contribute to the inlet contaminant concentrations.

Table 6. Sampling schedule for PM_{10}, TSP and $PM_{2.5}$.

Time and day, m/d/y		Test duration, d		
Start	**Stop**	**PM_{10}**	**TSP**	**$PM_{2.5}$**
9/28/07	12/10/07	73.6		
12/10/07	12/19/07		8.9	
12/19/07	2/1/08	44.0		
2/1/08	2/19/08			18.1
2/19/08	2/20/08			0.3†
2/19/08	2/20/08	0.3‡		
2/20/08	5/15/08	85.7		
5/15/08	5/28/08		12.8	
5/28/08	7/9/08	42.0		
7/9/08	7/25/08			16.0
7/25/08	11/17/08	115.1		
11/17/08	11/24/08		7.1	
11/24/08	1/5/09	41.9		
1/5/09	1/20/09			15.0
1/20/09	4/9/09	79.0		
4/9/09	4/20/09		11.0	
4/20/09	6/25/09	66.1		
6/25/09	7/8/09		12.9	
7/8/09	9/26/09	80.1		
9/26/09	10/7/09			10.9
10/7/09	10/21/09		14.1	
10/21/09	10/22/09	0.4		
Totals		628.3	66.7	60.3

† All except ambient
‡Only ambient

Each exhaust location was sampled individually for 10 min. The ventilation inlet location was monitored at least twice daily, originally with a 20-min sampling period. After approximately four months of data collection, gas concentration data at each sampling location was studied to determine whether equilibrium occurred within the sampling periods. A statistical analysis confirmed that 10 min was sufficient for the exhaust GSLs, but that 30 min was required for the house inlet. The inlet sampling period was therefore increased from 20 min to 30 min.

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Table 7. Analyte sampling locations.

Analyte	House	Sampling Location*	Qty
NH_3 H_2S CO_2	10, 12	GSL-A: Directly in front of the inlet of fan 2, along a line connecting fans 5 and 10	2
	10, 12	GSL-B: 1 m E of fan 12 and 3 m from N wall	2
	10, 12	GSL-C: 1 m E of fan 7 and 3 m from S wall	2
	10, 12	**INLET:** In front of the 5th ventilation inlet from the E end of house 10 on N sidewall	1
$PM_{2.5}$ PM_{10} TSP	10, 12	TEOM located 2 m in front of fan 7	2
	10, 12	**INLET:** Beta-Gauge in front of the 5th ventilation inlet from the E end of house 10 on N sidewall	1
VOC	10, 12	1 m E of fan 7 and 3 m from S wall, at fan hub level (GSL-C)	2

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

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

The INNOVA analyzed NMHC concentrations by measuring THC and subtracting ethanol (manufacturer error) and methane. The THC data was questionable, however, due to irreconcilable interferences by water vapor and other gases. Therefore, the VOC-related gas emissions measured by the INNOVA are not included in this report.

3.7. VOC Sampling

Grab samples of VOC were collected at the PREFs (fan 7 each house) (Table 7), using methodology based on methods TO-15 and TO-16. Sampling was conducted with 6-L stainless-steel canisters (TO-Can, Restek Corp, Bellefonte, PA), equipped with ¼″ bellows valves (Swagelok SS4H) and 207-kPa vacuum gauges. Sampling trains contained flow controllers (Veriflo Model 423XL, Parker-Hannifin Corp., Richmond, CA) with 2- to 4-sccm critical orifices and 7-µm in-line stainless steel filters. Flow controllers were pre-set to a constant flow rate of 3.4 mL/min. Canister sampling was conducted for 24 h, and canister pressures were recorded at the beginning and end of the sampling periods for the calculation of total sample volumes. Sampling was conducted seven times between 7/14/09 and 10/7/09, with duplicate samples typically collected at each location. All canisters were cleaned and passed QC before sample collection.

Canister samples were analyzed at Purdue University's Trace Contaminant Laboratory. The canisters were pressurized to +207 kPa with ultrapure N2, and transferred to TDS tubes (Carbotrap 300, Supelco, Bellefonte, PA). The pressurized canisters initially yielded sample flows of 50 mL min^{-1} during sample transfer to tubes. Canister heating was introduced when a canister pressure decreased to 13.8 kPa to ensure maximal transfer of nonvolatile components.

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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.

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

3.8. Documentation of Quality Assurance

3.8.1. Oversight, Maintenance, and Calibration

University of California personnel visited the site a total of 85 person-days and 98 person-days during years 1 and 2 of the monitoring period. An unidentified problem with the site computer or internet provider prevented remote connection to the site computer during the majority of the monitoring period; however, data files and correspondence were emailed from the site computer on a regular basis.

The Science Advisor audited the site on 9/5/07. The Environmental Protection Agency (EPA) conducted site audits on 6/4/08 and 10/5/09.

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

3.8.2. Gas Sampling System

Two types of GSS leak tests were conducted. The first test examined GSS integrity, by briefly creating a “dead head” against the pump by closing all solenoid valves, while measuring exhaust airflow with a portable rotameter, and recording the leakage flow with the GSS mass flow meter. The second test consisted monitoring GSS flow and pressure after manually setting AirDAC to sample from a particular GSL and plugging the GSL’s gas sampling probe, which created a GSS manifold vacuum of about -70,000 Pa or 0.31 atm. Preliminary tests indicated that GSS flows under dead-head conditions that were 10% or less (<0.45 L/min) of the normal GSS flow rate of 4.5 L/min was indicative of leak-free operation under normal GSS manifold vacuums of -5,000 to -8,000 Pa (0.93-0.96 atm). Leak tests of the GSS were conducted 13 times between 9/26/07

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and 9/9/09 (Appendix B). If the dead-head leakage flows were greater than the 0.45 L/min threshold, the cause was investigated and rectified. Systematic checking of individual sampling lines was conducted on 10/17/08 and 9/9/09, while checks of some lines were conducted more frequently. Data was only invalidated when leaks occurred away from the sampling location. If gas sampling probe filter maintenance eliminated a leak, no data was invalidated since leakage air would be the same as sampled air.

3.8.3. Gas Analyzers

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

3.8.3.1. Correction of Ammonia Concentrations

A multipoint calibration (MPC) was conducted through the challenge line seven times using purified air (Cat. # AIO.OCE-T, CEM zero-grade, Praxair, Indianapolis, IN) and three (typical) span concentrations of NH_3 (Cat. # NI-AM5MP-AS, Praxair Primary Standard). Except for the MPC on 12/30/07 and 6/26/08, each MPC was conducted with replication (Table 8). 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.

Table 8. Multipoint calibration record and results for the NH_3 measurements.

Date	# points	Span concentration, ppm		R^2
		Minimum	Maximum	
12/30/07	4	15	36	0.994
2/25/08	4	12	36	0.999
5/7/08	4	12	36	0.993
6/26/08	4	12	36	0.989
12/3/08	4	20	60	0.999
5/4/09	2	60	60	0.999
8/5/09	4	20	60	0.995

Precision checks were conducted periodically using zero and span gases (Z/S checks), delivered via the dilutor through the challenge line, and responses were recorded to monitor changes in system performance over time. Span checks prior to and after 11/25/08 were conducted with 30 and 60 ppm of NH_3, respectively, except that 20 ppm was used on 8/7/09 and 8/17/09 (Appendix C).

The average response of the analyzer to the zero and span gas applications was assessed, and the results were combined based on changes to the instrument or GSS to create linear correction models (Table 9). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table 9).

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Table 9. Concentration correction and measurement accuracy for ammonia.

Start/end dates	# of checks		Linear model	Accuracy, % of span			
				Bias		Precision	
	Zero	Span		z	s	z	s
1/22/08-4/11/08	5	5	y =1.134(x–0.878)	-0.4	0.4	0.3	2.0
5/2/08-7/29/08	12	12	y =1.213(x-0.358)	-0.3	0.6	0.6	8.5
10/17/08-1/30/09	6	9	y =1.095(x-0.693)	-0.2	0.8	0.6	2.5
1/30/09-7/14/09	9	10	y =1.121(x-0.322)	0.0	-1.1	0.3	2.8
7/14/09-9/27/09	7	7	y =1.201(x-0.174)	-0.1	0.5	0.6	2.4

3.8.3.2. Correction of Hydrogen Sulfide Concentrations

A MPC was conducted through the challenge line seven times using purified air (Cat. # AIO.OCE-T, Praxair CEM zero air) and three or four span concentrations (Cat. # NI-HSR1E-AS, Praxair EPA Protocol Standard). Except for the first three MPCs, each MPC was conducted with replication (Table 10). The H_2S was delivered using a 6-port dilutor (Model 040, Environics, Tolland, CT). The R^2 values of each MPC exceeded 0.999, indicating excellent linearity of instrument response to standard gas between 0 and 1800 ppb.

Table 10. Multipoint calibration record and results for the H_2S measurements.

Date	# points	Span concentration, ppb		R^2
		Minimum	Maximum	
11/7/07	5	500	1800	0.999
11/13/07	4	500	1800	0.999
1/2/08	4	500	1800	1.000
6/26/08	4	600	1800	0.999
7/29/08	4	600	1800	1.000
11/24/08	4	150	450	1.000
7/21/09	4	150	450	0.999

Precision checks were conducted periodically using zero gas and span gases (Z/S checks), delivered via the dilutor through the challenge line, and responses were recorded to monitor changes in system performance over time. Span checks were conducted with 150, 450 or 500 ppb of H_2S (Appendix C).

The average response of the analyzer to the zero and span gas applications was assessed, and the results were combined based on changes to the instrument or GSS to create linear correction models (Table 11). The models were used to correct instrument readout data. The measurement accuracy was assessed based on model-corrected zero and span checks (Table 11).

3.8.3.3. Non-Methane Total Hydrocarbons

This measurement was disqualified because interferences severely affected the data quality, and could not be addressed by the manufacturer.

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Table 11. Concentration correction and measurement accuracy for hydrogen sulfide.

Start/end dates	# of checks		Linear model	Accuracy, % of span			
				Bias		Precision	
	Zero	Span		z	s	z	s
9/25/07-12/31/07	5	7	y = 0.943(x–5.131)	-0.1	3.1	0.1	5.5
1/2/08-11/24/08	17	17	y = 0.855(x–5.790)	0.0	-1.6	0.2	2.0
11/24/08-9/9/09	20	6	y = 0.998(x–1.985)	0.0	-0.1	0.2	2.3

3.8.3.4. 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 41 to 52 min after equilibrium of the instrument readout was reached. The MDL was calculated as the t-statistic times the standard deviation of the data collected during the equilibrated period (Table 12).

Table 12. Noise test of gas analyzers with dry air on 9/9/09.

Concentration	Statistical variable				Duration, min	T_{dew}, °C
	Min	Max	SD	MDL		
NH_3, ppm	1.02	1.21	0.04	0.10	41	-44.9
H_2S, ppb	2.6	10.8	0.5	1.2	52	-47.0

3.8.4. Particulate Matter Monitors

The quality of the exhaust PM data was assessed through periodic mass verifications and flow and leak checks of the TEOMs (Table 13 and Table 14). The H10 and H12 TEOMs met or exceeded the mass verification criteria (Ko actual within ±2.5% of Ko audit) except on 11/10/07 in H12.

Table 13. Quality assurance tests of house 10 TEOM.

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
9/21/07	0				0.06	0.06
11/10/07	50	1.10	3.06	16.85	0.04	0.09
12/1/07	21			9.00		
12/1/07	0			16.67		
5/7/08	158	1.68	3.04	16.82	0.05	0.05
12/13/08	220	1.34	3.05	16.32	0.04	0.01
5/11/09	149		2.92	16.30		
6/5/09	25	1.15	3.07	16.95	0.04	0.03
9/26/09	113		2.91	16.14	0.07	0.07
10/20/09	24	1.09	3.04	16.36	0.07	0.08

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Table 14. Quality assurance tests of house 12 TEOM.

Date	Time since last test, d	Mass error, %	TEOM flows, L·min^{-1}		Leak test flows, L·min^{-1}	
			Main	Total	Main	Aux.
9/28/07		2.20	3.10	16.95	0.05	0.00
11/10/07	43	2.60	3.09	16.74	0.02	0.03
11/20/07	10	2.40	3.12	16.82	0.01	0.00
5/7/08	169	2.26	3.02	16.84	0.02	0.02
12/13/08	220	2.13	3.06	16.69	0.02	0.02
4/28/09	136	2.10	3.03	16.31	0.04	0.08
5/11/09	13		3.02	16.45		
8/17/09	98	1.89	3.01	16.47	0.03	0.00
9/26/09	40		3.02	16.63	0.03	0.04
10/21/09	25	1.69	3.03	16.68	0.03	0.07

The criteria for total and main flows were 16.67±1.0 and 3.0±0.2 L/min, respectively, and were met on all dates except 12/1/07 in H10.

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

Mass verifications and flow calibrations of the ambient PM monitor were conducted periodically (Table 15). The mass verification criteria of <5% was met on all dates except 6/5/09, and total flow check criteria of <4% was met on all dates except 5/26/09.

Table 15. Ambient PM monitoring quality assurance parameters.

Date	Time since last test, d	Mass verification, %	Total flow check, %
9/21/07		0.0	0.0
11/20/07	60		0.0
2/25/08	97	0.0	
5/26/09	456		5.3
6/5/09	10	-8.0	
1/14/10	223	0.0	3.2
1/15/10	1	-0.6	

The TEOM measurements were also evaluated based on collocated measurements of all three PM types (Table 16) after 9/26/09 with both TEOMs situated in H10. The differences in average PM_{10}, TSP and $PM_{2.5}$ concentrations over the collocation periods were 4.2, 7.9 and 13.9%.

Table 16. TEOM collocation test results.

PM type	Average concentration, µg/m^3		Difference, %
	House 10 TEOM	House 12 TEOM	
PM_{10}	649	622	-4.2
TSP	3723	3454	-7.9
$PM_{2.5}$	40	35	-13.9

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3.9. Data Analysis

3.9.1. Software

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

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

3.9.2. Data Substitution, Validation, Correction and Uncertainty

3.9.2.1. Pressure

The static pressure sensor measurements were adjusted based on both multipoint calibrations performed on 9/5/07 and 5/15/08, and time-weighted average zero offsets during the interim periods (Table 17). The average static pressures for each building were determined using data from all properly-operating sensors among the north, west, and south ΔP sensors. For calculating airflow, the average of the functioning sensors in the building was used whenever the sensor on the fan's actual wall failed. The average of the north and south wall ΔP was substituted for the H10 west wall ΔP from 7/1/08 to 7/18/08 and from 11/21/07 to 12/19/07 when the H10 west wall ΔP was invalid.

Table 17. Static pressure sensor zero offsets.

Sensor location	Start/end dates	# of zero checks	Offset
H10 N wall	9/5/07-11/21/07	2	0.03
	11/21/07-5/15/08	2	0.68
	5/15/08-10/21/09	4	0.06
H10 W wall	9/5/07-11/21/07	2	0.29
	11/21/07-5/15/08	2	0.45
	5/15/08-10/21/09	4	0.09
H10 S wall	9/5/07-11/21/07	2	0.28
	11/21/07-5/15/08	2	0.07
	5/15/08-10/21/09	4	-0.14
H12 N wall	9/5/07-11/21/07	2	0.03
	11/21/07-5/15/08	2	0.68
	5/15/08-10/21/09	4	0.33
H12 W wall	9/5/07-11/21/07	2	0.21
	11/21/07-5/15/08	2	-0.53
	5/15/08-10/21/09	4	0.02
H12 S wall	9/5/07-11/21/07	2	-0.17
	11/21/07-5/15/08	2	-0.10
	5/15/08-9/10/09	3	0.51
	9/10/09-10/21/09	1	0.02

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Based on the time-weighted averages of the zero checks, calibration offsets ranging from -0.5 to 0.7 Pa were assigned to the different sensors (Table 17).

The atmospheric pressure measurement was not available between cycles, as the TEOMs were offline during house cleaning. Daily mean atmospheric pressure data from the nearest weather station was compared to the measured values from both TEOMs, and found to be representative of the site measurements, and continuous through the time between cycles. Therefore, the weather station measurement was used in all emission calculations.

3.9.2.2. Environmental Sensors

The average exhaust temperature for each house was the mean of the RH/T probe temperature measurement and the TC measurements at fans 7 and 12.The average house temperature was the mean of the four TC measurements down the middle of each house.

The solar sensor signal was collocated with a reference solar sensor on 4/10/09 and yielded a slope of 1.049 and an intercept of 133.6 W/m^2, that was used to correct the raw data. An additional offset of -32 W/m^2 detected between 6/4/09 and 6/25/09 based on nighttime measurements, was used to correct solar radiation data.

3.9.2.3. Fan Operation

Low-level noise was filtered out by setting operational status to "off" (0%) if the average speed was less than 20 to 50 rpm for all fans except the north wall fans of H12. The low-level noise filter level for these fans was 100 rpm.

High-level noise (or spikes) were also filtered out by setting fan speeds greater than the maximum operating speed for each type of fan (assessed through a fan speed frequency analysis) to the maximum operating speed.

3.9.2.4. Gas Concentrations

Times were specified in the data processing software for gas concentration measurements to stabilize based on gas and sampling location (Table 18).

Linear interpolation of corrected gas concentrations was used to fill in concentrations for each minute between two valid concentration measurements at a sampling location, up to a specified maximum interpolation interval (Table 18).

Table 18. Gas concentration data validation and interpolation requirements.

Gas	Exhaust Sampling Locations		Ambient Sampling Location	
	Equilibration period, min	Maximum interpolation interval, min	Equilibration period, min	Maximum interpolation interval, min
NH_3	7	300	17	3000
H_2S	5	300	10	3000

Gas and water vapor concentrations, and sample relative humidity, temperature, pressure, flow rate, and flow direction were invalidated during all gas analyzer MPCs and Z/S checks, and

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when sample Q < 3.0 L/min. Gas and PM data were invalidated under conditions of positive barn static pressure, because barn airflow measurements require a negative or underpressure in the barn.

Gas concentration data were invalidated due to problems with the INNOVA 1412. The analyzer was brought on-line on 12/28/07. Significant downtime occurred due to factory repair and calibration from 9/2/08 to 10/2/08 and from 6/11/09 to 7/14/09. There was also a chopper motor error in January 2009. Approximately 144 d of NH3 concentration data were lost or invalidated due to INNOVA-related issues.

Gas concentration data was invalidated whenever the GSS failed leak tests. Gas concentrations were invalidated between 9/27/08 and 11/9/08, because of a leak in the GSS and high analyte concentrations detected during zero gas checks (Appendix C).

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

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

and

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

Where:

C''	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. PM Concentrations

Prior to 2/19/08, the TEOM flow rates were erroneously internally adjusted to 16.7 $L \cdot min^{-1}$ based on standard conditions (20ºC and 1 atm). The PM data was acceptable, however, because the TEOM flow rates corrected for actual air density were still within the required 15.7 to 17.7 $L \cdot min^{-1}$ range. The TEOM settings were changed on 2/19/08 to adjust the flow to 16.7 $L \cdot min^{-1}$ based on actual rather than standard air density.

The TEOMs were configured to output the PM concentration data at the surrounding temperature and atmospheric pressure until 2/19/08, at which time they were reconfigured to output the PM

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data at standard conditions (20ºC, 1 atm). All PM concentration data prior to 2/19/08 was corrected to standard conditions.

Dry standard PM concentrations were obtained by dividing the standard condition concentrations by one minus the air humidity ratio.

The B10 TEOM data was unavailable between 2/20/09 and 5/11/09 related to an air temperature sensor problem. The B12 PM data was offline between 7/13/09 and 8/16/09, related to sensor hardware problems.

3.9.3. Emission Calculations

3.9.3.1. Particulate Matter

PM emissions were calculated with Eqn. 3-3.

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

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

Stream-specific gas emissions were determined as follows:

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

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

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variables (house inventory, feed consumption) or constants (floor area) to normalize emissions to site-specific characteristics.

3.9.3.3. Volatile Organic Compounds

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

4. RESULTS

4.1. Farm Production Information

The farm production information, including inventory, bird mass and density are presented in Table E2. The bird mass estimates are based on a regression curve fit through the bird mass versus age data collected over three cycles of birds.

The monitoring period extended across 14 growth cycles, which ranged from 43 to 48 d long. The time between flocks averaged 11 d and ranged from 6 to 25 d. The average flock size was 20,636 birds in each house. Litter was decaked eight times and loaded out five times. The manure loadout periods started on 11/2/07, 4/14/08, 9/25/08, 3/26/09 and 9/13/09.

4.2. Characteristics of Biomaterials

The summarized results of lab analyses of the various biomaterials are available in Appendix F**Error! Reference source not found.**. The nitrogen content of the ricehull bedding material ranged from 0.4 to 0.7% nitrogen (wet-basis). The nitrogen content of the feed ranged from 2.3 to 4.3% nitrogen (wet-basis), and reflects the change in diet formulation with bird age.

4.3. Environmental Conditions

4.3.1. Ambient Conditions

According to historical climatic information daytime average high temperatures ranges from 12°C in the winter to 35°C in the summer. Average overnight lows range from 3°C in winter to 16°C in summer. Typical prevailing winds for the region are from the southeast in the winter and west-northwest during the rest of the year.

Table E1 shows the daily average outdoor temperature, relative humidity, wind speed, wind direction, solar radiation and barometric pressure. The average temperature on site was 16.7°C, similar to the average temperature condition for the area (Table 19).

4.3.2. House Conditions

The environmental conditions in H10 and H12 are shown in Table E3. The average exhaust temperatures reflect the management practice to concentrate the birds in the east ends of the houses where the brooders are located (opposite end from the exhaust fans and temperature measurements), for the first 10 d of each cycle (Figure 4). After this initial period, when the birds occupy the entire house, the exhaust temperature reflects the decreasing setpoint temperature of the ventilation system (Table 1). The sharp decreases in average exhaust temperature, especially during winter months, correspond to the production preparation period between cycles when the heating and ventilation system was shut off.

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Table 19. Monthly averages for weather conditions in the area*.

Month	Temperature (°C)			Wind speed (km/h)	Wind direction
	High	Low	Mean		
January	12	3	8	13	SE
February	16	5	12	13	SE
March	19	6	14	15	WNW
April	23	8	17	15	WNW
May	28	11	20	17	W
June	32	14	23	18	W
July	35	16	26	16	WNW
August	34	16	25	15	WNW
September	31	14	23	14	WNW
October	26	10	18	12	WNW
November	17	6	12	12	SE
December	12	3	8	13	SE
Annual Average	24	9	17		

*** http://www.weather.com/weather/wxclimatology/monthly/USCA0714**

4.3.3. Ventilation Rates

The median static pressure differential was -15±5 Pa in all cases. The fraction of time that the pressure was positive ranged from 18.4 to 25.8%. Most of the positive pressures were likely wind-induced during times when duty cycled fans were off, and no other fans were running in the house. Static pressure was greater than -40 Pa over 90% of the time.

The ventilation control system set point was based on both ambient temperature and age of bird (Table 1). Figure 4 demonstrates an increasing airflow rate with time during each cycle, and a higher maximum airflow rate during warmer weather. The maximum daily mean airflow measurements for both houses occurred on 3/29/09, at which time the houses were in production preparation phase and empty of birds.

4.4. **Particulate Matter Concentration and Emission**

4.4.1. PM_{10}

The DM inlet PM_{10} concentration ranged from 4 to 262 µg dsm^{-3}, whereas the DM H10 and H12 PM_{10} exhaust concentrations ranged from 20 to 5030 µg·$dsm^{-3}$and from 27 to 4550 µg·dsm^{-3}, respectively (Table E4).

The ADM (±SD) inlet, H10 and H12 PM_{10} concentrations were 59±42, 896±670 and 1016±679 µg·dsm^{-3}, respectively (Table E4).

The overall mean PM_{10} emission rates were 873±831g·d^{-1} (45.1±40.1 mg·$d^{-1}bird^{-1}$) for H10 and 879±781 g·d^{-1} (44.2±37.1 mg·$d^{-1}bird^{-1}$) for H12 (Figure 5).

The ADM PM_{10} emissions increased with bird age during each of the 13 broiler growth cycles (Figure 5).

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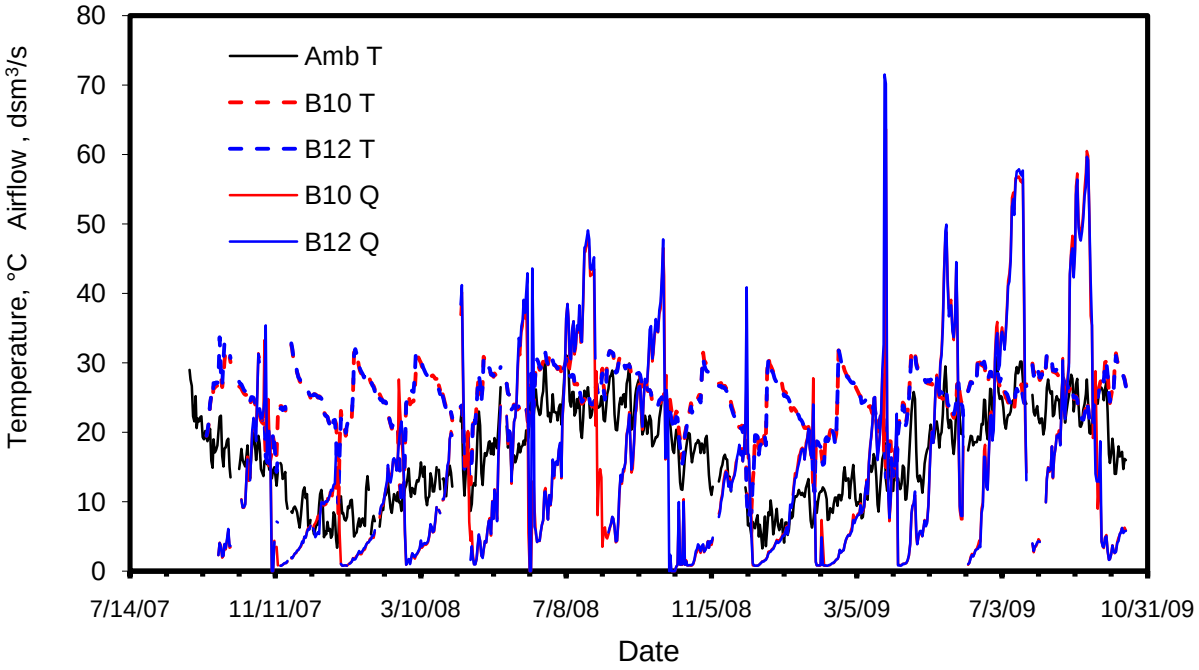

Figure 4. Ambient and exhaust temperatures (T) and dry standard airflow rates (Q) of house s 10 and 12.

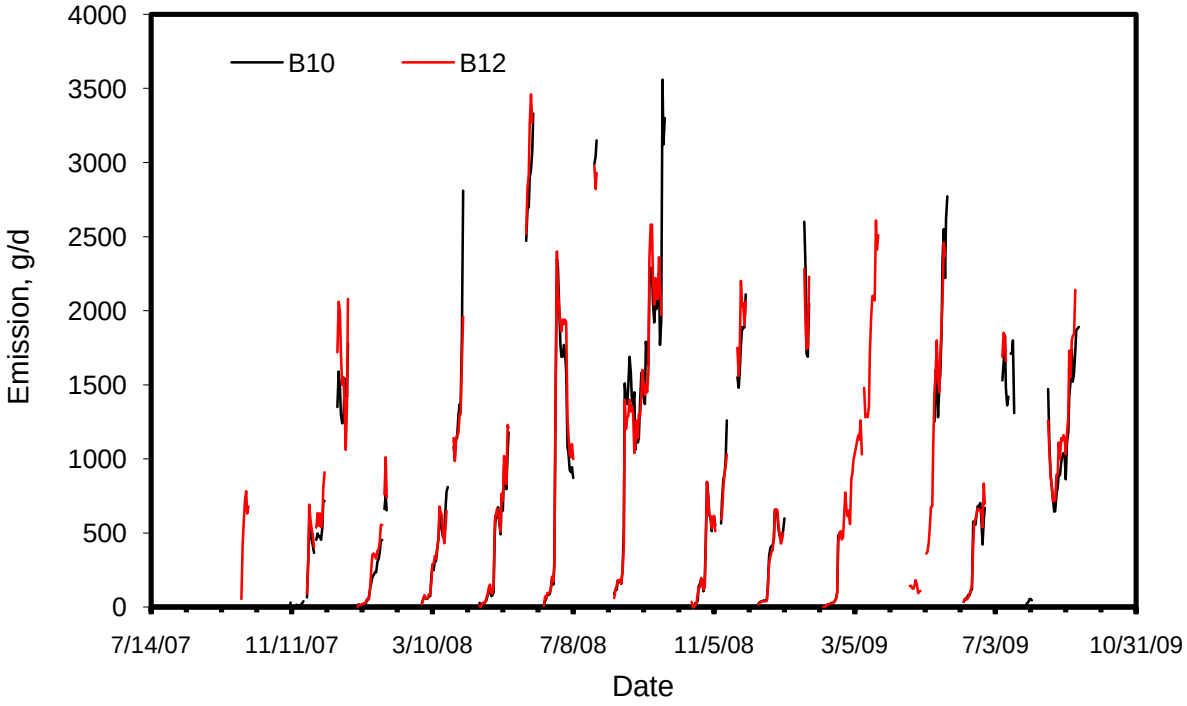

Figure 5. Daily mean PM_{10} emissions.

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4.4.2. $PM_{2.5}$

Daily mean concentrations of $PM_{2.5}$ ranged from 6 to 86 µg dsm^{-3} in the inlet air (n=53 d), 36 to 169 µg dsm^{-3} in H10 exhaust air (n= 51 d) and from 63 to 158 µg dsm^{-3} in H12 exhaust air (n= 43 d) (Table E4).

The ADM inlet, and H10 and H12 exhaust concentrations were 22±12, 98±37 and 110±24 µg dsm^{-3}, respectively (Table E4).

The overall mean $PM_{2.5}$ emission rates were 99±63 g d^{-1} (4.8±3.0 mg $d^{-1}bird^{-1}$) from H10, and 124±48 g d^{-1} (6.0±2.3 mg $d^{-1}bird^{-1}$) from H12 (Table E5) (Figure 6).

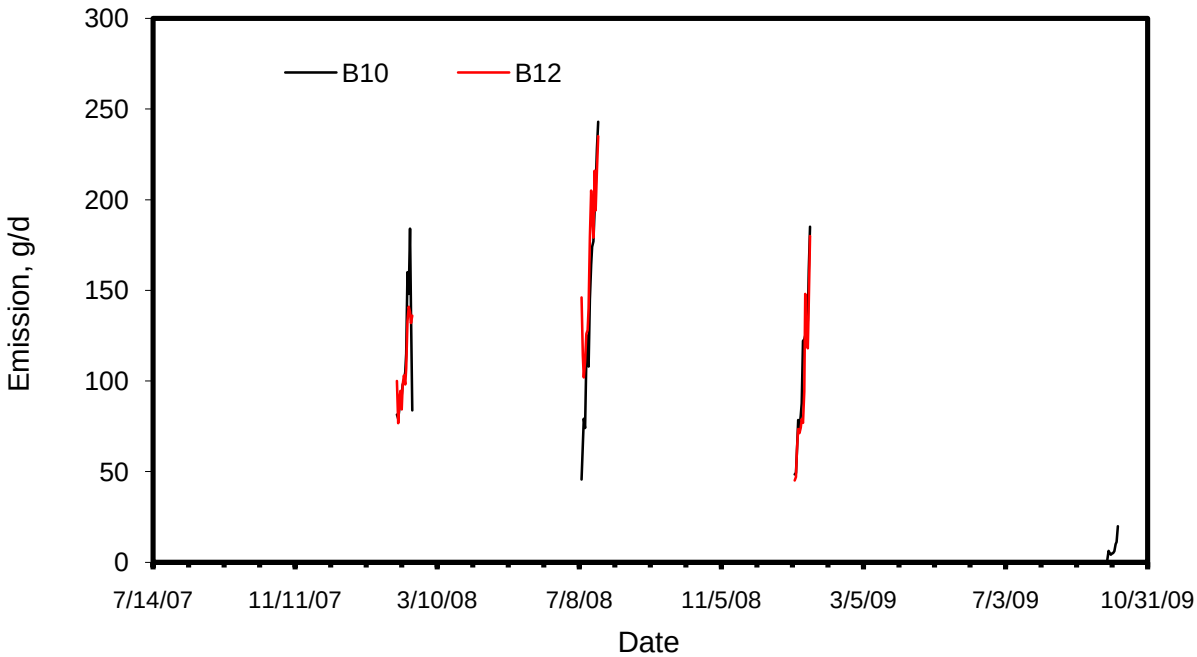

Figure 6. Daily mean $PM_{2.5}$ emissions.

4.4.3. TSP

Data from the six TSP measurement periods are shown in Table E4. Daily mean TSP concentrations ranged from 13 to 232 µg dsm^{-3} in the inlet air (n=46 d), 782 to 4530 µg dsm^{-3} in H10 exhaust air (n=37 d) and from 55 to 4270 µg dsm^{-3} in H12 exhaust air (n=40 d) (Table E4).

The ADM inlet, and H10 and H12 exhaust concentrations were 71±43, 2548±1046 and 1927±1462 µg dsm^{-3}, respectively (Table E4).

The ADM TSP emissions ranged from 3 to 6150 g d^{-1} (Figure 7). Emission rates are shown in Figure 7. The overall mean TSP emission rates were 2652±891 g d^{-1} (129±41 mg $d^{-1-1}bird^{-1}$) for H10 (n= 37 d), and 2270±1595 g d^{-1} for H12 (n=39 d) (Table E5).

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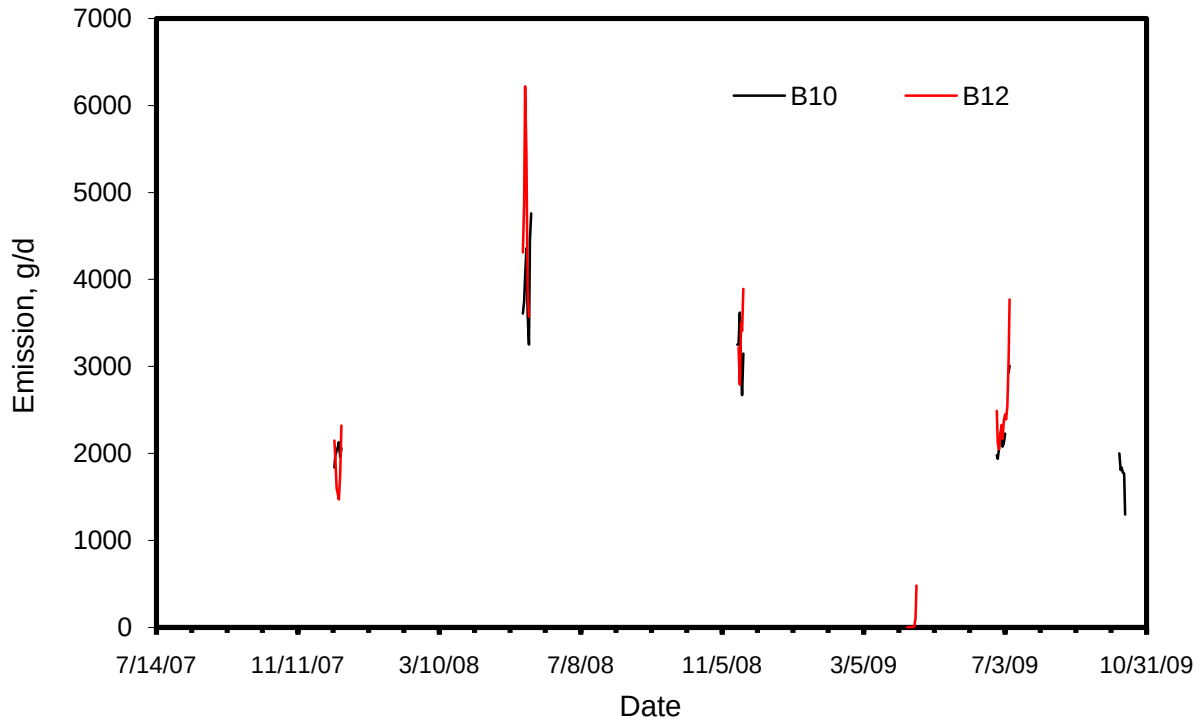

Figure 7. Daily mean TSP emissions.

4.5. VOC Concentrations and Emissions

The 20 most prevalent VOCs detected in the canister samples accounted for 89.1% of the total quantified mass (Table 20). The most prevalent compound was pentane, which accounted for 55.3% of the total mass.

Concentrations of total VOC in exhaust air ranged from 0.39 to 1.44 mg m^{-3} in H10 and from 0.43 to 14.1 mg m^{-3} in H12 (Table 21). The mean total VOC concentrations were 8.74 and 11.3 mg m^{-3} in H10 and H12, respectively.

Total VOC emissions (ng s^{-1}) during each sampling period were determined by multiplying the mean building airflow rate (m^3 s^{-1}) by the total mass (ng m^{-3}) and converting to kg d^{-1}. The VOC emission rate from H10 and H12 ranged from 0.56 to 3.94 kg d^{-1}, and from 0.50 to 5.76 kg d^{-1}, respectively. The mean VOC emission rates from H10 and H12 were 1.78±1.18 kg d^{-1} (n=7 d), and 3.12±3.12kg d^{-1} (n=6 d), respectively (Table 21).

4.6. Hydrogen Sulfide Concentrations and Emissions

Daily mean inlet and exhaust H_2S concentrations for the entire test are provided in Table E6.

The average daily mean H_2S concentrations were approximately 2.1±2.6 (n=614) ppb in the inlet air, and 41±37 (n=602) and 38±34 (n=600) ppb in the exhausts of H10 and H12, respectively.

Daily mean H_2S emissions from H10 and H12 are tabulated in Table E7 and plotted in Figure 8.

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Table 20. Average concentration of 20 most prevalent VOCs.

Compound	Concentration., ng·m^{-3}	% of total	Cumulative %
2,3-Butanedione	3.11E+05	34.33%	34.3
Dimethyl disulfide	9.43E+04	10.41%	44.7
Acetaldehyde	6.77E+04	7.47%	52.2
2-Butanone	6.32E+04	6.98%	59.2
iso-Propanol	4.11E+04	4.54%	63.7
Pentane	3.96E+04	4.37%	68.1
Dimethyl sulfide	3.03E+04	3.35%	71.4
Acetic acid	2.71E+04	2.99%	74.4
Hexanal	1.69E+04	1.86%	76.3
Ethyl acetate	1.65E+04	1.82%	78.1
Hexane	1.44E+04	1.59%	79.7
Propanoic acid	1.36E+04	1.51%	81.2
Pentanal	1.31E+04	1.45%	82.7
Phenol	1.22E+04	1.35%	84.0
1-Butanol	9.38E+03	1.04%	85.0
2-Pentanone	8.86E+03	0.98%	86.0
4-Methyl-phenol	8.61E+03	0.95%	87.0
Heptanal	8.50E+03	0.94%	87.9
Butanal	8.39E+03	0.93%	88.8
Octanal	8.20E+03	0.91%	89.7

Table 21. Emission of total VOC for each sampling day.

Date	# canisters		Concentration, mg m^{-3}		Airflow, m^3 s^{-1}		Emission, kg d^{-1}	
	H10	H12	H10	H12	H10	H12	H10	H12
07/14/10	2	2	0.78	1.10	58.8	59.7	3.94	5.70
08/03/10	2	2	0.91	0.75	4.50	4.41	0.35	0.29
08/16/10	2	2	0.74	0.76	18.9	18.8	1.21	1.24
08/26/10	2	2	0.96	1.36	30.4	29.4	2.53	3.45
09/03/10	2	2	0.39	0.43	56.3	55.4	1.89	2.06
09/12/10	2	0	0.39	N/A	51.2	N/A	1.72	N/A
10/07/10	2	2	1.42	1.8	5.12	4.73	0.63	0.73
Mean	2.0	1.7	0.80	1.03	32.2	28.8	1.75	2.24

The ADM H_2S (SD) emission rates from H10 and H12 were 52.9±50.4 (n=592) and 50.3±50.6 (n=590) mg d^{-1}, respectively.

The ADM (SD) bird-specific H_2S emission rates from H10 and H12 were 2.94±2.49 (n=491) and 2.83±2.53 (n=488) mg d^{-1} bird^{-1}, respectively.

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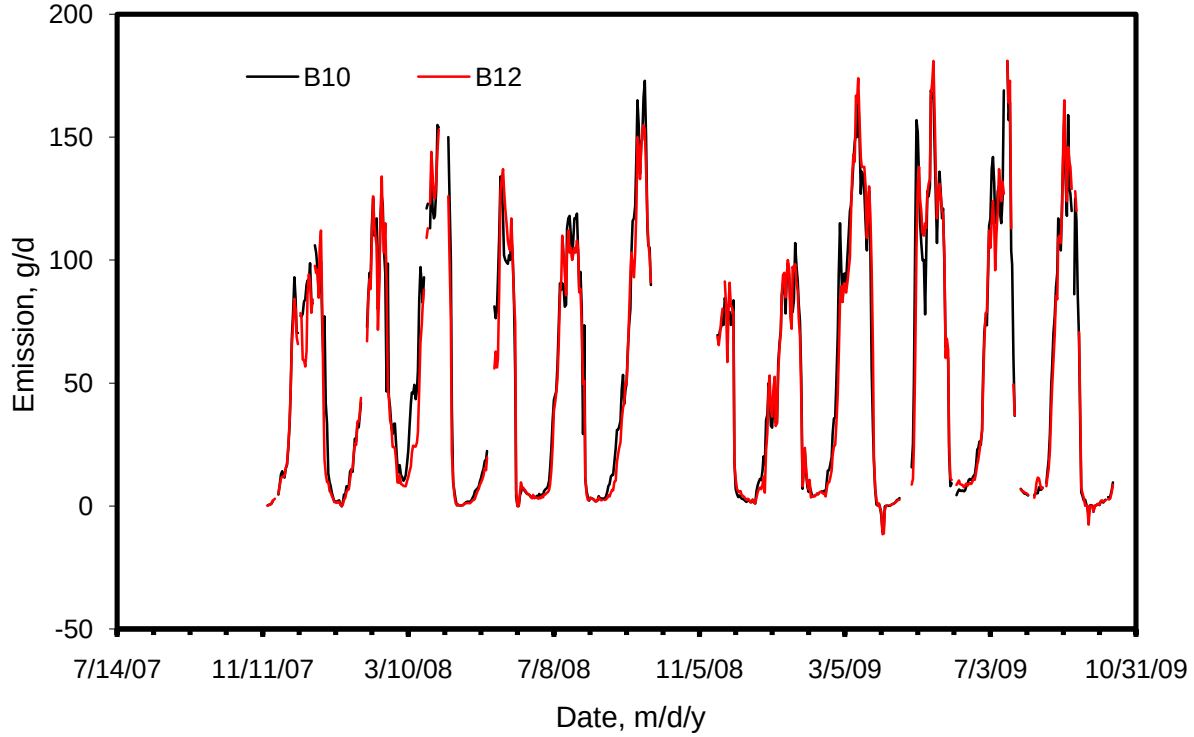

Figure 8. Daily mean H_2S emissions.

4.7. Ammonia Concentrations and Emissions

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

The average daily mean NH_3 concentrations were approximately 0.3±0.6 (n=485) ppm in the inlet air, and 23.0±29.4 (n=478) and 20.5±26.6 (n=476) ppm in the exhausts of H10 and H12, respectively.

Daily mean NH_3 emissions from H10 and H12 are tabulated in Table E9 and plotted in Figure 9 for the entire test period. The NH_3 emission rates exhibited an increasing trend corresponding to bird age, and the lowest emission rates occurred between cycles when the litter was completely removed from the house, versus decaked. The "spike" in the emission rate on 8/2/08 occurred when the house was empty, during the decaking procedure.

The ADM NH_3 (SD) emission rates from H10 and H12 were 10.2±9.2 (n=467) and 9.0±8.4 (n=466) g d^{-1}, respectively.

The ADM bird-specific NH_3 (SD) emission rates from H10 and H12 were 539±450 (n=373) and 472±420 (n=370) g d^{-1} $bird^{-1}$, respectively.

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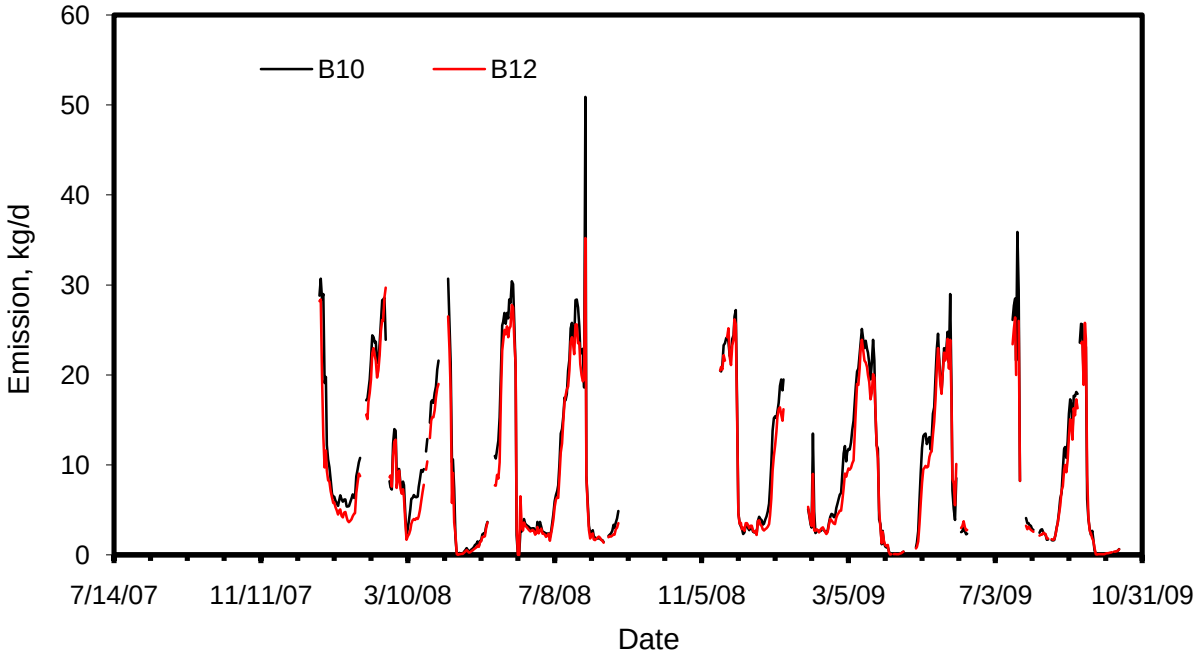

Figure 9. Daily mean NH_3 emissions.

4.8. Emission Data Completeness

Daily completeness data is given in Table E10. The number of complete data days (>75% valid required for reporting a daily mean) were calculated for emission measurements conducted from 9/27/07 to 10/21/09 (Table 22). The number of daily means of NH_3 emissions was reduced by delays in receiving the INNOVA 1412 at the beginning of the study, and by calibration and maintenance issues with the INNOVA 1412. The quantity of PM emissions data was reduced by TEOM failures.

Table 22. Emissions data completeness (days with >75% valid emission data collection).

Location	NH_3	H_2S	PM_{10}	$PM_{2.5}$	TSP
H10	467	592	352	53	37
H12	466	590	376	43	39

4.9. Reconciliation with Data Quality Objectives

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

4.9.1. Airflow

The overall average airflows for H10 and H12 were 14.7 ± 14.1 $dsm^3 s^{-1}$ (n=658), and 15.0 ± 14.6 $dsm^3 s^{-1}$ (n=648), respectively**.** The average airflows were approximately equivalent to one 91-cm fan and 1.6, 122-cm fans operating in each house. The airflow measurement uncertainty at these conditions was 13.4%, based on the fan models.

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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 9). The time-weighted relative bias and precision of NH_3 measurements were -0.2% and 0.7% and 1.7% and 4.3% for zero and span, respectively.

The bias and precision of H_2S concentration measurements were derived from the H_2S zero and span checks as compared with the H_2S correction models (Table 11). The time-weighted relative bias and precision of H_2S measurements were -0.0% and 0.2% and 0.3% and 5.4% for zero and span, respectively.

Based on these measurement errors calculated for concentrations and airflows, the uncertainties of NH_3 and H_2S emissions from H10 and H12 was 17.1 and 17.7%, respectively.

4.9.3. PM Emissions

The precisions of the PM_{10}, TSP and $PM_{2.5}$ concentration measurements were 3.0, 5.3 and 9.4%, respectively, based on collocation tests of TEOMs (Table 16). The time-weighted relative biases of the TEOMs were 0.74 and 1.54% for H10 and H12 based on mass flow checks (Table 13 and Table 14). The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from H10 were 15.0%, 17.4 and 23.3%, respectively. The uncertainties of PM_{10}, TSP and $PM_{2.5}$ emissions from H12 were 15.1, 17.4 and 23.4, respectively.

5. SUMMARY

The emissions of NH_3, H_2S, PM_{10}, TSP, $PM_{2.5}$ and VOCs from two 21,000-bird broiler houses (houses 10 and 12) at a 16-house ranch in California were measured during a two-year monitoring study. Rice hulls were used as litter. The buildings were tunnel-ventilated with single-speed fans.

The overall average emission rates from house 10 were 10.2 kg d^{-1} of NH_3, 52.9 g d^{-1} of H_2S, 873 g d^{-1} of PM_{10}, 98.8 g d^{-1} of $PM_{2.5}$, 2650 g d^{-1} of TSP, and 1.96 kg d^{-1} of total VOC. The overall average emission rates from house 12 were 9.0 kg d^{-1} of NH_3, 50.3 g d^{-1} of H_2S, 879 g d^{-1} of PM_{10}, 124 g d^{-1} of $PM_{2.5}$, 2270 g d^{-1} of TSP, and 2.52 kg d^{-1} of total VOC.

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7. DEFINITIONS AND ACRONYMS

AirDAC	Air Data Acquisition and Control – computer program
ADM	Average daily mean
BESS	Bioenvironmental and Structural Systems lab at University of Illinois
CAPECAB	Calculations of Air Pollutant Emissions from Confined Animal Buildings
CO_2	Carbon dioxide
CH_4	Methane
DAC	Data acquisition
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
H10, H12	House 10, House 12
H_2S	Hydrogen sulfide
MDL	Minimum detection limit
MPC	Multipoint calibration
MS	Mass spectrometer
n	Number or count
NAEMS	National Air Emissions Monitoring Study
NH_3	Ammonia
NMHC	Non-methane hydrocarbons
Q	Airflow
QA	Quality assurance
QAPP	Quality Assurance Project Plan
QC	Quality control
OFIS	On farm instrument shelter
PM	Particulate matter
PREF	Primary representative exhaust fan
RH/T	Relative humidity/temperature
RH	Relative humidity
SD	Standard deviation
TC	Thermocouple
T_{dew}	Dew point temperature
TDS	Thermal desorption system
TEOM	Tapered element oscillating microbalance
TSP	Total suspended particulate
VOC	Volatile organic compounds
Z/S	Zero/span

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APPENDIX A. MEASUREMENT VARIABLES

Table A1. Site measurement variables, instruments and sensors, and digital controls.

Data Col#	Data file heading	Instrument, sensor, controller	Sensor location	Monitoring/control location	Range / target	DAC hardware
1	Date & time	---				---
2	Smpl loc#	---				---
3	Cal gas #	Environics	Rack		0-7 gas #	---
4	Cal gas, ppm	Environics	Rack		From 0 ppm	---
5	NH3, ppm	Innova 1412	Rack	7 gas sampling lines	From 0.2 ppm	---
6	CO2, ppm	Innova 1412	Rack	7 gas sampling lines	From 3.4 ppm	---
7	N2O/C2H6O, ppm	Innova 1412	Rack	7 gas sampling lines	Varies	---
8	CH4/N2O, ppm	Innova 1412	Rack	7 gas sampling lines	Varies	---
9	THC/N2O/CH4, ppm	Innova 1412	Rack	7 gas sampling lines	Varies	---
10	WV, Tdew	Innova 1412	Rack	7 gas sampling lines	Not available	---
11	H2S, ppb	H2S analyzer	Rack	7 gas sampling lines	Varies	FP-AI-112-1
12	SO2, ppb	H2S analyzer	Rack	7 gas sampling lines	Varies	FP-AI-112-1
13	Smpl P, Pa	Setra 209 P sensor	GSS	7 gas sampling lines	0-14.7 psiv	FP-AI-112-1
14	Smpl Q, L/m	Mass flow	GSS	7 gas sampling lines	0-10 L/min	FP-AI-112-1
15	Smpl RH, %	Humitter 50Y	GSS	7 gas sampling lines	0-100 %	FP-AI-112-1
16	Smpl T, C	Humitter 50Y	GSS	7 gas sampling lines	-40 to 60 deg C	FP-AI-112-1
17	Smpl dir, %t	Flow direction sensor	GSS	7 gas sampling lines	0.065 - 0.065 V	FP-AI-112-1
18	GSS T, C	AD 592D T sensor	GSS	GSS	0-70 deg C	FP-AI-112-1
19	12 PM, ug/m3	TEOM #1	H12	H12, room center between F 7&12	-1000-9000 ug/m3	FP-AI-112-1
20	12 Filter, %	TEOM #1	H12	H12, room center between F 7&12	0-140%	FP-AI-112-1
21	12 Atm P, atm	TEOM #1	H12	H12, room center between F 7&12	0.8-1.3 atm	FP-AI-112-1
22	10 PM, ug/m3	TEOM #2	H10	H10, room center between F 7&12	-1000-9000 ug/m3	FP-AI-112-1
23	10 Filter, %	TEOM #2	H10	H10, room center between F 7&12	0-140%	FP-AI-112-1
24	Amb PM, ug/m3	Beta Gauge	Amb	Outside S side of B3, W end of Inlet	0-5000 ug/m3	FP-AI-112-1
25	CS, ppb	H2S analyzer	Rack	7 gas sampling lines	Varies	FP-AI-112-1
26	12N ΔP, Pa	Setra 260 P sensor #1	OFIS	H12N, beside fan 12	-100 to 100 Pa	FP-AI-112-1
27	12W ΔP, Pa	Setra 260 P sensor #2	OFIS	H12W, beside fan 2	-100 to 100 Pa	FP-AI-112-2
28	12S ΔP, Pa	Setra 260 P sensor #3	OFIS	H12S, beside fan 7	-100 to 100 Pa	FP-AI-112-2
29	10N ΔP, Pa	Setra 260 P sensor #4	OFIS	H10N beside fan 12	-100 to 100 Pa	FP-AI-112-2
30	10W ΔP, Pa	Setra 260 P sensor #5	OFIS	H10W, beside fan 2	-100 to 100 Pa	FP-AI-112-2
31	10S ΔP, Pa	Setra 260 P sensor #6	OFIS	H10S, beside fan 7	-100 to 100 Pa	FP-AI-112-2

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Data Col#	Data file heading	Instrument, sensor, controller	Sensor location	Monitoring/control location	Range / target	DAC hardware
32	OFIS ΔP/H12 E, Pa	Setra 260 P sensor #7	OFIS	Inside and outside of OFIS/H12E	-100 to 100 Pa	FP-AI-112-2
33	Wind D, deg	03002VM Wind Sentry	Roof	Roof top tower	0-360 degree	FP-AI-112-2
34	Wind V, m/s	03002VM Wind Sentry	Roof	Roof top tower	0-50 m/s	FP-AI-112-2
35	Solar, W/m2	LI-200SL Pyranometer	Roof	Roof top tower	0-1500 W/m2	FP-AI-112-2
36	Amb RH, %	NOVUS RHT-WM #1	Roof	Roof top tower	0-100 %	FP-AI-112-2
37	Amb T, C	NOVUS RHT-WM #1	Roof	Roof top tower	-20-80 deg C	FP-AI-112-2
38	12 RH, %	NOVUS RHT-WM #2	H12	H12, room center between F 7&12	0-100 %	FP-AI-112-2
39	12 T, C	NOVUS RHT-WM #2	H12	H12, room center between F 7&12	0 - 100 deg C	FP-AI-112-2
40	10 RH, %	NOVUS RHT-WM #3	H10	H10, room center between F 7&12	0-100 %	FP-AI-112-2
41	10 T, C	NOVUS RHT-WM #3	H10	H10, room center between F 7&12	0 - 100 deg C	FP-AI-112-2
42	12Act1 , V	Activity sensor #1	H12Ac1	H12, west end of brooders	0 to 2 VDC	FP-AI-112-2
43	12Act2 , V	Activity sensor #2	H12Ac2	H12, middle of W end of brooders	0 to 2 VDC	FP-AI-112-3
44	12Act3 , V	Activity sensor #3	H12Ac3	H12, between E edge of cool cell	0 to 2 VDC	FP-AI-112-3
45	12Act4 , V	Activity sensor #4	H12Ac4	H12, E end wall	0 to 2 VDC	FP-AI-112-3
46	10Act1 , V	Activity sensor #5	H10Ac1	H10, W end of brooders	0 to 2 VDC	FP-AI-112-3
47	10Act2 , V	Activity sensor #6	H10Ac2	H10, middle of W end of brooders	0 to 2 VDC	FP-AI-112-3
48	10Act3 , V	Activity sensor #7	H10Ac3	H10, between E edge of cool cell	0 to 2 VDC	FP-AI-112-3
49	10Act4 , V	Activity sensor #8	H10Ac4	H10, Eend wall	0 to 2 VDC	FP-AI-112-3
50	OFIS Act , V	Activity sensor #9	OFIS	OFIS	0 to 2 VDC	FP-AI-112-3
51	10F7Ane, V	Anemometer 1	H10	H10 fan 7	-0.5 to 0.5 VDC	FP-AI-112-3
52	10F12Ane, V	Anemometer 2	H10	H10 fan 12	-0.5 to 0.5 VDC	FP-AI-112-3
53	12F7Ane, V	Anemometer 3	H12	H12 fan 7	-0.5 to 0.5 VDC	FP-AI-112-3
59	12F7 T, C	TC T type	H12F7	H12 in front of fan 7	-270 to 390 C	FP-TC-120-1
60	12F12 T, C	TC T type	H12F12	H12 in front of fan 12	-270 to 390 C	FP-TC-120-1
61	12 Mid1 T, C	TC T type	H12 Mid1	H12 room center	-270 to 390 C	FP-TC-120-1
62	12 Mid2 T, C	TC T type	H12 Mid2	H12 room center	-270 to 390 C	FP-TC-120-1
63	12 Mid3 T, C	TC T type	H12 Mid3	H12 room center	-270 to 390 C	FP-TC-120-1
64	12 Mid4 T, C	TC T type	H12 Mid4	H12 room center	-270 to 390 C	FP-TC-120-1
65	12 SBr T, C	TC T type	H12 SBrooder	H12 SW Brooder	-270 to 390 C	FP-TC-120-1
66	12 NBr T, C	TC T type	H12 NBrooder	H12 NW Brooder	-270 to 390 C	FP-TC-120-1
67	12 SIn T, C	TC T type	H12 SInlet	H12 S Inlet	-270 to 390 C	FP-TC-120-2
68	12 NIn T, C	TC T type	H12 NInlet	H12 N Inlet	-270 to 390 C	FP-TC-120-2
69	10F7 T, C	TC T type	H10F7	H10 in front of fan 7	-270 to 390 C	FP-TC-120-2
70	10F12 T, C	TC T type	H10F12	H10 in front of fan 12	-270 to 390 C	FP-TC-120-2
71	10 Mid1 T, C	TC T type	H10 Mid1	H10 room center	-270 to 390 C	FP-TC-120-2
72	10 Mid2 T, C	TC T type	H10 Mid2	H10 room center	-270 to 390 C	FP-TC-120-2
73	10 Mid3 T, C	TC T type	H10 Mid3	H10 room center	-270 to 390 C	FP-TC-120-2

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Data Col#	Data file heading	Instrument, sensor, controller	Sensor location	Monitoring/control location	Range / target	DAC hardware
74	10 Mid4 T, C	TC T type	H10 Mid4	H10 room center	-270 to 390 C	FP-TC-120-2
75	10 SBr T, C	TC T type	H10 SBrooder	H10 SW Brooder	-270 to 390 C	FP-TC-120-3
76	10 NBr T, C	TC T type	H10 NBrooder	H10 NW Brooder	-270 to 390 C	FP-TC-120-3
77	10 SIn T, C	TC T type	H10 SInlet	H10 S Inlet	-270 to 390 C	FP-TC-120-3
78	10 NIn T, C	TC T type	H10 NInlet	H10 N Inlet	-270 to 390 C	FP-TC-120-3
79	Rwy10 T, C	TC T type	RwyH10	Between OFIS and H10	-270 to 390 C	FP-TC-120-3
80	Rwy10 HT, C	TC T type	RwyH10 HT	Between OFIS and H10	-270 to 390 C	FP-TC-120-3
81	Rwy12 T, C	TC T type	RwyH12	Between OFIS and H12	-270 to 390 C	FP-TC-120-3
82	Rwy12 HT, C	TC T type	RwyH12 HT	Between OFIS and H12	-270 to 390 C	FP-TC-120-3
83	OFIS T, C	TC T type	OFIS	DAC Panel	-270 to 390 C	FP-TC-120-4
84	OFIS AC T, C	TC T type	OFIS AC	Wall A/C Exhaust	-270 to 390 C	FP-TC-120-4
85	Beta box T, C	TC T type	Beta Enclosure	Beta Gauge Enclosure	-270 to 390 C	FP-TC-120-4
86	H12 Floor T, C	TC T type	H12 Floor	Manure Pile	-270 to 390 C	FP-TC-120-4
91	10F2, rpm	Fan speed sensor #1	H10F2	House 10 fan 2	0 to 5000 rpm	USB-4303-1
92	10F3, rpm	Fan speed sensor #2	H10F3	House 10 fan 3	0 to 5000 rpm	USB-4303-1
93	10F4, rpm	Fan speed sensor #3	H10F4	House 10 fan 4	0 to 5000 rpm	USB-4303-1
94	10F5, rpm	Fan speed sensor #4	H10F5	House 10 fan 5	0 to 5000 rpm	USB-4303-1
95	10F6, rpm	Fan speed sensor #5	H10F6	House 10 fan 6	0 to 5000 rpm	USB-4303-1
96	10F7, rpm	Fan speed sensor #6	H10F7	House 10 fan 7	0 to 5000 rpm	USB-4303-1
97	10F8, rpm	Fan speed sensor #7	H10F8	House 10 fan 8	0 to 5000 rpm	USB-4303-1
98	10F9, rpm	Fan speed sensor #8	H10F9	House 10 fan 9	0 to 5000 rpm	USB-4303-1
99	10F10, rpm	Fan speed sensor #9	H10F10	House 10 fan 10	0 to 5000 rpm	USB-4303-1
100	10F11, rpm	Fan speed sensor #10	H10F11	House 10 fan 11	0 to 5000 rpm	USB-4303-1
101	10F12, rpm	Fan speed sensor #11	H10F12	House 10 fan 12	0 to 5000 rpm	USB-4303-2
102	12F2, rpm	Fan speed sensor #12	H12F2	House 12 fan 2	0 to 5000 rpm	USB-4303-2
103	12F3, rpm	Fan speed sensor #13	H12F3	House 12 fan 3	0 to 5000 rpm	USB-4303-2
104	12F4, rpm	Fan speed sensor #14	H12F4	House 12 fan 4	0 to 5000 rpm	USB-4303-2
105	12F5, rpm	Fan speed sensor #15	H12F5	House 12 fan 5	0 to 5000 rpm	USB-4303-2
106	12F6, rpm	Fan speed sensor #16	H12F6	House 12 fan 6	0 to 5000 rpm	USB-4303-2
107	12F7, rpm	Fan speed sensor #17	H12F7	House 12 fan 7	0 to 5000 rpm	USB-4303-2
108	12F8, rpm	Fan speed sensor #18	H12F8	House 12 fan 8	0 to 5000 rpm	USB-4303-2
109	12F9, rpm	Fan speed sensor #19	H12F9	House 12 fan 9	0 to 5000 rpm	USB-4303-2
110	12F10, rpm	Fan speed sensor #20	H12F10	House 12 fan 10	0 to 5000 rpm	USB-4303-2
111	12F11, rpm	Fan speed sensor #21	H12F11	House 12 fan 11	0 to 5000 rpm	USB-4303-3
112	12F12, rpm	Fan speed sensor #22	H12F12	House 12 fan 12	0 to 5000 rpm	USB-4303-3
113	Reserved					USB-4303-3
114	Reserved					USB-4303-3

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Data Col#	Data file heading	Instrument, sensor, controller	Sensor location	Monitoring/control location	Range / target	DAC hardware
115	Reserved					USB-4303-3
116	Reserved					USB-4303-3
117	Reserved					USB-4303-3
118	Reserved					USB-4303-3
119	Reserved					USB-4303-3
120	Reserved					USB-4303-3
121	10 Feed, %t	House controller	H10	H10 Feed	0-100%t	DIO 96H/50
122	10 Light 1, %t	House controller	H10	H10 Light 1	0-100%t	DIO 96H/50
123	10 Light 2, %t	House controller	H10	H10 Light 2	0-100%t	DIO 96H/50
124	10 Crtn on, %t	House controller	H10	H10 Tunnel curtain open	0-100%t	DIO 96H/50
125	10 Crtn off, %t	House controller	H10	H10 Tunnel curtain close	0-100%t	DIO 96H/50
126	10 Vn on, %t	House controller	H10	H10 Vent open	0-100%t	DIO 96H/50
127	10 Vn off, %t	House controller	H10	H10 Vent close	0-100%t	DIO 96H/50
128	10 Ht 1, %t	House controller	H10	H10 Heater 1	0-100%t	DIO 96H/50
129	10 Ht 2, %t	House controller	H10	H10 Heater 2	0-100%t	DIO 96H/50
130	10 Ht 3, %t	House controller	H10	H10 Heater 3	0-100%t	DIO 96H/50
131	10 Ht 4, %t	House controller	H10	H10 Heater 4	0-100%t	DIO 96H/50
132	10 Ht 5, %t	House controller	H10	H10 Heater 5	0-100%t	DIO 96H/50
133	10 Cool S, %t	House controller	H10	H10 CoolPad South	0-100%t	DIO 96H/50
134	10 Cool N, %t	House controller	H10	H10 CoolPad North	0-100%t	DIO 96H/50
135	12 Feed, %t	House controller	H12	H12 Feed	0-100%t	DIO 96H/50
136	12 Light 1, %t	House controller	H12	H12 Light 1	0-100%t	DIO 96H/50
137	12 Light 2, %t	House controller	H12	H12 Light 2	0-100%t	DIO 96H/50
138	12 Crtn on, %t	House controller	H12	H12 Tunnel curtain open	0-100%t	DIO 96H/50
139	12 Crtn off, %t	House controller	H12	H12 Tunnel curtain close	0-100%t	DIO 96H/50
140	12 Vn on, %t	House controller	H12	H12 Vent open	0-100%t	DIO 96H/50
141	12 Vn off, %t	House controller	H12	H12 Vent close	0-100%t	DIO 96H/50
142	12 Ht 1, %t	House controller	H12	H12 Heater 1	0-100%t	DIO 96H/50
143	12 Ht 2, %t	House controller	H12	H12 Heater 2	0-100%t	DIO 96H/50
144	12 Ht 3, %t	House controller	H12	H12 Heater 3	0-100%t	DIO 96H/50
145	12 Ht 4, %t	House controller	H12	H12 Heater 4	0-100%t	DIO 96H/50
146	12 Ht 5, %t	House controller	H12	H12 Heater 5	0-100%t	DIO 96H/50
147	12 Cool S, %t	House controller	H12	H12 CoolPad South	0-100%t	DIO 96H/50
148	12 Cool N, %t	House controller	H12	H12 CoolPad North	0-100%t	DIO 96H/50

APPENDIX B. RECORD OF MAINTENANCE AND CALIBRATION.

Maintenance and Calibration Tasks	
Category	**Times Completed**
Environment Sensing and Other	
Clean RH/T probe	99
Calibration check of RH/T probe	3
Calibration check of thermocouples	7
Performance check of weather station	88
Direction verification of wind indicator	3
Clean solar sensor	96
Check solar sensor with collocated sensor	2
Clean motion sensors	95
Air Flow Measurement System	
Fan test events	6
Zero check of pressure sensors (ΔP)	97
Multipoint calibration of pressures sensors (ΔP)	1
Drift & accuracy check of anemometer(s)	3
Particulate Matter Measurement System	
Clean TOEM screens	85
Check/clean TEOM inlet head(s)	100
Replace TEOM filters	76
Verify TEOM mass transducer calibration	8
Leak test of TEOM	8
Verify TEOM flow rate & MFC accuracy	8
Change TEOM in-line filters	9
Check/clean Beta Gauge inlet head	101
Check Beta Gauge airflow	5
Validate Beta Gauge mass w/foil set	4
Calibrate Beta Gauge mass & airflow	5
Gas Measurement System	
Clean/replace GSS membrane filters	59
Leak check of GSS	13
Calibration check of all lines	7
Replace GSS filters	30
Calibrate GSS pressure and flow sensors	7
Flow calibration/check MFC flow of Environics Dilutor	2
Precision check of Multigas Analyzer	54
Multipoint calibration of Multigas Analyzer	17
Precision check of TEC 450I	54
Multipoint calibration of TEC 450I	12

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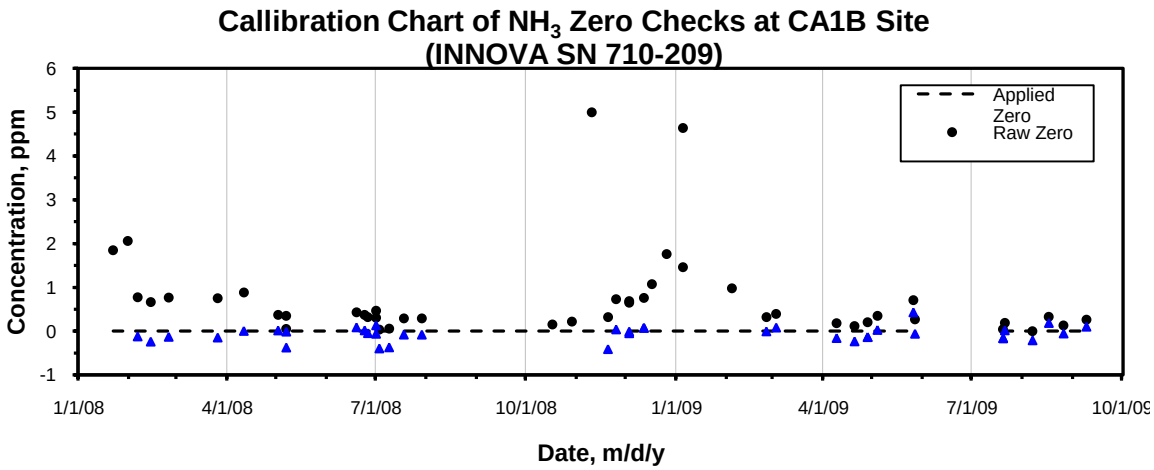
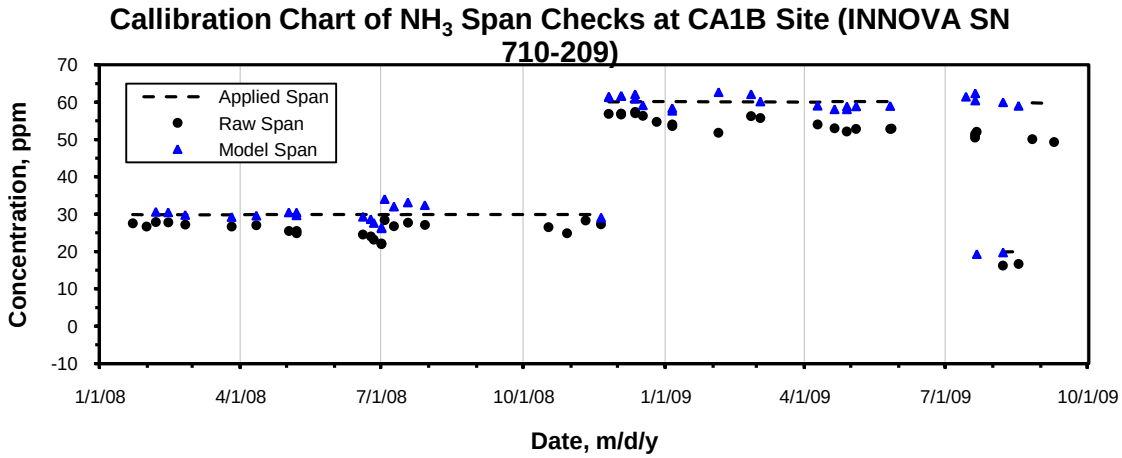
APPENDIX C. GAS ANALYZER CALIBRATIONS.

AMMONIA





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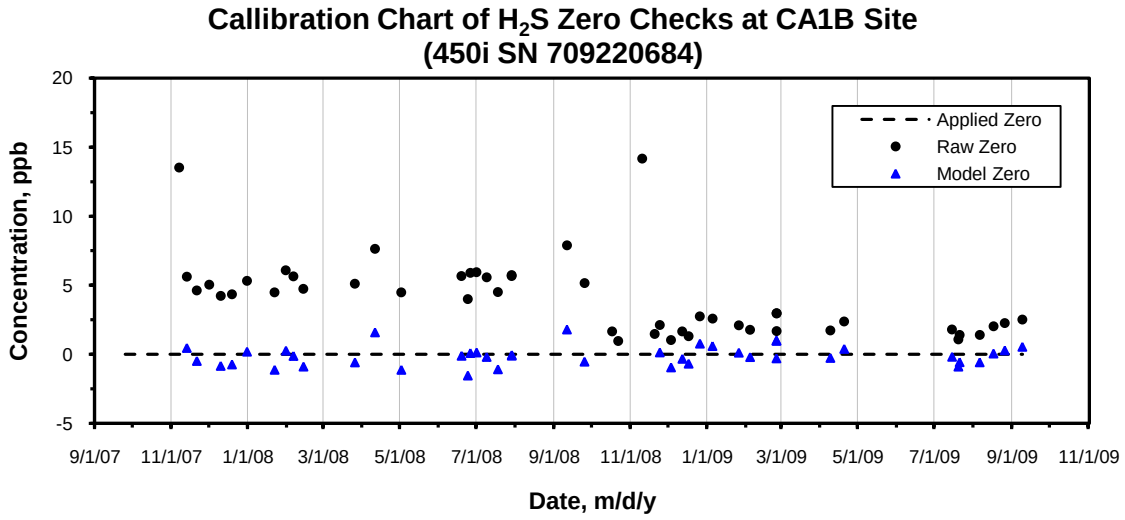
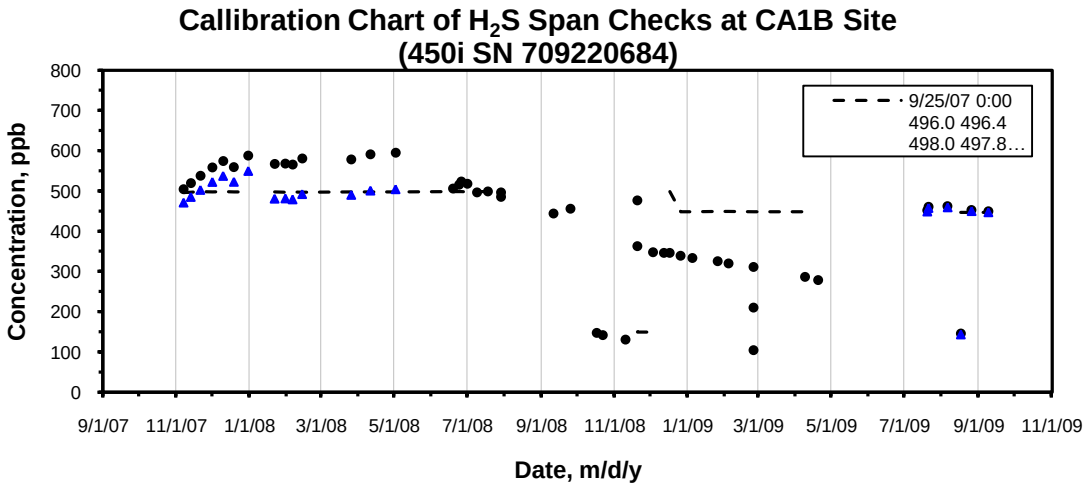
HYDROGEN SULFIDE





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APPENDIX D. MAJOR DATA INVALIDATIONS.

Variable Description	Start Date and Time	End Date and Time	Minutes	Comment
B12 N B T	11/3/07 1:28	11/7/07 16:32	6665	Systematic Error-TC signal temporarily offline
B12 S B T	11/3/07 1:56	11/7/07 17:42	6707	Systematic Error-signal temporarily offline
B10 N In T	11/5/07 10:31	11/10/07 14:32	7442	Systematic Error-signal temporarily offline
B12 PM	11/10/2007 19:52	11/20/2007 14:33	14081	Out of Range-Instrument did not pass mass transducer calibration on 11/10
B10 PM and filter	2/19/08 12:27	2/25/08 13:18	8692	Sampling Elsewhere
B12 PM and filter and atm P	2/19/08 14:22	2/25/08 13:18	8577	Sampling Elsewhere-FN indicate TEOMs moved into trailer during bird removal
B10 Mid3 T	2/21/08 6:38	2/22/08 12:34	1797	Systematic Error-signal temporarily offline
All INNOVA signals	2/22/08 12:27	2/23/08 14:29	1563	Off-FN indicate INNOVA offline to install EtOH filter
Amb PM	2/25/08 17:06	2/29/08 12:11	5466	Systematic Error
B12 PM and filter	3/23/08 16:30	3/25/08 12:44	2655	Systematic Error-Measurement likely affected by dust overload
B10 PM and filter	3/23/08 19:02	3/25/08 12:31	2490	Systematic Error-Measurement likely affected by dust overload
B12 PM and filter and atm P	4/13/08 11:39	4/18/08 14:59	7401	Off-FN indicate TEOM turned off and moved to OFIS while barn was cleaned
B10 PM and filter	4/13/08 11:39	4/18/08 14:59	7401	Off-FN indicate TEOMs turned off and moved into OFIS while barn was cleaned
Raw SO2	4/13/08 23:28	4/15/08 0:22	1495	Sampling Elsewhere
B12 RH and T	4/16/08 9:11	4/18/08 16:19	3309	Systematic Error-RH signal affected by cleaning process
B12 RH and T	4/18/08 15:51	4/20/08 2:24	2074	Systematic Error
All B12 Activity signals	5/6/08 11:22	6/5/08 14:36	43395	Systematic Error-FN indicate signals were in error because of a poor cable connection
B12 PM	5/26/08 1:43	5/28/08 11:50	3488	Pegged
B10 PM	5/27/08 7:58	5/28/08 11:13	1636	Pegged
B12 PM and filter	6/5/08 11:22	6/12/08 11:48	10107	Off-TEOM turned off and moved into OFIS during barn cleaning
B12 PM and filter and atm P	6/5/08 11:42	6/12/08 11:48	10087	Off-TEOM offline and moved into OFIS during barn cleaning
B10 PM and filter	6/5/08 11:42	6/12/08 11:48	10087	Off-TEOM turned off and moved into OFIS during barn cleaning
B10W dP	7/1/08 10:01	7/18/08 10:27	24507	Systematic Error-FN indicate one of the tubes became disconnected
B12 PM and filter	7/29/08 11:12	8/11/08 12:34	18803	Off-FN indicate TEOM turned off and moved into OFIS between cycles
B10 PM and filter	7/29/08 11:12	8/11/08 12:46	18815	Off-FN indicate TEOM turned off and moved into OFIS between cycles
B12 Atm P	7/29/08 11:21	8/11/08 10:28	18668	Off-FN indicate TEOM turned off between cycles
B12 RH and T	8/2/08 6:13	8/11/08 17:45	13653	Failure-FN indicate sensor failure and tip replaced
All INNOVA signals	8/18/08 15:39	8/20/08 3:07	2129	Systematic Error-FN indicate SIT settings were not correct

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Variable Description	Start Date and Time	End Date and Time	Minutes	Comment
All INNOVA signals	8/30/08 11:58	9/2/08 11:15	4278	Failure-FN indicate chopper failure
All INNOVA signals	9/2/08 11:01	10/2/08 15:32	43472	Off-FN indicate INNOVA sent to manufacturer, California Analytical Inst.
B10F12 T	9/14/08 6:19	9/22/08 13:52	11974	Systematic Error-FN indicate sensor problem
B12 PM	9/20/08 15:06	9/22/08 12:19	2714	Pegged-signal exceeds range of analyzer
B12 PM	9/22/08 12:54	9/24/08 13:53	2940	Low Flow-FN indicate flow error with TEOM
B12 PM and filter, atm P	9/25/08 13:58	10/16/08 13:41	30224	Off-FN indicate TEOM turned off between cycles
B10 PM and filter	9/25/08 13:59	10/16/08 14:06	30248	Off-FN indicate TEOMs turned off and moved into OFIS between cycles
All GSS signals	9/27/08 0:01	11/19/08 18:07	77407	Low Flow-FN and calibration data indicate a leak at the GSS
B10 RH and T	9/30/08 12:02	10/2/08 17:33	3212	Systematic Error-systems temporarily showing a lot of noise which may be related to cleaning activities in barn
AirDAC N2O	9/30/08 23:57	10/2/08 15:12	2356	Off-filter offline
B10 PM	11/5/08 11:49	11/7/08 14:05	3017	Pegged-signal exceeds range of analyzer-likely caused by plugged filter
B12 PM	11/5/08 18:55	11/7/08 12:12	2478	Pegged-signal exceeds range of sensor-likely caused by plugged filter
12 Crtn off	11/12/08 9:11	10/22/09 18:24	495914	Failure-FN indicate relay was not working
Amb RH and T	11/22/08 5:40	12/2/08 12:56	14837	Failure-FN indicate the sensor tip failed
B12 PM and filter	11/30/08 3:42	12/2/08 12:06	3385	Low Flow-low flow caused by plugged filter
B10 PM and filter	11/30/08 16:10	12/2/08 11:43	2614	Low Flow-low flow caused by plugged filter
B12 S B T	12/3/08 14:01	12/12/08 14:34	12994	Failure-FN indicate TC failed and was repaired
B12 PM and filter and atm P	12/3/08 14:09	12/12/08 14:12	12964	Off-FN indicate TEOMs offline and moved into OFIS during barn cleaning
B10 PM and filter	12/3/08 14:09	12/12/08 13:38	12930	Off-FN indicate TEOMs offline and moved into OFIS during barn cleaning
B12 N B T	12/10/08 14:03	12/12/08 14:29	2907	Valid-Flagged NOI in error
B12 N B T	12/10/08 14:49	12/12/08 14:29	2861	Noise-signal appears affected by B12 S B T
B12 PM and filter	12/25/08 14:06	12/26/08 16:28	1583	Low Flow-flow error caused by full filter
B12 PM and filter	1/4/09 1:13	1/5/09 12:23	2111	Low Flow-FN indicate filter required changing
B10 RH and T	1/9/09 8:10	1/10/09 22:15	2286	Systematic Error-sensor unstable - tip later changed
All INNOVA signals	1/12/09 17:43	1/15/09 12:48	4026	Failure-FN indicate chopper failure
All INNOVA signals	1/15/09 12:34	1/30/09 12:51	21618	Off-FN indicate INNOVA offline while under repair
B12 PM and filter	1/26/09 11:43	2/5/09 16:25	14683	Off-FN indicate TEOMs off and moved to OFIS between cycles
B10 PM and filter	1/26/09 11:57	2/5/09 16:25	14669	Off-FN indicate TEOM turned off and moved to OFIS between cycles
B12 Atm P	1/26/09 12:14	2/5/09 16:11	14638	Off-FN indicate TEOM offline
B10 Mid1 T	1/29/09 17:03	2/4/09 8:19	8117	Systematic Error-high temperature signal cannot be linked to a heater so it is assumed an error
B10 PM	2/20/09 12:31	2/24/09 20:39	6249	Failure-FN indicate air temperature problem
B10 Filter	2/20/09 12:31	2/24/09 20:39	6249	Failure-FN indicate air temperature problem
B10 PM and filter	2/24/09 20:04	5/11/09 12:46	109003	Off-FN indicate TEOM offline while awaiting pump parts

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Variable Description	Start Date and Time	End Date and Time	Minutes	Comment
B10F12 T	3/26/09 10:58	4/9/09 9:57	20100	Systematic Error-signal temporarily unstable
B12 PM and filter and atm P	3/26/09 11:26	4/9/09 13:10	20265	Off-FN indicate TEOM turned off and moved into trailer between cycles
B10 Mid1 T	3/29/09 20:17	4/9/09 9:35	15199	Systematic Error-signal temporarily unstable
All GSS signals	4/20/09 15:28	4/28/09 11:39	11292	Systematic Error-FN indicate nafion tubing left in system
B12 PM and filter	4/30/09 20:29	5/4/09 12:30	5282	Low Flow-FN indicate filter change alleviated problem
B12 PM	5/22/09 12:25	5/26/09 12:09	5745	Systematic Error-noisy signal may be related to filter
B12 PM and filter	5/26/09 11:49	6/4/09 11:26	12938	Off-FN indicate TEOMs moved to OFIS during barn cleaning
B12 Atm P	5/26/09 11:49	6/4/09 14:41	13133	Off-TEOM offline during barn cleaning
B10 PM and filter	5/26/09 11:49	6/4/09 11:26	12938	Off-FN indicate TEOMs moved to OFIS during barn cleaning
OFIS T	5/26/09 14:34	6/4/09 11:22	12769	Systematic Error-signal temporarily out of range
B10Act4	6/4/09 8:06	7/14/09 17:53	58188	Failure-FN indicate sensor failure
All DIO96H signals	6/4/09 12:17	6/25/09 16:32	30496	DAC-DIO96H module not working properly
All INNOVA signals	6/11/09 13:55	7/14/09 14:41	47567	Off-FN indicate INNOVA offline
B12 Mid4 T	6/26/09 15:22	10/22/09 18:01	170080	Failure-FN indicate TC is not operating properly
B12 PM and filter	7/13/09 0:12	8/3/09 14:43	31112	Low Flow-FN indicate TEOM pump failure
B12 Atm P	7/14/09 12:50	8/16/09 13:39	47570	Off-TEOM offline
AirDAC N2O	7/14/09 13:09	7/21/09 9:32	9864	Off-FN indicate TOC measurement in place of N2O
B10 PM and filter	7/20/09 15:22	7/27/09 13:51	9990	Off-FN indicate TEOM offline during barn cleaning
B12 PM and filter	8/3/09 14:02	8/16/09 15:47	18826	Failure-FN indicate TEOM battery and software problem
B10 PM	8/4/09 11:24	8/16/09 14:59	17496	Systematic Error-noisy signal suggests filter was not seated properly
USB-4303 signals	8/4/09 12:12	8/7/09 12:18	4327	DAC-FN indicate USB module problem
All DIO96H signals	8/26/09 16:23	9/9/09 13:20	19978	DAC-FN indicate problem with DIO module
OFIS dP	9/10/09 7:39	10/21/09 9:10	59132	Off-sensor uninstalled and used as replacement elsewhere
B12Act4	9/10/09 9:38	10/21/09 11:11	59134	Off-FN indicate sensor uninstalled
B12 PM and filter	9/10/09 18:40	9/13/09 13:53	4034	Sampling Elsewhere-FN indicate TEOM collocated in B10
B12 PM and filter	9/13/09 13:19	9/26/09 14:16	18778	Off-FN indicate TEOMs moved into OFIS during barn cleaning
B10 PM and filter	9/13/09 13:19	9/26/09 14:16	18778	Off-FN indicate TEOMs moved to OFIS during barn cleaning
B12 Atm P	9/13/09 13:37	9/26/09 12:49	18673	Off-FN indicate TEOM offline during barn cleaning
B12 PM and filter	9/26/09 13:12	10/22/09 13:06	37435	Sampling Elsewhere-FN indicate TEOM in B10 for collocation

APPENDIX E. DAILY MEANS.

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

Table E1. Daily means (SD) of weather parameters at Site CA1B for September, 2007.

Day	Temp, ºC		RH, %	WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	29.0	(5.0)		3.52	(1.61)	332	(124)				
2	27.6	(5.5)		3.27	(1.38)	331	(112)				
3	26.7	(5.2)		3.50	(1.61)	336	(134)				
4	22.3	(4.3)		4.74	(1.23)	324	(59)				
5	21.6	(4.9)		3.59	(2.03)	308	(71)				
6	25.2	(6.3)		2.02	(1.26)	356	(112)				
7	20.6	(4.0)		4.58	(1.30)	324	(36)				
8	22.0	(5.6)		3.77	(1.03)	324	(50)				
9	21.6	(4.6)		4.49	(0.98)	329	(39)				
10	22.2	(4.7)		3.62	(1.19)	332	(65)				
11	22.3	(4.6)		4.35	(1.23)	323	(19)				
12	19.3	(3.8)		5.85	(1.73)	319	(20)				
13	19.0	(4.1)		3.62	(1.40)	336	(104)				
14	20.2	(4.3)		2.91	(1.21)	337	(129)				
15	19.2	(4.3)		3.58	(1.50)	321	(52)			101.1	(0.0)
16	18.7	(4.1)		4.14	(1.53)	327	(74)			101.0	(0.0)
17	19.5	(4.6)		3.06	(1.97)	330	(121)			100.9	(0.0)
18	20.5	(6.1)		2.87	(1.93)	45	(109)			100.7	(0.1)
19	15.9	(3.7)		3.47	(2.06)	31	(100)			100.7	(0.0)
20	14.9	(4.8)		1.57	(1.08)	325	(113)			100.7	(0.0)
21	19.0	(5.1)		1.85	(0.96)	347	(104)			100.7	(0.1)
22	17.1	(2.2)		2.33	(1.31)	210	(94)			101.0	(0.1)
23	17.5	(3.4)		2.30	(1.76)	319	(114)			101.2	(0.1)
24	18.1	(5.1)		2.34	(1.31)	321	(114)			101.3	(0.0)
25	19.9	(5.9)		2.06	(1.18)	328	(131)			101.2	(0.0)
26	22.2	(6.1)		1.64	(0.85)	351	(143)			100.9	(0.1)
27	22.4	(5.7)		1.83	(1.27)	354	(125)			100.7	(0.0)
28	16.6	(3.0)		3.71	(1.39)	321	(106)	153	(257)	100.9	(0.1)
29	15.1	(4.5)		4.60	(2.66)	308	(60)	216	(296)	101.2	(0.0)
30	17.7	(7.3)		2.14	(1.61)	117	(98)	208	(289)	101.3	(0.1)
Avg	20.5			3.24		333		193		101.0	
n	30		0	30		30		3		16	
SD	3.4			1.06		83		28		0.2	
Min	14.9			1.57		31		153		100.7	
Max	29.0			5.85		356		216		101.3	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for October, 2007.

Day	Temp, ºC		RH, %	WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	17.8	(3.4)		4.27	(2.06)	324	(105)	187	(284)	101.4	(0.0)
2	18.8	(5.9)		1.68	(1.23)	336	(127)	205	(285)	101.1	(0.1)
3	19.1	(5.7)		2.54	(1.62)	357	(124)	202	(284)	100.8	(0.1)
4	15.0	(3.5)		5.30	(2.16)	321	(106)	195	(275)	100.9	(0.1)
5	13.5	(2.9)		2.99	(1.94)	327	(114)	175	(262)	101.4	(0.2)
6										101.6	(0.0)
7										101.2	(0.2)
8										100.8	(0.0)
9										101.1	(0.2)
10										101.1	(0.1)
11										100.8	(0.1)
12	14.7	(1.8)		2.20	(1.47)	282	(97)	69	(153)	100.8	(0.1)
13	16.2	(3.0)		2.19	(1.29)	315	(95)	169	(262)	101.0	(0.0)
14	17.6	(4.9)		1.47	(0.91)	84	(100)	179	(261)	100.9	(0.0)
15	16.0	(2.8)		3.72	(1.30)	328	(107)	139	(233)	100.9	(0.0)
16	15.5	(2.3)		3.18	(1.21)	15	(109)	125	(218)	101.1	(0.1)
17	15.1	(2.5)		2.21	(1.29)	319	(111)	140	(228)	101.5	(0.1)
18	16.7	(3.9)		2.30	(1.28)	333	(122)	171	(257)	101.4	(0.1)
19	18.1	(4.4)		1.90	(1.38)	11	(123)	172	(253)	101.4	(0.1)
20	14.9	(2.5)		6.14	(2.87)	324	(80)	160	(249)	101.7	(0.1)
21	13.4	(4.7)		3.01	(2.24)	325	(101)	176	(257)	102.1	(0.1)
22	16.9	(6.7)		1.23	(0.76)	114	(71)	170	(256)	102.0	(0.1)
23	18.1	(6.2)		1.42	(1.06)	341	(119)	168	(251)	101.7	(0.1)
24	19.9	(6.7)		1.19	(0.70)	23	(115)	167	(248)	101.1	(0.2)
25	18.5	(5.6)		1.28	(1.04)	330	(108)	150	(224)	100.8	(0.0)
26	16.0	(4.4)		2.02	(0.78)	310	(37)	162	(237)	101.1	(0.2)
27	17.7	(5.3)		1.44	(0.79)	313	(89)	132	(217)	101.6	(0.1)
28	19.5	(4.4)		2.14	(0.88)	304	(76)	143	(228)	101.6	(0.1)
29	18.4	(4.3)		1.87	(1.60)	11	(118)	125	(219)	101.6	(0.1)
30	14.7	(2.8)		3.03	(1.34)	340	(102)	135	(217)	101.7	(0.0)
31	14.2	(3.5)		1.39	(0.85)	308	(108)	118	(194)	101.6	(0.1)
Avg	16.7			2.48		336		157		101.3	
n	25		0	25		25		25		31	
SD	1.9			1.24		122		30		0.4	
Min	13.4			1.19		11		69		100.8	
Max	19.9			6.14		357		205		102.1	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for November, 2007.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	13.7	(4.3)			1.92	(1.30)	317	(100)	120	(208)	101.5	(0.0)
2	15.8	(4.6)			1.40	(0.90)	42	(105)	145	(221)	101.6	(0.0)
3	16.0	(5.8)			0.96	(0.60)	69	(101)	146	(228)	101.5	(0.0)
4	15.4	(5.5)			0.79	(0.67)	32	(111)	143	(224)	101.3	(0.1)
5	15.7	(5.7)			1.07	(0.84)	322	(111)	140	(218)	101.2	(0.0)
6	14.6	(4.7)			1.71	(0.95)	321	(95)	122	(211)	101.2	(0.0)
7	15.3	(6.1)			0.84	(0.60)	20	(122)	127	(209)	101.2	(0.0)
8	13.4	(3.2)			2.98	(1.44)	334	(86)	96	(183)	101.2	(0.0)
9	14.5	(3.5)			1.68	(0.94)	315	(115)	116	(200)	101.3	(0.0)
10	15.0	(5.1)			0.81	(0.78)	60	(107)	99	(181)	101.2	(0.0)
11	13.9	(2.0)	78.8	(10.4)	4.14	(2.58)	335	(109)	70	(145)	101.5	(0.2)
12	12.3	(4.8)	74.2	(10.1)	1.24	(1.02)	83	(101)	137	(220)	101.8	(0.0)
13	14.5	(4.1)	77.8	(8.7)	2.05	(1.66)	322	(109)	131	(207)	101.6	(0.1)
14											101.4	(0.0)
15	15.6	(4.7)	78.2	(12.0)	1.29	(0.89)	27	(121)	126	(207)	101.4	(0.0)
16	15.3	(2.7)	77.6	(10.0)	2.32	(1.19)	335	(100)	120	(209)	101.5	(0.0)
17	13.3	(4.0)	81.1	(11.0)	1.57	(1.16)	342	(137)	131	(213)	101.5	(0.0)
18	13.6	(4.8)	80.5	(12.1)	0.85	(0.77)	355	(139)	132	(213)	101.5	(0.0)
19	14.3	(3.4)	79.4	(10.8)	2.03	(1.03)	338	(133)	117	(196)	101.5	(0.0)
20	10.2	(3.0)	67.6	(15.3)	3.39	(1.30)	301	(42)	135	(217)	101.5	(0.0)
21	9.0	(4.9)	58.8	(16.3)	1.34	(1.04)	349	(130)	130	(210)	101.5	(0.0)
22											101.4	(0.0)
23											101.4	(0.0)
24	8.6	(5.5)	59.8	(19.3)	1.22	(0.89)	140	(81)	111	(193)	101.4	(0.0)
25	8.4	(3.3)	69.3	(9.0)	1.24	(0.89)	320	(112)	55	(108)	101.6	(0.1)
26	9.1	(5.6)	68.1	(15.7)	0.83	(0.53)	87	(86)	112	(186)	101.8	(0.0)
27	9.3	(3.9)	66.9	(10.8)	2.62	(1.58)	295	(95)	82	(147)	101.9	(0.1)
28	8.9	(4.4)	58.5	(12.0)	1.24	(1.14)	50	(112)	118	(191)	101.8	(0.2)
29	8.5	(4.2)	70.8	(12.0)	1.41	(1.21)	46	(107)	106	(183)	101.1	(0.2)
30	7.3	(3.4)	59.4	(17.1)	3.02	(2.50)	337	(120)	119	(203)	100.8	(0.1)
Avg	12.6		71.0		1.70		359		118		101.4	
n	27		17		27		27		27		30	
SD	2.9		8.0		0.86		134		22		0.2	
Min	7.3		58.5		0.79		20		55		100.8	
Max	16.0		81.1		4.14		355		146		101.9	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for December, 2007.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	6.3	(4.3)	64.7	(13.6)	2.15	(0.85)	114	(21)	111	(190)	101.7	(0.4)
2	8.1	(5.1)	53.4	(13.4)	2.84	(1.48)	126	(24)	136	(199)	102.5	(0.1)
3	10.2	(5.0)	48.0	(11.4)	1.52	(0.96)	111	(59)	150	(200)	102.5	(0.1)
4	11.6	(1.8)	76.4	(13.5)	2.76	(1.51)	307	(95)	60	(79)	101.9	(0.3)
5	12.1	(2.3)	85.2	(8.3)	1.91	(1.13)	332	(113)	105	(147)	101.1	(0.2)
6	10.5	(1.6)	90.3	(2.0)	3.07	(2.26)	123	(22)	31	(36)	100.7	(0.0)
7	11.1	(1.9)	78.5	(10.2)	3.60	(1.56)	269	(56)	57	(90)	101.0	(0.1)
8	6.3	(2.6)	78.3	(11.1)	2.30	(1.61)	327	(108)	133	(191)	101.4	(0.1)
9	6.2	(3.7)	72.5	(12.7)	1.37	(1.09)	11	(113)	138	(199)	101.4	(0.1)
10	7.4	(3.3)	78.0	(10.8)	1.61	(0.92)					101.5	(0.2)
11											102.1	(0.2)
12	6.0	(3.8)	69.5	(8.0)	1.31	(0.77)	78	(96)	111	(175)	102.2	(0.1)
13	5.3	(4.0)	72.4	(11.9)	1.35	(0.93)	32	(113)	126	(180)	102.0	(0.0)
14	6.1	(4.6)	71.6	(13.6)	1.29	(0.68)	107	(49)	121	(173)	102.1	(0.0)
15	6.8	(3.8)	78.1	(10.7)	1.03	(0.95)	20	(123)	126	(178)	101.8	(0.2)
16	6.7	(4.2)	82.2	(10.2)	1.52	(0.87)	105	(69)	109	(164)	101.4	(0.0)
17	9.6	(1.5)	80.7	(3.9)	2.51	(0.88)	134	(16)	66	(85)	101.4	(0.0)
18	11.1	(1.0)	88.5	(2.2)	3.14	(1.32)	134	(49)	34	(34)	101.6	(0.2)
19	11.7	(1.8)	81.5	(7.0)	1.77	(0.75)	103	(101)	112	(159)	101.8	(0.0)
20	10.0	(2.1)	79.3	(11.8)	4.72	(1.33)	260	(75)	119	(190)	102.0	(0.2)
21	4.9	(2.6)	73.2	(10.4)	2.90	(1.78)	333	(107)	111	(174)	102.5	(0.2)
22	5.7	(4.0)	76.1	(12.3)	1.17	(0.68)	182	(94)	117	(183)	102.8	(0.0)
23	5.3	(3.6)	83.5	(10.9)	1.33	(0.68)	83	(101)	103	(159)	102.6	(0.1)
24	7.1	(2.9)	77.2	(13.8)	4.10	(2.63)	317	(94)	88	(146)	102.4	(0.0)
25	5.8	(2.8)	72.0	(8.8)	2.01	(1.34)	128	(80)	124	(183)	102.2	(0.1)
26	6.1	(2.6)	68.3	(18.4)	5.24	(3.18)	328	(93)	121	(185)	102.1	(0.0)
27	4.8	(2.3)	63.2	(9.4)	3.01	(1.65)	18	(111)	94	(140)	102.1	(0.1)
28	5.2	(1.3)	80.4	(6.4)	2.46	(1.48)	113	(62)	25	(43)	102.0	(0.0)
29	8.5	(2.7)	78.8	(7.5)	1.45	(0.85)	119	(41)	49	(98)	102.1	(0.1)
30	8.1	(2.2)	87.0	(2.3)	3.20	(1.87)	315	(78)	38	(80)	102.3	(0.0)
31	4.6	(2.8)	79.6	(8.1)	1.87	(0.99)	22	(111)	81	(151)	102.2	(0.1)
Avg	7.6		75.6		2.35		65		96		101.9	
n	30		30		30		29		29		31	
SD	2.3		9.2		1.06		108		35		0.5	
Min	4.6		48.0		1.03		11		25		100.7	
Max	12.1		90.3		5.24		333		150		102.8	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for January, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	3.4	(2.8)	89.1	(3.3)	1.05	(0.84)	339	(112)	74	(142)	101.8	(0.2)
2	4.8	(5.1)	79.8	(12.5)	1.19	(0.82)	132	(63)	94	(180)	101.3	(0.1)
3	10.0	(3.7)	66.5	(14.4)	1.79	(1.24)	133	(41)	24	(91)	100.6	(0.3)
4	10.8	(1.1)	80.0	(9.7)	6.74	(3.69)	123	(58)	-8	(17)	100.3	(0.1)
5	8.3	(1.6)	85.7	(3.9)	3.64	(1.82)	134	(50)	18	(68)	100.7	(0.1)
6	8.4	(2.0)	80.3	(9.3)	1.69	(0.93)	116	(56)	75	(166)	101.2	(0.2)
7	7.5	(2.5)	76.9	(11.0)	2.06	(1.54)	332	(119)	110	(184)	101.7	(0.1)
8	7.3	(1.7)	83.0	(3.1)	3.12	(1.59)	130	(31)	8	(55)	101.9	(0.1)
9	7.8	(1.4)	88.4	(1.6)	1.61	(1.41)	320	(105)			102.0	(0.0)
10	9.3	(1.3)	88.2	(3.8)	1.53	(0.86)	121	(55)	23	(60)	102.0	(0.0)
11	9.1	(0.9)	90.1	(1.9)	1.32	(1.08)	303	(99)	12	(43)	102.1	(0.0)
12	10.2	(1.6)	82.9	(6.5)	1.76	(1.21)	305	(84)	95	(177)	102.2	(0.0)
13	10.3	(2.4)	80.3	(9.7)	0.78	(0.61)	99	(83)	77	(139)	102.3	(0.0)
14	7.7	(3.8)	85.2	(8.5)	1.27	(0.96)	48	(105)	112	(190)	102.1	(0.1)
15	5.0	(1.5)	92.3	(1.9)	1.31	(1.32)	313	(104)	39	(78)	101.8	(0.1)
16	5.4	(3.0)	76.1	(10.7)	1.72	(1.11)	331	(104)	117	(187)	101.8	(0.1)
17	5.6	(4.4)	69.5	(17.9)	0.98	(0.72)	117	(76)	131	(209)	101.9	(0.0)
18	6.8	(4.9)	74.1	(14.0)	0.89	(0.59)	94	(71)	127	(205)	102.0	(0.0)
19	7.6	(5.1)	74.7	(12.5)	0.92	(0.55)	101	(83)	128	(202)	101.6	(0.3)
20	6.4	(3.3)	76.7	(10.8)	2.42	(2.01)	16	(112)	103	(182)	101.2	(0.0)
21	7.1	(2.2)	77.3	(8.1)	2.35	(1.32)	132	(31)	62	(126)	101.3	(0.1)
22	7.6	(0.9)	83.9	(3.1)	2.78	(1.54)	114	(72)	36	(92)	101.2	(0.1)
23	6.8	(1.1)	86.0	(1.9)	1.81	(1.20)	194	(88)	17	(50)	100.8	(0.1)
24	6.5	(1.9)	78.9	(5.6)	5.13	(1.35)	129	(7)	39	(81)	100.7	(0.1)
25	12.0	(1.8)	64.2	(6.9)	5.84	(1.33)	127	(4)	24	(64)	100.9	(0.0)
26	13.7	(1.9)	56.4	(8.0)	4.31	(1.92)	122	(29)	90	(164)	100.5	(0.3)
27	11.7	(1.1)	77.3	(4.4)	5.11	(2.10)	138	(38)	41	(114)	100.7	(0.4)
28					2.32	(1.66)	303	(105)	133	(228)	101.7	(0.2)
29	5.3	(2.3)	75.6	(4.4)	2.23	(1.18)	106	(44)	47	(87)	102.2	(0.1)
30	7.0	(2.0)	71.0	(8.5)	2.00	(1.53)	345	(112)	139	(226)	102.2	(0.0)
31	8.0	(1.7)	73.4	(5.2)	2.98	(1.50)	130	(50)	50	(104)	102.1	(0.1)
Avg	7.9		78.8		2.41		101		68		101.5	
n	30		30		31		31		30		31	
SD	2.3		8.0		1.52		98		44		0.6	
Min	3.4		56.4		0.78		16		-8		100.3	
Max	13.7		92.3		6.74		345		139		102.3	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for February, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	7.2	(1.9)	74.8	(3.7)	2.48	(1.41)	328	(104)	114	(186)	101.7	(0.1)
2											101.1	(0.3)
3											101.1	(0.3)
4											102.0	(0.2)
5	6.4	(4.4)	68.4	(10.8)	1.17	(0.72)	142	(83)	161	(237)	102.3	(0.0)
6	8.2	(3.9)	73.7	(3.2)	2.48	(1.84)	352	(125)	160	(231)	102.3	(0.0)
7	9.0	(4.4)	70.9	(6.1)	1.51	(1.12)	339	(119)	166	(231)	102.1	(0.1)
8	8.8	(3.6)	70.5	(6.3)	1.95	(1.02)	1	(133)	152	(226)	101.9	(0.1)
9	10.7	(5.0)	71.4	(6.0)	0.99	(0.63)	86	(100)	180	(234)	101.8	(0.0)
10	11.0	(4.8)	69.7	(5.3)	1.49	(1.05)	34	(111)	180	(238)	101.8	(0.0)
11	11.6	(4.4)	69.9	(5.7)	1.37	(1.02)	55	(111)	186	(239)	101.7	(0.1)
12	12.9	(5.0)	68.4	(7.5)	1.23	(0.67)	87	(84)	186	(241)	101.2	(0.2)
13	10.9	(2.9)	54.8	(17.1)	5.59	(4.03)	341	(110)	165	(215)	101.0	(0.1)
14	9.1	(3.0)	43.9	(9.1)	7.43	(2.84)	323	(29)	191	(262)	101.5	(0.1)
15	8.4	(5.1)	60.4	(14.1)	2.03	(0.84)	117	(46)	201	(253)	101.8	(0.0)
16	10.0	(5.0)	60.9	(14.5)	1.62	(0.88)	359	(123)	198	(262)	101.7	(0.1)
17	11.1	(5.2)	63.2	(13.2)	0.85	(0.54)	58	(97)	200	(253)	101.5	(0.1)
18	10.4	(4.1)	68.7	(4.9)	2.40	(0.97)	328	(85)	184	(246)	101.4	(0.0)
19	10.1	(2.3)	69.6	(2.7)	2.23	(1.18)	335	(118)	77	(126)	101.4	(0.0)
20	11.4	(2.3)	66.9	(5.0)	1.77	(1.06)	6	(107)	151	(250)	101.1	(0.1)
21	9.9	(2.5)	70.3	(3.2)	3.98	(1.98)	126	(28)	40	(108)	100.9	(0.0)
22	10.0	(1.0)	68.4	(2.8)	1.90	(1.04)	72	(106)			100.9	(0.0)
23	8.7	(2.8)	67.2	(4.1)	4.18	(2.29)	123	(13)	31	(78)	101.1	(0.1)
24	11.5	(1.6)	66.5	(4.7)	4.31	(2.06)	126	(32)	49	(103)	101.8	(0.3)
25	10.8	(3.1)	64.4	(5.7)	2.47	(1.83)	326	(105)	177	(268)	102.2	(0.1)
26	11.9	(5.1)	63.7	(5.3)	0.61	(0.52)	57	(107)	163	(251)	101.9	(0.1)
27	12.4	(4.3)	62.4	(4.9)	1.72	(1.27)	333	(122)	176	(260)	101.4	(0.1)
28	13.4	(5.4)	60.5	(6.2)	0.91	(0.63)	84	(91)	198	(288)	101.3	(0.1)
29	14.8	(5.7)	58.8	(8.1)	1.74	(1.27)	79	(106)	176	(275)	101.6	(0.1)
Avg	10.4		65.7		2.32		36		155		101.6	
n	26		26		26		26		25		29	
SD	1.9		6.4		1.55		130		50		0.4	
Min	6.4		43.9		0.61		1		31		100.9	
Max	14.8		74.8		7.43		359		201		102.3	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for March, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	11.7	(2.3)	61.1	(7.4)	5.35	(2.20)	321	(24)	157	(259)	101.9	(0.0)
2	10.7	(4.2)	58.4	(12.7)	3.14	(2.04)	330	(107)	210	(303)	102.0	(0.1)
3	12.0	(5.8)	57.8	(10.5)	1.37	(0.83)	117	(66)	211	(295)	101.9	(0.2)
4	11.7	(4.9)	61.3	(8.3)	2.33	(1.66)	331	(120)	217	(301)	101.5	(0.0)
5	11.1	(4.3)	59.2	(12.6)	2.43	(1.54)	335	(129)	220	(308)	101.8	(0.1)
6	12.3	(4.2)	66.7	(4.7)	1.50	(0.91)	3	(113)	138	(221)	102.1	(0.0)
7	13.1	(4.9)	62.6	(5.6)	1.53	(0.83)	326	(118)	184	(267)	101.9	(0.1)
8	12.9	(3.8)	62.6	(10.4)	3.77	(2.09)	331	(125)	210	(295)	101.7	(0.0)
9	13.7	(6.1)	60.0	(13.9)	0.95	(0.77)	79	(97)	234	(313)	101.8	(0.1)
10	15.7	(5.7)	57.6	(11.7)	1.46	(1.01)	67	(107)	199	(289)	102.0	(0.0)
11	14.6	(3.5)	67.4	(4.3)	3.19	(1.51)	330	(94)	172	(260)	101.8	(0.1)
12	13.6	(3.8)	64.7	(7.5)	2.98	(1.95)	338	(122)	190	(289)	101.6	(0.0)
13	15.1	(3.1)	62.2	(8.8)	2.75	(2.19)	327	(109)	181	(278)	101.6	(0.0)
14	10.6	(3.6)	60.7	(7.7)	2.92	(2.08)	315	(119)	206	(315)	101.4	(0.2)
15	9.5	(2.4)	64.1	(7.9)	3.23	(2.29)	332	(112)	185	(291)	101.2	(0.0)
16	10.5	(4.6)	52.8	(17.0)	7.83	(2.64)	318	(15)	246	(326)	101.5	(0.2)
17	10.8	(5.6)	54.6	(15.1)	1.93	(1.30)	346	(119)	245	(325)	101.9	(0.0)
18	14.1	(6.0)	61.7	(10.9)	1.55	(0.87)	61	(104)	232	(319)	101.8	(0.1)
19	13.3	(4.1)	61.7	(6.0)	2.67	(1.45)	334	(136)	245	(326)	101.9	(0.1)
20	11.5	(3.7)	56.8	(10.7)	3.66	(1.31)	327	(85)	250	(330)	102.1	(0.1)
21	11.5	(5.1)	58.6	(11.8)	4.12	(1.91)	318	(40)	249	(326)	102.1	(0.1)
22	12.9	(6.8)	57.8	(14.3)	1.22	(0.68)	7	(119)	255	(333)	101.9	(0.1)
23	15.0	(6.2)	54.9	(14.5)	1.85	(1.24)	356	(133)	265	(339)	101.6	(0.1)
24											101.6	(0.1)
25	14.6	(4.0)	61.0	(8.5)	3.60	(1.17)	331	(72)	155	(254)	101.9	(0.1)
26	11.8	(3.8)	59.9	(10.1)	4.50	(1.89)	325	(51)	262	(333)	102.0	(0.0)
27											101.6	(0.2)
28	13.3	(4.1)	58.1	(13.6)	2.05	(0.99)	342	(133)	238	(331)	101.1	(0.1)
29	13.4	(2.3)	63.2	(6.6)	2.88	(1.21)	318	(75)	139	(182)	101.2	(0.1)
30	11.0	(4.0)	59.8	(12.6)	2.57	(1.24)	313	(84)	210	(323)	101.4	(0.1)
31	10.8	(4.9)	59.3	(12.7)	1.84	(1.32)	330	(119)	271	(341)	101.4	(0.1)
Avg	12.5		60.2		2.80		341		213		101.7	
n	29		29		29		29		29		31	
SD	1.6		3.3		1.41		113		37		0.3	
Min	9.5		52.8		0.95		3		138		101.1	
Max	15.7		67.4		7.83		356		271		102.1	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for April, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	13.7	(5.1)	53.6	(15.8)	1.54	(0.80)	352	(134)	268	(348)	101.3	(0.0)
2	13.9	(4.1)	60.6	(11.3)	1.81	(0.93)	307	(94)	165	(236)	101.5	(0.1)
3	15.2	(4.7)	57.5	(13.1)	2.46	(1.21)	335	(133)	275	(347)	101.6	(0.0)
4	14.2	(5.1)	55.3	(16.0)	3.21	(1.73)	340	(122)	251	(329)	101.4	(0.1)
5	12.2	(4.4)	60.3	(10.0)	4.19	(1.36)	327	(82)	295	(346)	101.3	(0.1)
6											101.5	(0.0)
7											101.4	(0.1)
8											101.2	(0.0)
9											101.4	(0.1)
10											101.6	(0.0)
11											101.6	(0.0)
12	21.6	(7.3)	50.0	(16.1)	1.19	(0.63)	22	(115)	298	(365)	101.3	(0.1)
13	23.4	(7.5)	43.8	(15.1)	1.44	(0.85)	79	(105)	298	(359)	101.2	(0.0)
14	14.4	(3.6)	56.0	(12.0)	5.28	(2.47)	322	(76)	274	(340)	101.4	(0.1)
15	10.9	(4.3)	54.4	(17.0)	4.66	(2.27)	320	(76)	268	(355)	101.5	(0.0)
16	14.0	(6.1)	49.8	(17.1)	3.53	(1.97)	321	(98)	276	(364)	101.4	(0.0)
17	17.9	(7.5)	47.5	(19.2)	1.34	(0.78)	111	(73)	286	(358)	101.1	(0.2)
18	17.9	(6.2)	53.3	(15.3)	2.20	(1.33)	351	(123)	252	(339)	100.9	(0.0)
19	11.3	(4.2)	55.7	(14.0)	4.00	(2.41)	329	(130)	282	(351)	101.3	(0.2)
20	8.7	(4.2)	55.0	(16.1)	3.51	(1.98)	323	(115)	289	(358)	101.7	(0.0)
21	9.7	(5.0)	56.8	(15.3)	2.72	(1.38)	338	(134)	284	(353)	101.5	(0.1)
22	12.3	(3.7)	62.1	(11.4)	1.91	(1.08)	320	(98)	153	(257)	101.4	(0.0)
23	12.7	(3.3)	58.1	(8.7)	3.55	(2.05)	319	(105)	195	(296)	101.7	(0.1)
24	12.3	(5.7)	54.3	(15.9)	4.65	(2.22)	320	(67)	291	(363)	101.9	(0.0)
25	16.2	(6.3)	50.8	(15.9)	3.21	(1.86)	333	(125)	292	(356)	101.7	(0.1)
26	19.9	(6.4)	51.9	(14.4)	2.83	(1.58)	333	(125)	296	(358)	101.4	(0.0)
27	23.0	(6.6)	47.8	(14.6)	1.89	(1.06)	353	(137)	300	(362)	101.2	(0.1)
28	21.0	(5.3)	50.3	(13.3)	3.34	(1.39)	335	(136)	259	(322)	101.2	(0.0)
29	14.1	(3.4)	58.7	(10.1)	5.84	(1.83)	310	(59)	307	(365)	101.3	(0.0)
30	12.4	(4.4)	51.5	(19.6)	6.29	(2.73)	316	(52)	309	(370)	101.3	(0.0)
Avg	15.1		54.0		3.19		335		269		101.4	
n	24		24		24		24		24		30	
SD	4.1		4.4		1.41		87		41		0.2	
Min	8.7		43.8		1.19		22		153		100.9	
Max	23.4		62.1		6.29		353		309		101.9	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for May, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	15.0	(5.8)	47.6	(19.0)	3.92	(1.68)	318	(90)	311	(373)	101.2	(0.0)
2	17.0	(5.7)	47.1	(13.5)	2.23	(1.40)	355	(133)	244	(319)	101.1	(0.1)
3	16.6	(5.7)	57.6	(13.8)	3.69	(1.05)	324	(91)	298	(364)	100.7	(0.1)
4	17.3	(5.5)	59.3	(13.4)	3.12	(2.05)	324	(121)	294	(367)	100.5	(0.1)
5	18.6	(6.3)	57.4	(14.3)	2.08	(0.92)	339	(133)	303	(363)	100.7	(0.1)
6	18.7	(5.5)	59.9	(10.3)	3.27	(1.08)	322	(79)	302	(360)	100.9	(0.0)
7	16.9	(3.6)	59.4	(10.4)	3.97	(1.97)	334	(129)	307	(367)	100.9	(0.0)
8	18.4	(5.3)	54.0	(13.9)	2.32	(1.34)	332	(137)	308	(365)	100.9	(0.0)
9	16.8	(5.2)	55.7	(13.1)	4.31	(1.50)	326	(102)	306	(361)	100.9	(0.0)
10	19.2	(6.0)	52.1	(14.7)	2.75	(0.90)	330	(121)	307	(364)	100.9	(0.1)
11	18.6	(4.5)	56.1	(12.5)	3.61	(1.21)	327	(113)	298	(348)	100.8	(0.0)
12	17.7	(4.6)	46.1	(17.3)	5.81	(2.49)	313	(32)	315	(374)	100.9	(0.1)
13	20.7	(6.7)	42.5	(18.5)	3.93	(1.39)	312	(75)	323	(379)	101.1	(0.0)
14	23.7	(5.4)	47.3	(9.2)	2.15	(1.23)	312	(97)	276	(353)	100.9	(0.1)
15	26.5	(6.6)	52.3	(15.8)	1.51	(0.97)	309	(104)	301	(359)	100.9	(0.1)
16											101.1	(0.0)
17											101.0	(0.1)
18											100.8	(0.1)
19											100.8	(0.0)
20	20.9	(4.7)	52.3	(13.3)	4.72	(2.41)	307	(65)	317	(366)	100.7	(0.1)
21	17.8	(4.9)	47.6	(15.5)	7.88	(2.93)	311	(44)	336	(376)	100.0	(0.3)
22	18.9	(3.6)	35.7	(7.3)	9.18	(3.58)	315	(38)	332	(375)	99.5	(0.0)
23	18.0	(3.9)	51.4	(10.3)	2.57	(1.28)	304	(73)	276	(362)	100.2	(0.4)
24	14.2	(0.7)	70.1	(4.4)	1.91	(0.95)	13	(114)	80	(91)	100.8	(0.0)
25	15.3	(2.7)	64.5	(8.1)	3.31	(1.27)	310	(86)	185	(243)	100.9	(0.0)
26	16.7	(4.2)	60.7	(12.5)	2.80	(1.53)	325	(98)	320	(379)	101.0	(0.0)
27	15.7	(3.7)	62.4	(9.8)	4.02	(0.88)	317	(71)	237	(282)	101.2	(0.1)
28	16.3	(4.4)	60.1	(11.6)	3.72	(1.22)	318	(61)	320	(362)	101.3	(0.0)
29	17.0	(4.7)	59.2	(14.2)	3.68	(1.44)	318	(92)	337	(374)	101.3	(0.0)
30	18.4	(5.7)	57.9	(15.6)	3.44	(1.20)	322	(66)	331	(379)	101.3	(0.0)
31	17.1	(4.6)	61.9	(12.0)	4.37	(1.01)	318	(59)	335	(373)	101.3	(0.0)
Avg	18.1		54.7		3.71		323		293		100.9	
n	27		27		27		27		27		31	
SD	2.5		7.3		1.67		59		53		0.4	
Min	14.2		35.7		1.51		13		80		99.5	
Max	26.5		70.1		9.18		355		337		101.3	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for June, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	17.9	(5.4)	57.5	(14.1)	4.02	(1.10)	318	(59)	345	(377)	101.2	(0.0)
2	18.1	(6.0)	56.0	(13.6)	4.41	(1.33)	316	(48)	339	(376)	101.0	(0.1)
3	18.8	(4.5)	59.8	(7.0)	4.70	(1.66)	322	(96)	324	(355)	100.7	(0.1)
4	18.2	(4.3)	50.0	(17.8)	5.99	(2.58)	320	(79)	343	(379)	100.7	(0.1)
5	20.3	(5.8)	52.0	(17.4)	3.88	(1.38)	320	(102)	344	(378)	100.8	(0.0)
6	18.8	(4.8)	52.1	(17.0)	5.22	(2.33)	320	(95)	329	(377)	100.8	(0.0)
7	19.3	(6.2)	48.2	(18.5)	5.23	(2.21)	311	(33)	343	(383)	100.8	(0.0)
8	22.6	(6.6)	43.5	(15.5)	2.67	(1.10)	316	(107)	343	(386)	100.7	(0.0)
9	25.2	(6.6)	42.5	(11.8)	2.68	(1.34)	327	(123)	342	(385)	100.7	(0.0)
10	23.1	(4.2)	37.8	(18.2)	6.27	(3.12)	314	(64)	350	(390)	100.7	(0.0)
11	22.2	(5.3)	33.6	(8.9)	5.52	(2.58)	303	(44)	344	(383)	100.7	(0.0)
12	23.8	(6.4)	38.8	(10.7)	2.22	(1.06)	314	(98)	321	(376)	100.7	(0.0)
13	26.2	(6.8)	38.1	(11.2)	2.58	(1.22)	335	(129)	318	(374)	100.8	(0.0)
14	24.0	(5.6)	46.3	(9.3)	3.54	(0.90)	333	(111)	300	(365)	100.8	(0.0)
15	23.3	(6.5)	48.5	(14.0)	3.21	(1.04)	317	(65)	319	(381)	100.8	(0.0)
16	22.5	(6.4)	47.4	(12.8)	3.73	(0.85)	324	(59)	336	(391)	101.0	(0.1)
17	22.7	(6.7)	50.2	(15.4)	4.09	(1.15)	321	(61)	329	(386)	101.2	(0.0)
18	25.0	(5.8)	34.4	(10.6)	4.19	(1.95)	330	(112)	343	(390)	101.1	(0.1)
19	25.9	(6.5)	36.6	(10.6)	2.87	(1.14)	331	(130)	333	(380)	100.9	(0.0)
20	29.6	(7.3)	32.7	(11.8)	1.81	(0.84)	344	(141)	323	(372)	100.9	(0.0)
21	30.0	(5.9)	33.2	(8.8)	2.08	(1.42)	343	(138)	217	(329)	101.0	(0.1)
22	25.8	(5.1)	33.3	(6.8)	3.56	(1.13)	336	(130)	313	(376)	101.0	(0.1)
23	22.3	(5.4)	44.7	(8.2)	3.70	(1.14)	323	(96)	307	(368)	100.8	(0.0)
24	22.8	(5.9)	50.0	(11.5)	3.17	(0.82)	329	(102)	259	(321)	100.8	(0.0)
25	21.5	(5.3)	55.8	(10.2)	3.77	(0.86)	320	(44)	301	(359)	100.7	(0.0)
26	22.6	(5.8)	59.3	(11.4)	2.78	(1.08)	322	(102)	267	(332)	100.6	(0.0)
27	25.5	(5.1)	53.7	(11.6)	2.93	(1.45)	322	(109)	254	(322)	100.7	(0.1)
28	22.9	(5.0)	54.8	(12.4)	4.34	(0.95)	322	(30)	285	(342)	101.0	(0.0)
29	22.9	(6.3)	53.2	(16.5)	3.43	(0.79)	321	(64)	308	(362)	101.0	(0.0)
30	22.8	(5.2)	57.2	(11.6)	4.15	(0.90)	327	(59)	319	(366)	101.0	(0.0)
Avg	22.9		46.7		3.76		323		317		100.9	
n	30		30		30		30		30		30	
SD	3.0		8.6		1.11		9		31		0.2	
Min	17.9		32.7		1.81		303		217		100.6	
Max	30.0		59.8		6.27		344		350		101.2	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for July, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	21.7	(5.5)	60.2	(14.6)	4.42	(0.88)	323	(51)	307	(354)	100.8	(0.1)
2	23.5	(5.7)	49.1	(12.5)	3.80	(1.55)	334	(119)	323	(379)	100.7	(0.0)
3	24.0	(5.1)	52.4	(8.4)	4.09	(1.64)	328	(111)	315	(368)	100.9	(0.1)
4	21.1	(4.2)	61.2	(12.6)	3.77	(0.92)	325	(68)	273	(329)	100.8	(0.1)
5	23.8	(6.1)	58.3	(15.4)	3.60	(1.48)	326	(95)	326	(374)	100.5	(0.1)
6	26.3	(5.4)	56.0	(11.7)	3.08	(1.37)	329	(125)	313	(365)	100.2	(0.0)
7	29.8	(6.0)	46.9	(12.2)	1.66	(0.90)	322	(122)	293	(352)	100.1	(0.0)
8	31.1	(5.6)	47.0	(10.3)	2.00	(1.00)	323	(114)	286	(352)	100.1	(0.0)
9	30.7	(4.7)	41.2	(5.1)	3.84	(1.29)	331	(116)	273	(339)	100.1	(0.0)
10	29.7	(4.9)	45.5	(8.2)	2.83	(1.31)	340	(134)	269	(326)	100.3	(0.1)
11	24.5	(4.5)	57.6	(9.8)	3.27	(0.89)	317	(56)	244	(305)	100.8	(0.1)
12	23.7	(5.1)	60.1	(12.4)	4.21	(0.88)	324	(50)	286	(341)	100.9	(0.0)
13	25.8	(5.3)	54.8	(9.4)	3.69	(0.70)	325	(63)	277	(337)	100.8	(0.0)
14	25.8	(4.4)	53.7	(8.4)	4.28	(1.11)	325	(56)	277	(338)	100.9	(0.1)
15	22.4	(4.8)	63.6	(10.8)	4.81	(0.91)	324	(34)	291	(347)	101.1	(0.0)
16	22.9	(5.9)	60.2	(13.0)	3.90	(1.12)	328	(79)	300	(353)	101.0	(0.1)
17	24.8	(5.4)	49.6	(12.0)	3.55	(1.23)	331	(117)	315	(371)	100.8	(0.1)
18	23.5	(6.4)	56.1	(13.9)	3.40	(1.27)	323	(92)	314	(369)	100.4	(0.1)
19	25.1	(5.7)	48.4	(11.0)	2.90	(0.99)	322	(89)	301	(362)	100.5	(0.1)
20	20.4	(5.2)	60.8	(11.9)	4.42	(1.01)	320	(43)	267	(335)	100.8	(0.1)
21	19.2	(4.9)	64.2	(12.1)	4.86	(0.97)	326	(53)	292	(361)	100.9	(0.0)
22	22.0	(6.8)	56.7	(16.7)	3.60	(1.33)	320	(78)	314	(369)	100.7	(0.0)
23	26.0	(5.8)	46.4	(12.8)	1.98	(1.15)	333	(124)	293	(349)	100.7	(0.0)
24	24.9	(5.8)	48.2	(11.6)	2.82	(1.11)	320	(85)	306	(368)	100.7	(0.0)
25	25.3	(5.6)	51.2	(11.4)	2.88	(1.43)	323	(99)	282	(348)	100.7	(0.0)
26	26.5	(5.7)	44.3	(11.4)	3.10	(1.52)	335	(135)	293	(352)	100.8	(0.0)
27	24.4	(4.9)	49.5	(12.7)	3.92	(1.47)	327	(89)	306	(364)	100.9	(0.0)
28	22.1	(5.6)	55.1	(13.6)	3.90	(1.14)	325	(75)	306	(364)	101.0	(0.0)
29	22.4	(5.6)	52.7	(13.0)	3.42	(1.46)	324	(95)	289	(354)	100.9	(0.1)
30	23.5	(6.0)	51.0	(11.9)	3.06	(1.05)	324	(89)	303	(359)	100.8	(0.0)
31	24.6	(5.6)	42.1	(12.8)	2.97	(1.50)	317	(97)	298	(352)	100.7	(0.0)
Avg	24.6		53.0		3.48		326		295		100.7	
n	31		31		31		31		31		31	
SD	2.8		6.2		0.76		5		18		0.3	
Min	19.2		41.2		1.66		317		244		100.1	
Max	31.1		64.2		4.86		340		326		101.1	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for August, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	23.8	(6.0)	45.5	(10.9)	3.70	(1.29)	328	(96)	302	(354)	100.6	(0.0)
2	25.3	(5.7)	49.3	(13.9)	3.59	(1.60)	332	(121)	295	(350)	100.6	(0.0)
3	23.5	(5.8)	43.8	(10.3)	3.56	(1.25)	326	(83)	307	(358)	100.7	(0.0)
4	23.6	(6.3)	50.0	(14.5)	3.52	(1.01)	320	(48)	299	(354)	100.8	(0.0)
5	23.8	(5.2)	46.1	(8.8)	3.86	(0.90)	321	(32)	256	(342)	100.8	(0.0)
6	25.2	(5.2)	44.8	(8.1)	3.32	(0.82)	322	(61)	267	(330)	100.8	(0.0)
7	24.8	(5.1)	43.1	(6.9)	3.55	(1.10)	323	(78)	278	(337)	100.7	(0.0)
8	21.8	(5.4)	58.2	(12.4)	4.15	(0.91)	323	(45)	286	(343)	100.9	(0.1)
9	21.6	(5.7)	55.9	(15.3)	3.74	(0.93)	327	(79)	291	(349)	101.0	(0.0)
10	23.7	(6.1)	51.7	(16.4)	2.61	(1.51)	324	(123)	290	(348)	100.8	(0.1)
11	25.5	(6.5)	48.6	(15.2)	1.81	(1.12)	332	(132)	263	(349)	100.5	(0.1)
12	26.3	(5.8)	48.8	(10.5)	2.38	(1.35)	320	(115)	286	(346)	100.4	(0.0)
13	28.0	(6.4)	50.9	(13.2)	1.96	(0.93)	326	(123)	276	(339)	100.4	(0.0)
14	28.2	(5.7)	48.7	(11.2)	2.42	(1.28)	323	(126)	252	(324)	100.5	(0.0)
15	28.9	(5.5)	39.2	(8.6)	2.82	(0.86)	338	(135)	273	(336)	100.4	(0.0)
16	27.7	(4.8)	44.2	(10.4)	3.37	(1.01)	325	(100)	271	(332)	100.5	(0.0)
17	22.6	(5.5)	62.5	(14.5)	3.76	(0.81)	322	(36)	257	(326)	100.7	(0.1)
18	20.4	(4.6)	65.9	(11.1)	4.56	(1.12)	326	(56)	244	(316)	100.9	(0.0)
19	20.3	(4.6)	65.0	(12.6)	4.18	(1.07)	328	(61)	249	(315)	100.8	(0.1)
20	22.3	(5.5)	65.9	(12.4)	3.29	(1.22)	325	(94)	273	(333)	100.6	(0.1)
21	24.0	(4.1)	62.3	(12.8)	3.28	(1.27)	328	(123)	269	(330)	100.5	(0.0)
22	25.0	(6.0)	56.3	(14.5)	2.20	(0.92)	318	(82)	277	(341)	100.6	(0.0)
23	24.0	(5.6)	60.0	(13.2)	3.27	(0.89)	320	(76)	269	(331)	100.6	(0.0)
24	25.4	(6.0)	55.8	(14.6)	2.94	(1.14)	321	(96)	271	(333)	100.5	(0.0)
25	25.5	(5.1)	44.2	(10.9)	3.96	(1.33)	330	(110)	271	(332)	100.4	(0.0)
26	23.6	(5.4)	48.4	(10.0)	2.97	(1.09)	323	(92)	270	(330)	100.4	(0.0)
27	27.0	(6.4)	45.4	(12.2)	2.24	(1.16)	328	(126)	265	(329)	100.4	(0.0)
28	27.9	(6.1)	47.4	(12.8)	1.80	(1.11)	322	(118)	262	(326)	100.2	(0.1)
29	29.9	(6.5)	42.0	(11.7)	1.59	(0.87)	330	(124)	255	(321)	100.0	(0.1)
30	26.5	(5.7)	40.2	(9.3)	2.70	(1.26)	323	(97)	267	(332)	100.1	(0.1)
31	20.4	(4.9)	47.0	(13.6)	3.79	(1.32)	335	(115)	271	(329)	100.5	(0.1)
Avg	24.7		50.9		3.13		325		273		100.6	
n	31		31		31		31		31		31	
SD	2.5		7.7		0.77		5		15		0.2	
Min	20.3		39.2		1.59		318		244		100.0	
Max	29.9		65.9		4.56		338		307		101.0	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for September, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	20.8	(5.2)	42.0	(13.0)	4.16	(2.04)	302	(71)	267	(329)	100.7	(0.0)
2	22.7	(7.0)	44.9	(16.3)	1.68	(0.95)	330	(107)	243	(313)	100.7	(0.0)
3	25.3	(6.6)	42.4	(14.1)	1.56	(0.84)	332	(134)	248	(320)	100.6	(0.0)
4	26.3	(6.3)	39.8	(11.5)	1.49	(0.93)	346	(135)	246	(317)	100.5	(0.0)
5	27.0	(6.1)	40.4	(8.9)	1.79	(0.99)	336	(126)	233	(306)	100.4	(0.0)
6	27.6	(6.3)	41.7	(11.3)	1.78	(0.94)	342	(137)	229	(302)	100.3	(0.1)
7	27.7	(6.7)	38.3	(10.6)	1.84	(0.95)	333	(118)	238	(313)	100.2	(0.0)
8	22.8	(6.4)	54.4	(15.4)	3.23	(0.74)	316	(29)	238	(311)	100.2	(0.0)
9	19.7	(5.0)	65.9	(14.4)	4.00	(1.07)	327	(70)	226	(299)	100.4	(0.1)
10	20.3	(5.7)	63.9	(13.8)	3.04	(1.21)	326	(95)	216	(290)	100.5	(0.0)
11	22.4	(5.7)	59.4	(13.9)	2.24	(1.11)	326	(111)	224	(297)	100.6	(0.0)
12	21.6	(5.7)	58.7	(15.3)	2.66	(1.19)	327	(93)	231	(304)	100.7	(0.0)
13	19.8	(5.9)	61.8	(14.4)	3.46	(1.06)	319	(49)	222	(299)	100.8	(0.1)
14	21.0	(5.8)	61.2	(14.2)	3.17	(0.94)	321	(79)	220	(294)	100.9	(0.0)
15	22.4	(5.8)	58.2	(13.9)	2.77	(1.06)	319	(86)	215	(289)	100.9	(0.0)
16	21.7	(5.3)	57.7	(12.8)	3.32	(0.70)	319	(55)	199	(280)	101.0	(0.1)
17	18.0	(4.4)	64.6	(12.5)	4.80	(0.71)	330	(47)	213	(286)	101.1	(0.0)
18	18.2	(5.3)	62.7	(14.2)	3.46	(1.13)	330	(77)	211	(283)	101.1	(0.0)
19	18.7	(4.2)	63.6	(13.8)	3.69	(1.10)	334	(102)	207	(281)	101.2	(0.0)
20	19.3	(3.6)	66.8	(10.1)	3.31	(1.13)	334	(118)	204	(276)	101.1	(0.1)
21	19.3	(4.5)	63.8	(11.8)	2.70	(0.93)	324	(92)	188	(259)	101.0	(0.0)
22	19.7	(5.6)	56.6	(18.7)	3.36	(1.50)	318	(86)	207	(277)	101.1	(0.0)
23	22.1	(6.2)	46.9	(13.9)	1.53	(0.82)	344	(128)	202	(273)	101.0	(0.0)
24	23.3	(6.2)	44.8	(12.2)	1.81	(0.85)	351	(125)	189	(268)	100.9	(0.0)
25	24.8	(5.4)	38.1	(11.2)	1.98	(1.02)	326	(111)	190	(262)	100.9	(0.0)
26	24.9	(5.9)	48.1	(11.7)	1.94	(0.85)	322	(90)	187	(267)	100.9	(0.0)
27	25.3	(5.6)	46.4	(12.9)	2.69	(1.07)	316	(76)	175	(265)	100.8	(0.0)
28	25.0	(5.8)	46.5	(13.4)	2.04	(1.05)	329	(124)	180	(257)	100.9	(0.0)
29	22.7	(5.1)	57.9	(12.8)	2.92	(0.73)	325	(76)	166	(256)	101.0	(0.1)
30	22.9	(5.9)	58.5	(15.4)	2.41	(0.80)	318	(66)	159	(254)	101.1	(0.0)
Avg	22.4		53.2		2.69		327		212		100.8	
n	30		30		30		30		30		30	
SD	2.8		9.4		0.87		10		25		0.3	
Min	18.0		38.1		1.49		302		159		100.2	
Max	27.7		66.8		4.80		351		267		101.2	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for October, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	24.6	(5.9)	43.5	(9.3)	2.58	(0.72)	320	(87)	149	(249)	101.0	(0.0)
2	21.2	(2.9)	64.2	(8.2)	4.12	(1.28)	330	(79)	148	(221)	100.8	(0.1)
3	19.3	(3.7)	65.7	(13.7)	1.39	(0.88)	345	(133)	94	(174)	100.7	(0.0)
4	17.5	(2.4)	72.7	(5.8)	2.39	(1.33)	141	(93)	92	(166)	101.0	(0.1)
5	17.0	(3.7)	66.1	(13.6)	2.48	(1.12)	342	(144)	193	(273)	101.3	(0.1)
6	18.7	(4.7)	63.7	(12.6)	2.16	(1.17)	334	(123)	198	(279)	101.5	(0.0)
7	20.4	(5.4)	61.3	(15.5)	2.40	(1.58)	331	(128)	196	(278)	101.2	(0.1)
8	20.3	(5.1)	58.5	(15.5)	2.36	(1.47)	333	(131)	193	(275)	100.9	(0.0)
9	16.3	(3.9)	46.5	(21.5)	5.63	(2.85)	323	(76)	193	(276)	100.9	(0.0)
10	12.8	(3.2)	39.7	(9.6)	5.72	(2.19)	310	(30)	188	(270)	100.9	(0.0)
11	11.8	(4.5)	40.0	(11.5)	6.02	(2.54)	312	(47)	187	(268)	101.3	(0.2)
12	11.7	(5.5)	39.4	(12.7)	2.79	(1.24)	309	(90)	186	(268)	101.8	(0.1)
13	13.9	(6.5)	39.9	(13.6)	1.50	(0.88)	134	(69)	182	(260)	101.8	(0.1)
14	16.4	(6.5)	39.6	(14.2)	1.12	(0.77)	110	(88)	180	(261)	101.5	(0.1)
15	17.8	(6.8)	41.1	(11.5)	1.33	(1.17)	348	(117)	175	(257)	101.4	(0.0)
16	18.8	(7.0)	45.3	(13.4)	0.73	(0.59)	28	(115)	174	(251)	101.4	(0.0)
17	19.9	(7.2)	45.6	(13.0)	1.04	(0.65)	86	(100)	156	(237)	101.3	(0.0)
18	19.8	(4.4)	46.8	(10.8)	2.52	(1.28)	334	(123)	118	(202)	101.2	(0.0)
19	17.0	(4.8)	53.5	(12.4)	2.83	(0.95)	325	(73)	167	(246)	101.5	(0.1)
20	15.7	(4.4)	61.4	(14.7)	3.21	(1.54)	332	(116)	170	(249)	101.6	(0.0)
21	16.8	(5.0)	58.0	(17.0)	2.88	(1.71)	315	(85)	170	(247)	101.6	(0.0)
22	17.5	(7.0)	51.2	(15.5)	0.83	(0.59)	77	(94)	166	(242)	101.4	(0.1)
23	18.4	(6.6)	47.3	(13.1)	1.17	(0.80)	2	(116)	170	(240)	101.3	(0.0)
24	18.5	(6.8)	44.8	(11.5)	0.90	(0.65)	65	(102)	172	(235)	101.3	(0.0)
25	18.9	(6.9)	46.7	(12.5)	1.11	(0.73)	49	(106)	171	(234)	101.4	(0.0)
26	18.6	(7.0)	48.0	(14.1)	1.25	(0.67)	26	(109)	172	(238)	101.6	(0.1)
27	17.0	(5.1)	56.8	(9.8)	1.58	(0.92)	327	(125)	136	(210)	101.7	(0.0)
28	18.4	(5.7)	55.4	(15.6)	1.29	(0.78)	330	(130)	163	(230)	101.5	(0.1)
29	17.9	(6.5)	51.8	(11.8)	0.94	(0.77)	107	(59)	144	(213)	101.1	(0.1)
30	17.0	(3.2)	63.2	(12.8)	2.28	(1.87)	143	(80)	58	(112)	101.3	(0.2)
31	19.1	(1.9)	66.5	(8.7)	3.34	(1.74)	132	(18)	79	(157)	101.4	(0.1)
Avg	17.7		52.4		2.32		359		159		101.3	
n	31		31		31		31		31		31	
SD	2.6		9.7		1.41		124		36		0.3	
Min	11.7		39.4		0.73		2		58		100.7	
Max	24.6		72.7		6.02		348		198		101.8	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for November, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	19.5	(1.6)	61.1	(9.5)	3.89	(1.11)	131	(34)	16	(50)	101.3	(0.1)
2	16.5	(2.5)	73.8	(8.7)	2.06	(0.90)	60	(111)	109	(182)	101.2	(0.1)
3	13.9	(2.3)	74.5	(6.3)	2.00	(1.45)	160	(89)	68	(130)	101.3	(0.1)
4	11.9	(2.3)	71.5	(10.4)	2.88	(1.38)	315	(84)	137	(212)	101.8	(0.1)
5	11.0	(3.4)	69.9	(10.2)	3.11	(1.08)	318	(64)	140	(202)	102.2	(0.1)
6	12.2	(3.7)	70.9	(9.4)	1.67	(0.98)	312	(103)	157	(218)	102.1	(0.1)
7											101.5	(0.2)
8											100.9	(0.1)
9											101.1	(0.2)
10											101.7	(0.1)
11	12.9	(3.5)	71.4	(2.5)	2.25	(1.55)	344	(127)	122	(189)	102.0	(0.0)
12	13.8	(3.7)	66.3	(5.6)	1.50	(0.97)	342	(130)	141	(206)	101.9	(0.1)
13	14.8	(4.7)	64.9	(5.9)	1.78	(1.44)	3	(125)	145	(207)	101.7	(0.0)
14	15.3	(4.4)	64.1	(3.8)	1.12	(0.66)	95	(97)	141	(199)	101.7	(0.0)
15	16.4	(5.6)	60.3	(7.2)	0.69	(0.49)	79	(93)	142	(199)	101.6	(0.0)
16	16.8	(6.0)	60.3	(9.8)	0.43	(0.36)	56	(104)	145	(200)	101.7	(0.0)
17	16.2	(5.9)	61.7	(10.2)	0.44	(0.41)	34	(107)	141	(204)	101.7	(0.0)
18	16.1	(6.0)	61.0	(9.4)	0.49	(0.48)	51	(113)	130	(196)	101.6	(0.0)
19	12.9	(4.1)	59.5	(5.2)	2.01	(1.15)	333	(111)	112	(184)	101.7	(0.1)
20	13.6	(3.6)	60.8	(5.6)	3.46	(1.87)	327	(107)	112	(189)	101.8	(0.0)
21	11.5	(3.9)	62.1	(4.8)	1.40	(1.00)	10	(119)	103	(155)	101.6	(0.0)
22					0.96	(0.69)	342	(108)	110	(166)	101.5	(0.0)
23					0.87	(0.56)	99	(92)	115	(173)	101.4	(0.0)
24					1.11	(0.77)	344	(123)	95	(160)	101.3	(0.0)
25					1.44	(0.72)	182	(91)	67	(109)	101.1	(0.1)
26					1.28	(0.73)	321	(110)	33	(39)	101.2	(0.2)
27					2.19	(1.43)	325	(113)	49	(61)	101.8	(0.1)
28					1.64	(1.48)	346	(133)	66	(90)	102.0	(0.0)
29					1.00	(0.74)	114	(86)	108	(146)	101.9	(0.0)
30					0.91	(0.68)	144	(77)	119	(162)	101.8	(0.0)
Avg	14.4		65.5		1.64		16		109		101.6	
n	17		17		26		26		26		30	
SD	2.2		5.2		0.90		128		37		0.3	
Min	11.0		59.5		0.43		3		16		100.9	
Max	19.5		74.5		3.89		346		157		102.2	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for December, 2008.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1					0.99	(0.59)	171	(80)	50	(56)	101.8	(0.0)
2					2.54	(1.68)	325	(100)	61	(98)	101.8	(0.0)
3	12.1	(0.8)	83.5	(5.7)	1.17	(0.60)	126	(57)	26	(40)	101.7	(0.1)
4	10.8	(2.6)	76.9	(6.7)	0.96	(0.69)	130	(76)	45	(93)	101.8	(0.1)
5	6.6	(2.8)	88.8	(3.9)	1.02	(0.84)	109	(79)	51	(97)	102.1	(0.0)
6	6.9	(0.7)	90.1	(3.2)	1.13	(0.76)	147	(76)	11	(48)	101.9	(0.1)
7	6.3	(1.0)	89.7	(2.9)	1.05	(0.81)	4	(117)	33	(83)	101.6	(0.0)
8	5.0	(1.5)	95.0	(1.3)	1.78	(1.53)	282	(95)	4	(31)	101.9	(0.2)
9	7.1	(3.4)	85.8	(10.5)	0.92	(0.76)	140	(73)	90	(163)	102.3	(0.0)
10	6.6	(4.6)	81.6	(11.8)	0.95	(0.69)	90	(97)	78	(149)	102.0	(0.2)
11	6.2	(2.8)	88.5	(4.2)	1.56	(0.76)	128	(61)	49	(113)	101.3	(0.2)
12	7.4	(3.8)	88.9	(6.7)	1.77	(1.08)	46	(107)	65	(135)	100.8	(0.0)
13	8.1	(2.5)	67.0	(14.3)	3.55	(1.73)	291	(85)	76	(155)	100.9	(0.1)
14	5.0	(3.4)	77.0	(10.5)	3.70	(1.81)	122	(18)	41	(94)	100.8	(0.1)
15	6.7	(2.2)	80.4	(8.7)	2.71	(1.48)	142	(73)	64	(147)	100.9	(0.2)
16	5.3	(2.5)	85.6	(6.5)	2.37	(1.22)	102	(94)	41	(96)	101.2	(0.0)
17	3.3	(2.6)	75.8	(12.1)	3.83	(2.13)	314	(76)	106	(183)	101.4	(0.2)
18	5.3	(4.6)	71.1	(13.8)	2.81	(0.91)	124	(15)	91	(174)	102.0	(0.2)
19	7.9	(1.7)	75.1	(7.5)	2.08	(1.06)	106	(96)	36	(88)	102.3	(0.0)
20	3.6	(1.7)	92.5	(1.9)	1.64	(1.11)	337	(129)	36	(84)	102.0	(0.2)
21	6.0	(2.5)	92.2	(2.0)	2.57	(1.58)	130	(29)	11	(49)	101.2	(0.2)
22	8.5	(2.1)	80.8	(12.0)	1.98	(1.30)	64	(106)	87	(170)	100.9	(0.0)
23	8.1	(2.0)	79.7	(9.4)	1.82	(0.56)	121	(17)	63	(120)	100.9	(0.1)
24	10.2	(1.1)	72.4	(5.4)	4.20	(0.92)	127	(9)	13	(48)	100.6	(0.1)
25	8.6	(1.9)	73.9	(10.2)	5.88	(2.97)	255	(78)	67	(149)	101.2	(0.4)
26	5.3	(2.6)	72.6	(9.4)	2.44	(1.84)	334	(125)	111	(190)	102.3	(0.2)
27	6.5	(3.8)	71.9	(11.3)	1.28	(1.04)	109	(59)	105	(182)	102.5	(0.0)
28	8.0	(4.1)	72.9	(12.1)	1.07	(0.68)	110	(67)	117	(187)	102.3	(0.1)
29	9.0	(3.8)	78.4	(8.8)	1.49	(1.11)	39	(107)	107	(176)	102.0	(0.0)
30	6.6	(1.0)	92.9	(2.3)	0.78	(0.72)	212	(90)	46	(89)	102.0	(0.0)
31	5.9	(0.7)	94.9	(0.4)	1.05	(0.68)	111	(94)	16	(44)	101.9	(0.1)
Avg	7.0		81.9		2.04		110		58		101.6	
n	29		29		31		31		31		31	
SD	2.0		8.1		1.18		90		32		0.5	
Min	3.3		67.0		0.78		4		4		100.6	
Max	12.1		95.0		5.88		337		117		102.5	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for January, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	6.8	(0.8)	89.7	(4.9)	1.61	(0.73)	118	(51)	22	(53)	101.5	(0.2)
2	7.5	(0.6)	89.3	(2.1)	2.44	(1.32)	134	(57)	17	(47)	101.3	(0.1)
3	5.5	(1.9)	87.8	(6.5)	3.21	(1.99)	330	(118)	63	(132)	101.6	(0.1)
4	4.1	(3.9)	78.1	(13.7)	1.34	(0.92)	61	(99)	124	(196)	101.9	(0.1)
5	7.0	(1.2)	86.4	(2.4)	2.26	(0.90)	128	(89)	26	(55)	102.1	(0.1)
6	7.0	(1.5)	87.8	(4.6)	2.06	(1.20)	320	(111)	40	(96)	102.2	(0.0)
7	5.2	(2.7)	89.9	(3.3)	1.09	(0.67)	116	(87)	24	(56)	102.0	(0.1)
8	6.0	(1.8)	91.5	(1.9)	3.80	(2.06)	334	(106)	24	(58)	102.1	(0.1)
9	8.6	(2.7)	78.0	(11.1)	1.62	(0.86)	113	(87)	132	(199)	102.6	(0.2)
10	7.6	(4.7)	79.5	(11.3)	1.20	(0.65)	65	(98)	135	(195)	102.9	(0.0)
11	7.9	(4.7)	80.7	(10.2)	1.25	(0.67)	99	(71)	127	(187)	102.6	(0.1)
12	9.7	(4.7)	76.4	(13.4)	1.37	(0.73)	107	(49)	131	(183)	102.4	(0.0)
13	10.8	(5.6)	73.1	(15.0)	1.05	(0.59)	86	(86)	143	(198)	102.2	(0.1)
14	10.7	(5.3)	76.1	(13.2)	1.04	(0.58)	70	(89)	139	(191)	101.9	(0.0)
15	11.0	(5.6)	74.7	(13.7)	1.04	(0.67)	73	(97)	136	(198)	102.0	(0.1)
16	11.7	(5.6)	72.3	(14.9)	0.92	(0.54)	75	(99)	136	(198)	102.1	(0.0)
17	11.3	(5.3)	70.3	(14.1)	1.14	(0.74)	55	(104)	141	(198)	102.1	(0.0)
18	11.0	(5.1)	69.0	(14.3)	1.51	(0.75)	343	(118)	147	(202)	102.1	(0.0)
19	11.3	(6.0)	70.1	(15.8)	1.00	(0.51)	74	(98)	147	(203)	101.9	(0.1)
20	10.9	(5.5)	69.2	(14.4)	1.23	(0.62)	355	(111)	138	(202)	101.5	(0.1)
21	10.7	(2.4)	82.3	(6.5)	1.69	(1.00)	349	(108)	27	(61)	101.3	(0.0)
22	12.0	(1.6)	90.9	(3.1)	1.85	(1.36)	333	(111)	31	(62)	101.4	(0.0)
23	12.6	(0.9)	93.6	(1.2)	1.24	(0.68)	328	(106)	22	(41)	101.5	(0.1)
24	13.3	(1.5)	86.9	(6.6)	2.30	(1.17)	335	(108)	65	(120)	101.5	(0.1)
25	9.7	(1.6)	76.8	(7.7)	2.05	(1.17)	312	(109)	84	(174)	101.5	(0.1)
26	7.3	(2.5)	81.4	(10.2)	2.63	(1.34)	322	(96)	124	(215)	102.2	(0.3)
27	6.3	(4.2)	72.0	(12.4)	1.95	(1.16)	318	(103)	142	(227)	102.7	(0.1)
28	7.2	(3.9)	76.0	(13.8)	2.51	(1.41)	344	(114)	137	(224)	102.5	(0.1)
29	8.9	(4.8)	76.0	(13.3)	1.61	(0.73)	113	(40)	136	(219)	102.3	(0.1)
30	10.0	(5.3)	77.3	(12.8)	0.77	(0.59)	42	(103)	134	(218)	102.0	(0.1)
31	8.4	(4.8)	82.4	(11.1)	1.27	(0.79)	34	(124)			101.8	(0.1)
Avg	9.0		80.2		1.68		39		96		102.0	
n	31		31		31		31		30		31	
SD	2.4		7.3		0.70		124		51		0.4	
Min	4.1		69.0		0.77		34		17		101.3	
Max	13.3		93.6		3.80		355		147		102.9	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for February, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	10.1	(4.8)	78.6	(11.4)	0.86	(0.58)	50	(104)	145	(222)	102.0	(0.0)
2	11.2	(5.5)	78.1	(12.7)	0.90	(0.55)	68	(91)	151	(221)	101.8	(0.2)
3	11.5	(6.1)	77.0	(14.4)	0.89	(0.61)	76	(94)	160	(226)	101.3	(0.1)
4	11.5	(5.0)	78.3	(12.6)	1.00	(0.75)	45	(104)	112	(187)	101.1	(0.0)
5	12.1	(1.6)	78.0	(7.0)	2.55	(1.41)	125	(76)	77	(155)	100.9	(0.1)
6	11.8	(1.9)	82.5	(6.7)	1.74	(1.08)	116	(69)	78	(125)	100.7	(0.0)
7	11.3	(2.8)	82.8	(8.8)	2.00	(1.62)	320	(119)	169	(236)	100.7	(0.0)
8	10.4	(3.0)	79.6	(9.5)	3.64	(2.05)	155	(47)	123	(193)	100.9	(0.1)
9	7.4	(2.2)	72.7	(8.4)	2.62	(1.84)	298	(92)	128	(230)	101.4	(0.2)
10	7.5	(4.4)	66.7	(15.4)	1.80	(0.83)	74	(106)	163	(245)	101.8	(0.0)
11	9.1	(2.1)	75.6	(9.7)	3.12	(1.39)	135	(57)	140	(233)	101.7	(0.0)
12	8.8	(2.2)	78.0	(9.3)	1.43	(0.77)	140	(69)	99	(163)	101.5	(0.2)
13	8.4	(1.5)	78.6	(7.4)	3.34	(1.11)	131	(35)	130	(237)	101.3	(0.0)
14	9.7	(2.3)	72.5	(11.8)	4.16	(1.05)	137	(8)	158	(250)	100.9	(0.2)
15	10.6	(1.2)	66.7	(5.8)	6.39	(2.15)	122	(11)	35	(59)	100.3	(0.1)
16	10.6	(1.1)	74.4	(9.7)	5.14	(1.94)	133	(17)	72	(114)	100.7	(0.3)
17	9.4	(0.9)	80.4	(4.5)	5.70	(1.81)	133	(6)	61	(144)	101.6	(0.2)
18	11.0	(3.4)	74.5	(11.0)	1.11	(0.78)	113	(62)	179	(250)	102.0	(0.0)
19	11.0	(5.5)	71.3	(16.9)	1.05	(0.81)	47	(113)	201	(270)	101.8	(0.1)
20	10.2	(4.3)	75.7	(12.0)	1.74	(1.17)	335	(126)	167	(244)	101.6	(0.1)
21	11.1	(3.9)	78.8	(8.0)	2.20	(1.00)	123	(36)	114	(166)	101.4	(0.0)
22	14.1	(1.3)	80.4	(3.4)	4.95	(1.36)	135	(12)	25	(45)	101.5	(0.0)
23	15.0	(1.6)	84.1	(3.6)	3.04	(1.49)	130	(30)	65	(106)	101.6	(0.0)
24	13.0	(2.9)	76.8	(10.1)	2.57	(1.19)	344	(122)	200	(284)	101.7	(0.0)
25	13.3	(3.0)	72.6	(12.1)	1.58	(0.83)	25	(132)	183	(286)	101.8	(0.0)
26	13.4	(3.3)	77.1	(10.3)	2.52	(0.92)	37	(105)	188	(262)	101.8	(0.0)
27	10.5	(3.6)	74.8	(12.1)	2.48	(1.43)	350	(139)	222	(288)	101.6	(0.1)
28	12.4	(4.1)	78.8	(8.0)	1.38	(0.80)	110	(50)	119	(166)	101.4	(0.0)
Avg	10.9		76.6		2.57		92		131		101.4	
n	28		28		28		28		28		28	
SD	1.8		4.2		1.50		94		51		0.4	
Min	7.4		66.7		0.86		25		25		100.3	
Max	15.0		84.1		6.39		350		222		102.0	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for March, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	13.8	(1.2)	83.7	(5.9)	3.16	(2.04)	90	(95)	10	(15)	101.2	(0.1)
2	15.3	(1.5)	78.3	(6.1)	4.18	(2.32)	153	(37)	103	(174)	101.1	(0.0)
3	12.7	(1.3)	78.4	(6.6)	3.67	(1.41)	155	(29)	80	(140)	101.2	(0.1)
4	10.4	(2.4)	75.5	(13.6)	1.91	(1.33)	127	(87)	186	(280)	101.5	(0.1)
5	9.4	(4.1)	73.7	(13.2)	1.60	(0.86)	358	(124)	229	(298)	101.7	(0.0)
6	9.9	(2.7)	74.1	(11.9)	2.12	(1.02)	346	(132)	180	(268)	101.6	(0.0)
7	9.7	(4.4)	73.0	(15.9)	1.46	(0.91)	4	(136)	241	(302)	101.4	(0.1)
8	11.1	(5.3)	67.5	(16.4)	1.47	(0.77)	69	(110)	244	(305)	101.3	(0.1)
9	7.6	(2.7)	60.3	(14.5)	3.90	(1.91)	317	(78)	255	(312)	101.6	(0.0)
10	7.8	(4.2)	63.5	(16.9)	1.94	(1.34)	339	(129)	254	(314)	101.5	(0.1)
11	9.5	(5.2)	63.9	(16.1)	1.60	(0.76)	336	(126)	226	(287)	101.4	(0.0)
12	11.8	(4.5)	66.3	(13.0)	2.73	(1.18)	332	(94)	248	(307)	101.5	(0.0)
13	12.2	(5.2)	70.3	(13.7)	1.74	(0.98)	355	(133)	255	(313)	101.4	(0.1)
14	10.3	(2.7)	74.5	(11.1)	4.07	(1.34)	329	(95)	229	(301)	101.4	(0.1)
15	14.3	(4.2)	71.4	(13.1)	1.87	(1.15)	359	(119)	241	(308)	101.8	(0.1)
16	15.2	(3.8)	75.1	(12.7)	2.37	(1.38)	336	(109)	237	(307)	102.1	(0.0)
17	14.3	(3.3)	76.1	(12.7)	3.46	(1.61)	323	(38)	233	(288)	101.9	(0.1)
18	14.8	(4.4)	73.2	(15.3)	2.82	(1.63)	332	(118)	246	(307)	101.4	(0.2)
19	16.9	(5.1)	68.5	(14.8)	1.88	(1.07)	354	(134)	256	(321)	101.0	(0.1)
20	16.2	(4.5)	72.1	(12.3)	2.45	(1.15)	343	(147)	259	(315)	100.9	(0.0)
21	13.6	(2.5)	76.6	(9.3)	2.94	(1.29)	350	(128)	209	(289)	101.3	(0.2)
22	9.6	(2.0)	70.6	(12.7)	4.18	(2.43)	287	(88)	202	(288)	101.9	(0.1)
23	8.6	(4.4)	60.4	(17.6)	4.42	(2.68)	321	(84)	275	(328)	102.0	(0.1)
24	11.3	(5.3)	67.1	(14.5)	2.17	(1.80)	29	(123)	271	(327)	101.7	(0.1)
25	13.8	(5.3)	67.7	(16.6)	2.56	(1.77)	353	(120)	255	(307)	101.3	(0.1)
26	16.2	(5.2)	63.3	(20.0)	6.09	(2.57)	323	(47)	274	(324)	101.1	(0.0)
27	16.9	(5.5)	60.4	(16.1)	1.60	(0.86)	327	(126)	270	(325)	101.1	(0.1)
28	18.5	(5.8)	62.1	(18.7)	1.71	(0.87)	60	(107)	273	(326)	100.9	(0.0)
29	13.2	(3.3)	49.9	(22.8)	6.26	(3.01)	327	(74)	284	(334)	101.1	(0.2)
30	11.6	(4.7)	48.0	(13.6)	2.59	(1.91)	332	(124)	276	(325)	101.3	(0.0)
31	14.3	(5.6)	57.2	(16.9)	2.31	(1.76)	1	(124)	263	(324)	101.1	(0.1)
Avg	12.6		68.5		2.81		350		228		101.4	
n	31		31		31		31		31		31	
SD	2.9		8.1		1.25		122		60		0.3	
Min	7.6		48.0		1.46		1		10		100.9	
Max	18.5		83.7		6.26		359		284		102.1	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for April, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	16.0	(5.3)	59.2	(18.0)	5.32	(3.02)	324	(97)	272	(327)	100.9	(0.0)
2	13.6	(4.1)	64.7	(13.2)	3.48	(2.14)	326	(124)	283	(336)	100.9	(0.0)
3	11.6	(4.3)	53.7	(23.2)	5.94	(3.51)	317	(80)	292	(343)	101.1	(0.1)
4	11.6	(6.1)	47.8	(20.0)	2.02	(1.16)	339	(123)	301	(349)	101.4	(0.0)
5	15.3	(7.7)	44.9	(23.4)	1.75	(1.10)	101	(43)	301	(349)	101.3	(0.1)
6	17.9	(7.7)	42.0	(18.9)	1.23	(0.88)	27	(115)	295	(348)	101.1	(0.0)
7	13.0	(2.6)	70.6	(15.7)	2.62	(1.36)	36	(123)	128	(229)	101.2	(0.1)
8	13.4	(2.7)	72.6	(13.3)	1.66	(0.91)	93	(97)	195	(292)	101.3	(0.1)
9	12.3	(1.8)	82.1	(6.8)	1.32	(0.88)	32	(106)	90	(126)	100.9	(0.1)
10	11.8	(2.2)	82.0	(9.6)	3.70	(1.60)	329	(88)			101.1	(0.2)
11	12.6	(4.1)	71.6	(14.8)	3.48	(1.61)	336	(133)	289	(354)	101.7	(0.1)
12	15.2	(5.0)	71.0	(14.5)	2.52	(1.07)	341	(142)	297	(353)	101.6	(0.2)
13	14.9	(4.1)	71.4	(11.5)	3.28	(1.22)	329	(111)	228	(265)	101.0	(0.1)
14	10.3	(2.4)	54.2	(17.0)	7.06	(2.51)	301	(25)	276	(350)	101.1	(0.2)
15	10.4	(4.3)	53.0	(16.9)	5.35	(2.39)	311	(79)	313	(362)	101.6	(0.1)
16	12.6	(5.3)	62.7	(18.0)	3.82	(2.06)	330	(124)	313	(358)	101.8	(0.0)
17	15.9	(5.9)	57.7	(16.9)	2.31	(1.46)	345	(142)	316	(359)	101.6	(0.1)
18	19.4	(6.2)	60.1	(16.6)	1.32	(0.83)	7	(137)	315	(364)	101.5	(0.0)
19	22.8	(7.0)	55.0	(19.8)	1.44	(0.63)	39	(120)	317	(371)	101.4	(0.1)
20	24.6	(6.2)	50.9	(14.8)	1.38	(0.72)	359	(150)	301	(353)	101.1	(0.1)
21	25.8	(5.8)	48.7	(14.6)	1.72	(0.78)	14	(136)	285	(349)	100.7	(0.1)
22	24.8	(6.0)	42.1	(13.9)	2.62	(1.59)	352	(130)	319	(369)	100.7	(0.1)
23	17.3	(4.3)	54.9	(18.0)	3.84	(1.22)	318	(84)	290	(350)	101.0	(0.1)
24	13.6	(3.4)	44.4	(16.6)	3.99	(1.82)	326	(106)	256	(329)	101.3	(0.1)
25	12.9	(5.3)	61.5	(16.7)	3.76	(1.85)	329	(128)	328	(368)	101.4	(0.1)
26	13.8	(5.2)	59.5	(18.1)	2.50	(1.06)	337	(144)	328	(369)	101.2	(0.1)
27	13.1	(4.5)	60.9	(15.9)	3.07	(1.91)	347	(138)	327	(366)	101.3	(0.1)
28	11.3	(3.9)	60.0	(14.2)	3.13	(1.66)	319	(108)	298	(341)	101.6	(0.0)
29	12.7	(4.7)	59.7	(17.2)	3.49	(1.32)	328	(127)	332	(372)	101.6	(0.0)
30	15.5	(5.5)	54.5	(18.1)	2.66	(0.92)	330	(114)	294	(353)	101.4	(0.1)
Avg	15.2		59.1		3.06		346		282		101.3	
n	30		30		30		30		29		30	
SD	4.2		10.5		1.43		129		56		0.3	
Min	10.3		42.0		1.23		7		90		100.7	
Max	25.8		82.1		7.06		359		332		101.8	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for May, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	16.7	(2.2)	72.5	(15.1)	2.70	(1.27)	124	(100)	104	(148)	101.4	(0.1)
2	17.5	(1.7)	75.9	(10.8)	1.43	(0.72)	99	(83)	128	(149)	101.6	(0.0)
3	17.9	(2.5)	80.2	(7.2)	2.42	(1.28)	269	(95)	166	(211)	101.5	(0.1)
4	19.6	(4.5)	64.4	(17.0)	1.82	(0.92)	21	(116)	254	(317)	101.4	(0.0)
5	21.1	(3.2)	70.1	(12.5)	2.68	(1.91)	348	(125)	264	(332)	101.5	(0.0)
6	20.0	(4.5)	72.1	(14.4)	4.13	(1.56)	332	(87)	314	(367)	101.5	(0.0)
7	18.5	(4.4)	65.9	(22.0)	5.43	(2.23)	323	(63)	332	(384)	101.2	(0.1)
8	19.2	(5.4)	55.7	(20.2)	4.70	(1.94)	322	(78)	339	(387)	101.0	(0.0)
9	20.8	(5.5)	51.9	(17.6)	3.62	(1.65)	336	(125)	334	(382)	100.9	(0.0)
10	21.6	(5.9)	50.4	(17.3)	3.99	(1.50)	323	(88)	348	(382)	100.9	(0.0)
11	20.2	(5.3)	48.9	(13.6)	4.35	(2.21)	333	(129)	341	(366)	101.0	(0.0)
12	17.8	(5.1)	50.4	(15.6)	4.77	(1.87)	325	(67)	350	(376)	101.2	(0.0)
13	19.5	(5.5)	47.7	(17.6)	5.16	(1.90)	319	(54)	333	(366)	101.2	(0.0)
14	20.0	(4.7)	56.7	(13.0)	4.96	(2.19)	327	(108)	341	(370)	101.0	(0.1)
15	22.6	(5.5)	60.1	(17.3)	3.27	(1.61)	326	(102)	345	(372)	100.8	(0.0)
16	27.0	(6.0)	49.7	(12.2)	1.78	(0.86)	332	(125)	346	(375)	100.7	(0.0)
17	29.5	(5.9)	44.8	(12.6)	1.98	(1.29)	329	(122)	347	(375)	100.7	(0.0)
18	27.2	(4.7)	43.7	(8.8)	3.33	(1.59)	337	(124)	302	(352)	100.7	(0.0)
19	22.0	(4.7)	50.0	(13.1)	4.29	(1.02)	327	(73)	333	(368)	100.8	(0.0)
20	20.6	(5.1)	39.1	(10.3)	3.61	(1.00)	330	(85)	362	(384)	100.8	(0.0)
21	21.8	(6.1)	43.8	(14.1)	3.39	(0.99)	318	(73)	359	(382)	100.7	(0.0)
22	21.6	(5.7)	52.5	(12.9)	3.66	(0.96)	320	(68)	353	(374)	100.7	(0.0)
23	18.4	(5.5)	61.9	(16.2)	4.20	(0.93)	315	(37)	359	(380)	100.9	(0.0)
24	16.9	(5.1)	64.6	(14.6)	4.78	(0.81)	315	(29)	363	(383)	100.9	(0.0)
25	19.1	(6.6)	61.9	(17.9)	3.60	(0.94)	318	(73)	360	(380)	100.7	(0.0)
26	23.7	(6.0)	52.4	(13.6)	2.53	(1.18)	315	(91)	347	(369)	100.6	(0.0)
27	27.0	(5.1)	46.7	(10.9)	2.44	(1.07)	324	(116)	328	(366)	100.6	(0.0)
28	25.9	(5.1)	45.4	(10.1)	3.95	(1.39)	333	(118)	330	(373)	100.8	(0.1)
29	22.0	(4.9)	55.6	(11.2)	4.63	(1.08)	329	(82)	294	(341)	100.9	(0.0)
30	19.8	(5.0)	65.1	(12.4)	4.72	(1.00)	335	(83)	324	(373)	100.9	(0.0)
31	20.0	(5.3)	61.6	(14.5)	4.61	(1.05)	328	(53)	329	(366)	100.8	(0.0)
Avg	21.2		56.8		3.64		329		314		101.0	
n	31		31		31		31		31		31	
SD	3.2		10.4		1.08		74		65		0.3	
Min	16.7		39.1		1.43		21		104		100.6	
Max	29.5		80.2		5.43		348		363		101.6	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for June, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	19.3	(4.4)	65.1	(11.7)	4.38	(1.01)	323	(52)	291	(314)	100.8	(0.0)
2											100.7	(0.0)
3											100.8	(0.1)
4											100.9	(0.0)
5	17.4	(3.1)	69.1	(11.2)	2.59	(1.14)	357	(117)	174	(249)	101.0	(0.0)
6	18.4	(4.2)	63.4	(14.4)	3.61	(1.12)	318	(50)	281	(304)	100.9	(0.0)
7	19.5	(5.0)	60.7	(15.4)	3.45	(1.21)	321	(89)	293	(305)	100.7	(0.1)
8	19.4	(4.9)	59.0	(16.4)	4.64	(1.08)	315	(30)	297	(308)	100.7	(0.0)
9	18.1	(4.2)	63.0	(14.4)	4.77	(1.17)	321	(67)	290	(309)	100.9	(0.0)
10	18.6	(3.4)	65.5	(11.4)	4.01	(1.21)	321	(75)	276	(306)	100.9	(0.0)
11	18.6	(4.2)	65.0	(12.5)	3.97	(1.42)	322	(101)	285	(299)	100.9	(0.0)
12	18.6	(4.2)	61.3	(14.3)	4.46	(1.13)	318	(51)	263	(277)	100.9	(0.0)
13	19.4	(3.6)	68.1	(12.2)	3.76	(1.34)	333	(99)	230	(294)	101.0	(0.0)
14	19.0	(4.6)	61.3	(15.7)	3.63	(1.17)	321	(66)	284	(306)	100.9	(0.0)
15	18.9	(3.7)	62.9	(12.9)	3.71	(0.99)	318	(69)	239	(268)	100.8	(0.0)
16	21.2	(5.3)	60.4	(16.6)	3.29	(1.20)	324	(91)	260	(294)	100.7	(0.0)
17	21.1	(4.8)	61.0	(12.7)	3.96	(1.03)	322	(85)	291	(309)	100.6	(0.1)
18	24.7	(6.3)	56.0	(15.0)	3.20	(1.53)	321	(98)	291	(309)	100.3	(0.1)
19	24.6	(5.1)	46.3	(11.7)	3.49	(1.75)	330	(128)	279	(299)	100.2	(0.0)
20	20.3	(5.4)	53.7	(12.8)	2.84	(1.89)	330	(119)	280	(298)	100.4	(0.1)
21	19.0	(4.8)	57.9	(11.9)	3.28	(1.38)	330	(123)	302	(313)	100.5	(0.1)
22	22.3	(5.6)	47.2	(16.9)	3.25	(1.65)	320	(110)	308	(319)	100.3	(0.1)
23	26.3	(6.4)	41.8	(14.5)	1.89	(1.01)	327	(126)	307	(320)	100.3	(0.1)
24	26.2	(5.6)	43.0	(11.4)	3.31	(1.73)	325	(118)	308	(320)	100.6	(0.1)
25	23.0	(4.9)	49.1	(11.9)	3.57	(0.94)	334	(126)	284	(328)	100.7	(0.0)
26	23.2	(6.0)	48.0	(14.4)	3.13	(1.15)	323	(92)	277	(313)	100.7	(0.0)
27	28.2	(6.5)	46.9	(15.2)	2.38	(1.13)	321	(123)	289	(323)	100.6	(0.1)
28	30.8	(5.8)	40.5	(9.2)	2.65	(1.28)	337	(135)	285	(321)	100.4	(0.1)
29	30.5	(5.7)	33.8	(10.3)	3.57	(1.61)	336	(139)	302	(324)	100.3	(0.0)
30	25.8	(6.2)	45.8	(14.9)	3.42	(1.03)	326	(98)	278	(315)	100.4	(0.0)
Avg	21.9		55.4		3.49		326		279		100.7	
n	27		27		27		27		27		30	
SD	3.8		9.5		0.66		9		28		0.2	
Min	17.4		33.8		1.89		315		174		100.2	
Max	30.8		69.1		4.77		357		308		101.0	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for July, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	24.8	(5.8)	52.0	(15.2)	4.26	(1.02)	323	(47)	299	(324)	100.5	(0.0)
2	25.2	(6.1)	48.9	(13.5)	3.61	(0.84)	326	(86)	295	(324)	100.7	(0.1)
3	25.0	(6.4)	47.5	(15.2)	3.79	(0.81)	325	(69)	305	(327)	100.9	(0.0)
4	23.6	(5.3)	51.3	(10.3)	3.88	(0.72)	328	(57)	301	(320)	101.0	(0.0)
5	21.3	(5.5)	60.3	(14.7)	4.61	(1.12)	327	(40)	301	(321)	101.0	(0.0)
6	20.5	(6.2)	52.7	(20.1)	4.63	(0.91)	325	(57)	305	(330)	100.9	(0.1)
7	22.0	(5.8)	46.1	(16.5)	3.41	(0.95)	324	(93)	308	(331)	100.8	(0.0)
8	22.5	(5.2)	49.1	(12.7)	3.50	(1.13)	324	(99)	299	(322)	100.9	(0.0)
9	22.5	(5.2)	49.1	(12.5)	3.51	(1.13)	322	(102)	302	(329)	101.0	(0.0)
10	23.0	(5.6)	46.0	(15.0)	3.32	(1.45)	333	(124)	302	(323)	101.0	(0.0)
11	24.4	(3.7)	42.4	(7.2)	3.39	(1.40)	324	(98)	226	(272)	101.1	(0.0)
12	24.6	(4.3)	37.9	(10.3)	3.65	(1.24)	324	(80)	298	(321)	101.1	(0.1)
13	24.6	(6.1)	42.1	(13.8)	4.19	(1.51)	311	(50)	300	(319)	100.8	(0.1)
14	28.3	(5.8)	40.2	(10.7)	2.11	(1.08)	319	(116)	300	(316)	100.7	(0.1)
15	29.4	(5.7)	39.2	(10.4)	2.19	(1.17)	321	(113)	307	(314)	100.9	(0.1)
16	28.5	(5.7)	40.3	(10.3)	3.15	(1.37)	323	(80)	313	(321)	101.0	(0.0)
17	29.0	(5.4)	38.6	(8.5)	3.06	(1.60)	327	(116)	306	(317)	100.9	(0.1)
18	30.2	(5.3)	36.5	(9.6)	2.59	(1.49)	322	(109)	298	(312)	100.7	(0.0)
19	30.2	(5.6)	42.3	(10.7)	2.59	(1.06)	324	(104)	298	(321)	100.7	(0.0)
20	27.6	(5.2)	42.2	(10.4)	3.51	(1.67)	327	(100)	307	(319)	100.8	(0.0)
21	25.2	(5.6)	46.3	(11.3)	3.73	(1.42)	329	(96)	268	(302)	100.8	(0.0)
22	24.5	(5.3)	51.1	(10.3)	3.74	(1.10)	327	(84)	307	(319)	100.7	(0.0)
23	24.1	(5.8)	54.2	(13.1)	3.62	(0.83)	322	(60)	296	(312)	100.7	(0.0)
24											100.8	(0.0)
25											100.9	(0.0)
26											100.8	(0.1)
27											100.6	(0.1)
28	25.4	(5.0)	56.7	(10.0)	3.60	(1.06)	323	(78)	284	(309)	100.5	(0.0)
29	22.9	(5.3)	65.9	(12.4)	4.36	(0.89)	326	(48)	281	(298)	100.6	(0.1)
30	22.4	(5.3)	67.9	(13.2)	4.40	(0.95)	329	(70)	284	(301)	100.8	(0.0)
31	23.2	(5.3)	61.3	(14.0)	3.94	(1.10)	328	(65)	284	(302)	100.8	(0.0)
Avg	25.0		48.5		3.57		324		295		100.8	
n	27		27		27		27		27		31	
SD	2.7		8.3		0.65		4		17		0.2	
Min	20.5		36.5		2.11		311		226		100.5	
Max	30.2		67.9		4.63		333		313		101.1	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for August, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	23.8	(5.3)	52.7	(12.2)	3.82	(1.17)	330	(95)	283	(300)	100.9	(0.0)
2	22.0	(5.0)	58.2	(12.4)	4.25	(0.72)	331	(94)	287	(303)	101.0	(0.0)
3	21.3	(5.0)	63.6	(14.4)	4.34	(0.78)	326	(52)	282	(305)	101.1	(0.0)
4	22.0	(5.5)	61.3	(16.3)	4.03	(0.82)	327	(56)			101.1	(0.0)
5	22.0	(4.7)	58.8	(13.4)	4.59	(1.52)	323	(67)	279	(310)	101.1	(0.1)
6	19.7	(3.7)	65.3	(13.1)	2.85	(1.71)	320	(108)	223	(266)	101.2	(0.0)
7	20.6	(4.6)	62.5	(14.4)	3.58	(0.91)	322	(83)	268	(295)	101.1	(0.0)
8	23.4	(5.5)	57.6	(13.5)	3.11	(1.43)	326	(98)	272	(299)	101.0	(0.1)
9	26.4	(5.6)	46.2	(14.2)	2.06	(1.11)	326	(128)	273	(302)	100.9	(0.0)
10	27.6	(5.6)	46.2	(11.9)	2.52	(1.41)	328	(131)	266	(291)	100.9	(0.0)
11	26.2	(4.7)	49.4	(8.5)	3.04	(1.57)	326	(111)	269	(294)	101.0	(0.0)
12	25.6	(5.6)	50.7	(12.2)	3.74	(1.56)	328	(118)	278	(303)	100.9	(0.0)
13	25.9	(4.9)	49.3	(11.4)	3.44	(1.73)	332	(139)	277	(300)	100.9	(0.0)
14	22.3	(4.5)	45.9	(12.2)	3.02	(1.15)	336	(135)	278	(304)	100.9	(0.0)
15	22.6	(6.2)	52.9	(14.9)	3.28	(1.34)	320	(99)	275	(300)	100.8	(0.0)
16	24.5	(5.5)	44.5	(12.6)	2.15	(1.16)	331	(133)	262	(310)	100.7	(0.0)
17	25.2	(5.8)	47.9	(12.8)	2.30	(1.19)	328	(129)	265	(294)	100.5	(0.0)
18	24.6	(5.7)	54.8	(11.8)	3.05	(1.17)	320	(107)	265	(295)	100.5	(0.0)
19	24.7	(4.8)	53.2	(8.1)	3.54	(1.17)	333	(123)	263	(290)	100.6	(0.1)
20	22.0	(5.3)	63.9	(13.7)	4.03	(0.85)	328	(58)	259	(288)	100.7	(0.0)
21	25.3	(6.5)	58.8	(13.4)	2.88	(0.91)	314	(83)	261	(289)	100.6	(0.0)
22	28.5	(4.8)	47.8	(10.6)	1.36	(0.85)	279	(103)	199	(252)	100.6	(0.1)
23	23.8	(4.7)	56.7	(12.0)	2.90	(1.38)	317	(62)	239	(284)	100.8	(0.0)
24	21.4	(5.8)	52.7	(15.0)	3.28	(0.63)	325	(49)	263	(292)	100.9	(0.0)
25	22.9	(6.2)	52.4	(14.3)	2.78	(0.86)	319	(60)	263	(294)	101.0	(0.0)
26	24.2	(6.0)	49.4	(12.4)	2.57	(0.60)	320	(56)	258	(289)	101.1	(0.0)
27	25.3	(5.8)	40.8	(9.3)	3.05	(0.90)	325	(90)	251	(286)	101.1	(0.0)
28	26.9	(5.8)	41.5	(11.9)	2.26	(1.33)	321	(117)	248	(288)	100.8	(0.1)
29	28.3	(6.2)	45.1	(12.8)	2.29	(1.62)	343	(138)	248	(279)	100.6	(0.1)
30	27.7	(5.9)	39.4	(14.4)	2.57	(1.53)	337	(134)	252	(283)	100.5	(0.0)
31	23.0	(4.8)	57.8	(12.3)	3.84	(0.65)	322	(39)	235	(270)	100.8	(0.1)
Avg	24.2		52.5		3.11		325		261		100.8	
n	31		31		31		31		30		31	
SD	2.3		7.0		0.74		10		19		0.2	
Min	19.7		39.4		1.36		279		199		100.5	
Max	28.5		65.3		4.59		343		287		101.2	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for September, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	24.8	(5.9)	57.2	(15.5)	2.94	(0.74)	320	(66)	245	(274)	100.9	(0.0)
2	26.9	(4.8)	45.7	(8.5)	3.49	(1.08)	321	(60)	203	(231)	100.8	(0.0)
3	27.7	(5.4)	40.6	(11.5)	3.43	(1.96)	334	(129)	240	(271)	100.8	(0.0)
4	24.0	(5.4)	41.9	(13.2)	3.50	(1.36)	328	(100)	248	(275)	100.8	(0.1)
5	20.9	(5.1)	65.2	(11.6)	4.38	(1.07)	322	(61)	246	(276)	101.1	(0.1)
6	20.8	(3.8)	59.6	(15.9)	3.56	(1.63)	329	(109)	247	(273)	101.1	(0.1)
7	21.3	(4.8)	58.6	(15.2)	3.27	(1.45)	329	(102)	242	(267)	100.7	(0.1)
8	23.3	(6.0)	48.6	(16.4)	1.66	(0.99)	330	(122)	243	(272)	100.7	(0.1)
9	24.1	(4.9)	48.3	(11.9)	2.71	(1.69)	327	(115)	224	(262)	101.0	(0.0)
10	25.5	(5.2)	46.3	(10.5)	2.26	(1.28)	325	(110)	207	(239)	100.9	(0.1)
11	27.6	(5.0)	43.5	(9.0)	2.00	(1.17)	322	(113)	212	(249)	100.5	(0.1)
12	24.1	(3.0)	53.5	(8.2)	3.17	(1.58)	334	(119)	141	(183)	100.4	(0.1)
13	19.9	(3.5)	68.2	(12.6)	3.69	(1.10)	328	(82)	192	(237)	100.8	(0.2)
14	19.8	(2.7)	72.8	(13.3)	3.20	(1.40)	323	(100)	202	(247)	101.2	(0.0)
15	21.4	(4.7)	68.4	(15.5)	1.96	(1.04)	328	(127)	221	(258)	101.2	(0.0)
16	22.6	(4.5)	60.9	(13.4)	2.70	(1.41)	330	(119)	217	(255)	101.0	(0.1)
17	24.0	(4.8)	62.8	(14.2)	2.37	(1.22)	334	(136)	208	(250)	100.7	(0.1)
18	26.9	(6.5)	53.9	(16.5)	1.17	(0.74)	43	(110)	207	(247)	100.7	(0.1)
19	25.9	(5.0)	50.0	(12.4)	1.91	(1.28)	333	(128)	205	(251)	100.8	(0.0)
20	24.1	(4.9)	58.3	(12.2)	2.55	(1.40)	328	(123)	214	(252)	100.9	(0.0)
21	25.9	(5.5)	52.3	(14.8)	1.56	(0.96)	332	(129)	205	(247)	100.9	(0.0)
22	26.5	(5.9)	44.9	(13.9)	1.48	(0.88)	337	(137)	203	(245)	100.9	(0.0)
23	26.4	(6.2)	41.1	(10.6)	1.63	(1.05)	357	(142)	201	(245)	100.8	(0.0)
24	25.9	(5.7)	41.1	(11.9)	2.10	(1.17)	357	(152)	204	(247)	100.8	(0.0)
25	24.6	(6.4)	46.8	(14.4)	2.10	(1.13)	335	(131)	201	(245)	100.9	(0.0)
26	26.3	(6.6)	45.3	(14.4)	1.22	(0.80)	19	(122)	193	(241)	100.7	(0.1)
27	27.3	(6.5)	45.9	(12.9)	1.18	(0.82)	39	(109)	195	(239)	100.4	(0.0)
28	22.8	(4.2)	48.2	(11.4)	3.12	(1.68)	340	(137)	183	(233)	100.6	(0.2)
29	16.9	(2.2)	52.8	(9.4)	4.38	(1.44)	326	(116)	137	(156)	101.2	(0.2)
30	15.6	(4.6)	50.8	(19.0)	3.92	(2.45)	305	(72)	212	(243)	101.5	(0.1)
Avg	23.8		52.4		2.62		336		210		100.9	
n	30		30		30		30		30		30	
SD	3.1		8.8		0.93		90		26		0.2	
Min	15.6		40.6		1.17		19		137		100.4	
Max	27.7		72.8		4.38		357		248		101.5	

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Table E1. Daily means (SD) of weather parameters at Site CA1B for October, 2009.

Day	Temp, ºC		RH, %		WS, m s^{-1}		WD, º		SE, W m^{-2}		ATM, kPa	
1	16.9	(6.3)	46.2	(16.4)	1.29	(0.91)	347	(136)	210	(240)	101.1	(0.2)
2	19.1	(6.6)	43.3	(17.2)	1.17	(0.82)	55	(105)	205	(236)	100.4	(0.2)
3	17.3	(3.4)	47.9	(9.2)	3.23	(1.78)	327	(127)	201	(227)	100.3	(0.1)
4	14.0	(3.8)	52.4	(16.1)	1.77	(1.17)	356	(128)	201	(237)	100.7	(0.2)
5	14.0	(4.7)	53.6	(17.3)	2.27	(1.47)	329	(115)	199	(233)	101.0	(0.0)
6	15.9	(5.4)	47.3	(13.7)	1.71	(1.15)	330	(118)	197	(231)	100.9	(0.0)
7	18.0	(5.5)	44.1	(15.0)	1.57	(0.99)	10	(129)	187	(223)	101.1	(0.1)
8	16.5	(4.6)	61.0	(14.3)	2.56	(1.03)	336	(121)	188	(220)	101.3	(0.0)
9	16.7	(5.0)	64.5	(16.9)	2.86	(1.36)	327	(105)	189	(224)	100.9	(0.2)
10	17.2	(4.9)	63.1	(14.6)	2.20	(1.14)	333	(123)	185	(221)	100.6	(0.0)
11	14.7	(3.5)	71.9	(10.7)	3.65	(1.34)	334	(86)	178	(213)	100.4	(0.0)
12	16.2	(3.6)	66.0	(13.2)	2.45	(1.43)	130	(100)	132	(167)	100.1	(0.1)
13	16.0	(1.0)	79.6	(9.6)	8.36	(2.14)	131	(5)			100.5	(0.4)
14											101.3	(0.1)
15											101.4	(0.1)
16											101.2	(0.1)
17											101.0	(0.0)
18											101.1	(0.0)
19											101.2	(0.0)
20											101.2	(0.0)
21	16.4	(4.3)	74.3	(11.3)	1.27	(0.98)	41	(112)				
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	16.3		58.2		2.60		357		189		100.9	
n	14		14		14		14		12		20	
SD	1.4		11.6		1.75		129		20		0.4	
Min	14.0		43.3		1.17		10		132		100.1	
Max	19.1		79.6		8.36		356		210		101.4	

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Table E2. Animal characteristics.

Table E2. Daily means of animal characteristics at Site CA1B for September, 2007.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21		0.07			0.07	
22		0.06			0.06	
23		0.06			0.06	
24		0.06			0.06	
25		0.07			0.07	
26		0.08			0.08	
27		0.10			0.10	
28	21,078	0.12	1.6	21,078	0.12	1.6
29	21,062	0.15	2.0	21,062	0.15	2.0
30	21,046	0.18	2.4	21,046	0.18	2.4
Avg	21,062	0.09	2.0	21,062	0.09	2.0
n	3	10	3	3	10	3
SD	13	0.04	0.3	13	0.04	0.3
Min	21,046	0.06	1.6	21,046	0.06	1.6
Max	21,078	0.18	2.4	21,078	0.18	2.4

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Table E2. Daily means of animal characteristics at Site CA1B for October, 2007.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,030	0.21	2.9	21,030	0.21	2.9
2	21,013	0.25	3.5	21,013	0.25	3.5
3	20,997	0.30	4.1	20,997	0.30	4.1
4	20,981	0.34	4.7	20,981	0.34	4.7
5	20,965	0.40	5.4	20,965	0.40	5.4
6	20,949	0.45	6.2	20,949	0.45	6.2
7	20,933	0.51	7.0	20,933	0.51	7.0
8	20,917	0.57	7.8	20,917	0.57	7.8
9	20,901	0.63	8.6	20,901	0.63	8.6
10	20,885	0.70	9.5	20,885	0.70	9.5
11	20,869	0.76	10.4	20,869	0.76	10.4
12	20,853	0.83	11.4	20,853	0.83	11.4
13	20,837	0.91	12.4	20,837	0.91	12.4
14	20,821	0.98	13.4	20,821	0.98	13.4
15	20,805	1.05	14.4	20,805	1.05	14.4
16	20,789	1.13	15.4	20,789	1.13	15.4
17	20,773	1.21	16.5	20,773	1.21	16.5
18	20,757	1.29	17.5	20,757	1.29	17.5
19	20,741	1.37	18.6	20,741	1.37	18.6
20	20,725	1.45	19.7	20,725	1.45	19.7
21	20,709	1.53	20.8	20,709	1.53	20.8
22	20,693	1.61	21.9	20,693	1.61	21.9
23	20,677	1.70	23.0	20,677	1.70	23.0
24	20,660	1.78	24.1	20,660	1.78	24.1
25	20,644	1.86	25.2	20,644	1.86	25.2
26	20,628	1.94	26.2	20,628	1.94	26.2
27	20,612	2.02	27.3	20,612	2.02	27.3
28	20,596	2.10	28.4	20,596	2.10	28.4
29	20,580	2.18	29.4	20,580	2.18	29.4
30	20,564	2.26	30.4	20,564	2.26	30.4
31	20,548	2.33	31.4	20,548	2.33	31.4
Avg	20,789	1.18	16.0	20,789	1.18	16.0
n	31	31	31	31	31	31
SD	143	0.66	8.8	143	0.66	8.8
Min	20,548	0.21	2.9	20,548	0.21	2.9
Max	21,030	2.33	31.4	21,030	2.33	31.4

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Table E2. Daily means of animal characteristics at Site CA1B for November, 2007.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,532	2.41	32.4	20,532	2.41	32.4
2	20,516	2.48	33.4	20,516	2.48	33.4
3	3,417			854	2.55	1.4
4	0			0		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	0			0		
10	0			0		
11	0			0		
12	0			0		
13	0			0		
14	0			0		
15	13,766			14,539		
16	21,276	0.07	1.0	21,079	0.07	0.9
17	21,218	0.06	0.8	21,024	0.06	0.8
18	21,166	0.06	0.8	20,993	0.06	0.8
19	21,122	0.06	0.8	20,971	0.06	0.8
20	21,096	0.07	0.9	20,942	0.07	0.9
21	21,073	0.08	1.1	20,923	0.08	1.1
22	21,047	0.10	1.3	20,903	0.10	1.3
23	21,028	0.12	1.6	20,885	0.12	1.6
24	21,002	0.15	2.0	20,868	0.15	2.0
25	20,987	0.18	2.5	20,850	0.18	2.5
26	20,979	0.21	2.9	20,838	0.22	2.9
27	20,966	0.25	3.5	20,831	0.26	3.5
28	20,954	0.30	4.1	20,822	0.30	4.1
29	20,942	0.35	4.7	20,812	0.35	4.7
30	20,929	0.40	5.4	20,798	0.40	5.4
Avg	12,467	0.43	5.8	12,333	0.55	5.6
n	30	17	17	30	18	18
SD	10,048	0.74	10.0	10,076	0.87	9.8
Min	0	0.06	0.8	0	0.06	0.8
Max	21,276	2.48	33.4	21,079	2.55	33.4

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Table E2. Daily means of animal characteristics at Site CA1B for December, 2007.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,927	0.45	6.2	20,790	0.45	6.2
2	20,920	0.51	7.0	20,784	0.51	7.0
3	20,912	0.57	7.8	20,777	0.57	7.8
4	20,901	0.63	8.6	20,767	0.63	8.6
5	20,891	0.70	9.5	20,759	0.70	9.5
6	20,884	0.76	10.5	20,746	0.77	10.4
7	20,881	0.83	11.4	20,739	0.84	11.4
8	20,876	0.91	12.4	20,733	0.91	12.4
9	20,873	0.98	13.4	20,730	0.98	13.4
10	20,867	1.06	14.5	20,722	1.06	14.4
11	20,865	1.13	15.5	20,719	1.14	15.4
12	20,858	1.21	16.6	20,713	1.21	16.5
13	20,853	1.29	17.7	20,705	1.29	17.6
14	20,847	1.37	18.7	20,700	1.37	18.7
15	20,835	1.45	19.8	20,691	1.46	19.7
16	20,826	1.53	20.9	20,686	1.54	20.8
17	20,820	1.62	22.1	20,679	1.62	21.9
18	20,811	1.70	23.2	20,669	1.70	23.0
19	20,804	1.78	24.3	20,664	1.78	24.2
20	20,796	1.86	25.4	20,655	1.86	25.2
21	20,791	1.94	26.5	20,645	1.95	26.3
22	20,784	2.02	27.6	20,633	2.03	27.4
23	20,778	2.10	28.6	20,624	2.11	28.5
24	20,770	2.18	29.7	20,616	2.18	29.5
25	20,764	2.26	30.8	20,607	2.26	30.6
26	20,755	2.34	31.8	20,597	2.34	31.6
27	20,744	2.41	32.8	20,585	2.41	32.6
28	20,734	2.48	33.8	20,574	2.49	33.5
29	20,722	2.55	34.7	20,561	2.56	34.5
30	20,705	2.62	35.6	20,539	2.63	35.4
31	13,803			20,529	2.69	36.2
Avg	20,600	1.51	20.6	20,675	1.55	21.0
n	31	30	30	31	31	31
SD	1,242	0.67	9.1	73	0.69	9.3
Min	13,803	0.45	6.2	20,529	0.45	6.2
Max	20,927	2.62	35.6	20,790	2.69	36.2

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Table E2. Daily means of animal characteristics at Site CA1B for January, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	0			18,802	2.75	37.0
2	0			0		
3	0			0		
4	0			0		
5	0			4,762		
6	0			9,134	0.07	0.4
7	9,308			14,405	0.06	0.6
8	21,214	0.07	1.0	21,053	0.06	0.8
9	21,175	0.06	0.8	21,001	0.06	0.8
10	21,128	0.06	0.8	20,965	0.06	0.9
11	21,112	0.06	0.8	20,942	0.08	1.1
12	21,089	0.06	0.9	20,920	0.09	1.3
13	21,068	0.08	1.0	20,890	0.12	1.6
14	21,056	0.09	1.3	20,873	0.14	2.0
15	21,030	0.11	1.6	20,860	0.17	2.4
16	21,016	0.14	1.9	20,843	0.21	2.9
17	20,997	0.17	2.4	20,833	0.25	3.4
18	20,985	0.21	2.8	20,825	0.29	4.0
19	20,979	0.25	3.4	20,819	0.34	4.6
20	20,963	0.29	4.0	20,805	0.39	5.3
21	20,944	0.34	4.6	20,795	0.44	6.0
22	20,932	0.39	5.3	20,783	0.50	6.8
23	20,910	0.44	6.0	20,774	0.56	7.6
24	20,894	0.50	6.8	20,768	0.62	8.5
25	20,880	0.56	7.6	20,765	0.69	9.4
26	20,859	0.62	8.4	20,754	0.76	10.3
27	20,850	0.68	9.3	20,741	0.83	11.2
28	20,832	0.75	10.2	20,727	0.90	12.2
29	20,813	0.82	11.2	20,710	0.97	13.2
30	20,805	0.89	12.2	20,702	1.05	14.2
31	20,792	0.97	13.2	20,696	1.12	15.2
Avg	16,536	0.36	4.9	17,643	0.50	6.8
n	31	24	24	31	27	27
SD	8,358	0.29	4.0	6,786	0.55	7.5
Min	0	0.06	0.8	0	0.06	0.4
Max	21,214	0.97	13.2	21,053	2.75	37.0

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Table E2. Daily means of animal characteristics at Site CA1B for February, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,779	1.04	14.2	20,686	1.20	16.3
2	20,764	1.12	15.2	20,667	1.28	17.4
3	20,751	1.20	16.3	20,646	1.36	18.4
4	20,735	1.27	17.3	20,628	1.44	19.5
5	20,724	1.35	18.4	20,620	1.52	20.6
6	20,714	1.44	19.5	20,610	1.60	21.7
7	20,702	1.52	20.6	20,594	1.69	22.8
8	20,695	1.60	21.7	20,586	1.77	23.9
9	20,682	1.68	22.8	20,577	1.85	25.0
10	20,667	1.76	23.9	20,565	1.93	26.0
11	20,650	1.84	25.0	20,551	2.01	27.1
12	20,643	1.92	26.1	20,544	2.09	28.2
13	20,631	2.01	27.1	20,533	2.17	29.2
14	20,617	2.09	28.2	20,518	2.25	30.3
15	20,607	2.16	29.3	20,512	2.33	31.3
16	20,597	2.24	30.3	20,500	2.40	32.3
17	20,571	2.32	31.3	20,468	2.47	33.2
18	20,554	2.39	32.3	20,446	2.55	34.1
19	20,518	2.47	33.2	20,427	2.61	35.0
20	20,484	2.54	34.1	20,364	2.68	35.8
21	19,631	2.61	35.0	19,516		
22	0			0		
23	0			0		
24	0			0		
25	0			0		
26	0			0		
27	0			0		
28	12,414			12,416		
29	21,247	0.07	1.0	21,258	0.07	1.0
Avg	16,082	1.76	23.8	16,008	1.87	25.2
n	29	22	22	29	21	21
SD	8,352	0.60	8.0	8,312	0.60	8.0
Min	0	0.07	1.0	0	0.07	1.0
Max	21,247	2.61	35.0	21,258	2.68	35.8

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Table E2. Daily means of animal characteristics at Site CA1B for March, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,217	0.06	0.8	21,237	0.06	0.8
2	21,185	0.06	0.8	21,197	0.06	0.8
3	21,160	0.06	0.8	21,164	0.06	0.8
4	21,138	0.07	0.9	21,137	0.07	0.9
5	21,125	0.08	1.1	21,115	0.08	1.1
6	21,108	0.10	1.3	21,101	0.10	1.3
7	21,087	0.12	1.6	21,084	0.12	1.6
8	21,073	0.14	2.0	21,079	0.14	2.0
9	21,056	0.18	2.4	21,067	0.18	2.4
10	21,042	0.21	2.9	21,057	0.21	2.9
11	21,024	0.25	3.5	21,048	0.25	3.5
12	21,008	0.29	4.1	21,032	0.29	4.1
13	20,990	0.34	4.7	21,024	0.34	4.7
14	20,972	0.39	5.4	21,020	0.39	5.4
15	20,952	0.45	6.1	21,001	0.45	6.2
16	20,937	0.50	6.9	20,977	0.50	6.9
17	20,925	0.56	7.7	20,962	0.56	7.8
18	20,909	0.63	8.6	20,952	0.63	8.6
19	20,891	0.69	9.5	20,938	0.69	9.5
20	20,868	0.76	10.4	20,922	0.76	10.4
21	20,840	0.83	11.3	20,901	0.83	11.4
22	20,807	0.90	12.3	20,879	0.90	12.3
23	20,781	0.98	13.3	20,859	0.98	13.3
24	20,747	1.05	14.3	20,842	1.05	14.4
25	20,729	1.13	15.3	20,824	1.13	15.4
26	20,710	1.21	16.4	20,810	1.21	16.5
27	20,696	1.29	17.4	20,798	1.29	17.5
28	20,678	1.37	18.5	20,783	1.37	18.6
29	20,663	1.45	19.6	20,765	1.45	19.7
30	20,647	1.53	20.7	20,751	1.53	20.8
31	20,635	1.61	21.8	20,733	1.61	21.9
Avg	20,923	0.62	8.5	20,970	0.62	8.5
n	31	31	31	31	31	31
SD	174	0.50	6.7	138	0.50	6.8
Min	20,635	0.06	0.8	20,733	0.06	0.8
Max	21,217	1.61	21.8	21,237	1.61	21.9

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Table E2. Daily means of animal characteristics at Site CA1B for April, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,622	1.69	22.9	20,717	1.69	23.0
2	20,611	1.77	24.0	20,699	1.77	24.1
3	20,598	1.86	25.1	20,683	1.86	25.2
4	20,581	1.94	26.1	20,668	1.94	26.2
5	20,564	2.02	27.2	20,652	2.02	27.3
6	20,548	2.10	28.3	20,635	2.10	28.4
7	20,528	2.18	29.3	20,613	2.18	29.4
8	20,517	2.25	30.3	20,591	2.25	30.4
9	20,501	2.33	31.3	20,573	2.33	31.4
10	20,481	2.41	32.3	20,553	2.41	32.4
11	20,463	2.48	33.3	20,536	2.48	33.4
12	20,463	2.55	34.2	20,536	2.55	34.3
13	20,463	2.62	35.1	20,536	2.62	35.3
14	20,463	2.69	36.0	20,536	2.69	36.2
15	2,558			4,706		
16	0			0		
17	0			0		
18	0			0		
19	0			0		
20	0			0		
21	0			0		
22	16,433	0.08	1.1	12,968		
23	21,259	0.07	0.9	21,360	0.07	1.0
24	21,249	0.06	0.8	21,320	0.06	0.8
25	21,231	0.06	0.8	21,294	0.06	0.8
26	21,220	0.06	0.8	21,274	0.06	0.8
27	21,205	0.07	0.9	21,250	0.07	0.9
28	21,188	0.08	1.1	21,218	0.08	1.1
29	21,178	0.10	1.4	21,190	0.10	1.3
30	21,161	0.12	1.7	21,174	0.12	1.6
Avg	15,870	1.37	18.5	15,876	1.43	19.3
n	30	23	23	30	22	22
SD	8,604	1.07	14.3	8,546	1.05	14.2
Min	0	0.06	0.8	0	0.06	0.8
Max	21,259	2.69	36.0	21,360	2.69	36.2

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Table E2. Daily means of animal characteristics at Site CA1B for May, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,150	0.15	2.1	21,157	0.15	2.0
2	21,135	0.18	2.5	21,147	0.18	2.4
3	21,129	0.22	3.0	21,142	0.21	2.9
4	21,121	0.26	3.6	21,133	0.25	3.5
5	21,110	0.30	4.2	21,120	0.30	4.1
6	21,100	0.35	4.9	21,107	0.34	4.7
7	21,094	0.40	5.6	21,095	0.39	5.4
8	21,085	0.46	6.3	21,082	0.45	6.2
9	21,082	0.52	7.1	21,070	0.51	7.0
10	21,072	0.58	8.0	21,056	0.57	7.8
11	21,060	0.64	8.8	21,045	0.63	8.7
12	21,045	0.71	9.7	21,033	0.69	9.6
13	21,025	0.77	10.7	21,007	0.76	10.5
14	21,019	0.84	11.6	20,992	0.83	11.4
15	21,010	0.92	12.6	20,978	0.90	12.4
16	20,998	0.99	13.6	20,969	0.98	13.4
17	20,988	1.07	14.7	20,953	1.05	14.5
18	20,976	1.14	15.7	20,942	1.13	15.5
19	20,961	1.22	16.8	20,927	1.21	16.6
20	20,949	1.30	17.9	20,915	1.29	17.7
21	20,931	1.38	19.0	20,900	1.37	18.7
22	20,917	1.46	20.1	20,887	1.45	19.8
23	20,901	1.54	21.2	20,873	1.53	20.9
24	20,888	1.63	22.3	20,856	1.61	22.0
25	20,873	1.71	23.4	20,842	1.69	23.1
26	20,856	1.79	24.5	20,827	1.78	24.2
27	20,840	1.87	25.6	20,811	1.86	25.3
28	20,818	1.95	26.6	20,793	1.94	26.4
29	20,800	2.03	27.7	20,774	2.02	27.5
30	20,781	2.11	28.8	20,749	2.10	28.6
31	20,765	2.19	29.8	20,726	2.18	29.6
Avg	20,983	1.05	14.5	20,965	1.04	14.3
n	31	31	31	31	31	31
SD	113	0.63	8.6	127	0.63	8.6
Min	20,765	0.15	2.1	20,726	0.15	2.0
Max	21,150	2.19	29.8	21,157	2.18	29.6

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Table E2. Daily means of animal characteristics at Site CA1B for June, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,750	2.27	30.9	20,695	2.26	30.6
2	20,733	2.34	31.9	20,671	2.33	31.6
3	20,714	2.42	32.9	20,649	2.41	32.6
4	20,700	2.49	33.8	20,622	2.48	33.5
5	20,675	2.56	34.7	20,590	2.55	34.4
6	18,952	2.63	35.6	12,440		
7	0			0		
8	0			0		
9	0			0		
10	0			0		
11	0			0		
12	0			0		
13	0			0		
14	13,274			14,185		
15	21,222	0.07	1.0	21,261	0.07	0.9
16	21,212	0.06	0.8	21,242	0.06	0.8
17	21,169	0.06	0.8	21,213	0.06	0.8
18	21,137	0.06	0.8	21,191	0.06	0.8
19	21,114	0.07	0.9	21,171	0.07	0.9
20	21,100	0.08	1.1	21,159	0.08	1.1
21	21,093	0.10	1.3	21,150	0.10	1.3
22	21,080	0.12	1.6	21,137	0.12	1.7
23	21,072	0.15	2.0	21,128	0.15	2.0
24	21,063	0.18	2.4	21,120	0.18	2.5
25	21,047	0.21	2.9	21,109	0.21	3.0
26	21,036	0.25	3.5	21,101	0.25	3.5
27	21,029	0.30	4.1	21,093	0.30	4.1
28	21,026	0.34	4.7	21,089	0.35	4.8
29	21,019	0.40	5.4	21,081	0.40	5.5
30	21,006	0.45	6.2	21,070	0.45	6.2
Avg	15,774	0.80	10.9	15,606	0.71	9.7
n	30	22	22	30	21	21
SD	8,817	1.02	13.8	8,822	0.96	12.9
Min	0	0.06	0.8	0	0.06	0.8
Max	21,222	2.63	35.6	21,261	2.55	34.4

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Table E2. Daily means of animal characteristics at Site CA1B for July, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,998	0.51	7.0	21,062	0.51	7.0
2	20,984	0.57	7.8	21,048	0.57	7.9
3	20,970	0.63	8.7	21,037	0.63	8.7
4	20,957	0.70	9.6	21,023	0.70	9.6
5	20,942	0.76	10.5	21,011	0.77	10.5
6	20,916	0.83	11.4	20,989	0.84	11.5
7	20,888	0.91	12.4	20,964	0.91	12.5
8	20,868	0.98	13.4	20,952	0.98	13.5
9	20,850	1.05	14.4	20,938	1.06	14.5
10	20,830	1.13	15.5	20,925	1.13	15.6
11	20,815	1.21	16.5	20,911	1.21	16.6
12	20,801	1.29	17.6	20,892	1.29	17.7
13	20,781	1.37	18.7	20,876	1.37	18.8
14	20,750	1.45	19.7	20,849	1.45	19.9
15	20,717	1.53	20.8	20,830	1.54	21.0
16	20,693	1.61	21.9	20,806	1.62	22.1
17	20,665	1.70	23.0	20,784	1.70	23.2
18	20,640	1.78	24.1	20,764	1.78	24.2
19	20,623	1.86	25.1	20,749	1.86	25.3
20	20,600	1.94	26.2	20,726	1.94	26.4
21	20,551	2.02	27.2	20,695	2.02	27.5
22	20,520	2.10	28.3	20,669	2.10	28.5
23	20,468	2.18	29.3	20,639	2.18	29.5
24	20,410	2.26	30.2	20,604	2.26	30.5
25	20,357	2.33	31.1	20,573	2.34	31.5
26	20,339	2.41	32.1	20,562	2.41	32.5
27	20,270	2.48	33.0	20,516	2.48	33.4
28	20,217	2.55	33.8	20,487	2.56	34.3
29	20,157	2.62	34.7	20,455	2.62	35.2
30	20,002	2.69	35.3	20,426	2.69	36.0
31	19,822	2.75	35.8	20,386	2.76	36.8
Avg	20,626	1.62	21.8	20,779	1.62	22.0
n	31	31	31	31	31	31
SD	301	0.69	9.0	200	0.69	9.2
Min	19,822	0.51	7.0	20,386	0.51	7.0
Max	20,998	2.75	35.8	21,062	2.76	36.8

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Table E2. Daily means of animal characteristics at Site CA1B for August, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	4,920			5,090		
2	0			0		
3	0			0		
4	0			0		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	0			0		
10	0			0		
11	12,517			12,515		
12	21,415	0.07	1.0	21,422	0.07	1.0
13	21,393	0.06	0.8	21,401	0.06	0.8
14	21,363	0.06	0.8	21,377	0.06	0.8
15	21,340	0.06	0.8	21,357	0.06	0.8
16	21,319	0.06	0.9	21,345	0.06	0.9
17	21,300	0.08	1.1	21,330	0.08	1.1
18	21,282	0.09	1.3	21,317	0.09	1.3
19	21,276	0.12	1.6	21,309	0.12	1.6
20	21,272	0.14	2.0	21,303	0.14	2.0
21	21,265	0.17	2.4	21,300	0.17	2.4
22	21,260	0.21	2.9	21,296	0.21	2.9
23	21,258	0.25	3.5	21,294	0.25	3.5
24	21,254	0.29	4.1	21,289	0.29	4.1
25	21,247	0.34	4.7	21,283	0.34	4.7
26	21,232	0.39	5.4	21,272	0.39	5.4
27	21,221	0.44	6.2	21,267	0.44	6.2
28	21,210	0.50	7.0	21,260	0.50	7.0
29	21,202	0.56	7.8	21,253	0.56	7.8
30	21,197	0.62	8.7	21,247	0.62	8.7
31	21,180	0.69	9.6	21,240	0.69	9.6
Avg	14,288	0.26	3.6	14,315	0.26	3.6
n	31	20	20	31	20	20
SD	9,680	0.20	2.8	9,690	0.20	2.8
Min	0	0.06	0.8	0	0.06	0.8
Max	21,415	0.69	9.6	21,422	0.69	9.6

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Table E2. Daily means of animal characteristics at Site CA1B for September, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,167	0.76	10.5	21,231	0.76	10.5
2	21,158	0.83	11.5	21,218	0.83	11.5
3	21,147	0.90	12.5	21,206	0.90	12.5
4	21,141	0.97	13.5	21,188	0.97	13.5
5	21,127	1.05	14.5	21,176	1.05	14.6
6	21,121	1.13	15.6	21,164	1.13	15.6
7	21,116	1.20	16.7	21,154	1.20	16.7
8	21,105	1.28	17.7	21,138	1.28	17.8
9	21,092	1.36	18.8	21,130	1.36	18.9
10	21,085	1.44	20.0	21,122	1.44	20.0
11	21,078	1.52	21.1	21,114	1.52	21.1
12	21,072	1.61	22.2	21,105	1.61	22.2
13	21,049	1.69	23.3	21,088	1.69	23.4
14	21,036	1.77	24.4	21,074	1.77	24.5
15	21,016	1.85	25.5	21,058	1.85	25.6
16	20,983	1.93	26.6	21,041	1.93	26.7
17	20,940	2.01	27.7	21,026	2.01	27.8
18	20,905	2.09	28.7	20,990	2.09	28.8
19	20,892	2.17	29.8	20,974	2.17	29.9
20	20,881	2.25	30.8	20,957	2.25	30.9
21	20,868	2.33	31.8	20,929	2.33	31.9
22	20,855	2.40	32.8	20,908	2.40	32.9
23	20,839	2.48	33.8	20,891	2.48	33.9
24	20,817	2.55	34.8	20,861	2.55	34.8
25	20,799	2.62	35.7	20,838	2.62	35.7
26	20,799	2.68	36.6	19,102	2.68	36.6
27	2,600			0		
28	0			0		
29	0			0		
30	0			0		
Avg	18,290	1.73	23.7	18,189	1.73	23.8
n	30	26	26	30	26	26
SD	6,932	0.59	8.0	7,144	0.59	8.0
Min	0	0.76	10.5	0	0.76	10.5
Max	21,167	2.68	36.6	21,231	2.68	36.6

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Table E2. Daily means of animal characteristics at Site CA1B for October, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	0			0		
2	0			0		
3	0			0		
4	0			0		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	0			0		
10	0			0		
11	0			0		
12	0			0		
13	0			0		
14	0			0		
15	0			0		
16	0			0		
17	0			0		
18	0			0		
19	0			0		
20	15,681			11,089		
21	21,212	0.07	0.9	21,250	0.07	1.0
22	21,192	0.06	0.8	21,232	0.06	0.8
23	21,196	0.06	0.8	21,212	0.06	0.8
24	21,178	0.06	0.8	21,197	0.06	0.8
25	21,175	0.07	0.9	21,186	0.06	0.9
26	21,157	0.08	1.1	21,176	0.08	1.1
27	21,155	0.10	1.4	21,163	0.09	1.3
28	21,150	0.12	1.7	21,151	0.12	1.6
29	21,146	0.15	2.1	21,142	0.14	2.0
30	21,138	0.18	2.5	21,135	0.17	2.4
31	21,129	0.22	3.0	21,128	0.21	2.9
Avg	8,016	0.11	1.5	7,873	0.10	1.4
n	31	11	11	31	11	11
SD	10,131	0.05	0.7	10,057	0.05	0.7
Min	0	0.06	0.8	0	0.06	0.8
Max	21,212	0.22	3.0	21,250	0.21	2.9

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Table E2. Daily means of animal characteristics at Site CA1B for November, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,122	0.26	3.6	21,123	0.25	3.4
2	21,118	0.30	4.2	21,115	0.29	4.0
3	21,108	0.35	4.8	21,108	0.34	4.7
4	21,106	0.40	5.5	21,103	0.39	5.4
5	21,099	0.46	6.3	21,092	0.44	6.1
6	21,099	0.51	7.1	21,080	0.50	6.9
7	21,089	0.57	7.9	21,076	0.56	7.7
8	21,090	0.64	8.8	21,060	0.62	8.6
9	21,079	0.70	9.7	21,051	0.69	9.5
10	21,076	0.77	10.6	21,037	0.76	10.4
11	21,060	0.84	11.6	21,022	0.83	11.4
12	21,063	0.91	12.6	21,007	0.90	12.4
13	21,053	0.99	13.6	21,000	0.97	13.4
14	21,053	1.06	14.7	20,995	1.05	14.4
15	21,043	1.14	15.7	20,987	1.12	15.5
16	21,043	1.22	16.8	20,978	1.20	16.5
17	21,030	1.30	17.9	20,968	1.28	17.6
18	21,032	1.38	19.0	20,957	1.36	18.7
19	21,023	1.46	20.1	20,950	1.44	19.8
20	21,020	1.54	21.2	20,947	1.52	20.9
21	21,010	1.62	22.4	20,938	1.60	22.0
22	21,011	1.70	23.5	20,927	1.69	23.1
23	21,000	1.79	24.6	20,917	1.77	24.3
24	20,999	1.87	25.7	20,904	1.85	25.4
25	20,985	1.95	26.8	20,895	1.93	26.5
26	20,988	2.03	27.9	20,885	2.01	27.6
27	20,975	2.11	29.0	20,873	2.09	28.6
28	20,977	2.19	30.1	20,862	2.17	29.7
29	20,968	2.27	31.2	20,849	2.25	30.7
30	20,967	2.34	32.2	20,837	2.33	31.8
Avg	21,043	1.22	16.8	20,985	1.21	16.6
n	30	30	30	30	30	30
SD	48	0.64	8.8	85	0.64	8.8
Min	20,967	0.26	3.6	20,837	0.25	3.4
Max	21,122	2.34	32.2	21,123	2.33	31.8

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Table E2. Daily means of animal characteristics at Site CA1B for December, 2008.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,955	2.42	33.2	20,824	2.40	32.8
2	20,960	2.49	34.2	20,819	2.47	33.8
3	20,951	2.56	35.2	20,811	2.55	34.7
4	873			867		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	0			0		
10	0			0		
11	0			0		
12	9,763			12,392		
13	21,265	0.07	1.0	21,184	0.07	1.0
14	21,232	0.06	0.8	21,139	0.06	0.8
15	21,198	0.06	0.8	21,135	0.06	0.8
16	21,168	0.06	0.8	21,114	0.06	0.8
17	21,138	0.06	0.9	21,106	0.07	0.9
18	21,123	0.08	1.1	21,090	0.08	1.1
19	21,106	0.09	1.3	21,098	0.10	1.3
20	21,095	0.11	1.6	21,088	0.12	1.6
21	21,083	0.14	1.9	21,086	0.14	2.0
22	21,073	0.17	2.4	21,075	0.18	2.4
23	21,064	0.21	2.9	21,072	0.21	2.9
24	21,056	0.25	3.4	21,060	0.25	3.5
25	21,047	0.29	4.0	21,063	0.29	4.1
26	21,036	0.34	4.6	21,053	0.34	4.7
27	21,027	0.39	5.3	21,050	0.39	5.4
28	21,016	0.44	6.1	21,040	0.45	6.2
29	21,006	0.50	6.8	21,038	0.50	7.0
30	20,998	0.56	7.7	21,027	0.56	7.8
31	20,984	0.62	8.5	21,027	0.63	8.6
Avg	15,297	0.54	7.5	15,363	0.54	7.5
n	31	22	22	31	22	22
SD	9,177	0.79	10.9	9,126	0.79	10.7
Min	0	0.06	0.8	0	0.06	0.8
Max	21,265	2.56	35.2	21,184	2.55	34.7

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Table E2. Daily means of animal characteristics at Site CA1B for January, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,979	0.68	9.4	21,021	0.69	9.5
2	20,964	0.75	10.3	21,012	0.76	10.5
3	20,956	0.82	11.3	20,998	0.83	11.4
4	20,945	0.89	12.3	20,997	0.90	12.4
5	20,932	0.97	13.3	20,984	0.98	13.4
6	20,920	1.04	14.3	20,983	1.05	14.5
7	20,911	1.12	15.3	20,971	1.13	15.5
8	20,902	1.20	16.4	20,974	1.21	16.6
9	20,894	1.28	17.5	20,960	1.29	17.7
10	20,887	1.36	18.6	20,967	1.37	18.8
11	20,878	1.44	19.7	20,957	1.45	19.9
12	20,867	1.52	20.8	20,955	1.53	21.0
13	20,856	1.60	21.9	20,941	1.61	22.1
14	20,846	1.68	23.0	20,942	1.69	23.2
15	20,833	1.76	24.1	20,932	1.77	24.3
16	20,819	1.85	25.2	20,930	1.86	25.5
17	20,802	1.93	26.3	20,914	1.94	26.6
18	20,787	2.01	27.4	20,915	2.02	27.7
19	20,773	2.09	28.4	20,902	2.10	28.7
20	20,760	2.17	29.5	20,901	2.18	29.8
21	20,750	2.24	30.5	20,884	2.25	30.9
22	20,730	2.32	31.5	20,883	2.33	31.9
23	20,707	2.40	32.5	20,858	2.41	32.9
24	20,686	2.47	33.5	20,861	2.48	33.9
25	20,657	2.54	34.4	20,828	2.55	34.8
26	20,625	2.61	35.3	20,821	2.62	35.8
27	20,625	2.68	36.2	20,821	2.69	36.7
28	11,172			6,940		
29	0			0		
30	0			0		
31	0			0		
Avg	18,499	1.68	22.9	18,453	1.69	23.2
n	31	27	27	31	27	27
SD	6,291	0.61	8.2	6,525	0.61	8.3
Min	0	0.68	9.4	0	0.69	9.5
Max	20,979	2.68	36.2	21,021	2.69	36.7

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Table E2. Daily means of animal characteristics at Site CA1B for February, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	0			0		
2	0			0		
3	0			0		
4	0			0		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	9,850			10,636		
10	21,454	0.07	1.0	21,230	0.07	1.0
11	21,416	0.06	0.9	21,180	0.06	0.8
12	21,397	0.06	0.8	21,143	0.06	0.8
13	21,384	0.06	0.8	21,117	0.06	0.8
14	21,356	0.06	0.9	21,095	0.06	0.9
15	21,336	0.08	1.1	21,075	0.08	1.1
16	21,317	0.09	1.3	21,061	0.09	1.3
17	21,307	0.11	1.6	21,041	0.12	1.6
18	21,296	0.14	2.0	21,023	0.14	2.0
19	21,269	0.17	2.4	21,008	0.17	2.4
20	21,258	0.21	2.9	20,994	0.21	2.9
21	21,249	0.25	3.4	20,988	0.25	3.4
22	21,218	0.29	4.0	20,975	0.29	4.0
23	21,202	0.34	4.7	20,963	0.34	4.6
24	21,181	0.39	5.4	20,957	0.39	5.3
25	21,159	0.44	6.1	20,944	0.44	6.1
26	21,134	0.50	6.9	20,929	0.50	6.8
27	21,115	0.56	7.7	20,921	0.56	7.7
28	21,091	0.62	8.6	20,908	0.62	8.5
Avg	14,785	0.24	3.3	14,650	0.24	3.3
n	28	19	19	28	19	19
SD	9,585	0.18	2.5	9,461	0.18	2.5
Min	0	0.06	0.8	0	0.06	0.8
Max	21,454	0.62	8.6	21,230	0.62	8.5

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Table E2. Daily means of animal characteristics at Site CA1B for March, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	21,072	0.68	9.5	20,898	0.69	9.4
2	21,052	0.75	10.4	20,886	0.75	10.3
3	21,044	0.82	11.3	20,872	0.82	11.3
4	21,028	0.89	12.3	20,855	0.90	12.3
5	21,007	0.97	13.3	20,848	0.97	13.3
6	20,998	1.04	14.3	20,841	1.04	14.3
7	20,978	1.12	15.4	20,826	1.12	15.3
8	20,960	1.20	16.4	20,811	1.20	16.4
9	20,936	1.28	17.5	20,792	1.28	17.4
10	20,917	1.36	18.6	20,774	1.36	18.5
11	20,902	1.44	19.7	20,762	1.44	19.6
12	20,888	1.52	20.8	20,741	1.52	20.7
13	20,873	1.60	21.9	20,723	1.60	21.8
14	20,861	1.68	23.0	20,716	1.69	22.9
15	20,847	1.76	24.1	20,702	1.77	24.0
16	20,829	1.85	25.2	20,691	1.85	25.1
17	20,801	1.93	26.3	20,672	1.93	26.2
18	20,778	2.01	27.4	20,648	2.01	27.2
19	20,747	2.09	28.4	20,615	2.09	28.3
20	20,724	2.17	29.4	20,596	2.17	29.3
21	20,694	2.24	30.5	20,576	2.25	30.3
22	20,658	2.32	31.4	20,549	2.32	31.3
23	20,616	2.40	32.4	20,490	2.40	32.2
24	20,595	2.47	33.3	20,447	2.47	33.1
25	20,552	2.54	34.2	20,392	2.54	34.0
26	20,514	2.61	35.1	20,348	2.61	34.9
27	20,514	2.68	36.0	5,935		
28	0			0		
29	0			0		
30	0			0		
31	0			0		
Avg	18,141	1.68	22.9	17,549	1.65	22.3
n	31	27	27	31	26	26
SD	6,984	0.61	8.2	7,239	0.59	7.9
Min	0	0.68	9.5	0	0.69	9.4
Max	21,072	2.68	36.0	20,898	2.61	34.9

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Table E2. Daily means of animal characteristics at Site CA1B for April, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	0			0		
2	0			0		
3	0			0		
4	0			0		
5	0			0		
6	0			0		
7	0			0		
8	0			0		
9	0			0		
10	10,629			10,631		
11	21,218	0.07	1.0	21,242	0.07	1.0
12	21,168	0.06	0.8	21,188	0.06	0.8
13	21,146	0.06	0.8	21,162	0.06	0.8
14	21,120	0.06	0.8	21,130	0.06	0.8
15	21,097	0.06	0.9	21,110	0.06	0.9
16	21,077	0.08	1.1	21,088	0.08	1.1
17	21,042	0.09	1.3	21,056	0.09	1.3
18	21,033	0.12	1.6	21,043	0.12	1.6
19	21,026	0.14	2.0	21,037	0.14	2.0
20	21,016	0.17	2.4	21,027	0.17	2.4
21	21,011	0.21	2.9	21,022	0.21	2.9
22	21,007	0.25	3.4	21,018	0.25	3.4
23	21,002	0.29	4.0	21,014	0.29	4.0
24	20,993	0.34	4.7	20,998	0.34	4.7
25	20,985	0.39	5.3	20,986	0.39	5.3
26	20,976	0.44	6.1	20,975	0.44	6.1
27	20,957	0.50	6.9	20,954	0.50	6.9
28	20,946	0.56	7.7	20,940	0.56	7.7
29	20,933	0.62	8.5	20,931	0.62	8.5
30	20,922	0.69	9.4	20,921	0.69	9.4
Avg	14,377	0.26	3.6	14,382	0.26	3.6
n	30	20	20	30	20	20
SD	9,593	0.20	2.8	9,597	0.20	2.8
Min	0	0.06	0.8	0	0.06	0.8
Max	21,218	0.69	9.4	21,242	0.69	9.4

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Table E2. Daily means of animal characteristics at Site CA1B for May, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,914	0.75	10.3	20,913	0.75	10.3
2	20,898	0.82	11.3	20,906	0.82	11.3
3	20,884	0.90	12.3	20,890	0.90	12.3
4	20,869	0.97	13.3	20,870	0.97	13.3
5	20,864	1.04	14.3	20,859	1.04	14.3
6	20,852	1.12	15.3	20,849	1.12	15.3
7	20,843	1.20	16.4	20,834	1.20	16.4
8	20,831	1.28	17.5	20,819	1.28	17.5
9	20,817	1.36	18.6	20,811	1.36	18.5
10	20,800	1.44	19.6	20,796	1.44	19.6
11	20,780	1.52	20.7	20,779	1.52	20.7
12	20,759	1.60	21.8	20,760	1.60	21.8
13	20,736	1.69	22.9	20,742	1.69	22.9
14	20,722	1.77	24.0	20,732	1.77	24.0
15	20,685	1.85	25.1	20,703	1.85	25.1
16	20,667	1.93	26.2	20,693	1.93	26.2
17	20,646	2.01	27.2	20,675	2.01	27.3
18	20,620	2.09	28.3	20,656	2.09	28.3
19	20,585	2.17	29.3	20,633	2.17	29.4
20	20,555	2.25	30.3	20,623	2.25	30.4
21	20,447	2.32	31.2	20,592	2.32	31.4
22	20,379	2.40	32.1	20,553	2.40	32.3
23	20,331	2.47	33.0	20,531	2.47	33.3
24	20,255	2.54	33.8	20,514	2.54	34.2
25	20,220	2.61	34.6	20,499	2.61	35.1
26	20,165	2.68	35.4	20,474	2.68	36.0
27	10,923			9,384		
28	0			0		
29	0			0		
30	0			0		
31	0			0		
Avg	17,679	1.72	23.3	17,680	1.72	23.4
n	31	26	26	31	26	26
SD	7,021	0.59	7.8	7,093	0.59	7.9
Min	0	0.75	10.3	0	0.75	10.3
Max	20,914	2.68	35.4	20,913	2.68	36.0

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Table E2. Daily means of animal characteristics at Site CA1B for June, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	0			0		
2	0			0		
3	0			0		
4	0			13,249		
5	13,239			21,190	0.07	1.0
6	21,152	0.07	1.0	21,176	0.06	0.8
7	21,132	0.06	0.8	21,147	0.06	0.8
8	21,115	0.06	0.8	21,118	0.06	0.8
9	21,099	0.06	0.8	21,102	0.07	0.9
10	21,088	0.07	0.9	21,094	0.08	1.1
11	21,077	0.08	1.1	21,086	0.10	1.3
12	21,070	0.10	1.3	21,083	0.12	1.6
13	21,061	0.12	1.6	21,075	0.15	2.0
14	21,049	0.15	2.0	21,068	0.18	2.5
15	21,039	0.18	2.4	21,058	0.21	2.9
16	21,033	0.21	2.9	21,050	0.25	3.5
17	21,026	0.25	3.5	21,033	0.30	4.1
18	21,016	0.30	4.1	21,023	0.34	4.7
19	21,009	0.34	4.7	21,009	0.40	5.4
20	20,999	0.40	5.4	20,997	0.45	6.2
21	20,984	0.45	6.2	20,983	0.51	7.0
22	20,964	0.51	7.0	20,966	0.57	7.8
23	20,948	0.57	7.8	20,949	0.63	8.6
24	20,927	0.63	8.6	20,932	0.70	9.5
25	20,896	0.70	9.5	20,908	0.76	10.5
26	20,874	0.76	10.4	20,875	0.83	11.4
27	20,843	0.83	11.4	20,850	0.91	12.4
28	20,814	0.91	12.4	20,826	0.98	13.4
29	20,788	0.98	13.3	20,806	1.05	14.4
30	20,771	1.05	14.4	20,789	1.13	15.4
Avg	17,934	0.39	5.4	18,648	0.42	5.8
n	30	25	25	30	26	26
SD	7,171	0.32	4.4	6,370	0.34	4.7
Min	0	0.06	0.8	0	0.06	0.8
Max	21,152	1.05	14.4	21,190	1.13	15.4

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Table E2. Daily means of animal characteristics at Site CA1B for July, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	20,749	1.13	15.4	20,762	1.21	16.5
2	20,734	1.21	16.4	20,735	1.29	17.5
3	20,708	1.29	17.5	20,714	1.37	18.6
4	20,691	1.37	18.6	20,693	1.45	19.7
5	20,668	1.45	19.7	20,673	1.53	20.8
6	20,648	1.53	20.7	20,655	1.61	21.9
7	20,624	1.61	21.8	20,629	1.70	22.9
8	20,606	1.70	22.9	20,612	1.78	24.0
9	20,586	1.78	24.0	20,595	1.86	25.1
10	20,569	1.86	25.1	20,573	1.94	26.2
11	20,546	1.94	26.1	20,552	2.02	27.2
12	20,514	2.02	27.2	20,541	2.10	28.3
13	20,485	2.10	28.2	20,516	2.18	29.3
14	20,393	2.18	29.1	20,450	2.26	30.3
15	20,358	2.26	30.1	20,431	2.33	31.3
16	20,333	2.33	31.1	20,401	2.41	32.2
17	20,265	2.41	32.0	20,358	2.48	33.1
18	20,208	2.48	32.9	20,321	2.55	34.0
19	20,173	2.55	33.8	20,274	2.62	34.9
20	20,055	2.62	34.5	20,174	2.69	35.6
21	9,148			5,846		
22	0			0		
23	0			0		
24	0			0		
25	0			0		
26	0			0		
27	0			0		
28	0			0		
29	0			0		
30	10,048			14,077		
31	19,265	0.07	0.9	19,284	0.07	0.9
Avg	14,464	1.80	24.2	14,512	1.88	25.2
n	31	21	21	31	21	21
SD	8,931	0.59	7.8	8,995	0.60	7.9
Min	0	0.07	0.9	0	0.07	0.9
Max	20,749	2.62	34.5	20,762	2.69	35.6

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Table E2. Daily means of animal characteristics at Site CA1B for August, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	19,232	0.06	0.8	19,266	0.06	0.7
2	19,210	0.06	0.7	19,242	0.06	0.7
3	19,185	0.06	0.7	19,227	0.06	0.7
4	19,144	0.06	0.8	19,215	0.07	0.8
5	19,137	0.08	1.0	19,202	0.08	1.0
6	19,124	0.09	1.2	19,191	0.10	1.2
7	19,102	0.12	1.5	19,182	0.12	1.5
8	19,089	0.14	1.8	19,172	0.15	1.9
9	19,076	0.17	2.2	19,157	0.18	2.3
10	19,071	0.21	2.6	19,141	0.22	2.7
11	19,064	0.25	3.1	19,131	0.26	3.2
12	19,054	0.29	3.6	19,113	0.30	3.8
13	19,046	0.34	4.2	19,103	0.35	4.4
14	19,038	0.39	4.9	19,095	0.40	5.0
15	19,030	0.44	5.5	19,088	0.46	5.7
16	19,021	0.50	6.2	19,082	0.51	6.4
17	19,011	0.56	7.0	19,075	0.57	7.2
18	19,000	0.62	7.8	19,067	0.64	8.0
19	18,995	0.69	8.6	19,057	0.70	8.8
20	18,991	0.76	9.4	19,047	0.77	9.6
21	18,984	0.83	10.3	19,038	0.84	10.5
22	18,980	0.90	11.2	19,033	0.91	11.4
23	18,972	0.97	12.1	19,023	0.99	12.3
24	18,961	1.05	13.0	19,015	1.06	13.2
25	18,956	1.12	14.0	19,009	1.14	14.2
26	18,948	1.20	14.9	18,998	1.22	15.2
27	18,939	1.28	15.9	18,989	1.30	16.2
28	18,928	1.36	16.9	18,978	1.38	17.1
29	18,914	1.44	17.9	18,968	1.46	18.1
30	18,898	1.52	18.9	18,955	1.54	19.1
31	18,885	1.60	19.9	18,935	1.62	20.1
Avg	19,032	0.62	7.7	19,090	0.63	7.8
n	31	31	31	31	31	31
SD	89	0.50	6.1	90	0.50	6.2
Min	18,885	0.06	0.7	18,935	0.06	0.7
Max	19,232	1.60	19.9	19,266	1.62	20.1

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Table E2. Daily means of animal characteristics at Site CA1B for September, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	18,878	1.69	20.9	18,922	1.70	21.1
2	18,871	1.77	21.9	18,911	1.79	22.1
3	18,860	1.85	22.9	18,904	1.87	23.1
4	18,852	1.93	23.9	18,892	1.95	24.1
5	18,841	2.01	24.9	18,881	2.03	25.1
6	18,824	2.09	25.8	18,862	2.11	26.1
7	18,810	2.17	26.8	18,846	2.19	27.0
8	18,784	2.25	27.7	18,824	2.27	28.0
9	18,762	2.33	28.6	18,807	2.34	28.9
10	18,735	2.40	29.5	18,781	2.42	29.8
11	18,720	2.47	30.4	18,761	2.49	30.6
12	18,697	2.55	31.2	18,709	2.56	31.4
13	18,662	2.61	32.0	18,657	2.63	32.2
14	10,109			6,996		
15	0			0		
16	0			0		
17	0			0		
18	0			0		
19	0			0		
20	0			0		
21	0			0		
22	0			0		
23	0			0		
24	0			0		
25	0			0		
26	11,259			12,056		
27	19,275	0.07	0.9	19,266	0.07	0.9
28	19,244	0.06	0.8	19,237	0.06	0.8
29	19,226	0.06	0.7	19,224	0.06	0.7
30	19,216	0.06	0.7	19,207	0.06	0.7
Avg	11,421	1.67	20.6	11,358	1.68	20.7
n	30	17	17	30	17	17
SD	8,921	0.93	11.4	8,967	0.93	11.5
Min	0	0.06	0.7	0	0.06	0.7
Max	19,275	2.61	32.0	19,266	2.63	32.2

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Table E2. Daily means of animal characteristics at Site CA1B for October, 2009.

Day	House 10			House 12		
	Inventory	Mass, kg	kg m^{-2}	Inventory	Mass, kg	kg m^{-2}
1	19,201	0.07	0.8	19,190	0.07	0.8
2	19,191	0.08	1.0	19,176	0.08	1.0
3	19,184	0.10	1.2	19,165	0.10	1.2
4	19,176	0.12	1.5	19,153	0.12	1.5
5	19,164	0.14	1.8	19,143	0.15	1.8
6	19,162	0.18	2.2	19,142	0.18	2.2
7	19,159	0.21	2.7	19,137	0.21	2.7
8	19,152	0.25	3.2	19,134	0.25	3.2
9	19,146	0.29	3.7	19,128	0.30	3.7
10	19,141	0.34	4.3	19,122	0.34	4.3
11	19,135	0.39	4.9	19,117	0.40	5.0
12	19,128	0.45	5.6	19,113	0.45	5.6
13	19,122	0.50	6.3	19,106	0.51	6.3
14	19,119	0.56	7.1	19,100	0.57	7.1
15	19,114	0.63	7.9	19,088	0.63	7.9
16	19,109	0.69	8.7	19,084	0.70	8.7
17	19,105	0.76	9.5	19,079	0.76	9.5
18	19,100	0.83	10.4	19,072	0.83	10.4
19	19,093	0.90	11.3	19,066	0.91	11.3
20	19,074	0.98	12.2	19,047	0.98	12.2
21	19,065			19,043		
22	19,049			19,035		
23	19,037			19,022		
24	19,031			19,017		
25	19,020			19,005		
26	19,010			18,994		
27	19,002			18,985		
28	18,996			18,981		
29	18,983			18,969		
30	18,977			18,961		
31	18,968			18,955		
Avg	19,094	0.42	5.3	19,075	0.43	5.3
n	31	20	20	31	20	20
SD	69	0.29	3.6	67	0.29	3.6
Min	18,968	0.07	0.8	18,955	0.07	0.8
Max	19,201	0.98	12.2	19,190	0.98	12.2

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Table E3. Environmental parameters.

Table E3. Daily means (SD) of environmental parameters at Site CA1B for September, 2007.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1			50.7	(5.5)							51.7	(5.7)				
2			50.3	(5.1)							51.0	(4.6)				
3			54.4	(5.1)							54.5	(4.6)				
4			60.0	(4.9)							60.3	(5.1)				
5			60.3	(5.9)							60.4	(6.1)				
6			58.9	(3.8)							59.6	(3.7)				
7			62.4	(3.9)							62.6	(4.0)				
8			66.0	(3.5)							64.9	(3.5)				
9			63.7	(4.0)							62.6	(4.2)				
10			63.6	(3.8)							62.6	(4.0)				
11			61.9	(2.7)							60.7	(2.8)				
12			62.1	(5.1)							61.2	(5.9)				
13			57.0	(9.0)							56.5	(9.3)				
14			60.8	(9.4)							59.9	(10.0)				
15	19.5	(4.3)	64.8	(14.5)	-17.30	(9.33)			19.5	(4.4)	63.8	(15.1)	-11.30	(10.40)		
16	19.9	(4.4)	61.6	(13.7)	-21.40	(0.85)			20.2	(4.3)	59.5	(12.4)	-6.22	(0.53)		
17	21.2	(5.5)	58.2	(14.0)	-20.10	(2.45)			21.5	(5.5)	57.2	(12.9)	-13.80	(6.66)		
18	23.9	(5.8)	53.8	(9.1)	-14.20	(9.59)			24.1	(5.8)	52.8	(8.4)	-14.70	(9.63)		
19	25.3	(2.9)	46.8	(5.2)	-10.70	(11.40)			25.3	(2.8)	47.9	(5.0)	-11.10	(11.20)		
20	24.6	(3.6)	52.5	(5.5)	-8.89	(11.70)			24.9	(3.7)	52.6	(5.9)	-9.14	(11.80)		
21	26.6	(3.0)	57.3	(9.1)	-3.69	(6.79)			27.1	(2.9)	57.8	(9.4)	-3.83	(6.89)		
22	26.4	(2.2)	65.8	(4.4)	-2.72	(5.04)			26.9	(2.1)	66.4	(4.5)	-2.83	(5.19)		
23	26.8	(2.4)	69.0	(7.5)	-3.65	(6.18)			27.2	(2.3)	69.6	(7.5)	-3.69	(6.12)		
24	26.7	(2.8)	67.1	(11.2)	-5.17	(8.26)			27.1	(2.7)	67.8	(11.1)	-5.02	(7.87)		
25	27.0	(3.2)	60.4	(15.2)	-9.07	(11.80)	2.32	(2.68)	27.4	(3.0)	61.1	(15.0)	-8.64	(11.40)	2.34	(2.73)
26	28.0	(3.4)	53.2	(17.2)	-11.50	(12.60)	4.11	(4.72)	33.7	(55.9)	54.0	(17.3)	-10.70	(12.20)	4.09	(4.84)
27	28.1	(2.6)	52.0	(14.0)	-10.50	(11.20)	3.68	(3.82)	28.5	(2.6)	53.1	(13.6)	-9.93	(11.30)	3.52	(3.83)
28	26.5	(1.8)	61.1	(7.2)	-6.23	(9.32)	1.95	(2.47)	26.8	(1.8)	61.3	(7.8)	-6.35	(8.86)	2.13	(2.60)
29	28.0	(2.8)	53.4	(11.7)	-4.74	(7.23)	2.23	(2.76)	30.4	(4.0)	50.3	(13.8)	-5.19	(6.36)	2.22	(2.55)
30	30.2	(1.6)	43.0	(6.3)	-6.79	(7.22)	3.86	(3.54)	32.8	(1.0)	39.0	(3.6)	-7.10	(7.10)	3.93	(3.44)
Mean	25.5		58.4		-9.79		3.02		26.5		58.1		-8.09		3.04	
n	16		30		16		6		16		30		16		6	
SD	3.0		6.2		5.67		0.87		3.8		6.4		3.51		0.83	
Min	19.5		43.0		-21.40		1.95		19.5		39.0		-14.70		2.13	
Max	30.2		69.0		-2.72		4.11		33.7		69.6		-2.83		4.09	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for October, 2007.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	31.9	(0.9)	48.7	(1.9)	-5.66	(6.52)	3.13	(2.96)	32.5	(0.9)	47.2	(1.5)	-6.79	(6.87)	3.34	(2.98)
2	31.5	(0.7)	45.5	(5.3)	-7.31	(7.12)	4.40	(3.73)	31.8	(0.7)	45.6	(4.6)	-8.06	(7.38)	4.61	(3.81)
3	31.1	(0.8)	42.5	(6.1)	-8.53	(7.25)	5.84	(5.04)	31.5	(0.9)	42.6	(5.4)	-9.01	(7.38)	6.08	(5.07)
4	30.9	(0.8)	46.6	(2.6)	-6.24	(6.49)	3.39	(2.96)	31.4	(0.9)	44.8	(2.9)	-7.04	(6.61)	3.63	(3.00)
5	30.1	(0.5)	49.0	(2.5)	-6.06	(6.59)	3.48	(2.95)	30.7	(0.6)	48.0	(2.9)	-6.33	(6.64)	3.66	(3.07)
6																
7																
8																
9																
10																
11																
12	26.6	(0.3)	62.6	(5.0)	-7.99	(7.72)			27.3	(0.5)	62.1	(4.2)	-10.30	(8.28)		
13	26.5	(0.5)	63.4	(5.9)	-9.84	(6.68)			26.9	(0.6)	62.9	(5.9)	-11.60	(7.56)		
14	26.3	(0.9)	61.7	(7.2)	-13.50	(9.87)	10.40	(6.75)	26.9	(0.8)	60.2	(6.7)	-15.40	(10.40)	10.30	(6.66)
15	25.9	(0.5)	61.2	(5.6)	-10.90	(6.78)	9.16	(5.60)	26.5	(0.5)	60.0	(5.1)	-14.00	(9.34)	9.20	(5.60)
16	25.6	(0.4)	58.3	(6.6)	-11.70	(6.03)	9.14	(4.49)	26.1	(0.4)	57.7	(5.8)	-13.50	(6.59)	9.22	(4.46)
17	25.4	(0.5)	58.7	(7.6)	-11.70	(5.50)	9.74	(4.94)	25.9	(0.6)	58.0	(7.2)	-13.60	(6.44)	9.62	(4.95)
18	25.4	(1.0)	53.7	(9.9)	-19.80	(11.00)	13.70	(7.66)	25.9	(0.9)	53.9	(9.3)	-20.90	(10.70)	13.60	(7.74)
19	25.6	(1.5)	58.0	(7.9)	-20.10	(9.93)	16.50	(8.22)	26.1	(1.5)	57.3	(7.6)	-22.70	(10.10)	16.10	(8.15)
20	24.6	(0.6)	55.6	(9.3)	-17.80	(8.99)	13.00	(6.09)	25.0	(0.7)	56.0	(8.4)	-21.40	(9.31)		
21	24.0	(0.9)	50.6	(9.1)	-18.70	(11.10)	13.30	(7.70)	24.5	(0.8)	51.4	(8.8)	-20.90	(10.90)	13.10	(7.70)
22	24.6	(1.9)	49.2	(11.7)	-15.10	(9.41)	17.30	(10.60)	25.1	(1.9)	50.0	(10.4)	-15.60	(9.46)	17.20	(10.20)
23	24.9	(2.2)	49.0	(8.6)	-15.00	(8.03)	20.20	(11.80)	25.1	(2.5)	50.1	(8.5)	-15.10	(7.88)	20.40	(11.70)
24	24.8	(2.5)	50.8	(7.3)	-14.00	(6.68)	20.30	(9.44)	25.0	(2.5)	51.2	(7.3)	-15.70	(6.32)	22.10	(11.20)
25	24.3	(2.3)	55.2	(5.8)	-14.80	(6.37)	20.40	(9.35)	24.4	(2.3)	55.2	(5.9)	-15.40	(5.71)	20.90	(10.20)
26	23.3	(1.7)	57.1	(6.7)	-15.60	(5.29)	20.90	(9.56)	23.6	(1.9)	55.5	(5.8)	-15.20	(5.79)	18.70	(7.89)
27	23.3	(1.9)	57.3	(7.7)	-16.60	(5.13)	26.00	(11.00)	23.8	(2.0)	57.5	(7.3)	-16.20	(4.79)	26.20	(11.00)
28	23.6	(1.9)	58.1	(5.0)	-18.40	(3.64)	31.40	(9.15)	24.2	(1.9)	57.8	(4.7)	-18.30	(3.50)	31.30	(8.75)
29	22.5	(2.1)	62.4	(5.1)	-18.00	(3.38)	30.80	(9.62)	23.2	(2.1)	60.5	(5.0)	-18.00	(3.57)	30.10	(10.10)
30	21.7	(1.3)	64.5	(4.1)	-17.50	(4.24)			22.2	(1.4)	63.8	(4.0)	-16.70	(3.70)		
31	21.4	(1.6)	66.8	(4.0)	-16.30	(3.54)	21.80	(6.75)	21.8	(1.8)	66.7	(4.2)	-15.90	(3.52)	22.00	(6.58)
Mean	25.8		55.5		-13.50		14.70		26.3		55.0		-14.50		14.80	
n	25		25		25		22		25		25		25		21	
SD	3.0		6.5		4.51		8.37		3.0		6.3		4.55		8.46	
Min	21.4		42.5		-20.10		3.13		21.8		42.6		-22.70		3.34	
Max	31.9		66.8		-5.66		31.40		32.5		66.7		-6.33		31.30	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for November, 2007.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	21.3	(1.9)	66.1	(5.7)	-16.80	(3.14)	22.40	(8.73)	21.7	(2.1)	66.2	(5.9)	-16.30	(2.87)	23.10	(8.55)
2	21.0	(3.0)	64.9	(8.0)	-19.30	(6.01)	33.30	(18.90)	22.2	(2.5)	62.8	(7.3)	-17.60	(4.36)	24.80	(9.63)
3	16.5	(4.5)	61.8	(13.7)	-8.71	(7.83)	20.40	(7.28)	16.5	(5.3)	62.0	(13.9)	-15.90	(8.67)	35.40	(23.80)
4	15.6	(5.2)	59.7	(11.8)	-16.10	(3.06)	19.90	(7.60)	15.9	(5.4)	59.0	(10.1)	-14.60	(6.11)	15.60	(0.45)
5	15.3	(4.8)	61.1	(10.0)	-7.94	(5.90)	24.80	(17.70)	15.8	(5.1)	59.1	(10.0)	-7.40	(5.34)	20.20	(6.75)
6	15.2	(3.7)	67.5	(8.9)	-12.80	(12.70)	20.10	(5.98)	15.5	(3.7)	63.9	(9.2)	-10.80	(11.00)	20.20	(7.18)
7	16.2	(5.7)	62.3	(12.3)	-7.63	(9.10)	18.10	(16.60)	16.5	(5.7)	59.4	(10.4)	-5.86	(8.46)	15.10	(11.60)
8	17.1	(3.4)	67.1	(3.8)	0.54	(0.61)	0.00	(0.00)	17.0	(3.5)	68.0	(4.4)	0.41	(0.46)	0.00	(0.00)
9	19.3	(3.1)	67.4	(3.4)	0.41	(0.32)	0.02	(0.44)	20.1	(3.2)	69.7	(3.4)	0.44	(0.31)	0.00	(0.00)
10	18.3	(2.5)	62.3	(10.4)	-13.70	(10.80)	4.38	(3.52)	18.7	(2.2)	63.9	(11.2)	-14.50	(12.40)	4.20	(3.52)
11	16.3	(2.0)	67.1	(6.3)	-24.70	(2.93)			16.4	(1.9)	68.1	(6.3)	-26.50	(1.87)		
12	16.8	(6.8)	68.9	(3.2)	-13.90	(13.80)	3.54	(3.19)	14.3	(4.8)	64.5	(5.5)	-27.10	(0.91)	7.15	(0.19)
13	22.4	(2.9)	65.1	(4.7)	-2.40	(4.97)	0.84	(1.26)	16.5	(4.3)	66.9	(4.5)	-26.80	(3.86)	7.02	(0.33)
14																
15	23.8	(3.1)	64.5	(3.8)	-2.56	(6.27)	0.80	(1.47)	23.4	(3.0)	69.6	(4.4)	-2.84	(7.01)	0.80	(1.59)
16	23.8	(1.9)	69.8	(3.7)	-2.49	(5.20)	0.83	(1.24)	23.6	(1.9)	73.6	(3.9)	-3.06	(6.53)	0.82	(1.40)
17	23.3	(2.5)	74.1	(4.4)	-2.80	(5.00)	0.92	(1.24)	23.2	(2.5)	77.8	(4.7)	-3.38	(6.32)	0.95	(1.42)
18	23.5	(2.9)	76.1	(5.1)	-3.45	(5.62)	1.06	(1.37)	23.5	(2.9)	79.3	(5.7)	-4.08	(7.02)	1.12	(1.57)
19	23.6	(2.2)	76.8	(4.9)	-4.00	(7.57)	1.16	(1.71)	23.7	(2.2)	80.3	(5.1)	-4.68	(7.46)	1.21	(1.64)
20	21.7	(1.6)	77.4	(3.6)	-3.82	(6.75)	1.22	(1.75)	22.0	(1.7)	79.6	(4.8)	-4.64	(7.66)	1.18	(1.77)
21	21.3	(2.5)	76.2	(5.7)	-4.38	(9.08)	1.35	(2.37)	21.5	(2.5)	76.2	(7.3)	-4.96	(8.57)	1.48	(2.11)
22																
23																
24	32.6	(0.7)	44.9	(1.6)	-5.18	(8.01)	1.87	(2.18)	32.8	(0.7)	44.9	(2.3)	-5.66	(9.54)	1.98	(2.47)
25	31.9	(0.9)	46.8	(2.1)	-3.61	(6.55)	1.94	(2.35)	32.1	(0.8)	48.0	(2.3)	-3.94	(7.57)	1.88	(2.58)
26	30.4	(0.8)	48.9	(3.6)	-3.31	(5.89)	2.17	(2.66)	30.6	(0.9)	50.4	(3.9)	-3.68	(6.66)	2.21	(2.75)
27	29.7	(0.7)	50.1	(3.5)	-3.64	(6.59)	2.56	(3.00)	30.1	(0.7)	51.1	(3.2)	-4.97	(7.12)	2.53	(2.86)
28	29.2	(0.7)	49.7	(4.2)	-4.24	(6.89)	2.60	(3.05)	29.5	(0.8)	50.9	(3.9)	-4.88	(6.96)	2.69	(2.85)
29	28.6	(0.6)	52.0	(4.4)	-4.85	(7.18)	2.91	(3.17)	28.7	(0.8)	52.9	(3.8)	-5.73	(7.59)	2.98	(3.08)
30	28.1	(0.6)	48.5	(4.0)	-4.89	(7.57)	3.10	(3.33)	27.9	(0.6)	50.3	(3.5)	-6.56	(8.08)	3.08	(3.25)
Mean	22.3		62.9		-7.27		7.39		22.2		63.6		-9.09		7.60	
n	27		27		27		26		27		27		27		26	
SD	5.4		9.7		6.26		9.66		5.6		10.2		7.88		9.52	
Min	15.2		44.9		-24.70		0.00		14.3		44.9		-27.10		0.00	
Max	32.6		77.4		0.54		33.30		32.8		80.3		0.44		35.40	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for December, 2007.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	27.4	(0.6)	49.4	(4.0)	-6.02	(7.30)	3.35	(3.25)	27.7	(0.6)	50.6	(3.5)	-6.25	(7.96)	3.40	(3.30)
2	27.1	(0.7)	49.9	(4.0)	-6.83	(7.08)	3.56	(3.12)	27.3	(0.6)	50.9	(3.2)	-7.11	(7.94)	3.69	(3.26)
3	27.0	(0.8)	48.7	(4.2)	-7.35	(6.53)	4.07	(3.00)	27.1	(0.6)	49.7	(3.8)	-8.46	(7.54)	4.32	(3.17)
4	26.8	(0.6)	58.3	(6.2)	-7.04	(6.25)	4.23	(2.90)	26.8	(0.6)	60.2	(6.5)	-8.55	(7.34)	4.07	(3.07)
5	26.7	(0.5)	61.9	(3.4)	-7.22	(6.98)	4.93	(3.97)	26.5	(0.5)	63.2	(3.3)	-8.83	(8.15)	4.99	(4.07)
6	26.5	(0.5)	62.8	(3.2)	-7.92	(8.10)	4.87	(4.42)	26.5	(0.5)	63.2	(2.7)	-8.01	(8.95)	4.84	(4.40)
7	26.4	(0.6)	61.1	(3.8)	-7.56	(7.37)	5.80	(4.47)	26.3	(0.5)	61.6	(3.4)	-9.08	(7.91)	5.62	(4.25)
8	26.0	(0.4)	55.8	(3.3)	-8.35	(7.00)	6.30	(4.38)	25.9	(0.6)	56.9	(2.8)	-9.48	(7.87)	6.09	(4.36)
9	25.5	(0.5)	55.6	(3.5)	-8.10	(7.25)	6.01	(4.42)	25.5	(0.5)	55.5	(3.1)	-9.38	(8.03)	6.00	(4.38)
10	25.0	(0.5)	58.1	(2.6)	-9.13	(7.00)	6.61	(4.30)	25.3	(0.5)	57.6	(2.6)	-10.50	(7.80)	6.55	(4.24)
11																
12	25.4	(0.8)	56.9	(3.1)	-8.61	(7.84)	6.17	(4.69)	25.3	(0.9)	57.8	(3.1)	-9.71	(8.75)	6.18	(4.65)
13	25.5	(0.7)	56.4	(3.4)	-9.05	(6.96)	6.67	(4.36)	25.5	(0.8)	57.6	(2.8)	-10.50	(8.01)	5.89	(4.07)
14	25.5	(0.6)	56.8	(3.5)	-9.64	(6.44)	6.92	(4.04)	25.4	(0.8)	56.8	(2.9)	-11.00	(7.41)	4.90	(2.89)
15	25.3	(0.9)	58.9	(3.1)	-10.20	(6.34)	7.34	(3.91)	25.3	(0.7)	58.2	(2.9)	-12.00	(7.31)	5.27	(2.87)
16	25.0	(0.8)	59.6	(3.1)	-11.00	(5.78)	7.97	(3.67)	25.1	(0.7)	58.9	(2.9)	-12.50	(6.48)	5.63	(2.61)
17	25.2	(0.5)	63.6	(2.2)	-11.30	(6.63)	7.53	(3.88)	25.0	(0.5)	63.5	(2.8)	-12.50	(7.16)	5.36	(2.77)
18	25.1	(0.4)	66.1	(2.3)	-11.40	(7.10)	8.50	(4.95)	25.1	(0.6)	66.7	(2.5)	-12.00	(7.54)	8.06	(5.05)
19	24.7	(0.7)	63.6	(3.1)	-16.70	(9.66)	9.57	(4.65)	24.9	(0.7)	64.3	(2.6)	-16.30	(9.17)	9.94	(4.85)
20	23.9	(0.7)	63.7	(5.1)	-19.30	(9.74)	9.97	(4.44)	23.9	(0.8)	63.9	(4.1)	-19.00	(9.81)	9.93	(4.60)
21	22.9	(0.7)	59.2	(2.4)	-20.90	(11.40)	9.44	(4.53)	22.8	(0.7)	59.7	(2.2)	-19.90	(11.60)	9.63	(4.99)
22	22.6	(0.8)	60.6	(3.4)	-23.10	(12.80)	9.57	(4.63)	22.4	(1.0)	60.7	(3.1)	-21.70	(12.70)	10.00	(5.19)
23	22.3	(0.9)	64.2	(3.4)	-23.50	(13.30)	9.66	(4.77)	22.4	(0.9)	63.2	(3.4)	-22.00	(12.80)	10.10	(5.12)
24	22.2	(1.0)	65.0	(4.1)	-25.40	(12.30)	10.50	(4.51)	22.2	(1.1)	64.1	(3.7)	-24.10	(11.70)	10.00	(4.38)
25	21.5	(0.8)	64.0	(3.6)	-25.40	(11.30)	10.30	(3.87)	21.5	(0.9)	63.2	(3.8)	-23.30	(11.40)	10.60	(4.69)
26	21.4	(0.9)	61.6	(6.1)	-28.00	(10.40)	11.40	(3.67)	21.0	(1.1)	61.8	(5.7)	-26.90	(10.20)	11.00	(3.80)
27	20.8	(0.6)	61.4	(3.8)	-27.40	(11.10)	11.10	(3.74)	20.3	(0.8)	62.3	(3.5)	-26.00	(10.50)	11.70	(4.03)
28	20.8	(0.3)	68.8	(1.7)	-27.80	(10.30)	10.80	(3.38)	20.6	(0.5)	69.1	(2.0)	-25.80	(9.32)	11.60	(3.72)
29	21.7	(0.9)	68.4	(2.5)	-29.80	(8.08)	12.00	(3.26)	21.7	(0.9)	68.5	(2.4)	-28.00	(7.19)	12.40	(2.90)
30	21.8	(0.7)	69.1	(1.6)	-31.90	(4.75)	12.20	(1.49)	21.8	(0.7)	69.7	(1.6)	-29.50	(4.20)	12.60	(1.43)
31	21.2	(0.9)	65.2	(2.3)	-31.10	(5.73)	11.90	(1.82)	19.2	(3.5)	67.9	(11.0)	-15.70	(14.90)	17.50	(22.00)
Mean	24.3		60.5		-15.90		7.97		24.2		60.9		-15.50		7.93	
n	30		30		30		30		30		30		30		30	
SD	2.1		5.2		8.89		2.67		2.3		5.1		7.22		3.35	
Min	20.8		48.7		-31.90		3.35		19.2		49.7		-29.50		3.40	
Max	27.4		69.1		-6.02		12.20		27.7		69.7		-6.25		17.50	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for January, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	18.7	(5.0)	69.5	(3.6)	-29.10	(9.21)	15.00	(11.70)	12.9	(6.3)			-14.40	(10.50)		
2	8.3	(3.7)	78.8	(5.0)	-33.10	(36.20)	12.70	(12.60)	9.8	(5.3)			-6.62	(10.00)		
3	18.5	(8.1)	75.4	(2.4)	-22.20	(32.20)	5.39	(5.71)	17.0	(5.1)			-2.80	(7.69)		
4	23.1	(1.3)	72.5	(3.9)	-5.18	(8.49)	1.03	(1.90)	22.0	(1.1)	72.3	(2.2)	-4.42	(9.25)	1.06	(2.00)
5	21.4	(0.9)	77.1	(1.9)	-2.30	(6.18)	0.79	(1.57)	21.2	(0.5)	75.4	(1.0)	-2.72	(7.10)	0.80	(1.59)
6	21.3	(1.1)	78.1	(2.2)	-2.24	(6.01)	0.80	(1.39)	21.4	(1.2)	74.5	(2.0)	-2.37	(6.38)	0.82	(1.40)
7	20.9	(1.5)	79.3	(2.8)	-2.31	(4.94)	0.84	(1.21)	21.3	(1.5)	73.0	(2.9)	-2.90	(5.46)	0.84	(1.20)
8	19.5	(0.4)	83.5	(1.0)	-2.40	(4.36)	0.84	(1.08)	19.9	(0.2)	78.1	(1.5)	-2.71	(4.96)	0.86	(1.09)
9	20.8	(0.8)	85.7	(0.8)	-2.59	(5.40)	0.82	(1.24)	21.0	(0.8)	84.0	(1.3)	-3.04	(6.07)	0.82	(1.23)
10	21.4	(0.5)	87.5	(0.7)	-2.78	(5.65)	0.94	(1.33)	21.6	(0.4)			-3.24	(6.35)		
11	21.4	(0.6)	89.2	(0.6)	-3.22	(5.54)	1.06	(1.41)	21.8	(0.6)	88.1	(0.6)	-4.01	(6.68)	1.07	(1.42)
12	21.8	(1.2)	87.4	(2.9)	-3.74	(7.41)	1.24	(1.95)	22.6	(1.3)	87.0	(2.6)	-4.82	(9.18)	1.19	(1.83)
13	22.2	(1.3)	86.6	(2.7)	-3.96	(8.64)	1.42	(2.39)	22.6	(1.3)	86.3	(2.9)	-4.98	(10.70)	1.38	(2.34)
14	26.0	(5.6)	74.8	(13.0)	-5.34	(8.53)	1.91	(2.41)	25.6	(5.0)	76.3	(10.8)	-6.39	(10.10)	1.84	(2.34)
15	31.5	(0.6)	59.9	(1.6)	-4.70	(8.56)	1.76	(2.25)	31.1	(0.9)	61.6	(3.6)	-5.58	(9.62)	1.68	(2.14)
16	31.9	(0.5)	55.1	(1.9)	-5.20	(9.41)	1.96	(2.59)	32.0	(0.4)	55.9	(1.3)	-5.45	(10.60)	1.74	(2.53)
17	31.3	(0.9)	50.9	(2.9)	-6.62	(12.00)	2.24	(2.98)	31.3	(0.7)	50.6	(4.6)	-6.28	(13.30)	2.09	(3.34)
18	30.4	(0.8)	55.0	(3.1)	-7.55	(12.50)	2.41	(3.12)	30.4	(0.7)	50.7	(2.7)	-7.20	(12.80)	2.49	(3.46)
19	29.3	(0.8)	57.8	(3.4)	-8.93	(12.90)	2.72	(3.10)	29.5	(0.7)	52.4	(2.6)	-8.61	(12.30)	2.91	(3.32)
20	28.8	(0.6)	59.4	(2.2)	-8.14	(12.30)	2.47	(3.06)	29.1	(0.6)	53.6	(2.2)	-8.10	(11.80)	2.65	(3.30)
21	28.4	(0.5)	62.3	(2.6)	-8.37	(13.80)	2.48	(3.14)	28.7	(0.6)	55.8	(2.6)	-8.05	(13.10)	2.68	(3.44)
22	28.1	(0.5)	62.6	(2.0)	-10.40	(15.30)	2.87	(3.55)	28.4	(0.7)	56.9	(2.7)	-10.30	(14.60)	2.97	(3.74)
23	27.8	(0.4)	63.6	(2.4)	-11.90	(16.40)	3.08	(3.77)	27.9	(0.5)	57.2	(2.6)	-11.30	(15.70)	3.34	(4.09)
24	28.0	(0.5)	61.6	(2.5)	-13.00	(17.70)	3.13	(3.83)	28.2	(0.5)	54.9	(2.8)	-12.30	(17.10)	3.37	(4.12)
25	28.2	(0.4)	58.6	(2.1)	-12.30	(15.00)	3.76	(3.73)	28.1	(0.4)	55.1	(2.2)	-13.70	(16.10)	3.83	(3.78)
26	28.2	(0.4)	55.8	(2.5)	-10.70	(11.30)	4.17	(3.70)	28.4	(0.4)	53.8	(2.3)	-14.10	(14.60)	4.11	(3.62)
27	28.1	(0.4)	61.1	(2.3)	-10.50	(11.60)	4.21	(3.79)	28.2	(0.5)	58.8	(2.0)	-14.00	(14.80)	4.15	(3.71)
28	27.5	(0.5)	57.8	(3.2)	-14.70	(16.80)	4.72	(4.74)	27.6	(0.5)	56.3	(2.6)	-14.70	(17.00)	4.54	(4.82)
29	27.1	(0.5)	59.0	(2.9)	-14.90	(19.30)	4.61	(5.30)	27.5	(0.5)	57.4	(2.9)	-13.10	(18.30)	4.57	(5.58)
30	26.9	(0.6)	58.6	(2.9)	-16.50	(19.50)	5.03	(5.22)	26.8	(0.6)	58.1	(2.4)	-15.50	(18.80)	5.12	(5.55)
31	26.7	(0.6)	62.0	(2.7)	-16.00	(20.10)	4.79	(5.26)	26.5	(0.5)	60.3	(2.4)	-15.00	(19.00)	5.12	(5.62)
Mean	24.9		68.6		-9.70		3.27		24.9		64.6		-8.02		2.52	
n	31		31		31		31		31		27		31		27	
SD	5.0		11.7		7.56		3.14		5.3		12.2		4.45		1.42	
Min	8.3		50.9		-33.10		0.79		9.8		50.6		-15.50		0.80	
Max	31.9		89.2		-2.24		15.00		32.0		88.1		-2.37		5.12	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for February, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	26.2	(0.6)	61.7	(2.9)	-16.70	(18.70)	5.66	(5.44)	25.9	(0.5)	60.6	(2.2)	-16.30	(18.20)	5.90	(5.78)
2																
3																
4																
5	25.5	(0.5)	56.3	(3.9)	-21.30	(15.60)	7.73	(4.86)	24.9	(0.7)	56.9	(3.9)	-20.10	(14.70)	8.25	(5.27)
6	25.1	(0.5)	58.4	(2.2)	-23.20	(14.30)	9.06	(4.89)	24.6	(0.6)	59.7	(2.5)	-21.70	(13.70)	9.28	(5.31)
7	24.8	(0.5)	58.2	(2.8)	-23.50	(13.40)	9.51	(4.76)	24.7	(0.7)	59.8	(3.2)	-21.20	(13.40)	9.55	(5.44)
8	24.5	(0.4)	59.6	(2.8)	-23.30	(12.70)	9.47	(4.48)	24.3	(0.6)	60.4	(3.0)	-21.80	(12.60)	9.78	(4.93)
9	24.3	(0.4)	61.5	(3.3)	-24.40	(12.50)	10.90	(5.49)	24.5	(0.8)	61.2	(3.5)	-22.70	(11.80)	10.80	(5.19)
10	24.3	(0.8)	62.0	(3.9)	-26.20	(12.50)	11.80	(5.69)	24.4	(1.1)	62.3	(4.2)	-23.80	(11.00)	12.00	(5.59)
11	23.9	(0.8)	62.0	(3.6)	-27.90	(12.80)	12.40	(5.80)	23.7	(1.1)	61.9	(4.4)	-25.70	(10.80)	13.00	(5.63)
12	23.0	(1.1)	62.9	(4.5)	-25.50	(9.67)	14.90	(6.98)	22.9	(1.2)	63.2	(4.6)	-23.90	(7.93)	15.30	(6.70)
13	21.9	(0.4)	58.1	(9.5)	-22.50	(7.35)	13.90	(4.67)	22.1	(0.9)	58.5	(8.8)	-22.00	(7.94)	13.00	(4.58)
14	21.2	(0.5)	48.3	(4.1)	-13.50	(8.41)	13.70	(5.15)	21.3	(0.9)	49.9	(3.9)	-13.90	(6.99)	12.80	(5.31)
15	20.5	(0.6)	54.6	(5.7)	-21.40	(8.13)	14.20	(5.43)	20.7	(0.7)	55.4	(6.1)	-20.10	(8.30)	13.80	(5.73)
16	21.0	(1.2)	56.2	(7.2)	-24.90	(8.19)	15.80	(6.00)	21.1	(1.3)	57.2	(7.4)	-23.30	(7.66)	16.10	(6.46)
17	21.1	(1.3)	59.9	(6.8)	-25.20	(7.98)	16.10	(5.96)	21.1	(1.3)	60.1	(6.8)	-23.60	(7.19)	16.30	(6.21)
18	21.3	(1.1)	66.3	(5.0)	-25.30	(7.17)	15.80	(5.50)	21.4	(1.2)	65.1	(4.7)	-23.90	(6.20)	15.90	(5.61)
19	20.8	(0.4)	70.1	(2.8)	-25.10	(4.68)	14.60	(3.24)	20.9	(0.5)	69.4	(3.0)	-23.20	(4.05)	14.50	(2.91)
20	20.7	(1.3)	68.4	(6.0)	-27.60	(3.22)	16.50	(4.04)	20.9	(1.1)	68.6	(5.6)	-25.30	(2.91)	16.50	(3.57)
21	13.4	(2.1)	77.5	(4.4)	-14.20	(9.14)	27.60	(20.20)	19.4	(2.5)	71.6	(3.1)	-24.60	(6.70)	18.40	(15.60)
22	12.0	(1.9)	80.1	(2.9)	-8.65	(6.06)	23.10	(6.90)	13.5	(3.9)	84.3	(4.2)	-5.30	(6.67)	20.50	(19.80)
23	9.7	(2.4)	79.4	(4.5)	-7.80	(4.80)	19.70	(4.26)	9.8	(2.2)	81.4	(5.2)	-11.10	(6.68)	21.60	(6.96)
24	12.3	(1.5)	81.0	(3.6)	-7.05	(1.09)	16.50	(0.11)	12.2	(1.5)	81.7	(3.3)	-11.10	(3.35)	19.60	(3.42)
25	12.6	(3.9)	76.6	(7.7)	-25.40	(14.10)	12.80	(2.99)	12.7	(4.0)	76.2	(8.5)	-24.00	(12.30)	13.30	(2.94)
26	17.2	(8.8)	79.8	(2.0)	-16.30	(17.90)	5.32	(5.66)	16.9	(8.4)	79.1	(2.8)	-14.50	(15.20)	5.91	(6.16)
27	25.2	(2.5)	75.6	(5.2)	-3.25	(8.85)	0.94	(1.77)	24.3	(2.7)	78.6	(5.6)	-3.43	(8.74)	0.96	(1.78)
28	25.2	(2.8)	69.6	(7.6)	-5.77	(11.40)	1.35	(2.04)	24.5	(3.0)	72.1	(8.5)	-6.05	(11.20)	1.43	(2.07)
29	25.4	(2.9)	68.6	(7.6)	-7.49	(11.40)	1.62	(1.98)	25.3	(2.9)	68.7	(8.4)	-8.58	(12.70)	1.75	(2.22)
Mean	20.9		65.9		-19.00		12.40		21.1		66.3		-18.50		12.20	
n	26		26		26		26		26		26		26		26	
SD	4.8		9.1		7.71		6.23		4.4		9.1		6.77		5.57	
Min	9.7		48.3		-27.90		0.94		9.8		49.9		-25.70		0.96	
Max	26.2		81.0		-3.25		27.60		25.9		84.3		-3.43		21.60	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for March, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	24.0	(1.1)	70.4	(4.5)	-5.32	(6.99)	1.24	(1.52)	26.1	(0.5)	64.7	(4.0)	-6.57	(11.40)	1.04	(2.03)
2	24.3	(1.7)	65.0	(5.7)	-8.74	(12.70)	1.79	(2.35)	26.2	(0.8)	59.4	(3.7)	-9.11	(14.40)	1.71	(2.60)
3	24.4	(2.0)	62.0	(8.2)	-12.60	(15.00)	2.53	(2.61)	25.9	(0.9)	57.8	(6.2)	-13.30	(15.50)	2.60	(2.64)
4	24.5	(1.9)	65.5	(7.6)	-8.41	(11.00)	2.12	(2.34)	25.8	(1.0)	61.1	(6.0)	-9.50	(11.70)	2.26	(2.39)
5	26.1	(3.0)	63.5	(8.5)	-6.58	(9.62)	1.83	(2.16)	28.4	(3.1)	56.1	(9.0)	-7.81	(10.80)	2.04	(2.34)
6	28.7	(0.3)	59.4	(3.1)	-8.44	(11.50)	2.18	(2.46)	31.3	(0.5)	52.1	(2.9)	-9.04	(11.70)	2.37	(2.51)
7	30.1	(1.3)	56.2	(4.5)	-10.20	(12.90)	2.50	(2.63)	31.0	(0.5)	52.5	(3.0)	-10.10	(12.90)	2.52	(2.72)
8	30.8	(0.8)	50.7	(4.2)	-9.90	(13.30)	2.79	(3.10)	31.0	(0.6)	47.9	(5.3)	-10.30	(14.00)	2.92	(3.55)
9	30.4	(0.6)	50.1	(2.6)	-10.40	(13.20)	3.16	(3.26)	30.6	(0.6)	46.5	(2.3)	-10.20	(13.80)	3.29	(3.69)
10	30.0	(0.6)	52.7	(4.6)	-14.70	(14.70)	4.18	(3.59)	30.4	(0.6)	48.8	(4.7)	-14.20	(14.50)	4.43	(4.02)
11	29.5	(0.6)	57.6	(2.6)	-11.40	(14.00)	3.38	(3.53)	29.9	(0.7)	52.6	(2.1)	-10.90	(13.30)	3.55	(3.79)
12	29.2	(0.7)	56.7	(3.0)	-13.10	(15.50)	3.62	(3.79)	29.3	(0.5)	52.2	(2.5)	-12.20	(14.40)	3.83	(4.10)
13	28.8	(0.5)	59.3	(4.3)	-14.10	(14.30)	3.95	(3.53)	28.9	(0.6)	56.5	(3.5)	-13.30	(13.80)	4.07	(3.80)
14	28.5	(0.6)	55.3	(3.1)	-13.90	(14.80)	3.80	(3.51)	28.5	(0.5)	51.5	(2.5)	-12.50	(14.00)	3.91	(3.86)
15	28.2	(0.7)	53.9	(2.9)	-14.10	(15.10)	3.91	(3.61)	28.2	(0.5)	50.3	(2.0)	-13.10	(14.60)	4.10	(4.05)
16	28.0	(0.6)	48.8	(3.4)	-12.80	(13.30)	4.18	(3.95)	28.0	(0.7)	45.7	(2.8)	-15.70	(13.50)	4.32	(4.06)
17	28.0	(0.5)	49.3	(5.2)	-17.20	(14.70)	4.96	(3.56)	27.9	(0.5)	46.1	(4.2)	-16.80	(14.20)	5.18	(3.81)
18	28.1	(0.5)	54.5	(5.4)	-22.40	(15.30)	6.61	(4.45)	27.9	(0.6)	52.2	(4.1)	-20.90	(14.80)	6.81	(4.59)
19	28.1	(0.5)	56.7	(5.9)	-18.30	(15.90)	6.25	(5.20)	27.9	(0.5)	55.1	(3.8)	-17.30	(14.50)	6.37	(4.85)
20	28.2	(0.6)	54.3	(5.9)	-14.10	(16.50)	5.61	(5.87)	27.9	(0.5)	53.2	(4.2)	-13.50	(13.50)	5.63	(4.93)
21	28.0	(0.6)	52.9	(4.6)	-14.60	(16.60)	5.68	(5.86)	27.6	(0.6)	52.4	(3.3)	-14.30	(13.50)	5.81	(4.91)
22	27.7	(0.9)	51.2	(6.8)	-15.30	(14.60)	7.15	(5.95)	27.5	(0.8)	51.3	(4.9)	-14.70	(12.40)	7.37	(5.47)
23	27.7	(1.0)	49.8	(7.8)	-17.00	(13.60)	9.25	(6.99)	27.4	(1.1)	50.2	(6.6)	-16.20	(12.70)	9.21	(6.86)
24																
25	26.8	(0.6)	56.5	(6.1)	-16.50	(13.20)	8.84	(6.53)	26.2	(0.8)	57.4	(5.4)	-16.20	(12.80)	8.81	(6.49)
26	26.1	(0.7)	54.4	(6.2)	-17.00	(12.70)	8.41	(5.71)	25.5	(0.8)	55.8	(5.0)	-17.10	(12.50)	8.36	(5.62)
27																
28	25.5	(0.6)	52.1	(8.4)	-19.60	(12.00)	10.20	(5.86)	25.2	(0.8)	53.9	(7.8)	-18.90	(11.10)	10.40	(5.77)
29	25.0	(0.6)	60.2	(4.3)	-21.20	(10.20)	10.30	(4.40)	24.7	(0.7)	62.3	(3.7)	-20.50	(9.77)	10.40	(4.51)
30	24.2	(0.6)	51.2	(6.0)	-21.60	(10.70)	11.20	(5.37)	23.9	(0.8)	53.5	(5.5)	-20.90	(10.40)	11.30	(5.41)
31	23.6	(0.7)	51.2	(6.6)	-19.70	(10.60)	12.60	(6.73)	23.4	(0.8)	52.6	(6.1)	-19.00	(10.40)	12.90	(7.10)
Mean	27.3		55.9		-14.10		5.32		27.7		53.5		-13.90		5.43	
n	29		29		29		29		29		29		29		29	
SD	2.1		5.4		4.45		3.13		2.1		4.6		3.95		3.14	
Min	23.6		48.8		-22.40		1.24		23.4		45.7		-20.90		1.04	
Max	30.8		70.4		-5.32		12.60		31.3		64.7		-6.57		12.90	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for April, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	23.9	(1.2)	48.7	(9.1)	-20.60	(10.50)	15.10	(8.00)	23.7	(1.5)	50.4	(8.8)	-19.80	(10.30)	15.20	(8.50)
2	23.3	(0.8)	53.4	(6.2)	-21.80	(8.83)	15.60	(6.62)	23.0	(1.1)	54.9	(6.3)	-20.90	(8.66)	15.90	(7.02)
3	23.5	(1.9)	53.1	(8.5)	-18.50	(7.57)	19.00	(8.53)	23.4	(2.2)	54.6	(8.2)	-17.40	(7.27)	19.00	(8.66)
4	22.8	(2.0)	49.9	(9.1)	-14.80	(3.87)	20.20	(8.28)	22.9	(2.2)	52.5	(9.3)	-14.70	(4.43)	19.90	(8.13)
5	21.7	(1.5)	52.7	(5.6)	-14.10	(2.98)	19.70	(7.42)	22.1	(1.7)	55.8	(6.8)	-14.20	(2.88)	19.50	(6.93)
6																
7																
8																
9																
10																
11																
12	23.5	(2.9)	57.0	(6.9)	-24.00	(11.40)	36.90	(16.30)	23.7	(3.0)	56.6	(7.1)	-24.70	(12.10)	38.40	(17.70)
13	23.8	(2.7)	53.4	(4.5)	-26.20	(11.80)	40.20	(15.30)	23.9	(2.8)	53.1	(5.1)	-26.00	(12.50)	41.20	(16.60)
14	21.6	(2.3)	51.7	(8.7)	-15.50	(2.97)	25.60	(8.22)	20.9	(3.7)	52.3	(9.4)	-16.50	(3.63)	28.20	(11.40)
15	15.8	(4.3)	57.9	(8.2)	-5.65	(6.91)	15.10	(16.90)	13.8	(5.2)	58.2	(11.3)	-6.37	(7.83)	16.90	(20.30)
16	16.4	(4.6)	52.0	(15.4)	-2.46	(3.10)	15.10	(14.40)	15.8	(4.6)			-2.44	(5.40)		
17	19.0	(5.3)	51.4	(15.4)	-13.40	(12.60)	17.30	(11.70)	18.9	(4.9)			-13.70	(13.50)		
18	19.9	(6.5)	50.2	(12.2)	-17.30	(13.00)	20.20	(19.60)	19.2	(6.5)			-13.70	(9.10)		
19	14.4	(5.1)	49.6	(11.5)	-20.10	(12.70)	7.11	(2.02)	14.0	(5.3)			-21.10	(8.31)		
20	12.5	(5.3)	47.2	(11.1)	-16.40	(14.90)	4.41	(3.25)	13.7	(6.4)	49.4	(7.3)	-8.89	(11.40)	1.65	(2.67)
21	16.3	(5.3)	45.6	(10.2)	-15.30	(13.60)	5.71	(4.69)	16.1	(4.9)	48.8	(8.5)	-14.20	(15.70)	3.62	(3.25)
22	20.5	(4.2)	52.4	(5.6)	-6.07	(9.66)	2.54	(3.85)	21.1	(4.2)	54.7	(5.7)	-6.67	(9.89)	2.06	(2.89)
23	22.2	(2.8)	59.4	(7.4)	-3.43	(6.47)	1.01	(1.68)	22.5	(2.9)	61.0	(7.5)	-4.10	(7.20)	0.97	(1.63)
24	21.3	(3.6)	60.2	(8.9)	-3.53	(4.71)	1.03	(1.32)	21.3	(3.6)	61.8	(10.0)	-4.86	(5.75)	1.00	(1.29)
25	23.9	(4.2)	56.9	(12.4)	-6.72	(11.10)	1.70	(2.39)	23.9	(4.2)	57.8	(14.4)	-8.30	(12.30)	1.80	(2.39)
26	26.3	(4.1)	53.9	(13.0)	-13.00	(14.60)	3.14	(3.20)	26.3	(4.2)	53.9	(13.8)	-14.80	(16.10)	3.57	(3.83)
27	28.2	(4.4)	49.7	(13.5)	-18.20	(16.10)	5.07	(4.51)	28.2	(4.6)	49.8	(13.9)	-19.40	(16.30)	5.32	(4.55)
28	27.1	(3.2)	50.4	(10.9)	-14.50	(13.30)	4.39	(3.99)	27.1	(3.5)	50.1	(11.0)	-15.80	(13.80)	4.37	(3.77)
29	24.4	(2.7)	56.8	(8.7)	-8.18	(9.51)	2.21	(2.63)	24.4	(2.9)	55.4	(9.5)	-9.66	(10.10)	2.26	(2.50)
30	27.1	(5.2)	52.1	(13.4)	-7.11	(8.49)	2.03	(2.47)	26.7	(5.3)	49.9	(14.1)	-8.97	(9.12)	1.92	(2.36)
Mean	21.6		52.7		-13.60		12.50		21.5		54.1		-13.60		12.10	
n	24		24		24		24		24		20		24		20	
SD	4.1		3.7		6.68		10.90		4.2		3.7		6.35		12.30	
Min	12.5		45.6		-26.20		1.01		13.7		48.8		-26.00		0.97	
Max	28.2		60.2		-2.46		40.20		28.2		61.8		-2.44		41.20	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for May, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	30.9	(0.9)	39.9	(5.9)	-5.16	(7.94)	3.00	(3.83)	30.8	(0.7)	38.5	(5.6)	-5.55	(8.04)	3.16	(4.06)
2	30.4	(0.6)	40.4	(6.1)	-5.92	(8.04)	4.35	(4.85)	30.4	(0.5)	39.6	(5.8)	-5.67	(7.73)	4.35	(4.93)
3	29.8	(0.7)	48.4	(5.6)	-5.57	(7.39)	4.12	(4.42)	30.1	(0.6)	46.8	(4.4)	-5.27	(7.03)	4.18	(4.55)
4	29.3	(0.6)	49.7	(6.9)	-7.11	(7.52)	5.93	(5.89)	29.6	(0.5)	48.2	(4.9)	-6.86	(7.17)	5.88	(5.83)
5	29.1	(0.6)	49.2	(7.1)	-8.06	(7.74)	7.22	(6.42)	29.3	(0.6)	48.7	(5.6)	-7.80	(7.59)	7.25	(6.59)
6	29.0	(0.6)	51.9	(6.1)	-8.77	(8.43)	7.67	(7.22)	29.2	(0.6)	51.9	(4.9)	-8.18	(7.93)	7.36	(6.72)
7	28.3	(0.7)	52.3	(4.6)	-7.19	(7.09)	5.12	(4.36)	28.3	(0.5)	51.7	(3.4)	-7.04	(6.73)	5.36	(4.63)
8	28.2	(0.7)	47.5	(7.6)	-11.00	(8.20)	10.10	(8.34)	28.4	(0.8)	47.2	(6.4)	-10.60	(7.65)	10.00	(7.86)
9	28.0	(0.5)	48.1	(6.0)	-9.14	(7.26)	7.67	(5.83)	28.1	(0.7)	47.7	(4.7)	-8.90	(6.85)	7.52	(5.39)
10	28.5	(1.0)	46.1	(7.8)	-12.70	(9.27)	11.80	(9.60)	28.6	(1.2)	45.9	(6.5)	-11.90	(8.65)	11.70	(9.48)
11	28.2	(0.6)	49.5	(6.3)	-11.30	(8.67)	10.40	(8.89)	28.2	(0.8)	50.1	(5.6)	-10.70	(8.35)	10.20	(8.55)
12	28.0	(0.5)	45.3	(8.3)	-9.91	(6.53)	7.47	(5.00)	28.1	(0.8)	46.6	(6.2)	-9.66	(6.35)	7.20	(4.84)
13	28.7	(1.3)	40.5	(11.5)	-11.50	(7.70)	16.20	(13.80)	28.6	(1.6)	41.3	(10.5)	-11.90	(7.95)	16.60	(14.20)
14	29.0	(1.3)	47.3	(5.4)	-12.30	(7.71)	20.20	(15.10)	28.9	(1.7)	47.7	(5.3)	-13.00	(7.89)	20.80	(15.70)
15	29.2	(1.5)	53.7	(5.0)	-14.70	(7.49)	23.90	(15.70)	29.4	(2.1)	53.8	(6.2)	-14.70	(7.47)	23.70	(15.80)
16																
17																
18																
19																
20	27.0	(1.7)	50.1	(7.8)	-15.20	(7.69)	22.40	(15.50)	27.0	(2.0)	51.3	(8.0)	-14.70	(7.39)	22.30	(15.30)
21	25.6	(1.3)	44.9	(9.0)	-14.60	(7.46)	18.30	(11.10)	25.6	(1.7)	46.8	(8.8)	-14.70	(7.17)	18.70	(11.30)
22	25.4	(1.2)	40.0	(6.6)	-15.10	(7.14)	19.80	(10.50)	25.4	(1.6)	41.2	(5.9)	-14.90	(6.19)	20.30	(11.10)
23	25.1	(1.3)	48.1	(6.7)	-15.40	(6.52)	19.80	(10.20)	25.0	(1.6)	49.2	(6.7)	-14.60	(6.67)	20.00	(10.20)
24	23.7	(0.5)	62.1	(3.4)	-13.20	(4.78)	12.60	(3.88)	23.3	(0.6)	63.7	(3.4)	-11.70	(4.40)	12.90	(4.00)
25	23.7	(0.7)	60.1	(6.7)	-16.30	(5.59)	17.10	(7.44)	23.5	(1.0)	61.8	(6.9)	-14.60	(5.17)	17.20	(7.44)
26	24.0	(1.4)	54.8	(6.8)	-15.10	(5.38)	21.60	(10.30)	23.9	(1.8)	56.4	(7.1)	-14.30	(5.54)	21.50	(10.20)
27	23.4	(1.3)	56.6	(6.5)	-16.20	(5.14)	22.10	(10.00)	23.5	(1.6)	58.5	(7.1)	-15.50	(5.65)	22.20	(10.20)
28	23.4	(1.6)	54.5	(7.3)	-16.70	(5.14)	24.40	(11.60)	23.6	(1.9)	56.3	(7.9)	-15.50	(5.27)	24.50	(11.70)
29	23.3	(2.1)	53.8	(8.9)	-19.70	(8.09)	28.30	(14.40)	23.6	(2.2)	55.1	(9.5)	-18.00	(7.02)	29.40	(15.60)
30	23.6	(2.2)	55.4	(8.3)	-22.90	(8.40)	32.10	(14.70)	23.8	(2.5)	56.6	(8.9)	-20.40	(7.03)	33.60	(16.20)
31	23.0	(2.1)	57.9	(7.1)	-21.90	(8.24)	31.10	(14.30)	23.3	(2.2)	58.6	(7.4)	-19.80	(6.98)	32.40	(15.60)
Mean	26.9		49.9		-12.70		15.40		26.9		50.4		-12.10		15.60	
n	27		27		27		27		27		27		27		27	
SD	2.5		5.9		4.68		8.55		2.6		6.4		4.17		8.85	
Min	23.0		39.9		-22.90		3.00		23.3		38.5		-20.40		3.16	
Max	30.9		62.1		-5.16		32.10		30.8		63.7		-5.27		33.60	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for June, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	23.2	(2.4)	55.4	(7.6)	-25.90	(12.10)	34.40	(17.50)	23.4	(2.3)	56.6	(7.6)	-24.00	(12.20)	35.30	(18.20)
2	23.1	(2.6)	55.5	(6.1)	-26.40	(12.70)	35.30	(17.60)	23.2	(2.4)	57.0	(6.2)	-24.50	(12.70)	36.20	(18.40)
3	23.3	(2.2)	58.2	(2.9)	-26.90	(13.00)	38.00	(16.10)	23.6	(2.3)	58.7	(3.0)	-25.20	(12.90)	39.10	(16.70)
4	23.1	(2.2)	48.9	(12.1)	-26.20	(12.30)	36.40	(15.80)	23.5	(2.3)	50.1	(11.5)	-24.00	(11.90)	37.20	(16.70)
5	23.5	(2.5)	53.5	(8.4)	-28.90	(13.60)	39.10	(16.20)	23.5	(2.5)	55.2	(7.7)	-27.30	(13.80)	40.10	(16.60)
6	22.1	(3.3)	49.7	(9.6)	-15.80	(14.10)	28.20	(17.50)	22.6	(2.9)	52.1	(10.0)	-26.30	(12.90)	42.90	(19.30)
7	20.3	(5.9)	54.3	(14.9)	-1.67	(3.16)	5.48	(10.80)	20.1	(6.2)	53.8	(15.9)	-6.51	(11.10)	17.60	(30.30)
8	26.1	(5.7)	49.7	(10.8)	0.58	(0.35)	0.00	(0.00)	26.3	(5.7)	49.7	(11.2)	0.52	(0.40)	0.00	(0.00)
9	28.6	(5.4)	47.0	(9.6)	0.63	(0.35)	0.00	(0.00)	28.5	(5.4)	46.8	(10.1)	0.55	(0.39)	0.00	(0.00)
10	25.1	(3.5)	36.7	(14.4)	-1.71	(2.71)	8.73	(8.28)	24.7	(3.7)	37.3	(14.5)	-13.70	(11.90)	43.60	(33.20)
11	23.7	(5.8)	34.1	(8.2)	-14.50	(13.90)	13.00	(5.16)	23.7	(6.0)	34.0	(9.2)	-25.80	(12.40)	31.10	(26.00)
12	26.1	(7.1)	37.7	(9.5)	-15.50	(13.50)	9.12	(9.44)	26.1	(7.2)	38.4	(9.5)	-15.00	(15.40)	6.41	(5.15)
13	29.7	(5.3)	35.4	(6.7)	-7.08	(6.90)	5.45	(4.68)	29.9	(5.4)	35.6	(6.7)	-7.70	(7.95)	5.84	(5.36)
14	30.0	(3.8)	39.3	(5.9)	-8.83	(9.69)	4.20	(4.25)	30.5	(3.5)	39.5	(5.5)	-9.88	(11.20)	4.23	(4.38)
15	29.6	(4.0)	41.9	(8.1)	-8.99	(9.51)	4.44	(4.42)	30.1	(3.8)	42.6	(8.2)	-10.00	(10.80)	4.48	(4.57)
16	29.0	(4.0)	42.3	(8.2)	-9.98	(9.72)	4.34	(4.00)	29.4	(3.8)	43.2	(8.2)	-11.50	(11.60)	4.39	(4.13)
17	29.2	(3.6)	44.5	(9.3)	-7.65	(7.48)	5.50	(5.76)	29.2	(3.7)	45.3	(9.4)	-7.74	(7.93)	5.50	(5.82)
18	29.7	(3.2)	37.5	(10.2)	-7.50	(7.03)	6.62	(6.37)	29.8	(3.2)	38.3	(10.4)	-7.62	(6.96)	6.69	(6.37)
19	30.2	(3.5)	38.6	(8.5)	-8.33	(7.64)	7.28	(6.40)	30.4	(3.5)	39.3	(8.8)	-7.99	(7.03)	7.33	(6.40)
20	31.2	(3.3)	37.9	(8.3)	-6.56	(6.03)	11.60	(9.34)	31.3	(3.4)	38.8	(8.6)	-6.34	(5.83)	11.40	(9.33)
21	31.4	(2.5)	38.9	(6.7)	-6.53	(5.59)	12.00	(9.85)	31.5	(2.6)	40.0	(7.1)	-6.05	(5.22)	11.50	(9.60)
22	30.2	(2.7)	35.7	(6.7)	-6.79	(6.38)	9.76	(9.02)	30.3	(2.8)	36.6	(7.1)	-6.20	(5.79)	9.62	(9.04)
23	29.8	(2.8)	40.4	(5.3)	-7.27	(6.91)	7.47	(7.33)	29.8	(2.8)	41.0	(5.4)	-6.65	(6.26)	7.44	(7.37)
24	30.9	(1.1)	41.0	(3.2)	-8.49	(8.17)	10.80	(10.60)	30.9	(1.2)	41.6	(3.1)	-7.94	(7.72)	11.00	(10.60)
25	30.3	(1.1)	43.8	(3.4)	-7.78	(8.11)	9.47	(9.02)	30.3	(1.1)	44.5	(3.2)	-7.21	(7.85)	9.62	(9.29)
26	30.2	(1.2)	47.7	(4.0)	-7.61	(7.05)	10.70	(9.50)	30.2	(1.3)	48.3	(3.7)	-7.58	(7.29)	10.80	(9.58)
27	30.3	(1.7)	48.7	(4.8)	-9.96	(7.23)	16.00	(14.60)	30.4	(1.8)	49.0	(4.6)	-9.77	(7.03)	16.10	(14.60)
28	29.6	(1.6)	46.6	(6.0)	-9.32	(8.04)	13.40	(13.10)	29.7	(1.6)	46.8	(5.4)	-9.23	(7.58)	13.70	(13.00)
29	29.5	(1.7)	44.7	(6.4)	-9.89	(7.22)	15.60	(14.00)	29.7	(1.7)	45.0	(5.8)	-10.10	(7.40)	15.70	(13.90)
30	29.4	(1.6)	47.8	(4.5)	-9.95	(7.06)	15.60	(13.50)	29.4	(1.7)	48.2	(4.3)	-10.50	(7.41)	15.80	(13.40)
Mean	27.6		44.5		-11.00		13.90		27.7		45.1		-12.00		16.70	
n	30		30		30		30		30		30		30		30	
SD	3.3		6.7		8.00		11.50		3.3		6.8		7.94		13.80	
Min	20.3		34.1		-28.90		0.00		20.1		34.0		-27.30		0.00	
Max	31.4		58.2		0.63		39.10		31.5		58.7		0.55		43.60	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for July, 2008.

Day	House 10				House 12			
	T, °C	RH, %	ΔP, Pa	Airflow, $dsm^3 s^{-1}$	T, °C	RH, %	ΔP, Pa	Airflow, $dsm^3 s^{-1}$
1	29.1 (1.5)	48.1 (5.8)	-11.00 (8.47)	15.30 (13.20)	29.2 (1.6)	48.7 (5.2)	-11.20 (8.47)	15.30 (13.00)
2	29.4 (1.7)	44.4 (5.6)	-11.70 (7.73)	17.40 (14.00)	29.4 (1.9)	45.2 (5.3)	-11.20 (7.71)	17.60 (14.10)
3	29.4 (1.7)	47.9 (3.4)	-12.20 (8.23)	18.20 (13.90)	29.5 (1.8)	48.3 (3.1)	-12.10 (7.94)	18.50 (14.00)
4	28.5 (1.2)	50.5 (5.8)	-12.70 (8.99)	13.40 (9.90)	28.5 (1.2)	51.1 (5.0)	-11.80 (8.23)	13.60 (9.98)
5	29.0 (1.6)	51.3 (4.6)	-16.60 (9.23)	21.50 (15.30)	29.0 (1.8)	51.8 (4.5)	-14.80 (8.03)	21.90 (15.80)
6	29.2 (1.5)	54.6 (2.1)	-17.30 (8.34)	24.70 (14.50)	29.2 (1.7)	55.3 (2.1)	-15.60 (7.44)	24.90 (15.10)
7	29.8 (1.8)	53.5 (4.1)	-20.70 (8.00)	29.40 (13.10)	29.7 (1.8)	55.0 (4.1)	-17.40 (6.52)	29.30 (13.80)
8	30.6 (2.2)	53.9 (5.1)	-27.30 (9.30)	36.40 (14.30)	30.5 (2.1)	55.7 (5.2)	-24.60 (8.87)	36.50 (15.40)
9	30.5 (2.0)	48.3 (5.0)	-26.60 (8.66)	38.50 (11.90)	30.4 (1.9)	50.4 (5.1)	-24.40 (8.65)	38.50 (13.00)
10	30.0 (2.2)	50.3 (3.7)	-26.60 (9.14)	36.50 (13.90)	30.0 (2.0)	52.8 (4.0)	-22.90 (10.20)	36.40 (14.80)
11	28.3 (2.1)	52.5 (2.7)	-22.30 (8.79)	29.10 (14.70)	28.2 (2.2)	54.0 (2.8)	-16.70 (11.30)	31.00 (13.70)
12	27.9 (2.2)	54.3 (3.7)	-22.70 (9.01)	30.40 (15.00)	28.0 (2.3)	56.0 (4.2)	-21.40 (8.14)	30.50 (15.60)
13	28.2 (2.2)	54.9 (2.8)	-24.90 (9.57)	34.90 (14.20)	28.3 (2.1)	56.5 (2.9)	-23.10 (8.71)	34.90 (14.90)
14	28.0 (2.1)	53.9 (2.3)	-25.90 (8.58)	36.00 (12.80)	28.2 (1.8)	55.9 (2.7)	-23.30 (8.70)	36.00 (13.90)
15	26.9 (2.2)	56.7 (2.7)	-22.50 (9.51)	31.20 (14.60)	27.2 (2.0)	58.5 (3.0)	-21.10 (8.45)	31.60 (15.30)
16	26.9 (2.5)	55.3 (3.2)	-24.10 (9.51)	32.10 (14.30)	27.0 (2.4)	57.5 (3.6)	-22.00 (8.95)	32.60 (14.90)
17	27.0 (2.6)	51.3 (3.7)	-26.10 (9.91)	35.00 (13.80)	27.1 (2.3)	54.1 (3.9)	-23.60 (9.80)	35.40 (14.60)
18	26.3 (2.6)	55.8 (2.4)	-24.70 (10.30)	34.40 (13.70)	26.4 (2.4)	57.7 (2.8)	-23.00 (10.20)	34.70 (14.40)
19	26.3 (2.5)	54.8 (4.4)	-24.60 (10.70)	36.90 (11.10)	26.4 (2.1)	56.3 (4.5)	-24.70 (9.69)	38.30 (12.40)
20	24.8 (2.2)	56.7 (3.2)	-23.10 (8.94)	32.90 (12.90)	25.2 (2.2)	57.4 (3.4)	-22.50 (10.20)	34.00 (15.00)
21	24.1 (2.2)	58.3 (3.8)	-23.40 (9.04)	33.00 (13.20)	24.4 (2.2)	58.9 (4.1)	-21.40 (9.07)	33.00 (14.20)
22	24.3 (2.3)	59.4 (3.6)	-28.30 (13.70)	38.40 (15.10)	24.6 (2.4)	60.0 (3.9)	-26.50 (13.60)	39.20 (15.90)
23	24.8 (1.9)	59.5 (6.2)	-35.20 (13.60)	46.00 (11.50)	25.2 (1.9)	59.6 (5.2)	-34.00 (13.50)	46.60 (12.70)
24	24.6 (1.9)	60.2 (6.2)	-34.00 (13.70)	46.00 (9.52)	25.0 (1.9)	60.1 (4.9)	-32.30 (13.80)	46.80 (10.60)
25	25.0 (2.1)	63.0 (5.5)	-36.20 (14.40)	47.30 (9.44)	25.3 (2.1)	62.7 (4.6)	-34.40 (14.00)	47.90 (10.60)
26	25.1 (1.9)	59.9 (5.3)	-36.10 (14.60)	47.80 (9.30)	25.5 (2.1)	59.2 (4.6)	-34.30 (13.10)	49.10 (10.70)
27	24.7 (1.4)	59.8 (4.2)	-33.60 (15.50)	46.40 (10.20)	25.0 (1.4)	60.0 (3.9)	-30.70 (14.50)	47.80 (11.40)
28	23.9 (2.1)	60.3 (4.9)	-31.90 (14.80)	42.50 (12.20)	24.2 (2.0)	60.4 (4.5)	-29.20 (14.20)	43.60 (14.10)
29	23.8 (2.2)	58.7 (5.1)	-33.10 (14.60)	42.70 (11.10)	24.0 (2.0)	59.5 (5.3)	-30.40 (13.90)	43.40 (13.30)
30	24.2 (2.2)	60.3 (5.9)	-33.70 (14.50)	42.80 (10.50)	24.0 (2.3)	61.5 (6.2)	-31.50 (13.40)	44.20 (12.40)
31	23.6 (2.4)	55.5 (4.9)	-31.70 (17.50)	43.50 (11.90)	24.1 (1.9)	55.4 (7.1)	-31.10 (15.00)	45.20 (11.20)
Mean	26.9	55.0	-25.20	34.20	27.1	56.0	-23.30	34.80
n	31	31	31	31	31	31	31	31
SD	2.3	4.4	7.25	9.51	2.1	4.1	6.95	9.78
Min	23.6	44.4	-36.20	13.40	24.0	45.2	-34.40	13.60
Max	30.6	63.0	-11.00	47.80	30.5	62.7	-11.20	49.10

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for August, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	25.9	(6.5)	54.3	(10.2)	-4.11	(5.16)	21.00	(27.60)	25.6	(6.6)	54.0	(9.5)	-6.21	(8.23)	30.60	(34.10)
2	27.1	(4.9)	62.2	(17.7)	-34.10	(28.50)	28.80	(32.90)	27.0	(5.1)			-35.70	(31.00)		
3	26.1	(5.6)	45.6	(9.0)	-63.60	(1.49)	8.06	(0.18)	25.8	(5.8)			-67.60	(1.40)		
4	26.0	(5.8)	46.2	(10.6)	-26.90	(21.80)	13.20	(3.04)	25.5	(5.8)			-28.10	(23.20)		
5	26.0	(5.2)	42.8	(6.6)	-17.30	(2.14)	14.70	(0.38)	25.4	(5.3)			-17.90	(0.89)		
6	28.0	(5.5)	41.9	(6.9)	-8.39	(8.22)	13.50	(15.20)	27.1	(5.6)			-7.67	(8.64)		
7	29.2	(4.3)	39.8	(5.9)	-4.46	(6.42)	3.51	(4.33)	28.5	(4.4)			-4.94	(7.12)		
8	26.7	(4.8)	45.3	(6.0)	-12.30	(6.72)	5.68	(2.89)	26.1	(4.9)			-14.30	(7.46)		
9	25.2	(5.8)	46.9	(9.6)	-14.40	(5.02)	6.31	(1.94)	24.7	(5.9)			-16.70	(5.12)		
10	27.1	(6.1)	46.2	(10.8)	-10.30	(8.19)	4.92	(3.75)	26.5	(6.2)			-11.40	(8.65)		
11	30.6	(3.8)	41.6	(8.1)	-7.66	(9.14)	4.73	(5.31)	30.3	(4.0)			-7.79	(8.82)		
12	31.1	(3.8)	44.4	(7.2)	-10.20	(10.70)	5.31	(5.62)	31.1	(3.8)	38.8	(6.7)	-8.97	(9.57)	5.57	(5.85)
13	31.7	(3.6)	48.5	(7.2)	-11.70	(10.70)	6.15	(5.77)	31.7	(3.6)	42.5	(6.6)	-10.00	(9.69)	6.30	(6.01)
14	31.6	(3.3)	48.9	(7.2)	-12.60	(10.40)	6.75	(5.91)	31.6	(3.2)	43.1	(6.5)	-11.00	(9.65)	6.87	(6.15)
15	31.4	(3.1)	43.7	(7.0)	-7.31	(6.60)	7.81	(6.30)	31.5	(3.0)	38.2	(6.6)	-7.15	(6.79)	7.86	(6.50)
16	31.3	(2.7)	44.5	(6.0)	-7.14	(5.84)	7.56	(6.29)	31.4	(2.7)	38.9	(5.7)	-6.86	(5.97)	7.63	(6.40)
17	29.5	(2.6)	52.2	(8.2)	-7.26	(6.78)	6.37	(5.88)	29.5	(2.7)	46.1	(8.0)	-7.34	(7.01)	6.37	(5.89)
18	28.8	(2.1)	55.3	(6.4)	-5.50	(6.28)	4.18	(4.23)	28.6	(2.2)	48.9	(6.4)	-6.99	(7.03)	4.29	(4.11)
19	28.9	(1.7)	54.6	(5.6)	-6.19	(6.39)	4.36	(3.91)	28.7	(1.8)	48.5	(5.6)	-7.51	(7.16)	4.40	(3.92)
20	29.9	(2.2)	53.8	(5.3)	-5.68	(5.88)	7.02	(5.99)	29.8	(2.4)	47.5	(5.5)	-6.89	(6.74)	7.61	(7.18)
21	30.6	(1.1)	51.8	(5.2)	-7.23	(5.82)	10.90	(9.72)	30.7	(1.2)	45.2	(4.9)	-7.82	(6.90)	11.20	(10.30)
22	30.7	(1.4)	49.4	(5.4)	-8.43	(6.31)	13.60	(11.40)	30.7	(1.6)	43.1	(4.7)	-8.62	(6.33)	13.90	(11.60)
23	30.4	(1.4)	51.7	(4.4)	-7.93	(6.12)	12.60	(11.00)	30.5	(1.6)	45.1	(3.8)	-8.06	(6.26)	12.90	(11.30)
24	30.3	(1.5)	51.4	(4.2)	-9.04	(5.93)	14.30	(11.00)	30.3	(1.6)	45.3	(3.6)	-9.11	(6.57)	14.70	(11.50)
25	29.8	(1.5)	46.4	(5.3)	-9.06	(6.24)	14.40	(11.30)	29.8	(1.7)	40.8	(4.9)	-9.08	(6.76)	14.80	(11.90)
26	29.1	(1.4)	46.3	(5.0)	-9.78	(6.57)	15.70	(13.10)	29.2	(1.5)	40.7	(4.4)	-10.30	(6.95)	15.70	(13.40)
27	29.5	(1.7)	49.0	(4.3)	-11.20	(6.52)	19.80	(14.20)	29.6	(1.8)	43.5	(3.7)	-10.90	(6.21)	19.50	(14.00)
28	29.5	(1.6)	52.2	(3.7)	-12.00	(6.12)	20.60	(13.10)	29.6	(1.7)	46.3	(3.5)	-12.20	(5.97)	20.60	(13.40)
29	29.7	(1.7)	51.4	(3.6)	-13.30	(5.23)	22.90	(13.00)	29.7	(1.8)	46.2	(3.5)	-13.00	(4.94)	22.60	(12.80)
30	29.3	(1.4)	46.1	(4.7)	-11.80	(5.89)	19.60	(13.60)	29.3	(1.5)	42.0	(4.1)	-11.60	(6.26)	19.10	(13.50)
31	28.0	(1.2)	43.3	(8.0)	-9.99	(6.85)	14.20	(11.00)	28.2	(1.3)	39.1	(6.8)	-10.40	(7.03)	14.60	(11.30)
Mean	29.0		48.3		-12.50		11.60		28.8		44.0		-13.00		12.70	
n	31		31		31		31		31		21		31		21	
SD	1.9		4.9		11.10		6.46		2.1		3.9		11.80		6.80	
Min	25.2		39.8		-63.60		3.51		24.7		38.2		-67.60		4.29	
Max	31.7		62.2		-4.11		28.80		31.7		54.0		-4.94		30.60	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for September, 2008.

Day	House 10				House 12			
	T, °C	RH, %	ΔP, Pa	Airflow, $dsm^3 s^{-1}$	T, °C	RH, %	ΔP, Pa	Airflow, $dsm^3 s^{-1}$
1	28.1 (1.2)	41.9 (7.7)	-10.50 (5.93)	14.80 (11.40)	28.2 (1.4)	37.5 (6.2)	-11.80 (6.76)	15.80 (12.70)
2	28.3 (1.4)	44.9 (7.3)	-11.90 (6.53)	18.20 (13.40)	28.3 (1.7)	40.5 (6.3)	-12.40 (6.24)	18.60 (13.60)
3	28.3 (1.5)	47.1 (5.8)	-15.00 (8.55)	22.70 (15.50)	28.6 (1.5)	42.2 (4.7)	-15.20 (7.95)	22.40 (15.60)
4	28.3 (1.8)	46.4 (5.0)	-15.20 (9.23)	23.10 (13.90)	28.4 (1.9)	42.6 (4.6)	-15.20 (8.16)	23.70 (14.90)
5	28.3 (1.7)	48.3 (4.3)	-17.60 (9.17)	25.60 (13.30)	28.5 (1.7)	44.5 (3.7)	-16.60 (7.58)	25.90 (14.00)
6	28.3 (1.6)	50.2 (5.5)	-18.20 (8.79)	26.90 (12.80)	28.6 (1.6)	46.1 (4.6)	-17.00 (7.56)	26.60 (13.80)
7	28.0 (1.6)	48.5 (3.5)	-19.00 (8.37)	26.70 (12.20)	28.3 (1.7)	44.5 (2.8)	-17.50 (6.82)	26.70 (13.10)
8	27.2 (1.7)	52.8 (3.4)	-15.80 (8.51)	23.40 (12.90)	27.5 (1.7)	48.2 (3.4)	-16.20 (7.60)	24.00 (13.90)
9	26.6 (1.5)	56.0 (5.2)	-14.30 (8.45)	20.40 (12.40)	26.9 (1.6)	51.2 (5.4)	-14.80 (7.20)	20.80 (12.90)
10	26.7 (2.0)	55.8 (6.5)	-17.90 (11.40)	24.70 (15.30)	27.0 (2.1)	50.6 (6.5)	-17.50 (9.85)	24.80 (15.90)
11	27.2 (2.2)	54.7 (5.2)	-20.30 (11.80)	27.40 (15.30)	27.6 (2.2)	49.2 (5.3)	-19.80 (10.60)	27.70 (16.20)
12	26.6 (2.3)	53.8 (5.7)	-20.60 (11.40)	27.00 (15.20)	27.1 (2.3)	48.4 (5.6)	-19.50 (10.40)	27.10 (16.10)
13	25.8 (2.3)	55.8 (5.6)	-21.90 (10.30)	26.80 (14.50)	26.2 (2.3)	50.1 (5.6)	-19.60 (9.91)	27.30 (15.40)
14	26.0 (2.4)	57.1 (4.5)	-24.70 (10.10)	30.00 (14.00)	26.1 (2.3)	51.4 (4.5)	-21.90 (10.00)	30.40 (15.10)
15	26.1 (2.1)	58.8 (3.2)	-26.20 (10.40)	33.50 (13.20)	26.1 (2.0)	52.8 (3.5)	-24.70 (11.20)	34.80 (15.00)
16	25.7 (2.4)	56.6 (3.8)	-25.20 (9.62)	34.20 (11.40)	25.7 (2.3)	50.9 (3.7)	-23.80 (10.90)	35.30 (13.40)
17	24.2 (2.3)	56.2 (5.8)	-23.20 (8.07)	30.20 (11.90)	24.4 (2.2)	50.9 (5.8)	-21.50 (7.70)	30.60 (12.80)
18	24.0 (2.3)	56.6 (5.8)	-23.70 (8.95)	31.10 (12.50)	24.2 (2.2)	51.4 (5.9)	-22.00 (8.59)	31.40 (13.10)
19	23.8 (2.2)	57.5 (7.3)	-24.50 (8.88)	33.50 (10.70)	24.0 (2.1)	51.9 (6.8)	-22.70 (8.54)	34.20 (11.40)
20	23.7 (2.4)	64.1 (6.3)	-25.00 (9.13)	35.60 (8.89)	23.9 (2.3)	56.9 (5.8)	-23.40 (8.73)	36.30 (9.72)
21	23.8 (2.5)	62.0 (5.7)	-25.70 (9.66)	34.60 (10.50)	24.0 (2.4)	55.3 (5.6)	-24.10 (9.20)	34.70 (11.70)
22	23.7 (2.4)	56.9 (8.0)	-26.70 (9.96)	34.40 (11.40)	23.9 (2.3)	51.5 (7.1)	-24.20 (9.74)	34.50 (12.90)
23	24.1 (2.7)	52.8 (4.4)	-29.80 (11.90)	37.00 (12.20)	24.6 (2.6)	47.9 (4.6)	-27.70 (11.80)	37.60 (13.60)
24	24.3 (2.8)	53.6 (3.9)	-29.70 (11.10)	37.80 (9.48)	24.8 (2.7)	48.6 (3.6)	-28.40 (11.60)	38.80 (11.60)
25	24.8 (2.2)	49.0 (5.2)	-32.30 (11.40)	41.40 (7.13)	25.1 (2.1)	44.7 (4.6)	-30.00 (11.50)	42.40 (8.71)
26	24.8 (2.4)	57.6 (4.1)	-33.50 (12.80)	46.60 (12.70)	24.5 (2.3)	53.1 (3.0)	-32.90 (12.30)	47.80 (12.40)
27	25.6 (6.0)	48.7 (12.0)	-16.10 (13.20)	42.50 (26.20)	25.7 (5.5)	44.6 (10.0)	-9.85 (9.65)	33.60 (19.50)
28	26.0 (5.8)	46.5 (11.1)	-2.64 (0.37)	16.10 (0.33)	26.0 (5.9)	42.0 (10.3)	-2.29 (0.45)	16.30 (0.35)
29	23.5 (4.3)	56.9 (8.4)	-6.46 (4.31)	28.20 (23.20)	23.7 (4.2)	51.1 (7.3)	-6.15 (3.73)	26.10 (22.60)
30	23.4 (4.4)		-3.49 (4.95)		22.6 (3.8)	58.7 (6.9)	-2.30 (3.62)	22.90 (25.20)
Mean	25.8	53.3	-19.90	29.50	26.0	48.6	-18.70	29.30
n	30	29	30	29	30	30	30	30
SD	1.7	5.2	7.75	7.60	1.8	4.8	7.34	7.41
Min	23.4	41.9	-33.50	14.80	22.6	37.5	-32.90	15.80
Max	28.3	64.1	-2.64	46.60	28.6	58.7	-2.29	47.80

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for October, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	25.5	(3.0)			0.56	(0.47)			23.1	(2.9)	56.7	(8.6)	0.64	(0.31)	0.00	(0.00)
2	24.5	(1.0)			-2.07	(8.46)			22.9	(2.0)	68.5	(9.1)	-0.22	(3.05)	2.35	(8.21)
3	23.1	(1.7)	74.9	(5.6)	0.72	(0.29)	0.00	(0.00)	21.9	(1.8)	67.6	(7.4)	0.77	(0.28)	0.00	(0.00)
4	22.1	(1.5)	76.5	(3.6)	0.75	(0.80)	0.00	(0.00)	21.0	(1.6)	70.3	(4.2)	0.82	(0.38)	0.00	(0.00)
5	21.2	(2.2)	70.7	(7.6)	0.76	(0.34)	0.00	(0.00)	20.2	(2.2)	63.6	(9.0)	0.73	(0.34)	0.00	(0.00)
6	22.2	(2.5)	70.2	(8.4)	0.67	(0.28)	0.00	(0.00)	21.2	(2.6)	63.2	(9.4)	0.69	(0.30)	0.00	(0.00)
7	23.0	(2.9)	67.1	(9.6)	0.59	(0.40)	0.66	(1.59)	22.2	(3.0)	59.7	(9.9)	0.56	(0.45)	0.68	(1.12)
8	22.8	(3.0)	63.9	(9.4)	0.60	(0.38)	0.91	(1.82)	22.1	(3.0)	56.8	(9.7)	0.57	(0.42)	0.93	(1.39)
9	20.3	(2.3)	53.1	(12.9)	-2.54	(5.02)	8.87	(14.00)	19.4	(2.3)	45.8	(13.6)	-2.67	(4.59)	9.96	(14.70)
10	19.0	(1.3)	49.7	(6.9)	-0.22	(1.15)	0.94	(1.89)	17.8	(1.3)	43.7	(7.1)	-0.55	(1.47)	0.94	(1.88)
11	17.4	(2.1)	44.5	(6.5)	-0.37	(1.03)	0.96	(1.91)	16.3	(2.2)	38.9	(7.0)	-0.77	(1.23)	0.98	(1.95)
12	16.1	(3.4)	42.1	(6.5)	-0.14	(0.68)	0.94	(1.88)	15.5	(3.3)	37.1	(6.8)	-0.17	(0.92)	0.97	(1.94)
13	17.6	(5.9)	40.6	(8.5)	-1.53	(4.05)	10.40	(14.70)	16.8	(6.3)	35.4	(8.4)	-0.24	(2.26)	10.00	(22.40)
14	19.8	(6.1)	41.2	(4.7)	0.42	(0.49)	0.93	(1.45)	19.5	(6.4)	35.6	(4.8)	0.56	(0.46)	0.95	(1.90)
15	20.7	(6.5)	43.1	(5.1)	-1.31	(3.09)	1.60	(4.84)	20.3	(6.6)	37.4	(4.6)	-1.03	(3.76)	1.43	(4.49)
16	21.8	(6.4)	46.5	(4.8)	-2.88	(4.37)	0.86	(1.06)	21.4	(6.4)	40.3	(4.6)	-2.46	(6.01)	0.83	(1.55)
17	22.1	(6.2)	48.0	(4.8)	-3.27	(4.75)	0.85	(1.08)	21.7	(6.3)	42.0	(4.5)	-2.75	(5.39)	0.85	(1.29)
18	23.2	(4.1)	50.2	(3.7)	-2.80	(5.04)	0.84	(1.22)	22.8	(4.1)	43.9	(3.8)	-2.52	(4.36)	0.89	(1.17)
19	24.2	(3.6)	51.0	(5.1)	-2.78	(6.03)	0.82	(1.42)	23.7	(3.6)	44.9	(5.4)	-2.43	(3.77)	0.88	(1.08)
20	23.6	(3.3)	54.4	(5.1)	-3.12	(7.11)	0.83	(1.60)	22.8	(3.3)	48.9	(5.3)	-2.97	(4.76)	0.91	(1.20)
21	23.9	(3.4)	58.3	(6.9)	-4.32	(8.02)	1.05	(1.68)	23.2	(3.5)	52.7	(7.0)	-4.25	(7.14)	1.13	(1.60)
22	24.6	(4.8)	57.7	(10.8)	-7.40	(10.70)	1.62	(1.91)	23.9	(4.8)	52.4	(11.6)	-7.64	(10.90)	1.79	(2.07)
23	24.9	(4.4)	55.7	(12.3)	-11.90	(14.00)	2.52	(2.67)	24.2	(4.5)	50.1	(12.7)	-13.00	(14.80)	2.86	(2.94)
24	24.7	(4.7)	55.4	(12.5)	-14.00	(15.60)	2.84	(2.93)	24.1	(4.7)	48.5	(12.5)	-14.80	(16.00)	3.23	(3.20)
25	25.0	(4.7)	55.7	(13.1)	-14.00	(14.10)	3.44	(3.38)	24.4	(4.7)	48.6	(12.6)	-13.40	(13.50)	3.89	(3.82)
26	25.4	(4.5)	56.1	(13.1)	-13.30	(13.60)	3.33	(3.21)	24.8	(4.6)	49.1	(12.6)	-12.80	(13.40)	3.58	(3.54)
27	24.8	(3.5)	61.1	(8.5)	-11.20	(13.10)	2.65	(2.83)	24.3	(3.4)	54.0	(8.9)	-11.00	(12.70)	2.85	(2.99)
28	28.3	(4.6)	55.0	(12.5)	-13.00	(13.50)	3.40	(3.25)	28.5	(4.5)	47.4	(12.1)	-12.00	(12.20)	3.65	(3.44)
29	31.5	(0.7)	45.9	(2.9)	-11.70	(13.30)	3.73	(3.74)	30.8	(0.9)	39.8	(3.0)	-11.70	(13.10)	3.87	(3.74)
30	30.4	(0.5)	53.2	(4.5)	-7.12	(11.30)	2.74	(3.47)	29.8	(0.3)	46.6	(3.9)	-7.70	(11.60)	2.82	(3.41)
31	30.1	(0.4)	59.8	(3.2)	-9.01	(11.90)	3.20	(3.66)	29.2	(0.4)	52.9	(3.1)	-8.89	(12.50)	3.08	(3.68)
Mean	23.4		55.2		-4.35		2.10		22.6		49.8		-4.21		2.14	
n	31		29		31		29		31		31		31		31	
SD	3.6		9.7		5.15		2.36		3.6		9.7		5.22		2.40	
Min	16.1		40.6		-14.00		0.00		15.5		35.4		-14.80		0.00	
Max	31.5		76.5		0.76		10.40		30.8		70.3		0.82		10.00	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for November, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	29.7	(0.4)	60.0	(2.4)	-10.30	(13.70)	3.47	(4.06)	28.8	(0.4)	52.7	(2.1)	-10.60	(14.60)	3.48	(4.10)
2	29.6	(0.5)	61.4	(3.2)	-13.20	(14.30)	4.35	(4.20)	28.7	(0.4)	54.3	(2.1)	-12.90	(14.70)	4.29	(4.28)
3	29.3	(0.4)	62.8	(3.9)	-9.79	(13.30)	3.40	(3.95)	28.3	(0.4)	55.7	(3.9)	-9.73	(13.90)	3.39	(4.07)
4	29.0	(0.4)	58.4	(4.3)	-12.60	(13.70)	4.18	(4.09)	28.0	(0.4)	51.3	(3.7)	-12.90	(13.40)	4.37	(3.98)
5	28.6	(0.6)	58.7	(3.5)	-11.30	(13.50)	3.81	(4.02)	27.5	(0.5)	51.5	(2.8)	-11.70	(12.00)	4.13	(3.68)
6	28.1	(0.6)	60.2	(4.4)	-14.10	(13.60)	4.63	(3.90)	27.0	(0.5)	53.0	(4.0)	-14.30	(13.50)	4.85	(4.04)
7																
8																
9																
10																
11	27.0	(0.4)	62.3	(3.9)	-12.40	(10.80)	8.27	(6.42)	26.7	(0.5)	56.0	(3.5)	-16.50	(14.50)	7.82	(6.30)
12	27.0	(0.5)	61.2	(4.6)	-13.10	(10.30)	9.05	(6.49)	26.6	(0.6)	55.9	(4.3)	-17.50	(13.60)	8.64	(6.12)
13	27.1	(0.7)	60.6	(4.2)	-15.60	(12.00)	10.40	(7.64)	26.7	(0.8)	55.4	(4.3)	-19.70	(14.70)	10.00	(7.15)
14	26.6	(0.6)	61.6	(3.2)	-16.30	(10.80)	11.20	(7.43)	26.4	(0.8)	55.9	(3.4)	-20.60	(13.50)	10.80	(7.03)
15	26.7	(1.1)	60.2	(4.8)	-17.20	(10.70)	13.10	(8.52)	26.5	(1.3)	54.3	(4.7)	-22.70	(13.80)	12.50	(8.01)
16	26.7	(1.5)	57.0	(5.2)	-19.00	(10.90)	14.10	(8.76)	26.4	(1.7)	52.3	(5.2)	-24.40	(13.80)	13.50	(8.23)
17	26.4	(1.6)	56.8	(5.5)	-19.50	(10.20)	14.50	(8.42)	26.1	(1.7)	51.7	(5.3)	-23.20	(11.50)	14.30	(8.41)
18	26.2	(1.6)	57.7	(5.5)	-20.10	(10.40)	14.30	(8.14)	25.8	(1.6)	52.3	(5.2)	-23.60	(11.40)	14.00	(8.23)
19	25.3	(0.8)	62.1	(3.9)	-18.50	(9.78)	12.50	(7.12)	25.1	(0.8)	56.2	(4.0)	-23.10	(11.70)	12.20	(7.00)
20	25.3	(0.7)	63.0	(2.8)	-18.00	(9.64)	13.40	(7.40)	25.0	(0.8)	57.5	(2.8)	-21.50	(11.80)	12.90	(7.34)
21	24.3	(0.9)	61.0	(2.7)	-16.00	(10.50)	12.00	(7.13)	23.7	(1.0)	55.4	(2.6)	-17.40	(11.90)	11.60	(7.43)
22	23.7	(1.1)	62.5	(3.9)	-16.40	(9.53)	12.90	(7.21)	23.3	(1.3)	56.7	(3.8)	-17.80	(10.50)	12.70	(7.37)
23	23.1	(1.2)	63.7	(3.9)	-16.90	(9.09)	13.40	(7.16)	22.7	(1.3)	57.5	(3.8)	-18.10	(9.72)	13.30	(7.17)
24	22.5	(0.9)	63.9	(3.6)	-18.30	(8.63)	14.00	(6.44)	22.2	(1.1)	58.3	(3.3)	-19.60	(9.32)	13.80	(6.40)
25	22.2	(0.7)	63.4	(3.5)	-20.50	(7.71)	15.70	(5.94)	22.3	(1.0)	58.9	(3.6)	-21.60	(8.96)	14.80	(5.98)
26	22.1	(0.4)	70.9	(2.0)	-22.10	(5.03)	16.20	(3.90)	21.8	(0.6)	65.9	(1.5)	-23.30	(5.85)	16.40	(4.12)
27	21.1	(0.9)			-22.40	(2.36)			21.4	(0.6)	66.3	(1.3)	-24.00	(2.34)	17.00	(1.53)
28	20.7	(0.6)	70.4	(1.9)	-22.50	(2.38)	17.70	(2.40)	20.7	(0.7)	63.5	(2.2)	-24.80	(3.02)	18.20	(2.42)
29	20.6	(1.0)	68.3	(2.6)	-21.40	(5.37)	17.20	(5.21)	20.6	(1.0)	62.7	(2.8)	-22.40	(6.88)	16.70	(6.02)
30	21.0	(1.2)	68.6	(2.3)	-22.00	(6.76)	17.70	(5.90)	20.5	(1.2)	64.2	(2.5)	-22.90	(6.73)	17.30	(6.15)
Mean	25.4		62.3		-16.90		11.30		24.9		56.7		-19.10		11.30	
n	26		25		26		25		26		26		26		26	
SD	2.9		3.8		3.81		4.69		2.6		4.4		4.54		4.63	
Min	20.6		56.8		-22.50		3.40		20.5		51.3		-24.80		3.39	
Max	29.7		70.9		-9.79		17.70		28.8		66.3		-9.73		18.20	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for December, 2008.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	20.5	(0.4)	71.9	(1.9)	-21.30	(4.57)	15.80	(2.63)	20.0	(0.4)	66.8	(1.2)	-22.20	(4.79)	15.80	(2.67)
2	21.0	(0.6)	72.7	(1.2)	-22.80	(3.55)	17.80	(3.37)	20.9	(0.6)	66.7	(1.4)	-24.00	(4.07)	17.40	(3.34)
3	20.0	(1.8)	71.5	(2.3)	-23.30	(4.05)	21.00	(13.70)	20.0	(2.3)	66.5	(2.6)	-24.10	(3.94)	21.60	(14.50)
4	12.4	(3.3)	84.6	(7.6)	-9.89	(8.78)	28.40	(24.70)	10.8	(2.2)	76.1	(4.1)	-10.80	(9.23)	40.90	(28.60)
5	8.2	(2.6)	91.1	(2.3)	-14.70	(0.46)	16.30	(0.15)	7.6	(2.7)	79.9	(2.5)	-7.40	(0.58)	17.00	(0.43)
6	8.5	(0.6)	83.5	(2.3)	-14.70	(0.31)	16.30	(0.04)	7.8	(0.6)	79.3	(2.0)	-7.65	(0.48)	16.70	(0.10)
7	9.0	(1.7)	79.5	(3.4)	-20.70	(6.63)	10.20	(4.02)	8.9	(1.9)	75.0	(4.5)	-20.10	(8.34)	10.40	(4.21)
8	8.8	(2.4)	82.7	(3.8)	-7.85	(9.94)	7.65	(8.98)	8.4	(2.1)	77.9	(3.6)	-7.76	(11.10)	4.84	(3.88)
9	13.0	(3.3)	79.8	(1.7)	-2.26	(5.59)	0.86	(1.71)	12.9	(3.7)	73.4	(7.1)	-2.78	(6.42)	1.17	(2.22)
10	14.6	(5.2)	80.0	(1.9)	-2.37	(5.96)	0.84	(1.68)	14.5	(5.2)	75.5	(2.6)	-2.50	(6.60)	0.85	(1.69)
11	19.6	(1.7)	78.7	(2.3)	-2.32	(6.21)	0.81	(1.63)	19.6	(1.7)	75.0	(2.8)	-2.35	(6.71)	0.82	(1.64)
12	19.7	(1.8)	76.0	(1.3)	-2.67	(6.58)	0.81	(1.61)	19.6	(1.7)	72.9	(2.3)	-2.79	(7.25)	0.81	(1.61)
13	19.5	(1.1)	75.6	(3.0)	-3.10	(6.62)	0.80	(1.54)	19.4	(1.3)	73.2	(3.8)	-3.65	(7.20)	0.82	(1.43)
14	17.4	(1.1)	80.9	(2.4)	-2.90	(6.19)	0.87	(1.40)	16.8	(1.1)	79.5	(1.8)	-2.96	(6.46)	0.89	(1.30)
15	18.7	(1.6)	82.6	(1.3)	-3.31	(6.48)	1.02	(1.47)	18.0	(1.7)	81.0	(1.1)	-3.55	(6.65)	1.03	(1.41)
16	19.1	(1.3)	85.1	(1.1)	-4.53	(6.99)	1.23	(1.60)	18.3	(1.5)	82.2	(0.7)	-5.02	(8.65)	1.23	(1.74)
17	18.4	(1.3)	83.2	(3.2)	-5.05	(6.64)	1.45	(1.78)	17.8	(1.3)	79.8	(3.5)	-6.12	(9.90)	1.42	(2.20)
18	19.0	(1.8)	82.8	(2.6)	-4.32	(6.48)	1.46	(1.82)	18.1	(2.0)	79.8	(2.5)	-4.56	(10.00)	1.42	(2.38)
19	20.1	(0.8)	82.3	(1.1)	-4.83	(7.20)	1.62	(2.02)	19.3	(0.9)	79.9	(1.2)	-5.25	(10.70)	1.57	(2.53)
20	19.2	(1.1)	86.1	(1.0)	-5.31	(7.90)	1.71	(2.16)	18.1	(1.0)	82.6	(0.3)	-5.72	(11.60)	1.62	(2.66)
21	28.9	(5.6)	67.3	(11.3)	-5.86	(9.16)	2.02	(2.48)	28.1	(5.9)	62.2	(12.1)	-6.08	(10.80)	2.00	(2.60)
22	30.9	(0.8)	56.5	(2.8)	-5.91	(9.40)	2.82	(3.57)	30.6	(0.7)	50.1	(2.9)	-7.07	(11.80)	2.57	(3.39)
23	29.8	(0.4)	57.0	(1.6)	-5.89	(10.10)	2.85	(3.83)	29.7	(0.5)	49.3	(1.5)	-7.56	(13.00)	2.77	(3.69)
24	29.6	(0.4)	58.3	(2.3)	-6.39	(9.83)	2.91	(3.64)	29.2	(0.6)	50.9	(2.4)	-8.14	(12.50)	2.84	(3.53)
25	29.2	(0.5)	56.2	(3.2)	-7.97	(10.10)	3.20	(3.95)	28.8	(0.5)	50.2	(2.8)	-11.20	(13.10)	3.11	(3.83)
26	28.7	(0.4)	55.9	(2.5)	-6.98	(9.70)	3.32	(3.81)	28.5	(0.6)	48.4	(2.4)	-9.15	(12.60)	3.21	(3.66)
27	28.4	(0.4)	56.8	(2.6)	-7.73	(9.24)	3.70	(3.62)	27.8	(0.4)	49.7	(3.0)	-9.69	(11.70)	3.59	(3.52)
28	28.1	(0.4)	57.6	(2.5)	-8.79	(10.10)	4.11	(3.94)	27.4	(0.4)	50.0	(2.8)	-11.40	(12.60)	4.05	(3.79)
29	28.0	(0.4)	59.3	(2.8)	-9.95	(10.50)	4.55	(4.09)	27.3	(0.5)	52.1	(3.1)	-12.70	(14.00)	4.34	(4.11)
30	27.6	(0.4)	62.4	(3.2)	-9.53	(10.30)	4.39	(3.99)	27.0	(0.4)	55.5	(3.6)	-11.80	(14.30)	4.08	(4.10)
31	27.4	(0.4)	63.8	(2.6)	-9.77	(11.10)	4.39	(4.21)	26.8	(0.4)	57.6	(2.9)	-12.10	(14.00)	4.19	(4.03)
Mean	20.7		73.0		-8.48		5.97		20.3		67.7		-8.97		6.29	
n	31		31		31		31		31		31		31		31	
SD	7.0		11.1		6.09		7.09		7.0		12.3		6.07		8.62	
Min	8.2		55.9		-23.30		0.80		7.6		48.4		-24.10		0.81	
Max	30.9		91.1		-2.26		28.40		30.6		82.6		-2.35		40.90	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for January, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	27.2	(0.4)	63.9	(2.0)	-10.70	(10.80)	4.73	(4.02)	26.5	(0.5)	58.3	(2.3)	-13.10	(13.50)	4.50	(3.83)
2	27.1	(0.4)	66.2	(2.2)	-11.70	(10.50)	5.02	(3.82)	26.4	(0.4)	60.1	(2.4)	-14.20	(12.90)	4.80	(3.65)
3	26.3	(0.6)	65.1	(1.4)	-12.00	(9.64)	5.30	(3.73)	25.8	(0.7)	58.6	(1.5)	-15.20	(12.10)	5.13	(3.56)
4	25.8	(0.4)	64.2	(2.4)	-11.90	(10.30)	5.23	(3.99)	25.2	(0.5)	58.8	(2.7)	-15.00	(12.80)	5.09	(3.85)
5	25.8	(0.4)	65.1	(1.5)	-10.30	(10.90)	5.90	(5.38)	25.3	(0.4)	60.7	(1.8)	-12.40	(13.10)	5.74	(5.23)
6	25.5	(0.5)	64.5	(1.5)	-10.50	(11.10)	6.50	(5.81)	25.1	(0.5)	60.4	(1.7)	-12.50	(13.40)	6.31	(5.65)
7	25.2	(0.5)	67.1	(2.0)	-8.82	(11.70)	5.54	(6.04)	25.1	(0.7)	62.9	(2.2)	-10.50	(14.10)	5.33	(5.86)
8	24.4	(0.5)	65.1	(2.8)	-11.30	(11.00)	6.95	(6.03)	24.7	(0.4)	60.4	(2.1)	-13.70	(13.90)	6.72	(5.94)
9	23.7	(0.8)			-16.60	(10.70)			24.2	(0.7)	57.1	(3.8)	-19.80	(13.40)	9.60	(5.80)
10	23.1	(0.8)			-15.30	(11.30)			23.8	(0.7)	57.4	(3.6)	-18.30	(13.40)	9.16	(5.97)
11	23.4	(0.8)	61.8	(2.9)	-16.50	(10.70)	11.00	(5.97)	23.5	(0.6)	57.8	(3.0)	-19.70	(12.50)	10.10	(5.87)
12	23.5	(0.5)	61.3	(3.5)	-18.00	(9.71)	12.30	(6.72)	23.4	(0.6)	56.9	(4.1)	-21.70	(11.40)	11.80	(6.32)
13	23.3	(0.5)	60.9	(4.3)	-19.50	(9.22)	14.10	(7.66)	23.3	(0.8)	56.2	(4.8)	-23.10	(10.80)	13.40	(7.11)
14	23.0	(0.8)	61.2	(3.3)	-17.90	(8.17)	14.00	(6.73)	23.0	(0.9)	56.6	(3.7)	-21.40	(9.66)	13.50	(6.43)
15	22.5	(0.8)	60.9	(3.3)	-16.50	(6.91)	15.20	(7.23)	22.7	(0.9)	55.8	(3.6)	-20.30	(8.50)	14.70	(6.87)
16	22.1	(1.1)	60.5	(5.2)	-17.50	(6.99)	16.60	(7.29)	22.4	(1.0)	56.9	(5.3)	-20.40	(7.95)	15.50	(7.09)
17	21.6	(1.2)	59.8	(5.0)	-18.00	(7.41)	16.90	(7.42)	21.9	(1.2)	56.3	(5.2)	-20.90	(8.46)	16.10	(7.39)
18	21.6	(1.3)	59.3	(5.0)	-19.00	(7.05)	17.60	(7.45)	21.8	(1.4)	55.1	(5.4)	-22.00	(7.64)	17.20	(7.33)
19	21.5	(1.6)	59.8	(5.0)	-19.40	(5.72)	17.80	(6.51)	21.5	(1.7)	55.4	(5.3)	-22.40	(5.86)	17.60	(6.36)
20	20.9	(1.5)	57.5	(6.6)	-22.20	(7.21)	17.50	(5.68)	21.0	(1.5)	55.6	(5.2)	-23.00	(5.92)	17.50	(5.93)
21	20.6	(0.5)	60.2	(3.8)	-22.90	(2.95)	16.10	(3.02)	21.0	(0.6)	61.7	(2.6)	-22.80	(2.74)	16.10	(3.10)
22	20.7	(0.4)	67.9	(1.5)	-22.60	(1.49)	18.50	(2.23)	21.0	(0.5)	66.4	(1.1)	-23.00	(1.64)	17.80	(2.47)
23	20.6	(0.4)	71.5	(0.9)	-23.80	(2.01)	19.20	(1.86)	20.9	(0.5)	68.8	(0.9)	-23.60	(2.07)	18.90	(1.84)
24	20.8	(0.5)	68.8	(3.3)	-23.70	(3.17)	20.50	(3.41)	21.2	(0.5)	66.1	(3.1)	-24.00	(2.90)	20.50	(3.18)
25	19.9	(0.5)	60.2	(3.1)	-22.60	(1.57)	17.80	(2.63)	20.4	(0.4)	59.0	(2.8)	-23.20	(1.28)	17.90	(2.56)
26	19.5	(0.7)	61.3	(3.1)	-23.10	(1.13)	16.70	(3.09)	19.9	(0.7)	59.1	(3.2)	-23.60	(1.56)	16.80	(3.03)
27	18.7	(1.7)	58.8	(5.8)	-23.60	(1.22)	16.20	(2.80)	18.2	(1.4)	57.1	(4.7)	-23.80	(1.40)	16.30	(2.76)
28	11.4	(3.0)	77.1	(10.0)	-13.60	(9.44)	27.80	(25.40)	12.8	(3.4)	69.5	(9.5)	-13.80	(10.30)	24.00	(25.40)
29	11.6	(5.2)	74.1	(10.0)	-6.11	(6.22)	12.90	(6.63)	11.4	(5.5)	75.4	(10.8)	-2.99	(3.48)	12.80	(7.01)
30	17.7	(3.8)	73.9	(3.3)	-2.14	(4.90)	1.39	(2.41)	18.0	(3.8)	71.7	(2.6)	-2.31	(5.20)	1.30	(2.40)
31	18.5	(2.4)	76.7	(2.9)	-1.73	(4.95)	0.85	(1.67)	18.7	(2.4)	74.1	(2.2)	-1.73	(5.34)	0.86	(1.69)
Mean	21.8		64.6		-15.80		12.60		21.9		60.8		-17.60		12.00	
n	31		29		31		29		31		31		31		31	
SD	3.7		5.4		6.13		6.48		3.5		5.6		6.44		6.02	
Min	11.4		57.5		-23.80		0.85		11.4		55.1		-24.00		0.86	
Max	27.2		77.1		-1.73		27.80		26.5		75.4		-1.73		24.00	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for February, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	18.4	(2.7)	75.4	(2.8)	-1.81	(5.00)	0.84	(1.69)	18.6	(2.7)	73.0	(2.2)	-1.77	(5.29)	0.85	(1.71)
2	17.9	(3.2)	74.7	(3.4)	-1.57	(4.81)	0.81	(1.76)	18.1	(3.1)	72.4	(2.7)	-1.54	(4.36)	0.83	(1.57)
3	17.8	(3.3)	73.5	(4.0)	-1.71	(4.93)	0.84	(1.67)	17.9	(3.3)	71.3	(2.8)	-1.69	(3.22)	0.89	(1.11)
4	16.8	(2.2)	71.9	(5.3)	-2.16	(4.94)	7.40	(14.70)	16.9	(2.2)	69.4	(4.9)	-1.74	(3.30)	4.89	(10.30)
5	15.1	(2.1)	75.8	(2.3)	-1.84	(4.32)	4.01	(10.70)	15.3	(1.8)	73.1	(1.9)	-1.25	(4.29)	0.89	(1.34)
6	15.5	(1.6)	75.8	(1.0)	-2.02	(5.43)	0.82	(1.55)	15.5	(1.6)	73.7	(1.3)	-1.99	(5.75)	0.85	(1.70)
7	19.1	(4.0)	79.4	(3.1)	-2.34	(6.05)	0.82	(1.63)	19.0	(4.0)	77.7	(3.5)	-2.42	(6.23)	0.84	(1.67)
8	19.6	(1.8)	75.8	(4.6)	-1.71	(6.06)	0.81	(1.61)	19.3	(1.8)	73.8	(5.4)	-2.18	(6.55)	0.82	(1.64)
9	18.7	(1.9)	73.3	(2.5)	-2.44	(6.58)			18.7	(2.0)	71.3	(3.3)	-3.00	(6.85)	0.82	(1.61)
10	19.3	(3.0)	76.8	(3.0)	-2.80	(7.34)	0.84	(1.68)	19.1	(3.1)	74.8	(3.7)	-2.81	(6.72)	0.87	(1.43)
11	20.2	(1.6)	78.9	(2.4)	-3.09	(8.02)	0.89	(1.79)	20.0	(1.7)	76.9	(3.4)	-2.99	(6.26)	0.96	(1.37)
12	20.7	(1.5)	83.0	(1.7)	-3.64	(8.89)			20.7	(1.6)	82.2	(1.9)	-3.59	(6.19)	1.06	(1.39)
13	20.4	(1.6)	82.5	(2.9)	-3.36	(8.24)	1.16	(2.05)	20.1	(1.6)	80.9	(3.3)	-3.33	(7.42)	1.20	(1.84)
14	20.2	(1.4)	82.9	(2.6)	-3.18	(5.52)	1.19	(1.53)	19.8	(1.4)	79.7	(3.8)	-3.13	(5.83)	1.20	(1.56)
15	18.9	(0.6)	81.2	(1.6)	-5.32	(7.25)	1.46	(1.82)	18.4	(0.9)	77.1	(2.5)	-5.05	(7.35)	1.45	(1.81)
16	19.8	(0.9)	82.6	(1.2)	-6.19	(8.34)	1.66	(2.04)	19.7	(1.0)	78.8	(1.9)	-5.47	(7.95)	1.67	(2.06)
17	25.4	(6.2)	72.8	(11.7)	-6.55	(10.20)	1.76	(2.34)	25.7	(6.6)	68.1	(12.2)	-5.74	(9.62)	1.75	(2.29)
18	31.8	(0.4)	57.8	(2.3)	-6.91	(11.50)	2.07	(2.70)	31.9	(0.4)	53.6	(1.6)	-5.88	(10.50)	2.11	(2.76)
19	31.4	(0.9)	52.3	(3.4)	-7.44	(10.70)	3.03	(3.45)	31.2	(0.8)	49.2	(3.3)	-7.05	(10.10)	3.10	(3.61)
20	30.5	(0.5)	55.1	(3.1)	-5.20	(8.63)	2.72	(3.49)	30.2	(0.5)	52.3	(2.7)	-5.50	(9.12)	2.68	(3.50)
21	29.9	(0.5)	57.7	(3.0)	-5.62	(9.11)	2.92	(3.52)	29.8	(0.4)	54.6	(2.4)	-5.83	(9.47)	2.93	(3.53)
22	29.4	(0.5)	62.1	(3.4)	-6.45	(9.90)	3.04	(3.58)	29.6	(0.5)	57.7	(3.0)	-6.63	(10.10)	3.03	(3.62)
23	28.9	(0.5)	65.1	(1.7)	-8.09	(10.20)	3.80	(3.99)	28.9	(0.4)	61.0	(1.7)	-8.44	(10.70)	3.76	(3.99)
24	28.5	(0.5)	60.5	(3.0)	-9.63	(9.99)	4.46	(4.03)	28.4	(0.5)	56.5	(2.7)	-10.30	(10.40)	4.53	(4.06)
25	28.1	(0.4)	59.7	(5.5)	-10.80	(10.40)	4.89	(4.12)	28.0	(0.4)	56.2	(5.0)	-11.10	(9.96)	4.93	(4.06)
26	28.0	(0.4)	61.7	(4.0)	-11.60	(10.20)	5.28	(4.06)	27.8	(0.4)	59.3	(4.1)	-11.70	(10.20)	5.22	(4.06)
27	27.8	(0.4)	59.9	(3.0)	-10.90	(9.60)	5.11	(3.85)	27.5	(0.5)	56.2	(3.0)	-11.40	(9.89)	5.12	(3.85)
28	27.6	(0.4)	62.0	(2.0)	-12.60	(9.86)	5.76	(3.92)	27.3	(0.4)	59.3	(1.9)	-12.30	(9.78)	5.46	(3.83)
Mean	23.1		70.4		-5.25		2.63		23.0		67.5		-5.21		2.31	
n	28		28		28		26		28		28		28		28	
SD	5.4		9.5		3.36		1.87		5.3		10.0		3.43		1.64	
Min	15.1		52.3		-12.60		0.81		15.3		49.2		-12.30		0.82	
Max	31.8		83.0		-1.57		7.40		31.9		82.2		-1.25		5.46	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for March, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	27.3	(0.4)	64.0	(1.3)	-14.70	(9.95)	6.39	(3.77)	27.1	(0.3)	62.0	(1.1)	-13.80	(9.84)	5.82	(3.81)
2	27.5	(0.5)	60.8	(3.0)	-15.50	(9.10)	8.16	(4.47)	27.2	(0.6)	60.4	(2.6)	-16.90	(9.33)	7.37	(3.77)
3	26.8	(0.5)	58.8	(2.0)	-12.00	(9.99)	7.54	(5.64)	26.9	(0.4)	58.4	(1.6)	-13.40	(10.70)	6.91	(5.01)
4	26.6	(0.6)	56.6	(3.8)	-12.10	(10.40)	7.54	(5.83)	26.3	(0.6)	56.0	(2.8)	-12.20	(10.50)	7.41	(5.80)
5	26.2	(0.7)	54.8	(3.7)	-12.60	(10.30)	7.88	(5.64)	26.1	(0.7)	54.5	(3.2)	-13.10	(10.80)	7.80	(5.73)
6	25.8	(0.6)	55.4	(4.2)	-13.10	(10.00)	8.29	(5.65)	25.6	(0.7)	55.2	(3.4)	-13.60	(10.80)	8.12	(5.86)
7	25.4	(0.7)	56.2	(4.5)	-13.00	(10.50)	8.14	(5.80)	25.2	(0.8)	55.1	(4.0)	-13.60	(10.00)	8.12	(5.53)
8	25.2	(0.8)	54.1	(5.2)	-15.10	(10.40)	9.77	(6.08)	25.1	(0.8)	53.1	(4.5)	-15.80	(10.70)	9.51	(5.74)
9	24.6	(0.6)	53.3	(5.3)	-13.80	(11.30)	8.40	(5.99)	24.2	(0.5)	52.5	(4.1)	-14.60	(12.30)	8.34	(6.09)
10	24.6	(0.8)	54.2	(7.1)	-16.50	(13.50)	8.56	(5.81)	24.3	(0.7)	53.4	(5.8)	-14.90	(11.40)	8.77	(5.90)
11	24.7	(0.6)	54.7	(6.6)	-16.80	(12.10)	9.12	(5.87)	24.4	(0.7)	54.5	(5.3)	-15.40	(10.50)	9.34	(5.87)
12	24.6	(0.5)	55.2	(5.8)	-18.90	(11.60)	11.60	(7.28)	24.6	(0.7)	54.8	(5.0)	-17.70	(10.40)	11.70	(6.93)
13	24.3	(0.8)	56.5	(5.7)	-18.30	(10.90)	13.20	(8.17)	24.5	(1.1)	55.7	(5.2)	-16.00	(8.36)	12.90	(7.39)
14	23.7	(0.6)	58.6	(4.6)	-15.00	(8.09)	11.10	(5.62)	24.0	(0.9)	58.7	(4.1)	-14.20	(7.56)	11.10	(5.65)
15	23.7	(0.6)	58.6	(5.6)	-19.10	(7.94)	15.80	(7.68)	24.1	(0.9)	58.1	(5.6)	-17.90	(8.00)	15.50	(7.70)
16	23.8	(1.0)	61.6	(5.2)	-19.90	(6.79)	18.20	(7.86)	24.3	(1.2)	60.3	(5.3)	-19.00	(6.04)	17.80	(7.72)
17	23.1	(1.2)	60.9	(6.0)	-21.20	(6.56)	19.40	(7.87)	23.6	(1.0)	59.6	(5.5)	-19.00	(4.29)	19.90	(8.12)
18	22.7	(2.0)	59.5	(5.1)	-19.40	(5.40)	21.30	(7.27)	23.4	(1.9)	58.1	(4.7)	-17.00	(4.25)	21.40	(7.54)
19	23.4	(2.3)	59.0	(6.6)	-20.70	(8.63)	24.90	(13.00)	23.9	(2.3)	57.6	(6.4)	-18.20	(7.20)	25.00	(13.20)
20	22.9	(2.0)	60.9	(4.9)	-20.80	(8.15)	25.10	(12.40)	23.3	(2.2)	58.9	(5.1)	-18.10	(7.29)	25.10	(12.80)
21	21.6	(0.9)	63.4	(5.4)	-19.30	(5.59)	20.20	(7.50)	22.1	(0.9)	61.8	(5.0)	-16.30	(5.04)	19.90	(7.81)
22	20.5	(0.6)	59.7	(6.1)	-18.50	(6.40)	16.70	(4.50)	21.0	(0.6)	59.5	(5.0)	-15.40	(5.84)	16.00	(5.61)
23	20.1	(0.8)	53.6	(7.4)	-18.90	(6.78)	17.50	(6.60)	20.6	(0.9)	54.1	(6.5)	-16.00	(6.44)	17.50	(7.10)
24	21.3	(1.6)	57.4	(7.3)	-18.60	(7.37)	19.50	(9.07)	21.8	(1.6)	56.8	(6.6)	-16.30	(6.90)	19.50	(9.29)
25	22.1	(1.9)	58.2	(7.4)	-18.30	(6.13)	22.70	(10.60)	22.6	(1.9)	57.7	(6.8)	-16.10	(5.56)	22.40	(10.70)
26	23.0	(2.3)	56.2	(10.1)	-23.30	(8.04)	28.30	(13.40)	23.2	(2.1)	55.1	(9.7)	-19.80	(6.85)	29.10	(14.40)
27	21.4	(4.0)	59.6	(9.8)	-9.76	(9.88)	17.30	(17.50)	22.1	(3.2)	54.1	(9.5)	-22.20	(6.74)	32.70	(16.20)
28	21.7	(4.2)	62.6	(13.1)	-13.90	(15.50)	31.00	(33.00)	18.0	(5.5)	63.9	(15.5)	-26.20	(6.87)	71.50	(4.87)
29	13.9	(3.9)	51.7	(20.6)	-38.20	(6.82)	63.70	(5.03)	13.5	(3.9)	51.3	(19.5)	-31.40	(2.51)	70.20	(1.31)
30	14.2	(5.9)	74.8	(14.5)	-9.70	(18.80)	15.50	(23.70)	13.5	(5.2)	72.5	(14.0)	-9.56	(15.60)	22.00	(30.50)
31	18.6	(2.9)	59.0	(14.4)	-4.58	(4.49)	10.80	(7.54)	17.6	(2.7)	59.3	(15.1)	-1.58	(1.97)	10.60	(7.75)
Mean	23.1		58.4		-16.80		16.60		23.0		57.5		-16.30		18.70	
n	31		31		31		31		31		31		31		31	
SD	3.2		4.3		5.59		10.90		3.4		4.1		4.85		15.40	
Min	13.9		51.7		-38.20		6.39		13.5		51.3		-31.40		5.82	
Max	27.5		74.8		-4.58		63.70		27.2		72.5		-1.58		71.50	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for April, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	18.7	(4.3)	61.3	(7.7)	-5.14	(5.08)	7.22	(7.99)	18.2	(4.3)	58.4	(8.8)	-2.69	(2.59)	7.65	(8.45)
2	18.7	(3.3)	60.5	(12.3)	-12.30	(9.40)	9.90	(6.99)	18.3	(3.2)	59.1	(11.8)	-11.10	(8.51)	10.20	(7.19)
3	14.0	(3.9)	49.8	(15.8)	-19.60	(2.73)	15.10	(0.29)	13.6	(3.8)	48.7	(13.6)	-17.70	(1.72)	15.50	(0.23)
4	13.6	(5.3)	45.1	(13.3)	-18.20	(1.10)	15.10	(0.27)	13.1	(5.3)	45.1	(11.6)	-17.60	(0.92)	15.40	(0.32)
5	15.9	(6.9)	44.8	(17.0)	-17.70	(0.95)	15.00	(0.45)	15.4	(6.8)	44.9	(14.5)	-18.20	(0.80)	15.10	(0.38)
6	18.1	(6.9)	43.8	(14.4)	-18.10	(0.93)	14.80	(0.44)	17.5	(6.9)	44.4	(12.3)	-20.00	(8.56)	17.90	(8.78)
7	16.3	(3.6)	55.7	(6.9)	-8.25	(11.00)	17.20	(21.90)	14.7	(2.8)	58.5	(7.9)	-12.40	(13.20)	22.70	(21.80)
8	20.6	(4.5)	57.2	(3.2)	-1.85	(3.52)	0.96	(2.48)	19.8	(4.9)	60.2	(3.3)	-1.72	(5.06)	0.85	(1.58)
9	21.7	(1.2)	58.9	(1.5)	-2.00	(3.75)	0.89	(1.80)	21.4	(1.2)	60.0	(2.0)	-2.11	(5.66)	0.83	(1.56)
10	21.7	(2.2)	59.6	(3.5)	-2.23	(4.39)	0.88	(1.47)	21.2	(2.2)	60.2	(4.1)	-2.67	(6.04)	0.82	(1.59)
11	22.2	(3.4)	62.1	(5.4)	-2.24	(4.19)	0.87	(1.19)	21.8	(3.3)	63.4	(6.6)	-2.72	(6.54)	0.83	(1.66)
12	24.3	(4.2)	65.4	(7.3)	-2.68	(5.11)	1.03	(1.40)	23.9	(4.2)	66.3	(9.4)	-3.54	(8.43)	1.07	(2.01)
13	24.0	(3.0)	69.1	(5.1)	-3.02	(5.13)	1.10	(1.41)	23.6	(3.0)	69.6	(6.3)	-3.56	(8.70)	1.05	(2.06)
14	21.4	(1.8)	62.3	(10.7)	-6.06	(6.65)	1.13	(1.79)	20.9	(2.0)	63.0	(10.7)	-6.96	(7.97)	1.12	(2.19)
15	21.7	(2.7)	62.3	(7.8)	-4.41	(7.50)	1.19	(2.25)	21.3	(2.8)	61.9	(8.9)	-5.00	(7.74)	1.21	(2.31)
16	23.0	(3.2)	66.8	(9.0)	-4.86	(8.77)	1.52	(2.43)	22.8	(3.3)	65.2	(9.8)	-4.95	(8.07)	1.59	(2.34)
17	24.8	(3.8)	63.7	(11.9)	-7.33	(10.70)	2.22	(2.82)	24.7	(3.8)	61.8	(12.5)	-7.12	(10.00)	2.31	(2.81)
18	28.6	(4.5)	56.5	(13.1)	-11.10	(10.70)	3.88	(3.50)	28.2	(4.3)	55.2	(12.6)	-10.10	(10.00)	3.93	(3.55)
19	32.0	(0.9)	47.4	(8.1)	-13.30	(12.20)	8.08	(8.20)	31.0	(1.3)	47.5	(8.4)	-13.60	(12.50)	8.36	(8.28)
20	31.8	(1.4)	47.4	(6.8)	-14.00	(13.40)	9.41	(8.46)	31.3	(1.8)	47.1	(6.7)	-13.60	(13.20)	9.31	(8.46)
21	31.7	(1.7)	48.4	(8.4)	-12.80	(14.20)	9.78	(8.84)	31.6	(1.8)	47.7	(7.4)	-12.00	(12.90)	9.80	(8.81)
22	31.4	(1.6)	43.7	(8.0)	-12.70	(13.70)	11.00	(9.61)	31.3	(1.9)	43.0	(6.9)	-13.70	(11.90)	11.50	(8.65)
23	30.0	(0.5)	47.5	(4.6)	-12.50	(12.40)	4.96	(4.31)	29.7	(0.4)	44.6	(3.7)	-14.50	(11.70)	5.89	(4.42)
24	29.5	(0.5)	43.8	(4.2)	-9.81	(10.60)	3.92	(3.61)	29.2	(0.4)	42.7	(4.0)	-9.60	(11.10)	3.89	(4.00)
25	29.0	(0.5)	47.3	(4.2)	-12.90	(11.90)	4.96	(3.90)	28.7	(0.5)	45.7	(4.3)	-12.70	(12.10)	5.09	(4.30)
26	28.5	(0.4)	49.6	(6.4)	-13.90	(12.50)	5.50	(4.43)	28.3	(0.4)	47.0	(5.4)	-13.40	(12.10)	5.76	(4.82)
27	28.3	(0.5)	49.9	(5.7)	-14.50	(12.20)	5.63	(4.32)	28.0	(0.4)	47.4	(4.5)	-14.00	(12.10)	5.82	(4.57)
28	27.8	(0.5)	51.6	(4.5)	-13.30	(12.00)	5.06	(4.04)	27.5	(0.4)	48.2	(4.3)	-12.50	(11.80)	5.04	(4.29)
29	27.8	(0.5)	51.1	(5.9)	-15.10	(11.90)	5.95	(4.30)	27.5	(0.6)	47.0	(5.0)	-14.10	(11.80)	6.08	(4.80)
30	27.6	(0.6)	51.0	(6.8)	-18.80	(13.20)	7.40	(4.84)	27.6	(0.6)	48.6	(5.5)	-16.50	(11.70)	7.31	(5.06)
Mean	24.2		54.1		-10.40		6.38		23.7		53.4		-10.40		6.80	
n	30		30		30		30		30		30		30		30	
SD	5.5		7.6		5.64		5.04		5.6		8.2		5.47		5.75	
Min	13.6		43.7		-19.60		0.87		13.1		42.7		-20.00		0.82	
Max	32.0		69.1		-1.85		17.20		31.6		69.6		-1.72		22.70	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for May, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	27.3	(0.4)	62.7	(5.9)	-17.90	(11.10)	6.75	(3.91)	27.2	(0.5)	59.3	(5.4)	-16.20	(11.20)	6.47	(4.11)
2	27.1	(0.3)	66.2	(4.1)	-16.30	(12.60)	7.27	(5.20)	27.5	(0.5)	62.5	(3.5)	-14.70	(12.30)	6.96	(5.35)
3	27.0	(0.4)	66.2	(2.6)	-21.20	(13.30)	9.67	(5.31)	27.5	(0.5)	62.5	(2.2)	-18.60	(11.40)	9.49	(5.32)
4	27.2	(0.7)	58.0	(7.5)	-27.10	(13.60)	13.50	(6.56)	27.3	(0.8)	55.7	(7.0)	-24.30	(12.20)	13.50	(7.02)
5	26.9	(1.0)	62.8	(5.7)	-20.90	(9.80)	18.60	(11.30)	27.6	(0.9)	59.0	(5.4)	-17.90	(9.39)	17.90	(11.70)
6	27.0	(1.3)	61.6	(5.8)	-17.80	(8.18)	20.20	(13.10)	27.5	(1.4)	57.8	(5.6)	-14.80	(7.97)	20.10	(13.70)
7	26.1	(1.0)	57.2	(10.5)	-16.00	(7.30)	18.50	(12.30)	26.7	(1.1)	54.3	(9.1)	-13.40	(6.59)	18.50	(12.40)
8	26.3	(1.4)	51.5	(9.5)	-19.00	(8.01)	21.10	(13.30)	26.8	(1.5)	49.7	(8.6)	-15.50	(7.53)	21.20	(14.00)
9	26.7	(2.1)	49.7	(9.7)	-22.70	(10.40)	26.10	(17.00)	27.1	(2.0)	48.2	(8.7)	-20.00	(10.80)	26.00	(17.10)
10	26.5	(2.3)	49.2	(7.4)	-23.90	(9.51)	28.30	(16.40)	27.1	(2.1)	48.3	(7.3)	-21.10	(10.00)	27.90	(16.60)
11	26.1	(2.0)	48.5	(6.9)	-24.00	(9.82)	27.00	(16.40)	26.6	(2.1)	46.9	(6.7)	-20.50	(10.30)	26.90	(16.90)
12	25.1	(1.8)	47.7	(8.9)	-23.00	(8.16)	25.50	(15.10)	25.7	(1.8)	46.5	(8.2)	-19.50	(8.63)	25.30	(15.60)
13	25.1	(2.0)	47.9	(8.9)	-25.50	(8.49)	30.00	(15.60)	25.9	(2.1)	46.3	(8.5)	-22.20	(9.50)	29.70	(16.40)
14	25.0	(2.1)	54.4	(5.7)	-26.60	(7.82)	31.60	(14.70)	25.7	(2.1)	51.7	(5.5)	-22.90	(9.25)	31.10	(15.90)
15	24.8	(1.9)	63.9	(3.8)	-28.80	(7.57)	36.20	(12.90)	25.7	(1.6)	59.2	(3.6)	-26.40	(9.03)	35.10	(14.00)
16	25.5	(2.2)	65.7	(5.1)	-35.70	(9.73)	43.60	(10.80)	26.1	(1.9)	61.2	(4.4)	-33.00	(10.10)	42.90	(12.50)
17	26.2	(1.8)	66.1	(4.4)	-38.00	(9.78)	48.00	(5.70)	26.6	(1.7)	61.6	(3.9)	-36.20	(9.69)	49.00	(6.50)
18	25.4	(1.4)	61.7	(6.6)	-38.70	(8.26)	48.80	(5.65)	25.9	(1.3)	58.0	(5.9)	-35.90	(9.39)	49.90	(6.89)
19	23.4	(1.9)	59.5	(8.7)	-28.10	(10.40)	42.20	(6.73)	24.1	(1.9)	55.4	(7.1)	-28.00	(9.22)	41.40	(8.49)
20	23.0	(2.3)	48.7	(4.2)	-29.50	(7.63)	37.80	(10.80)	23.8	(2.0)	47.2	(3.7)	-27.70	(8.55)	36.70	(12.30)
21	23.2	(2.2)	55.4	(5.4)	-29.70	(8.42)	38.60	(9.99)	24.0	(1.9)	52.2	(4.5)	-27.90	(9.10)	38.10	(11.40)
22	23.5	(2.4)	60.9	(3.7)	-30.30	(8.36)	39.10	(9.41)	24.2	(2.1)	56.6	(3.2)	-28.50	(8.86)	38.30	(10.80)
23	22.5	(2.5)	62.0	(4.3)	-28.00	(8.42)	34.80	(11.30)	23.2	(2.4)	57.4	(4.1)	-25.80	(9.03)	34.60	(11.60)
24	22.1	(2.8)	60.7	(5.9)	-27.60	(8.17)	33.30	(11.70)	22.6	(2.6)	57.0	(5.3)	-25.40	(8.76)	33.70	(11.70)
25	22.7	(3.0)	63.6	(5.0)	-29.60	(8.22)	35.70	(11.10)	23.2	(3.0)	59.2	(4.7)	-27.20	(9.13)	36.10	(11.10)
26	24.2	(2.5)	62.4	(4.8)	-39.20	(11.20)	43.80	(10.80)	24.4	(1.9)	59.7	(4.4)	-36.00	(11.90)	44.50	(12.50)
27	27.5	(4.0)	52.7	(6.1)	-20.70	(12.20)	36.50	(21.80)	26.7	(3.6)	53.8	(4.9)	-25.20	(12.70)	37.80	(21.20)
28	27.4	(4.8)	47.8	(7.7)	-18.90	(11.50)	19.60	(15.10)	27.1	(4.8)	47.1	(7.0)	-17.60	(8.34)	21.20	(19.00)
29	25.6	(4.4)	52.3	(6.2)	-17.20	(9.39)	8.78	(2.31)	25.2	(4.4)	51.2	(6.1)	-11.70	(9.04)	9.36	(2.50)
30	24.5	(4.3)	56.0	(6.3)	-12.00	(0.59)	7.48	(0.16)	24.1	(4.3)	55.1	(6.2)	-6.88	(2.11)	7.97	(0.11)
31	24.1	(4.4)	54.0	(7.7)	-11.80	(1.24)	7.50	(0.13)	23.8	(4.4)	53.3	(7.5)	-6.98	(1.80)	7.96	(0.14)
Mean	25.3		57.3		-24.70		27.30		25.7		54.6		-22.20		27.30	
n	31		31		31		31		31		31		31		31	
SD	1.6		6.3		7.20		12.90		1.5		5.1		7.66		12.90	
Min	22.1		47.7		-39.20		6.75		22.6		46.3		-36.20		6.47	
Max	27.5		66.2		-11.80		48.80		27.6		62.5		-6.88		49.90	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for June, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	22.8	(4.5)	56.5	(7.9)	-10.80	(4.49)	18.00	(16.90)	22.2	(4.4)	55.9	(8.5)	-18.80	(10.70)	23.30	(17.70)
2																
3																
4																
5	26.0	(2.7)	59.8	(4.5)	-2.67	(6.86)	0.96	(1.85)	25.9	(2.7)	56.4	(4.6)	-2.44	(5.74)	1.01	(1.49)
6	26.7	(3.4)	59.4	(8.8)	-3.88	(8.25)	1.24	(2.19)	26.5	(3.6)	57.9	(8.7)	-3.58	(6.41)	1.21	(1.69)
7	27.3	(3.6)	56.7	(10.8)	-7.41	(11.20)	2.09	(2.84)	27.2	(3.7)	56.8	(11.1)	-6.19	(9.84)	1.85	(2.57)
8	27.1	(3.3)	54.5	(10.1)	-6.22	(8.50)	2.49	(2.95)	27.2	(3.3)	54.7	(10.8)	-6.87	(9.24)	2.31	(2.83)
9	26.8	(3.1)	55.7	(8.6)	-4.86	(6.76)	2.16	(2.59)	26.7	(3.1)	56.5	(9.4)	-5.77	(7.60)	2.12	(2.52)
10	27.0	(2.5)	57.6	(8.2)	-5.88	(7.59)	2.56	(2.83)	27.1	(2.6)	57.8	(9.2)	-6.74	(8.12)	2.48	(2.63)
11	26.9	(2.8)	58.4	(9.5)	-7.22	(8.52)	3.06	(3.13)	27.0	(2.9)	58.4	(10.7)	-8.23	(8.96)	3.01	(2.89)
12	28.0	(3.4)	55.3	(10.6)	-6.95	(7.64)	3.24	(3.10)	28.0	(3.2)	55.3	(11.1)	-7.09	(7.53)	3.13	(3.00)
13	31.1	(0.4)	52.5	(3.4)	-7.15	(7.73)	3.73	(3.43)	30.9	(0.4)	52.8	(4.4)	-6.10	(7.00)	3.23	(3.07)
14	30.6	(0.6)	48.4	(5.0)	-6.47	(7.86)	4.44	(4.46)	30.5	(0.4)	48.3	(5.2)	-5.11	(6.95)	3.72	(4.23)
15	29.9	(0.5)	51.3	(4.2)	-6.58	(7.90)	4.25	(4.31)	30.0	(0.5)	50.3	(3.2)	-4.76	(7.24)	3.49	(4.27)
16	29.7	(0.9)	50.6	(7.2)	-11.20	(10.30)	8.98	(8.28)	29.9	(0.8)	49.3	(6.1)	-9.47	(9.45)	8.34	(7.97)
17	29.6	(1.0)	50.3	(5.2)	-12.90	(10.40)	9.92	(8.29)	29.8	(1.0)	49.3	(4.3)	-11.00	(9.93)	9.36	(8.26)
18	29.7	(1.8)	52.1	(5.2)	-9.77	(6.64)	17.40	(15.00)	30.2	(1.7)	50.5	(4.6)	-8.73	(6.97)	16.50	(15.00)
19	28.9	(1.9)	47.3	(7.9)	-10.30	(7.13)	18.20	(15.00)	29.6	(2.2)	45.8	(7.0)	-9.63	(7.46)	16.40	(14.30)
20	27.7	(1.2)	48.7	(6.3)	-10.60	(7.71)	12.90	(11.40)	28.0	(1.3)	47.4	(5.0)	-9.30	(7.80)	12.10	(11.10)
21	27.2	(0.8)	50.7	(5.6)	-13.00	(9.13)	12.00	(10.00)	27.5	(0.9)	49.1	(4.3)	-12.10	(9.42)	11.70	(9.67)
22	27.9	(1.7)	47.1	(10.8)	-11.10	(7.34)	17.40	(14.20)	28.1	(1.7)	46.4	(8.5)	-9.97	(7.07)	17.00	(14.30)
23	28.7	(2.1)	46.9	(7.4)	-12.00	(6.41)	22.70	(14.30)	28.7	(1.9)	46.6	(5.9)	-10.90	(5.24)	22.30	(14.30)
24	28.3	(1.9)	49.3	(4.1)	-12.20	(4.62)	23.00	(13.80)	28.7	(1.8)	48.4	(3.8)	-11.40	(5.23)	22.50	(14.30)
25	27.7	(1.7)	49.0	(5.1)	-10.80	(5.43)	19.30	(13.50)	28.0	(1.9)	48.8	(4.9)	-11.00	(6.31)	18.80	(13.50)
26	27.5	(1.5)	49.0	(4.9)	-11.40	(4.98)	20.90	(13.60)	27.8	(1.8)	48.4	(4.9)	-11.60	(5.48)	20.40	(13.60)
27	28.4	(1.6)	55.8	(3.4)	-14.10	(4.09)	31.20	(15.20)	28.7	(1.8)	53.9	(3.6)	-16.00	(4.83)	30.20	(14.90)
28	28.6	(1.6)	56.7	(6.7)	-14.40	(2.46)	35.10	(11.10)	29.0	(1.6)	54.6	(5.3)	-15.90	(2.77)	33.60	(11.60)
29	28.4	(1.6)	50.2	(6.6)	-14.40	(2.73)	35.90	(11.10)	28.9	(1.7)	49.1	(5.4)	-15.80	(3.35)	34.30	(11.70)
30	27.4	(1.7)	51.2	(4.3)	-14.00	(3.43)	30.40	(12.80)	28.0	(1.7)	50.0	(3.6)	-15.30	(3.16)	29.00	(12.50)
Mean	28.0		52.6		-9.58		13.50		28.2		51.8		-9.62		13.10	
n	27		27		27		27		27		27		27		27	
SD	1.6		3.9		3.36		10.90		1.7		4.0		4.08		10.70	
Min	22.8		46.9		-14.40		0.96		22.2		45.8		-18.80		1.01	
Max	31.1		59.8		-2.67		35.90		30.9		58.4		-2.44		34.30	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for July, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	26.6	(1.2)	57.3	(3.3)	-14.10	(2.72)	30.90	(12.80)	27.3	(1.4)	54.9	(2.4)	-15.20	(3.91)	29.70	(13.20)
2	27.2	(2.0)	53.5	(3.3)	-21.40	(8.15)	34.40	(15.50)	27.8	(2.1)	51.6	(3.3)	-21.30	(7.99)	33.90	(15.80)
3	26.8	(2.2)	53.0	(3.5)	-23.10	(6.98)	35.10	(15.60)	27.5	(2.1)	50.7	(3.6)	-22.50	(6.86)	34.50	(15.90)
4	26.3	(2.0)	54.6	(2.5)	-22.40	(6.78)	34.00	(15.20)	27.0	(2.0)	52.1	(2.4)	-21.40	(6.86)	33.40	(15.60)
5	25.7	(2.0)	57.4	(4.0)	-21.90	(6.57)	32.10	(16.30)	26.3	(2.1)	54.2	(4.0)	-21.00	(6.92)	31.90	(16.50)
6	25.0	(2.0)	51.4	(7.4)	-24.80	(10.20)	34.90	(19.70)	25.7	(2.1)	49.0	(7.0)	-23.80	(10.10)	34.50	(20.40)
7	24.7	(1.8)	50.3	(4.9)	-26.50	(10.70)	38.70	(19.00)	25.5	(1.8)	47.4	(4.9)	-25.80	(10.30)	37.80	(19.70)
8	24.3	(1.7)	55.0	(4.5)	-29.00	(9.27)	41.80	(17.80)	25.1	(1.7)	51.8	(3.8)	-27.70	(9.60)	41.10	(18.80)
9	23.7	(1.6)	57.6	(3.8)	-29.10	(9.63)	42.90	(16.90)	24.5	(1.5)	53.9	(3.0)	-28.50	(9.51)	41.70	(18.80)
10	23.4	(1.6)	57.5	(3.2)	-30.10	(9.66)	45.30	(16.90)	24.2	(1.6)	53.9	(3.2)	-28.40	(10.40)	44.70	(17.90)
11	23.6	(1.2)	57.7	(5.6)	-32.90	(9.73)	53.80	(7.50)	24.4	(1.1)	53.6	(4.7)	-32.20	(8.82)	52.50	(11.20)
12	23.2	(1.3)	55.6	(5.2)	-34.50	(6.93)	54.50	(5.68)	23.9	(1.2)	52.5	(4.2)	-31.70	(9.53)	53.60	(8.31)
13	23.3	(2.2)	60.5	(5.0)	-34.30	(8.67)	52.10	(9.89)	23.9	(1.9)	56.7	(4.0)	-33.70	(7.61)	51.30	(12.70)
14	25.3	(2.6)	61.5	(4.1)	-38.40	(1.91)	56.60	(1.52)	25.6	(2.5)	58.2	(3.6)	-36.60	(4.21)	55.80	(3.32)
15	26.2	(2.4)	60.3	(4.5)	-38.90	(1.07)	56.60	(0.98)	26.3	(2.3)	57.6	(4.2)	-38.80	(1.07)	57.60	(0.97)
16	25.9	(2.5)	60.4	(4.8)	-38.60	(1.48)	56.80	(1.14)	25.8	(2.5)	57.7	(4.6)	-38.10	(1.97)	57.70	(1.68)
17	26.2	(2.4)	59.7	(5.7)	-38.90	(0.89)	56.80	(0.74)	26.1	(2.4)	57.0	(5.7)	-38.70	(0.79)	57.90	(0.67)
18	26.6	(2.6)	60.3	(6.4)	-39.40	(0.92)	56.20	(0.71)	26.4	(2.5)	57.7	(6.6)	-39.20	(0.94)	57.30	(0.74)
19	26.9	(3.1)	65.1	(3.3)	-39.30	(0.70)	56.00	(0.77)	26.7	(2.9)	62.3	(3.2)	-39.10	(0.71)	57.00	(0.79)
20	25.2	(2.5)	61.6	(3.6)	-39.60	(1.06)	56.50	(0.80)	25.1	(2.5)	59.0	(3.4)	-39.10	(0.87)	57.70	(0.69)
21	26.5	(4.9)	54.1	(7.8)	-28.20	(13.40)	37.00	(25.50)	24.2	(3.7)	57.9	(8.3)	-47.00	(32.30)	40.90	(22.80)
22	27.0	(4.3)	53.2	(8.6)	-17.20	(16.80)	22.00	(24.60)	24.9	(5.6)	56.4	(11.3)	-35.10	(35.00)	24.60	(25.90)
23	26.9	(5.5)	50.1	(8.7)	-18.70	(5.32)	14.20	(1.11)	26.7	(5.6)	49.7	(8.3)	-28.70	(5.39)	13.10	(0.85)
24																
25																
26																
27																
28	29.9	(3.9)	49.1	(5.2)	-3.91	(5.56)	3.92	(4.81)	29.7	(4.2)	48.3	(5.7)	-4.96	(7.02)	4.02	(5.00)
29	28.5	(4.1)	52.5	(4.9)	-4.44	(6.51)	2.74	(3.43)	28.1	(4.4)	51.6	(5.4)	-5.15	(7.82)	2.90	(3.84)
30	28.7	(3.6)	54.0	(5.9)	-7.06	(8.59)	3.50	(3.82)	28.9	(3.6)	51.6	(5.8)	-6.74	(8.82)	3.57	(4.05)
31	28.9	(3.6)	52.4	(7.2)	-7.01	(8.77)	3.58	(4.07)	29.3	(3.5)	51.1	(7.7)	-7.55	(9.60)	3.73	(4.20)
Mean	26.0		56.1		-26.10		37.50		26.2		54.0		-27.30		37.60	
n	27		27		27		27		27		27		27		27	
SD	1.8		4.0		11.30		18.20		1.6		3.6		11.40		18.30	
Min	23.2		49.1		-39.60		2.74		23.9		47.4		-47.00		2.90	
Max	29.9		65.1		-3.91		56.80		29.7		62.3		-4.96		57.90	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for August, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	29.3	(3.6)	49.3	(8.2)	-7.11	(8.20)	4.00	(4.27)	29.5	(3.5)	48.8	(8.7)	-7.13	(8.91)	4.16	(4.63)
2	28.1	(3.3)	50.8	(7.8)	-8.37	(9.14)	4.64	(5.20)	28.6	(3.2)	50.0	(8.2)	-8.38	(10.10)	4.37	(5.15)
3	27.5	(3.4)	54.0	(8.5)	-8.71	(9.33)	4.37	(4.81)	27.9	(3.3)	53.3	(8.6)	-9.87	(11.20)	4.21	(4.55)
4	27.9	(3.8)	52.5	(10.1)	-8.52	(9.22)			27.9	(3.9)	52.7	(11.0)	-9.36	(10.60)		
5	28.7	(2.8)	50.9	(8.2)	-6.84	(6.89)			28.4	(3.1)	51.0	(9.1)	-7.87	(8.12)		
6	28.0	(2.5)	54.9	(7.4)	-5.71	(6.88)			27.8	(2.8)	54.6	(8.2)	-6.08	(7.04)		
7	28.0	(2.7)	53.8	(7.9)	-6.79	(7.28)			27.9	(2.8)	53.7	(8.8)	-7.10	(7.50)		
8	29.4	(2.5)	51.0	(7.9)	-5.69	(6.23)	9.91	(9.86)	29.5	(2.6)	50.0	(8.3)	-5.58	(6.57)	9.93	(9.93)
9	31.1	(2.2)	43.7	(7.1)	-6.88	(5.95)	13.30	(11.70)	31.4	(2.1)	42.2	(6.4)	-6.81	(6.23)	13.30	(11.70)
10	31.1	(2.2)	46.4	(5.1)	-8.21	(6.79)	15.00	(12.10)	31.3	(2.0)	44.6	(4.4)	-7.68	(6.30)	14.90	(12.00)
11	30.7	(1.7)	47.3	(2.6)	-9.33	(7.00)	14.30	(11.30)	30.7	(1.8)	45.9	(2.7)	-8.61	(6.16)	14.50	(11.20)
12	30.3	(1.7)	47.6	(3.4)	-9.55	(6.91)	14.60	(11.30)	30.5	(1.7)	46.3	(3.2)	-8.62	(5.82)	14.70	(11.20)
13	29.9	(1.8)	47.5	(3.9)	-10.70	(6.63)	18.00	(14.60)	30.1	(1.8)	46.5	(3.8)	-9.70	(6.02)	18.00	(14.70)
14	28.7	(1.5)	42.4	(7.1)	-10.10	(7.19)	13.40	(11.30)	28.9	(1.5)	41.7	(6.0)	-9.18	(6.68)	13.50	(11.40)
15	28.7	(2.0)	46.6	(5.4)	-10.50	(6.81)	16.50	(14.00)	29.0	(1.9)	45.4	(4.7)	-9.56	(6.54)	16.50	(13.90)
16	28.6	(1.7)	44.9	(5.8)	-11.20	(6.54)	17.70	(14.20)	28.8	(1.7)	44.0	(5.0)	-10.60	(5.94)	17.70	(13.90)
17	28.5	(1.7)	48.9	(5.1)	-11.50	(6.11)	19.70	(14.30)	29.1	(1.7)	46.8	(4.4)	-10.90	(5.92)	19.50	(14.30)
18	28.2	(1.5)	54.7	(3.9)	-11.80	(6.40)	19.50	(14.00)	28.8	(1.5)	51.3	(3.1)	-11.00	(6.36)	19.30	(14.20)
19	27.8	(1.4)	55.3	(3.1)	-12.50	(5.79)	20.30	(13.80)	28.6	(1.3)	51.8	(2.5)	-11.50	(5.86)	19.80	(13.70)
20	27.4	(1.4)	57.2	(3.4)	-12.00	(5.89)	18.40	(13.60)	28.0	(1.3)	53.8	(2.9)	-10.80	(5.52)	18.10	(13.70)
21	27.6	(1.5)	61.4	(4.3)	-13.60	(5.47)	23.20	(13.20)	28.3	(1.4)	57.1	(3.3)	-12.50	(5.27)	23.70	(13.90)
22	27.4	(1.1)	59.1	(5.6)	-13.40	(3.75)	30.70	(11.10)	28.0	(1.0)	55.2	(5.0)	-13.90	(3.88)	30.40	(11.20)
23	26.8	(1.3)	56.7	(4.3)	-13.40	(4.86)	24.00	(12.50)	27.5	(1.2)	53.4	(3.6)	-12.80	(4.48)	23.60	(12.50)
24	26.2	(1.4)	51.4	(4.0)	-11.90	(6.03)	22.30	(13.90)	27.0	(1.3)	48.7	(3.6)	-11.20	(5.60)	21.90	(13.70)
25	26.3	(1.3)	54.2	(2.9)	-12.90	(5.84)	26.00	(15.60)	26.9	(1.2)	51.3	(2.6)	-12.50	(5.79)	25.20	(15.70)
26	26.1	(1.3)	55.8	(3.1)	-13.80	(5.40)	28.00	(15.40)	26.7	(1.2)	53.1	(2.6)	-13.30	(5.56)	27.20	(15.60)
27	25.9	(1.3)	53.0	(5.1)	-14.70	(4.17)	30.00	(14.20)	26.0	(1.4)	51.0	(4.4)	-14.50	(4.49)	29.50	(14.90)
28	26.2	(1.7)	54.1	(3.9)	-24.20	(10.10)	42.60	(20.90)	26.2	(1.7)	52.2	(3.5)	-24.60	(10.50)	42.80	(21.10)
29	26.6	(2.2)	59.0	(5.5)	-26.20	(8.86)	46.20	(19.80)	26.5	(1.9)	57.9	(5.7)	-26.00	(9.89)	45.60	(20.10)
30	25.8	(1.5)	53.5	(5.6)	-26.10	(8.25)	48.30	(16.20)	26.0	(1.3)	51.7	(5.3)	-26.10	(8.98)	46.50	(18.00)
31	24.8	(1.4)	60.8	(3.0)	-24.00	(8.23)	43.20	(19.00)	25.0	(1.3)	58.3	(2.9)	-23.50	(9.53)	42.30	(19.80)
Mean	28.0		52.2		-12.10		21.80		28.3		50.5		-11.80		21.50	
n	31		31		31		27		31		31		31		27	
SD	1.6		4.9		5.59		11.90		1.6		4.3		5.56		11.60	
Min	24.8		42.4		-26.20		4.00		25.0		41.7		-26.10		4.16	
Max	31.1		61.4		-5.69		48.30		31.4		58.3		-5.58		46.50	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for September, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	24.9	(1.6)	65.4	(3.2)	-26.30	(7.97)	46.40	(17.60)	25.1	(1.4)	63.0	(3.2)	-26.20	(9.36)	45.70	(18.70)
2	25.2	(1.6)	62.5	(6.5)	-28.60	(8.34)	55.40	(10.70)	25.1	(1.4)	60.6	(6.7)	-29.20	(8.66)	54.20	(12.10)
3	24.8	(1.8)	60.2	(5.1)	-29.00	(7.66)	57.30	(7.85)	24.7	(1.6)	58.5	(5.5)	-29.00	(8.55)	56.40	(8.57)
4	23.3	(1.7)	55.5	(6.2)	-25.60	(9.25)	50.80	(13.00)	23.4	(1.5)	53.7	(6.0)	-26.30	(8.89)	49.50	(14.20)
5	23.0	(2.2)	66.9	(5.5)	-27.10	(7.80)	48.60	(17.30)	23.0	(2.0)	65.4	(6.6)	-26.90	(8.53)	48.00	(17.60)
6	22.4	(1.7)	63.0	(5.5)	-24.10	(10.60)	49.10	(15.20)	22.4	(1.6)	61.5	(5.5)	-23.90	(11.00)	47.60	(16.10)
7	22.0	(2.1)	66.1	(3.4)	-23.60	(11.60)	49.60	(13.80)	21.9	(2.1)	64.3	(3.4)	-23.50	(11.90)	48.90	(14.20)
8	22.0	(1.9)	63.5	(3.8)	-25.90	(10.90)	51.80	(12.90)	21.8	(1.9)	62.5	(4.0)	-26.00	(11.40)	50.80	(13.30)
9	22.9	(1.9)	64.2	(3.9)	-28.60	(9.73)	55.10	(10.60)	22.7	(1.7)	63.5	(4.5)	-28.50	(10.80)	54.00	(11.80)
10	23.5	(2.0)	64.2	(5.5)	-32.10	(6.99)	57.40	(7.17)	23.3	(2.0)	63.5	(5.4)	-31.80	(8.83)	55.40	(8.63)
11	24.7	(2.0)	64.6	(6.6)	-34.90	(1.64)	60.50	(1.62)	24.5	(2.0)	63.5	(6.8)	-35.90	(2.77)	59.70	(2.19)
12	23.6	(1.4)	66.8	(8.0)	-33.30	(4.42)	59.80	(4.57)	23.5	(1.3)	65.3	(8.7)	-34.00	(5.47)	59.20	(4.95)
13	21.7	(1.2)	70.0	(2.9)	-26.00	(11.80)	51.00	(13.70)	21.9	(1.2)	66.5	(2.9)	-26.50	(12.00)	50.50	(13.60)
14	21.8	(2.4)	69.2	(7.9)	-12.40	(9.12)	36.80	(14.20)	21.9	(1.9)	66.2	(5.8)	-12.70	(10.60)	41.80	(16.00)
15	21.7	(4.3)	74.3	(8.7)	-13.30	(6.11)	35.40	(26.40)	21.5	(4.4)	69.3	(10.0)	-4.47	(3.65)	35.40	(26.60)
16	21.9	(3.4)	77.6	(9.1)	-16.60	(13.10)	19.20	(19.20)	21.8	(3.5)	67.5	(7.4)	-7.66	(6.60)	21.40	(22.50)
17	23.9	(3.8)	66.4	(9.3)	-18.90	(12.70)	20.00	(11.90)	24.0	(4.3)	63.4	(10.4)	-16.60	(6.76)	24.00	(14.80)
18	25.9	(5.4)	58.2	(12.1)	-14.90	(10.60)	28.80	(13.50)	26.0	(5.4)	57.7	(10.9)	-21.90	(10.50)	14.00	(2.42)
19	26.2	(5.0)	53.8	(9.1)	-42.40	(19.90)	18.30	(13.30)	26.2	(4.7)	52.6	(9.8)	-30.50	(0.75)	12.90	(0.18)
20	25.7	(4.3)	57.6	(7.7)	-56.80	(1.10)	9.02	(0.14)	25.1	(4.4)	56.6	(8.1)	-30.60	(0.65)	13.00	(0.15)
21	26.4	(4.8)	54.2	(10.9)	-24.70	(27.80)	12.90	(3.32)	26.0	(5.0)	53.9	(10.6)	-30.30	(0.96)	12.90	(0.15)
22	27.2	(5.7)	48.1	(10.5)	-5.09	(7.31)	12.50	(12.60)	27.7	(6.3)	46.6	(11.4)	-15.30	(14.20)	18.70	(23.50)
23	27.7	(6.0)	42.2	(6.9)	-4.43	(6.12)	4.32	(5.43)	27.6	(6.0)	42.2	(7.0)	-4.26	(6.32)	4.29	(5.22)
24	27.8	(5.5)	40.5	(8.0)	-4.68	(6.74)	3.56	(4.29)	27.6	(5.4)	40.8	(7.3)	-4.32	(6.01)	3.53	(4.23)
25	27.4	(5.8)	42.0	(8.0)	-4.29	(7.24)	3.34	(4.40)	27.3	(5.7)	42.1	(7.4)	-4.71	(6.48)	3.48	(4.37)
26	30.1	(4.2)	41.9	(7.4)	-6.12	(7.84)	4.92	(5.45)	30.2	(4.3)	41.8	(7.5)	-8.82	(9.26)	4.83	(5.03)
27	30.2	(4.2)	45.5	(6.9)	-6.66	(7.59)	5.23	(5.63)	30.1	(4.4)	45.9	(8.0)	-9.81	(10.10)	5.05	(5.27)
28	28.6	(3.2)	46.4	(8.4)	-7.22	(9.17)	2.89	(3.08)	28.3	(3.1)	48.0	(9.4)	-8.97	(11.90)	2.98	(3.63)
29	25.7	(1.8)	49.7	(3.5)	-4.26	(6.12)	1.69	(2.08)	25.7	(2.2)	51.5	(4.1)	-4.82	(9.26)	1.61	(2.71)
30	24.2	(3.0)	53.4	(8.4)	-5.16	(6.69)	1.78	(2.20)	24.4	(2.9)	55.4	(8.9)	-5.63	(9.10)	1.70	(2.71)
Mean	24.9		58.5		-20.40		30.40		24.8		57.1		-19.60		30.10	
n	30		30		30		30		30		30		30		30	
SD	2.5		10.1		12.90		21.90		2.5		8.6		10.60		21.50	
Min	21.7		40.5		-56.80		1.69		21.5		40.8		-35.90		1.61	
Max	30.2		77.6		-4.26		60.50		30.2		69.3		-4.26		59.70	

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Table E3. Daily means (SD) of environmental parameters at Site CA1B for October, 2009.

Day	House 10								House 12							
	T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$		T, °C		RH, %		ΔP, Pa		Airflow, $dsm^3 s^{-1}$	
1	25.2	(4.2)	51.0	(11.1)	-6.10	(7.62)	2.49	(2.65)	25.4	(4.1)	53.0	(11.7)	-5.48	(7.90)	2.39	(2.81)
2	26.4	(3.7)	46.9	(12.9)	-8.33	(8.57)	3.75	(3.47)	26.4	(3.5)	48.6	(13.1)	-7.63	(8.09)	3.70	(3.50)
3	26.0	(2.6)	48.8	(6.9)	-6.78	(7.57)	2.88	(2.79)	26.2	(2.5)	49.9	(6.9)	-6.40	(7.21)	2.89	(2.88)
4	29.6	(4.1)	45.0	(7.8)	-5.27	(6.96)	2.61	(2.64)	29.1	(3.8)	45.7	(8.1)	-4.87	(6.49)	2.66	(2.72)
5	31.4	(0.9)	39.4	(3.0)	-4.57	(6.68)	2.92	(3.33)	31.0	(0.6)	40.5	(2.4)	-4.20	(6.40)	2.76	(3.43)
6	30.3	(0.5)	38.4	(2.5)	-6.36	(7.64)	4.22	(4.06)	30.1	(0.6)	38.7	(2.5)	-5.28	(6.82)	4.07	(4.34)
7	29.8	(0.6)	40.1	(5.1)	-7.14	(8.08)	4.85	(4.67)	29.7	(0.5)	40.4	(4.3)	-5.72	(7.07)	4.35	(4.44)
8	29.3	(0.5)	46.3	(4.5)	-8.07	(8.38)	5.25	(4.63)	29.4	(0.3)	44.6	(3.6)	-6.84	(7.20)	5.42	(4.76)
9	28.9	(0.5)	49.2	(4.8)	-8.07	(8.32)	5.65	(5.12)	29.1	(0.4)	47.0	(3.7)	-6.99	(7.45)	5.50	(4.87)
10	28.5	(0.6)	50.3	(5.4)	-8.75	(8.56)	6.25	(5.67)	28.6	(0.4)	47.6	(4.4)	-7.61	(7.62)	6.23	(5.46)
11	28.2	(0.5)	51.7	(2.7)	-7.95	(8.69)	5.76	(5.39)	28.1	(0.5)	49.6	(2.2)	-7.32	(8.39)	5.51	(5.72)
12	27.7	(0.5)	51.8	(2.1)	-8.72	(8.47)	6.29	(5.34)	27.5	(0.4)	50.6	(1.8)	-7.30	(8.01)	5.79	(5.70)
13	26.7	(0.7)	58.2	(4.2)	-7.31	(9.57)	5.88	(5.96)	26.6	(0.7)	57.5	(4.6)	-6.93	(8.19)	5.83	(5.40)
14																
15																
16																
17																
18																
19																
20																
21			59.2	(3.5)							56.6	(3.7)				
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Mean	28.3		48.3		-7.19		4.52		28.2		47.9		-6.35		4.39	
n	13		14		13		13		13		14		13		13	
SD	1.8		6.1		1.27		1.39		1.6		5.5		1.08		1.34	
Min	25.2		38.4		-8.75		2.49		25.4		38.7		-7.63		2.39	
Max	31.4		59.2		-4.57		6.29		31.0		57.5		-4.20		6.23	

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Table E4. Particulate matter concentrations.

Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for September, 2007.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29			308 (146)						
30			1050 (863)						
Avg			681						
n	0	0	2	0	0	0	0	0	0
SD			373						
Min			308						
Max			1050						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for October, 2007.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1			1740 (1130)						
2			1810 (1260)						
3			1710 (1250)						
4			1980 (1220)						
5			2110 (1100)						
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Avg			1870						
n	0	0	5	0	0	0	0	0	0
SD			151						
Min			1710						
Max			2110						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for November, 2007.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1									
2									
3									
4									
5									
6									
7									
8		270 (344)							
9		114 (115)							
10		99 (131)							
11	11.7 (7.5)	20 (31)							
12	21.5 (9.0)	45 (38)							
13	27.4 (10.2)	52 (32)							
14									
15	49.8 (19.9)	273 (277)							
16	12.7 (5.3)	151 (27)							
17	26.8 (25.9)	166 (27)							
18	24.3 (13.9)	163 (33)							
19	13.0 (6.1)	139 (57)							
20	23.5 (22.5)	264 (144)							
21	25.5 (10.8)	353 (168)	487 (219)						
22									
23									
24	44.5 (16.4)	434 (194)	542 (242)						
25	66.7 (15.8)	1880 (1670)	1960 (1680)						
26	65.4 (13.4)	2970 (2140)	3620 (2460)						
27	55.0 (20.4)	2390 (1610)	2730 (1860)						
28	48.1 (25.3)	2000 (1270)	2240 (1470)						
29	99.6 (19.7)	1760 (1080)	1960 (1230)						
30	44.5 (21.0)	1410 (893)	1570 (982)						
Avg	38.8	748	1890						
n	17	20	8	0	0	0	0	0	0
SD	23.0	913	981						
Min	11.7	20	487						
Max	99.6	2970	3620						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for December, 2007.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	23.0 (5.8)								
2	25.8 (14.2)	1480 (928)	1680 (945)						
3	30.9 (18.6)	1370 (787)	1650 (946)						
4	32.6 (18.0)	1300 (866)	1560 (958)						
5	25.4 (10.2)	1070 (623)	1390 (801)						
6	39.0 (20.4)	1020 (597)	1240 (717)						
7	23.5 (12.0)	1030 (636)	1180 (695)						
8	26.4 (10.3)	1240 (698)	1460 (828)						
9	24.6 (10.1)	1320 (810)	1680 (961)						
10									
11									
12							51.7 (23.1)	3370 (1970)	3900 (2400)
13							67.4 (25.4)	3390 (1930)	3610 (1940)
14							58.7 (28.7)	3340 (2000)	3700 (2180)
15							81.2 (21.0)	3270 (1820)	3390 (1840)
16							82.3 (41.5)	3180 (1730)	3150 (1840)
17							41.7 (25.3)	3080 (1600)	3870 (3900)
18							25.3 (26.4)	2810 (1320)	3290 (1680)
19									
20	35.8 (19.9)	1560 (788)	2000 (981)						
21	33.1 (13.0)	1960 (1040)	2490 (1210)						
22	37.6 (16.8)	1810 (956)	2330 (1300)						
23	41.3 (12.8)	1600 (845)	2020 (1030)						
24	56.7 (23.8)	1430 (707)	1790 (807)						
25	33.2 (12.4)	1420 (728)	1710 (863)						
26	51.9 (12.7)	1530 (763)	1520 (713)						
27	36.0 (13.6)	1660 (416)	1090 (453)						
28	20.9 (7.7)	1550 (566)	1370 (957)						
29	33.1 (13.8)	1750 (384)	1980 (451)						
30	45.5 (11.2)								
31	38.7 (22.6)								
Avg	34.0	1450	1670				58.3	3210	3560
n	21	18	18	0	0	0	7	7	7
SD	9.2	255	370				19.3	190	267
Min	20.9	1020	1090				25.3	2810	3150
Max	56.7	1960	2490				82.3	3390	3900

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for January, 2008.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	29.4 (14.8)								
2	44.0 (16.8)								
3	79.0 (109.0)								
4	12.5 (9.6)								
5	12.1 (7.8)								
6	8.2 (6.1)	115 (33)	51 (17)						
7	12.0 (6.1)	216 (106)	177 (219)						
8	18.2 (6.3)	208 (42)	188 (35)						
9	25.8 (12.1)		248 (89)						
10	32.3 (15.2)	182 (11)							
11	14.1 (7.1)	188 (30)	276 (32)						
12	23.0 (8.6)	211 (37)	259 (34)						
13	21.2 (5.2)	199 (25)	281 (47)						
14	28.9 (14.3)	269 (68)	353 (65)						
15	21.3 (8.0)	338 (107)	347 (108)						
16	23.4 (8.9)	446 (184)	412 (164)						
17	24.5 (8.2)	672 (359)	753 (482)						
18	45.1 (13.1)	864 (450)	1400 (787)						
19	52.0 (22.7)	902 (462)	1460 (785)						
20	32.8 (15.5)	1010 (509)	1560 (845)						
21	14.0 (6.0)	1060 (546)	1460 (781)						
22	11.8 (5.2)	856 (551)	1260 (914)						
23	14.2 (8.6)	988 (623)	1210 (797)						
24	7.9 (5.1)	1080 (728)	1310 (898)						
25	9.7 (5.1)	1050 (625)	1320 (800)						
26	17.2 (7.8)	1250 (673)	1570 (862)						
27	18.1 (14.7)	1200 (638)	1510 (810)						
28		1430 (721)	1690 (904)						
29	16.1 (6.3)	1540 (733)	1830 (937)						
30	21.0 (7.2)	1600 (826)	2120 (1120)						
31	19.7 (5.6)	1420 (743)	1550 (817)						
Avg	23.6	772	984						
n	30	25	25	0	0	0	0	0	0
SD	14.9	485	637						
Min	7.9	115	51						
Max	79.0	1600	2120						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for February, 2008.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1									
2									
3									
4									
5				13.6 (6.3)	136 (159)	153 (128)			
6				16.0 (7.2)	117 (57)	111 (47)			
7				15.2 (6.3)	116 (57)	122 (48)			
8				19.1 (7.2)	129 (65)	128 (64)			
9				32.9 (15.7)	133 (71)	124 (56)			
10				31.5 (11.7)	133 (70)	128 (60)			
11				26.1 (8.3)	127 (70)	122 (62)			
12				32.4 (12.4)	122 (68)	114 (60)			
13				17.4 (13.7)	118 (75)	115 (62)			
14				6.8 (3.8)	145 (80)	129 (68)			
15				15.1 (7.5)	144 (92)	139 (77)			
16				21.5 (7.7)	169 (74)	130 (55)			
17				23.5 (8.3)	132 (70)	125 (61)			
18				30.9 (11.5)	100 (56)	137 (53)			
19									
20	41.4 (24.1)								
21	24.4 (24.4)								
22	8.7 (7.0)								
23	10.2 (8.1)								
24	9.6 (6.0)								
25									
26		71 (78)	70 (62)						
27		53 (39)	61 (27)						
28		166 (195)	162 (203)						
29		199 (66)	167 (49)						
Avg	18.9	122	115	21.6	130	127			
n	5	4	4	14	14	14	0	0	0
SD	12.7	62	50	7.9	16	11			
Min	8.7	53	61	6.8	100	111			
Max	41.4	199	167	32.9	169	153			

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for March, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	10.6 (4.9)	242 (47)	234 (54)						
2	11.4 (5.9)	349 (58)	344 (63)						
3	28.0 (16.5)	385 (80)	397 (53)						
4	30.9 (8.4)	357 (51)	360 (55)						
5	21.1 (7.1)	384 (57)	355 (50)						
6	37.2 (14.4)	361 (64)	348 (59)						
7	40.0 (8.0)	380 (179)	414 (176)						
8	20.9 (12.1)	321 (193)	345 (215)						
9	25.8 (12.1)	767 (386)	618 (316)						
10	31.7 (12.7)	790 (436)	766 (425)						
11	28.2 (13.4)	839 (452)	948 (503)						
12	34.8 (12.5)	1060 (579)	1030 (549)						
13	19.5 (8.0)	901 (508)	909 (483)						
14	25.1 (13.8)	1120 (708)	1150 (700)						
15	21.4 (9.4)	1330 (828)	1230 (735)						
16	44.3 (42.1)	1670 (1110)	1800 (1160)						
17	26.1 (7.8)	1320 (944)	1410 (998)						
18	33.2 (14.7)	907 (358)	1010 (401)						
19	27.5 (13.8)	828 (328)	868 (313)						
20	29.9 (9.2)	859 (454)	823 (356)						
21	38.4 (14.7)	1180 (738)	1010 (583)						
22	38.3 (16.7)	1190 (885)	1000 (627)						
23	79.4 (66.3)	1040 (800)							
24									
25	34.3 (14.0)								
26	38.3 (14.1)	1380 (685)	1360 (714)						
27									
28	39.4 (14.8)	1260 (667)	1310 (736)						
29	35.7 (15.3)	1100 (568)	1090 (568)						
30	38.2 (12.3)	1210 (679)	1210 (671)						
31	56.1 (26.8)	1150 (742)	1160 (730)						
Avg	32.6	882	871						
n	29	28	27	0	0	0	0	0	0
SD	13.0	390	404						
Min	10.6	242	234						
Max	79.4	1670	1800						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for April, 2008.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	59.4 (31.8)	1080 (667)	975 (617)						
2	66.3 (31.5)	1100 (645)	1050 (629)						
3	62.6 (38.1)	971 (388)	910 (356)						
4	60.0 (17.7)	1110 (433)	1070 (415)						
5	59.0 (18.8)	1760 (1010)	1290 (329)						
6									
7									
8									
9									
10									
11									
12	108.0 (50.6)	1370 (589)	1400 (593)						
13	89.8 (78.7)								
14	118.0 (28.2)								
15	86.3 (57.0)								
16	149.0 (158.0)								
17	131.0 (155.0)								
18	72.9 (84.9)								
19	104.0 (133.0)	173 (392)							
20	21.8 (9.5)	71 (115)	39 (33)						
21	24.1 (10.6)	62 (125)	89 (136)						
22	32.7 (14.6)	288 (312)	411 (477)						
23	19.9 (9.8)	347 (54)	324 (60)						
24	30.1 (9.1)	374 (99)	411 (101)						
25	41.2 (22.7)	358 (72)	438 (96)						
26	40.0 (11.3)	365 (81)	387 (92)						
27	38.6 (33.9)	321 (111)	372 (121)						
28	41.1 (29.4)	369 (118)	467 (95)						
29	34.6 (13.9)	399 (121)	510 (120)						
30	57.1 (50.1)	503 (232)	612 (290)						
Avg	64.5	612	632						
n	24	18	17	0	0	0	0	0	0
SD	35.4	475	393						
Min	19.9	62	39						
Max	149.0	1760	1400						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for May, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	41.2 (20.3)	442 (260)	586 (341)						
2	51.7 (20.2)	1400 (1090)	1600 (1220)						
3	51.8 (17.3)	1990 (1320)	2010 (1440)						
4	40.2 (17.1)	1440 (964)	1590 (1090)						
5	49.6 (21.8)	1370 (1050)	1270 (894)						
6	53.9 (25.2)	1190 (911)	1170 (799)						
7	49.0 (23.0)	1230 (713)	1260 (722)						
8	52.1 (23.5)	980 (566)	1030 (606)						
9	55.8 (16.5)	1170 (728)	1280 (807)						
10	66.9 (30.4)	1130 (675)	1200 (718)						
11	44.0 (17.0)	1200 (815)	1220 (798)						
12	80.3 (41.9)	1350 (736)	1420 (724)						
13	64.1 (32.1)	1050 (797)	1210 (959)						
14	87.1 (50.2)	901 (645)	918 (644)						
15									
16									
17									
18									
19									
20							110.0 (45.0)	2290 (1480)	2680 (1670)
21							232.0 (261.0)	2940 (1610)	3520 (1800)
22							210.0 (248.0)	2990 (1700)	4270 (2270)
23							101.0 (47.7)	2780 (1850)	3460 (2150)
24							42.0 (26.8)	3280 (1700)	3510 (1730)
25							47.5 (21.7)	2330 (1400)	2500 (1470)
26							53.5 (24.5)	2590 (1580)	
27							66.2 (17.4)	2810 (830)	
28									
29	60.8 (16.6)	1220 (393)	1200 (407)						
30	75.4 (26.5)	1200 (453)	1210 (449)						
31	80.7 (21.5)	1270 (569)	1310 (457)						
Avg	59.1	1210	1260				108.0	2750	3320
n	17	17	17	0	0	0	8	8	6
SD	14.0	299	293				69.5	314	587
Min	40.2	442	586				42.0	2290	2500
Max	87.1	1990	2010				232.0	3280	4270

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for June, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	87.6 (21.3)	1350 (611)	1430 (606)						
2	140.0 (99.9)	1430 (699)	1540 (731)						
3	166.0 (99.7)	1310 (551)	1340 (472)						
4	243.0 (207.0)	1570 (639)							
5	127.0 (51.8)								
6	174.0 (102.0)								
7	113.0 (94.8)								
8	45.0 (25.3)								
9	69.3 (45.6)								
10									
11	120.0 (138.0)								
12	49.6 (14.0)								
13	58.5 (19.9)	81 (55)	78 (56)						
14	53.9 (23.8)	170 (202)	220 (380)						
15	43.5 (11.4)	200 (66)	243 (90)						
16	49.6 (18.7)	275 (83)	317 (97)						
17	56.9 (24.4)	297 (98)	321 (113)						
18	79.5 (84.0)	317 (125)	349 (202)						
19	73.7 (69.5)	371 (135)	379 (141)						
20	69.6 (56.9)	374 (204)	389 (213)						
21	69.5 (41.8)	336 (245)	383 (256)						
22	64.3 (33.1)	540 (464)	537 (487)						
23	151.0 (70.8)	2650 (2670)	3040 (3450)						
24	202.0 (88.5)	5030 (4640)	4550 (4310)						
25	174.0 (57.7)	4420 (3970)	4090 (3690)						
26	198.0 (103.0)	3480 (3060)	3510 (3090)						
27	218.0 (59.8)	2430 (2350)	2500 (2370)						
28	106.0 (44.7)	2550 (2340)	2650 (2400)						
29	88.0 (40.0)	2080 (1990)	2200 (2010)						
30	79.7 (40.7)	1960 (1780)	1990 (1720)						
Avg	109.0	1510	1530						
n	29	22	21	0	0	0	0	0	0
SD	57.4	1410	1370						
Min	43.5	81	78						
Max	243.0	5030	4550						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for July, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	House 10	House 12	Ambient	House 10	House 12	Ambient	House 10	House 12
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	79.5 (43.7)	2010 (1670)	2060 (1730)						
2	108.0 (51.3)	1560 (1260)	1770 (1380)						
3	68.6 (28.0)	1060 (953)	1210 (1120)						
4	54.0 (24.2)	1100 (824)	1170 (842)						
5	76.5 (32.0)	701 (539)	746 (583)						
6	90.4 (45.4)	578 (402)	613 (411)						
7	116.0 (60.4)	501 (345)	558 (377)						
8	147.0 (56.0)	440 (288)	470 (322)						
9									
10				85.7 (39.7)	96 (68)	135 (43)			
11				34.3 (13.5)	73 (47)	82 (19)			
12				27.2 (12.0)	67 (36)	72 (16)			
13				21.9 (12.2)	55 (35)	64 (18)			
14				19.7 (10.1)	60 (29)	63 (16)			
15				20.8 (8.8)	75 (33)	74 (21)			
16				28.2 (9.8)	77 (40)	86 (30)			
17				17.7 (10.0)	71 (32)	79 (26)			
18				23.9 (11.6)	87 (32)	98 (29)			
19				27.5 (11.6)	86 (12)	90 (13)			
20				18.0 (7.9)	86 (16)	86 (16)			
21				14.5 (7.0)	90 (16)	96 (20)			
22				21.8 (9.8)	92 (20)	86 (16)			
23				26.1 (12.4)	88 (20)	85 (17)			
24				31.5 (9.5)	97 (21)	95 (21)			
25									
26	108.0 (53.7)	908 (377)	890 (358)						
27	101.0 (28.4)	938 (388)	874 (396)						
28	121.0 (26.9)	1100 (441)	1020 (400)						
29	120.0 (37.6)								
30	119.0 (36.9)								
31	186.0 (95.6)								
Avg	107.0	990	1040	27.9	80	86			
n	14	11	11	15	15	15	0	0	0
SD	32.4	447	477	16.3	12	17			
Min	54.0	440	470	14.5	55	63			
Max	186.0	2010	2060	85.7	97	135			

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for August, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	76.8 (83.1)								
2	110.0 (128.0)								
3	53.1 (37.1)								
4	49.1 (12.9)								
5	42.4 (14.4)								
6	64.4 (29.1)								
7	111.0 (144.0)								
8	49.8 (36.7)								
9	38.1 (19.5)								
10	57.5 (63.7)								
11	51.5 (29.7)								
12	65.3 (29.0)	329 (109)	231 (61)						
13	80.8 (49.5)	353 (98)	342 (98)						
14	78.4 (38.1)	373 (153)	431 (153)						
15	73.8 (44.5)	408 (193)	434 (155)						
16	63.6 (20.3)	433 (186)	455 (171)						
17	38.3 (16.2)	440 (148)	494 (165)						
18	38.3 (24.7)	528 (168)	522 (143)						
19	31.1 (12.6)	691 (404)	669 (388)						
20	53.8 (40.6)	962 (765)	836 (663)						
21	73.1 (46.5)	2310 (2200)	1980 (1800)						
22	104.0 (77.2)	1870 (1770)	1590 (1450)						
23	98.9 (70.1)	2040 (1860)	1850 (1700)						
24	90.4 (54.5)	1780 (1700)	1530 (1380)						
25	86.3 (37.0)	2000 (1940)	1640 (1560)						
26	112.0 (68.5)	1810 (1580)	1560 (1340)						
27	135.0 (85.3)	1250 (1140)	1180 (1060)						
28	135.0 (62.5)	1040 (943)	1010 (883)						
29	122.0 (75.2)	908 (642)	715 (547)						
30	96.8 (30.0)	922 (744)	910 (608)						
31	96.8 (53.6)	1300 (860)	1360 (979)						
Avg	76.7	1090	987						
n	31	20	20	0	0	0	0	0	0
SD	29.2	648	542						
Min	31.1	329	231						
Max	135.0	2310	1980						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for September, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	House 10	House 12	Ambient	House 10	House 12	Ambient	House 10	House 12
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	119.0 (53.3)	1260 (813)	1200 (763)						
2	130.0 (59.7)	1050 (671)	1090 (686)						
3	131.0 (74.8)	974 (626)	936 (580)						
4	117.0 (79.1)	1030 (738)	905 (561)						
5	126.0 (79.6)	856 (548)	871 (477)						
6	119.0 (82.0)	780 (515)	832 (505)						
7	92.3 (59.8)	723 (465)	771 (482)						
8	107.0 (46.4)	1090 (669)	940 (583)						
9	77.3 (34.1)	1150 (659)	984 (537)						
10	84.7 (52.5)	1010 (706)	972 (616)						
11	115.0 (68.6)	1110 (653)	1180 (641)						
12	108.0 (37.0)	1220 (752)	1370 (877)						
13	162.0 (139.0)	1250 (739)	1390 (842)						
14	105.0 (48.2)	974 (507)	1040 (543)						
15	121.0 (48.7)	896 (426)	934 (442)						
16	109.0 (40.6)	854 (273)	900 (256)						
17	84.2 (24.0)	933 (261)	987 (256)						
18	83.1 (46.1)	943 (342)	979 (371)						
19	69.9 (28.1)	908 (309)	934 (297)						
20	62.0 (28.5)	669 (217)	810 (224)						
21	72.7 (22.9)	771 (302)	802 (245)						
22	116.0 (48.7)	1380 (560)							
23	262.0 (250.0)	1450 (563)							
24	164.0 (67.5)	1280 (459)							
25	165.0 (77.4)								
26	194.0 (74.0)								
27	122.0 (52.3)								
28	80.2 (23.2)								
29	76.8 (35.4)								
30	177.0 (145.0)								
Avg	118.0	1020	992						
n	30	24	21	0	0	0	0	0	0
SD	42.2	204	166						
Min	62.0	669	771						
Max	262.0	1450	1390						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for October, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	142.0 (135.0)								
2	43.3 (45.2)								
3	46.2 (22.4)								
4	14.4 (13.0)								
5	18.0 (10.4)								
6	23.9 (11.6)								
7	38.8 (17.0)								
8	51.6 (44.8)								
9	58.5 (32.7)								
10	35.4 (22.5)								
11	32.6 (13.2)								
12	35.8 (9.9)								
13	136.0 (174.0)								
14	61.7 (27.4)								
15	90.9 (43.8)								
16	89.9 (54.8)								
17	98.8 (42.7)	69 (63)	573 (2910)						
18	72.1 (32.0)	66 (63)	53 (13)						
19	42.2 (24.4)	51 (41)	58 (55)						
20	38.4 (16.3)	346 (649)	248 (322)						
21	58.7 (34.0)	305 (66)	259 (125)						
22	95.6 (27.5)	488 (182)	606 (1660)						
23	92.2 (31.7)	753 (209)	604 (838)						
24	95.2 (44.0)	768 (135)	613 (893)						
25	100.0 (36.4)	791 (203)	674 (779)						
26	73.4 (21.5)	715 (138)	658 (428)						
27	83.6 (29.1)	594 (194)	556 (698)						
28	95.5 (49.7)	664 (362)	513 (365)						
29	113.0 (63.5)	1360 (1150)	1220 (1140)						
30	110.0 (49.1)	3670 (2240)	3590 (2210)						
31	25.3 (10.9)	2660 (1540)	2730 (1840)						
Avg	68.1	887	864						
n	31	15	15	0	0	0	0	0	0
SD	34.3	972	956						
Min	14.4	51	53						
Max	142.0	3670	3590						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for November, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	22.7 (21.2)	2040 (1130)	2080 (1160)						
2	15.3 (6.4)	1600 (878)	1670 (859)						
3	18.5 (12.3)	1730 (979)	1850 (1060)						
4	19.8 (7.9)	1570 (906)	1550 (939)						
5	23.1 (8.1)	1810 (948)	1710 (953)						
6	27.4 (10.4)	1420 (822)	1270 (811)						
7									
8									
9									
10									
11	28.1 (10.1)	857 (454)	918 (464)						
12	36.0 (11.9)	994 (503)	893 (460)						
13	37.0 (11.8)	1060 (569)	1030 (562)						
14	57.8 (13.3)	1020 (505)	1060 (536)						
15	61.2 (21.8)	984 (514)	1020 (585)						
16	62.3 (30.0)	1160 (640)	1020 (596)						
17									
18							108.0 (37.3)	3030 (1820)	
19							133.0 (120.0)	3360 (1840)	3440 (2060)
20							54.3 (18.7)	3300 (2080)	3020 (1770)
21							70.4 (62.6)	2990 (1430)	3580 (1800)
22								2700 (1310)	3370 (1680)
23								2880 (1490)	3520 (1800)
24									
25		1270 (397)	1490 (342)						
26		1120 (195)	1180 (187)						
27			1220 (206)						
28		1160 (184)	1450 (342)						
29		1360 (277)	1510 (338)						
30		1350 (357)	1510 (303)						
Avg	34.1	1320	1360				91.4	3040	3390
n	12	17	18	0	0	0	4	6	5
SD	16.4	323	332				30.9	230	196
Min	15.3	857	893				54.3	2700	3020
Max	62.3	2040	2080				133.0	3360	3580

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for December, 2008.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1		1430 (238)	1440 (229)						
2		1500 (290)	1470 (322)						
3	37.6 (15.5)								
4	39.7 (17.9)								
5	33.9 (14.5)								
6	35.6 (5.7)								
7	24.5 (9.6)								
8	22.7 (13.5)								
9	31.4 (13.4)								
10	36.9 (12.7)								
11	53.3 (19.5)								
12	62.4 (24.6)								
13	19.8 (22.3)	372 (412)	306 (814)						
14	14.0 (10.8)	451 (185)	381 (214)						
15	7.9 (6.6)	418 (74)	398 (76)						
16	10.3 (6.1)	365 (203)	374 (38)						
17	13.0 (5.4)	378 (421)	330 (67)						
18	18.1 (5.0)	365 (34)	347 (31)						
19	16.4 (10.1)	313 (50)	304 (64)						
20	17.1 (5.8)	355 (169)	308 (142)						
21	14.5 (10.2)	714 (588)	658 (412)						
22	8.3 (8.3)	1370 (791)	1270 (732)						
23	6.3 (5.5)	1510 (824)	1360 (755)						
24	4.5 (5.0)	1570 (855)	1460 (800)						
25	13.4 (12.9)	1490 (810)	1410 (773)						
26	16.9 (6.7)	1580 (901)	1720 (863)						
27	22.2 (10.0)	2030 (1100)	2080 (1120)						
28	20.6 (10.8)	1760 (920)	1840 (966)						
29	31.9 (14.7)	1550 (820)	1680 (892)						
30	21.6 (10.3)	1350 (704)	1520 (800)						
31	18.1 (9.2)	1210 (768)	1270 (773)						
Avg	23.2	1050	1040						
n	29	21	21	0	0	0	0	0	0
SD	13.6	577	607						
Min	4.5	313	304						
Max	62.4	2030	2080						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for January, 2009.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	20.4 (7.0)	1050 (528)	1010 (528)						
2	27.5 (7.0)	1050 (552)	1030 (533)						
3	17.8 (6.6)	1030 (530)	1050 (546)						
4	19.2 (11.5)	1220 (648)							
5									
6				18.5 (4.8)	104 (29)	100 (20)			
7				13.9 (6.7)	114 (32)	111 (28)			
8				15.5 (6.8)	113 (39)	118 (41)			
9				9.9 (4.8)		97 (32)			
10				21.4 (10.3)		114 (41)			
11				29.2 (16.1)	126 (36)	117 (39)			
12				30.1 (8.7)	119 (44)	112 (41)			
13				29.1 (12.7)	133 (80)	104 (43)			
14				31.0 (16.5)	141 (61)	117 (48)			
15				24.8 (9.3)	130 (55)	140 (60)			
16				26.6 (13.8)	131 (33)	131 (30)			
17				33.3 (18.6)	139 (32)	128 (27)			
18				21.5 (8.6)	138 (31)	128 (31)			
19				23.4 (12.4)	154 (33)	158 (271)			
20									
21	66.4 (20.2)	1960 (795)	1770 (457)						
22	49.8 (16.4)	1460 (415)	1330 (284)						
23	29.0 (15.3)	1070 (194)	1110 (224)						
24	34.9 (19.4)	1010 (342)	1050 (264)						
25	41.1 (18.3)	1400 (293)	1520 (304)						
26	54.6 (23.8)								
27	51.9 (24.7)								
28	65.6 (36.7)								
29	31.2 (14.6)								
30	30.8 (11.1)								
31	27.9 (11.2)								
Avg	37.9	1250	1230	23.4	128	120			
n	15	9	8	14	12	14	0	0	0
SD	15.6	295	263	6.8	13	16			
Min	17.8	1010	1010	9.9	104	97			
Max	66.4	1960	1770	33.3	154	158			

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for February, 2009.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	29.6 (14.1)								
2	29.6 (12.7)								
3	43.8 (24.8)								
4	59.1 (23.8)								
5	27.7 (21.9)								
6	7.0 (6.3)	29 (109)	27 (7)						
7	9.8 (4.7)	44 (55)	48 (27)						
8	6.9 (6.8)	38 (15)	45 (16)						
9	7.2 (5.0)	177 (258)	176 (231)						
10	9.1 (5.5)	251 (98)	204 (52)						
11	7.2 (6.2)	285 (65)	226 (205)						
12	6.1 (5.9)	319 (37)	251 (27)						
13	4.9 (8.2)	284 (56)	230 (43)						
14	5.7 (5.0)	235 (32)	244 (35)						
15	7.9 (5.1)	274 (69)	299 (547)						
16	7.4 (7.3)	273 (52)	295 (48)						
17	4.6 (4.9)	367 (206)	385 (189)						
18	9.7 (6.4)	539 (291)	581 (324)						
19	12.4 (8.1)	1720 (1210)	1560 (1070)						
20	22.2 (13.7)		2200 (1510)						
21	24.5 (11.1)		2020 (1110)						
22	4.3 (12.6)		1750 (955)						
23	7.0 (7.2)		1460 (844)						
24	16.8 (10.1)		1590 (1560)						
25	17.4 (8.9)		1900 (1630)						
26	16.1 (8.7)		1610 (546)						
27	18.0 (10.9)		1390 (575)						
28	27.6 (17.6)		1370 (366)						
Avg	16.1	346	863						
n	28	14	23	0	0	0	0	0	0
SD	12.9	404	749						
Min	4.3	29	27						
Max	59.1	1720	2200						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for March, 2009.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	21.9 (18.2)		1110 (422)						
2	7.6 (10.2)		1320 (631)						
3	9.2 (7.4)		1500 (720)						
4	11.7 (11.4)		1540 (709)						
5	16.7 (8.9)		1550 (805)						
6	19.4 (8.3)		1530 (796)						
7	19.6 (10.1)		1610 (1580)						
8	22.2 (13.4)		1470 (1350)						
9	27.3 (13.6)		1520 (818)						
10	32.9 (11.2)		1780 (2140)						
11	34.7 (20.5)		1300 (774)						
12	52.1 (20.1)								
13	43.2 (27.5)		1500 (849)						
14	37.6 (14.0)		1400 (655)						
15	34.9 (66.5)		1090 (586)						
16	35.1 (18.0)		953 (387)						
17	52.0 (13.8)		929 (432)						
18	61.4 (30.7)		1060 (450)						
19	68.1 (27.8)		1100 (466)						
20	56.4 (37.0)		1190 (501)						
21	33.3 (17.0)		1340 (349)						
22	42.0 (18.3)		1550 (315)						
23	56.7 (20.7)		1850 (839)						
24	59.1 (40.3)		1630 (444)						
25	59.4 (23.9)		1490 (465)						
26	68.8 (18.1)								
27	88.9 (61.4)								
28	56.5 (33.4)								
29	56.1 (44.7)								
30	62.4 (114.0)								
31	27.0 (10.9)								
Avg	41.1		1390						
n	31	0	24	0	0	0	0	0	0
SD	20.0		245						
Min	7.6		929						
Max	88.9		1850						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for April, 2009.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	44.7 (42.9)								
2	23.4 (13.3)								
3	96.2 (138.0)								
4	24.2 (12.2)								
5	24.1 (8.1)								
6	57.8 (58.4)								
7	74.6 (112.0)								
8	8.4 (6.9)								
9									
10									100 (151)
11							13.2 (4.8)		69 (16)
12							13.2 (6.7)		56 (9)
13							16.6 (6.7)		55 (10)
14							27.6 (16.1)		75 (40)
15							16.7 (8.4)		89 (18)
16							23.4 (6.9)		88 (29)
17							31.1 (12.1)		98 (52)
18							46.0 (29.4)		312 (258)
19							45.1 (22.0)		904 (681)
20									
21	47.0 (21.7)		254 (148)						
22	51.1 (34.5)		229 (142)						
23	38.9 (14.6)		331 (205)						
24	34.1 (11.4)		397 (249)						
25	36.9 (14.0)		358 (226)						
26	37.9 (18.7)		339 (252)						
27	45.2 (29.4)		318 (211)						
28	41.7 (19.9)		271 (120)						
29	32.8 (14.3)		239 (111)						
30	51.0 (51.6)		224 (95)						
Avg	42.8		296				25.9		184
n	18	0	10	0	0	0	9	0	10
SD	19.4		57				12.0		250
Min	8.4		224				13.2		55
Max	96.2		397				46.0		904

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for May, 2009.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	28.1 (18.0)								
2	11.7 (6.6)								
3	18.1 (20.2)								
4	13.3 (7.4)								
5	15.1 (10.7)		244 (96)						
6	23.0 (11.9)		256 (124)						
7	32.9 (16.7)		345 (375)						
8	41.6 (19.4)		398 (421)						
9	48.1 (23.5)		396 (259)						
10	57.6 (22.3)		399 (263)						
11	64.2 (34.3)		644 (415)						
12	62.9 (22.8)	739 (450)	858 (502)						
13	67.9 (26.1)	734 (391)	776 (446)						
14	61.0 (28.4)	693 (393)	814 (478)						
15	66.6 (33.4)	536 (222)	654 (273)						
16	89.1 (47.6)	516 (213)	535 (236)						
17	96.6 (46.4)	492 (250)	518 (253)						
18	114.0 (58.0)	565 (251)	582 (268)						
19	99.9 (50.9)	770 (339)	700 (296)						
20	96.6 (34.1)	942 (295)	959 (335)						
21	111.0 (26.5)	823 (342)	906 (403)						
22	116.0 (37.6)	917 (233)							
23	91.5 (13.7)	1080 (261)							
24	88.3 (19.4)								
25	96.5 (23.4)	1050 (332)							
26	119.0 (42.6)								
27	170.0 (68.0)								
28	180.0 (117.0)								
29	57.5 (30.5)								
30	53.6 (27.9)								
31	32.7 (25.5)								
Avg	71.8	759	587						
n	31	13	17	0	0	0	0	0	0
SD	42.3	191	220						
Min	11.7	492	244						
Max	180.0	1080	959						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for June, 2009.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	63.5 (90.3)								
2									
3									
4									
5	14.5 (8.4)	179 (68)							
6	15.2 (6.5)	323 (67)	345 (68)						
7	20.3 (10.9)	269 (56)	379 (75)						
8	29.5 (14.6)	301 (73)	368 (118)						
9	21.5 (9.6)	368 (74)	313 (59)						
10	19.6 (9.9)	387 (68)	325 (75)						
11	21.9 (10.0)	348 (54)	391 (113)						
12	20.8 (9.6)	357 (162)	409 (102)						
13	14.2 (7.4)	366 (172)	500 (251)						
14	23.3 (11.8)	1430 (1100)	1320 (1020)						
15	35.3 (19.1)	1640 (1090)	1890 (1130)						
16	55.5 (62.7)	987 (758)	1130 (862)						
17	49.8 (26.5)	930 (641)	1010 (718)						
18	58.3 (29.8)	681 (532)	734 (592)						
19	58.2 (30.0)	744 (762)	757 (763)						
20	51.7 (26.1)	976 (806)	930 (767)						
21	41.6 (16.9)	650 (463)	783 (528)						
22	53.6 (29.0)	494 (514)	580 (559)						
23	62.2 (36.8)	465 (457)	594 (546)						
24	64.4 (27.2)	465 (409)	515 (469)						
25									
26							79.7 (29.5)	1440 (1070)	1810 (1270)
27							92.7 (43.3)	970 (648)	1050 (687)
28							88.5 (38.0)	782 (425)	822 (426)
29							78.1 (33.2)	824 (460)	857 (461)
30							76.2 (27.8)	1040 (598)	1070 (547)
Avg	37.8	618	698				83.1	1010	1120
n	21	20	19	0	0	0	5	5	5
SD	18.3	386	401				6.4	234	358
Min	14.2	179	313				76.2	782	822
Max	64.4	1640	1890				92.7	1440	1810

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for July, 2009.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	House 10	House 12	Ambient	House 10	House 12	Ambient	House 10	House 12
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1							74.1 (30.5)	938 (563)	967 (518)
2							86.3 (35.8)	885 (598)	969 (521)
3							77.9 (27.1)	897 (509)	1000 (518)
4							69.7 (29.0)		1010 (384)
5							61.4 (18.3)		1140 (470)
6							62.4 (26.2)	1110 (1130)	1270 (670)
7							81.1 (33.5)	1160 (768)	1490 (1060)
8									
9	74.4 (29.2)	523 (239)	604 (311)						
10	82.5 (39.4)	541 (249)	612 (294)						
11	97.1 (55.3)	506 (251)	518 (253)						
12	83.6 (32.1)	403 (170)	458 (193)						
13	99.1 (35.0)	414 (187)							
14	101.0 (55.2)	394 (153)							
15		457 (125)							
16	123.0 (33.0)	475 (125)							
17	112.0 (66.2)	460 (131)							
18	139.0 (51.3)	510 (149)							
19	126.0 (43.8)	397 (115)							
20	138.0 (49.5)								
21	154.0 (69.7)								
22	110.0 (130.0)								
23	60.6 (46.5)								
24									
25									
26									
27									
28	43.8 (21.0)	55 (28)							
29	41.2 (20.8)	47 (11)							
30	38.3 (20.0)	161 (191)							
31	37.0 (20.1)	148 (30)							
Avg	92.3	366	548				73.3	999	1120
n	18	15	4	0	0	0	7	5	7
SD	36.1	167	64				8.7	116	183
Min	37.0	47	458				61.4	885	967
Max	154.0	541	612				86.3	1160	1490

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for August, 2009.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	41.5 (15.6)	209 (47)							
2	24.7 (12.0)	182 (46)							
3	29.0 (17.7)	179 (43)							
4	30.7 (17.4)								
5	53.9 (46.7)								
6	29.0 (42.4)								
7	31.6 (17.1)								
8	52.6 (25.9)								
9	78.6 (50.4)								
10	114.0 (74.9)								
11	113.0 (63.1)								
12	108.0 (69.0)								
13	81.9 (61.7)								
14	79.2 (51.1)								
15	97.1 (70.1)								
16	90.3 (60.8)								
17	98.5 (61.9)	1190 (1030)	1250 (1100)						
18	94.3 (56.6)	990 (913)	969 (842)						
19	74.2 (40.0)	707 (601)	723 (594)						
20	58.2 (29.6)	715 (564)	744 (582)						
21	68.0 (46.1)	514 (429)	537 (429)						
22	80.2 (34.3)	352 (316)	382 (299)						
23	57.7 (26.9)	395 (279)	432 (260)						
24	63.0 (28.5)	510 (380)	598 (412)						
25	72.9 (33.0)	516 (380)	559 (383)						
26	78.6 (35.7)	502 (318)	605 (368)						
27	124.0 (52.0)	495 (247)	550 (280)						
28	117.0 (68.8)	428 (217)	476 (263)						
29	84.8 (33.4)	372 (195)	411 (240)						
30	62.9 (40.2)	325 (156)	367 (191)						
31	67.1 (30.0)	365 (186)	411 (230)						
Avg	72.8	497	601						
n	31	18	15	0	0	0	0	0	0
SD	27.6	258	235						
Min	24.7	179	367						
Max	124.0	1190	1250						

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for September, 2009.

Day	PM_{10} Concentration, μg dsm^{-3}			$PM_{2.5}$ Concentration, μg dsm^{-3}			TSP Concentration, μg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1	78.1 (40.4)	317 (168)	367 (199)						
2	87.6 (31.6)	329 (173)	351 (194)						
3	98.1 (56.8)	342 (181)	368 (208)						
4	89.0 (44.9)	426 (171)	510 (242)						
5	91.0 (75.1)	464 (225)	497 (285)						
6	71.1 (49.5)	496 (268)	516 (291)						
7	88.9 (44.9)	479 (285)	572 (373)						
8	111.0 (61.6)	514 (220)	596 (263)						
9	97.9 (49.1)	492 (191)	608 (213)						
10	128.0 (61.9)	516 (157)							
11	124.0 (45.5)	485 (111)							
12	93.4 (45.7)	463 (133)							
13	82.2 (76.0)								
14	56.7 (93.8)								
15	30.8 (32.4)								
16	66.9 (107.0)								
17	77.4 (88.0)								
18	62.0 (39.4)								
19	37.5 (22.6)								
20	29.3 (17.0)								
21	53.9 (23.4)								
22	98.7 (72.0)								
23	71.6 (42.0)								
24	52.6 (38.5)								
25	58.4 (25.7)								
26									
27				22.7 (13.2)	40 (14)				
28				10.7 (11.6)	46 (10)				
29				7.0 (7.1)	43 (13)				
30				10.7 (22.3)	37 (10)				
Avg	77.4	444	487	12.8	42				
n	25	12	9	4	4	0	0	0	0
SD	25.6	70	95	5.9	3				
Min	29.3	317	351	7.0	37				
Max	128.0	516	608	22.7	46				

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Table E4. Daily means (SD) of particulate matter concentrations at Site CA1B for October, 2009.

Day	PM_{10} Concentration, µg dsm^{-3}			$PM_{2.5}$ Concentration, µg dsm^{-3}			TSP Concentration, µg dsm^{-3}		
	Ambient	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**	**Ambient**	**House 10**	**House 12**
	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)	Mean (SD)
1				9.2 (7.5)	36 (14)				
2				12.9 (9.4)	37 (10)				
3				8.0 (8.1)	36 (8)				
4				5.9 (5.3)	51 (24)				
5				7.9 (5.6)	55 (21)				
6				11.0 (5.8)	67 (29)				
7									
8							78.9 (55.6)	4530 (3450)	
9							74.7 (41.6)	4110 (3500)	
10							86.5 (57.8)	3860 (3170)	
11							59.5 (27.8)	3430 (2430)	
12							75.4 (71.2)	2980 (2050)	
13							103.0 (200.0)	2590 (1470)	
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Avg				9.2	47		79.6	3580	
n	0	0	0	6	6	0	6	6	0
SD				2.3	12		13.0	661	
Min				5.9	36		59.5	2590	
Max				12.9	67		103.0	4530	

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Table E5. PM10 emissions

Table E5. Daily means (SD) of PM10 emissions at Site CA1B for September, 2007.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29					53 (73)	35 (48)	2.5 (3.5)	8.7 (12.0)
30					425 (496)	279 (325)	20.2 (23.6)	56.2 (65.3)
Avg					239	157	11.4	32.5
n	0	0	0	0	2	2	2	2
SD					186	122	8.8	23.7
Min					53	35	2.5	8.7
Max					425	279	20.2	56.2

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for October, 2007.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1					559 (637)	366 (418)	26.6 (30.3)	62.2 (70.7)
2					715 (729)	469 (478)	34.0 (34.7)	67.0 (68.2)
3					781 (727)	512 (477)	37.2 (34.6)	62.6 (58.5)
4					631 (688)	414 (451)	30.1 (32.8)	43.8 (47.8)
5					678 (715)	444 (469)	32.3 (34.1)	41.0 (43.1)
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg					673	441	32.0	55.3
n	0	0	0	0	5	5	5	5
SD					75	49	3.6	10.7
Min					559	366	26.6	41.0
Max					781	512	37.2	67.0

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for November, 2007.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6																
7																
8	0	(0)	0	(0)												
9	0	(1)	0	(1)												
10	31	(88)	20	(58)												
11																
12	6	(14)	4	(9)												
13	2	(5)	1	(3)												
14																
15	15	(48)	10	(31)												
16	10	(15)	6	(10)	0.5	(0.7)	3.4	(5.3)								
17	11	(16)	7	(10)	0.5	(0.7)	4.4	(6.3)								
18	13	(17)	8	(11)	0.6	(0.8)	5.4	(7.4)								
19	13	(22)	8	(15)	0.6	(1.1)	5.3	(9.2)								
20	25	(48)	17	(31)	1.2	(2.3)	9.1	(17.2)								
21	38	(76)	25	(50)	1.8	(3.7)	11.6	(23.0)	59	(99)	39	(65)	2.8	(4.7)	18.0	(30.1)
22																
23																
24	66	(92)	43	(60)	3.2	(4.4)	10.7	(14.8)	90	(129)	59	(85)	4.3	(6.2)	14.6	(21.0)
25	325	(611)	213	(401)	15.6	(29.3)	42.8	(79.6)	320	(655)	210	(429)	15.3	(31.2)	42.3	(85.7)
26	551	(920)	361	(603)	26.4	(44.1)	61.7	(104.0)	691	(1120)	453	(735)	32.9	(53.4)	77.2	(126.0)
27	526	(811)	345	(532)	25.3	(38.9)	49.5	(76.7)	587	(904)	385	(593)	28.0	(43.1)	55.3	(86.0)
28	442	(671)	290	(440)	21.2	(32.2)	35.5	(54.2)	520	(740)	341	(485)	24.8	(35.3)	41.8	(59.8)
29	418	(592)	274	(388)	20.1	(28.4)	29.0	(41.3)	486	(661)	319	(433)	23.2	(31.6)	33.8	(46.1)
30	366	(525)	240	(344)	17.6	(25.2)	22.2	(32.1)	404	(570)	265	(374)	19.3	(27.2)	24.4	(34.8)
Avg	150		99		10.3		22.4		395		259		18.8		38.4	
n	19		19		13		13		8		8		8		8	
SD	201		132		10.3		18.8		212		139		10.1		19.4	
Min	0		0		0.5		3.4		59		39		2.8		14.6	
Max	551		361		26.4		61.7		691		453		32.9		77.2	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for December, 2007.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2	453	(542)	297	(355)	21.8	(26.1)	21.4	(25.7)	535	(615)	351	(403)	25.6	(29.4)	25.3	(29.1)
3	497	(499)	326	(327)	23.9	(24.0)	21.0	(21.2)	633	(627)	415	(411)	30.3	(30.0)	26.7	(26.5)
4	475	(493)	311	(324)	22.9	(23.8)	18.1	(18.9)	549	(586)	360	(384)	26.3	(28.0)	20.9	(22.4)
5	478	(505)	313	(331)	23.0	(24.3)	16.4	(17.4)	633	(683)	415	(448)	30.3	(32.7)	21.7	(23.4)
6	453	(544)	297	(357)	21.8	(26.2)	14.3	(17.2)	539	(652)	353	(428)	25.8	(31.2)	16.9	(20.6)
7	536	(574)	351	(377)	25.8	(27.7)	15.4	(16.6)	592	(619)	388	(406)	28.3	(29.6)	17.0	(17.8)
8	714	(670)	468	(440)	34.4	(32.3)	18.9	(17.8)	811	(794)	532	(521)	38.9	(38.0)	21.4	(21.0)
9	714	(733)	468	(481)	34.4	(35.4)	17.5	(18.1)	909	(898)	596	(589)	43.6	(43.0)	22.2	(22.0)
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20	1350	(941)	885	(617)	65.3	(45.6)	17.5	(12.2)	1720	(1210)	1130	(792)	82.6	(58.1)	22.2	(15.7)
21	1590	(1200)	1040	(790)	77.1	(58.3)	19.8	(15.0)	2060	(1540)	1350	(1010)	98.9	(74.3)	25.5	(19.2)
22	1480	(1100)	973	(722)	71.9	(53.4)	17.8	(13.2)	1990	(1610)	1310	(1050)	95.8	(77.3)	23.7	(19.2)
23	1300	(1010)	851	(660)	62.9	(48.8)	14.9	(11.6)	1710	(1330)	1120	(873)	82.5	(64.1)	19.6	(15.3)
24	1240	(833)	816	(546)	60.3	(40.4)	13.8	(9.3)	1500	(986)	987	(647)	72.5	(47.5)	16.6	(10.9)
25	1250	(812)	817	(532)	60.5	(39.4)	13.4	(8.7)	1550	(1090)	1020	(716)	74.6	(52.6)	16.5	(11.7)
26	1470	(876)	967	(574)	71.6	(42.5)	15.3	(9.1)	1400	(823)	918	(540)	67.4	(39.7)	14.4	(8.5)
27	1540	(659)	1010	(432)	74.7	(32.0)	15.5	(6.7)	1060	(593)	693	(389)	51.0	(28.6)	10.6	(6.0)
28	1420	(725)	931	(476)	69.0	(35.2)	13.9	(7.0)	1360	(1110)	889	(727)	65.4	(53.5)	13.1	(10.7)
29	1780	(647)	1160	(424)	86.4	(31.5)	16.9	(6.1)	2080	(683)	1360	(448)	100.0	(33.0)	19.6	(6.5)
30																
31																
Avg	1040		683		50.4		16.8		1200		788		57.8		19.7	
n	18		18		18		18		18		18		18		18	
SD	469		307		22.8		2.4		553		363		26.7		4.3	
Min	453		297		21.8		13.4		535		351		25.6		10.6	
Max	1780		1160		86.4		21.4		2080		1360		100.0		26.7	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for January, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6	9	(16)	6	(11)	1.0	(1.8)	7.2	(13.0)	3	(6)	2	(4)				
7	16	(27)	11	(18)	1.2	(2.0)	10.2	(16.7)	12	(31)	8	(21)				
8	15	(20)	10	(13)	0.7	(1.0)	6.4	(8.6)	12	(16)	8	(11)	0.6	(0.8)	4.1	(5.4)
9									16	(27)	10	(18)	0.7	(1.3)	6.2	(10.7)
10	12	(18)	8	(12)	0.6	(0.8)	4.5	(6.5)	19	(28)	13	(18)	0.9	(1.3)	8.2	(11.8)
11	16	(22)	11	(15)	0.8	(1.1)	5.0	(6.8)	23	(32)	15	(21)	1.1	(1.5)	9.6	(13.1)
12	21	(34)	14	(22)	1.0	(1.6)	5.3	(8.5)	24	(40)	16	(26)	1.2	(1.9)	9.1	(14.6)
13	23	(39)	15	(26)	1.1	(1.9)	4.6	(8.0)	31	(55)	21	(36)	1.5	(2.6)	9.8	(16.9)
14	41	(54)	27	(35)	2.0	(2.6)	6.9	(8.9)	52	(66)	34	(44)	2.5	(3.2)	13.3	(17.1)
15	50	(70)	33	(46)	2.4	(3.3)	6.9	(9.7)	47	(65)	31	(42)	2.2	(3.1)	10.0	(13.7)
16	75	(113)	49	(74)	3.6	(5.4)	8.7	(13.0)	59	(94)	39	(62)	2.8	(4.5)	10.1	(16.1)
17	133	(207)	87	(136)	6.4	(9.9)	12.9	(20.0)	147	(289)	97	(190)	7.0	(13.8)	20.4	(39.8)
18	175	(266)	115	(175)	8.4	(12.8)	14.5	(22.1)	293	(489)	192	(321)	14.0	(23.3)	34.0	(57.3)
19	205	(277)	135	(182)	9.9	(13.3)	14.6	(19.8)	356	(480)	233	(315)	16.9	(22.9)	34.7	(47.0)
20	218	(318)	143	(208)	10.5	(15.3)	13.5	(19.8)	360	(533)	236	(350)	17.2	(25.4)	30.1	(44.7)
21	237	(361)	156	(237)	11.4	(17.3)	12.9	(19.8)	343	(533)	225	(350)	16.4	(25.5)	24.6	(38.4)
22	234	(364)	154	(239)	11.3	(17.5)	11.3	(17.6)	326	(555)	214	(364)	15.6	(26.5)	20.3	(34.8)
23	305	(460)	200	(301)	14.7	(22.1)	13.1	(19.9)	379	(596)	248	(391)	18.1	(28.5)	20.7	(32.6)
24	326	(510)	214	(334)	15.7	(24.6)	12.6	(19.8)	392	(639)	257	(419)	18.8	(30.6)	19.0	(31.1)
25	364	(465)	239	(305)	17.6	(22.4)	12.8	(16.4)	434	(563)	285	(369)	20.8	(27.0)	18.7	(24.3)
26	454	(520)	298	(341)	21.9	(25.1)	14.5	(16.7)	555	(636)	364	(417)	26.6	(30.5)	21.5	(24.8)
27	452	(514)	297	(337)	21.8	(24.8)	13.2	(15.1)	553	(626)	363	(411)	26.5	(30.0)	19.5	(22.1)
28																
29	660	(879)	433	(576)	31.9	(42.4)	16.4	(21.9)	761	(1100)	499	(721)	36.5	(52.9)	22.3	(32.3)
30	757	(936)	496	(614)	36.6	(45.2)	17.5	(21.7)	1010	(1300)	664	(854)	48.7	(62.6)	27.3	(35.0)
31	652	(860)	428	(564)	31.5	(41.5)	14.0	(18.5)	739	(979)	484	(642)	35.5	(47.1)	18.4	(24.5)
Avg	227		149		11.0		10.8		278		182		14.4		17.9	
n	24		24		24		24		25		25		23		23	
SD	224		147		10.8		3.9		277		182		13.3		8.5	
Min	9		6		0.6		4.5		3		2		0.6		4.1	
Max	757		496		36.6		17.5		1010		664		48.7		34.7	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for March, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	25	(32)	17	(21)	1.2	(1.5)	10.0	(12.9)	20	(41)	13	(27)	0.9	(1.9)	8.0	(16.3)
2	53	(72)	35	(47)	2.5	(3.4)	22.4	(30.5)	50	(78)	33	(51)	2.4	(3.7)	21.3	(33.2)
3	75	(83)	49	(55)	3.5	(3.9)	30.8	(34.4)	81	(85)	53	(56)	3.8	(4.0)	33.3	(35.1)
4	59	(66)	39	(43)	2.8	(3.1)	21.3	(23.6)	65	(72)	43	(47)	3.1	(3.4)	23.6	(25.8)
5	57	(68)	37	(45)	2.7	(3.2)	17.4	(20.8)	58	(66)	38	(43)	2.7	(3.1)	17.5	(20.0)
6	59	(67)	39	(44)	2.8	(3.2)	14.7	(16.8)	59	(63)	38	(41)	2.8	(3.0)	14.6	(15.7)
7	81	(103)	53	(68)	3.8	(4.9)	16.2	(20.4)	86	(108)	56	(71)	4.1	(5.1)	17.3	(21.6)
8	74	(119)	48	(78)	3.5	(5.6)	12.0	(19.5)	84	(145)	55	(95)	4.0	(6.9)	13.7	(23.7)
9	216	(263)	142	(173)	10.2	(12.5)	28.7	(34.6)	180	(229)	118	(150)	8.6	(10.9)	23.9	(30.2)
10	285	(292)	187	(192)	13.5	(13.9)	31.7	(32.5)	288	(307)	189	(201)	13.7	(14.6)	31.9	(33.9)
11	249	(312)	163	(205)	11.8	(14.8)	23.4	(29.2)	296	(376)	194	(247)	14.1	(17.9)	27.8	(35.4)
12	331	(419)	217	(275)	15.7	(19.9)	26.5	(33.6)	345	(442)	226	(290)	16.4	(21.1)	27.7	(35.5)
13	309	(339)	202	(222)	14.7	(16.1)	21.4	(23.5)	324	(362)	212	(237)	15.4	(17.2)	22.4	(24.9)
14	386	(465)	253	(305)	18.4	(22.1)	23.1	(27.7)	406	(510)	266	(335)	19.4	(24.3)	24.4	(30.6)
15	468	(571)	307	(375)	22.3	(27.2)	24.7	(30.1)	457	(574)	300	(377)	21.8	(27.4)	24.2	(30.3)
16	622	(799)	408	(524)	29.7	(38.1)	29.0	(37.0)	679	(855)	446	(561)	32.5	(40.8)	31.8	(39.7)
17	566	(598)	371	(392)	27.0	(28.5)	23.8	(25.4)	639	(690)	419	(452)	30.6	(33.0)	27.0	(29.3)
18	511	(390)	335	(255)	24.4	(18.6)	19.4	(14.8)	620	(497)	407	(326)	29.7	(23.8)	23.6	(18.9)
19	472	(450)	309	(295)	22.5	(21.5)	16.2	(15.3)	494	(429)	324	(281)	23.7	(20.5)	17.0	(14.7)
20	500	(610)	328	(400)	23.9	(29.2)	15.7	(19.1)	429	(457)	281	(299)	20.6	(21.9)	13.5	(14.4)
21	666	(864)	437	(567)	31.9	(41.4)	19.2	(25.0)	537	(600)	352	(394)	25.7	(28.8)	15.5	(17.3)
22	777	(911)	510	(597)	37.2	(43.6)	20.6	(24.4)	649	(658)	426	(431)	31.2	(31.6)	17.3	(17.6)
23	811	(838)	532	(549)	38.9	(40.2)	20.0	(20.9)								
24																
25																
26	998	(864)	655	(567)	48.0	(41.5)	19.9	(17.2)	963	(850)	631	(558)	46.5	(41.1)	19.3	(17.1)
27																
28	1080	(823)	711	(540)	52.2	(39.6)	19.1	(14.6)	1140	(854)	748	(560)	55.2	(41.3)	20.2	(15.2)
29	1010	(676)	659	(443)	48.4	(32.6)	16.7	(11.3)	986	(674)	647	(442)	47.7	(32.6)	16.5	(11.3)
30	1140	(816)	749	(535)	55.0	(39.3)	18.0	(13.0)	1140	(807)	745	(529)	55.0	(39.1)	18.0	(12.9)
31	1140	(877)	749	(575)	55.1	(42.3)	17.1	(13.2)	1160	(870)	763	(570)	56.4	(42.1)	17.5	(13.2)
Avg	465		305		22.3		20.7		453		297		21.8		21.1	
n	28		28		28		28		27		27		27		27	
SD	362		238		17.5		5.3		362		237		17.5		6.1	
Min	25		17		1.2		10.0		20		13		0.9		8.0	
Max	1140		749		55.1		31.7		1160		763		56.4		33.3	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for April, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	1290	(906)	845	(594)	62.2	(43.7)	18.4	(13.0)	1170	(843)	765	(553)	56.6	(40.9)	16.7	(12.1)
2	1370	(847)	896	(555)	66.0	(40.9)	18.6	(11.6)	1300	(811)	855	(532)	63.3	(39.4)	17.8	(11.1)
3	1350	(700)	886	(459)	65.3	(33.8)	17.6	(9.1)	1300	(742)	852	(487)	63.1	(36.0)	17.0	(9.7)
4	1820	(1090)	1190	(715)	88.1	(52.8)	22.7	(13.5)	1650	(962)	1080	(631)	80.3	(46.8)	20.7	(12.0)
5	2810	(1550)	1840	(1010)	136.0	(74.8)	33.8	(18.6)	1960	(618)	1280	(405)	95.2	(30.0)	23.6	(7.4)
6																
7																
8																
9																
10																
11																
12	3330	(855)	2180	(561)	162.0	(41.6)	31.8	(8.1)	3460	(973)	2270	(638)	169.0	(47.6)	33.2	(9.3)
13																
14																
15																
16																
17																
18																
19	27	(184)	18	(121)					7	(92)	4	(60)				
20	17	(56)	11	(37)					1	(7)	1	(5)				
21	4	(81)	2	(53)					19	(63)	13	(41)				
22	24	(70)	15	(46)					31	(94)	20	(62)	1.7	(4.9)	10.8	(29.6)
23	29	(50)	19	(33)	1.4	(2.3)	10.1	(17.1)	26	(45)	17	(30)	1.2	(2.1)	9.1	(15.8)
24	32	(43)	21	(28)	1.5	(2.0)	12.6	(17.1)	33	(45)	22	(30)	1.6	(2.1)	13.4	(18.2)
25	48	(71)	32	(47)	2.3	(3.3)	20.3	(30.1)	63	(87)	41	(57)	3.0	(4.1)	26.7	(36.7)
26	83	(85)	54	(56)	3.9	(4.0)	33.5	(34.3)	92	(96)	60	(63)	4.3	(4.5)	36.8	(38.6)
27	105	(101)	69	(66)	4.9	(4.8)	37.5	(35.9)	132	(119)	86	(78)	6.2	(5.6)	46.0	(41.5)
28	115	(118)	75	(78)	5.4	(5.6)	34.5	(35.3)	152	(130)	99	(85)	7.2	(6.1)	44.2	(37.7)
29	73	(95)	48	(63)	3.5	(4.5)	18.0	(23.5)	96	(114)	63	(75)	4.5	(5.4)	22.9	(27.2)
30	78	(113)	51	(74)	3.7	(5.3)	15.7	(22.7)	90	(130)	59	(85)	4.3	(6.1)	17.5	(25.3)
Avg	700		459		43.3		23.2		644		422		37.5		23.8	
n	18		18		14		14		18		18		15		15	
SD	1020		672		52.7		8.8		941		617		48.0		11.1	
Min	4		2		1.4		10.1		1		1		1.2		9.1	
Max	3330		2180		162.0		37.5		3460		2270		169.0		46.0	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for May, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	98	(149)	65	(98)	4.7	(7.1)	16.1	(24.5)	143	(217)	94	(142)	6.8	(10.2)	22.6	(34.5)
2	508	(752)	333	(493)	24.0	(35.5)	67.9	(100.0)	585	(861)	384	(565)	27.7	(40.7)	75.8	(112.0)
3	620	(826)	406	(542)	29.3	(39.1)	68.8	(92.0)	617	(866)	405	(568)	29.2	(41.0)	66.7	(94.1)
4	603	(663)	395	(435)	28.5	(31.4)	56.4	(62.0)	663	(764)	435	(501)	31.4	(36.2)	60.4	(69.4)
5	674	(720)	442	(472)	31.9	(34.1)	53.5	(56.4)	633	(679)	415	(445)	30.0	(32.2)	49.3	(52.9)
6	569	(613)	373	(402)	27.0	(29.0)	39.3	(42.6)	584	(618)	383	(405)	27.7	(29.3)	39.3	(41.5)
7	491	(581)	322	(381)	23.3	(27.5)	29.6	(35.0)	509	(615)	334	(403)	24.1	(29.1)	30.0	(36.4)
8	736	(596)	482	(391)	34.9	(28.3)	38.8	(31.2)	765	(616)	501	(404)	36.3	(29.2)	39.5	(31.6)
9	650	(592)	426	(388)	30.9	(28.1)	30.5	(27.6)	717	(664)	470	(435)	34.0	(31.5)	32.9	(30.2)
10	954	(752)	626	(493)	45.3	(35.7)	39.9	(31.2)	1020	(815)	671	(535)	48.5	(38.7)	42.0	(33.3)
11	871	(854)	571	(560)	41.4	(40.6)	32.8	(32.1)	904	(938)	593	(615)	42.9	(44.5)	33.5	(34.7)
12	796	(675)	522	(442)	37.8	(32.1)	27.2	(23.0)	829	(721)	543	(473)	39.4	(34.3)	27.9	(24.2)
13	1040	(962)	680	(631)	49.3	(45.8)	32.2	(29.7)	1230	(1150)	804	(754)	58.3	(54.7)	37.5	(34.8)
14	1180	(933)	772	(612)	56.1	(44.4)	33.7	(26.7)	1210	(975)	795	(639)	57.7	(46.4)	34.1	(27.5)
15																
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29	2470	(862)	1620	(565)	119.0	(41.5)	29.4	(10.2)	2520	(963)	1650	(632)	121.0	(46.3)	29.8	(11.3)
30	2680	(737)	1760	(484)	129.0	(35.5)	30.7	(8.3)	2830	(877)	1860	(575)	136.0	(42.2)	32.2	(9.8)
31	2700	(863)	1770	(566)	130.0	(41.6)	29.9	(9.5)	2920	(819)	1910	(537)	140.0	(39.4)	32.0	(8.8)
Avg	1040		680		49.6		38.6		1100		721		52.5		40.3	
n	17		17		17		17		17		17		17		17	
SD	769		504		37.2		14.2		810		531		39.1		14.2	
Min	98		65		4.7		16.1		143		94		6.8		22.6	
Max	2700		1770		130.0		68.8		2920		1910		140.0		75.8	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for June, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	2900	(818)	1900	(537)	140.0	(39.5)	31.0	(8.7)	3260	(916)	2140	(601)	157.0	(44.2)	34.6	(9.6)
2	2950	(1650)	1940	(1080)	143.0	(80.0)	30.6	(17.1)	3460	(2460)	2270	(1610)	167.0	(119.0)	35.6	(25.2)
3	3080	(1020)	2020	(670)	149.0	(49.5)	31.0	(10.3)	3270	(901)	2140	(591)	158.0	(43.5)	32.6	(8.9)
4	3330	(1470)	2180	(963)	162.0	(71.2)	32.5	(14.3)								
5																
6																
7																
8																
9																
10																
11																
12																
13	12	(34)	8	(22)					9	(33)	6	(22)				
14	42	(69)	27	(45)					71	(175)	47	(115)				
15	59	(72)	38	(47)	2.8	(3.4)	20.7	(25.5)	59	(69)	39	(45)	2.8	(3.3)	20.6	(24.1)
16	82	(82)	54	(54)	3.9	(3.8)	33.1	(33.1)	95	(96)	62	(63)	4.5	(4.6)	38.0	(38.9)
17	82	(88)	54	(58)	3.9	(4.2)	34.8	(37.5)	88	(93)	58	(61)	4.2	(4.4)	37.3	(39.6)
18	90	(117)	59	(77)	4.2	(5.5)	36.4	(47.1)	104	(152)	68	(100)	4.9	(7.2)	42.5	(62.6)
19	127	(154)	84	(101)	6.0	(7.3)	45.1	(54.7)	121	(149)	80	(98)	5.8	(7.0)	43.4	(53.0)
20	200	(263)	131	(172)	9.5	(12.4)	59.0	(76.6)	205	(253)	135	(166)	9.7	(12.0)	61.3	(74.6)
21	151	(335)	99	(220)	7.2	(15.8)	36.9	(80.8)	170	(301)	111	(198)	8.0	(14.3)	41.9	(73.5)
22	310	(328)	204	(215)	14.7	(15.5)	61.2	(65.2)	276	(299)	181	(196)	13.1	(14.2)	55.3	(60.6)
23	1410	(1460)	926	(955)	66.8	(68.9)	223.0	(227.0)	1500	(1690)	982	(1110)	71.1	(80.0)	238.0	(263.0)
24	2350	(2850)	1540	(1870)	111.0	(135.0)	309.0	(376.0)	2400	(2900)	1570	(1900)	114.0	(138.0)	319.0	(388.0)
25	2300	(2490)	1510	(1630)	109.0	(118.0)	253.0	(276.0)	2150	(2620)	1410	(1720)	102.0	(124.0)	238.0	(291.0)
26	2030	(1940)	1330	(1270)	96.3	(91.8)	188.0	(179.0)	2010	(2090)	1320	(1370)	95.5	(99.2)	188.0	(196.0)
27	1770	(1580)	1160	(1040)	84.0	(74.9)	139.0	(123.0)	1920	(1690)	1260	(1110)	91.1	(80.2)	152.0	(133.0)
28	1690	(1620)	1110	(1060)	80.3	(76.9)	115.0	(110.0)	1860	(1730)	1220	(1140)	88.4	(82.4)	127.0	(119.0)
29	1690	(1520)	1110	(999)	80.4	(72.2)	100.0	(89.5)	1940	(1680)	1270	(1100)	92.4	(80.0)	116.0	(99.9)
30	1770	(1440)	1160	(943)	83.8	(68.2)	92.0	(74.2)	1910	(1520)	1250	(996)	90.8	(72.3)	100.0	(79.3)
Avg	1290		848		67.9		93.6		1280		839		67.4		101.0	
n	22		22		20		20		21		21		19		19	
SD	1170		767		55.5		83.4		1200		788		57.2		85.2	
Min	12		8		2.8		20.7		9		6		2.8		20.6	
Max	3330		2180		162.0		309.0		3460		2270		167.0		319.0	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for July, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	1730	(1390)	1140	(912)	82.3	(66.0)	80.3	(64.5)	1940	(1620)	1270	(1060)	92.2	(77.3)	90.1	(75.6)
2	1590	(1100)	1040	(720)	75.3	(52.2)	65.8	(45.6)	1920	(1400)	1260	(915)	91.5	(66.5)	80.3	(58.2)
3	1080	(888)	709	(583)	51.4	(42.2)	40.7	(33.8)	1270	(1100)	831	(720)	60.4	(52.3)	48.1	(42.1)
4	1040	(813)	682	(533)	49.4	(38.7)	35.4	(27.8)	1160	(942)	759	(618)	55.3	(44.9)	39.7	(32.4)
5	925	(679)	607	(445)	44.0	(32.3)	28.7	(21.2)	1030	(746)	673	(489)	49.0	(35.6)	32.1	(23.5)
6	909	(650)	596	(426)	43.3	(31.0)	25.9	(18.7)	1010	(721)	662	(473)	48.2	(34.5)	28.9	(20.8)
7	944	(859)	619	(563)	45.0	(41.0)	24.8	(22.5)	1100	(909)	722	(596)	52.7	(43.5)	29.1	(24.0)
8	870	(865)	571	(567)	41.5	(41.3)	21.2	(21.0)	999	(1050)	655	(685)	47.9	(50.1)	24.5	(25.5)
9																
10																
11																
12																
13																
14																
15																
16																
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23																
24																
25																
26	2990	(977)	1960	(641)	146.0	(47.5)	30.2	(10.0)	2980	(882)	1950	(578)	146.0	(43.3)	30.4	(9.2)
27	3040	(809)	2000	(530)	148.0	(39.4)	29.9	(7.9)	2820	(814)	1850	(534)	139.0	(40.1)	28.0	(8.1)
28	3150	(858)	2060	(562)	154.0	(41.9)	30.1	(8.2)	2930	(712)	1920	(467)	145.0	(35.2)	28.4	(6.9)
29																
30																
31																
Avg	1660		1090		80.0		37.5		1740		1140		84.3		41.8	
n	11		11		11		11		11		11		11		11	
SD	898		589		44.2		17.7		782		513		39.2		21.5	
Min	870		571		41.5		21.2		999		655		47.9		24.5	
Max	3150		2060		154.0		80.3		2980		1950		146.0		90.1	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for August, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12	86	(104)	56	(68)	4.0	(4.8)	29.5	(35.8)	61	(66)	40	(43)	2.8	(3.1)	20.8	(22.7)
13	116	(115)	76	(76)	5.4	(5.4)	46.1	(45.7)	117	(109)	77	(72)	5.5	(5.1)	46.5	(43.5)
14	116	(131)	76	(86)	5.5	(6.1)	49.0	(55.1)	147	(134)	96	(88)	6.9	(6.3)	61.7	(56.5)
15	177	(232)	116	(152)	8.3	(10.9)	71.9	(94.3)	181	(147)	118	(97)	8.5	(6.9)	73.3	(59.7)
16	172	(149)	113	(98)	8.1	(7.0)	62.1	(53.3)	180	(135)	118	(89)	8.4	(6.3)	64.9	(48.6)
17	171	(151)	112	(99)	8.0	(7.1)	51.7	(45.1)	186	(151)	122	(99)	8.7	(7.1)	56.3	(45.4)
18	156	(164)	103	(108)	7.3	(7.7)	38.9	(41.1)	158	(148)	103	(97)	7.4	(7.0)	39.4	(37.3)
19	248	(262)	162	(172)	11.6	(12.3)	49.3	(52.2)	233	(238)	153	(156)	10.9	(11.2)	46.5	(47.7)
20	512	(540)	336	(354)	24.0	(25.3)	82.8	(87.8)	411	(424)	269	(278)	19.3	(19.9)	66.5	(68.3)
21	1510	(1580)	989	(1040)	70.8	(74.1)	201.0	(211.0)	1400	(1340)	917	(881)	65.8	(63.2)	186.0	(177.0)
22	1380	(1200)	908	(790)	65.0	(56.6)	154.0	(135.0)	1200	(1020)	785	(666)	56.3	(47.8)	133.0	(114.0)
23	1370	(1250)	896	(818)	64.2	(58.6)	128.0	(118.0)	1280	(1180)	837	(777)	60.1	(55.7)	119.0	(110.0)
24	1490	(1230)	979	(805)	70.1	(57.6)	119.0	(97.1)	1290	(1100)	845	(724)	60.7	(52.0)	102.0	(87.0)
25	1690	(1460)	1110	(960)	79.2	(68.8)	116.0	(99.7)	1400	(1210)	920	(791)	66.0	(56.8)	96.2	(82.1)
26	1580	(1270)	1040	(833)	74.4	(59.7)	94.7	(76.2)	1320	(1100)	869	(718)	62.4	(51.6)	79.3	(65.4)
27	1420	(1170)	930	(765)	66.7	(54.8)	74.4	(61.2)	1360	(1170)	892	(764)	64.1	(54.9)	71.4	(60.8)
28	1360	(1230)	895	(804)	64.2	(57.7)	63.8	(57.4)	1310	(1090)	859	(714)	61.8	(51.4)	61.4	(51.2)
29	1450	(1080)	950	(710)	68.2	(50.9)	60.3	(45.1)	1040	(862)	685	(566)	49.3	(40.7)	43.7	(36.2)
30	1060	(711)	693	(466)	49.8	(33.5)	39.9	(27.2)	1090	(739)	714	(485)	51.3	(34.9)	41.0	(28.0)
31	1180	(923)	777	(605)	55.8	(43.5)	40.4	(31.6)	1260	(1020)	828	(669)	59.6	(48.2)	43.1	(35.0)
Avg	862		566		40.5		78.6		781		512		36.8		72.6	
n	20		20		20		20		20		20		20		20	
SD	621		407		29.2		43.5		548		360		25.8		37.8	
Min	86		56		4.0		29.5		61		40		2.8		20.8	
Max	1690		1110		79.2		201.0		1400		920		66.0		186.0	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for September, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	1110 (766)	731 (502)	52.5 (36.1)	34.6 (23.9)	1140 (793)	745 (520)	53.7 (37.5)	35.3 (24.7)
2	1140 (761)	750 (499)	53.9 (35.9)	32.5 (21.7)	1300 (1090)	851 (712)	61.3 (51.3)	36.9 (31.0)
3	1390 (1040)	910 (684)	65.5 (49.2)	36.3 (27.2)	1290 (946)	843 (621)	60.8 (44.7)	33.7 (24.7)
4	1580 (1200)	1040 (785)	74.5 (56.5)	38.2 (29.1)	1430 (1060)	939 (694)	67.8 (50.1)	34.7 (25.7)
5	1520 (1060)	999 (696)	71.9 (50.1)	34.3 (24.0)	1600 (993)	1050 (651)	75.6 (47.0)	36.0 (22.4)
6	1420 (1090)	934 (714)	67.3 (51.4)	29.9 (22.8)	1510 (1010)	989 (664)	71.4 (47.9)	31.7 (21.3)
7	1370 (1010)	897 (661)	64.6 (47.6)	26.8 (19.8)	1430 (989)	939 (649)	67.8 (46.9)	28.2 (19.5)
8	1790 (1150)	1170 (751)	84.8 (54.2)	33.0 (21.1)	1500 (911)	985 (597)	71.2 (43.2)	27.7 (16.8)
9	1690 (1050)	1110 (690)	79.8 (49.8)	29.2 (18.3)	1450 (895)	952 (587)	68.8 (42.5)	25.2 (15.5)
10	1630 (1220)	1070 (799)	77.4 (57.7)	26.7 (19.9)	1590 (1030)	1040 (678)	75.4 (49.0)	26.0 (16.9)
11	2160 (1430)	1420 (937)	102.0 (67.7)	33.4 (22.0)	2350 (1600)	1540 (1050)	111.0 (75.9)	36.3 (24.6)
12	2290 (1320)	1500 (866)	108.0 (62.6)	33.6 (19.4)	2580 (1490)	1690 (978)	122.0 (70.8)	38.0 (21.9)
13	2280 (1270)	1500 (834)	108.0 (60.3)	32.0 (17.8)	2580 (1460)	1690 (957)	122.0 (69.3)	36.2 (20.4)
14	2060 (983)	1350 (644)	97.7 (46.6)	27.5 (13.1)	2230 (1090)	1460 (712)	106.0 (51.6)	29.8 (14.5)
15	1920 (743)	1260 (487)	91.2 (35.3)	24.6 (9.4)	2040 (749)	1340 (491)	97.1 (35.6)	26.1 (9.4)
16	2070 (843)	1360 (553)	98.4 (40.0)	25.4 (10.2)	2220 (828)	1460 (543)	106.0 (39.4)	27.3 (10.0)
17	2010 (649)	1320 (425)	95.7 (30.9)	23.7 (7.6)	2130 (625)	1400 (410)	102.0 (29.8)	25.3 (7.3)
18	2050 (684)	1350 (448)	97.8 (32.6)	23.3 (7.7)	2080 (590)	1360 (387)	99.4 (28.2)	23.7 (6.6)
19	2250 (798)	1470 (523)	107.0 (38.1)	24.7 (8.7)	2360 (819)	1550 (537)	113.0 (39.2)	26.0 (8.9)
20	1770 (549)	1160 (360)	84.4 (26.2)	18.7 (5.8)	2200 (551)	1440 (361)	105.0 (26.4)	23.4 (5.7)
21	1930 (798)	1270 (523)	92.3 (38.1)	19.8 (8.1)	1970 (478)	1290 (314)	94.2 (22.9)	20.2 (4.9)
22	3560 (1670)	2330 (1100)	170.0 (80.0)	35.3 (16.4)				
23	3120 (1370)	2050 (898)	150.0 (65.5)	30.2 (13.2)				
24	3300 (842)	2170 (552)	158.0 (40.4)	31.1 (8.0)				
25								
26								
27								
28								
29								
30								
Avg	1980	1300	93.9	29.4	1850	1220	88.2	29.9
n	24	24	24	24	21	21	21	21
SD	613	402	29.6	5.1	445	291	21.4	5.3
Min	1110	731	52.5	18.7	1140	745	53.7	20.2
Max	3560	2330	170.0	38.2	2580	1690	122.0	38.0

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for October, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17	-2	(8)	-1	(5)					36	(387)	24	(253)				
18	0	(8)	0	(5)					-2	(4)	-1	(3)				
19	1	(7)	0	(4)					1	(7)	1	(5)				
20	26	(122)	17	(80)					16	(46)	11	(30)				
21	22	(37)	14	(24)	1.0	(1.8)	7.5	(12.6)	21	(43)	14	(28)	1.0	(2.0)	7.5	(15.3)
22	43	(63)	28	(41)	2.0	(3.0)	17.0	(25.4)	92	(618)	60	(405)	4.3	(29.2)	37.2	(251.0)
23	139	(152)	91	(100)	6.6	(7.2)	59.0	(64.6)	135	(408)	88	(267)	6.4	(19.2)	57.2	(173.0)
24	157	(161)	103	(105)	7.4	(7.6)	64.4	(65.9)	131	(216)	86	(141)	6.2	(10.2)	52.8	(86.5)
25	190	(185)	124	(121)	9.0	(8.7)	69.1	(67.1)	196	(417)	128	(273)	9.3	(19.7)	69.0	(149.0)
26	181	(179)	119	(117)	8.6	(8.4)	55.4	(54.3)	176	(199)	115	(130)	8.3	(9.4)	51.6	(58.3)
27	105	(125)	69	(82)	4.9	(5.9)	26.6	(32.1)	117	(332)	77	(218)	5.6	(15.7)	28.5	(81.4)
28	182	(211)	119	(138)	8.6	(10.0)	37.1	(43.3)	132	(145)	87	(95)	6.2	(6.9)	25.8	(28.6)
29	434	(702)	284	(460)	20.5	(33.2)	70.6	(112.0)	402	(643)	264	(422)	19.0	(30.4)	62.5	(98.5)
30	844	(1350)	553	(886)	39.9	(63.9)	116.0	(187.0)	844	(1310)	553	(857)	39.9	(61.8)	111.0	(174.0)
31	746	(1060)	489	(694)	35.3	(50.1)	84.7	(121.0)	733	(1210)	481	(795)	34.7	(57.4)	80.3	(134.0)
Avg	204		134		13.1		55.2		202		132		12.8		53.0	
n	15		15		11		11		15		15		11		11	
SD	257		168		12.6		30.1		251		165		12.4		27.2	
Min	-2		-1		1.0		7.5		-2		-1		1.0		7.5	
Max	844		553		39.9		116.0		844		553		39.9		111.0	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for November, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	623	(891)	409	(584)	29.5	(42.2)	59.4	(85.0)	622	(904)	408	(593)	29.4	(42.8)	57.1	(83.0)
2	600	(713)	394	(468)	28.4	(33.8)	48.7	(58.1)	615	(742)	403	(486)	29.1	(35.1)	48.3	(58.4)
3	513	(740)	337	(485)	24.3	(35.0)	35.8	(51.8)	532	(804)	349	(527)	25.2	(38.1)	36.1	(54.7)
4	600	(728)	394	(477)	28.4	(34.5)	36.3	(43.8)	606	(700)	397	(459)	28.7	(33.2)	35.6	(41.1)
5	610	(774)	400	(508)	28.9	(36.7)	32.5	(41.5)	616	(711)	404	(466)	29.2	(33.7)	32.0	(37.0)
6	554	(600)	363	(394)	26.3	(28.5)	26.2	(28.7)	513	(572)	336	(375)	24.3	(27.1)	23.7	(26.6)
7																
8																
9																
10																
11	564	(537)	370	(352)	26.8	(25.5)	16.2	(15.5)	593	(570)	389	(374)	28.2	(27.0)	16.7	(16.1)
12	723	(632)	474	(415)	34.4	(30.1)	19.1	(16.7)	625	(543)	410	(356)	29.7	(25.8)	16.2	(14.1)
13	859	(728)	563	(477)	40.9	(34.7)	21.0	(17.9)	806	(687)	528	(450)	38.3	(32.6)	19.3	(16.5)
14	902	(705)	591	(462)	42.9	(33.6)	20.5	(16.1)	903	(686)	592	(450)	42.9	(32.6)	20.1	(15.4)
15	977	(715)	641	(469)	46.6	(34.1)	20.7	(15.1)	944	(707)	619	(463)	44.9	(33.6)	19.6	(14.8)
16	1260	(882)	826	(578)	60.0	(42.0)	24.9	(17.5)	1030	(741)	678	(486)	49.1	(35.2)	20.1	(14.5)
17																
18																
19																
20																
21																
22																
23																
24																
25	1550	(715)	1020	(469)	74.2	(34.2)	19.2	(8.9)	1750	(781)	1140	(512)	83.2	(37.2)	21.3	(9.6)
26	1480	(468)	968	(307)	70.7	(22.4)	17.6	(5.6)	1560	(431)	1020	(283)	74.1	(20.5)	18.2	(5.1)
27	1570	(350)	1030	(230)	75.1	(16.8)	17.9	(4.0)	1700	(350)	1120	(230)	81.2	(16.7)	19.3	(3.9)
28	1770	(376)	1160	(247)	84.8	(18.0)	19.5	(4.1)	2200	(661)	1440	(434)	105.0	(31.5)	24.0	(7.2)
29	1890	(495)	1240	(325)	90.6	(23.8)	20.1	(5.3)	2030	(704)	1330	(461)	97.0	(33.6)	21.4	(7.4)
30	1880	(603)	1230	(395)	90.1	(28.9)	19.4	(6.3)	2050	(593)	1350	(389)	97.9	(28.3)	20.9	(6.1)
Avg	1050		689		50.2		26.4		1090		718		52.1		26.1	
n	18		18		18		18		18		18		18		18	
SD	493		323		23.7		11.6		588		386		28.1		11.1	
Min	513		337		24.3		16.2		513		336		24.3		16.2	
Max	1890		1240		90.6		59.4		2200		1440		105.0		57.1	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for December, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	1890	(426)	1240	(279)	90.6	(20.5)	18.9	(4.3)	1900	(417)	1240	(274)	90.5	(19.9)	18.7	(4.2)
2	2110	(551)	1380	(361)	101.0	(26.5)	20.5	(5.3)	2060	(624)	1350	(409)	98.5	(29.8)	19.8	(5.9)
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13	24	(66)	16	(43)	1.2	(3.1)	8.5	(22.2)	17	(31)	11	(20)	0.8	(1.5)	5.8	(10.6)
14	32	(54)	21	(35)	1.5	(2.5)	12.8	(21.4)	29	(58)	19	(38)	1.3	(2.7)	11.2	(22.2)
15	36	(54)	24	(35)	1.7	(2.6)	15.3	(22.9)	35	(50)	23	(33)	1.7	(2.3)	14.8	(21.0)
16	37	(49)	24	(32)	1.7	(2.3)	15.0	(20.0)	39	(54)	25	(36)	1.8	(2.6)	15.9	(22.4)
17	43	(65)	28	(43)	2.0	(3.1)	15.7	(24.0)	38	(61)	25	(40)	1.8	(2.9)	14.2	(22.8)
18	43	(54)	28	(36)	2.1	(2.6)	13.3	(16.7)	40	(67)	26	(44)	1.9	(3.2)	12.5	(21.0)
19	41	(53)	27	(35)	1.9	(2.5)	10.2	(13.1)	39	(64)	25	(42)	1.8	(3.1)	9.9	(16.5)
20	50	(75)	33	(49)	2.4	(3.5)	10.1	(15.2)	41	(77)	27	(50)	1.9	(3.6)	8.5	(16.0)
21	136	(272)	89	(178)	6.4	(12.9)	22.2	(45.4)	117	(185)	77	(121)	5.6	(8.8)	19.5	(30.6)
22	342	(529)	224	(347)	16.2	(25.1)	45.1	(69.7)	292	(462)	191	(303)	13.9	(21.9)	40.2	(63.2)
23	398	(628)	261	(412)	18.9	(29.8)	44.3	(69.8)	341	(538)	223	(353)	16.2	(25.5)	38.8	(61.3)
24	410	(617)	269	(405)	19.5	(29.3)	38.6	(58.1)	367	(550)	240	(361)	17.4	(26.1)	35.2	(52.8)
25	418	(647)	274	(424)	19.9	(30.7)	33.3	(51.3)	385	(582)	252	(381)	18.3	(27.6)	31.3	(47.2)
26	458	(652)	300	(428)	21.7	(31.0)	31.6	(45.2)	469	(640)	307	(420)	22.3	(30.4)	33.0	(45.1)
27	656	(806)	430	(529)	31.1	(38.3)	39.4	(48.2)	653	(807)	428	(529)	31.1	(38.4)	39.9	(49.0)
28	645	(764)	423	(501)	30.7	(36.3)	34.2	(40.3)	662	(769)	434	(504)	31.5	(36.6)	35.6	(41.3)
29	620	(687)	406	(451)	29.5	(32.7)	29.1	(32.5)	652	(754)	427	(494)	31.0	(35.9)	31.1	(36.0)
30	532	(602)	349	(395)	25.3	(28.7)	22.4	(25.4)	563	(695)	369	(456)	26.8	(33.1)	24.0	(29.7)
31	481	(609)	315	(399)	22.9	(29.0)	18.2	(23.2)	488	(617)	320	(405)	23.3	(29.4)	18.8	(23.8)
Avg	448		294		21.4		23.7		439		288		20.9		22.8	
n	21		21		21		21		21		21		21		21	
SD	553		363		26.5		11.4		551		361		26.3		11.0	
Min	24		16		1.2		8.5		17		11		0.8		5.8	
Max	2110		1380		101.0		45.1		2060		1350		98.5		40.2	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for January, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	459	(489)	301	(320)	21.8	(23.2)	15.7	(16.8)	428	(465)	281	(305)	20.4	(22.2)	14.9	(16.2)
2	475	(477)	312	(313)	22.6	(22.7)	14.9	(14.9)	448	(449)	294	(294)	21.4	(21.4)	14.2	(14.2)
3	517	(479)	339	(314)	24.6	(22.8)	14.8	(13.7)	496	(466)	325	(306)	23.6	(22.2)	14.3	(13.5)
4	599	(579)	393	(380)	28.5	(27.6)	15.8	(15.3)								
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21	2600	(1080)	1710	(708)	125.0	(51.7)	27.7	(11.5)	2280	(491)	1490	(322)	110.0	(23.7)	24.5	(5.4)
22	2280	(601)	1500	(394)	109.0	(28.8)	23.4	(6.3)	1910	(368)	1250	(241)	92.3	(17.7)	19.9	(3.9)
23	1710	(300)	1120	(197)	82.1	(14.4)	17.1	(3.0)	1740	(330)	1140	(216)	83.9	(15.9)	17.5	(3.4)
24	1690	(592)	1110	(388)	81.0	(28.4)	16.3	(5.7)	1750	(439)	1150	(288)	84.4	(21.2)	17.1	(4.3)
25	2050	(455)	1350	(298)	98.6	(21.8)	19.3	(4.3)	2230	(459)	1460	(301)	108.0	(22.2)	21.2	(4.4)
26																
27																
28																
29																
30																
31																
Avg	1380		903		65.9		18.3		1410		924		68.0		18.0	
n	9		9		9		9		8		8		8		8	
SD	816		535		39.2		4.2		760		498		36.8		3.4	
Min	459		301		21.8		14.8		428		281		20.4		14.2	
Max	2600		1710		125.0		27.7		2280		1490		110.0		24.5	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for February, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6	1	(8)	1	(6)					2	(3)	1	(2)				
7	2	(8)	2	(5)					3	(7)	2	(5)				
8	2	(5)	2	(3)					3	(6)	2	(4)				
9									12	(42)	8	(28)				
10	18	(43)	12	(28)	0.9	(2.0)	6.2	(14.8)	15	(25)	10	(16)	0.7	(1.2)	4.9	(8.3)
11	20	(42)	13	(28)	0.9	(2.0)	7.9	(16.8)	19	(57)	12	(38)	0.9	(2.7)	7.3	(22.7)
12									22	(29)	15	(19)	1.0	(1.4)	9.3	(12.2)
13	29	(52)	19	(34)	1.4	(2.5)	11.8	(21.5)	23	(39)	15	(25)	1.1	(1.8)	9.6	(15.7)
14	23	(30)	15	(20)	1.1	(1.4)	8.6	(11.2)	24	(32)	16	(21)	1.1	(1.5)	9.0	(11.8)
15	34	(45)	22	(29)	1.6	(2.1)	10.3	(13.4)	36	(78)	23	(51)	1.7	(3.7)	10.9	(23.7)
16	38	(48)	25	(32)	1.8	(2.3)	9.6	(12.1)	41	(53)	27	(35)	1.9	(2.5)	10.4	(13.2)
17	55	(89)	36	(58)	2.6	(4.2)	11.2	(18.1)	57	(88)	37	(58)	2.7	(4.1)	11.6	(17.9)
18	95	(149)	62	(97)	4.5	(7.1)	15.8	(24.7)	104	(164)	68	(107)	4.9	(7.7)	17.2	(27.2)
19	485	(703)	318	(461)	23.1	(33.4)	65.8	(95.4)	435	(648)	286	(425)	20.5	(30.5)	58.8	(86.9)
20									501	(871)	328	(571)	23.6	(41.0)	56.6	(98.2)
21									513	(751)	336	(492)	24.1	(35.3)	48.9	(71.9)
22									455	(670)	298	(439)	21.4	(31.6)	36.9	(54.4)
23									468	(630)	307	(413)	22.1	(29.7)	32.7	(43.9)
24									629	(982)	412	(644)	29.7	(46.4)	38.2	(59.3)
25									773	(1180)	507	(771)	36.5	(55.6)	41.3	(62.8)
26									651	(555)	427	(364)	30.8	(26.3)	30.9	(26.4)
27									611	(572)	401	(375)	28.9	(27.1)	25.8	(24.0)
28									651	(514)	427	(337)	30.9	(24.4)	24.9	(19.5)
Avg	67		44		4.2		16.3		263		172		15.0		25.5	
n	12		12		9		9		23		23		19		19	
SD	128		84		6.8		17.7		278		182		13.1		17.0	
Min	1		1		0.9		6.2		2		1		0.7		4.9	
Max	485		318		23.1		65.8		773		507		36.5		58.8	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for March, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1					559 (447)	367 (293)	26.5 (21.2)	19.4 (15.5)
2					862 (595)	566 (390)	41.0 (28.3)	27.3 (19.0)
3					898 (796)	589 (522)	42.7 (37.8)	26.0 (23.0)
4					996 (966)	653 (633)	47.4 (45.9)	26.5 (25.8)
5					1040 (985)	681 (646)	49.4 (46.9)	25.6 (24.3)
6					1070 (1010)	700 (659)	50.8 (47.9)	24.4 (23.0)
7					1120 (1530)	735 (1000)	53.4 (72.9)	23.9 (33.1)
8					1160 (1320)	763 (868)	55.5 (63.1)	23.2 (26.6)
9					1130 (1050)	740 (690)	53.9 (50.3)	21.1 (19.7)
10					1260 (1830)	824 (1200)	60.1 (87.6)	22.2 (32.9)
11					1030 (921)	677 (604)	49.4 (44.1)	17.2 (15.3)
12								
13					1480 (1010)	973 (661)	71.1 (48.3)	22.2 (15.2)
14					1280 (890)	842 (584)	61.6 (42.7)	18.3 (12.6)
15					1300 (776)	853 (509)	62.4 (37.2)	17.7 (10.6)
16					1280 (574)	837 (377)	61.3 (27.6)	16.6 (7.5)
17					1350 (593)	883 (389)	64.8 (28.5)	16.8 (7.4)
18					1720 (775)	1130 (508)	83.0 (37.3)	20.7 (9.2)
19					1960 (986)	1290 (646)	94.6 (47.5)	22.6 (11.3)
20					2100 (1150)	1370 (755)	101.0 (55.6)	23.3 (12.8)
21					2100 (673)	1380 (442)	102.0 (32.5)	22.7 (7.3)
22					2070 (826)	1350 (542)	100.0 (40.0)	21.5 (8.6)
23					2610 (1520)	1710 (995)	126.0 (73.6)	26.4 (15.4)
24					2410 (987)	1580 (647)	117.0 (47.9)	23.7 (9.7)
25					2510 (1070)	1650 (702)	122.0 (52.1)	24.0 (10.2)
26								
27								
28								
29								
30								
31								
Avg					1470	964	70.7	22.2
n	0	0	0	0	24	24	24	24
SD					559	367	27.4	3.1
Min					559	367	26.5	16.6
Max					2610	1710	126.0	27.3

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for April, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21					142 (130)	93 (85)	6.8 (6.2)	16.2 (14.8)
22					142 (129)	93 (85)	6.7 (6.1)	13.6 (12.4)
23					127 (139)	83 (91)	6.1 (6.6)	10.4 (11.5)
24					124 (167)	82 (110)	5.9 (8.0)	8.7 (11.6)
25					148 (177)	97 (116)	7.1 (8.4)	9.1 (10.8)
26					182 (243)	119 (159)	8.7 (11.6)	9.8 (13.0)
27					149 (167)	98 (109)	7.1 (8.0)	7.1 (8.0)
28					93 (109)	61 (71)	4.4 (5.2)	4.0 (4.7)
29					104 (96)	68 (63)	5.0 (4.6)	4.0 (3.7)
30					108 (98)	71 (65)	5.2 (4.7)	3.8 (3.5)
Avg					132	87	6.3	8.7
n	0	0	0	0	10	10	10	10
SD					25	16	1.2	3.9
Min					93	61	4.4	3.8
Max					182	119	8.7	16.2

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for May, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5									360	(256)	236	(168)	17.3	(12.3)	8.3	(5.8)
6									372	(261)	244	(171)	17.9	(12.5)	7.9	(5.6)
7									436	(418)	286	(274)	20.9	(20.1)	8.7	(8.5)
8									529	(501)	347	(328)	25.4	(24.0)	9.9	(9.5)
9									677	(592)	444	(388)	32.5	(28.4)	11.9	(10.4)
10									681	(444)	446	(291)	32.7	(21.3)	11.3	(7.4)
11									1090	(888)	713	(582)	52.3	(42.7)	17.1	(13.8)
12	1250	(633)	820	(415)	60.3	(30.5)	18.8	(9.5)	1460	(769)	960	(504)	70.5	(37.0)	22.0	(11.5)
13	1600	(931)	1050	(611)	77.2	(44.9)	22.9	(13.2)	1610	(936)	1050	(614)	77.6	(45.2)	23.0	(13.2)
14	1550	(780)	1010	(512)	74.6	(37.6)	21.1	(10.6)	1800	(983)	1180	(645)	87.0	(47.4)	24.6	(13.3)
15	1280	(478)	840	(313)	61.9	(23.1)	16.8	(6.2)	1520	(554)	996	(363)	73.4	(26.8)	19.9	(7.2)
16	1490	(806)	978	(529)	72.1	(39.0)	18.7	(10.1)	1450	(732)	952	(480)	70.2	(35.4)	18.2	(9.2)
17	1570	(923)	1030	(605)	75.9	(44.7)	18.9	(11.2)	1690	(922)	1110	(605)	82.0	(44.7)	20.5	(11.2)
18	1850	(948)	1210	(622)	89.3	(45.9)	21.4	(11.0)	1910	(932)	1250	(611)	92.6	(45.2)	22.2	(10.9)
19	2340	(1050)	1540	(686)	114.0	(50.7)	26.2	(11.8)	2060	(927)	1350	(608)	100.0	(45.1)	23.1	(10.5)
20	2550	(843)	1670	(553)	124.0	(40.9)	27.5	(9.1)	2460	(903)	1620	(592)	120.0	(43.9)	26.7	(9.7)
21	2220	(1200)	1460	(789)	108.0	(58.4)	23.2	(12.5)	2370	(1320)	1550	(867)	116.0	(64.6)	24.9	(13.9)
22	2620	(870)	1720	(571)	127.0	(42.3)	26.5	(8.7)								
23	2770	(703)	1820	(461)	135.0	(34.2)	27.3	(6.9)								
24																
25	2760	(689)	1810	(452)	134.0	(33.6)	25.7	(6.4)								
26																
27																
28																
29																
30																
31																
Avg	1990		1300		96.4		22.7		1320		867		64.0		17.7	
n	13		13		13		13		17		17		17		17	
SD	550		360		27.0		3.6		683		448		33.3		6.4	
Min	1250		820		60.3		16.8		360		236		17.3		7.9	
Max	2770		1820		135.0		27.5		2460		1620		120.0		26.7	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for June, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6	35	(64)	23	(42)	1.6	(3.0)	13.9	(25.8)	34	(48)	22	(31)	1.6	(2.3)	11.8	(16.7)
7	46	(65)	30	(42)	2.2	(3.1)	19.3	(27.5)	56	(81)	37	(53)	2.7	(3.8)	22.7	(32.9)
8	57	(71)	37	(46)	2.7	(3.4)	23.3	(29.0)	57	(80)	38	(52)	2.7	(3.8)	24.3	(33.8)
9	67	(84)	44	(55)	3.2	(4.0)	24.2	(30.3)	52	(63)	34	(42)	2.5	(3.0)	21.4	(26.0)
10	83	(95)	54	(63)	3.9	(4.5)	25.1	(28.7)	67	(77)	44	(50)	3.2	(3.6)	24.1	(27.6)
11	80	(85)	52	(56)	3.8	(4.0)	19.5	(20.7)	93	(98)	61	(64)	4.4	(4.6)	27.7	(29.0)
12	105	(114)	69	(75)	5.0	(5.4)	20.8	(22.5)	110	(117)	72	(77)	5.2	(5.5)	26.9	(28.4)
13	119	(122)	78	(80)	5.6	(5.8)	19.3	(19.8)	148	(165)	97	(108)	7.0	(7.8)	29.5	(32.8)
14	576	(719)	378	(471)	27.3	(34.1)	76.3	(95.2)	429	(612)	281	(401)	20.4	(29.1)	69.2	(98.8)
15	562	(717)	368	(470)	26.7	(34.1)	62.4	(79.4)	565	(821)	370	(539)	26.8	(39.0)	75.7	(110.0)
16	556	(533)	365	(349)	26.4	(25.3)	52.0	(49.8)	592	(612)	388	(402)	28.2	(29.1)	65.7	(68.0)
17	635	(526)	416	(345)	30.2	(25.0)	50.6	(42.0)	630	(588)	413	(386)	30.0	(28.0)	59.1	(55.6)
18	680	(612)	446	(402)	32.4	(29.1)	46.6	(41.5)	664	(637)	436	(418)	31.6	(30.3)	52.9	(50.4)
19	681	(774)	447	(507)	32.4	(36.8)	40.8	(45.8)	654	(792)	429	(520)	31.2	(37.7)	45.0	(53.8)
20	701	(634)	460	(416)	33.4	(30.2)	37.1	(33.3)	652	(646)	427	(424)	31.0	(30.8)	39.2	(38.8)
21	606	(488)	397	(320)	28.9	(23.2)	28.3	(22.7)	655	(576)	430	(378)	31.2	(27.4)	34.6	(30.3)
22	422	(570)	277	(374)	20.1	(27.2)	17.6	(23.7)	539	(683)	353	(448)	25.7	(32.6)	25.2	(31.9)
23	587	(695)	385	(456)	28.0	(33.2)	22.1	(26.2)	834	(912)	547	(598)	39.8	(43.5)	34.9	(37.9)
24	670	(909)	439	(596)	32.0	(43.4)	23.0	(31.0)	697	(840)	457	(551)	33.3	(40.1)	26.4	(31.6)
25																
26																
27																
28																
29																
30																
Avg	382		251		18.2		32.7		396		260		18.9		37.7	
n	19		19		19		19		19		19		19		19	
SD	270		177		12.9		17.0		283		185		13.5		17.9	
Min	35		23		1.6		13.9		34		22		1.6		11.8	
Max	701		460		33.4		76.3		834		547		39.8		75.7	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for July, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6																
7																
8																
9	1530	(718)	1000	(471)	74.3	(34.8)	20.0	(9.4)	1690	(822)	1110	(539)	82.0	(39.9)	23.1	(11.2)
10	1650	(859)	1080	(563)	80.3	(41.8)	20.7	(10.6)	1850	(942)	1210	(618)	90.0	(45.8)	24.2	(12.2)
11	1830	(865)	1200	(567)	88.9	(42.1)	22.0	(10.5)	1830	(888)	1200	(582)	89.2	(43.2)	23.0	(11.2)
12	1480	(720)	970	(472)	72.0	(35.1)	17.2	(8.4)	1660	(738)	1090	(484)	81.1	(36.0)	20.1	(8.9)
13	1360	(707)	891	(464)	66.3	(34.5)	15.2	(7.9)								
14	1420	(714)	933	(468)	69.6	(34.9)	15.4	(7.8)								
15																
16	1710	(588)	1120	(386)	83.6	(28.8)	17.4	(6.1)								
17	1710	(649)	1120	(426)	83.9	(31.9)	16.9	(6.5)								
18	1800	(680)	1180	(446)	88.4	(33.5)	17.4	(6.7)								
19	1310	(489)	862	(320)	64.8	(24.1)	12.4	(4.6)								
20																
21																
22																
23																
24																
25																
26																
27																
28	-1	(12)	-1	(8)												
29	0	(5)	0	(3)												
30	26	(55)	17	(36)												
31	33	(41)	22	(27)	1.7	(2.1)	12.9	(16.2)								
Avg	1130		742		70.3		17.0		1760		1150		85.6		22.6	
n	14		14		11		11		4		4		4		4	
SD	722		474		23.2		2.9		84		55		4.0		1.5	
Min	-1		-1		1.7		12.4		1660		1090		81.1		20.1	
Max	1830		1200		88.9		22.0		1850		1210		90.0		24.2	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for August, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	54	(60)	35	(39)	2.8	(3.1)	24.1	(26.6)								
2	53	(56)	35	(37)	2.8	(2.9)	24.9	(26.4)								
3	45	(51)	29	(34)	2.3	(2.7)	19.8	(22.7)								
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17	1470	(1300)	966	(850)	77.3	(68.0)	67.2	(58.9)	1260	(1140)	826	(751)	66.2	(60.2)	59.2	(53.9)
18	1100	(977)	721	(641)	57.6	(51.2)	45.4	(40.4)	1050	(866)	686	(568)	55.0	(45.6)	44.3	(36.9)
19	894	(755)	586	(495)	46.9	(39.6)	33.4	(28.2)	870	(676)	571	(443)	45.8	(35.6)	33.3	(26.0)
20	818	(626)	537	(410)	43.0	(32.9)	27.9	(21.2)	828	(622)	543	(408)	43.6	(32.7)	28.8	(21.6)
21	732	(669)	480	(438)	38.4	(35.1)	22.9	(20.8)	713	(573)	468	(376)	37.6	(30.2)	22.8	(18.3)
22	644	(812)	422	(532)	33.8	(42.7)	18.5	(23.1)	721	(762)	473	(500)	38.0	(40.2)	21.1	(22.1)
23	647	(554)	424	(363)	34.0	(29.1)	17.2	(14.7)	720	(537)	472	(352)	37.9	(28.3)	19.5	(14.5)
24	756	(691)	496	(453)	39.8	(36.3)	18.7	(17.0)	893	(734)	586	(481)	47.1	(38.7)	22.5	(18.4)
25	812	(749)	532	(491)	42.7	(39.4)	18.7	(17.3)	892	(734)	585	(481)	47.1	(38.7)	20.9	(17.2)
26	892	(638)	585	(419)	47.0	(33.6)	19.2	(13.8)	1110	(942)	729	(618)	58.6	(49.7)	24.3	(20.6)
27	889	(561)	583	(368)	46.8	(29.6)	18.0	(11.4)	1000	(661)	657	(433)	52.9	(34.9)	20.6	(13.6)
28	977	(604)	641	(396)	51.5	(31.8)	18.6	(11.5)	1140	(726)	751	(476)	60.5	(38.4)	22.2	(14.0)
29	1010	(647)	665	(424)	53.5	(34.1)	18.3	(11.6)	1120	(704)	734	(462)	59.2	(37.2)	20.5	(12.9)
30	1040	(597)	683	(391)	55.0	(31.5)	17.8	(10.3)	1160	(690)	761	(452)	61.4	(36.5)	20.1	(12.0)
31	1010	(506)	661	(332)	53.3	(26.7)	16.4	(8.2)	1130	(608)	741	(399)	59.8	(32.2)	18.6	(10.0)
Avg	769		505		40.5		24.8		974		639		51.4		26.6	
n	18		18		18		18		15		15		15		15	
SD	370		243		19.5		12.4		175		115		9.3		10.9	
Min	45		29		2.3		16.4		713		468		37.6		18.6	
Max	1470		966		77.3		67.2		1260		826		66.2		59.2	

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Table E5. Daily means (SD) of PM10 emissions at Site CA1B for September, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	862 (544)	565 (357)	45.5 (28.8)	13.4 (8.4)	1030 (634)	675 (416)	54.5 (33.6)	16.1 (9.9)
2	1110 (731)	729 (479)	58.8 (38.6)	16.5 (10.8)	1170 (782)	770 (513)	62.2 (41.4)	17.6 (11.7)
3	1180 (825)	775 (541)	62.5 (43.7)	16.8 (11.8)	1280 (932)	842 (611)	68.1 (49.4)	18.4 (13.3)
4	1420 (652)	929 (428)	75.0 (34.5)	19.2 (8.8)	1730 (927)	1130 (608)	91.6 (49.2)	23.7 (12.6)
5	1520 (831)	994 (545)	80.3 (44.0)	19.8 (10.8)	1550 (813)	1020 (533)	82.3 (43.2)	20.4 (10.7)
6	1740 (884)	1140 (580)	92.3 (46.9)	21.9 (11.1)	1800 (1020)	1180 (668)	95.5 (54.1)	22.8 (12.8)
7	1520 (811)	997 (532)	80.7 (43.0)	18.5 (9.9)	1830 (1000)	1200 (656)	97.5 (53.2)	22.5 (12.3)
8	1580 (657)	1030 (431)	83.7 (34.9)	18.5 (7.8)	1840 (693)	1210 (454)	98.1 (36.9)	21.9 (8.3)
9	1730 (672)	1140 (441)	92.1 (35.7)	19.7 (7.7)	2140 (626)	1400 (411)	114.0 (33.4)	24.6 (7.2)
10	1870 (552)	1230 (362)	99.6 (29.4)	20.6 (6.1)				
11	1880 (656)	1240 (430)	100.0 (35.0)	20.2 (7.2)				
12	1890 (677)	1240 (444)	101.0 (36.2)	19.7 (7.1)				
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
Avg	1530	1000	81.0	18.7	1600	1050	84.9	20.9
n	12	12	12	12	9	9	9	9
SD	318	209	17.1	2.2	345	226	18.5	2.8
Min	862	565	45.5	13.4	1030	675	54.5	16.1
Max	1890	1240	101.0	21.9	2140	1400	114.0	24.6

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Table E6. PM2.5 emissions

Table E6. Daily means (SD) of PM2.5 emissions at Site CA1B for February, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5	81	(99)	53	(65)	4.0	(4.8)	1.3	(1.6)	100	(110)	66	(72)	4.8	(5.3)	1.8	(2.0)
6	79	(62)	52	(40)	3.8	(3.0)	1.2	(0.9)	77	(58)	50	(38)	3.7	(2.8)	1.3	(1.0)
7	84	(68)	55	(45)	4.1	(3.3)	1.2	(1.0)	89	(69)	59	(45)	4.3	(3.3)	1.4	(1.1)
8	92	(72)	60	(47)	4.5	(3.5)	1.3	(1.0)	95	(75)	62	(49)	4.6	(3.6)	1.4	(1.2)
9	92	(82)	61	(54)	4.5	(4.0)	1.2	(1.1)	84	(68)	55	(45)	4.1	(3.3)	1.2	(1.0)
10	98	(77)	64	(50)	4.8	(3.7)	1.2	(1.0)	98	(74)	64	(48)	4.7	(3.6)	1.4	(1.0)
11	100	(76)	66	(50)	4.9	(3.7)	1.2	(0.9)	103	(73)	68	(48)	5.0	(3.5)	1.4	(1.0)
12	105	(81)	69	(53)	5.1	(3.9)	1.2	(0.9)	98	(71)	64	(47)	4.8	(3.4)	1.2	(0.9)
13	115	(95)	75	(63)	5.6	(4.7)	1.3	(1.1)	107	(75)	70	(49)	5.2	(3.7)	1.3	(0.9)
14	160	(105)	105	(69)	7.8	(5.1)	1.7	(1.1)	133	(91)	87	(60)	6.4	(4.4)	1.5	(1.1)
15	148	(108)	97	(71)	7.2	(5.3)	1.6	(1.1)	141	(101)	92	(66)	6.8	(4.9)	1.6	(1.1)
16	184	(88)	121	(58)	9.0	(4.3)	1.9	(0.9)	138	(73)	90	(48)	6.7	(3.6)	1.5	(0.8)
17	138	(88)	90	(58)	6.7	(4.3)	1.4	(0.9)	132	(78)	87	(51)	6.4	(3.8)	1.4	(0.8)
18	84	(71)	55	(46)	4.1	(3.5)	0.8	(0.7)	136	(68)	89	(45)	6.6	(3.3)	1.4	(0.7)
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
Avg	111		73		5.4		1.3		109		72		5.3		1.4	
n	14		14		14		14		14		14		14		14	
SD	32		21		1.6		0.2		21		14		1.0		0.1	
Min	79		52		3.8		0.8		77		50		3.7		1.2	
Max	184		121		9.0		1.9		141		92		6.8		1.8	

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Table E6. Daily means (SD) of PM2.5 emissions at Site CA1B for July, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6																
7																
8																
9																
10	46	(153)	30	(100)	2.2	(7.3)	0.9	(3.2)	146	(85)	96	(56)	7.0	(4.1)	3.1	(1.8)
11	65	(129)	43	(85)	3.1	(6.2)	1.3	(2.5)	114	(42)	74	(28)	5.5	(2.0)	2.3	(0.8)
12	79	(104)	52	(68)	3.8	(5.0)	1.5	(1.9)	102	(42)	67	(27)	4.9	(2.0)	1.9	(0.8)
13	74	(92)	49	(61)	3.5	(4.4)	1.3	(1.6)	111	(46)	73	(30)	5.4	(2.2)	2.0	(0.8)
14	113	(95)	74	(62)	5.4	(4.5)	1.9	(1.6)	126	(55)	82	(36)	6.1	(2.6)	2.1	(0.9)
15	125	(80)	82	(53)	6.0	(3.9)	2.0	(1.2)	128	(52)	84	(34)	6.2	(2.5)	2.0	(0.8)
16	108	(81)	71	(53)	5.2	(3.9)	1.6	(1.2)	140	(64)	92	(42)	6.8	(3.1)	2.1	(0.9)
17	145	(110)	95	(72)	7.0	(5.3)	2.0	(1.6)	179	(103)	118	(68)	8.7	(5.0)	2.6	(1.5)
18	164	(68)	107	(45)	7.9	(3.3)	2.2	(0.9)	205	(92)	134	(61)	9.9	(4.5)	2.8	(1.2)
19	174	(50)	114	(33)	8.4	(2.4)	2.2	(0.6)	192	(60)	126	(40)	9.3	(2.9)	2.5	(0.8)
20	177	(51)	116	(34)	8.6	(2.5)	2.2	(0.6)	179	(54)	118	(35)	8.7	(2.6)	2.2	(0.7)
21	195	(54)	128	(35)	9.4	(2.6)	2.3	(0.6)	216	(74)	141	(48)	10.5	(3.6)	2.6	(0.9)
22	207	(69)	136	(45)	10.0	(3.3)	2.4	(0.8)	194	(66)	127	(43)	9.5	(3.2)	2.2	(0.7)
23	228	(66)	149	(43)	11.0	(3.2)	2.5	(0.7)	216	(62)	142	(41)	10.5	(3.1)	2.4	(0.7)
24	243	(67)	160	(44)	11.8	(3.2)	2.6	(0.7)	235	(61)	154	(40)	11.5	(3.0)	2.6	(0.7)
25																
26																
27																
28																
29																
30																
31																
Avg	143		94		6.9		1.9		166		109		8.0		2.4	
n	15		15		15		15		15		15		15		15	
SD	60		39		2.9		0.5		42		28		2.1		0.3	
Min	46		30		2.2		0.9		102		67		4.9		1.9	
Max	243		160		11.8		2.6		235		154		11.5		3.1	

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Table E6. Daily means (SD) of PM2.5 emissions at Site CA1B for January, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5																
6	48	(49)	32	(32)	2.3	(2.3)	1.1	(1.1)	45	(43)	30	(29)	2.2	(2.1)	1.0	(1.0)
7	49	(58)	32	(38)	2.3	(2.8)	1.0	(1.2)	47	(55)	31	(36)	2.3	(2.6)	1.0	(1.2)
8	61	(60)	40	(39)	2.9	(2.8)	1.2	(1.2)	62	(63)	40	(41)	3.0	(3.0)	1.2	(1.3)
9	79	(57)	52	(37)	3.7	(2.7)	1.5	(1.1)	74	(52)	48	(34)	3.5	(2.5)	1.4	(1.0)
10	74	(62)	49	(40)	3.5	(2.9)	1.3	(1.1)	71	(57)	47	(37)	3.4	(2.7)	1.3	(1.0)
11	81	(60)	53	(39)	3.9	(2.9)	1.3	(1.0)	74	(55)	49	(36)	3.6	(2.6)	1.2	(0.9)
12	88	(60)	58	(40)	4.2	(2.9)	1.4	(0.9)	79	(54)	52	(36)	3.8	(2.6)	1.3	(0.9)
13	122	(163)	80	(107)	5.9	(7.8)	1.8	(2.4)	77	(55)	50	(36)	3.7	(2.7)	1.2	(0.8)
14	123	(77)	81	(51)	5.9	(3.7)	1.7	(1.1)	94	(59)	62	(38)	4.5	(2.8)	1.3	(0.8)
15	125	(77)	82	(50)	6.0	(3.7)	1.7	(1.0)	148	(121)	97	(79)	7.1	(5.8)	2.0	(1.6)
16	132	(48)	87	(31)	6.3	(2.3)	1.7	(0.6)	124	(45)	81	(30)	6.0	(2.2)	1.6	(0.6)
17	133	(52)	87	(34)	6.3	(2.5)	1.6	(0.6)	118	(48)	77	(32)	5.7	(2.3)	1.5	(0.6)
18	161	(53)	105	(35)	7.7	(2.5)	1.9	(0.6)	143	(47)	94	(31)	6.9	(2.3)	1.7	(0.6)
19	185	(52)	122	(34)	8.9	(2.5)	2.1	(0.6)	180	(241)	118	(158)	8.7	(11.6)	2.1	(2.8)
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Avg	104		68		5.0		1.5		95		63		4.6		1.4	
n	14		14		14		14		14		14		14		14	
SD	41		27		1.9		0.3		39		26		1.9		0.3	
Min	48		32		2.3		1.0		45		30		2.2		1.0	
Max	185		122		8.9		2.1		180		118		8.7		2.1	

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Table E6. Daily means (SD) of PM2.5 emissions at Site CA1B for September, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
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22								
23								
24								
25								
26								
27	1 (9)	1 (6)	0.1 (0.4)	0.5 (3.3)				
28	6 (8)	4 (5)	0.3 (0.4)	2.7 (3.4)				
29	5 (7)	3 (5)	0.3 (0.4)	2.4 (3.4)				
30	4 (8)	3 (5)	0.2 (0.4)	1.8 (3.4)				
Avg	4	3	0.2	1.9				
n	4	4	4	4	0	0	0	0
SD	2	1	0.1	0.9				
Min	1	1	0.1	0.5				
Max	6	4	0.3	2.7				

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Table E6. Daily means (SD) of PM2.5 emissions at Site CA1B for October, 2009.

Day	House 10								House 12			
	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	5	(7)	3	(5)	0.3	(0.4)	1.9	(2.8)				
2	5	(8)	3	(5)	0.3	(0.4)	1.7	(2.5)				
3	6	(7)	4	(5)	0.3	(0.4)	1.7	(2.0)				
4	10	(12)	7	(8)	0.5	(0.6)	2.2	(2.7)				
5	11	(15)	7	(10)	0.6	(0.8)	2.0	(2.6)				
6	20	(24)	13	(16)	1.0	(1.3)	2.9	(3.5)				
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8												
9												
10												
11												
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26												
27												
28												
29												
30												
31												
Avg	10		6		0.5		2.1					
n	6		6		6		6		0	0	0	0
SD	5		3		0.3		0.4					
Min	5		3		0.3		1.7					
Max	20		13		1.0		2.9					

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Table E7. TSP emissions

Table E7. Daily means (SD) of TSP emissions at Site CA1B for December, 2007.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	1840 (1960)	1210 (1290)	88.8 (94.7)	36.5 (39.0)	2150 (2250)	1410 (1480)	103.0 (108.0)	42.5 (45.0)
13	1980 (1860)	1300 (1220)	95.7 (89.7)	37.0 (34.8)	1940 (1870)	1270 (1230)	93.1 (89.7)	36.1 (35.0)
14	2030 (1830)	1330 (1200)	98.0 (88.4)	35.7 (32.2)	1600 (1430)	1050 (940)	76.7 (68.8)	28.0 (25.2)
15	2080 (1730)	1360 (1130)	100.0 (83.6)	34.5 (28.9)	1530 (1270)	1010 (830)	73.7 (60.7)	25.4 (21.1)
16	2130 (1550)	1390 (1010)	103.0 (74.8)	33.4 (24.4)	1470 (1130)	962 (744)	70.5 (54.5)	23.0 (17.8)
17	1960 (1520)	1290 (994)	94.8 (73.3)	29.3 (22.8)	1750 (2170)	1150 (1420)	84.1 (104.0)	26.1 (32.6)
18	2060 (1650)	1350 (1080)	99.5 (79.9)	29.3 (23.5)	2320 (2010)	1520 (1320)	111.0 (96.6)	32.8 (28.4)
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg	2010	1320	97.1	33.7	1820	1200	87.5	30.6
n	7	7	7	7	7	7	7	7
SD	87	57	4.2	3.0	300	196	14.4	6.4
Min	1840	1210	88.8	29.3	1470	962	70.5	23.0
Max	2130	1390	103.0	37.0	2320	1520	111.0	42.5

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for May, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
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6								
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10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	3610 (2330)	2370 (1530)	173.0 (111.0)	66.9 (43.1)	4310 (2810)	2830 (1840)	206.0 (134.0)	79.0 (51.4)
21	3750 (2490)	2460 (1630)	180.0 (119.0)	65.6 (43.6)	4890 (3320)	3200 (2170)	233.0 (158.0)	84.3 (56.9)
22	4030 (2630)	2640 (1720)	193.0 (126.0)	66.5 (43.5)	6220 (4150)	4080 (2720)	297.0 (198.0)	101.0 (67.6)
23	4360 (2870)	2860 (1880)	209.0 (137.0)	68.2 (44.9)	5450 (3350)	3580 (2200)	261.0 (160.0)	84.5 (52.0)
24	3590 (2260)	2350 (1480)	172.0 (108.0)	53.5 (33.9)	3890 (2310)	2550 (1520)	186.0 (111.0)	57.4 (34.3)
25	3250 (1920)	2130 (1260)	156.0 (92.1)	46.1 (27.3)	3570 (2260)	2340 (1480)	171.0 (108.0)	50.1 (31.8)
26	4450 (2650)	2920 (1740)	214.0 (127.0)	60.0 (35.6)				
27	4760 (1770)	3120 (1160)	229.0 (85.1)	61.5 (22.6)				
28								
29								
30								
31								
Avg	3980	2610	191.0	61.0	4720	3100	226.0	76.1
n	8	8	8	8	6	6	6	6
SD	481	315	23.2	7.2	911	597	43.5	17.4
Min	3250	2130	156.0	46.1	3570	2340	171.0	50.1
Max	4760	3120	229.0	68.2	6220	4080	297.0	101.0

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for November, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18	3250 (2120)	2130 (1390)	155.0 (101.0)	56.9 (37.3)				
19	3250 (2260)	2130 (1480)	155.0 (108.0)	53.7 (37.5)	3220 (2500)	2110 (1640)	153.0 (119.0)	52.5 (40.8)
20	3620 (3200)	2370 (2100)	173.0 (153.0)	56.7 (50.1)	2790 (2390)	1830 (1570)	133.0 (114.0)	43.0 (36.9)
21	2950 (2350)	1930 (1540)	141.0 (112.0)	43.9 (35.1)	3500 (3030)	2290 (1990)	166.0 (144.0)	51.2 (44.6)
22	2670 (2020)	1750 (1330)	128.0 (96.7)	37.8 (28.7)	3410 (2710)	2240 (1780)	162.0 (129.0)	47.6 (37.9)
23	3150 (2230)	2070 (1460)	151.0 (107.0)	42.5 (30.1)	3890 (2790)	2550 (1830)	185.0 (133.0)	51.7 (37.3)
24								
25								
26								
27								
28								
29								
30								
Avg	3150	2060	150.0	48.6	3360	2200	160.0	49.2
n	6	6	6	6	5	5	5	5
SD	291	191	13.8	7.5	358	235	17.1	3.5
Min	2670	1750	128.0	37.8	2790	1830	133.0	43.0
Max	3620	2370	173.0	56.9	3890	2550	185.0	52.5

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for April, 2009.

Day	House 10				House 12							
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}		mg $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11					4	(8)	3	(6)	0.2	(0.4)	1.3	(2.8)
12					4	(8)	3	(5)	0.2	(0.4)	1.6	(3.1)
13					3	(7)	2	(5)	0.2	(0.3)	1.5	(3.0)
14					5	(12)	3	(8)	0.2	(0.6)	1.9	(4.8)
15					8	(15)	5	(10)	0.4	(0.7)	2.9	(5.6)
16					9	(15)	6	(10)	0.4	(0.7)	2.7	(4.6)
17					13	(20)	8	(13)	0.6	(1.0)	3.2	(5.2)
18					104	(135)	68	(89)	5.0	(6.4)	21.1	(27.0)
19					482	(464)	316	(305)	22.9	(22.1)	80.4	(77.7)
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
Avg					70		46		3.3		12.9	
n	0	0	0	0	9		9		9		9	
SD					149		98		7.1		24.6	
Min					3		2		0.2		1.3	
Max					482		316		22.9		80.4	

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for June, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
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22								
23								
24								
25								
26	1980 (1280)	1300 (839)	94.7 (61.3)	56.7 (36.5)	2490 (1760)	1630 (1150)	119.0 (84.1)	77.8 (54.6)
27	1940 (1070)	1270 (704)	93.0 (51.5)	51.3 (28.2)	2120 (1200)	1390 (789)	101.0 (57.7)	60.8 (34.4)
28	2060 (1230)	1350 (805)	99.1 (58.9)	50.5 (29.8)	2050 (1160)	1350 (760)	98.6 (55.7)	54.4 (30.6)
29	2220 (1310)	1460 (861)	107.0 (63.1)	50.6 (29.6)	2210 (1250)	1450 (819)	106.0 (60.1)	54.2 (30.6)
30	2290 (1270)	1500 (831)	110.0 (61.0)	48.6 (26.9)	2330 (1300)	1520 (853)	112.0 (62.6)	53.0 (29.4)
Avg	2100	1380	101.0	51.5	2240	1470	107.0	60.0
n	5	5	5	5	5	5	5	5
SD	137	90	6.7	2.7	155	102	7.4	9.3
Min	1940	1270	93.0	48.6	2050	1350	98.6	53.0
Max	2290	1500	110.0	56.7	2490	1630	119.0	77.8

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for July, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	2080 (1340)	1370 (878)	100.0 (64.5)	41.4 (26.4)	2170 (1280)	1420 (841)	105.0 (61.8)	46.2 (27.2)
2	2120 (1870)	1390 (1220)	102.0 (89.9)	39.7 (34.9)	2380 (1470)	1560 (962)	115.0 (70.8)	47.3 (29.1)
3	2230 (1410)	1470 (925)	108.0 (68.1)	39.3 (24.9)	2450 (1310)	1610 (858)	119.0 (63.2)	45.9 (24.3)
4					2390 (1160)	1570 (764)	116.0 (56.3)	42.1 (20.4)
5					2540 (1180)	1670 (772)	123.0 (56.9)	42.4 (19.4)
6	2930 (5470)	1920 (3590)	142.0 (265.0)	43.9 (82.0)	3090 (2190)	2030 (1440)	150.0 (106.0)	48.8 (34.3)
7	3010 (1940)	1980 (1280)	146.0 (94.3)	43.0 (27.7)	3770 (2530)	2470 (1660)	183.0 (123.0)	56.7 (37.9)
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26								
27								
28								
29								
30								
31								
Avg	2480	1620	120.0	41.5	2690	1760	130.0	47.0
n	5	5	5	5	7	7	7	7
SD	408	267	20.0	1.8	517	339	25.3	4.6
Min	2080	1370	100.0	39.3	2170	1420	105.0	42.1
Max	3010	1980	146.0	43.9	3770	2470	183.0	56.7

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Table E7. Daily means (SD) of TSP emissions at Site CA1B for October, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8	2000 (2350)	1310 (1540)	105.0 (123.0)	207.0 (242.0)				
9	1810 (2290)	1190 (1500)	94.5 (119.0)	159.0 (200.0)				
10	1840 (2210)	1210 (1450)	96.3 (116.0)	140.0 (167.0)				
11	1780 (2250)	1170 (1480)	93.1 (118.0)	118.0 (149.0)				
12	1770 (2140)	1160 (1400)	92.8 (112.0)	103.0 (124.0)				
13	1300 (1760)	852 (1160)	68.0 (92.3)	67.4 (92.0)				
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
Avg	1750	1150	91.6	132.0				
n	6	6	6	6	0	0	0	0
SD	216	142	11.3	43.8				
Min	1300	852	68.0	67.4				
Max	2000	1310	105.0	207.0				

Table E8. H2S concentrations

Table E8. Daily means (SD) of H2S concentrations at Site CA1B for November, 2007.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14	3.3	(6.1)												
15	3.4	(5.4)	4.8	(7.7)	5.7	(1.7)	8.2	(2.5)	10.5	15.0	4.7	(1.4)	6.7	(2.0)
16	0.2	(0.9)	0.3	(1.3)	4.8	(0.4)	6.9	(0.5)	5.7	8.1	3.9	(0.4)	5.6	(0.6)
17	0.9	(2.6)	1.3	(3.7)	6.7	(1.4)	9.7	(2.0)	10.8	15.5	5.9	(1.6)	8.4	(2.2)
18	3.4	(5.1)	4.9	(7.2)	10.5	(1.1)	15.1	(1.6)	13.2	19.0	10.7	(1.4)	15.5	(2.0)
19	0.2	(0.6)	0.3	(0.9)	13.0	(1.8)	18.7	(2.6)	16.8	24.2	15.2	(2.9)	21.8	(4.2)
20	0.5	(0.8)	0.7	(1.1)							17.6	(1.8)	25.3	(2.6)
21	2.0	(3.7)	2.9	(5.3)							18.5	(3.0)	26.6	(4.4)
22	4.4	(2.0)												
23	3.0	(5.3)												
24	6.6	(6.2)	9.4	(8.9)	26.0	(6.9)	37.4	(10.0)	39.1	56.3	26.7	(6.7)	38.4	(9.7)
25	4.6	(3.3)	6.5	(4.7)	40.1	(7.6)	57.7	(10.9)	55.6	79.9	39.5	(6.2)	56.8	(8.9)
26	4.9	(4.6)	6.9	(6.5)	52.8	(8.1)	75.8	(11.7)	64.7	93.0	45.8	(6.7)	65.8	(9.6)
27	2.1	(1.9)	3.0	(2.7)	47.7	(7.1)	68.5	(10.2)	61.3	88.0	40.5	(6.5)	58.2	(9.3)
28	3.7	(3.2)	5.3	(4.5)	41.5	(4.9)	59.6	(7.0)	49.0	70.2	39.0	(4.9)	56.0	(7.0)
29	7.4	(6.7)	10.6	(9.5)	39.4	(5.4)	56.6	(7.7)	47.9	68.8	40.3	(5.9)	57.9	(8.5)
30	1.4	(1.8)	2.0	(2.5)	40.2	(5.3)	57.7	(7.5)	51.2	73.4	42.2	(5.2)	60.5	(7.4)
Avg	3.1		4.2		27.4		39.3		35.5	51.0	25		36	
n	17		14		12		12		12	12	14		14	
SD	2.1		3.2		17.4		25		21.4	30.7	15.2		21.8	
Min	0.2		0.3		4.8		6.9		5.7	8.1	3.9		5.6	
Max	7.4		10.6		52.8		75.8		64.7	93.0	45.8		65.8	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for December, 2007.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	1.6	(3.2)	2.1	(4.7)	41.1	(5.6)	59.2	(8.4)	51.7	74.0	42.9	(6.3)	62.6	(9.1)
2	0.8	(2.7)	1.1	(3.8)	52.6	(7.0)	75.4	(10.1)	70.5	101.0	55.0	(7.8)	78.9	(11.2)
3	1.9	(2.0)	2.7	(2.8)	65.9	(8.8)	94.4	(12.6)	85.4	122.0	67.9	(10.8)	97.3	(15.5)
4	1.1	(1.0)	1.6	(1.4)	85.3	(11.3)	123.0	(16.3)	117.0	168.0	89.9	(11.1)	129.0	(16.0)
5	4.8	(5.8)	6.8	(8.3)	118.0	(18.9)	170.0	(27.2)	158.0	227.0	114.0	(19.6)	163.0	(28.2)
6	3.5	(4.4)	5.0	(6.3)	135.0	(11.1)	194.0	(15.9)	154.0	221.0	130.0	(10.9)	186.0	(15.5)
7	2.3	(0.5)	3.3	(0.8)	135.0	(15.5)	194.0	(22.2)	160.0	230.0	126.0	(14.7)	181.0	(21.1)
8	2.3	(1.6)	3.3	(2.2)	113.0	(23.2)	162.0	(33.3)	155.0	222.0	112.0	(21.0)	161.0	(30.1)
9	1.7	(1.6)	2.5	(2.3)	97.4	(18.9)	140.0	(27.2)	131.0	188.0	96.3	(17.9)	138.0	(25.6)
10	3.7	(2.0)	4.5	(2.9)	91.9	(21.3)	132.0	(30.6)	127.0	182.0	88.0	(20.9)	126.0	(30.0)
11	8.9	(2.8)												
12	3.5	(3.3)	4.9	(4.7)	105.0	(19.7)	151.0	(28.3)	139.0	199.0	108.0	(21.9)	155.0	(31.4)
13	5.8	(5.1)	8.6	(7.2)	99.0	(18.7)	143.0	(27.1)	135.0	194.0	114.0	(18.3)	165.0	(26.3)
14	2.9	(2.6)	4.1	(3.7)	92.7	(16.1)	133.0	(23.1)	118.0	170.0	102.0	(15.1)	146.0	(21.6)
15	4.2	(2.2)	6.0	(3.1)	95.3	(18.7)	137.0	(26.8)	127.0	182.0	95.6	(17.2)	137.0	(24.6)
16	3.1	(3.4)	4.9	(5.1)	88.7	(17.4)	129.0	(25.9)	115.0	164.0	86.4	(16.8)	126.0	(24.7)
17	0.9	(0.5)	1.3	(0.8)	96.6	(9.1)	139.0	(13.0)	114.0	164.0	95.9	(8.9)	138.0	(12.7)
18	1.4	(0.8)	1.9	(1.2)	89.9	(12.1)	129.0	(17.4)	112.0	162.0	89.6	(9.6)	129.0	(13.7)
19	1.3	(1.2)	1.9	(1.7)	79.3	(12.8)	114.0	(18.5)	102.0	147.0	78.9	(12.4)	113.0	(17.8)
20	2.5	(1.7)	3.5	(2.5)	82.2	(10.0)	118.0	(14.4)	103.0	148.0	77.0	(9.2)	111.0	(13.3)
21	2.3	(2.8)	3.3	(3.9)	72.7	(11.1)	104.0	(15.8)	90.9	130.0	68.3	(12.2)	97.8	(17.4)
22	3.6	(2.4)	5.1	(3.5)	72.0	(16.2)	104.0	(23.3)	99.5	143.0	71.0	(15.9)	103.0	(22.9)
23	1.9	(1.4)	2.6	(2.1)										
24	2.9	(1.9)	4.2	(2.7)	85.1	(14.3)	122.0	(20.4)	118.0	168.0	81.5	(13.9)	117.0	(19.9)
25	2.1	(1.5)	3.0	(2.2)	80.8	(14.0)	117.0	(20.3)	108.0	154.0	73.1	(14.6)	106.0	(21.2)
26	1.7	(1.3)	2.5	(1.8)	70.2	(15.1)	101.0	(21.6)	106.0	152.0	71.9	(14.6)	103.0	(21.0)
27	0.5	(0.9)	0.5	(1.2)	61.2	(9.7)	90.8	(13.6)	80.6	115.0	59.1	(10.9)	87.1	(16.5)
28	1.6	(2.8)	2.2	(4.1)	66.7	(5.3)	95.7	(7.6)	79.2	113.0	71.9	(3.6)	103.0	(5.1)
29	1.5	(1.5)	2.1	(2.2)	67.4	(3.5)	96.6	(5.0)	73.7	106.0	72.6	(4.0)	104.0	(5.7)
30	1.9	(0.7)	2.8	(1.0)	51.3	(10.7)	73.6	(15.4)	72.2	104.0	54.1	(12.9)	77.5	(18.6)
31	3.4	(3.5)	4.8	(5.0)	43.6	(11.2)	62.4	(16.1)	66.3	95.0	58.0	(30.7)	65.3	(33.5)
Avg	2.6		3.4		84		121		109.0	157.0	84.5		121	
n	31		30		29		29		29	29	29		29	
SD	1.7		1.8		23.5		33.7		28.9	41.5	21.8		32.2	
Min	0.5		0.5		41.1		59.2		51.7	74.0	42.9		62.6	
Max	8.9		8.6		135.0		194.0		160.0	230.0	130.0		186.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for January, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	4.3	(3.4)	6.1	(4.9)	49.7	(12.5)	71.1	(17.9)	74.9	107.0	52.2	(32.1)		
2	3.5	(2.6)	5.0	(3.7)	28.7	(11.1)	40.8	(15.8)	62.4	88.9	73.1	(67.8)		
3	10.0	(9.5)	14.2	(13.5)	69.2	(22.0)	99.3	(31.7)	160.0	230.0	97.3	(57.3)		
4	-2.3	(2.4)	-3.3	(3.5)	93.0	(11.0)	134.0	(15.8)	113.0	162.0	69.1	(10.7)	97.3	(14.4)
5	-1.7	(1.0)	-2.5	(1.4)	92.0	(13.3)	132.0	(19.1)	114.0	164.0	60.2	(11.9)	86.4	(17.1)
6	0.5	(1.0)	0.7	(1.5)	83.3	(7.1)	120.0	(10.2)	96.9	139.0	55.4	(3.5)	79.5	(5.0)
7	1.4	(1.2)	2.1	(1.7)	53.6	(11.2)	77.0	(16.1)	76.7	110.0	41.9	(5.7)	60.1	(8.1)
8	0.1	(0.6)	0.2	(0.9)	33.4	(3.9)	48.0	(5.6)	47.5	68.2	28.3	(3.4)	40.6	(4.9)
9	1.4	(2.5)	1.9	(3.8)	18.7	(7.0)	27.0	(10.6)	29.0	41.7	17.1	(6.2)	24.6	(8.9)
10	2.7	(3.4)	3.8	(4.9)	19.1	(2.4)	27.4	(3.4)	24.3	35.0	16.3	(1.1)		
11	1.9	(3.2)	2.7	(4.6)	14.5	(3.2)	20.8	(4.6)	20.7	29.8	12.4	(2.1)	16.6	(1.8)
12	1.4	(2.5)	1.9	(3.6)	14.6	(3.4)	21.0	(4.9)	22.0	31.6	11.9	(2.2)	17.1	(3.1)
13	3.2	(5.7)	4.5	(8.1)	15.8	(4.4)	22.7	(6.3)	24.4	35.1	12.9	(3.6)	18.6	(5.2)
14	5.7	(9.1)	8.2	(13.0)	8.0	(4.0)	11.4	(5.7)	15.7	22.6	7.6	(3.5)	11.0	(5.0)
15	2.3	(1.4)	3.3	(2.0)	1.8	(1.0)	2.6	(1.5)	4.5	6.6	2.3	(0.9)	3.3	(1.3)
16	0.6	(0.8)	0.9	(1.1)	5.3	(5.2)	7.7	(7.5)	14.5	20.9	3.1	(3.2)	4.4	(4.6)
17	2.3	(1.8)	3.2	(2.6)	17.3	(12.9)	24.9	(18.6)	38.0	54.7	10.4	(8.5)	15.0	(12.1)
18	6.6	(6.5)	9.4	(9.3)	20.3	(14.3)	29.1	(20.6)	43.4	62.6	16.0	(7.9)	23.0	(11.3)
19	3.5	(2.1)	4.9	(3.0)	26.7	(16.3)	38.4	(23.5)	56.3	81.0	19.9	(7.5)	28.6	(10.8)
20	1.4	(1.6)	1.9	(2.3)	25.9	(9.9)	37.3	(14.2)	48.5	69.7	20.9	(4.7)	30.0	(6.7)
21	5.2	(4.2)	7.4	(6.0)	30.7	(11.9)	44.1	(17.1)	62.8	90.3	25.1	(5.8)	36.2	(8.4)
22	2.4	(1.8)	3.4	(2.5)	41.8	(9.8)	60.1	(14.1)	64.9	93.3	31.4	(5.7)	45.2	(8.2)
23	2.2	(0.6)	3.1	(0.9)	41.6	(8.4)	59.9	(12.0)	62.5	90.0	36.5	(4.3)	52.5	(6.2)
24	-0.3	(0.3)	-0.4	(0.4)	33.8	(12.2)	48.6	(17.6)	64.6	93.0	36.3	(8.4)	52.1	(12.1)
25	8.4	(5.3)	11.9	(7.6)	50.1	(9.0)	72.0	(13.1)	72.4	104.0	51.5	(8.4)	74.1	(12.1)
26	19.9	(4.7)	28.4	(6.8)	73.9	(13.4)	106.0	(19.3)	106.0	152.0	71.3	(10.6)	103.0	(15.2)
27	24.1	(3.8)	34.2	(5.3)	74.6	(12.7)	107.0	(18.2)	104.0	150.0	73.5	(9.2)	106.0	(13.2)
28	12.3	(7.0)			70.8	(12.5)	102.0	(18.0)	90.8	130.0	73.5	(11.6)	106.0	(16.7)
29	1.5	(0.9)	2.2	(1.3)	57.9	(14.2)	83.2	(20.4)	84.4	121.0	62.4	(13.3)	89.6	(19.0)
30	2.3	(1.3)	3.2	(1.8)	61.9	(13.8)	88.9	(19.8)	84.3	121.0	62.6	(11.7)	89.9	(16.7)
31	1.6	(0.8)	2.3	(1.1)	72.0	(11.4)	103.0	(16.3)	95.5	137.0	71.2	(8.6)	102.0	(12.4)
Avg	4.1		5.5		41.9		60.3		63.9	91.7	39.5		52.3	
n	31		30		31		31		31	31	31		27	
SD	5.6		7.9		26.4		38		35.7	51.2	26.2		34.7	
Min	-2.3		-3.3		1.8		2.6		4.5	6.6	2.3		3.3	
Max	24.1		34.2		93.0		134.0		160.0	230.0	97.3		106.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for February, 2008.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1					77.8	(17.7)	112.0	(25.4)	106.0	153.0	72.5	(14.5)	104.0	(20.8)
2														
3														
4														
5	5.2	(0.9)	7.3	(1.3)	82.0	(24.4)	118.0	(35.0)	126.0	180.0	72.7	(19.0)	104.0	(27.3)
6	2.6	(1.0)	3.6	(1.5)	85.3	(21.5)	122.0	(30.9)	120.0	172.0	81.4	(19.5)	117.0	(28.0)
7	1.3	(0.7)	1.9	(1.0)	88.4	(22.7)	127.0	(32.6)	125.0	179.0	84.6	(21.9)	121.0	(31.5)
8	4.6	(0.7)	6.6	(1.0)	86.1	(21.5)	123.0	(30.8)	120.0	172.0	80.7	(20.7)	116.0	(29.6)
9	5.3	(3.8)	7.6	(5.5)	99.3	(31.9)	142.0	(45.8)	163.0	233.0	89.4	(27.4)	128.0	(39.3)
10	10.2	(6.7)	14.5	(9.5)	107.0	(33.2)	154.0	(47.6)	158.0	227.0	103.0	(28.8)	148.0	(41.3)
11	6.0	(3.1)	8.6	(4.4)	88.1	(28.7)	127.0	(41.3)	141.0	202.0	84.9	(30.1)	122.0	(43.3)
12	2.1	(1.8)	3.0	(2.6)	74.4	(28.6)	107.0	(41.1)	118.0	170.0	67.6	(26.3)	97.0	(37.7)
13	3.5	(3.5)	5.0	(5.0)	76.2	(20.2)	109.0	(28.9)	109.0	157.0	71.2	(16.3)	102.0	(23.3)
14	11.1	(7.5)	15.6	(10.9)	61.3	(12.4)	88.6	(17.2)	79.1	113.0	57.5	(10.8)	83.0	(15.1)
15	9.7	(10.5)	13.8	(14.9)	67.6	(21.8)	96.6	(31.2)	104.0	149.0	63.5	(18.3)	90.9	(26.2)
16	1.2	(0.8)	1.7	(1.1)	68.9	(22.9)	98.6	(32.8)	114.0	163.0	67.5	(23.2)	96.6	(33.2)
17	0.9	(1.2)	1.2	(1.7)	72.4	(24.9)	104.0	(35.6)	112.0	161.0	75.3	(26.0)	108.0	(37.2)
18	0.6	(0.4)	0.9	(0.5)	68.9	(18.4)	98.7	(26.4)	95.3	136.0	65.2	(20.3)	93.5	(29.1)
19	2.2	(1.7)	3.2	(2.5)	62.3	(14.6)	89.3	(20.9)	88.9	127.0	61.0	(12.4)	87.4	(17.8)
20	3.1	(2.0)	4.5	(2.8)	51.3	(12.1)	73.5	(17.4)	68.3	97.8	60.5	(12.8)	86.7	(18.4)
21	2.3	(1.4)	3.3	(2.0)	22.6	(21.2)	32.7	(30.8)	67.6	96.7	55.2	(17.7)	79.3	(25.7)
22	1.2	(1.4)	1.9	(2.0)	44.0	(36.4)	66.0	(54.9)	210.0	301.0	60.8	(69.2)	92.4	(105.0)
23	0.0	(0.3)	0.0	(0.4)	24.3	(9.4)	34.6	(13.5)	35.8	51.1	22.6	(12.1)	32.2	(17.3)
24	1.2	(1.1)	1.7	(1.6)	27.5	(2.8)	39.3	(4.0)	33.3	47.5	18.7	(3.9)	26.8	(5.5)
25	4.4	(3.3)	6.1	(4.6)	31.2	(11.6)	44.5	(16.7)	65.4	93.6	26.9	(8.9)	38.4	(12.8)
26	7.1	(0.7)	10.1	(1.1)	228.0	(163.0)	321.0	(241.0)	415.0	595.0	156.0	(112.0)	219.0	(164.0)
27	3.4	(1.8)	4.9	(2.5)	300.0	(70.5)	432.0	(102.0)	374.0	538.0	212.0	(52.9)	305.0	(76.2)
28	4.6	(1.8)	6.5	(2.6)	224.0	(71.6)	322.0	(103.0)	350.0	504.0	155.0	(55.9)	223.0	(80.2)
29	1.3	(1.6)	1.9	(2.2)	139.0	(55.0)	203.0	(78.1)	229.0	330.0	97.8	(40.2)	142.0	(57.4)
Avg	3.8		5.4		90.7		130		143.0	206.0	79.4		114	
n	25		25		26		26		26	26	26		26	
SD	3		4.3		64.4		92.2		96.2	138	40.7		58.1	
Min	0.0		0.0		22.6		32.7		33.3	47.5	18.7		26.8	
Max	11.1		15.6		300.0		432.0		415.0	595.0	212.0		305.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for March, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	1.9	(1.2)	2.7	(1.7)	105.0	(21.0)	151.0	(30.2)	144.0	208.0	75.1	(13.6)	108.0	(19.6)
2	4.3	(3.4)	6.2	(4.9)	63.1	(8.0)	90.6	(11.4)	87.0	125.0	46.6	(5.1)	66.9	(7.3)
3	4.3	(2.3)	6.1	(3.3)	59.5	(20.6)	85.3	(29.5)	103.0	147.0	44.9	(15.5)	64.4	(22.3)
4	5.0	(2.6)	7.1	(3.7)	56.0	(19.6)	80.4	(28.1)	87.0	125.0	40.7	(15.3)	58.4	(22.0)
5	0.0	(0.5)	0.0	(0.7)	49.3	(11.2)	70.9	(16.1)	73.7	106.0	36.9	(10.2)	53.0	(14.7)
6	1.3	(0.7)	1.9	(1.0)	40.4	(9.2)	58.2	(13.3)	57.0	82.0	31.6	(8.2)	45.5	(11.7)
7	0.5	(0.9)	0.6	(1.3)	39.1	(11.3)	56.2	(16.3)	59.7	85.9	28.6	(8.7)	41.2	(12.5)
8	0.2	(0.7)	0.4	(1.0)	41.1	(12.3)	59.2	(17.7)	60.0	86.2	27.0	(9.0)	38.9	(12.9)
9	1.8	(2.0)	2.6	(2.8)	50.9	(14.9)	72.7	(21.7)	76.0	109.0	30.2	(10.5)	43.2	(15.4)
10	2.5	(2.1)	3.6	(3.0)	56.6	(20.4)	81.4	(29.4)	86.2	124.0	29.9	(12.4)	42.9	(17.9)
11	0.9	(0.6)	1.3	(0.9)	81.2	(13.1)	117.0	(18.9)	103.0	148.0	33.9	(5.3)	48.8	(7.6)
12	1.5	(0.9)	2.2	(1.3)	98.2	(19.5)	141.0	(28.1)	139.0	201.0	36.6	(7.1)	52.7	(10.2)
13	2.1	(1.4)	3.0	(2.0)	105.0	(28.6)	152.0	(41.2)	150.0	217.0	47.2	(9.8)	67.8	(14.1)
14	0.2	(0.3)	0.3	(0.4)	101.0	(19.3)	145.0	(27.8)	132.0	190.0	52.0	(10.1)	74.7	(14.6)
15	1.3	(1.2)	1.8	(1.7)	105.0	(14.1)	151.0	(20.3)	127.0	183.0	49.8	(6.0)	71.5	(8.7)
16	0.7	(0.7)	1.0	(1.1)	87.0	(18.5)	125.0	(26.6)	121.0	174.0	47.1	(7.9)	67.6	(11.4)
17	0.9	(0.9)	1.2	(1.2)	82.9	(20.9)	119.0	(30.1)	105.0	151.0	44.5	(12.4)	63.8	(17.8)
18	0.8	(0.6)	1.2	(0.9)	83.5	(33.7)	120.0	(48.5)	153.0	220.0	43.3	(16.2)	62.1	(23.2)
19	1.0	(0.3)	1.5	(0.5)	123.0	(42.9)	177.0	(61.8)	177.0	255.0	67.9	(20.9)	97.6	(30.1)
20	0.8	(0.4)	1.1	(0.6)	148.0	(35.3)	213.0	(50.9)	208.0	298.0	97.3	(22.7)	140.0	(32.7)
21	1.5	(1.1)	2.1	(1.5)	141.0	(35.2)	202.0	(50.7)	196.0	281.0	107.0	(25.1)	154.0	(36.0)
22	3.0	(1.6)	4.3	(2.3)	120.0	(45.9)	172.0	(65.9)	187.0	268.0	107.0	(33.7)	154.0	(48.4)
23	2.7	(1.6)	3.8	(2.2)	115.0	(55.5)	165.0	(79.7)	191.0	273.0	104.0	(46.8)	150.0	(67.2)
24	1.2	(0.9)												
25	0.8	(0.2)	1.2	(0.3)	132.0	(52.7)	197.0	(71.8)	214.0	308.0	112.0	(42.5)	167.0	(58.0)
26	1.2	(0.2)	1.7	(0.2)	136.0	(41.5)	196.0	(59.6)	194.0	278.0	116.0	(33.1)	167.0	(47.6)
27	1.1	(0.5)												
28	0.8	(0.6)	1.2	(0.8)	108.0	(41.7)	155.0	(59.9)	168.0	242.0	111.0	(39.9)	160.0	(57.3)
29	1.6	(0.6)	2.3	(0.8)	117.0	(30.9)	168.0	(44.5)	177.0	254.0	121.0	(29.4)	174.0	(42.2)
30	2.0	(0.2)	2.9	(0.2)	99.8	(33.3)	143.0	(47.8)	158.0	227.0	108.0	(32.2)	154.0	(46.2)
31	3.7	(1.5)	5.2	(2.1)	92.1	(33.6)	132.0	(48.2)	155.0	222.0	98.0	(38.3)	140.0	(54.8)
Avg	1.7		2.4		90.9		131		134.0	193.0	65.4		94.1	
n	31		29		29		29		29	29	29		29	
SD	1.2		1.8		31.7		45.9		47.6	68.3	32.9		47.5	
Min	0.0		0.0		39.1		56.2		57.0	82.0	27.0		38.9	
Max	5.0		7.1		148.0		213.0		214.0	308.0	121.0		174.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for April, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	5.3	(0.5)	7.6	(0.7)	85.9	(37.5)	123.0	(53.7)	150.0	214.0	90.0	(40.8)	129.0	(58.5)
2	2.2	(0.7)	3.2	(1.1)	81.3	(31.4)	116.0	(45.0)	138.0	198.0	80.4	(33.8)	115.0	(48.5)
3	1.7	(0.2)	2.4	(0.3)	80.1	(31.5)	115.0	(45.2)	123.0	177.0	73.9	(27.2)	106.0	(39.0)
4	1.2	(0.2)	1.7	(0.2)	73.9	(31.5)	106.0	(45.2)	128.0	183.0	81.8	(28.0)	117.0	(40.1)
5					56.4	(23.9)	80.6	(34.3)	95.2	136.0	70.9	(23.2)	102.0	(33.2)
6														
7														
8														
9														
10														
11														
12	2.2	(1.5)	3.1	(2.1)	41.8	(19.8)	59.9	(28.3)	82.2	118.0	35.3	(18.0)	50.6	(25.7)
13	0.7	(0.4)	1.0	(0.6)	31.3	(16.7)	44.9	(23.8)	67.7	96.9	25.2	(14.7)	36.1	(21.0)
14	1.4	(0.3)	1.9	(0.4)	36.0	(10.5)	51.5	(15.1)	52.7	75.2	25.8	(7.8)	36.8	(11.2)
15	1.2	(0.2)	1.7	(0.3)	69.4	(49.1)	99.1	(70.2)	152.0	217.0	35.9	(25.5)	51.3	(36.4)
16	0.6	(0.2)	0.9	(0.2)	35.0	(60.1)	55.0	(88.7)	167.0	238.0	18.1	(28.1)		
17	0.7	(0.3)	1.0	(0.5)	3.7	(2.7)	5.3	(3.9)	10.0	14.3	7.4	(7.1)		
18	0.3	(0.5)	0.4	(0.7)	1.1	(1.5)	1.6	(2.1)	10.8	15.3	0.9	(0.5)		
19	0.1	(0.1)	0.1	(0.1)	0.5	(0.5)	0.7	(0.7)	1.9	2.8	0.6	(0.3)		
20	-0.3	(0.4)	-0.4	(0.6)	1.1	(1.3)	1.6	(1.8)	5.6	8.0	1.8	(1.0)	2.6	(1.5)
21	-0.2	(0.2)	-0.2	(0.3)	0.7	(0.5)	1.0	(0.7)	2.4	3.4	1.0	(0.7)	1.4	(1.0)
22	0.6	(0.6)	0.8	(0.8)	1.9	(0.9)	2.7	(1.3)	5.1	7.3	2.0	(1.0)	2.9	(1.4)
23	1.0	(1.0)	1.5	(1.4)	2.8	(1.6)	4.0	(2.2)	7.3	10.4	3.0	(1.6)	4.3	(2.4)
24	0.2	(0.1)	0.3	(0.2)	2.8	(0.7)	4.0	(1.0)	4.6	6.6	3.2	(1.1)	4.5	(1.5)
25	0.2	(0.2)	0.3	(0.2)	4.5	(1.4)	6.4	(2.0)	7.4	10.6	4.9	(1.7)	7.0	(2.4)
26	0.3	(0.5)	0.5	(0.7)	5.1	(2.3)	7.3	(3.3)	8.5	12.2	4.1	(2.1)	5.8	(3.0)
27	0.2	(0.5)	0.3	(0.7)	5.0	(3.2)	7.2	(4.6)	11.4	16.4	3.6	(2.6)	5.2	(3.7)
28	-0.3	(0.4)	-0.4	(0.6)	4.5	(2.5)	6.5	(3.6)	8.5	12.2	3.1	(1.7)	4.4	(2.4)
29	-0.7	(0.1)	-0.9	(0.2)	5.7	(1.4)	8.1	(2.0)	7.8	11.2	3.8	(1.2)	5.4	(1.7)
30	-0.2	(0.3)	-0.3	(0.4)	7.1	(1.2)	10.2	(1.7)	11.6	16.7	4.6	(1.0)	6.5	(1.4)
Avg	0.8		1.2		26.6		38.2		52.5	75.1	24.2		39.7	
n	23		23		24		24		24	24	24		20	
SD	1.2		1.7		30.5		43.8		58.5	83.7	30.3		45.7	
Min	-0.7		-0.9		0.5		0.7		1.9	2.8	0.6		1.4	
Max	5.3		7.6		85.9		123.0		167.0	238.0	90.0		129.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for May, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	0.0	(0.2)	0.0	(0.2)	7.0	(2.3)	10.1	(3.3)	12.7	18.3	4.8	(1.5)	6.9	(2.2)
2	0.1	(0.3)	0.2	(0.5)	9.9	(6.0)	14.2	(8.6)	29.8	42.7	6.8	(4.2)	9.7	(6.1)
3	-0.1	(0.3)	-0.2	(0.4)	12.1	(5.1)	17.4	(7.3)	18.6	26.8	6.3	(2.7)	9.1	(3.9)
4	0.3	(0.4)	0.4	(0.6)	12.5	(5.5)	18.0	(7.9)	20.7	29.8	6.1	(2.7)	8.8	(3.8)
5	-0.2	(0.3)	-0.3	(0.4)	11.2	(5.7)	16.1	(8.1)	18.2	26.2	7.1	(3.6)	10.2	(5.1)
6	-0.2	(0.4)	-0.3	(0.6)	11.5	(5.6)	16.5	(8.1)	18.1	26.0	9.2	(4.3)	13.2	(6.2)
7	-0.3	(0.1)	-0.4	(0.2)	15.5	(2.7)	22.3	(3.8)	19.6	28.2	12.5	(1.8)	17.9	(2.7)
8	-0.2	(0.4)	-0.2	(0.6)	12.3	(6.3)	17.6	(9.0)	22.8	32.8	10.0	(5.1)	14.3	(7.4)
9	-0.5	(0.3)	-0.7	(0.5)	14.6	(5.8)	21.0	(8.3)	21.2	30.4	11.4	(4.0)	16.3	(5.8)
10	-0.4	(0.1)	-0.6	(0.1)	14.5	(7.8)	20.9	(11.2)	25.1	36.1	11.1	(5.7)	15.9	(8.2)
11	0.0	(0.3)	0.1	(0.4)	18.3	(8.5)	26.2	(12.2)	28.4	40.8	14.1	(6.1)	20.3	(8.7)
12	0.2	(0.6)	0.3	(0.9)	23.8	(7.9)	34.1	(11.3)	35.9	51.5	18.9	(4.9)	27.1	(7.0)
13	2.3	(1.6)	3.3	(2.2)	20.7	(13.2)	29.6	(19.0)	40.3	58.0	15.7	(9.8)	22.4	(14.1)
14	3.3	(2.7)	4.7	(3.9)	19.6	(12.9)	28.1	(18.5)	40.9	58.7	17.0	(12.1)	24.4	(17.3)
15	7.5	(5.8)	10.9	(8.2)	23.3	(16.5)	33.6	(23.7)	57.8	83.1	20.1	(13.8)	29.1	(19.8)
16														
17														
18														
19														
20	1.1	(0.1)	1.6	(0.2)	43.3	(22.1)	62.1	(31.7)	89.9	129.0	29.4	(14.3)	42.2	(20.5)
21	0.8	(0.2)	1.1	(0.3)	44.4	(19.7)	63.6	(28.3)	81.1	116.0	33.4	(12.3)	47.8	(17.7)
22	0.5	(0.2)	0.7	(0.3)	41.2	(18.2)	59.0	(26.0)	73.1	105.0	27.4	(11.1)	39.3	(15.9)
23	0.8	(0.3)	1.1	(0.4)	46.7	(19.5)	67.0	(27.9)	85.4	122.0	29.5	(11.5)	42.3	(16.5)
24	1.5	(0.6)	2.1	(0.8)	71.6	(11.2)	103.0	(16.0)	96.8	139.0	55.7	(11.6)	79.9	(16.7)
25	2.7	(0.8)	3.8	(1.2)	73.5	(23.0)	105.0	(33.0)	113.0	162.0	69.5	(21.0)	99.7	(30.2)
26	1.2	(0.4)	1.8	(0.6)	60.9	(27.3)	87.3	(39.2)	120.0	172.0	60.9	(26.1)	87.4	(37.5)
27	1.0	(0.4)	1.4	(0.6)	50.9	(18.8)	72.9	(27.0)	78.2	112.0	59.5	(21.6)	85.3	(31.0)
28	2.3	(0.1)	3.3	(0.1)	44.4	(20.3)	63.7	(29.1)	76.2	109.0	54.7	(24.8)	78.5	(35.6)
29	1.7	(0.3)	2.4	(0.5)	38.1	(17.5)	54.5	(25.1)	65.1	93.3	44.6	(22.1)	64.0	(31.7)
30	1.1	(0.3)	1.5	(0.5)	31.7	(14.6)	45.5	(21.0)	54.8	78.5	36.0	(17.5)	51.7	(25.1)
31	1.1	(0.1)	1.5	(0.1)	32.0	(12.9)	45.8	(18.5)	51.9	74.4	33.9	(14.0)	48.6	(20.1)
Avg	1		1.5		29.8		42.8		51.7	74.1	26.1		37.5	
n	27		27		27		27		27	27	27		27	
SD	1.6		2.3		19		27.2		31.5	45.1	19.3		27.7	
Min	-0.5		-0.7		7.0		10.1		12.7	18.3	4.8		6.9	
Max	7.5		10.9		73.5		105.0		120.0	172.0	69.5		99.7	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for June, 2008.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	0.5	(0.2)	0.8	(0.2)	31.3	(14.8)	44.8	(21.2)	56.4	80.8	31.0	(14.6)	44.4	(21.0)
2	1.0	(0.2)	1.4	(0.3)	29.9	(13.8)	42.8	(19.8)	53.3	76.3	30.1	(14.0)	43.1	(20.0)
3	0.7	(0.2)	1.0	(0.3)	28.1	(11.5)	40.3	(16.4)	51.1	73.2	29.2	(11.8)	41.9	(16.9)
4	0.4	(0.5)	0.6	(0.7)	27.6	(12.8)	39.5	(18.3)	49.8	71.3	27.5	(12.9)	39.4	(18.5)
5	0.6	(0.3)	0.9	(0.5)	23.4	(13.1)	33.5	(18.8)	46.0	65.8	22.1	(11.8)	31.7	(16.9)
6	1.1	(0.2)	1.6	(0.4)	20.0	(10.2)	28.6	(14.6)	38.1	54.5	19.2	(10.7)	27.5	(15.3)
7	0.8	(0.5)	1.1	(0.8)	30.5	(35.9)	43.8	(51.5)	106.0	151.0	32.8	(46.4)	47.1	(66.5)
8	3.8	(1.3)	5.4	(1.9)	129.0	(34.5)	185.0	(49.4)	196.0	280.0	160.0	(53.5)	230.0	(76.5)
9	4.0	(0.8)	5.7	(1.1)	117.0	(49.2)	168.0	(70.4)	199.0	285.0	119.0	(63.3)	171.0	(90.6)
10	0.5	(0.7)	0.7	(1.0)	26.0	(39.4)	37.3	(56.5)	135.0	193.0	22.1	(37.0)	31.7	(53.1)
11	0.0	(0.4)	0.1	(0.6)	4.6	(3.4)	6.6	(4.9)	13.4	19.2	3.2	(1.6)	4.6	(2.2)
12	0.9	(0.2)	1.3	(0.3)	24.0	(26.0)	34.4	(37.2)	101.0	145.0	18.1	(12.3)	25.8	(17.6)
13	0.9	(0.1)	1.2	(0.2)	22.5	(15.0)	32.2	(21.5)	43.9	62.9	22.3	(15.6)	31.9	(22.3)
14	0.6	(0.1)	0.8	(0.2)	26.2	(15.6)	37.6	(22.3)	45.1	64.6	27.2	(16.1)	39.0	(23.1)
15	0.6	(0.3)	0.8	(0.4)	23.1	(15.1)	33.1	(21.6)	43.9	62.9	24.4	(15.6)	35.0	(22.4)
16	0.7	(0.2)	1.0	(0.3)	17.8	(10.1)	25.5	(14.4)	30.6	43.8	18.2	(10.4)	26.1	(14.8)
17	0.5	(0.5)	0.7	(0.7)	15.2	(8.6)	21.8	(12.3)	25.7	36.9	15.5	(9.1)	22.3	(13.1)
18	0.0	(0.2)	0.0	(0.3)	11.8	(7.6)	17.0	(10.8)	22.3	31.9	11.7	(7.7)	16.7	(11.0)
19	0.7	(0.6)	1.1	(0.9)	10.1	(6.5)	14.5	(9.3)	18.2	26.0	9.5	(6.2)	13.7	(8.8)
20	0.9	(0.4)	1.3	(0.6)	8.0	(6.4)	11.5	(9.2)	17.8	25.4	7.6	(6.2)	10.8	(8.9)
21	0.3	(0.3)	0.5	(0.4)	7.5	(6.1)	10.8	(8.8)	19.8	28.4	6.9	(5.6)	9.9	(8.1)
22	0.1	(0.2)	0.2	(0.2)	6.2	(4.3)	8.8	(6.2)	12.9	18.5	5.8	(3.9)	8.3	(5.6)
23	0.2	(0.3)	0.2	(0.4)	6.9	(3.6)	9.9	(5.1)	12.2	17.6	6.5	(3.4)	9.4	(4.9)
24	0.9	(0.3)	1.2	(0.4)	7.1	(3.8)	10.2	(5.5)	13.2	19.0	6.0	(3.5)	8.6	(5.0)
25	0.6	(0.3)	0.8	(0.4)	6.0	(3.2)	8.6	(4.6)	10.4	15.0	5.0	(2.5)	7.1	(3.6)
26	0.5	(0.4)	0.7	(0.6)	6.4	(2.9)	9.2	(4.2)	10.6	15.3	5.1	(2.7)	7.4	(3.8)
27	1.2	(0.7)	1.8	(1.0)	6.4	(4.4)	9.2	(6.4)	15.6	22.4	5.3	(3.4)	7.6	(4.8)
28	0.3	(0.2)	0.4	(0.3)	5.9	(3.3)	8.4	(4.7)	10.1	14.5	4.7	(2.5)	6.7	(3.6)
29	0.4	(0.2)	0.5	(0.3)	5.2	(3.1)	7.5	(4.4)	9.2	13.3	4.0	(2.2)	5.7	(3.1)
30	0.0	(0.3)	-0.1	(0.5)	5.2	(3.0)	7.5	(4.3)	9.4	13.5	3.9	(2.2)	5.5	(3.1)
Avg	0.8		1.1		23		32.9		47.2	67.6	23.5		33.6	
n	30		30		30		30		30	30	30		30	
SD	0.9		1.3		28.3		40.6		50.2	71.9	32.9		47.2	
Min	0.0		-0.1		4.6		6.6		9.2	13.3	3.2		4.6	
Max	4.0		5.7		129.0		185.0		199.0	285.0	160.0		230.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for July, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	0.0	(0.1)	0.0	(0.1)	6.1	(3.2)	8.7	(4.6)	10.6	15.2	4.3	(2.3)	6.1	(3.3)
2	0.2	(0.2)	0.2	(0.2)	6.3	(3.8)	9.1	(5.4)	11.5	16.5	4.5	(2.6)	6.4	(3.7)
3	0.1	(0.2)	0.1	(0.3)	6.4	(4.2)	9.2	(6.1)	12.7	18.2	4.4	(2.7)	6.3	(3.9)
4	0.4	(0.4)	0.6	(0.6)	9.5	(4.6)	13.6	(6.6)	16.1	23.1	6.1	(2.8)	8.8	(4.1)
5	0.6	(0.3)	0.8	(0.4)	10.0	(6.2)	14.4	(8.9)	20.1	28.8	6.0	(3.5)	8.6	(5.0)
6	0.7	(0.6)	1.0	(0.8)	11.8	(6.9)	17.0	(9.9)	26.1	37.6	7.6	(3.8)	10.9	(5.5)
7	1.6	(0.5)	2.3	(0.7)	14.1	(7.8)	20.2	(11.3)	35.2	50.6	10.3	(5.0)	14.9	(7.2)
8	2.5	(0.6)	3.6	(0.8)	13.8	(5.6)	19.8	(8.1)	27.7	39.9	13.0	(6.4)	18.7	(9.1)
9	1.1	(0.5)	1.6	(0.8)	11.2	(3.5)	16.1	(5.0)	19.4	27.9	10.9	(4.5)	15.7	(6.4)
10	1.6	(1.3)	2.3	(1.8)	13.0	(5.1)	18.7	(7.3)	27.1	38.9	13.4	(5.9)	19.2	(8.4)
11	0.8	(0.1)	1.2	(0.2)	18.9	(6.3)	27.2	(9.0)	30.6	43.9	16.2	(5.5)	23.3	(7.9)
12	0.7	(0.2)	1.1	(0.2)	22.9	(7.6)	32.9	(10.8)	38.0	54.6	20.8	(6.6)	29.9	(9.4)
13	0.8	(0.2)	1.1	(0.3)	24.6	(8.9)	35.4	(12.8)	42.3	60.7	23.7	(9.3)	34.1	(13.3)
14	1.0	(0.1)	1.5	(0.2)	23.0	(7.6)	33.1	(10.9)	41.8	60.0	24.6	(8.8)	35.4	(12.6)
15	0.6	(0.3)	0.8	(0.4)	28.2	(10.2)	40.4	(14.7)	45.4	65.1	33.4	(12.4)	48.1	(17.9)
16	1.4	(0.1)	1.9	(0.2)	28.0	(10.7)	40.2	(15.4)	49.0	70.4	32.4	(13.9)	46.5	(20.0)
17	1.0	(0.3)	1.5	(0.4)	23.3	(10.3)	33.4	(14.8)	45.5	65.2	26.9	(12.1)	38.7	(17.3)
18	2.1	(0.9)	3.0	(1.3)	25.8	(11.9)	37.0	(17.0)	49.8	71.4	27.2	(13.5)	39.0	(19.3)
19	2.8	(0.3)	4.1	(0.4)	29.4	(7.8)	42.2	(11.1)	48.0	68.8	26.9	(8.7)	38.6	(12.4)
20	1.9	(0.8)	2.7	(1.1)	34.8	(12.0)	50.0	(17.2)	64.3	92.3	33.3	(12.6)	47.8	(18.0)
21	1.2	(0.2)	1.7	(0.2)	35.5	(14.6)	50.9	(21.0)	59.7	85.7	32.6	(15.9)	46.9	(22.8)
22	1.3	(0.3)	1.8	(0.4)	28.6	(12.3)	41.0	(17.7)	50.0	71.6	26.4	(9.9)	37.9	(14.2)
23	1.5	(0.7)	2.1	(1.0)	20.1	(5.1)	28.9	(7.3)	38.3	54.9	20.2	(5.5)	29.0	(7.8)
24	1.5	(1.0)	2.1	(1.5)	20.3	(2.9)	29.1	(4.1)	25.7	36.8	19.6	(3.4)	28.1	(4.8)
25	0.9	(0.3)	1.2	(0.4)	21.3	(5.7)	30.7	(8.1)	31.4	45.1	19.4	(5.4)	28.0	(7.7)
26	1.6	(0.6)	2.3	(0.9)	21.5	(3.1)	30.8	(4.4)	28.7	41.1	18.9	(2.8)	27.1	(3.9)
27	1.3	(0.6)	1.9	(0.8)	22.4	(4.1)	32.2	(5.9)	33.1	47.5	20.0	(3.4)	28.7	(4.9)
28	0.9	(0.1)	1.3	(0.2)	21.6	(5.5)	31.0	(7.9)	37.6	53.8	22.1	(7.2)	31.8	(10.3)
29	1.4	(0.6)	1.9	(0.8)	19.6	(5.8)	28.1	(8.3)	30.0	42.9	19.4	(6.2)	27.8	(8.8)
30	1.9	(0.3)	2.7	(0.4)	21.2	(6.5)	30.4	(9.2)	35.1	50.3	19.8	(7.7)	28.4	(11.0)
31	2.0	(0.1)	2.8	(0.2)	18.1	(7.2)	25.9	(10.2)	34.6	49.6	16.2	(6.3)	23.3	(9.0)
Avg	1.2		1.7		19.7		28.3		34.4	49.3	18.7		26.9	
n	31		31		31		31		31	31	31		31	
SD	0.7		0.9		7.8		11.2		13.3	19	8.8		12.7	
Min	0.0		0.0		6.1		8.7		10.6	15.2	4.3		6.1	
Max	2.8		4.1		35.5		50.9		64.3	92.3	33.4		48.1	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for August, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	1.6	(0.5)	2.3	(0.7)	71.8	(86.1)	103.0	(124.0)	287.0	414.0	82.9	(98.7)	119.0	(142.0)
2	0.8	(0.5)	1.2	(0.7)	71.9	(106.0)	104.0	(152.0)	299.0	432.0	79.5	(117.0)		
3	0.2	(0.1)	0.3	(0.2)	11.6	(2.8)	16.5	(4.1)	18.7	26.7	13.3	(2.6)		
4	0.2	(0.3)	0.2	(0.5)	4.9	(2.9)	7.0	(4.1)	10.3	14.8	4.1	(3.1)		
5	-0.2	(0.3)	-0.3	(0.4)	2.3	(0.7)	3.3	(1.1)	4.2	6.0	1.6	(0.4)		
6	0.4	(0.2)	0.6	(0.2)	8.4	(12.9)	12.0	(18.4)	37.1	53.2	10.3	(13.7)		
7	0.1	(0.2)	0.2	(0.3)	18.5	(12.4)	26.4	(17.7)	36.1	51.7	18.4	(12.2)		
8	-0.5	(0.2)	-0.7	(0.3)	4.9	(4.6)	7.1	(6.5)	15.4	22.1	5.3	(5.3)		
9	-0.5	(0.3)	-0.7	(0.5)	2.5	(0.8)	3.5	(1.1)	5.2	7.4	2.3	(0.5)		
10	0.1	(0.1)	0.2	(0.2)	7.1	(5.8)	10.2	(8.4)	17.8	25.5	7.0	(6.1)		
11	0.1	(0.4)	0.2	(0.5)	9.9	(7.8)	15.2	(10.9)	20.3	29.1	9.8	(7.7)		
12	0.3	(0.5)	0.5	(0.7)	10.1	(7.8)	14.5	(11.3)	20.3	29.1	9.6	(7.2)	13.8	(10.3)
13	-0.2	(0.3)	-0.3	(0.4)	8.1	(6.6)	11.6	(9.4)	18.9	27.1	8.1	(6.5)	11.7	(9.3)
14	-0.8	(0.4)	-1.1	(0.6)	8.2	(5.9)	12.1	(8.5)	17.6	25.3	7.4	(5.4)	11.0	(7.8)
15	-0.4	(0.1)	-0.5	(0.2)	6.6	(5.3)	9.5	(7.6)	14.6	21.0	6.0	(4.8)	8.6	(6.9)
16	-0.4	(0.2)	-0.5	(0.3)	5.5	(4.0)	7.9	(5.7)	10.9	15.6	4.9	(3.6)	7.0	(5.1)
17	-0.6	(0.2)	-0.8	(0.3)	5.8	(3.4)	8.4	(4.9)	10.0	14.4	4.6	(2.7)	6.6	(3.9)
18	-0.5	(0.3)	-0.7	(0.4)	6.6	(2.8)	9.8	(4.0)	10.1	14.5				
19	-0.6	(0.1)	-0.8	(0.2)	6.6	(2.7)	9.5	(3.9)	11.2	16.2	4.9	(2.1)	7.0	(3.0)
20	-0.4	(0.2)	-0.6	(0.2)	6.7	(3.8)	9.7	(5.5)	13.9	20.1	4.3	(2.6)	6.2	(3.7)
21	-0.6	(0.3)	-0.8	(0.5)	7.9	(5.3)	11.5	(7.7)	15.1	21.7	4.4	(3.2)	6.4	(4.5)
22	-0.4	(0.3)	-0.6	(0.4)	8.9	(6.2)	12.8	(8.9)	18.7	26.9	4.4	(3.2)	6.3	(4.6)
23	0.2	(0.5)	0.3	(0.8)	11.5	(7.1)	16.5	(10.3)	20.7	29.9	5.2	(3.2)	7.4	(4.6)
24	0.0	(0.4)	0.0	(0.6)	11.9	(7.8)	17.1	(11.2)	24.0	34.5	5.5	(3.7)	7.9	(5.3)
25	-0.1	(0.1)	-0.2	(0.2)	12.6	(8.2)	18.0	(11.7)	25.1	36.1	6.3	(4.0)	9.1	(5.7)
26	0.4	(0.1)	0.5	(0.1)	13.1	(8.4)	18.8	(12.0)	24.6	35.3	7.1	(4.3)	10.2	(6.2)
27	0.5	(0.3)	0.7	(0.5)	14.7	(10.7)	21.1	(15.3)	38.6	55.4	8.1	(5.4)	11.6	(7.8)
28	1.7	(0.5)	2.4	(0.7)	18.9	(14.3)	27.2	(20.5)	44.7	64.3	9.7	(6.9)	14.0	(9.9)
29	1.6	(0.9)	2.3	(1.3)	18.7	(13.5)	26.9	(19.5)	45.0	64.7	11.0	(6.3)	15.8	(9.0)
30	0.9	(1.2)	1.4	(1.8)	22.1	(15.1)	31.8	(21.8)	50.4	72.5	16.7	(11.1)	23.9	(16.0)
31	-0.2	(0.3)	-0.2	(0.4)	30.3	(18.3)	43.4	(26.3)	52.4	75.2	20.7	(11.8)	29.7	(16.9)
Avg	0.1		0.1		14.5		20.8		39.9	57.5	12.8		16.7	
n	31		31		31		31		31	31	30		20	
SD	0.7		0.9		16.2		23.3		67.7	97.7	18.8		24.3	
Min	-0.8		-1.1		2.3		3.3		4.2	6.0	1.6		6.2	
Max	1.7		2.4		71.9		104.0		299.0	432.0	82.9		119.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for September, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	0.6	(0.8)	0.9	(1.1)	32.7	(19.6)	46.8	(28.1)	62.5	89.7	22.9	(13.2)	32.8	(18.9)
2	1.6	(0.9)	2.3	(1.2)	37.4	(23.7)	54.3	(34.0)	70.3	101.0	27.1	(16.8)	39.3	(24.0)
3	2.7	(0.5)	3.9	(0.7)	37.9	(28.0)	54.4	(40.3)	85.9	123.0	30.2	(20.4)	43.3	(29.3)
4	3.0	(0.7)	4.3	(1.0)	24.8	(14.0)	35.6	(20.1)	53.0	75.9	25.7	(14.8)	36.9	(21.2)
5	2.7	(0.6)	3.9	(0.9)	21.7	(9.9)	31.1	(14.2)	43.7	62.6	25.0	(13.5)	35.9	(19.4)
6	5.3	(0.7)	7.6	(1.0)	24.7	(10.8)	35.5	(15.5)	51.3	73.6	26.8	(13.8)	38.5	(19.7)
7	4.2	(0.6)	5.9	(0.9)	27.7	(10.8)	39.7	(15.5)	52.6	75.5	28.8	(13.5)	41.3	(19.3)
8	2.4	(0.3)	3.5	(0.4)	35.8	(17.3)	51.4	(24.8)	70.5	101.0	37.9	(18.6)	54.4	(26.7)
9	1.9	(0.3)	2.7	(0.4)	42.6	(17.8)	61.1	(25.6)	71.2	102.0	50.3	(22.8)	72.2	(32.8)
10	1.9	(0.5)	2.8	(0.7)	46.8	(22.3)	67.3	(32.0)	89.0	128.0	50.8	(27.3)	72.9	(39.2)
11	1.9	(0.8)	2.7	(1.2)	47.7	(24.2)	68.5	(34.8)	88.0	126.0	43.9	(25.4)	63.0	(36.5)
12	1.3	(0.3)	1.9	(0.4)	47.9	(24.8)	68.8	(35.7)	98.4	141.0	41.5	(23.0)	59.6	(33.0)
13	1.2	(0.4)	1.8	(0.5)	48.1	(21.0)	69.1	(30.1)	86.6	124.0	41.7	(18.3)	59.8	(26.3)
14	1.5	(0.4)	2.1	(0.5)	48.8	(21.1)	70.0	(30.3)	100.0	144.0	43.8	(21.2)	62.9	(30.4)
15	2.4	(0.5)	3.5	(0.7)	50.1	(19.8)	71.9	(28.4)	91.0	131.0	45.4	(20.2)	65.1	(29.0)
16	2.4	(0.3)	3.4	(0.4)	43.4	(14.1)	62.3	(20.2)	77.0	111.0	40.8	(15.3)	58.5	(22.0)
17	1.4	(0.3)	2.0	(0.4)	43.0	(14.5)	61.6	(20.8)	74.9	107.0	43.0	(15.9)	61.7	(22.8)
18	2.1	(0.3)	3.0	(0.4)	46.9	(17.7)	67.2	(25.4)	77.9	112.0	47.1	(19.6)	67.6	(28.2)
19	0.7	(0.5)	1.1	(0.6)	40.2	(11.9)	57.6	(17.1)	64.0	91.7	41.2	(13.6)	59.1	(19.5)
20	0.8	(0.8)	1.2	(1.2)	40.6	(6.8)	58.3	(9.7)	54.5	78.1	37.2	(7.3)	53.4	(10.4)
21	2.5	(0.2)	3.6	(0.4)	47.0	(13.1)	67.4	(18.8)	79.7	114.0	42.6	(13.0)	61.1	(18.7)
22	1.8	(0.4)	2.6	(0.5)	42.2	(17.0)	60.5	(24.4)	80.0	115.0	40.6	(19.2)	58.2	(27.5)
23	3.6	(2.0)	5.1	(2.9)	31.9	(10.7)	45.7	(15.2)	64.8	92.8	33.8	(13.7)	48.4	(19.7)
24	3.7	(2.2)	5.3	(3.1)	27.2	(8.2)	39.5	(11.5)	52.0	74.3	28.0	(9.5)	40.5	(13.4)
25	0.6	(0.2)	0.9	(0.4)	22.1	(7.0)	31.6	(10.1)	43.8	62.7	21.5	(6.3)	30.8	(8.9)
26	1.6	(0.5)	2.2	(0.7)	18.8	(6.1)	26.9	(8.8)	31.7	45.4	18.7	(6.4)	26.8	(9.1)
27														
28														
29														
30														
Avg	2.2		3.1		37.6		54		69.8	100.0	36		51.7	
n	26		26		26		26		26	26	26		26	
SD	1.1		1.6		9.7		13.9		17.7	25.5	9.2		13.2	
Min	0.6		0.9		18.8		26.9		31.7	45.4	18.7		26.8	
Max	5.3		7.6		50.1		71.9		100.0	144.0	50.8		72.9	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for November, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20	-1.0	(0.9)	-1.4	(1.3)	45.5	(14.2)	66.3	(20.3)	65.1	93.6	47.7	(15.7)	69.2	(22.5)
21	2.6	(2.2)	3.8	(3.2)	50.4	(10.1)	72.4	(14.6)	68.1	98.0	49.6	(9.2)	71.2	(13.1)
22	4.7	(2.7)			52.9	(15.3)	76.0	(22.0)	76.7	110.0	52.3	(15.7)	75.0	(22.5)
23	8.1	(8.2)			55.1	(16.6)	79.1	(23.8)	85.8	123.0	57.5	(17.0)	82.4	(24.3)
24	4.5	(0.9)			54.0	(9.7)	77.6	(14.0)	69.1	99.2	54.5	(12.2)	78.1	(17.4)
25	5.9	(0.3)			45.9	(11.4)	65.9	(16.1)	63.2	90.5				
26	4.4	(1.0)			45.5	(6.2)	65.4	(9.0)	55.4	79.5	51.0	(9.2)	73.2	(13.3)
27	3.2	(0.6)			41.4	(4.9)			49.8		42.2	(5.0)	60.5	(7.2)
28	4.0	(1.3)			37.6	(4.4)	55.7	(5.8)	45.9	65.9	30.8	(5.8)	44.1	(8.4)
29	2.0	(0.9)			40.1	(7.8)	57.7	(11.2)	52.3	75.1	42.9	(9.4)	61.5	(13.4)
30	2.9	(1.2)			41.7	(10.1)	59.6	(14.8)	60.3	86.5	47.9	(12.0)	68.7	(17.2)
Avg	3.8		1.2		46.4		67.6		62.9	92.2	47.7		68.4	
n	11		2		11		10		11	10	10		10	
SD	2.2		2.6		5.7		8		11.4	16	7.2		10.3	
Min	-1.0		-1.4		37.6		55.7		45.9	65.9	30.8		44.1	
Max	8.1		3.8		55.1		79.1		85.8	123.0	57.5		82.4	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for December, 2008.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	2.4	(0.5)			40.3	(3.0)	57.6	(4.2)	46.4	66.6	44.2	(3.8)	63.3	(5.4)
2	2.3	(1.1)			37.3	(4.6)	53.6	(6.5)	42.5	61.0	40.7	(5.3)	58.4	(7.6)
3	1.9	(0.2)	2.7	(0.3)	38.9	(7.8)	54.9	(11.8)	49.1	70.6	37.4	(10.8)	53.8	(15.7)
4	2.7	(1.9)	3.8	(2.7)	24.6	(42.5)	37.7	(62.5)	153.0	219.0	6.6	(3.0)	9.4	(4.2)
5	2.0	(1.5)	2.8	(2.1)	5.2	(1.3)	7.5	(1.8)	9.0	12.8	8.1	(1.5)	11.6	(2.1)
6	0.7	(0.1)	1.0	(0.2)	3.1	(0.5)	4.4	(0.8)	4.2	6.0	5.1	(0.5)	7.2	(0.8)
7	0.9	(0.2)	1.3	(0.2)	4.6	(1.3)	6.6	(1.9)	7.1	10.1	7.1	(2.1)	10.0	(3.1)
8	1.1	(0.1)	1.6	(0.2)	18.6	(16.1)	26.6	(23.0)	41.0	58.6	26.3	(22.4)	37.5	(32.0)
9	2.6	(1.2)	3.6	(1.8)	37.5	(2.5)	53.6	(3.6)	44.4	63.6	49.9	(8.6)	71.3	(12.2)
10	2.0	(1.4)	2.9	(2.0)	30.8	(2.5)	44.2	(3.6)	36.0	51.5	44.4	(2.7)	63.5	(4.0)
11	1.1	(1.0)	1.6	(1.4)	29.7	(3.6)	42.6	(5.1)	36.2	52.0	41.5	(5.1)	59.6	(7.3)
12	1.7	(1.3)	2.5	(1.8)	26.8	(4.1)	38.4	(5.8)	31.9	45.7	38.4	(5.3)	55.1	(7.6)
13	2.0	(2.3)	2.9	(3.3)	21.7	(4.9)	31.1	(7.1)	31.4	45.0	30.5	(7.2)	43.7	(10.3)
14	2.2	(2.9)	3.2	(4.1)	17.9	(2.5)	25.7	(3.5)	22.6	32.3	24.3	(3.5)	34.8	(5.0)
15	0.5	(0.4)	0.7	(0.5)	19.8	(2.2)	28.4	(3.2)	24.9	35.7	23.6	(2.3)	33.9	(3.3)
16	0.5	(0.2)	0.6	(0.2)	14.8	(2.3)	21.3	(3.3)	20.8	29.8	16.9	(3.4)	24.2	(4.8)
17	0.4	(0.2)	0.6	(0.2)	8.6	(3.2)	12.4	(4.6)	13.4	19.2	9.5	(3.8)	13.6	(5.5)
18	0.2	(0.2)	0.3	(0.3)	8.6	(3.3)	12.3	(4.8)	13.1	18.8	10.8	(3.3)	15.4	(4.7)
19	1.3	(1.0)	1.8	(1.4)	14.1	(2.3)	20.2	(3.3)	21.2	30.4	14.6	(1.6)	21.0	(2.3)
20	2.0	(0.9)	2.9	(1.2)	9.5	(3.0)	13.6	(4.4)	14.3	20.5	9.7	(2.8)	14.0	(4.0)
21	1.8	(0.7)	2.6	(1.0)	6.4	(4.2)	9.2	(6.0)	14.3	20.6	6.0	(3.7)	8.6	(5.3)
22	2.3	(1.7)	3.3	(2.5)	16.8	(6.1)	24.2	(8.8)	28.5	41.0	12.6	(4.0)	18.1	(5.7)
23	0.8	(0.2)	1.1	(0.3)	25.3	(2.4)	36.5	(3.5)	30.4	43.8	17.6	(1.7)	25.3	(2.4)
24	0.7	(0.4)	1.0	(0.5)	27.6	(2.1)	39.8	(3.1)	31.4	45.3	20.0	(1.2)	28.7	(1.7)
25	0.7	(0.2)	0.9	(0.3)	28.2	(3.6)	40.6	(5.1)	33.9	48.8	20.2	(2.1)	29.1	(3.1)
26	1.8	(1.3)	2.5	(1.8)	26.9	(6.1)	38.7	(8.7)	38.6	55.4	19.2	(3.2)	27.6	(4.6)
27	4.7	(2.7)	6.6	(3.8)	35.5	(11.6)	51.1	(16.8)	72.5	104.0	24.1	(5.9)	34.6	(8.5)
28	6.1	(3.8)	8.6	(5.5)	45.8	(7.8)	65.9	(11.2)	63.9	91.9	29.3	(4.6)	42.1	(6.6)
29	25.4	(13.8)	36.3	(19.6)	55.9	(10.1)	80.6	(14.6)	76.8	111.0	35.5	(6.3)	51.0	(9.0)
30	3.9	(0.5)	5.6	(0.7)	68.5	(7.6)	98.7	(10.9)	89.6	129.0	46.7	(4.5)	67.1	(6.5)
31	3.6	(0.5)	5.1	(0.8)	72.4	(15.0)	104.0	(21.5)	97.2	140.0	59.6	(8.0)	85.7	(11.4)
Avg	2.7		3.8		26.5		38.1		40.0	57.4	25.2		36.1	
n	31		29		31		31		31	31	31		31	
SD	4.4		6.4		17.2		24.8		30.8	44.3	14.9		21.4	
Min	0.2		0.3		3.1		4.4		4.2	6.0	5.1		7.2	
Max	25.4		36.3		72.4		104.0		153.0	219.0	59.6		85.7	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for January, 2009.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	2.1	(0.3)	2.9	(0.4)	86.9	(8.5)	125.0	(12.2)	104.0	150.0	88.5	(6.8)	127.0	(9.8)
2	2.3	(0.2)	3.3	(0.2)	77.9	(15.1)	112.0	(21.6)	112.0	161.0	92.0	(12.6)	132.0	(18.0)
3	1.8	(0.5)	2.5	(0.7)	49.3	(20.0)	77.3	(24.8)	80.9	116.0	65.2	(20.8)	93.6	(29.8)
4	1.9	(0.4)	2.7	(0.5)	46.5	(26.1)	66.5	(37.5)	78.8	113.0	58.7	(29.3)	84.3	(42.1)
5	1.9	(0.1)	2.8	(0.1)	58.4	(8.7)	84.0	(12.5)	78.0	112.0	69.4	(11.8)	99.6	(16.9)
6	3.0	(2.0)	4.2	(2.9)	61.9	(11.6)	89.0	(16.7)	83.2	120.0	70.3	(12.3)	101.0	(17.7)
7	5.0	(1.0)	7.1	(1.5)	50.5	(19.8)	72.8	(28.4)	84.6	122.0	53.0	(23.8)	76.2	(34.2)
8	2.8	(1.2)	4.0	(1.7)	41.3	(16.4)	62.0	(24.3)	77.1	111.0	43.8	(19.0)	62.9	(27.3)
9	2.3	(1.3)	3.3	(1.8)	50.9	(10.5)			73.8		50.8	(12.5)	72.8	(18.0)
10	5.8	(1.0)	8.3	(1.4)	65.7	(17.5)			96.7		68.3	(17.9)	98.0	(25.7)
11	7.8	(2.0)	11.1	(2.8)	67.8	(18.6)	92.2	(26.2)	97.8	139.0	71.6	(20.6)	103.0	(29.6)
12	3.8	(1.3)	5.4	(1.9)	67.6	(20.2)	97.0	(29.0)	92.8	133.0	72.4	(22.9)	104.0	(32.9)
13	6.7	(2.0)	9.6	(2.8)	69.8	(22.5)	100.0	(32.4)	97.8	140.0	75.9	(25.2)	109.0	(36.2)
14	6.1	(2.7)	8.7	(3.8)	67.8	(24.1)	97.3	(34.6)	101.0	146.0	74.5	(26.6)	107.0	(38.1)
15	10.9	(5.6)	15.5	(8.0)	61.0	(22.1)	87.5	(31.7)	90.6	130.0	67.6	(25.9)	96.9	(37.1)
16	11.1	(9.2)	15.9	(13.1)	62.9	(22.5)	84.4	(32.1)	93.7	134.0	65.8	(28.5)	94.4	(40.9)
17	4.1	(1.5)	5.8	(2.2)	59.0	(20.9)	82.0	(29.8)	87.6	125.0	61.9	(28.8)	88.7	(41.2)
18	5.1	(3.0)	7.3	(4.3)	55.0	(20.0)	78.7	(28.7)	82.6	118.0	58.0	(23.8)	83.1	(34.0)
19	13.7	(9.9)	19.5	(14.1)	56.6	(20.4)	81.1	(29.2)	95.6	137.0	53.9	(22.0)	77.2	(31.6)
20	12.6	(6.0)	18.0	(8.5)	53.2	(17.6)	76.3	(25.2)	84.7	121.0	49.7	(19.1)	71.1	(27.4)
21	4.6	(2.5)	6.6	(3.6)	45.7	(12.0)	65.5	(17.2)	78.7	113.0	54.8	(10.9)	78.6	(15.6)
22	8.4	(1.2)	12.0	(1.8)	47.5	(5.9)	68.1	(8.5)	56.4	80.8	52.4	(8.0)	75.2	(11.5)
23	3.4	(0.9)	4.8	(1.3)	48.8	(5.1)	70.0	(7.3)	56.5	81.0	45.7	(5.6)	65.5	(8.0)
24	3.7	(0.3)	5.2	(0.5)	42.9	(8.0)	61.5	(11.4)	53.5	76.8	40.2	(6.4)	57.7	(9.2)
25	1.6	(0.7)	2.3	(1.0)	44.1	(6.3)	63.1	(9.1)	54.9	78.6	41.9	(6.1)	60.1	(8.7)
26	2.5	(0.9)	3.6	(1.3)	43.2	(7.7)	61.9	(11.0)	55.0	78.7	40.6	(8.1)	58.1	(11.7)
27	2.7	(1.3)	3.8	(1.8)	40.7	(8.0)	58.2	(11.5)	61.6	88.0	37.3	(7.2)	53.3	(10.3)
28	2.1	(1.8)	3.0	(2.6)	23.7	(18.1)	33.8	(25.8)	56.9	81.3	23.8	(17.5)	34.0	(25.0)
29	2.4	(1.1)	3.4	(1.5)	11.4	(9.4)	16.3	(13.4)	31.7	45.4	10.9	(7.8)	15.6	(11.2)
30	7.5	(7.1)	10.6	(10.0)	128.0	(97.0)	183.0	(139.0)	324.0	464.0	111.0	(83.8)	159.0	(120.0)
31	6.1	(5.1)	9.3	(7.7)	227.0	(70.9)	343.0	(96.9)	337.0	482.0	227.0	(66.1)	342.0	(87.8)
Avg	5		7.2		61.7		89.3		95.5	138.0	64.4		92.9	
n	31		31		31		29		31	29	31		31	
SD	3.3		4.8		35.9		55.8		64.3	95	35.4		53.4	
Min	1.6		2.3		11.4		16.3		31.7	45.4	10.9		15.6	
Max	13.7		19.5		227.0		343.0		337.0	482.0	227.0		342.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for February, 2009.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	2.6	(0.5)	3.7	(0.7)	138.0	(30.2)	197.0	(43.1)	200.0	287.0	156.0	(33.4)	224.0	(47.6)
2	1.9	(0.8)	2.7	(1.1)	88.5	(16.8)	127.0	(24.0)	137.0	197.0	104.0	(20.0)	148.0	(28.6)
3	3.9	(0.6)	5.5	(0.8)	61.2	(9.0)	87.7	(12.7)	79.0	113.0	68.8	(9.5)	98.5	(13.4)
4	1.4	(0.7)	2.1	(0.9)	44.0	(19.8)	63.8	(28.8)	100.0	144.0	52.2	(19.0)	75.9	(27.3)
5	0.7	(0.2)	0.9	(0.2)	32.5	(10.1)	46.6	(14.7)	44.7	63.9	33.7	(11.9)	48.2	(17.4)
6	0.6	(0.4)	0.8	(0.6)	41.5	(3.3)	59.4	(4.7)	47.6	68.2	41.1	(2.4)	58.8	(3.4)
7	4.1	(4.5)	5.9	(6.4)	44.2	(7.7)	63.4	(11.1)	57.3	82.3	42.3	(6.9)	60.7	(10.0)
8	5.4	(5.7)	7.8	(8.1)	46.7	(6.0)	67.0	(8.6)	55.1	78.9	43.6	(5.7)	62.5	(8.2)
9	0.8	(0.3)	1.1	(0.4)	48.0	(3.0)	68.7	(4.3)	52.7	75.5	43.9	(3.5)	62.9	(4.9)
10	1.0	(0.4)	1.4	(0.6)	49.2	(3.1)	70.6	(4.5)	55.2	79.2	46.6	(2.5)	66.8	(3.6)
11	0.9	(0.3)	1.3	(0.4)	44.5	(4.1)	63.9	(5.9)	52.2	74.9	42.0	(4.3)	60.3	(6.1)
12	3.7	(3.1)	5.2	(4.4)	48.1	(4.3)	69.1	(6.1)	56.8	81.6	46.6	(5.4)	66.9	(7.7)
13	2.1	(1.6)	3.1	(2.2)	43.2	(5.6)	62.1	(8.1)	52.1	74.8	41.9	(5.7)	60.2	(8.2)
14	1.1	(0.2)	1.6	(0.2)	42.2	(2.2)	60.6	(3.1)	46.1	66.2	39.3	(2.2)	56.4	(3.1)
15	0.5	(0.2)	0.7	(0.3)	32.1	(4.4)	46.1	(6.3)	42.2	60.6	29.0	(3.9)	41.5	(5.6)
16	1.6	(0.4)	2.3	(0.6)	32.1	(2.6)	46.1	(3.8)	36.8	52.9	26.5	(1.9)	38.0	(2.7)
17	0.8	(0.2)	1.2	(0.3)	23.0	(7.5)	34.0	(10.2)	34.2	49.2	18.3	(5.1)	27.0	(6.8)
18	0.7	(0.4)	1.1	(0.6)	41.1	(7.0)	59.3	(10.0)	56.3	81.2	28.8	(4.4)	41.5	(6.3)
19	1.3	(0.3)	1.8	(0.4)	43.7	(10.9)	62.9	(15.8)	55.2	79.6	29.5	(8.4)	42.4	(12.1)
20	2.6	(1.4)	3.7	(2.0)	46.5	(9.3)	67.4	(13.3)	69.5	100.0	32.0	(6.1)	46.3	(8.8)
21	2.6	(1.9)	3.7	(2.7)	50.1	(3.8)	72.2	(5.5)	61.7	88.9	35.1	(2.8)	50.5	(4.1)
22	1.4	(0.3)	2.0	(0.4)	54.8	(6.1)	79.0	(8.8)	70.3	101.0	40.8	(4.2)	58.7	(6.1)
23	1.6	(0.7)	2.3	(1.0)	67.0	(15.4)	96.7	(22.3)	88.8	128.0	48.5	(9.6)	69.9	(13.9)
24	1.8	(0.4)	2.6	(0.6)	69.5	(20.4)	100.0	(29.5)	101.0	146.0	48.1	(13.9)	69.2	(20.0)
25	5.1	(3.8)	7.3	(5.5)	73.4	(20.3)	106.0	(29.4)	106.0	152.0	52.3	(15.8)	75.2	(22.8)
26	4.9	(2.4)	7.0	(3.5)	93.2	(23.8)	134.0	(34.3)	125.0	181.0	65.8	(17.3)	94.6	(25.0)
27	2.5	(2.2)	3.6	(3.1)	115.0	(24.5)	166.0	(35.3)	163.0	234.0	77.7	(17.7)	112.0	(25.5)
28	7.7	(3.2)	11.0	(4.5)	142.0	(21.6)	204.0	(31.1)	169.0	243.0	101.0	(13.6)	146.0	(19.6)
Avg	2.3		3.3		59.1		85		79.1	114.0	51.3		73.7	
n	28		28		28		28		28	28	28		28	
SD	1.8		2.5		29.8		42.7		42.8	61.5	28.2		40.4	
Min	0.5		0.7		23.0		34.0		34.2	49.2	18.3		27.0	
Max	7.7		11.0		142.0		204.0		200.0	287.0	156.0		224.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for March, 2009.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	3.1	(1.4)	4.5	(2.0)	148.0	(10.2)	213.0	(14.7)	182.0	263.0	120.0	(11.7)	173.0	(16.9)
2	1.5	(0.2)	2.1	(0.3)	109.0	(33.6)	157.0	(48.4)	185.0	267.0	110.0	(27.2)	159.0	(39.1)
3	2.9	(0.6)	4.2	(0.8)	97.2	(14.7)	140.0	(21.1)	129.0	185.0	111.0	(21.4)	160.0	(30.8)
4	2.3	(1.2)	3.3	(1.7)	109.0	(16.3)	156.0	(23.5)	137.0	196.0	113.0	(16.5)	162.0	(23.7)
5	2.1	(1.1)	3.0	(1.6)	107.0	(24.0)	154.0	(34.6)	141.0	203.0	114.0	(27.2)	164.0	(39.1)
6	1.7	(0.4)	2.4	(0.5)	104.0	(27.3)	150.0	(39.2)	148.0	212.0	110.0	(27.6)	158.0	(39.7)
7	2.7	(1.3)	3.8	(1.9)	114.0	(24.7)	164.0	(35.5)	151.0	216.0	110.0	(25.1)	158.0	(36.0)
8	2.4	(0.9)	3.4	(1.3)	110.0	(35.3)	158.0	(50.7)	171.0	246.0	108.0	(35.7)	155.0	(51.2)
9	2.6	(1.1)	3.6	(1.6)	125.0	(30.1)	179.0	(43.3)	177.0	254.0	113.0	(27.5)	163.0	(39.6)
10	5.7	(1.4)	8.1	(1.9)	132.0	(43.6)	189.0	(62.7)	229.0	328.0	128.0	(43.3)	183.0	(62.1)
11	9.5	(3.9)	13.5	(5.5)	137.0	(41.5)	196.0	(59.7)	208.0	298.0	138.0	(41.8)	197.0	(60.0)
12	3.1	(0.8)	4.5	(1.1)	119.0	(41.7)	171.0	(59.9)	178.0	255.0	119.0	(41.2)	170.0	(59.1)
13	2.3	(0.3)	3.2	(0.4)	112.0	(42.3)	161.0	(60.8)	173.0	248.0	105.0	(37.6)	151.0	(54.0)
14	2.0	(0.4)	2.8	(0.6)	119.0	(25.5)	171.0	(36.6)	158.0	227.0	130.0	(26.2)	186.0	(37.7)
15	2.0	(1.8)	2.9	(2.6)	92.1	(34.4)	132.0	(49.5)	137.0	196.0	103.0	(41.8)	148.0	(60.0)
16	3.5	(1.9)	5.0	(2.7)	90.2	(35.9)	129.0	(51.7)	152.0	219.0	96.7	(40.0)	139.0	(57.6)
17	3.7	(1.4)	5.2	(1.9)	78.4	(34.5)	113.0	(49.6)	142.0	204.0	79.7	(34.7)	114.0	(49.9)
18	6.2	(3.3)	8.8	(4.8)	58.4	(16.4)	83.7	(23.5)	103.0	147.0	64.2	(18.7)	92.1	(26.8)
19	5.0	(2.3)	7.1	(3.3)	59.8	(27.0)	85.8	(38.8)	102.0	146.0	61.1	(27.6)	87.6	(39.6)
20	2.3	(1.0)	3.2	(1.4)	54.5	(21.2)	78.2	(30.3)	83.1	119.0	56.1	(22.4)	80.4	(32.1)
21	2.7	(0.6)	3.8	(0.8)	59.9	(18.0)	85.9	(25.9)	85.4	122.0	64.6	(19.0)	92.7	(27.2)
22	1.8	(1.1)	2.6	(1.5)	63.1	(15.3)	90.4	(22.1)	93.0	133.0	69.6	(16.0)	99.8	(23.0)
23	1.9	(0.6)	2.7	(0.8)	54.1	(14.0)	77.3	(20.1)	74.2	106.0	55.7	(14.7)	79.8	(21.0)
24	2.0	(0.6)	2.9	(0.9)	60.9	(23.1)	87.3	(33.1)	101.0	145.0	58.6	(21.9)	84.0	(31.4)
25	2.6	(1.1)	3.8	(1.6)	56.5	(22.6)	81.0	(32.4)	93.2	134.0	57.8	(22.5)	83.0	(32.3)
26	2.1	(0.7)	3.0	(1.1)	40.9	(22.4)	58.6	(32.2)	79.5	114.0	44.7	(23.9)	64.1	(34.3)
27	3.3	(2.1)	4.8	(3.0)	76.9	(68.6)	110.0	(98.7)	231.0	332.0	34.6	(17.4)	49.6	(24.9)
28	5.0	(2.3)	7.2	(3.3)	112.0	(108.0)	161.0	(154.0)	294.0	422.0	12.5	(6.8)	17.9	(9.8)
29	0.7	(0.6)	1.0	(0.9)	3.0	(0.9)	4.2	(1.3)	5.6	8.0	3.0	(0.7)	4.3	(1.0)
30	6.2	(6.9)	8.9	(9.8)	8.3	(7.3)	11.9	(10.4)	21.9	31.4	24.0	(34.2)	34.4	(49.0)
31	3.9	(4.2)	5.5	(5.9)	6.6	(7.2)	9.5	(10.3)	20.9	30.0	41.5	(54.1)	59.4	(77.4)
Avg	3.2		4.5		84.4		121		135.0	194.0	82.5		118	
n	31		31		31		31		31	31	31		31	
SD	1.8		2.5		37.9		54.4		62.8	90.3	36.7		52.8	
Min	0.7		1.0		3.0		4.2		5.6	8.0	3.0		4.3	
Max	9.5		13.5		148.0		213.0		294.0	422.0	138.0		197.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for April, 2009.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	1.7	(0.3)	2.4	(0.5)	5.4	(5.3)	7.7	(7.6)	18.1	26.0	7.5	(8.6)	10.8	(12.3)
2	0.3	(0.4)	0.4	(0.5)	6.1	(7.7)	8.8	(11.0)	18.0	25.7	10.0	(12.7)	14.3	(18.2)
3	0.9	(0.8)	1.3	(1.2)	0.7	(0.6)	1.0	(0.9)	2.9	4.1	0.5	(0.4)	0.7	(0.6)
4	4.5	(2.8)	6.4	(4.0)	3.1	(7.4)	4.4	(10.6)	34.9	49.7	3.3	(7.0)	4.8	(10.0)
5	10.0	(5.5)	14.2	(7.8)	4.2	(6.9)	6.0	(9.9)	34.4	49.0	4.1	(8.0)	5.8	(11.3)
6	7.5	(8.4)	10.7	(11.9)	3.5	(7.5)	5.0	(10.6)	39.9	56.9	1.5	(1.7)	2.1	(2.4)
7	0.7	(0.1)	1.0	(0.2)	0.7	(0.7)	1.0	(1.0)	3.0	4.2	0.6	(0.7)	0.8	(1.1)
8	0.8	(0.2)	1.2	(0.3)	1.3	(0.6)	1.9	(0.9)	3.4	4.8	1.5	(0.5)	2.2	(0.8)
9	0.7	(0.3)	1.1	(0.4)	2.0	(0.7)	2.9	(1.0)	4.5	6.4	2.4	(0.7)	3.4	(0.9)
10	0.4	(0.0)	0.5	(0.1)	1.1	(0.7)	1.7	(1.1)	2.8	4.0	1.7	(0.5)		
11	0.5	(0.2)	0.7	(0.2)	1.9	(0.4)	2.8	(0.6)	3.1	4.4	2.3	(0.6)	3.3	(0.9)
12	0.4	(0.4)	0.6	(0.6)	2.9	(0.6)	4.1	(0.9)	4.6	6.5	3.2	(0.7)	4.6	(1.1)
13	0.4	(0.3)	0.5	(0.5)	6.0	(1.5)	8.6	(2.2)	9.7	13.9	6.5	(1.6)	9.4	(2.3)
14	0.4	(0.1)	0.6	(0.2)	6.5	(1.4)	9.3	(2.1)	8.9	12.7	6.8	(1.5)	9.8	(2.1)
15	0.2	(0.2)	0.2	(0.3)	9.1	(1.6)	13.0	(2.3)	12.4	17.8	8.7	(1.7)	12.5	(2.5)
16	0.7	(0.3)	1.1	(0.5)	10.8	(1.6)	15.5	(2.3)	14.3	20.6	9.4	(1.5)	13.5	(2.2)
17	1.1	(0.5)	1.5	(0.7)	11.0	(2.6)	15.8	(3.8)	15.3	22.0	9.0	(2.4)	12.9	(3.4)
18	1.1	(0.4)	1.5	(0.5)	9.5	(5.4)	13.7	(7.7)	20.9	30.0	8.4	(4.4)	12.0	(6.3)
19	0.9	(0.2)	1.2	(0.3)	8.8	(6.0)	12.7	(8.6)	19.8	28.5	7.3	(5.0)	10.5	(7.1)
20														
21														
22														
23														
24														
25														
26														
27														
28														
29	0.4	(0.2)	0.5	(0.2)	24.4	(7.8)	35.0	(11.3)	38.0	54.6	13.9	(4.3)	19.9	(6.2)
30	1.0	(0.5)	1.5	(0.7)	33.5	(12.6)	48.1	(18.1)	55.4	79.6	15.8	(5.9)	22.7	(8.4)
Avg	1.6		2.3		7.3		10.4		17.3	24.8	5.9		8.8	
n	21		21		21		21		21	21	21		20	
SD	2.5		3.6		7.9		11.3		14.7	21	4.2		6.1	
Min	0.2		0.2		0.7		1.0		2.8	4.0	0.5		0.7	
Max	10.0		14.2		33.5		48.1		55.4	79.6	15.8		22.7	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for May, 2009.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	1.2	(0.3)	1.7	(0.4)	62.1	(18.7)	89.5	(27.0)	107.0	154.0	33.8	(11.1)	48.7	(16.0)
2	3.3	(0.7)	4.7	(0.9)	126.0	(26.6)	181.0	(38.4)	199.0	287.0	75.6	(18.2)	109.0	(26.3)
3	2.6	(0.3)	3.8	(0.5)	148.0	(46.9)	213.0	(67.7)	226.0	325.0	104.0	(32.5)	150.0	(46.8)
4	1.7	(0.6)	2.4	(0.8)	111.0	(51.4)	160.0	(74.0)	200.0	287.0	98.0	(44.6)	141.0	(64.3)
5	2.7	(1.2)	3.9	(1.6)	80.4	(42.3)	116.0	(60.9)	156.0	225.0	89.5	(47.9)	129.0	(69.0)
6	2.0	(0.3)	2.9	(0.5)	68.0	(35.4)	97.9	(51.0)	119.0	171.0	76.4	(41.4)	110.0	(59.6)
7	2.1	(0.3)	3.0	(0.5)	66.6	(33.4)	95.7	(48.1)	116.0	166.0	74.3	(35.6)	107.0	(51.2)
8	1.9	(0.3)	2.7	(0.5)	56.7	(30.7)	81.3	(44.2)	104.0	150.0	64.6	(35.3)	92.7	(50.8)
9	2.2	(0.6)	3.2	(0.8)	51.0	(32.2)	73.1	(46.3)	108.0	155.0	56.8	(35.0)	81.5	(50.3)
10	2.3	(0.3)	3.3	(0.5)	35.3	(21.6)	50.6	(31.0)	74.9	107.0	50.5	(28.3)	72.5	(40.6)
11	1.8	(0.2)	2.6	(0.3)	41.7	(19.6)	59.8	(28.2)	80.7	116.0	51.3	(27.7)	73.6	(39.7)
12	2.6	(0.4)	3.6	(0.5)	57.9	(27.3)	82.9	(39.2)	100.0	144.0	59.4	(28.8)	85.2	(41.3)
13	2.7	(0.2)	3.8	(0.2)	50.2	(30.8)	72.0	(44.2)	111.0	160.0	54.5	(32.8)	78.2	(47.1)
14	2.4	(0.6)	3.4	(0.8)	44.6	(21.0)	64.0	(30.1)	89.0	128.0	48.7	(25.2)	69.9	(36.2)
15	3.9	(1.0)	5.7	(1.4)	46.9	(17.7)	67.4	(25.4)	89.2	128.0	49.8	(22.4)	71.6	(32.2)
16	3.4	(0.7)	4.8	(1.0)	35.0	(6.3)	50.3	(8.9)	51.2	73.4	37.5	(9.5)	53.9	(13.5)
17	2.6	(0.4)	3.8	(0.6)	30.3	(3.9)	43.5	(5.6)	39.4	56.6	31.9	(5.8)	46.0	(8.3)
18	1.9	(0.3)	2.7	(0.5)	25.3	(2.5)	36.4	(3.6)	30.6	44.0	26.9	(3.4)	38.7	(4.9)
19	1.7	(0.3)	2.5	(0.4)	25.0	(2.2)	35.8	(3.1)	30.5	43.6	27.9	(3.8)	40.1	(5.4)
20	1.5	(0.3)	2.2	(0.4)	26.5	(7.6)	37.9	(10.8)	44.8	64.1	31.1	(12.0)	44.6	(17.1)
21	1.8	(0.6)	2.6	(0.9)	29.6	(6.7)	42.3	(9.6)	48.0	68.6	31.3	(11.4)	44.9	(16.3)
22	1.5	(0.3)	2.1	(0.4)	30.7	(6.2)	44.1	(8.9)	50.0	71.6	31.1	(9.0)	44.6	(12.9)
23	1.6	(0.1)	2.3	(0.2)	34.0	(9.7)	48.7	(13.9)	52.4	75.1	34.1	(9.4)	48.9	(13.5)
24	1.7	(0.2)	2.4	(0.2)	33.4	(9.9)	47.9	(14.1)	47.0	67.3	33.9	(10.2)	48.7	(14.7)
25	2.4	(0.4)	3.4	(0.6)	31.9	(8.3)	45.7	(11.8)	45.6	65.3	30.9	(8.1)	44.4	(11.5)
26	2.7	(0.8)	3.9	(1.1)	23.1	(8.9)	33.2	(12.7)	44.9	64.3	26.2	(11.7)	37.6	(16.8)
27	4.9	(0.9)	7.0	(1.4)	23.1	(9.1)	33.3	(13.1)	49.4	70.8	24.7	(14.4)	35.6	(20.7)
28	1.8	(0.4)	2.5	(0.6)	27.4	(13.5)	39.2	(19.3)	46.7	66.9	29.4	(14.1)	42.1	(20.2)
29	1.4	(0.4)	2.0	(0.5)	53.8	(12.7)	77.1	(18.2)	84.3	121.0	61.8	(20.4)	88.5	(29.3)
30	0.7	(0.1)	0.9	(0.2)	21.5	(10.1)	30.8	(14.4)	43.0	61.6	29.8	(8.4)	42.7	(11.9)
31	0.3	(0.2)	0.4	(0.3)	9.0	(2.0)	12.8	(2.8)	13.3	19.1	14.1	(3.5)	20.2	(5.0)
Avg	2.2		3.1		48.6		69.8		83.9	121.0	48.1		69	
n	31		31		31		31		31	31	31		31	
SD	0.9		1.3		30.9		44.5		52.1	75.1	22.8		32.9	
Min	0.3		0.4		9.0		12.8		13.3	19.1	14.1		20.2	
Max	4.9		7.0		148.0		213.0		226.0	325.0	104.0		150.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for June, 2009.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	0.4	(0.2)	0.6	(0.4)	5.4	(2.4)	7.7	(3.4)	12.6	18.1	4.6	(4.3)	6.5	(6.1)
2														
3														
4														
5	0.9	(0.3)	1.3	(0.4)	42.3	(15.1)	61.0	(21.5)	60.4	86.8	76.2	(22.1)	110.0	(31.4)
6	0.8	(0.2)	1.1	(0.2)	42.8	(12.2)	61.5	(17.5)	57.2	82.1	74.4	(18.8)	107.0	(26.9)
7	0.6	(0.1)	0.9	(0.1)	35.2	(14.0)	50.6	(20.1)	54.6	78.4	57.4	(23.6)	82.4	(33.9)
8	0.4	(0.3)	0.5	(0.4)	27.3	(10.8)	39.2	(15.5)	39.9	57.3	41.0	(15.9)	58.9	(22.8)
9	0.6	(0.2)	0.9	(0.2)	25.1	(6.5)	36.0	(9.3)	33.1	47.5	36.8	(10.7)	52.8	(15.4)
10	0.8	(0.3)	1.1	(0.5)	24.6	(9.1)	35.4	(13.1)	34.8	49.9	34.9	(13.6)	50.2	(19.5)
11	0.6	(0.4)	0.9	(0.5)	22.9	(10.9)	33.0	(15.7)	38.5	55.3	30.7	(15.9)	44.2	(22.8)
12	0.3	(0.1)	0.4	(0.2)	21.3	(8.0)	30.6	(11.6)	31.0	44.5	28.8	(12.1)	41.4	(17.4)
13	0.5	(0.2)	0.7	(0.2)	20.8	(7.1)	30.0	(10.3)	30.3	43.6	27.6	(9.9)	39.8	(14.3)
14	0.4	(0.2)	0.5	(0.3)	22.0	(8.7)	31.7	(12.6)	34.5	49.8	23.9	(8.9)	34.3	(12.8)
15	0.5	(0.2)	0.7	(0.3)	25.5	(8.6)	36.6	(12.4)	36.4	52.3	24.2	(6.3)	34.8	(9.0)
16	0.8	(0.1)	1.1	(0.1)	19.1	(11.1)	27.5	(16.0)	35.4	50.9	17.9	(10.4)	25.8	(15.0)
17	0.9	(0.2)	1.3	(0.3)	15.8	(8.7)	22.7	(12.4)	26.5	38.1	14.4	(7.7)	20.7	(11.0)
18	0.9	(0.1)	1.3	(0.2)	13.3	(9.6)	19.2	(13.8)	28.7	41.3	12.8	(8.9)	18.4	(12.7)
19	0.4	(0.3)	0.6	(0.4)	12.5	(9.1)	17.9	(13.1)	27.9	40.1	12.0	(8.0)	17.2	(11.5)
20	0.3	(0.1)	0.4	(0.2)	14.9	(8.7)	21.3	(12.5)	29.6	42.6	13.1	(7.0)	18.8	(10.0)
21	0.8	(0.7)	1.1	(0.9)	18.9	(10.6)	27.1	(15.2)	41.9	60.2	15.5	(8.2)	22.2	(11.7)
22	1.8	(1.2)	2.6	(1.7)	24.2	(17.6)	34.7	(25.3)	51.0	73.3	18.2	(12.4)	26.2	(17.8)
23	1.4	(0.6)	2.0	(0.8)	19.2	(17.1)	27.5	(24.6)	51.4	73.9	15.3	(12.9)	21.9	(18.6)
24	1.2	(1.1)	1.7	(1.6)	16.3	(12.4)	23.4	(17.8)	47.2	67.7	14.6	(10.6)	20.9	(15.2)
25	0.6	(0.1)	0.8	(0.2)	16.5	(10.9)	25.2	(15.6)	40.9	58.7	17.8	(11.2)	27.1	(16.0)
26	0.7	(0.1)	1.0	(0.2)	19.5	(12.8)	28.8	(18.4)	43.5	62.5	19.7	(12.4)	29.0	(17.8)
27	0.6	(0.1)	0.8	(0.2)	19.7	(13.2)	28.3	(19.0)	50.9	73.1	18.5	(12.1)	26.6	(17.4)
28	0.7	(0.3)	1.1	(0.5)	17.6	(4.8)	25.4	(6.9)	32.0	46.0	18.4	(6.3)	26.5	(9.0)
29	0.7	(0.2)	1.0	(0.4)	18.5	(4.5)	26.6	(6.4)	32.8	47.1	20.5	(6.1)	29.5	(8.7)
30	1.3	(0.2)	1.9	(0.3)	23.3	(7.6)	33.4	(10.8)	45.1	64.7	26.9	(9.2)	38.6	(13.2)
Avg	0.7		1.1		21.7		31.2		38.8	55.8	26.5		38.2	
n	27		27		27		27		27	27	27		27	
SD	0.4		0.5		8		11.5		10.7	15.4	17.4		25	
Min	0.3		0.4		5.4		7.7		12.6	18.1	4.6		6.5	
Max	1.8		2.6		42.8		61.5		60.4	86.8	76.2		110.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for July, 2009.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	2.0	(0.4)	2.9	(0.6)	29.8	(9.2)	42.8	(13.1)	50.8	73.0	33.4	(12.1)	48.0	(17.4)
2	2.0	(0.2)	2.9	(0.3)	34.0	(13.3)	48.9	(19.0)	61.9	88.8	35.3	(15.4)	50.7	(22.1)
3	2.1	(0.4)	3.0	(0.6)	34.1	(13.3)	48.9	(19.1)	63.4	90.9	32.7	(14.3)	47.0	(20.6)
4	1.7	(0.3)	2.4	(0.4)	39.6	(14.9)	56.9	(21.3)	71.9	103.0	35.0	(12.3)	50.3	(17.6)
5	2.0	(0.6)	2.8	(0.8)	46.6	(20.0)	66.8	(28.7)	76.6	110.0	41.4	(17.5)	59.4	(25.2)
6	1.6	(0.5)	2.3	(0.7)	42.5	(22.4)	60.9	(32.1)	77.2	111.0	37.4	(17.9)	53.7	(25.7)
7	1.1	(0.2)	1.6	(0.3)	33.3	(19.6)	47.7	(28.0)	75.5	108.0	28.5	(14.8)	40.9	(21.3)
8	1.0	(0.3)	1.5	(0.4)	27.9	(12.8)	40.0	(18.4)	58.1	83.3	27.7	(11.6)	39.8	(16.6)
9	1.3	(0.3)	1.9	(0.5)	29.8	(12.6)	42.7	(18.0)	62.4	89.5	30.3	(13.2)	43.4	(19.0)
10	1.3	(0.4)	1.9	(0.6)	29.5	(15.3)	42.3	(21.8)	64.1	91.8	31.1	(14.1)	44.6	(20.3)
11	1.7	(0.3)	2.4	(0.5)	19.0	(2.7)	27.3	(3.8)	26.0	37.2	22.3	(4.9)	32.0	(6.9)
12	1.6	(0.2)	2.2	(0.3)	18.2	(2.3)	26.1	(3.3)	27.8	39.7	20.1	(3.1)	28.8	(4.4)
13	2.4	(1.3)	3.5	(1.8)	21.8	(3.8)	31.3	(5.4)	33.7	48.2	24.0	(5.3)	34.5	(7.5)
14	8.0	(0.9)	11.5	(1.2)	29.9	(20.9)	43.0	(30.1)	209.0	301.0	25.6	(6.1)	36.8	(8.7)
15	5.3	(0.7)	7.6	(1.1)										
16	3.0	(0.7)	4.4	(1.1)										
17	1.9	(0.4)	2.8	(0.6)	26.3	(4.4)	37.8	(6.4)	34.5	49.5	25.9	(4.3)	37.2	(6.2)
18	2.1	(0.2)	3.0	(0.3)	23.4	(3.5)	33.7	(5.2)	32.0	46.1	24.1	(3.5)	34.6	(5.1)
19	2.6	(0.4)	3.7	(0.6)	24.9	(3.7)	35.9	(5.4)	31.6	45.5	25.8	(3.5)	37.2	(5.2)
20	1.6	(0.3)	2.3	(0.4)	15.9	(5.0)	22.9	(7.1)	24.8	35.6	16.9	(5.0)	24.3	(7.2)
21	2.5	(0.5)	3.6	(0.8)	54.6	(67.9)	84.8	(100.0)	198.0	285.0				
22	1.7	(0.6)	2.4	(0.9)	44.0	(50.1)	63.1	(71.9)	152.0	218.0	18.8	(13.0)	27.0	(18.6)
23	1.5	(0.3)	2.2	(0.4)	19.2	(4.0)	27.5	(5.7)	26.3	37.7	20.2	(4.0)	29.0	(5.7)
24														
25														
26														
27														
28	0.4	(0.2)	0.6	(0.3)	32.7	(17.5)	47.0	(25.1)	54.1	77.7	33.0	(17.7)	47.4	(25.3)
29	0.3	(0.2)	0.4	(0.3)	31.8	(13.5)	45.7	(19.4)	48.0	68.9	31.6	(13.8)	45.3	(19.9)
30	0.4	(0.1)	0.5	(0.2)	25.4	(13.5)	36.6	(19.4)	41.1	59.1	27.8	(13.4)	40.0	(19.3)
31	0.3	(0.2)	0.5	(0.3)	23.5	(13.2)	33.8	(19.0)	39.0	56.0	26.4	(14.5)	38.0	(20.8)
Avg	2		2.8		30.3		43.8		65.6	94.2	28.1		40.4	
n	27		27		25		25		25	25	24		24	
SD	1.5		2.2		9.3		14.1		48.4	69.7	6.1		8.7	
Min	0.3		0.4		15.9		22.9		24.8	35.6	16.9		24.3	
Max	8.0		11.5		54.6		84.8		209.0	301.0	41.4		59.4	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for August, 2009.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	0.0	(0.2)	0.1	(0.3)	20.8	(12.3)	29.9	(17.7)	35.9	51.5	23.1	(13.9)	33.2	(19.9)
2	0.0	(0.1)	-0.1	(0.2)	17.3	(9.7)	24.9	(13.9)	28.4	40.7	20.7	(11.2)	29.7	(16.1)
3	0.1	(0.2)	0.1	(0.2)	14.6	(8.3)	21.0	(11.9)	25.6	36.8	16.3	(8.9)	23.4	(12.8)
4	0.6	(0.3)	0.8	(0.5)	12.5	(6.6)	18.9	(9.7)	21.8	31.3	14.7	(7.6)	21.0	(10.9)
5	0.2	(0.3)	0.2	(0.4)	13.5	(6.9)	19.5	(9.9)	21.3	30.5	12.0	(7.4)	17.3	(10.6)
6	-0.1	(0.2)	-0.1	(0.2)	11.8	(3.6)	17.0	(5.2)	16.7	23.9	12.4	(4.4)	17.8	(6.3)
7	0.2	(0.3)	0.2	(0.4)	11.3	(4.5)	16.3	(6.5)	17.4	25.0	11.2	(4.4)	16.1	(6.3)
8	0.7	(0.4)	1.0	(0.5)	9.9	(6.4)	14.2	(9.2)	18.0	25.8	8.5	(5.7)	12.1	(8.1)
9	0.8	(0.5)	1.1	(0.7)	8.8	(6.2)	12.7	(8.9)	17.4	25.0	9.1	(7.2)	13.1	(10.4)
10	1.2	(0.5)	1.7	(0.7)	8.4	(6.8)	12.0	(9.8)	22.2	31.8	13.6	(10.5)	19.6	(15.1)
11	1.1	(0.9)	1.6	(1.2)	6.8	(4.1)	9.7	(5.9)	12.7	18.3	12.7	(7.9)	18.3	(11.4)
12	-0.2	(0.2)	-0.2	(0.3)	6.8	(4.0)	9.7	(5.8)	12.4	17.9	9.8	(6.0)	14.1	(8.6)
13	0.0	(0.2)	0.0	(0.3)	6.1	(4.1)	8.8	(5.9)	11.7	16.8	7.8	(5.2)	11.2	(7.4)
14	0.0	(0.3)	0.1	(0.5)	7.0	(4.0)	10.0	(5.7)	11.8	16.9	7.4	(4.3)	10.7	(6.2)
15	0.3	(0.3)	0.4	(0.5)	7.2	(4.5)	10.3	(6.5)	15.5	22.3	7.0	(4.3)	10.0	(6.2)
16	0.3	(0.1)	0.4	(0.2)										
17	0.9	(0.2)	1.3	(0.3)										
18	0.8	(0.2)	1.2	(0.3)	8.1	(5.1)	11.6	(7.4)	17.1	24.6	7.2	(4.5)	10.3	(6.4)
19	0.6	(0.2)	0.8	(0.2)	9.3	(5.6)	13.4	(8.0)	19.3	27.8	8.1	(4.6)	11.7	(6.6)
20	0.5	(0.1)	0.7	(0.2)	14.1	(8.1)	20.2	(11.7)	27.1	39.0	11.4	(6.1)	16.4	(8.7)
21	1.3	(0.3)	1.9	(0.5)	16.7	(9.7)	24.0	(14.0)	35.4	50.9	12.9	(6.9)	18.5	(10.0)
22	1.1	(0.5)	1.5	(0.7)	14.9	(4.3)	21.4	(6.2)	26.3	37.8	12.3	(4.0)	17.6	(5.7)
23	1.8	(0.3)	2.5	(0.5)	24.6	(9.2)	35.3	(13.1)	42.8	61.3	22.6	(9.3)	32.5	(13.3)
24	1.5	(0.3)	2.1	(0.4)	36.4	(18.4)	52.3	(26.3)	72.4	104.0	31.9	(15.8)	45.7	(22.6)
25	1.5	(0.4)	2.2	(0.6)	35.8	(19.4)	51.4	(27.8)	71.9	103.0	35.4	(20.6)	50.8	(29.6)
26	1.9	(0.2)	2.8	(0.3)	43.3	(20.3)	62.1	(29.2)	79.0	113.0	38.2	(21.0)	55.1	(30.1)
27	4.0	(1.0)	5.8	(1.4)	38.4	(20.3)	55.4	(29.0)	83.3	119.0	35.9	(17.8)	51.8	(25.4)
28	3.1	(1.1)	4.4	(1.6)	35.1	(22.5)	50.4	(32.2)	82.3	118.0	32.5	(19.4)	46.6	(27.8)
29	2.9	(1.2)	4.1	(1.8)	28.4	(14.9)	40.8	(21.3)	61.8	88.7	28.7	(15.5)	41.2	(22.2)
30	2.4	(0.6)	3.5	(0.8)	22.2	(8.2)	31.9	(11.8)	44.6	64.0	24.8	(10.6)	35.6	(15.2)
31	3.1	(0.3)	4.4	(0.4)	32.0	(15.1)	45.9	(21.7)	72.9	105.0	33.0	(16.6)	47.4	(23.8)
Avg	1.1		1.5		18		25.9		35.3	50.7	18		25.8	
n	31		31		29		29		29	29	29		29	
SD	1.1		1.5		11.1		16		24	34.3	10.1		14.5	
Min	-0.2		-0.2		6.1		8.8		11.7	16.8	7.0		10.0	
Max	4.0		5.8		43.3		62.1		83.3	119.0	38.2		55.1	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for September, 2009.

Day	Ambient				House 10						House 12			
	ppb		μg dsm^{-3}		ppb		μg dsm^{-3}		ppb	μg/dsm	ppb		μg dsm^{-3}	
1	3.5	(0.6)	5.1	(0.8)	32.9	(12.8)	47.3	(18.4)	66.3	95.2	35.5	(15.9)	51.0	(22.7)
2	1.8	(0.2)	2.6	(0.3)	25.1	(4.3)	36.0	(6.1)	37.5	53.7	27.1	(5.9)	38.8	(8.4)
3	1.6	(0.2)	2.3	(0.3)	20.1	(2.5)	28.9	(3.5)	26.3	37.7	21.8	(3.2)	31.3	(4.5)
4	1.3	(0.3)	1.9	(0.4)	20.7	(4.4)	29.7	(6.2)	32.3	46.3	23.0	(6.3)	32.9	(9.0)
5	1.5	(0.4)	2.1	(0.5)	30.8	(9.8)	44.2	(14.0)	53.9	77.3	28.9	(9.4)	41.4	(13.5)
6	1.2	(0.6)	1.7	(0.8)	24.9	(9.4)	35.8	(13.5)	50.6	72.5	28.1	(10.9)	40.2	(15.7)
7	1.2	(0.6)	1.7	(0.9)	23.0	(4.0)	33.0	(5.8)	32.4	46.4	25.9	(6.5)	37.1	(9.3)
8	2.1	(0.9)	2.9	(1.3)	21.9	(4.5)	31.3	(6.4)	32.9	47.1	24.0	(5.3)	34.3	(7.5)
9	1.8	(0.4)	2.6	(0.6)							23.9	(6.3)		
10	2.4	(0.5)	3.4	(0.7)	14.2	(7.0)	21.3	(9.7)	23.7	34.0				
11	3.0	(0.6)	4.3	(0.8)	18.9	(3.0)	27.1	(4.3)	26.1	37.6	19.3	(2.7)	27.7	(4.0)
12	1.8	(0.4)	2.6	(0.5)	17.0	(2.4)	24.4	(3.4)	23.4	33.5	17.6	(3.3)	25.2	(4.8)
13	1.0	(0.1)	1.5	(0.1)	18.2	(7.6)	26.1	(10.9)	31.4	45.0				
14	1.9	(0.9)	2.7	(1.2)	18.5	(5.5)	26.5	(7.8)	36.5	52.5	17.4	(4.6)	24.9	(6.5)
15	0.6	(0.5)	0.9	(0.7)	9.4	(7.5)	13.4	(10.7)	51.9	74.4	9.1	(3.3)	13.0	(4.9)
16	0.3	(0.2)	0.4	(0.3)	2.7	(1.1)	3.9	(1.6)	5.6	8.0	2.8	(1.4)	4.1	(2.0)
17	0.1	(0.3)	0.2	(0.4)	2.2	(1.1)	3.1	(1.6)	8.2	11.7	1.9	(0.7)	2.7	(1.0)
18	0.8	(0.4)	1.2	(0.6)	2.0	(1.5)	2.8	(2.1)	7.5	10.8	2.4	(2.0)	3.4	(2.9)
19	0.9	(0.4)	1.3	(0.6)	1.7	(2.1)	2.5	(3.0)	12.1	17.4	1.1	(0.9)	1.5	(1.2)
20	0.4	(0.7)	0.6	(1.0)	1.0	(0.6)	1.4	(0.8)	2.5	3.6	0.6	(0.5)	0.9	(0.7)
21	1.3	(0.5)	1.8	(0.7)	1.1	(0.7)	1.5	(1.0)	2.9	4.1	1.1	(0.7)	1.5	(1.0)
22	2.9	(1.8)	4.2	(2.6)	1.4	(1.5)	2.0	(2.2)	6.0	8.6	1.2	(1.2)	1.7	(1.8)
23	0.4	(0.6)	0.5	(0.9)	1.1	(1.1)	1.6	(1.6)	5.2	7.4	1.0	(1.1)	1.4	(1.5)
24	-0.1	(0.2)	-0.2	(0.3)	0.6	(0.5)	0.9	(0.7)	2.1	3.0	0.6	(0.5)	0.8	(0.8)
25	0.5	(0.8)	0.8	(1.2)	1.7	(1.5)	2.4	(2.2)	8.2	11.7	1.5	(1.4)	2.2	(2.0)
26	4.5	(0.8)	6.5	(1.1)	2.4	(2.1)	3.5	(3.0)	6.7	9.6	2.5	(2.3)	3.6	(3.2)
27	2.3	(1.2)	3.2	(1.8)	3.8	(3.4)	5.5	(4.9)	12.1	17.3	3.5	(3.2)	5.0	(4.6)
28	0.7	(0.6)	1.0	(0.9)	1.9	(0.9)	2.7	(1.2)	4.0	5.7	1.6	(0.8)	2.2	(1.2)
29	-0.2	(0.2)	-0.3	(0.2)	3.1	(0.6)	4.4	(0.9)	4.6	6.6	3.3	(0.7)	4.8	(1.0)
30	0.4	(0.9)	0.6	(1.3)	4.6	(0.6)	6.5	(0.9)	6.2	8.9	4.9	(0.9)	7.0	(1.3)
Avg	1.4		2		11.3		16.2		21.3	30.6	11.8		16.3	
n	30		30		29		29		29	29	28		27	
SD	1.1		1.6		10.4		14.9		18	25.9	11.4		16.4	
Min	-0.2		-0.3		0.6		0.9		2.1	3.0	0.6		0.8	
Max	4.5		6.5		32.9		47.3		66.3	95.2	35.5		51.0	

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Table E8. Daily means (SD) of H2S concentrations at Site CA1B for October, 2009.

Day	Ambient				House 10						House 12			
	ppb		µg dsm^{-3}		ppb		µg dsm^{-3}		ppb	µg/dsm	ppb		µg dsm^{-3}	
1	4.1	(2.8)	5.8	(4.0)	6.1	(2.6)	8.7	(3.7)	13.1	18.7	6.4	(2.3)	9.2	(3.4)
2	0.9	(0.3)	1.3	(0.4)	6.9	(3.8)	9.9	(5.5)	13.1	18.8	7.9	(4.2)	11.3	(6.0)
3	0.3	(0.5)	0.4	(0.7)	5.5	(1.5)	7.9	(2.2)	9.6	13.8	7.0	(1.7)	10.0	(2.5)
4	1.0	(1.1)	1.4	(1.5)	5.3	(0.9)	7.6	(1.3)	8.1	11.6	6.2	(1.0)	8.8	(1.5)
5	0.5	(0.5)	0.7	(0.7)	6.2	(1.2)	8.9	(1.7)	10.1	14.5	6.3	(0.8)	9.1	(1.2)
6	0.9	(0.7)	1.3	(1.0)	6.9	(3.1)	9.9	(4.4)	15.5	22.2	6.0	(2.6)	8.6	(3.8)
7	0.3	(0.2)	0.4	(0.3)										
8	-0.2	(0.2)	-0.3	(0.3)	6.3	(2.2)	9.0	(3.2)	11.2	16.1	4.6	(1.8)	6.6	(2.5)
9	0.4	(0.5)	0.6	(0.8)	6.6	(2.3)	9.4	(3.3)	9.4	13.5	5.3	(1.7)	7.6	(2.4)
10	0.8	(0.4)	1.1	(0.5)	7.9	(2.8)	11.3	(4.0)	11.6	16.7	6.3	(2.2)	9.0	(3.2)
11	0.1	(0.3)	0.1	(0.5)	9.5	(2.1)	13.6	(3.0)	12.5	18.0	8.3	(1.7)	12.0	(2.4)
12	0.3	(0.1)	0.4	(0.2)	12.5	(2.0)	18.0	(2.9)	16.3	23.4	12.1	(1.2)	17.3	(1.8)
13					15.9	(2.4)	22.9	(3.5)	20.8	29.9	16.9	(1.7)	24.3	(2.4)
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30														
31														
Avg	0.8		1.1		8		11.4		12.6	18.1	7.8		11.1	
n	12		12		12		12		12	12	12		12	
SD	1.1		1.5		3.1		4.4		3.4	4.9	3.3		4.8	
Min	-0.2		-0.3		5.3		7.6		8.1	11.6	4.6		6.6	
Max	4.1		5.8		15.9		22.9		20.8	29.9	16.9		24.3	

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Table E9. H2S emissions

Table E9. Daily means (SD) of H2S emissions at Site CA1B for November, 2007.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		μg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		μg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1																
2																
3																
4																
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12																
13																
14																
15	0.22	(0.87)	0.14	(0.57)					0.12	(0.96)	0.08	(0.63)				
16	0.47	(0.72)	0.31	(0.47)	22.40	(34.20)	168.00	(257.00)	0.37	(0.65)	0.24	(0.43)	17.20	(30.60)	128.00	(227.00)
17	0.66	(0.96)	0.43	(0.63)	31.50	(45.60)	269.00	(391.00)	0.56	(0.93)	0.37	(0.61)	26.40	(43.80)	225.00	(377.00)
18	0.94	(1.57)	0.61	(1.03)	44.60	(74.70)	401.00	(671.00)	1.04	(1.89)	0.68	(1.24)	49.20	(89.50)	443.00	(804.00)
19	1.81	(2.71)	1.19	(1.78)	86.30	(129.00)	741.00	(1100.00)	2.20	(3.06)	1.44	(2.01)	104.00	(145.00)	895.00	(1240.00)
20									2.49	(3.79)	1.64	(2.49)	118.00	(180.00)	898.00	(1360.00)
21									2.97	(4.30)	1.95	(2.82)	141.00	(204.00)	902.00	(1310.00)
22																
23																
24	4.60	(6.18)	3.01	(4.05)	220.00	(296.00)	737.00	(981.00)	4.99	(6.91)	3.27	(4.53)	238.00	(329.00)	804.00	(1100.00)
25	8.60	(10.90)	5.64	(7.12)	412.00	(520.00)	1140.00	(1420.00)	8.20	(11.60)	5.38	(7.58)	391.00	(551.00)	1090.00	(1520.00)
26	12.90	(16.10)	8.47	(10.50)	620.00	(771.00)	1440.00	(1780.00)	11.20	(14.20)	7.37	(9.30)	536.00	(676.00)	1250.00	(1580.00)
27	14.20	(16.80)	9.33	(11.00)	683.00	(809.00)	1340.00	(1600.00)	11.90	(13.70)	7.80	(9.01)	567.00	(655.00)	1120.00	(1310.00)
28	12.10	(14.40)	7.94	(9.44)	582.00	(691.00)	973.00	(1160.00)	11.90	(12.80)	7.83	(8.41)	570.00	(612.00)	958.00	(1020.00)
29	11.60	(12.80)	7.61	(8.41)	557.00	(616.00)	804.00	(891.00)	12.10	(12.70)	7.91	(8.32)	576.00	(606.00)	836.00	(879.00)
30	15.20	(16.50)	9.95	(10.80)	730.00	(794.00)	916.00	(996.00)	15.40	(16.60)	10.10	(10.90)	737.00	(795.00)	930.00	(1000.00)
Avg	6.9		4.6		363.0		812.0		6.1		4.0		313.0		807.0	
n	12		12		11		11		14		14		13		13	
SD	5.8		3.8		272.0		394.0		5.3		3.4		247.0		325.0	
Min	0.2		0.1		22.4		168.0		0.1		0.1		17.2		128.0	
Max	15.2		10.0		730.0		1440.0		15.4		10.1		737.0		1250.0	

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for December, 2007.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	16.80 (16.90)	11.00 (11.10)	808.00 (813.00)	890.00 (890.00)	17.30 (17.50)	11.40 (11.50)	829.00 (836.00)	917.00 (918.00)
2	23.60 (21.10)	15.50 (13.80)	1130.00 (1010.00)	1110.00 (986.00)	24.60 (22.20)	16.20 (14.60)	1180.00 (1060.00)	1160.00 (1040.00)
3	33.00 (24.80)	21.70 (16.20)	1590.00 (1190.00)	1390.00 (1040.00)	34.30 (26.20)	22.50 (17.20)	1640.00 (1250.00)	1440.00 (1090.00)
4	45.30 (31.90)	29.70 (20.90)	2180.00 (1540.00)	1720.00 (1200.00)	45.40 (35.20)	29.80 (23.10)	2170.00 (1690.00)	1720.00 (1330.00)
5	68.40 (55.10)	44.80 (36.10)	3290.00 (2650.00)	2350.00 (1870.00)	65.10 (53.60)	42.70 (35.20)	3120.00 (2570.00)	2240.00 (1820.00)
6	78.90 (71.90)	51.70 (47.10)	3800.00 (3470.00)	2480.00 (2250.00)	74.40 (68.00)	48.80 (44.60)	3560.00 (3260.00)	2330.00 (2130.00)
7	93.00 (72.80)	61.00 (47.70)	4480.00 (3510.00)	2680.00 (2100.00)	84.30 (65.20)	55.30 (42.80)	4040.00 (3120.00)	2420.00 (1870.00)
8	83.70 (60.90)	54.90 (40.00)	4040.00 (2940.00)	2220.00 (1630.00)	79.90 (59.70)	52.40 (39.20)	3830.00 (2860.00)	2110.00 (1590.00)
9	70.50 (54.00)	46.20 (35.40)	3400.00 (2610.00)	1730.00 (1320.00)	68.80 (52.30)	45.10 (34.30)	3300.00 (2500.00)	1680.00 (1280.00)
10	70.40 (48.50)	46.10 (31.80)	3400.00 (2340.00)	1620.00 (1130.00)	65.80 (45.60)	43.10 (29.90)	3150.00 (2190.00)	1510.00 (1060.00)
11								
12	77.40 (61.20)	50.80 (40.20)	3740.00 (2960.00)	1540.00 (1210.00)	78.40 (61.90)	51.40 (40.60)	3760.00 (2970.00)	1550.00 (1220.00)
13	76.90 (53.20)	50.50 (34.90)	3720.00 (2570.00)	1440.00 (999.00)	77.10 (55.00)	50.50 (36.10)	3690.00 (2640.00)	1430.00 (1040.00)
14	78.20 (48.00)	51.30 (31.50)	3780.00 (2320.00)	1370.00 (837.00)	59.60 (36.40)	39.10 (23.90)	2860.00 (1750.00)	1040.00 (636.00)
15	83.10 (47.80)	54.50 (31.40)	4010.00 (2310.00)	1380.00 (791.00)	59.30 (34.10)	38.90 (22.30)	2850.00 (1640.00)	979.00 (561.00)
16	84.00 (42.00)	55.10 (27.50)	4060.00 (2030.00)	1320.00 (658.00)	56.70 (28.80)	37.20 (18.90)	2720.00 (1380.00)	888.00 (451.00)
17	90.10 (47.60)	59.10 (31.20)	4360.00 (2300.00)	1350.00 (709.00)	63.00 (33.50)	41.30 (21.90)	3030.00 (1610.00)	937.00 (496.00)
18	91.70 (53.50)	60.10 (35.10)	4430.00 (2590.00)	1300.00 (761.00)	86.00 (53.10)	56.40 (34.80)	4130.00 (2550.00)	1220.00 (745.00)
19	91.00 (46.50)	59.70 (30.50)	4400.00 (2250.00)	1240.00 (632.00)	94.20 (49.00)	61.80 (32.10)	4530.00 (2350.00)	1270.00 (664.00)
20	98.80 (45.60)	64.80 (29.90)	4780.00 (2210.00)	1280.00 (594.00)	91.70 (43.90)	60.10 (28.80)	4410.00 (2110.00)	1190.00 (570.00)
21	83.90 (42.10)	55.00 (27.60)	4060.00 (2040.00)	1040.00 (526.00)	78.60 (42.80)	51.50 (28.10)	3780.00 (2060.00)	973.00 (529.00)
22	82.40 (44.70)	54.10 (29.30)	4000.00 (2170.00)	985.00 (531.00)	84.10 (48.40)	55.20 (31.70)	4050.00 (2330.00)	999.00 (572.00)
23								
24	106.00 (47.60)	69.60 (31.20)	5150.00 (2310.00)	1180.00 (531.00)	97.70 (48.40)	64.10 (31.80)	4710.00 (2330.00)	1080.00 (539.00)
25	103.00 (41.40)	67.30 (27.20)	4980.00 (2010.00)	1100.00 (443.00)	94.70 (47.10)	62.10 (30.90)	4560.00 (2270.00)	1010.00 (498.00)
26	96.80 (34.00)	63.50 (22.30)	4700.00 (1650.00)	1010.00 (356.00)	96.10 (40.30)	63.00 (26.50)	4630.00 (1940.00)	993.00 (420.00)
27	86.10 (35.20)	56.40 (23.10)	4180.00 (1710.00)	865.00 (351.00)	84.70 (36.90)	55.50 (24.20)	4080.00 (1780.00)	846.00 (366.00)
28	92.00 (30.40)	60.30 (19.90)	4470.00 (1480.00)	900.00 (299.00)	105.00 (34.70)	68.90 (22.80)	5060.00 (1680.00)	1020.00 (340.00)
29	99.30 (26.70)	65.10 (17.50)	4830.00 (1300.00)	944.00 (255.00)	112.00 (26.40)	73.10 (17.30)	5380.00 (1280.00)	1050.00 (250.00)
30	73.10 (15.10)	47.90 (9.93)	3560.00 (737.00)	678.00 (144.00)	80.50 (23.60)	52.80 (15.50)	3890.00 (1140.00)	742.00 (222.00)
31	59.00 (14.10)	38.70 (9.23)	2870.00 (687.00)	534.00 (127.00)	42.60 (44.00)	27.90 (28.80)		
Avg	77.1	50.6	3730.0	1370.0	72.5	47.5	3530.0	1310.0
n	29	29	29	29	29	29	28	28
SD	22.1	14.5	1070.0	513.0	22.8	15.0	1090.0	465.0
Min	16.8	11.0	808.0	534.0	17.3	11.4	829.0	742.0
Max	106.0	69.6	5150.0	2680.0	112.0	73.1	5380.0	2420.0

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for January, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	77.10 (45.60)	50.60 (29.90)	3640.00 (1980.00)	660.00 (354.00)	19.00 (14.60)	12.40 (9.54)		
2	41.70 (53.20)	27.40 (34.90)			12.90 (18.90)	8.44 (12.40)		
3	33.40 (33.40)	21.90 (21.90)			9.74 (41.30)	6.38 (27.10)		
4	13.10 (24.40)	8.60 (16.00)			9.70 (18.30)	6.36 (12.00)		
5	9.69 (19.70)	6.35 (12.90)			6.07 (12.40)	3.98 (8.13)		
6	8.32 (14.50)	5.45 (9.51)	911.00 (1590.00)	6570.00 (11400.00)	5.60 (9.66)	3.67 (6.33)		
7	5.50 (8.25)	3.60 (5.41)	465.00 (804.00)	3840.00 (6530.00)	4.17 (6.11)	2.73 (4.01)		
8	3.49 (4.52)	2.29 (2.96)	166.00 (215.00)	1490.00 (1920.00)	2.97 (3.83)	1.95 (2.51)	140.00 (180.00)	993.00 (1270.00)
9	1.75 (2.59)	1.15 (1.70)	83.20 (123.00)	727.00 (1080.00)	1.60 (2.33)	1.05 (1.53)	75.70 (110.00)	624.00 (905.00)
10	1.84 (2.64)	1.21 (1.73)	87.80 (126.00)	683.00 (984.00)	1.62 (2.34)	1.06 (1.54)	76.60 (111.00)	685.00 (993.00)
11	1.54 (2.05)	1.01 (1.35)	73.70 (98.10)	481.00 (640.00)	1.34 (1.82)	0.88 (1.19)	63.30 (86.30)	554.00 (752.00)
12	2.01 (3.32)	1.32 (2.18)	96.30 (159.00)	514.00 (830.00)	1.51 (2.35)	0.99 (1.54)	71.50 (112.00)	565.00 (875.00)
13	2.26 (4.03)	1.48 (2.64)	108.00 (193.00)	465.00 (824.00)	1.63 (3.02)	1.07 (1.98)	77.40 (143.00)	512.00 (945.00)
14	0.67 (3.01)	0.44 (1.98)	32.00 (144.00)	112.00 (534.00)	0.54 (2.96)	0.35 (1.94)	25.70 (141.00)	136.00 (801.00)
15	-0.15 (0.52)	-0.10 (0.34)	-7.14 (25.00)	-21.10 (71.90)	-0.05 (0.40)	-0.03 (0.27)	-2.35 (19.20)	-10.50 (83.40)
16	1.12 (2.68)	0.73 (1.76)	53.50 (129.00)	122.00 (295.00)	0.48 (1.56)	0.32 (1.02)	22.90 (74.30)	76.60 (252.00)
17	4.60 (8.46)	3.02 (5.55)	221.00 (406.00)	433.00 (790.00)	2.46 (5.52)	1.61 (3.62)	117.00 (263.00)	330.00 (736.00)
18	4.80 (8.69)	3.14 (5.70)	230.00 (417.00)	384.00 (696.00)	3.30 (5.59)	2.17 (3.67)	157.00 (266.00)	375.00 (637.00)
19	8.03 (11.70)	5.26 (7.65)	386.00 (561.00)	559.00 (800.00)	5.83 (7.26)	3.82 (4.76)	278.00 (346.00)	561.00 (686.00)
20	7.66 (10.70)	5.02 (6.99)	368.00 (513.00)	473.00 (660.00)	6.48 (8.42)	4.25 (5.52)	309.00 (402.00)	537.00 (695.00)
21	8.24 (12.00)	5.40 (7.89)	396.00 (579.00)	443.00 (639.00)	6.78 (9.56)	4.44 (6.27)	324.00 (457.00)	481.00 (673.00)
22	14.00 (17.90)	9.18 (11.70)	674.00 (860.00)	675.00 (866.00)	10.90 (14.10)	7.13 (9.25)	519.00 (674.00)	675.00 (878.00)
23	15.00 (19.20)	9.83 (12.60)	722.00 (924.00)	644.00 (825.00)	14.40 (18.00)	9.47 (11.80)	691.00 (859.00)	788.00 (978.00)
24	13.90 (18.50)	9.14 (12.10)	671.00 (891.00)	541.00 (724.00)	15.30 (19.40)	10.00 (12.70)	732.00 (931.00)	740.00 (943.00)
25	19.80 (20.90)	13.00 (13.70)	955.00 (1000.00)	694.00 (733.00)	20.60 (21.60)	13.50 (14.20)	986.00 (1040.00)	890.00 (943.00)
26	27.50 (25.80)	18.00 (16.90)	1330.00 (1240.00)	876.00 (817.00)	25.50 (23.30)	16.70 (15.30)	1220.00 (1120.00)	990.00 (904.00)
27	26.30 (24.90)	17.30 (16.30)	1270.00 (1200.00)	771.00 (735.00)	24.90 (22.80)	16.30 (15.00)	1190.00 (1090.00)	876.00 (809.00)
28	33.70 (37.10)	22.10 (24.30)	1630.00 (1790.00)	902.00 (981.00)	34.30 (40.40)	22.50 (26.50)	1650.00 (1940.00)	1090.00 (1270.00)
29	32.00 (38.50)	21.00 (25.20)	1540.00 (1860.00)	795.00 (959.00)	34.30 (43.30)	22.50 (28.40)	1650.00 (2080.00)	1010.00 (1270.00)
30	36.20 (39.40)	23.70 (25.80)	1750.00 (1900.00)	835.00 (907.00)	37.20 (41.90)	24.40 (27.50)	1790.00 (2010.00)	1000.00 (1130.00)
31	42.00 (47.00)	27.60 (30.80)	2030.00 (2270.00)	902.00 (1010.00)	44.00 (48.80)	28.90 (32.00)	2120.00 (2350.00)	1100.00 (1210.00)
Avg	16.0	10.5	736.0	947.0	11.8	7.7	595.0	649.0
n	31	31	27	27	31	31	24	24
SD	17.2	11.3	821.0	1290.0	12.2	8.0	650.0	310.0
Min	-0.1	-0.1	-7.1	-21.1	0.0	0.0	-2.4	-10.5
Max	77.1	50.6	3640.0	6570.0	44.0	28.9	2120.0	1100.0

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for February, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1								
2								
3								
4								
5	72.70 (52.10)	47.70 (34.20)	3530.00 (2530.00)	1150.00 (823.00)	67.00 (47.40)	43.90 (31.10)	3230.00 (2290.00)	1190.00 (839.00)
6	85.90 (51.30)	56.30 (33.60)	4170.00 (2490.00)	1300.00 (774.00)	84.50 (54.50)	55.40 (35.70)	4080.00 (2630.00)	1420.00 (910.00)
7	94.80 (52.90)	62.20 (34.70)	4600.00 (2570.00)	1360.00 (760.00)	92.20 (58.60)	60.50 (38.40)	4460.00 (2830.00)	1470.00 (933.00)
8	90.20 (48.60)	59.20 (31.90)	4380.00 (2360.00)	1240.00 (669.00)	88.20 (51.00)	57.80 (33.50)	4260.00 (2470.00)	1330.00 (773.00)
9	114.00 (56.80)	75.10 (37.30)	5560.00 (2760.00)	1500.00 (741.00)	108.00 (56.40)	70.60 (37.00)	5210.00 (2730.00)	1550.00 (804.00)
10	125.00 (54.60)	82.20 (35.80)	6090.00 (2650.00)	1580.00 (687.00)	126.00 (58.20)	82.80 (38.20)	6110.00 (2820.00)	1730.00 (793.00)
11	110.00 (47.70)	72.20 (31.30)	5360.00 (2320.00)	1330.00 (579.00)	114.00 (48.90)	74.80 (32.10)	5520.00 (2370.00)	1500.00 (652.00)
12	114.00 (40.80)	74.60 (26.70)	5540.00 (1980.00)	1320.00 (475.00)	109.00 (34.10)	71.40 (22.40)	5280.00 (1650.00)	1370.00 (430.00)
13	117.00 (30.90)	76.40 (20.20)	5670.00 (1500.00)	1310.00 (348.00)	106.00 (35.50)	69.70 (23.30)	5150.00 (1720.00)	1290.00 (431.00)
14	80.00 (32.90)	52.50 (21.60)	3900.00 (1600.00)	868.00 (362.00)	71.70 (35.20)	47.00 (23.10)	3480.00 (1710.00)	835.00 (415.00)
15	93.20 (31.60)	61.10 (20.70)	4540.00 (1540.00)	975.00 (327.00)	87.50 (36.90)	57.40 (24.20)	4250.00 (1790.00)	980.00 (409.00)
16	118.00 (26.80)	77.10 (17.60)	5740.00 (1310.00)	1190.00 (271.00)	118.00 (34.10)	77.70 (22.40)	5750.00 (1660.00)	1280.00 (367.00)
17	126.00 (27.60)	82.90 (18.10)	6170.00 (1350.00)	1250.00 (272.00)	134.00 (29.50)	87.90 (19.30)	6510.00 (1430.00)	1400.00 (311.00)
18	123.00 (25.00)	80.50 (16.40)	6000.00 (1220.00)	1180.00 (241.00)	116.00 (25.80)	76.20 (16.90)	5650.00 (1260.00)	1180.00 (266.00)
19	104.00 (21.90)	68.20 (14.40)	5090.00 (1070.00)	975.00 (209.00)	103.00 (21.50)	67.70 (14.10)	5030.00 (1050.00)	1020.00 (215.00)
20	94.50 (7.47)	62.00 (4.90)	4640.00 (367.00)	866.00 (69.70)	115.00 (10.50)	75.10 (6.88)	5590.00 (512.00)	1100.00 (97.30)
21	46.60 (44.70)	30.60 (29.30)	2310.00 (2240.00)		91.30 (30.40)	59.90 (19.90)	4570.00 (1270.00)	877.00 (249.00)
22	98.60 (64.00)	64.60 (42.00)			48.00 (53.50)	31.50 (35.10)		
23	44.80 (9.67)	29.40 (6.34)			44.80 (26.00)	29.40 (17.00)		
24	40.10 (5.45)	26.30 (3.57)			35.00 (3.75)	23.00 (2.46)		
25	32.40 (18.70)	21.30 (12.30)			32.60 (9.95)	21.40 (6.52)		
26	29.30 (45.00)	19.20 (29.50)			24.10 (29.40)	15.80 (19.30)		
27	33.40 (59.60)	21.90 (39.10)			23.90 (41.80)	15.70 (27.40)		
28	33.50 (50.70)	22.00 (33.20)			23.60 (34.40)	15.50 (22.60)		
29	24.70 (31.80)	16.20 (20.90)	1160.00 (1500.00)	8440.00 (10600.00)	18.30 (23.20)	12.00 (15.20)	861.00 (1090.00)	6240.00 (7900.00)
Avg	81.8	53.7	4690.0	1640.0	79.3	52.0	4720.0	1540.0
n	25	25	18	17	25	25	18	18
SD	34.5	22.6	1300.0	1710.0	36.6	24.0	1270.0	1160.0
Min	24.7	16.2	1160.0	866.0	18.3	12.0	861.0	835.0
Max	126.0	82.9	6170.0	8440.0	134.0	87.9	6510.0	6240.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for March, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	16.10 (20.20)	10.50 (13.20)	756.00 (951.00)	6360.00 (7970.00)	9.56 (19.20)	6.27 (12.60)	450.00 (903.00)	3790.00 (7560.00)
2	13.70 (18.80)	9.00 (12.30)	647.00 (885.00)	5820.00 (7960.00)	9.44 (14.50)	6.19 (9.48)	445.00 (682.00)	4000.00 (6130.00)
3	16.70 (17.70)	10.90 (11.60)	788.00 (836.00)	6830.00 (7280.00)	12.60 (13.20)	8.29 (8.68)	597.00 (626.00)	5180.00 (5460.00)
4	12.60 (14.50)	8.23 (9.52)	594.00 (687.00)	4550.00 (5220.00)	8.93 (9.92)	5.85 (6.50)	422.00 (469.00)	3240.00 (3580.00)
5	11.70 (14.10)	7.64 (9.25)	552.00 (668.00)	3550.00 (4310.00)	8.69 (10.20)	5.70 (6.72)	412.00 (485.00)	2650.00 (3130.00)
6	10.30 (11.70)	6.74 (7.68)	487.00 (555.00)	2550.00 (2880.00)	8.14 (8.75)	5.33 (5.74)	385.00 (414.00)	2020.00 (2160.00)
7	11.20 (12.50)	7.35 (8.19)	532.00 (592.00)	2250.00 (2460.00)	8.11 (9.20)	5.32 (6.03)	385.00 (436.00)	1630.00 (1820.00)
8	12.60 (14.50)	8.26 (9.51)	598.00 (688.00)	2060.00 (2360.00)	8.07 (10.20)	5.29 (6.72)	383.00 (486.00)	1330.00 (1690.00)
9	17.10 (18.40)	11.20 (12.00)	811.00 (871.00)	2300.00 (2470.00)	10.10 (12.50)	6.61 (8.20)	479.00 (594.00)	1360.00 (1710.00)
10	22.80 (21.40)	14.90 (14.10)	1080.00 (1020.00)	2560.00 (2430.00)	11.80 (12.00)	7.75 (7.88)	561.00 (571.00)	1330.00 (1370.00)
11	32.60 (34.70)	21.40 (22.80)	1550.00 (1650.00)	3080.00 (3260.00)	14.20 (15.30)	9.31 (10.00)	676.00 (727.00)	1350.00 (1450.00)
12	41.60 (45.00)	27.30 (29.50)	1980.00 (2140.00)	3360.00 (3640.00)	16.10 (17.80)	10.60 (11.60)	768.00 (845.00)	1300.00 (1440.00)
13	46.20 (44.60)	30.30 (29.20)	2200.00 (2120.00)	3230.00 (3170.00)	21.50 (21.00)	14.10 (13.80)	1020.00 (1000.00)	1500.00 (1470.00)
14	45.70 (43.50)	29.90 (28.60)	2170.00 (2070.00)	2770.00 (2680.00)	24.60 (24.90)	16.10 (16.30)	1170.00 (1190.00)	1500.00 (1540.00)
15	49.30 (45.80)	32.30 (30.10)	2350.00 (2180.00)	2630.00 (2460.00)	24.20 (24.30)	15.90 (15.90)	1160.00 (1160.00)	1300.00 (1300.00)
16	43.50 (42.20)	28.50 (27.70)	2070.00 (2010.00)	2060.00 (2020.00)	24.20 (23.10)	15.90 (15.10)	1160.00 (1100.00)	1150.00 (1110.00)
17	47.30 (36.70)	31.00 (24.10)	2250.00 (1750.00)	2000.00 (1570.00)	25.90 (20.50)	17.00 (13.50)	1240.00 (980.00)	1100.00 (880.00)
18	55.00 (40.40)	36.10 (26.50)	2620.00 (1930.00)	2090.00 (1540.00)	30.00 (21.80)	19.60 (14.30)	1430.00 (1040.00)	1140.00 (831.00)
19	83.30 (74.20)	54.60 (48.70)	3980.00 (3540.00)	2870.00 (2540.00)	47.40 (39.30)	31.10 (25.80)	2270.00 (1880.00)	1630.00 (1350.00)
20	97.20 (109.00)	63.70 (71.70)	4640.00 (5220.00)	3060.00 (3440.00)	66.50 (61.10)	43.60 (40.10)	3190.00 (2930.00)	2100.00 (1930.00)
21	89.90 (102.00)	59.00 (66.60)	4300.00 (4860.00)	2600.00 (2950.00)	73.60 (65.90)	48.30 (43.20)	3530.00 (3160.00)	2130.00 (1920.00)
22	82.60 (85.70)	54.20 (56.20)	3960.00 (4100.00)	2200.00 (2290.00)	81.70 (67.50)	53.60 (44.30)	3930.00 (3240.00)	2180.00 (1810.00)
23	93.10 (88.00)	61.00 (57.70)	4460.00 (4220.00)	2290.00 (2190.00)	87.90 (75.10)	57.60 (49.20)	4230.00 (3610.00)	2170.00 (1870.00)
24								
25	121.00 (97.40)	79.20 (63.90)	5800.00 (4680.00)	2580.00 (2090.00)	109.00 (86.40)	71.20 (56.70)	5240.00 (4170.00)	2330.00 (1870.00)
26	123.00 (95.50)	80.70 (62.60)	5910.00 (4590.00)	2450.00 (1910.00)	113.00 (84.20)	74.10 (55.20)	5450.00 (4070.00)	2260.00 (1690.00)
27								
28	113.00 (74.30)	74.10 (48.70)	5440.00 (3570.00)	1990.00 (1320.00)	123.00 (74.10)	80.70 (48.60)	5950.00 (3580.00)	2180.00 (1320.00)
29	135.00 (66.20)	88.40 (43.40)	6490.00 (3190.00)	2240.00 (1110.00)	144.00 (70.50)	94.60 (46.20)	6980.00 (3410.00)	2410.00 (1180.00)
30	121.00 (62.60)	79.50 (41.10)	5850.00 (3020.00)	1910.00 (997.00)	135.00 (69.10)	88.80 (45.30)	6560.00 (3350.00)	2150.00 (1100.00)
31	117.00 (64.30)	76.60 (42.10)	5640.00 (3100.00)	1750.00 (961.00)	126.00 (73.00)	82.80 (47.80)	6120.00 (3540.00)	1900.00 (1100.00)
Avg	58.0	38.0	2780.0	2970.0	47.7	31.3	2300.0	2080.0
n	29	29	29	29	29	29	29	29
SD	41.6	27.3	2010.0	1290.0	45.7	29.9	2210.0	935.0
Min	10.3	6.7	487.0	1750.0	8.1	5.3	383.0	1100.0
Max	135.0	88.4	6490.0	6830.0	144.0	94.6	6980.0	5180.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for April, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	118.00 (61.40)	77.30 (40.30)	5690.00 (2970.00)	1680.00 (886.00)	125.00 (70.90)	81.70 (46.50)	6040.00 (3440.00)	1790.00 (1030.00)
2	128.00 (46.60)	83.80 (30.50)	6180.00 (2250.00)	1740.00 (640.00)	131.00 (56.00)	86.20 (36.70)	6380.00 (2720.00)	1800.00 (775.00)
3	155.00 (36.50)	102.00 (23.90)	7500.00 (1760.00)	2020.00 (476.00)	144.00 (43.60)	94.70 (28.60)	7010.00 (2120.00)	1890.00 (573.00)
4	154.00 (34.10)	101.00 (22.40)	7460.00 (1650.00)	1930.00 (439.00)	153.00 (45.90)	100.00 (30.10)	7410.00 (2230.00)	1920.00 (589.00)
5								
6								
7								
8								
9								
10								
11								
12	150.00 (21.80)	98.20 (14.30)	7300.00 (1060.00)	1430.00 (206.00)	126.00 (12.40)	82.40 (8.11)	6140.00 (605.00)	1200.00 (118.00)
13	124.00 (19.80)	81.10 (13.00)	6030.00 (966.00)	1150.00 (189.00)	99.60 (22.10)	65.30 (14.50)	4870.00 (1080.00)	931.00 (211.00)
14	99.80 (13.70)	65.40 (8.99)	4860.00 (667.00)	905.00 (125.00)	75.80 (12.20)	49.70 (7.97)	3710.00 (594.00)	690.00 (112.00)
15	40.50 (39.30)	26.60 (25.70)			22.20 (25.30)	14.60 (16.60)		
16	9.63 (19.40)	6.32 (12.70)			11.10 (23.50)	7.30 (15.40)		
17	5.98 (7.71)	3.92 (5.05)			4.27 (9.06)	2.80 (5.94)		
18	2.48 (5.50)	1.62 (3.61)			1.16 (1.73)	0.76 (1.13)		
19	0.27 (0.41)	0.18 (0.27)			0.40 (0.50)	0.26 (0.33)		
20	0.62 (0.88)	0.41 (0.58)			0.59 (0.99)	0.38 (0.65)		
21	0.28 (0.42)	0.18 (0.27)			0.29 (0.32)	0.19 (0.21)		
22	0.21 (0.37)	0.14 (0.24)			0.25 (0.44)	0.17 (0.29)	9.77 (18.50)	62.00 (117.00)
23	0.21 (0.41)	0.14 (0.27)	9.75 (19.20)	71.20 (136.00)	0.24 (0.47)	0.16 (0.31)	11.30 (22.30)	84.40 (162.00)
24	0.34 (0.45)	0.22 (0.29)	15.90 (21.00)	135.00 (180.00)	0.35 (0.51)	0.23 (0.33)	16.40 (23.80)	143.00 (209.00)
25	0.82 (1.17)	0.53 (0.77)	38.30 (55.10)	344.00 (496.00)	0.93 (1.26)	0.61 (0.83)	43.60 (59.40)	391.00 (533.00)
26	1.23 (1.50)	0.81 (0.98)	58.00 (70.50)	503.00 (616.00)	0.96 (1.22)	0.63 (0.80)	45.00 (57.60)	385.00 (500.00)
27	1.68 (1.61)	1.10 (1.06)	78.90 (75.80)	609.00 (597.00)	1.20 (1.22)	0.79 (0.80)	56.40 (57.40)	426.00 (443.00)
28	1.77 (1.64)	1.16 (1.08)	83.50 (77.40)	538.00 (507.00)	1.30 (1.16)	0.85 (0.76)	61.40 (54.80)	382.00 (343.00)
29	1.68 (2.05)	1.10 (1.34)	79.30 (96.70)	417.00 (513.00)	1.21 (1.42)	0.79 (0.93)	57.00 (67.00)	290.00 (342.00)
30	1.82 (2.25)	1.20 (1.48)	86.20 (106.00)	366.00 (452.00)	1.15 (1.46)	0.75 (0.96)	54.30 (69.00)	223.00 (284.00)
Avg	43.4	28.4	3030.0	923.0	39.2	25.7	2620.0	788.0
n	23	23	15	15	23	23	16	16
SD	60.5	39.7	3240.0	655.0	56.6	37.1	3030.0	677.0
Min	0.2	0.1	9.8	71.2	0.2	0.2	9.8	62.0
Max	155.0	102.0	7500.0	2020.0	153.0	100.0	7410.0	1920.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for May, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	2.30	(2.92)	1.51	(1.92)	109.00	(138.00)	375.00	(474.00)	1.65	(2.10)	1.08	(1.38)	78.00	(99.20)	260.00	(327.00)
2	3.39	(5.38)	2.23	(3.53)	161.00	(254.00)	462.00	(747.00)	2.26	(3.63)	1.48	(2.38)	107.00	(172.00)	298.00	(491.00)
3	4.44	(5.41)	2.91	(3.55)	210.00	(256.00)	494.00	(607.00)	2.49	(2.96)	1.63	(1.94)	118.00	(140.00)	269.00	(326.00)
4	6.01	(6.20)	3.94	(4.07)	285.00	(294.00)	566.00	(590.00)	2.94	(3.14)	1.93	(2.06)	139.00	(149.00)	268.00	(285.00)
5	6.64	(6.13)	4.36	(4.02)	315.00	(290.00)	535.00	(502.00)	4.54	(4.40)	2.97	(2.88)	215.00	(208.00)	354.00	(345.00)
6	7.09	(6.38)	4.65	(4.18)	336.00	(302.00)	490.00	(442.00)	5.93	(5.62)	3.89	(3.68)	281.00	(266.00)	399.00	(378.00)
7	7.96	(8.12)	5.22	(5.32)	377.00	(385.00)	480.00	(493.00)	6.94	(7.16)	4.55	(4.70)	329.00	(340.00)	409.00	(425.00)
8	10.10	(7.10)	6.61	(4.66)	478.00	(337.00)	536.00	(384.00)	8.67	(6.20)	5.69	(4.07)	411.00	(294.00)	452.00	(330.00)
9	11.30	(8.29)	7.42	(5.44)	537.00	(393.00)	532.00	(391.00)	9.44	(6.81)	6.19	(4.47)	448.00	(323.00)	435.00	(314.00)
10	13.50	(8.53)	8.87	(5.59)	642.00	(405.00)	569.00	(363.00)	10.80	(6.99)	7.11	(4.58)	515.00	(332.00)	448.00	(291.00)
11	15.20	(10.60)	9.95	(6.96)	721.00	(504.00)	575.00	(404.00)	12.50	(8.59)	8.18	(5.63)	592.00	(408.00)	464.00	(320.00)
12	18.30	(12.30)	12.00	(8.09)	872.00	(587.00)	629.00	(426.00)	15.40	(10.80)	10.10	(7.06)	730.00	(512.00)	518.00	(364.00)
13	19.00	(13.70)	12.40	(8.95)	904.00	(650.00)	595.00	(431.00)	14.60	(10.90)	9.58	(7.13)	695.00	(517.00)	451.00	(338.00)
14	22.40	(14.70)	14.70	(9.63)	1070.00	(700.00)	643.00	(427.00)	19.70	(14.50)	12.90	(9.48)	937.00	(688.00)	556.00	(408.00)
15																
16																
17																
18																
19																
20	81.20	(38.40)	53.30	(25.20)	3880.00	(1840.00)	1510.00	(724.00)	56.00	(26.20)	36.70	(17.20)	2670.00	(1250.00)	1030.00	(488.00)
21	76.40	(35.70)	50.10	(23.40)	3660.00	(1710.00)	1340.00	(633.00)	62.90	(25.00)	41.20	(16.40)	3000.00	(1190.00)	1090.00	(435.00)
22	79.90	(30.50)	52.40	(20.00)	3830.00	(1460.00)	1320.00	(510.00)	56.30	(20.40)	36.90	(13.40)	2690.00	(974.00)	922.00	(338.00)
23	91.90	(33.10)	60.30	(21.70)	4400.00	(1580.00)	1440.00	(516.00)	59.80	(20.20)	39.20	(13.30)	2860.00	(968.00)	926.00	(310.00)
24	110.00	(36.70)	72.20	(24.10)	5280.00	(1760.00)	1640.00	(545.00)	87.50	(31.90)	57.40	(20.90)	4190.00	(1530.00)	1290.00	(460.00)
25	134.00	(37.60)	88.10	(24.70)	6450.00	(1810.00)	1900.00	(526.00)	128.00	(38.50)	83.90	(25.30)	6130.00	(1850.00)	1790.00	(533.00)
26	131.00	(40.80)	85.70	(26.70)	6270.00	(1960.00)	1770.00	(562.00)	133.00	(43.00)	87.50	(28.20)	6400.00	(2060.00)	1790.00	(582.00)
27	118.00	(23.10)	77.10	(15.20)	5650.00	(1110.00)	1520.00	(304.00)	137.00	(36.90)	90.10	(24.20)	6600.00	(1770.00)	1760.00	(477.00)
28	102.00	(25.40)	66.90	(16.70)	4910.00	(1220.00)	1270.00	(321.00)	129.00	(36.20)	84.70	(23.70)	6200.00	(1740.00)	1590.00	(455.00)
29	100.00	(19.20)	65.80	(12.60)	4830.00	(923.00)	1200.00	(233.00)	121.00	(23.80)	79.60	(15.60)	5840.00	(1150.00)	1440.00	(290.00)
30	99.20	(13.20)	65.10	(8.65)	4780.00	(636.00)	1140.00	(155.00)	115.00	(16.10)	75.20	(10.60)	5520.00	(774.00)	1310.00	(189.00)
31	98.50	(14.00)	64.60	(9.15)	4750.00	(673.00)	1090.00	(157.00)	108.00	(15.80)	71.00	(10.30)	5220.00	(759.00)	1190.00	(175.00)
Avg	52.7		34.6		2530.0		947.0		50.5		33.1		2420.0		835.0	
n	26		26		26		26		26		26		26		26	
SD	47.3		31.0		2280.0		477.0		50.4		33.0		2420.0		522.0	
Min	2.3		1.5		109.0		375.0		1.7		1.1		78.0		260.0	
Max	134.0		88.1		6450.0		1900.0		137.0		90.1		6600.0		1790.0	

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for June, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	102.00 (16.60)	67.10 (10.90)	4940.00 (803.00)	1100.00 (182.00)	105.00 (17.10)	68.80 (11.20)	5060.00 (823.00)	1120.00 (186.00)
2	100.00 (14.50)	65.60 (9.48)	4840.00 (699.00)	1040.00 (151.00)	104.00 (14.10)	68.00 (9.26)	5000.00 (681.00)	1070.00 (147.00)
3	110.00 (17.20)	72.20 (11.30)	5330.00 (832.00)	1110.00 (174.00)	117.00 (16.80)	76.70 (11.00)	5650.00 (812.00)	1170.00 (168.00)
4	102.00 (14.30)	67.00 (9.36)	4960.00 (692.00)	1000.00 (142.00)	102.00 (13.30)	66.80 (8.75)	4920.00 (645.00)	988.00 (134.00)
5	85.60 (19.60)	56.10 (12.90)	4160.00 (953.00)	816.00 (191.00)	84.70 (18.70)	55.60 (12.30)	4100.00 (906.00)	800.00 (181.00)
6	54.10 (22.50)	35.50 (14.70)			74.50 (19.00)	48.80 (12.50)	3550.00 (666.00)	675.00 (130.00)
7	3.74 (7.25)	2.45 (4.76)			6.17 (13.00)	4.04 (8.54)		
8	0.00 (0.00)	0.00 (0.00)			0.00 (0.00)	0.00 (0.00)		
9	0.00 (0.00)	0.00 (0.00)			0.00 (0.00)	0.00 (0.00)		
10	4.42 (6.57)	2.90 (4.31)			5.43 (8.32)	3.56 (5.45)		
11	5.61 (2.93)	3.68 (1.92)			9.59 (8.64)	6.29 (5.66)		
12	7.66 (8.65)	5.02 (5.67)			7.42 (7.27)	4.87 (4.77)		
13	7.17 (6.74)	4.70 (4.42)			7.01 (8.32)	4.60 (5.46)		
14	6.15 (7.51)	4.03 (4.92)			6.64 (8.55)	4.35 (5.61)		
15	5.47 (7.55)	3.58 (4.95)	257.00 (355.00)	1900.00 (2530.00)	5.87 (8.13)	3.85 (5.33)	277.00 (383.00)	2030.00 (2710.00)
16	4.98 (4.78)	3.26 (3.14)	234.00 (225.00)	1990.00 (1900.00)	5.10 (5.24)	3.34 (3.44)	240.00 (247.00)	2030.00 (2080.00)
17	4.84 (4.76)	3.17 (3.12)	228.00 (224.00)	2050.00 (2010.00)	4.92 (5.38)	3.22 (3.53)	232.00 (254.00)	2090.00 (2280.00)
18	4.39 (4.48)	2.88 (2.93)	207.00 (211.00)	1790.00 (1830.00)	4.37 (4.52)	2.86 (2.96)	207.00 (214.00)	1790.00 (1870.00)
19	3.61 (4.05)	2.36 (2.66)	170.00 (191.00)	1300.00 (1490.00)	3.72 (3.67)	2.44 (2.41)	176.00 (174.00)	1360.00 (1360.00)
20	3.52 (3.48)	2.31 (2.28)	166.00 (164.00)	1060.00 (1090.00)	3.10 (3.50)	2.03 (2.30)	147.00 (166.00)	949.00 (1100.00)
21	4.16 (3.92)	2.73 (2.57)	197.00 (185.00)	1030.00 (1000.00)	4.55 (4.33)	2.98 (2.84)	216.00 (205.00)	1130.00 (1080.00)
22	3.20 (3.12)	2.10 (2.05)	151.00 (148.00)	642.00 (649.00)	3.23 (2.97)	2.12 (1.95)	153.00 (141.00)	654.00 (617.00)
23	3.63 (2.88)	2.38 (1.89)	172.00 (136.00)	588.00 (472.00)	3.44 (2.88)	2.25 (1.89)	163.00 (136.00)	562.00 (477.00)
24	4.08 (3.22)	2.68 (2.11)	193.00 (152.00)	545.00 (437.00)	3.31 (2.82)	2.17 (1.85)	157.00 (134.00)	447.00 (389.00)
25	3.45 (3.35)	2.26 (2.20)	163.00 (159.00)	381.00 (374.00)	2.91 (3.19)	1.91 (2.09)	138.00 (152.00)	325.00 (356.00)
26	4.92 (3.42)	3.23 (2.25)	233.00 (162.00)	458.00 (324.00)	3.50 (3.12)	2.29 (2.05)	166.00 (148.00)	331.00 (301.00)
27	3.68 (3.81)	2.41 (2.50)	174.00 (180.00)	294.00 (309.00)	3.11 (3.01)	2.04 (1.98)	148.00 (143.00)	250.00 (245.00)
28	4.61 (3.60)	3.02 (2.36)	219.00 (171.00)	316.00 (250.00)	3.83 (2.71)	2.51 (1.78)	182.00 (129.00)	265.00 (189.00)
29	4.53 (3.23)	2.97 (2.12)	215.00 (153.00)	272.00 (196.00)	3.48 (2.53)	2.28 (1.66)	166.00 (120.00)	211.00 (155.00)
30	6.01 (3.50)	3.94 (2.29)	285.00 (166.00)	316.00 (184.00)	4.66 (2.67)	3.06 (1.75)	222.00 (127.00)	246.00 (141.00)
Avg	21.9	14.4	1310.0	952.0	23.1	15.1	1420.0	931.0
n	30	30	21	21	30	30	22	22
SD	36.2	23.8	1990.0	568.0	37.9	24.9	2050.0	602.0
Min	0.0	0.0	151.0	272.0	0.0	0.0	138.0	211.0
Max	110.0	72.2	5330.0	2050.0	117.0	76.7	5650.0	2090.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for July, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	6.69	(3.79)	4.38	(2.48)	317.00	(180.00)	312.00	(179.00)	4.70	(2.84)	3.08	(1.86)	224.00	(135.00)	221.00	(134.00)
2	7.16	(3.65)	4.70	(2.39)	340.00	(174.00)	299.00	(154.00)	5.32	(2.96)	3.49	(1.94)	254.00	(141.00)	224.00	(127.00)
3	7.94	(4.06)	5.21	(2.66)	378.00	(193.00)	298.00	(154.00)	5.53	(3.13)	3.63	(2.05)	264.00	(149.00)	209.00	(118.00)
4	10.30	(5.04)	6.73	(3.30)	488.00	(240.00)	350.00	(173.00)	6.49	(3.62)	4.26	(2.37)	310.00	(173.00)	223.00	(126.00)
5	15.20	(7.45)	9.94	(4.89)	721.00	(355.00)	470.00	(232.00)	8.86	(4.43)	5.81	(2.91)	423.00	(212.00)	277.00	(138.00)
6	23.40	(9.96)	15.30	(6.53)	1110.00	(475.00)	667.00	(291.00)	14.60	(6.04)	9.61	(3.96)	700.00	(289.00)	420.00	(176.00)
7	34.70	(11.10)	22.80	(7.27)	1660.00	(529.00)	912.00	(295.00)	24.20	(8.57)	15.90	(5.62)	1160.00	(410.00)	638.00	(225.00)
8	43.20	(8.14)	28.30	(5.34)	2060.00	(389.00)	1050.00	(187.00)	38.70	(9.85)	25.40	(6.46)	1850.00	(472.00)	946.00	(236.00)
9	45.10	(6.86)	29.60	(4.50)	2150.00	(328.00)	1020.00	(153.00)	42.30	(6.36)	27.70	(4.17)	2030.00	(305.00)	962.00	(149.00)
10	46.50	(9.80)	30.50	(6.43)	2220.00	(468.00)	976.00	(196.00)	45.70	(8.11)	30.00	(5.32)	2200.00	(389.00)	969.00	(163.00)
11	56.90	(9.16)	37.30	(6.01)	2720.00	(438.00)	1120.00	(172.00)	51.40	(5.02)	33.70	(3.29)	2470.00	(241.00)	1020.00	(93.90)
12	73.10	(11.80)	47.90	(7.75)	3500.00	(566.00)	1350.00	(211.00)	65.70	(11.60)	43.10	(7.63)	3160.00	(559.00)	1220.00	(207.00)
13	90.50	(12.30)	59.30	(8.09)	4330.00	(591.00)	1580.00	(199.00)	86.00	(8.72)	56.40	(5.72)	4140.00	(420.00)	1510.00	(137.00)
14	87.90	(11.20)	57.60	(7.37)	4220.00	(539.00)	1450.00	(187.00)	92.00	(9.93)	60.30	(6.51)	4430.00	(479.00)	1530.00	(158.00)
15	90.70	(12.50)	59.50	(8.19)	4350.00	(600.00)	1420.00	(191.00)	110.00	(14.20)	71.90	(9.30)	5300.00	(684.00)	1730.00	(221.00)
16	89.60	(12.70)	58.70	(8.30)	4300.00	(608.00)	1330.00	(184.00)	104.00	(11.70)	68.30	(7.64)	5030.00	(563.00)	1560.00	(178.00)
17	81.00	(12.20)	53.10	(8.02)	3900.00	(588.00)	1150.00	(179.00)	94.40	(12.50)	61.90	(8.18)	4570.00	(604.00)	1350.00	(185.00)
18	81.90	(17.70)	53.70	(11.60)	3940.00	(854.00)	1110.00	(238.00)	85.70	(21.60)	56.20	(14.20)	4150.00	(1050.00)	1170.00	(298.00)
19	113.00	(16.30)	74.30	(10.70)	5460.00	(785.00)	1460.00	(205.00)	103.00	(12.90)	67.30	(8.48)	4980.00	(627.00)	1340.00	(167.00)
20	117.00	(18.00)	76.90	(11.80)	5660.00	(870.00)	1450.00	(219.00)	112.00	(13.60)	73.20	(8.92)	5420.00	(660.00)	1400.00	(167.00)
21	118.00	(15.30)	77.60	(10.00)	5720.00	(740.00)	1410.00	(187.00)	103.00	(11.20)	67.80	(7.33)	5030.00	(544.00)	1250.00	(142.00)
22	110.00	(11.80)	72.00	(7.76)	5310.00	(573.00)	1260.00	(135.00)	105.00	(15.10)	69.10	(9.90)	5140.00	(736.00)	1220.00	(173.00)
23	101.00	(14.50)	66.50	(9.53)	4910.00	(704.00)	1130.00	(158.00)	100.00	(13.60)	65.80	(8.91)	4910.00	(664.00)	1130.00	(150.00)
24	107.00	(21.10)	70.40	(13.90)	5210.00	(1030.00)	1150.00	(218.00)	102.00	(17.90)	67.20	(11.80)	5020.00	(879.00)	1110.00	(186.00)
25	117.00	(25.70)	76.60	(16.90)	5680.00	(1250.00)	1210.00	(263.00)	105.00	(23.10)	69.10	(15.10)	5180.00	(1130.00)	1110.00	(239.00)
26	117.00	(14.90)	76.70	(9.77)	5690.00	(725.00)	1180.00	(147.00)	103.00	(14.40)	67.70	(9.46)	5080.00	(709.00)	1050.00	(144.00)
27	119.00	(13.60)	78.40	(8.92)	5820.00	(663.00)	1170.00	(133.00)	108.00	(14.20)	70.80	(9.29)	5320.00	(699.00)	1070.00	(138.00)
28	102.00	(12.10)	67.00	(7.92)	4980.00	(590.00)	975.00	(114.00)	104.00	(12.90)	68.30	(8.46)	5150.00	(638.00)	1010.00	(126.00)
29	88.50	(15.80)	58.00	(10.30)	4330.00	(770.00)	824.00	(149.00)	86.90	(15.40)	57.00	(10.10)	4310.00	(763.00)	822.00	(148.00)
30	95.30	(12.60)	62.50	(8.29)	4670.00	(619.00)	868.00	(117.00)	88.40	(14.00)	57.90	(9.18)	4420.00	(700.00)	822.00	(133.00)
31	80.40	(28.30)	52.70	(18.50)	3950.00	(1390.00)	717.00	(253.00)	72.90	(18.50)	47.80	(12.10)	3680.00	(933.00)	669.00	(172.00)
Avg	73.5		48.2		3550.0		1020.0		70.3		46.1		3430.0		973.0	
n	31		31		31		31		31		31		31		31	
SD	38.0		24.9		1850.0		368.0		38.2		25.1		1870.0		425.0	
Min	6.7		4.4		317.0		298.0		4.7		3.1		224.0		209.0	
Max	119.0		78.4		5820.0		1580.0		112.0		73.2		5420.0		1730.0	

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for August, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	29.20	(33.70)	19.20	(22.10)					49.60	(59.20)	32.50	(38.80)				
2	73.50	(183.00)	48.20	(120.00)					50.90	(70.20)	33.40	(46.10)				
3	10.80	(3.14)	7.11	(2.06)					12.00	(2.58)	7.87	(1.69)				
4	6.28	(2.56)	4.12	(1.68)					4.74	(2.65)	3.11	(1.74)				
5	3.61	(1.41)	2.36	(0.93)					2.45	(0.90)	1.61	(0.59)				
6	2.18	(2.96)	1.43	(1.94)					2.61	(3.17)	1.71	(2.08)				
7	3.34	(4.88)	2.19	(3.20)					3.28	(4.37)	2.15	(2.87)				
8	3.25	(2.26)	2.13	(1.48)					3.25	(2.20)	2.13	(1.44)				
9	2.93	(1.00)	1.92	(0.66)					2.84	(0.96)	1.87	(0.63)				
10	2.54	(2.37)	1.67	(1.56)					2.53	(2.15)	1.66	(1.41)				
11	1.93	(3.17)	1.26	(2.08)					2.05	(2.52)	1.34	(1.66)				
12	1.88	(3.20)	1.23	(2.10)	87.90	(149.00)	634.00	(1060.00)	1.85	(2.80)	1.21	(1.84)	86.40	(131.00)	623.00	(941.00)
13	2.17	(3.05)	1.42	(2.00)	101.00	(143.00)	851.00	(1180.00)	2.38	(3.16)	1.56	(2.08)	111.00	(148.00)	936.00	(1230.00)
14	4.00	(3.41)	2.62	(2.24)	187.00	(160.00)	1680.00	(1430.00)	3.44	(3.22)	2.26	(2.11)	161.00	(151.00)	1450.00	(1350.00)
15	3.08	(3.04)	2.02	(1.99)	144.00	(142.00)	1260.00	(1260.00)	2.62	(2.82)	1.72	(1.85)	123.00	(132.00)	1070.00	(1160.00)
16	2.80	(2.64)	1.83	(1.73)	131.00	(124.00)	1020.00	(978.00)	2.34	(2.29)	1.53	(1.50)	110.00	(108.00)	856.00	(858.00)
17	3.04	(2.87)	1.99	(1.88)	143.00	(135.00)	932.00	(900.00)	2.42	(2.23)	1.59	(1.46)	114.00	(105.00)	742.00	(698.00)
18	2.89	(3.21)	1.90	(2.10)	136.00	(150.00)	723.00	(811.00)								
19	3.12	(3.07)	2.04	(2.01)	146.00	(144.00)	629.00	(628.00)	2.48	(2.30)	1.62	(1.51)	116.00	(108.00)	501.00	(472.00)
20	4.06	(3.45)	2.66	(2.26)	191.00	(162.00)	664.00	(569.00)	2.67	(2.36)	1.75	(1.55)	125.00	(111.00)	438.00	(387.00)
21	5.90	(4.65)	3.87	(3.05)	277.00	(218.00)	801.00	(640.00)	3.34	(2.97)	2.19	(1.95)	157.00	(140.00)	454.00	(414.00)
22	8.08	(5.74)	5.30	(3.76)	379.00	(269.00)	906.00	(654.00)	4.39	(2.97)	2.88	(1.94)	207.00	(140.00)	493.00	(339.00)
23	8.96	(6.92)	5.87	(4.54)	421.00	(325.00)	848.00	(673.00)	3.88	(3.25)	2.54	(2.13)	182.00	(153.00)	367.00	(313.00)
24	12.00	(7.01)	7.87	(4.60)	563.00	(329.00)	964.00	(576.00)	5.43	(3.61)	3.56	(2.37)	255.00	(170.00)	437.00	(293.00)
25	12.70	(7.98)	8.32	(5.23)	596.00	(375.00)	882.00	(567.00)	6.56	(4.46)	4.30	(2.93)	309.00	(210.00)	455.00	(317.00)
26	12.60	(8.47)	8.26	(5.55)	592.00	(398.00)	760.00	(522.00)	6.34	(4.59)	4.16	(3.01)	299.00	(216.00)	383.00	(281.00)
27	17.90	(9.47)	11.80	(6.21)	843.00	(445.00)	948.00	(507.00)	9.81	(5.59)	6.44	(3.66)	462.00	(263.00)	519.00	(298.00)
28	23.40	(12.30)	15.40	(8.04)	1100.00	(576.00)	1100.00	(593.00)	10.30	(6.47)	6.75	(4.25)	485.00	(305.00)	483.00	(308.00)
29	31.00	(13.10)	20.30	(8.60)	1460.00	(617.00)	1300.00	(561.00)	17.90	(7.35)	11.70	(4.82)	843.00	(347.00)	747.00	(302.00)
30	31.10	(14.00)	20.40	(9.21)	1460.00	(661.00)	1170.00	(535.00)	21.40	(11.10)	14.00	(7.25)	1010.00	(521.00)	810.00	(421.00)
31	32.40	(20.00)	21.20	(13.10)	1520.00	(942.00)	1110.00	(699.00)	23.70	(14.40)	15.50	(9.44)	1120.00	(679.00)	813.00	(501.00)
Avg	11.7		7.7		524.0		959.0		9.0		5.9		330.0		662.0	
n	31		31		20		20		30		30		19		19	
SD	14.8		9.7		481.0		252.0		12.4		8.1		310.0		272.0	
Min	1.9		1.2		87.9		629.0		1.9		1.2		86.4		367.0	
Max	73.5		48.2		1520.0		1680.0		50.9		33.4		1120.0		1450.0	

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for September, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	34.60 (19.30)	22.70 (12.60)	1630.00 (907.00)	1080.00 (608.00)	25.90 (15.00)	17.00 (9.85)	1220.00 (709.00)	808.00 (476.00)
2	47.60 (23.00)	31.20 (15.10)	2240.00 (1080.00)	1360.00 (667.00)	35.00 (16.00)	23.00 (10.50)	1650.00 (757.00)	1000.00 (461.00)
3	53.30 (24.70)	35.00 (16.20)	2510.00 (1170.00)	1400.00 (669.00)	40.00 (19.20)	26.20 (12.60)	1890.00 (907.00)	1050.00 (516.00)
4	41.60 (20.30)	27.20 (13.30)	1960.00 (956.00)	1010.00 (504.00)	41.90 (20.90)	27.50 (13.70)	1980.00 (987.00)	1020.00 (519.00)
5	46.60 (16.80)	30.60 (11.00)	2200.00 (794.00)	1050.00 (380.00)	50.00 (18.10)	32.80 (11.90)	2370.00 (858.00)	1130.00 (420.00)
6	49.90 (17.00)	32.70 (11.10)	2360.00 (803.00)	1050.00 (355.00)	49.30 (19.30)	32.30 (12.60)	2330.00 (912.00)	1040.00 (409.00)
7	63.70 (15.20)	41.80 (9.96)	3010.00 (718.00)	1250.00 (298.00)	61.80 (16.10)	40.60 (10.60)	2930.00 (765.00)	1220.00 (321.00)
8	73.60 (26.20)	48.30 (17.20)	3480.00 (1240.00)	1360.00 (490.00)	77.70 (27.70)	51.00 (18.20)	3680.00 (1310.00)	1440.00 (517.00)
9	80.20 (31.20)	52.60 (20.40)	3790.00 (1470.00)	1390.00 (542.00)	94.10 (36.20)	61.70 (23.70)	4460.00 (1720.00)	1640.00 (630.00)
10	102.00 (37.50)	66.70 (24.60)	4820.00 (1780.00)	1670.00 (621.00)	103.00 (39.60)	67.50 (25.90)	4880.00 (1880.00)	1690.00 (662.00)
11	116.00 (36.40)	75.90 (23.90)	5480.00 (1720.00)	1800.00 (570.00)	98.30 (34.20)	64.40 (22.40)	4660.00 (1620.00)	1530.00 (541.00)
12	117.00 (35.40)	76.90 (23.20)	5560.00 (1680.00)	1730.00 (530.00)	93.00 (30.30)	61.00 (19.90)	4420.00 (1440.00)	1380.00 (456.00)
13	122.00 (26.10)	80.00 (17.10)	5790.00 (1240.00)	1710.00 (366.00)	103.00 (25.20)	67.70 (16.50)	4910.00 (1200.00)	1450.00 (350.00)
14	144.00 (28.20)	94.50 (18.50)	6840.00 (1340.00)	1930.00 (377.00)	122.00 (23.60)	79.70 (15.50)	5780.00 (1120.00)	1630.00 (316.00)
15	165.00 (23.50)	109.00 (15.40)	7860.00 (1120.00)	2120.00 (298.00)	150.00 (21.60)	98.50 (14.10)	7150.00 (1030.00)	1930.00 (273.00)
16	155.00 (24.40)	102.00 (16.00)	7370.00 (1160.00)	1910.00 (298.00)	146.00 (22.80)	96.00 (14.90)	6980.00 (1080.00)	1800.00 (281.00)
17	135.00 (20.50)	88.50 (13.50)	6420.00 (976.00)	1590.00 (241.00)	133.00 (19.50)	87.00 (12.80)	6330.00 (930.00)	1570.00 (229.00)
18	148.00 (18.30)	96.80 (12.00)	7030.00 (871.00)	1680.00 (208.00)	146.00 (15.70)	95.60 (10.30)	6970.00 (753.00)	1670.00 (182.00)
19	149.00 (16.00)	97.40 (10.50)	7080.00 (764.00)	1630.00 (174.00)	152.00 (19.30)	99.70 (12.60)	7280.00 (922.00)	1670.00 (213.00)
20	166.00 (21.90)	109.00 (14.30)	7910.00 (1040.00)	1760.00 (230.00)	155.00 (21.40)	101.00 (14.10)	7410.00 (1030.00)	1650.00 (231.00)
21	173.00 (25.40)	113.00 (16.70)	8260.00 (1220.00)	1780.00 (260.00)	153.00 (21.10)	101.00 (13.90)	7350.00 (1010.00)	1580.00 (216.00)
22	150.00 (24.80)	98.40 (16.30)	7170.00 (1190.00)	1490.00 (253.00)	137.00 (23.60)	89.60 (15.50)	6550.00 (1130.00)	1370.00 (242.00)
23	114.00 (17.00)	75.00 (11.10)	5470.00 (812.00)	1110.00 (165.00)	117.00 (16.40)	76.80 (10.70)	5620.00 (786.00)	1140.00 (162.00)
24	106.00 (25.80)	69.40 (16.90)	5070.00 (1240.00)	995.00 (240.00)	107.00 (22.80)	70.00 (14.90)	5130.00 (1090.00)	1010.00 (212.00)
25	105.00 (19.10)	68.70 (12.50)	5030.00 (914.00)	962.00 (179.00)	102.00 (16.40)	67.10 (10.80)	4920.00 (789.00)	941.00 (154.00)
26	89.90 (16.40)	58.90 (10.80)	4270.00 (761.00)	797.00 (142.00)	91.00 (14.70)	59.70 (9.65)	4370.00 (708.00)	816.00 (135.00)
27								
28								
29								
30								
Avg	106.0	69.3	5020.0	1450.0	99.4	65.2	4740.0	1350.0
n	26	26	26	26	26	26	26	26
SD	43.1	28.2	2060.0	352.0	40.4	26.5	1940.0	320.0
Min	34.6	22.7	1630.0	797.0	25.9	17.0	1220.0	808.0
Max	173.0	113.0	8260.0	2120.0	155.0	101.0	7410.0	1930.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for November, 2008.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1								
2								
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17								
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19								
20	69.50 (37.00)	45.50 (24.20)	3320.00 (1760.00)	1090.00 (575.00)	68.80 (39.40)	45.10 (25.80)	3280.00 (1870.00)	1060.00 (604.00)
21	68.40 (43.70)	44.80 (28.70)	3260.00 (2090.00)	1020.00 (650.00)	65.40 (44.90)	42.90 (29.50)	3110.00 (2140.00)	959.00 (660.00)
22	71.40 (41.50)	46.80 (27.20)	3410.00 (1980.00)	1010.00 (588.00)	69.70 (42.70)	45.70 (28.00)	3320.00 (2030.00)	972.00 (595.00)
23	73.00 (41.50)	47.90 (27.20)	3490.00 (1980.00)	985.00 (557.00)	76.10 (44.00)	49.90 (28.90)	3620.00 (2100.00)	1010.00 (582.00)
24	78.60 (38.40)	51.50 (25.20)	3760.00 (1840.00)	1020.00 (500.00)	80.30 (39.50)	52.70 (25.90)	3830.00 (1880.00)	1020.00 (507.00)
25	73.70 (30.00)	48.30 (19.60)	3530.00 (1430.00)	913.00 (374.00)				
26	84.60 (19.80)	55.40 (13.00)	4050.00 (949.00)	1010.00 (238.00)	91.30 (23.90)	59.90 (15.60)	4350.00 (1140.00)	1070.00 (285.00)
27	81.80 (6.67)	53.60 (4.37)	3920.00 (319.00)	937.00 (80.60)	81.70 (7.84)	53.60 (5.14)	3890.00 (374.00)	924.00 (94.70)
28	74.70 (7.63)	49.00 (5.00)	3580.00 (365.00)	825.00 (88.20)	58.50 (10.50)	38.40 (6.88)	2790.00 (500.00)	638.00 (118.00)
29	78.20 (16.20)	51.20 (10.60)	3750.00 (776.00)	833.00 (170.00)	81.50 (27.10)	53.40 (17.70)	3890.00 (1290.00)	857.00 (281.00)
30	79.00 (20.10)	51.80 (13.20)	3790.00 (964.00)	814.00 (206.00)	90.80 (25.90)	59.50 (17.00)	4330.00 (1230.00)	924.00 (263.00)
Avg	75.7	49.6	3620.0	950.0	76.4	50.1	3640.0	945.0
n	11	11	11	11	10	10	10	10
SD	4.9	3.2	239.0	88.0	10.2	6.7	488.0	120.0
Min	68.4	44.8	3260.0	814.0	58.5	38.4	2790.0	638.0
Max	84.6	55.4	4050.0	1090.0	91.3	59.9	4350.0	1070.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for December, 2008.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	73.70	(12.80)	48.40	(8.39)	3540.00	(614.00)	738.00	(130.00)	81.40	(14.30)	53.40	(9.40)	3890.00	(684.00)	804.00	(144.00)
2	75.40	(9.96)	49.50	(6.53)	3620.00	(478.00)	732.00	(95.30)	80.70	(12.20)	52.90	(7.99)	3850.00	(581.00)	773.00	(115.00)
3	83.60	(19.40)	54.80	(12.70)	4010.00	(931.00)	789.00	(182.00)	78.00	(13.60)	51.10	(8.91)	3720.00	(648.00)	727.00	(131.00)
4	18.10	(34.40)	11.90	(22.50)					17.20	(18.50)	11.30	(12.10)				
5	6.86	(2.25)	4.50	(1.47)					11.10	(2.92)	7.30	(1.91)				
6	4.86	(1.03)	3.19	(0.67)					6.98	(0.94)	4.58	(0.62)				
7	3.57	(0.96)	2.34	(0.63)					5.91	(1.20)	3.88	(0.79)				
8	4.30	(5.44)	2.82	(3.57)					5.52	(7.64)	3.62	(5.01)				
9	3.66	(7.35)	2.40	(4.82)					6.03	(11.40)	3.95	(7.50)				
10	2.96	(5.97)	1.94	(3.91)					4.40	(8.82)	2.89	(5.79)				
11	2.87	(5.78)	1.88	(3.79)					4.08	(8.25)	2.68	(5.41)				
12	2.45	(4.99)	1.61	(3.27)					3.64	(7.36)	2.39	(4.83)				
13	1.96	(4.01)	1.28	(2.63)	92.30	(189.00)	667.00	(1340.00)	2.90	(5.38)	1.90	(3.53)	136.00	(253.00)	966.00	(1760.00)
14	1.70	(2.78)	1.11	(1.83)	80.40	(132.00)	683.00	(1120.00)	2.41	(3.58)	1.58	(2.35)	114.00	(169.00)	949.00	(1410.00)
15	2.45	(3.61)	1.60	(2.37)	116.00	(171.00)	1040.00	(1530.00)	2.99	(4.11)	1.96	(2.70)	141.00	(194.00)	1260.00	(1740.00)
16	2.19	(2.90)	1.43	(1.90)	104.00	(137.00)	898.00	(1200.00)	2.52	(3.54)	1.65	(2.32)	119.00	(167.00)	1040.00	(1470.00)
17	1.52	(2.06)	1.00	(1.35)	71.90	(97.40)	554.00	(753.00)	1.60	(2.78)	1.05	(1.82)	75.60	(132.00)	592.00	(1030.00)
18	1.55	(2.09)	1.01	(1.37)	73.30	(99.20)	470.00	(629.00)	1.89	(3.35)	1.24	(2.20)	89.50	(159.00)	589.00	(1030.00)
19	2.55	(3.25)	1.68	(2.13)	121.00	(154.00)	638.00	(811.00)	2.63	(4.29)	1.73	(2.82)	125.00	(203.00)	676.00	(1110.00)
20	1.54	(2.22)	1.01	(1.45)	73.20	(105.00)	311.00	(443.00)	1.55	(2.76)	1.02	(1.81)	73.60	(131.00)	322.00	(572.00)
21	1.05	(1.97)	0.69	(1.29)	50.00	(93.30)	176.00	(340.00)	0.97	(1.95)	0.63	(1.28)	45.80	(92.40)	164.00	(345.00)
22	6.12	(8.77)	4.01	(5.75)	290.00	(416.00)	801.00	(1130.00)	3.34	(5.53)	2.19	(3.63)	159.00	(262.00)	451.00	(731.00)
23	8.63	(11.60)	5.66	(7.62)	410.00	(551.00)	968.00	(1310.00)	5.75	(7.64)	3.77	(5.01)	273.00	(363.00)	660.00	(878.00)
24	9.70	(12.20)	6.36	(7.99)	461.00	(578.00)	917.00	(1150.00)	6.79	(8.46)	4.45	(5.55)	322.00	(402.00)	655.00	(814.00)
25	11.00	(13.70)	7.21	(8.95)	522.00	(648.00)	889.00	(1110.00)	7.51	(9.30)	4.92	(6.10)	357.00	(442.00)	620.00	(772.00)
26	10.50	(12.80)	6.87	(8.39)	498.00	(608.00)	734.00	(911.00)	6.92	(8.34)	4.54	(5.47)	329.00	(396.00)	494.00	(605.00)
27	14.60	(15.90)	9.55	(10.40)	692.00	(756.00)	877.00	(950.00)	8.75	(8.92)	5.74	(5.85)	416.00	(424.00)	538.00	(547.00)
28	20.20	(19.60)	13.20	(12.90)	958.00	(934.00)	1070.00	(1040.00)	11.90	(11.30)	7.81	(7.38)	567.00	(536.00)	645.00	(607.00)
29	16.70	(21.70)	11.00	(14.20)	795.00	(1030.00)	778.00	(994.00)	5.48	(14.20)	3.60	(9.30)	261.00	(675.00)	254.00	(658.00)
30	35.00	(32.40)	23.00	(21.30)	1670.00	(1540.00)	1480.00	(1360.00)	22.50	(22.80)	14.70	(14.90)	1070.00	(1090.00)	960.00	(971.00)
31	37.20	(37.70)	24.40	(24.70)	1770.00	(1790.00)	1410.00	(1440.00)	29.70	(29.20)	19.40	(19.20)	1410.00	(1390.00)	1140.00	(1130.00)
Avg	15.1		9.9		910.0		801.0		14.0		9.2		797.0		695.0	
n	31		31		22		22		31		31		22		22	
SD	22.3		14.6		1220.0		294.0		22.5		14.7		1240.0		273.0	
Min	1.1		0.7		50.0		176.0		1.0		0.6		45.8		164.0	
Max	83.6		54.8		4010.0		1480.0		81.4		53.4		3890.0		1260.0	

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for January, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	49.90 (43.00)	32.70 (28.20)	2370.00 (2040.00)	1720.00 (1480.00)	48.50 (41.60)	31.80 (27.30)	2310.00 (1990.00)	1690.00 (1450.00)
2	47.50 (38.10)	31.20 (25.00)	2260.00 (1810.00)	1490.00 (1210.00)	53.10 (41.70)	34.80 (27.40)	2530.00 (1990.00)	1690.00 (1340.00)
3	32.70 (27.80)	21.40 (18.20)	1560.00 (1320.00)	938.00 (796.00)	39.40 (31.70)	25.80 (20.80)	1880.00 (1510.00)	1150.00 (927.00)
4	31.90 (32.40)	20.90 (21.30)	1520.00 (1540.00)	836.00 (844.00)	36.30 (36.20)	23.80 (23.80)	1730.00 (1730.00)	964.00 (957.00)
5	42.40 (39.00)	27.80 (25.60)	2020.00 (1860.00)	1030.00 (948.00)	47.80 (43.80)	31.40 (28.70)	2290.00 (2090.00)	1180.00 (1080.00)
6	48.50 (44.60)	31.80 (29.30)	2310.00 (2130.00)	1100.00 (1010.00)	52.50 (48.40)	34.50 (31.70)	2510.00 (2310.00)	1200.00 (1110.00)
7	33.80 (40.40)	22.20 (26.50)	1610.00 (1930.00)	713.00 (852.00)	32.50 (41.10)	21.30 (27.00)	1550.00 (1970.00)	693.00 (879.00)
8	33.70 (33.90)	22.10 (22.30)	1610.00 (1620.00)	670.00 (682.00)	33.80 (35.20)	22.20 (23.10)	1620.00 (1690.00)	680.00 (718.00)
9	58.20 (35.90)	38.10 (23.50)	2770.00 (1710.00)	1080.00 (659.00)	54.50 (35.40)	35.70 (23.20)	2610.00 (1690.00)	1020.00 (656.00)
10	66.20 (47.80)	43.40 (31.30)	3160.00 (2280.00)	1150.00 (828.00)	64.60 (46.10)	42.30 (30.20)	3090.00 (2210.00)	1140.00 (810.00)
11	71.40 (48.50)	46.80 (31.80)	3410.00 (2310.00)	1180.00 (797.00)	70.40 (47.10)	46.20 (30.90)	3370.00 (2260.00)	1170.00 (783.00)
12	85.60 (46.50)	56.10 (30.50)	4080.00 (2220.00)	1340.00 (727.00)	85.90 (45.90)	56.30 (30.10)	4120.00 (2200.00)	1350.00 (726.00)
13	90.30 (42.60)	59.20 (27.90)	4310.00 (2030.00)	1340.00 (633.00)	94.00 (44.60)	61.60 (29.30)	4510.00 (2140.00)	1410.00 (670.00)
14	89.50 (40.70)	58.70 (26.70)	4270.00 (1940.00)	1260.00 (575.00)	94.90 (43.00)	62.20 (28.20)	4550.00 (2060.00)	1350.00 (616.00)
15	78.30 (31.70)	51.40 (20.80)	3740.00 (1520.00)	1060.00 (431.00)	84.90 (36.00)	55.70 (23.60)	4080.00 (1730.00)	1160.00 (494.00)
16	91.10 (35.00)	59.70 (23.00)	4350.00 (1670.00)	1170.00 (444.00)	92.80 (46.70)	60.90 (30.60)	4460.00 (2240.00)	1210.00 (598.00)
17	98.70 (35.50)	64.70 (23.30)	4720.00 (1700.00)	1220.00 (440.00)	100.00 (50.70)	65.60 (33.30)	4810.00 (2440.00)	1250.00 (634.00)
18	94.10 (29.50)	61.70 (19.30)	4500.00 (1410.00)	1120.00 (354.00)	96.60 (35.40)	63.30 (23.20)	4650.00 (1700.00)	1160.00 (430.00)
19	81.30 (26.60)	53.30 (17.50)	3890.00 (1270.00)	930.00 (310.00)	76.80 (26.00)	50.40 (17.00)	3700.00 (1250.00)	888.00 (306.00)
20	79.80 (17.70)	52.30 (11.60)	3820.00 (845.00)	877.00 (194.00)	72.10 (20.10)	47.30 (13.10)	3470.00 (966.00)	801.00 (222.00)
21	78.90 (10.90)	51.70 (7.12)	3780.00 (520.00)	838.00 (120.00)	97.30 (8.46)	63.80 (5.54)	4690.00 (407.00)	1040.00 (87.10)
22	83.80 (8.31)	55.00 (5.45)	4010.00 (398.00)	859.00 (81.40)	95.50 (7.65)	62.60 (5.02)	4610.00 (369.00)	993.00 (84.80)
23	107.00 (7.59)	69.90 (4.98)	5110.00 (364.00)	1060.00 (74.20)	98.40 (5.79)	64.50 (3.80)	4750.00 (280.00)	992.00 (60.20)
24	97.60 (12.00)	64.00 (7.84)	4680.00 (573.00)	944.00 (122.00)	91.20 (8.48)	59.80 (5.56)	4410.00 (410.00)	893.00 (88.00)
25	91.50 (4.56)	60.00 (2.99)	4390.00 (219.00)	862.00 (47.90)	87.40 (3.52)	57.30 (2.31)	4230.00 (170.00)	832.00 (36.50)
26	82.30 (3.86)	54.00 (2.53)	3950.00 (185.00)	755.00 (37.40)	76.50 (5.77)	50.20 (3.78)	3710.00 (280.00)	711.00 (56.70)
27	74.90 (8.60)	49.10 (5.64)	3600.00 (413.00)	670.00 (73.30)	68.70 (8.47)	45.10 (5.55)	3330.00 (410.00)	622.00 (74.70)
28	51.90 (32.50)	34.10 (21.30)			44.30 (32.10)	29.10 (21.10)		
29	7.00 (6.22)	4.59 (4.08)			8.09 (9.02)	5.30 (5.92)		
30	16.50 (34.00)	10.80 (22.30)			13.90 (30.50)	9.12 (20.00)		
31	22.60 (47.00)	14.80 (30.80)			23.70 (48.60)	15.50 (31.90)		
Avg	65.1	42.7	3400.0	1040.0	65.7	43.1	3470.0	1080.0
n	31	31	27	27	31	31	27	27
SD	27.0	17.7	1090.0	247.0	27.0	17.7	1080.0	272.0
Min	7.0	4.6	1520.0	670.0	8.1	5.3	1550.0	622.0
Max	107.0	69.9	5110.0	1720.0	100.0	65.6	4810.0	1690.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for February, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	13.40 (27.50)	8.81 (18.00)			15.30 (31.30)	10.10 (20.50)		
2	7.94 (17.10)	5.21 (11.20)			9.34 (18.10)	6.12 (11.90)		
3	5.76 (11.60)	3.78 (7.63)			6.72 (8.52)	4.41 (5.59)		
4	8.20 (14.20)	5.38 (9.32)			10.60 (14.90)	6.93 (9.76)		
5	6.23 (11.50)	4.08 (7.56)			3.46 (5.82)	2.27 (3.82)		
6	3.97 (7.54)	2.60 (4.95)			4.07 (8.13)	2.67 (5.33)		
7	3.98 (7.99)	2.61 (5.24)			3.84 (7.71)	2.52 (5.06)		
8	4.27 (8.59)	2.80 (5.63)			3.87 (7.81)	2.54 (5.12)		
9					4.32 (8.55)	2.83 (5.60)		
10	5.02 (10.10)	3.29 (6.60)	236.00 (474.00)	1710.00 (3440.00)	4.95 (8.11)	3.25 (5.32)	231.00 (378.00)	1650.00 (2720.00)
11	4.80 (9.66)	3.15 (6.33)	226.00 (456.00)	1870.00 (3760.00)	4.84 (6.96)	3.18 (4.57)	226.00 (325.00)	1880.00 (2700.00)
12					5.58 (7.35)	3.66 (4.82)	261.00 (343.00)	2340.00 (3080.00)
13	5.76 (10.10)	3.78 (6.62)	273.00 (478.00)	2380.00 (4180.00)	5.80 (8.54)	3.80 (5.60)	271.00 (399.00)	2370.00 (3490.00)
14	6.00 (7.78)	3.93 (5.10)	284.00 (369.00)	2220.00 (2890.00)	5.63 (7.36)	3.69 (4.83)	264.00 (345.00)	2070.00 (2730.00)
15	5.60 (6.97)	3.67 (4.57)	266.00 (331.00)	1740.00 (2170.00)	4.99 (6.21)	3.27 (4.07)	234.00 (291.00)	1550.00 (1920.00)
16	6.26 (7.72)	4.11 (5.07)	297.00 (367.00)	1590.00 (1960.00)	5.17 (6.41)	3.39 (4.20)	243.00 (301.00)	1310.00 (1630.00)
17	5.00 (6.82)	3.28 (4.47)	238.00 (324.00)	1050.00 (1450.00)	3.88 (5.27)	2.54 (3.46)	182.00 (247.00)	810.00 (1110.00)
18	10.50 (13.90)	6.88 (9.09)	499.00 (660.00)	1740.00 (2290.00)	7.44 (9.83)	4.88 (6.44)	349.00 (461.00)	1230.00 (1620.00)
19	14.40 (16.40)	9.42 (10.80)	684.00 (782.00)	1980.00 (2250.00)	9.44 (11.30)	6.19 (7.40)	444.00 (531.00)	1300.00 (1550.00)
20	14.50 (19.20)	9.54 (12.60)	693.00 (914.00)	1670.00 (2210.00)	9.61 (12.90)	6.30 (8.46)	452.00 (607.00)	1100.00 (1470.00)
21	17.20 (20.70)	11.20 (13.60)	817.00 (989.00)	1650.00 (2010.00)	11.70 (14.20)	7.67 (9.30)	550.00 (668.00)	1120.00 (1350.00)
22	19.90 (23.80)	13.10 (15.60)	949.00 (1140.00)	1630.00 (1930.00)	14.50 (17.50)	9.49 (11.50)	682.00 (825.00)	1180.00 (1410.00)
23	29.20 (32.20)	19.10 (21.10)	1390.00 (1540.00)	2060.00 (2280.00)	20.70 (22.70)	13.60 (14.90)	975.00 (1070.00)	1450.00 (1600.00)
24	35.60 (35.80)	23.30 (23.50)	1700.00 (1710.00)	2200.00 (2250.00)	24.20 (24.10)	15.90 (15.80)	1140.00 (1140.00)	1490.00 (1510.00)
25	35.90 (32.60)	23.60 (21.40)	1720.00 (1560.00)	1950.00 (1780.00)	24.80 (22.20)	16.30 (14.50)	1170.00 (1050.00)	1340.00 (1200.00)
26	52.10 (42.60)	34.20 (27.90)	2490.00 (2040.00)	2490.00 (2040.00)	34.30 (28.30)	22.50 (18.50)	1620.00 (1340.00)	1630.00 (1340.00)
27	69.60 (54.40)	45.60 (35.70)	3330.00 (2600.00)	2970.00 (2310.00)	45.50 (35.70)	29.80 (23.40)	2150.00 (1690.00)	1930.00 (1510.00)
28	94.00 (66.00)	61.60 (43.30)	4500.00 (3160.00)	3610.00 (2530.00)	60.50 (44.00)	39.70 (28.90)	2870.00 (2090.00)	2310.00 (1670.00)
Avg	18.7	12.2	1140.0	2030.0	13.0	8.6	754.0	1580.0
n	26	26	18	18	28	28	19	19
SD	22.0	14.4	1180.0	561.0	13.5	8.9	729.0	445.0
Min	4.0	2.6	226.0	1050.0	3.5	2.3	182.0	810.0
Max	94.0	61.6	4500.0	3610.0	60.5	39.7	2870.0	2370.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for March, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	115.00 (68.30)	75.30 (44.80)	5500.00 (3270.00)	4010.00 (2390.00)	82.40 (54.60)	54.00 (35.80)	3910.00 (2590.00)	2860.00 (1890.00)
2	96.40 (55.50)	63.20 (36.40)	4610.00 (2650.00)	3070.00 (1790.00)	89.40 (47.10)	58.60 (30.90)	4250.00 (2240.00)	2830.00 (1500.00)
3	83.00 (65.00)	54.40 (42.60)	3980.00 (3110.00)	2410.00 (1890.00)	83.00 (59.50)	54.40 (39.00)	3950.00 (2830.00)	2400.00 (1720.00)
4	94.40 (76.70)	61.90 (50.30)	4530.00 (3680.00)	2530.00 (2060.00)	90.40 (74.10)	59.30 (48.60)	4300.00 (3530.00)	2410.00 (1980.00)
5	94.60 (73.60)	62.00 (48.30)	4540.00 (3530.00)	2340.00 (1830.00)	90.40 (74.30)	59.30 (48.70)	4300.00 (3540.00)	2230.00 (1840.00)
6	91.10 (69.90)	59.70 (45.80)	4370.00 (3350.00)	2090.00 (1610.00)	86.80 (70.70)	56.90 (46.40)	4130.00 (3370.00)	1990.00 (1630.00)
7	101.00 (78.10)	66.10 (51.20)	4840.00 (3750.00)	2160.00 (1680.00)	90.70 (68.40)	59.40 (44.80)	4320.00 (3260.00)	1930.00 (1470.00)
8	110.00 (79.40)	72.00 (52.10)	5280.00 (3820.00)	2200.00 (1600.00)	95.90 (71.10)	62.90 (46.60)	4580.00 (3390.00)	1910.00 (1420.00)
9	120.00 (91.80)	78.70 (60.20)	5780.00 (4420.00)	2260.00 (1730.00)	101.00 (79.30)	66.00 (52.00)	4810.00 (3790.00)	1890.00 (1490.00)
10	122.00 (96.40)	79.80 (63.20)	5860.00 (4640.00)	2150.00 (1700.00)	117.00 (91.60)	76.60 (60.10)	5580.00 (4380.00)	2060.00 (1610.00)
11	130.00 (94.80)	85.40 (62.20)	6270.00 (4570.00)	2180.00 (1590.00)	134.00 (95.90)	87.90 (62.90)	6420.00 (4590.00)	2230.00 (1600.00)
12	140.00 (87.90)	91.90 (57.70)	6760.00 (4240.00)	2220.00 (1400.00)	143.00 (85.00)	94.10 (55.70)	6870.00 (4070.00)	2260.00 (1350.00)
13	148.00 (83.80)	97.10 (55.00)	7150.00 (4050.00)	2230.00 (1260.00)	140.00 (71.90)	91.80 (47.10)	6710.00 (3440.00)	2100.00 (1080.00)
14	152.00 (76.30)	99.80 (50.10)	7350.00 (3690.00)	2180.00 (1090.00)	167.00 (85.30)	109.00 (55.90)	8000.00 (4090.00)	2380.00 (1210.00)
15	150.00 (54.10)	98.10 (35.50)	7230.00 (2610.00)	2040.00 (744.00)	164.00 (70.80)	107.00 (46.40)	7860.00 (3400.00)	2230.00 (969.00)
16	167.00 (48.00)	110.00 (31.50)	8080.00 (2320.00)	2190.00 (635.00)	174.00 (55.90)	114.00 (36.70)	8360.00 (2690.00)	2270.00 (740.00)
17	151.00 (48.80)	99.10 (32.00)	7310.00 (2360.00)	1900.00 (628.00)	157.00 (38.20)	103.00 (25.00)	7570.00 (1840.00)	1970.00 (492.00)
18	127.00 (31.50)	83.40 (20.70)	6160.00 (1530.00)	1530.00 (382.00)	142.00 (33.80)	93.20 (22.10)	6840.00 (1630.00)	1700.00 (407.00)
19	136.00 (46.90)	88.90 (30.70)	6570.00 (2270.00)	1570.00 (551.00)	138.00 (39.70)	90.50 (26.10)	6650.00 (1920.00)	1590.00 (463.00)
20	135.00 (31.60)	88.50 (20.70)	6560.00 (1540.00)	1510.00 (353.00)	138.00 (41.00)	90.20 (26.90)	6640.00 (1980.00)	1530.00 (460.00)
21	128.00 (33.60)	84.20 (22.00)	6240.00 (1630.00)	1390.00 (365.00)	138.00 (38.40)	90.40 (25.20)	6670.00 (1860.00)	1480.00 (411.00)
22	115.00 (35.70)	75.40 (23.40)	5590.00 (1740.00)	1200.00 (380.00)	130.00 (50.80)	85.40 (33.30)	6300.00 (2460.00)	1360.00 (536.00)
23	104.00 (35.60)	68.30 (23.40)	5090.00 (1740.00)	1060.00 (362.00)	109.00 (42.60)	71.20 (27.90)	5270.00 (2060.00)	1100.00 (432.00)
24	122.00 (49.10)	79.90 (32.20)	5960.00 (2400.00)	1200.00 (484.00)	117.00 (49.10)	77.00 (32.20)	5700.00 (2380.00)	1150.00 (481.00)
25	128.00 (39.50)	84.10 (25.90)	6290.00 (1940.00)	1240.00 (384.00)	130.00 (42.40)	85.30 (27.80)	6330.00 (2070.00)	1250.00 (410.00)
26	104.00 (30.50)	68.00 (20.00)	5100.00 (1500.00)	976.00 (291.00)	118.00 (29.00)	77.10 (19.00)	5730.00 (1410.00)	1100.00 (276.00)
27	55.30 (53.50)	36.30 (35.10)			96.80 (23.00)	63.50 (15.10)	4720.00 (1120.00)	883.00 (213.00)
28	31.30 (63.20)	20.50 (41.40)			63.50 (46.70)	41.60 (30.60)		
29	18.00 (4.22)	11.80 (2.77)			19.70 (3.12)	12.90 (2.05)		
30	6.55 (10.60)	4.29 (6.98)			7.25 (10.80)	4.76 (7.06)		
31	0.49 (1.33)	0.32 (0.87)			2.55 (7.95)	1.67 (5.21)		
Avg	106.0	69.3	5880.0	1990.0	108.0	71.0	5810.0	1890.0
n	31	31	26	26	31	31	27	27
SD	42.3	27.7	1050.0	648.0	42.4	27.8	1330.0	517.0
Min	0.5	0.3	3980.0	976.0	2.6	1.7	3910.0	883.0
Max	167.0	110.0	8080.0	4010.0	174.0	114.0	8360.0	2860.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for April, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	0.23	(0.84)	0.15	(0.55)					0.11	(0.65)	0.07	(0.43)				
2	0.81	(2.39)	0.53	(1.57)					1.05	(1.74)	0.69	(1.14)				
3	-0.41	(1.66)	-0.27	(1.09)					-0.88	(1.29)	-0.58	(0.85)				
4	-3.79	(7.90)	-2.48	(5.18)					-2.21	(11.40)	-1.45	(7.46)				
5	-10.60	(12.80)	-6.98	(8.42)					-11.50	(12.50)	-7.56	(8.21)				
6	-8.51	(13.30)	-5.58	(8.69)					-11.20	(15.20)	-7.33	(9.96)				
7	-0.20	(2.55)	-0.13	(1.67)					-1.81	(2.78)	-1.19	(1.82)				
8	0.06	(0.31)	0.04	(0.20)					0.07	(0.19)	0.05	(0.12)				
9	0.12	(0.28)	0.08	(0.19)					0.18	(0.38)	0.12	(0.25)				
10	0.09	(0.18)	0.06	(0.12)												
11	0.16	(0.24)	0.11	(0.16)	7.50	(11.30)	53.70	(80.20)	0.18	(0.39)	0.12	(0.26)	8.49	(18.30)	61.20	(133.00)
12	0.31	(0.45)	0.21	(0.29)	14.80	(21.10)	125.00	(180.00)	0.36	(0.70)	0.24	(0.46)	17.00	(33.20)	143.00	(282.00)
13	0.75	(1.02)	0.49	(0.67)	35.20	(48.00)	316.00	(432.00)	0.79	(1.64)	0.52	(1.07)	37.30	(77.40)	335.00	(696.00)
14	0.83	(1.34)	0.55	(0.88)	39.40	(63.50)	345.00	(551.00)	0.85	(1.71)	0.56	(1.12)	40.00	(80.80)	349.00	(704.00)
15	1.33	(2.56)	0.87	(1.68)	63.00	(121.00)	489.00	(939.00)	1.24	(2.40)	0.81	(1.58)	58.80	(114.00)	457.00	(884.00)
16	1.83	(2.97)	1.20	(1.94)	86.70	(141.00)	565.00	(914.00)	1.67	(2.50)	1.09	(1.64)	79.20	(119.00)	517.00	(776.00)
17	2.47	(3.26)	1.62	(2.14)	118.00	(155.00)	630.00	(834.00)	2.03	(2.58)	1.33	(1.69)	96.50	(123.00)	519.00	(664.00)
18	2.55	(3.08)	1.67	(2.02)	121.00	(147.00)	526.00	(651.00)	2.39	(2.67)	1.57	(1.75)	114.00	(127.00)	496.00	(565.00)
19	3.23	(3.32)	2.12	(2.18)	153.00	(158.00)	547.00	(579.00)	2.62	(3.00)	1.72	(1.96)	125.00	(143.00)	444.00	(519.00)
20																
21																
22																
23																
24																
25																
26																
27																
28																
29	15.70	(12.20)	10.30	(7.97)	748.00	(581.00)	601.00	(466.00)	8.69	(7.12)	5.70	(4.67)	415.00	(340.00)	334.00	(273.00)
30	25.20	(17.10)	16.50	(11.20)	1200.00	(817.00)	875.00	(594.00)	11.00	(8.40)	7.21	(5.51)	526.00	(401.00)	382.00	(293.00)
Avg	1.5		1.0		236.0		461.0		0.3		0.2		138.0		367.0	
n	21		21		11		11		20		20		11		11	
SD	7.1		4.7		365.0		225.0		4.9		3.2		162.0		142.0	
Min	-10.6		-7.0		7.5		53.7		-11.5		-7.6		8.5		61.2	
Max	25.2		16.5		1200.0		875.0		11.0		7.2		526.0		519.0	

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for May, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	50.30 (33.60)	33.00 (22.00)	2410.00 (1610.00)	1590.00 (1040.00)	24.60 (17.90)	16.10 (11.70)	1180.00 (856.00)	776.00 (555.00)
2	109.00 (81.70)	71.80 (53.60)	5230.00 (3910.00)	3170.00 (2340.00)	59.00 (49.70)	38.70 (32.60)	2820.00 (2380.00)	1700.00 (1410.00)
3	157.00 (96.90)	103.00 (63.50)	7520.00 (4640.00)	4200.00 (2610.00)	105.00 (67.50)	68.70 (44.20)	5010.00 (3230.00)	2790.00 (1790.00)
4	152.00 (69.40)	99.40 (45.50)	7260.00 (3320.00)	3750.00 (1760.00)	130.00 (63.40)	85.40 (41.60)	6240.00 (3040.00)	3220.00 (1590.00)
5	133.00 (53.90)	87.20 (35.30)	6370.00 (2580.00)	3060.00 (1260.00)	138.00 (68.30)	90.20 (44.80)	6590.00 (3270.00)	3160.00 (1590.00)
6	116.00 (49.60)	76.10 (32.50)	5570.00 (2380.00)	2480.00 (1080.00)	125.00 (66.70)	81.80 (43.70)	5980.00 (3200.00)	2670.00 (1450.00)
7	107.00 (46.70)	70.00 (30.60)	5120.00 (2240.00)	2140.00 (952.00)	120.00 (55.80)	79.00 (36.60)	5780.00 (2680.00)	2410.00 (1130.00)
8	99.90 (39.00)	65.50 (25.60)	4800.00 (1870.00)	1880.00 (747.00)	111.00 (50.20)	72.90 (32.90)	5340.00 (2410.00)	2090.00 (962.00)
9	100.00 (38.90)	65.70 (25.50)	4810.00 (1870.00)	1780.00 (706.00)	110.00 (43.00)	72.30 (28.20)	5300.00 (2070.00)	1950.00 (778.00)
10	78.00 (21.90)	51.20 (14.40)	3750.00 (1050.00)	1310.00 (377.00)	115.00 (30.60)	75.30 (20.10)	5520.00 (1470.00)	1920.00 (518.00)
11	99.00 (30.10)	64.90 (19.70)	4770.00 (1450.00)	1560.00 (471.00)	113.00 (29.60)	73.80 (19.40)	5420.00 (1420.00)	1780.00 (473.00)
12	128.00 (29.40)	83.90 (19.30)	6160.00 (1420.00)	1920.00 (448.00)	127.00 (30.50)	83.20 (20.00)	6110.00 (1470.00)	1910.00 (459.00)
13	126.00 (25.90)	82.90 (17.00)	6100.00 (1250.00)	1810.00 (386.00)	131.00 (34.30)	85.70 (22.50)	6300.00 (1650.00)	1870.00 (505.00)
14	130.00 (16.50)	85.50 (10.80)	6290.00 (796.00)	1780.00 (222.00)	133.00 (26.40)	87.30 (17.30)	6420.00 (1270.00)	1820.00 (363.00)
15	169.00 (24.20)	111.00 (15.90)	8180.00 (1170.00)	2210.00 (314.00)	167.00 (19.70)	110.00 (12.90)	8090.00 (953.00)	2190.00 (251.00)
16	166.00 (28.90)	109.00 (18.90)	8020.00 (1400.00)	2070.00 (343.00)	172.00 (26.30)	113.00 (17.20)	8330.00 (1270.00)	2160.00 (311.00)
17	168.00 (23.70)	110.00 (15.50)	8130.00 (1150.00)	2020.00 (271.00)	181.00 (27.20)	119.00 (17.80)	8790.00 (1320.00)	2180.00 (317.00)
18	144.00 (21.90)	94.70 (14.40)	6990.00 (1060.00)	1670.00 (243.00)	158.00 (22.80)	103.00 (14.90)	7640.00 (1100.00)	1830.00 (250.00)
19	122.00 (15.10)	80.30 (9.88)	5930.00 (730.00)	1370.00 (166.00)	133.00 (17.70)	87.30 (11.60)	6470.00 (858.00)	1490.00 (196.00)
20	107.00 (11.10)	70.10 (7.30)	5180.00 (539.00)	1150.00 (119.00)	117.00 (14.50)	76.80 (9.50)	5700.00 (705.00)	1270.00 (158.00)
21	127.00 (15.50)	83.20 (10.20)	6160.00 (752.00)	1320.00 (155.00)	125.00 (13.70)	82.30 (8.96)	6140.00 (668.00)	1320.00 (142.00)
22	136.00 (18.40)	89.50 (12.00)	6640.00 (894.00)	1380.00 (180.00)	131.00 (16.60)	85.80 (10.90)	6420.00 (816.00)	1340.00 (167.00)
23	127.00 (15.80)	83.50 (10.40)	6200.00 (770.00)	1250.00 (157.00)	126.00 (14.20)	82.90 (9.29)	6220.00 (697.00)	1260.00 (139.00)
24	117.00 (12.20)	76.90 (8.02)	5720.00 (596.00)	1120.00 (117.00)	120.00 (10.30)	78.50 (6.77)	5910.00 (510.00)	1160.00 (103.00)
25	121.00 (15.20)	79.30 (10.00)	5900.00 (744.00)	1130.00 (140.00)	119.00 (13.80)	77.70 (9.08)	5860.00 (685.00)	1120.00 (130.00)
26	99.60 (23.80)	65.30 (15.60)	4870.00 (1160.00)	909.00 (221.00)	103.00 (25.00)	67.80 (16.40)	5120.00 (1240.00)	958.00 (236.00)
27	64.50 (41.70)	42.30 (27.30)			60.20 (24.80)	39.50 (16.20)		
28	65.90 (51.00)	43.20 (33.40)			68.00 (45.10)	44.60 (29.50)		
29	59.00 (21.90)	38.70 (14.30)			63.50 (13.80)	41.70 (9.03)		
30	21.60 (12.00)	14.20 (7.84)			25.10 (9.22)	16.50 (6.05)		
31	8.05 (2.49)	5.28 (1.63)			11.20 (3.16)	7.37 (2.07)		
Avg	110.0	72.1	5930.0	1920.0	110.0	72.4	5950.0	1860.0
n	31	31	26	26	31	31	26	26
SD	39.4	25.9	1310.0	805.0	41.1	26.9	1500.0	627.0
Min	8.1	5.3	2410.0	909.0	11.2	7.4	1180.0	776.0
Max	169.0	111.0	8180.0	4200.0	181.0	119.0	8790.0	3220.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for June, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	9.16 (6.80)	6.01 (4.46)			10.60 (19.40)	6.93 (12.70)		
2								
3								
4								
5	4.45 (9.16)	2.92 (6.00)	210.00 (432.00)	1550.00 (3190.00)	8.60 (11.90)	5.64 (7.80)		
6	5.66 (10.10)	3.71 (6.64)	267.00 (478.00)	2270.00 (4050.00)	9.48 (11.80)	6.22 (7.76)	448.00 (559.00)	3300.00 (4110.00)
7	6.69 (9.89)	4.38 (6.49)	316.00 (468.00)	2840.00 (4200.00)	10.40 (13.60)	6.79 (8.89)	490.00 (642.00)	4150.00 (5480.00)
8	6.29 (8.48)	4.12 (5.56)	298.00 (402.00)	2570.00 (3510.00)	8.90 (12.40)	5.84 (8.12)	421.00 (586.00)	3790.00 (5250.00)
9	6.09 (7.23)	4.00 (4.74)	289.00 (343.00)	2210.00 (2630.00)	8.65 (10.20)	5.67 (6.66)	410.00 (482.00)	3550.00 (4180.00)
10	6.38 (7.30)	4.18 (4.79)	303.00 (346.00)	1950.00 (2240.00)	8.51 (9.21)	5.58 (6.04)	404.00 (437.00)	3100.00 (3410.00)
11	5.96 (6.68)	3.91 (4.38)	283.00 (317.00)	1480.00 (1700.00)	7.66 (7.52)	5.02 (4.93)	363.00 (357.00)	2340.00 (2340.00)
12	6.32 (6.21)	4.15 (4.07)	300.00 (294.00)	1260.00 (1260.00)	8.35 (7.66)	5.47 (5.02)	396.00 (363.00)	2070.00 (1910.00)
13	7.80 (7.13)	5.11 (4.67)	370.00 (338.00)	1270.00 (1170.00)	9.03 (8.44)	5.92 (5.54)	429.00 (401.00)	1810.00 (1710.00)
14	8.86 (9.33)	5.81 (6.12)	421.00 (443.00)	1190.00 (1260.00)	8.16 (9.38)	5.35 (6.15)	387.00 (446.00)	1340.00 (1540.00)
15	10.50 (11.60)	6.87 (7.61)	498.00 (551.00)	1170.00 (1310.00)	8.97 (11.40)	5.88 (7.47)	426.00 (541.00)	1210.00 (1540.00)
16	11.10 (9.86)	7.26 (6.46)	526.00 (468.00)	1050.00 (957.00)	9.34 (9.91)	6.12 (6.50)	444.00 (471.00)	1050.00 (1140.00)
17	10.50 (7.89)	6.88 (5.18)	499.00 (375.00)	845.00 (651.00)	8.98 (8.44)	5.89 (5.53)	427.00 (401.00)	850.00 (815.00)
18	11.00 (7.49)	7.25 (4.91)	526.00 (356.00)	768.00 (535.00)	9.56 (8.35)	6.27 (5.47)	455.00 (397.00)	771.00 (690.00)
19	12.20 (7.63)	7.97 (5.00)	579.00 (363.00)	736.00 (474.00)	11.10 (8.15)	7.31 (5.34)	530.00 (388.00)	774.00 (576.00)
20	12.50 (8.19)	8.20 (5.37)	596.00 (390.00)	664.00 (436.00)	10.70 (8.32)	7.03 (5.45)	510.00 (396.00)	647.00 (507.00)
21	16.40 (10.00)	10.70 (6.59)	780.00 (479.00)	771.00 (475.00)	13.40 (9.55)	8.76 (6.26)	637.00 (455.00)	710.00 (508.00)
22	23.00 (14.00)	15.10 (9.19)	1100.00 (669.00)	971.00 (603.00)	17.00 (12.10)	11.20 (7.92)	812.00 (576.00)	804.00 (583.00)
23	23.40 (13.70)	15.40 (8.99)	1120.00 (655.00)	893.00 (544.00)	18.60 (10.50)	12.20 (6.92)	889.00 (504.00)	789.00 (465.00)
24	26.30 (9.49)	17.30 (6.22)	1260.00 (453.00)	906.00 (336.00)	22.30 (9.09)	14.60 (5.96)	1070.00 (434.00)	846.00 (351.00)
25	24.90 (11.70)	16.30 (7.64)	1190.00 (557.00)	782.00 (371.00)	26.50 (13.30)	17.40 (8.74)	1270.00 (638.00)	915.00 (464.00)
26	30.80 (12.90)	20.20 (8.49)	1480.00 (620.00)	886.00 (380.00)	30.70 (13.40)	20.10 (8.77)	1470.00 (641.00)	965.00 (431.00)
27	52.30 (13.60)	34.30 (8.91)	2510.00 (652.00)	1380.00 (349.00)	47.20 (14.00)	31.00 (9.18)	2270.00 (672.00)	1360.00 (395.00)
28	70.50 (20.40)	46.20 (13.40)	3380.00 (981.00)	1720.00 (491.00)	66.40 (15.60)	43.50 (10.20)	3190.00 (748.00)	1760.00 (392.00)
29	76.40 (19.20)	50.10 (12.60)	3670.00 (921.00)	1740.00 (421.00)	78.50 (20.40)	51.50 (13.40)	3780.00 (981.00)	1930.00 (488.00)
30	73.50 (22.60)	48.20 (14.80)	3530.00 (1090.00)	1560.00 (471.00)	78.80 (18.40)	51.60 (12.10)	3790.00 (885.00)	1790.00 (408.00)
Avg	20.7	13.6	1010.0	1360.0	20.6	13.5	1030.0	1700.0
n	27	27	26	26	27	27	25	25
SD	21.3	14.0	1040.0	590.0	21.0	13.8	1040.0	1060.0
Min	4.5	2.9	210.0	664.0	7.7	5.0	363.0	647.0
Max	76.4	50.1	3670.0	2840.0	78.8	51.6	3790.0	4150.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for July, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	µg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	95.30 (23.00)	62.50 (15.10)	4590.00 (1110.00)	1890.00 (446.00)	99.50 (27.60)	65.20 (18.10)	4790.00 (1330.00)	2110.00 (575.00)
2	114.00 (25.60)	74.70 (16.80)	5500.00 (1240.00)	2130.00 (476.00)	112.00 (22.80)	73.60 (15.00)	5420.00 (1100.00)	2240.00 (459.00)
3	117.00 (24.90)	76.70 (16.30)	5650.00 (1200.00)	2060.00 (429.00)	105.00 (18.60)	69.20 (12.20)	5090.00 (899.00)	1980.00 (350.00)
4	137.00 (31.90)	89.60 (20.90)	6600.00 (1540.00)	2280.00 (528.00)	116.00 (23.50)	76.20 (15.40)	5620.00 (1140.00)	2050.00 (407.00)
5	142.00 (28.40)	93.30 (18.60)	6880.00 (1380.00)	2250.00 (450.00)	124.00 (23.40)	81.10 (15.40)	5990.00 (1130.00)	2060.00 (392.00)
6	131.00 (29.90)	86.00 (19.60)	6350.00 (1450.00)	1970.00 (458.00)	114.00 (28.40)	74.70 (18.60)	5520.00 (1370.00)	1800.00 (455.00)
7	115.00 (25.90)	75.50 (17.00)	5580.00 (1260.00)	1650.00 (380.00)	95.90 (19.50)	62.90 (12.80)	4650.00 (945.00)	1440.00 (298.00)
8	116.00 (17.70)	76.40 (11.60)	5650.00 (858.00)	1590.00 (238.00)	111.00 (17.60)	72.80 (11.50)	5390.00 (852.00)	1590.00 (243.00)
9	128.00 (17.90)	84.20 (11.70)	6240.00 (870.00)	1680.00 (230.00)	120.00 (15.70)	78.60 (10.30)	5820.00 (764.00)	1640.00 (211.00)
10	130.00 (12.00)	85.00 (7.86)	6300.00 (583.00)	1620.00 (150.00)	137.00 (16.70)	89.60 (11.00)	6640.00 (813.00)	1790.00 (212.00)
11	118.00 (11.60)	77.20 (7.58)	5730.00 (563.00)	1420.00 (128.00)	130.00 (13.10)	85.30 (8.60)	6330.00 (638.00)	1630.00 (160.00)
12	115.00 (13.10)	75.30 (8.61)	5590.00 (639.00)	1330.00 (144.00)	124.00 (10.10)	81.10 (6.63)	6030.00 (493.00)	1490.00 (120.00)
13	125.00 (18.90)	82.10 (12.40)	6110.00 (920.00)	1400.00 (202.00)	132.00 (21.20)	86.40 (13.90)	6430.00 (1040.00)	1530.00 (239.00)
14	169.00 (180.00)	111.00 (118.00)	8250.00 (8780.00)	1820.00 (1940.00)	127.00 (47.50)	83.30 (31.20)	6230.00 (2330.00)	1420.00 (524.00)
15								
16								
17	181.00 (29.80)	119.00 (19.60)	8910.00 (1470.00)	1790.00 (285.00)	181.00 (28.90)	118.00 (18.90)	8910.00 (1420.00)	1850.00 (284.00)
18	157.00 (24.20)	103.00 (15.90)	7700.00 (1190.00)	1510.00 (224.00)	164.00 (24.20)	107.00 (15.90)	8110.00 (1200.00)	1630.00 (231.00)
19	164.00 (25.50)	107.00 (16.70)	8070.00 (1260.00)	1540.00 (231.00)	173.00 (24.00)	114.00 (15.80)	8590.00 (1190.00)	1680.00 (223.00)
20	104.00 (37.20)	68.00 (24.40)	5140.00 (1850.00)	958.00 (349.00)	113.00 (37.60)	74.10 (24.70)	5630.00 (1880.00)	1080.00 (365.00)
21	98.00 (47.00)	64.30 (30.80)						
22	60.20 (58.80)	39.50 (38.60)			49.40 (55.00)	32.40 (36.10)		
23	36.70 (9.98)	24.00 (6.54)			37.00 (9.02)	24.20 (5.91)		
24								
25								
26								
27								
28	7.03 (9.68)	4.61 (6.35)			6.69 (9.75)	4.39 (6.40)		
29	6.22 (7.83)	4.08 (5.13)			6.03 (8.88)	3.96 (5.82)		
30	5.59 (7.03)	3.66 (4.61)			6.00 (7.13)	3.93 (4.68)		
31	5.00 (7.84)	3.28 (5.14)	259.00 (407.00)	1940.00 (3000.00)	5.60 (7.90)	3.67 (5.18)	291.00 (410.00)	2090.00 (2940.00)
Avg	103.0	67.6	6060.0	1730.0	99.5	65.3	5870.0	1740.0
n	25	25	19	19	24	24	19	19
SD	51.9	34.0	1760.0	329.0	51.7	33.9	1750.0	289.0
Min	5.0	3.3	259.0	958.0	5.6	3.7	291.0	1080.0
Max	181.0	119.0	8910.0	2280.0	181.0	118.0	8910.0	2240.0

US EPA ARCHIVE DOCUMENT

Table E9. Daily means (SD) of H2S emissions at Site CA1B for August, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	5.07	(7.09)	3.32	(4.65)	263.00	(368.00)	2250.00	(3090.00)	5.30	(7.90)	3.48	(5.18)	276.00	(411.00)	2310.00	(3390.00)
2	4.62	(5.17)	3.03	(3.39)	240.00	(269.00)	2160.00	(2410.00)	5.05	(6.34)	3.31	(4.16)	263.00	(330.00)	2360.00	(2950.00)
3	4.29	(4.76)	2.82	(3.12)	223.00	(247.00)	1920.00	(2140.00)	4.57	(5.06)	3.00	(3.32)	238.00	(264.00)	2080.00	(2310.00)
4																
5																
6																
7																
8	4.25	(4.79)	2.78	(3.14)	222.00	(250.00)	751.00	(857.00)	3.35	(4.31)	2.20	(2.83)	176.00	(226.00)	624.00	(816.00)
9	5.14	(5.03)	3.37	(3.30)	268.00	(263.00)	751.00	(753.00)	4.85	(5.86)	3.18	(3.84)	254.00	(307.00)	736.00	(886.00)
10	5.20	(5.04)	3.41	(3.30)	272.00	(263.00)	631.00	(637.00)	9.50	(8.05)	6.23	(5.28)	498.00	(422.00)	1190.00	(1040.00)
11	5.21	(3.74)	3.42	(2.45)	273.00	(195.00)	530.00	(381.00)	11.50	(7.19)	7.55	(4.71)	604.00	(377.00)	1220.00	(784.00)
12	7.62	(4.11)	5.00	(2.69)	399.00	(215.00)	662.00	(362.00)	11.20	(6.34)	7.33	(4.15)	587.00	(332.00)	1010.00	(581.00)
13	6.65	(3.90)	4.36	(2.56)	348.00	(204.00)	501.00	(300.00)	8.52	(5.07)	5.59	(3.32)	448.00	(266.00)	664.00	(405.00)
14	6.57	(4.04)	4.31	(2.65)	344.00	(212.00)	431.00	(270.00)	7.13	(4.64)	4.68	(3.04)	375.00	(244.00)	484.00	(319.00)
15	7.57	(4.27)	4.97	(2.80)	397.00	(224.00)	437.00	(249.00)	7.08	(4.52)	4.64	(2.96)	372.00	(237.00)	420.00	(273.00)
16																
17																
18	9.40	(4.55)	6.17	(2.98)	493.00	(239.00)	388.00	(191.00)	8.11	(4.49)	5.32	(2.95)	427.00	(236.00)	343.00	(192.00)
19	13.60	(4.95)	8.89	(3.25)	711.00	(260.00)	506.00	(187.00)	11.50	(4.95)	7.57	(3.24)	607.00	(261.00)	441.00	(192.00)
20	18.70	(7.14)	12.20	(4.68)	980.00	(375.00)	636.00	(244.00)	15.10	(6.49)	9.91	(4.26)	795.00	(342.00)	526.00	(226.00)
21	29.30	(8.39)	19.20	(5.50)	1540.00	(441.00)	914.00	(259.00)	22.60	(8.27)	14.80	(5.42)	1190.00	(435.00)	720.00	(261.00)
22	48.60	(12.40)	31.90	(8.10)	2550.00	(649.00)	1390.00	(332.00)	38.50	(12.40)	25.30	(8.13)	2030.00	(653.00)	1120.00	(344.00)
23	56.70	(17.80)	37.20	(11.70)	2980.00	(936.00)	1510.00	(467.00)	48.50	(17.00)	31.80	(11.10)	2550.00	(895.00)	1310.00	(457.00)
24	70.30	(33.30)	46.10	(21.90)	3700.00	(1750.00)	1740.00	(836.00)	59.00	(28.30)	38.70	(18.60)	3110.00	(1490.00)	1490.00	(721.00)
25	77.10	(31.70)	50.60	(20.80)	4060.00	(1670.00)	1780.00	(738.00)	69.60	(33.00)	45.70	(21.60)	3670.00	(1740.00)	1630.00	(783.00)
26	89.00	(37.20)	58.30	(24.40)	4680.00	(1960.00)	1920.00	(812.00)	85.50	(35.80)	56.10	(23.50)	4510.00	(1890.00)	1880.00	(792.00)
27	94.90	(31.20)	62.20	(20.50)	5000.00	(1650.00)	1920.00	(637.00)	84.00	(31.20)	55.10	(20.40)	4440.00	(1650.00)	1730.00	(647.00)
28	117.00	(30.00)	76.90	(19.70)	6180.00	(1580.00)	2240.00	(588.00)	109.00	(24.30)	71.20	(15.90)	5730.00	(1280.00)	2110.00	(480.00)
29	111.00	(17.60)	72.80	(11.50)	5850.00	(927.00)	2000.00	(306.00)	110.00	(18.20)	71.90	(11.90)	5800.00	(962.00)	2010.00	(327.00)
30	104.00	(13.60)	67.90	(8.90)	5460.00	(716.00)	1770.00	(232.00)	107.00	(19.00)	70.40	(12.50)	5680.00	(1010.00)	1860.00	(329.00)
31	124.00	(19.40)	81.30	(12.70)	6550.00	(1020.00)	2020.00	(305.00)	120.00	(22.60)	78.90	(14.80)	6370.00	(1200.00)	1980.00	(371.00)
Avg	41.0		26.9		2160.0		1270.0		38.7		25.3		2040.0		1290.0	
n	25		25		25		25		25		25		25		25	
SD	42.6		27.9		2250.0		682.0		40.3		26.4		2130.0		654.0	
Min	4.3		2.8		222.0		388.0		3.4		2.2		176.0		343.0	
Max	124.0		81.3		6550.0		2250.0		120.0		78.9		6370.0		2360.0	

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for September, 2009.

Day	House 10				House 12			
	g d^{-1}	mg $d^{-1}m^{-2}$	μg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$	g d^{-1}	mg $d^{-1}m^{-2}$	μg $d^{-1}hd^{-1}$	mg $d^{-1}AU^{-1}$
1	145.00 (23.00)	94.80 (15.10)	7640.00 (1210.00)	2240.00 (332.00)	150.00 (24.60)	98.00 (16.10)	7920.00 (1300.00)	2340.00 (365.00)
2	158.00 (21.70)	103.00 (14.30)	8340.00 (1150.00)	2330.00 (304.00)	165.00 (24.10)	108.00 (15.80)	8730.00 (1280.00)	2470.00 (341.00)
3	133.00 (13.20)	87.00 (8.63)	7020.00 (696.00)	1880.00 (180.00)	142.00 (16.80)	93.40 (11.00)	7550.00 (890.00)	2040.00 (231.00)
4	118.00 (17.90)	77.40 (11.70)	6250.00 (945.00)	1600.00 (239.00)	124.00 (17.70)	81.20 (11.60)	6570.00 (937.00)	1700.00 (243.00)
5	159.00 (31.80)	105.00 (20.90)	8440.00 (1690.00)	2080.00 (396.00)	146.00 (28.70)	96.00 (18.80)	7770.00 (1520.00)	1930.00 (362.00)
6	129.00 (16.70)	84.30 (11.00)	6820.00 (886.00)	1620.00 (215.00)	140.00 (21.10)	91.50 (13.90)	7410.00 (1120.00)	1770.00 (273.00)
7	127.00 (28.60)	83.20 (18.80)	6730.00 (1520.00)	1540.00 (338.00)	138.00 (25.20)	90.30 (16.50)	7320.00 (1340.00)	1680.00 (296.00)
8	120.00 (19.50)	78.60 (12.80)	6360.00 (1040.00)	1400.00 (222.00)	129.00 (19.40)	84.40 (12.70)	6850.00 (1030.00)	1520.00 (220.00)
9								
10	86.10 (46.00)	56.50 (30.10)	4580.00 (2450.00)	949.00 (505.00)				
11	125.00 (25.90)	81.70 (17.00)	6640.00 (1380.00)	1330.00 (268.00)	128.00 (24.70)	83.70 (16.20)	6820.00 (1320.00)	1380.00 (257.00)
12	116.00 (17.80)	76.00 (11.70)	6190.00 (952.00)	1210.00 (186.00)	120.00 (23.00)	78.80 (15.10)	6430.00 (1230.00)	1260.00 (242.00)
13	85.60 (19.60)	56.20 (12.90)	4590.00 (1050.00)	875.00 (204.00)				
14	67.80 (23.80)	44.50 (15.60)			70.70 (27.50)	46.30 (18.10)		
15	30.70 (32.50)	20.10 (21.30)			37.30 (28.00)	24.40 (18.40)		
16	5.59 (5.64)	3.66 (3.70)			7.41 (8.55)	4.86 (5.61)		
17	4.04 (1.83)	2.65 (1.20)			5.10 (3.72)	3.34 (2.44)		
18	2.18 (3.55)	1.43 (2.33)			3.22 (5.58)	2.11 (3.66)		
19	2.60 (9.09)	1.70 (5.96)			0.05 (1.06)	0.03 (0.69)		
20	0.60 (0.75)	0.40 (0.49)			0.48 (1.07)	0.32 (0.70)		
21	-0.31 (0.97)	-0.21 (0.64)			-0.46 (0.91)	-0.30 (0.59)		
22	-4.47 (6.53)	-2.93 (4.28)			-7.51 (10.70)	-4.93 (7.01)		
23	0.28 (0.55)	0.19 (0.36)			0.13 (0.52)	0.08 (0.34)		
24	0.32 (0.43)	0.21 (0.28)			0.15 (0.34)	0.10 (0.22)		
25	0.16 (0.57)	0.11 (0.37)			0.17 (0.44)	0.11 (0.29)		
26	-2.36 (3.30)	-1.55 (2.16)			-2.23 (3.08)	-1.46 (2.02)		
27	0.06 (1.54)	0.04 (1.01)	3.04 (79.80)	14.80 (575.00)	-0.08 (1.14)	-0.05 (0.75)	-4.09 (59.00)	-37.60 (424.00)
28	0.23 (0.46)	0.15 (0.30)	12.00 (23.60)	103.00 (204.00)	0.17 (0.44)	0.11 (0.29)	8.78 (22.90)	75.40 (198.00)
29	0.69 (0.88)	0.45 (0.57)	35.80 (45.60)	322.00 (410.00)	0.71 (1.23)	0.47 (0.81)	37.00 (63.90)	332.00 (574.00)
30	0.93 (1.18)	0.61 (0.77)	48.20 (61.40)	418.00 (535.00)	0.95 (1.57)	0.62 (1.03)	49.20 (81.60)	428.00 (712.00)
Avg	55.5	36.4	4980.0	1240.0	55.4	36.4	5250.0	1350.0
n	29	29	16	16	27	27	14	14
SD	61.5	40.3	3030.0	717.0	65.5	43.0	3350.0	799.0
Min	-4.5	-2.9	3.0	14.8	-7.5	-4.9	-4.1	-37.6
Max	159.0	105.0	8440.0	2330.0	165.0	108.0	8730.0	2470.0

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Table E9. Daily means (SD) of H2S emissions at Site CA1B for October, 2009.

Day	House 10								House 12							
	g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$		g d^{-1}		mg $d^{-1}m^{-2}$		µg $d^{-1}hd^{-1}$		mg $d^{-1}AU^{-1}$	
1	0.36	(1.58)	0.23	(1.04)	18.50	(82.40)	132.00	(599.00)	0.46	(1.52)	0.30	(1.00)	23.80	(79.20)	173.00	(582.00)
2	1.77	(2.25)	1.16	(1.48)	92.40	(118.00)	593.00	(754.00)	2.10	(2.72)	1.38	(1.78)	110.00	(142.00)	709.00	(916.00)
3	1.74	(1.78)	1.14	(1.17)	90.80	(92.70)	479.00	(499.00)	2.32	(2.40)	1.52	(1.57)	121.00	(125.00)	642.00	(676.00)
4	1.40	(1.52)	0.92	(1.00)	73.20	(79.50)	307.00	(329.00)	1.74	(1.89)	1.14	(1.24)	90.90	(98.60)	385.00	(414.00)
5	2.04	(2.36)	1.34	(1.55)	106.00	(123.00)	365.00	(416.00)	1.96	(2.46)	1.29	(1.61)	102.00	(128.00)	355.00	(439.00)
6	2.61	(2.88)	1.71	(1.89)	136.00	(151.00)	387.00	(437.00)	2.31	(2.81)	1.52	(1.85)	121.00	(147.00)	344.00	(424.00)
7																
8	3.56	(3.30)	2.33	(2.16)	186.00	(172.00)	369.00	(346.00)	2.65	(2.59)	1.74	(1.70)	138.00	(135.00)	276.00	(272.00)
9	3.32	(3.36)	2.18	(2.21)	174.00	(176.00)	294.00	(304.00)	2.65	(2.79)	1.74	(1.83)	139.00	(146.00)	237.00	(253.00)
10	4.15	(3.94)	2.72	(2.58)	217.00	(206.00)	316.00	(300.00)	3.26	(3.25)	2.14	(2.13)	170.00	(170.00)	250.00	(249.00)
11	6.34	(6.11)	4.16	(4.01)	332.00	(320.00)	420.00	(403.00)	5.60	(5.96)	3.68	(3.91)	293.00	(312.00)	372.00	(393.00)
12	9.64	(8.31)	6.32	(5.45)	505.00	(435.00)	561.00	(484.00)	8.72	(8.66)	5.72	(5.68)	456.00	(453.00)	509.00	(504.00)
13																
14																
15																
16																
17																
18																
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21																
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30																
31																
Avg	3.4		2.2		175.0		384.0		3.1		2.0		160.0		387.0	
n	11		11		11		11		11		11		11		11	
SD	2.5		1.7		131.0		124.0		2.2		1.4		112.0		161.0	
Min	0.4		0.2		18.5		132.0		0.5		0.3		23.8		173.0	
Max	9.6		6.3		505.0		593.0		8.7		5.7		456.0		709.0	

Table E10. NH3 concentrations

Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for December, 2007.

Day	Ambient		House 10		House 12	
	Mean (SD)		Mean (SD)		Mean (SD)	
	ppm	mg dsm^{-3}	ppm	mg dsm^{-3}	ppm	mg dsm^{-3}
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29	-0.1 (0.2)	-0.1 (0.1)	38.5 (1.8)	27.6 (1.3)	35.5 (1.6)	25.5 (1.1)
30	0.2 (0.2)	0.1 (0.1)	41.8 (1.9)	30.0 (1.4)	36.6 (2.2)	26.3 (1.6)
31	0.3 (0.4)	0.2 (0.3)	41.2 (1.9)	29.5 (1.4)	104.0 (104.0)	37.2 (29.8)
Avg	0.2	0.1	40.5	29	58.8	29.7
n	3	3	3	3	3	3
SD	0.2	0.1	1.5	1.1	32.1	5.4
Min	-0.1	-0.1	38.5	27.6	35.5	25.5
Max	0.3	0.2	41.8	30.0	104.0	37.2

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for January, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	1.0	(0.7)	0.7	(0.5)	38.6	(8.9)	27.6	(6.4)	148.0	(159.0)		
2	0.4	(0.4)	0.3	(0.3)	27.4	(10.4)	19.5	(7.5)	76.2	(61.9)		
3	0.7	(0.4)	0.5	(0.3)	159.0	(130.0)	115.0	(93.8)	104.0	(60.7)		
4	0.8	(0.2)	0.5	(0.1)	208.0	(56.9)	149.0	(41.0)	149.0	(28.2)	108.0	(20.8)
5	1.0	(0.2)	0.7	(0.1)	219.0	(35.8)	157.0	(25.8)	170.0	(14.4)	122.0	(10.4)
6	0.9	(0.1)	0.6	(0.1)	194.0	(6.4)	139.0	(4.6)	162.0	(7.2)	116.0	(5.2)
7	0.8	(0.2)	0.5	(0.1)	160.0	(8.7)	115.0	(6.3)	139.0	(5.8)	99.4	(4.2)
8	0.4	(0.1)	0.3	(0.1)	129.0	(7.0)	92.9	(5.0)	122.0	(2.7)	87.4	(1.9)
9	0.7	(0.3)	0.5	(0.2)	123.0	(3.8)	88.9	(2.8)	114.0	(3.4)	82.1	(2.4)
10	0.5	(0.0)	0.3	(0.0)	110.0	(6.3)	79.2	(4.6)	101.0	(5.8)		
11	0.4	(0.1)	0.3	(0.1)	90.1	(5.1)	64.8	(3.7)	81.9	(4.6)	57.9	(2.8)
12	0.3	(0.0)	0.2	(0.0)	74.4	(9.2)	53.5	(6.6)	67.6	(5.8)	48.7	(4.2)
13	0.2	(0.1)	0.1	(0.1)	60.8	(8.3)	43.7	(6.0)	53.4	(7.6)	38.4	(5.5)
14	0.0	(0.1)	0.0	(0.1)	50.5	(7.6)	36.3	(5.5)	43.5	(6.0)	31.3	(4.4)
15	0.0	(0.1)	0.0	(0.0)	57.6	(5.1)	41.6	(3.7)	48.1	(4.6)	34.7	(3.3)
16	0.0	(0.0)	0.0	(0.0)	48.3	(7.3)	34.8	(5.3)	40.3	(5.3)	29.0	(3.8)
17	0.0	(0.1)	0.0	(0.1)	41.7	(5.3)	30.0	(3.8)	33.7	(6.4)	24.2	(4.6)
18	-0.1	(0.0)	0.0	(0.0)	42.2	(8.0)	30.4	(5.8)	32.0	(6.0)	23.0	(4.3)
19	0.0	(0.1)	0.0	(0.1)	37.3	(7.8)	26.8	(5.6)	27.5	(5.5)	19.8	(4.0)
20	-0.1	(0.1)	0.0	(0.0)	34.7	(3.5)	25.0	(2.6)	25.1	(2.9)	18.0	(2.1)
21	0.0	(0.1)	0.0	(0.1)	34.7	(3.3)	25.0	(2.4)	23.2	(2.7)	16.7	(1.9)
22	-0.2	(0.0)	-0.1	(0.0)	30.1	(2.7)	21.7	(2.0)	19.7	(2.8)	14.2	(2.0)
23	-0.2	(0.0)	-0.1	(0.0)	30.2	(2.3)	21.7	(1.6)	18.0	(2.0)	12.9	(1.4)
24	-0.3	(0.0)	-0.2	(0.0)	31.9	(2.5)	22.9	(1.8)	18.7	(2.2)	13.4	(1.6)
25	1.9	(1.3)	1.3	(0.9)	31.4	(3.0)	22.6	(2.1)	20.5	(2.0)	14.7	(1.4)
26	4.0	(0.9)	2.9	(0.7)	29.1	(1.8)	20.9	(1.3)	22.6	(2.0)	16.2	(1.5)
27	5.3	(0.7)	3.8	(0.5)	30.5	(1.8)	21.9	(1.3)	24.2	(2.0)	17.4	(1.5)
28	1.6	(1.7)			30.9	(2.5)	22.2	(1.8)	25.7	(2.3)	18.4	(1.7)
29	-0.3	(0.0)	-0.2	(0.0)	32.6	(2.6)	23.4	(1.9)	29.0	(3.8)	20.8	(2.7)
30	-0.2	(0.1)	-0.1	(0.0)	32.8	(3.0)	23.5	(2.2)	27.9	(3.2)	20.0	(2.3)
31	-0.2	(0.0)	-0.2	(0.0)	36.8	(2.7)	26.4	(1.9)	29.2	(2.1)	20.9	(1.5)
Avg	0.6		0.4		72.9		52.4		64.4		41.7	
n	31		30		31		31		31		27	
SD	1.2		0.9		58.1		41.8		48.9		34.8	
Min	-0.3		-0.2		27.4		19.5		18.0		12.9	
Max	5.3		3.8		219.0		157.0		170.0		122.0	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for February, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1					37.9	(3.4)	27.2	(2.4)	30.0	(3.0)	21.5	(2.2)
2												
3												
4												
5	-0.1	(0.1)	-0.1	(0.0)	38.3	(5.9)	27.5	(4.2)	31.6	(4.6)	22.7	(3.3)
6	-0.1	(0.1)	0.0	(0.1)	33.8	(5.7)	24.2	(4.1)	28.0	(3.7)	20.1	(2.7)
7	-0.1	(0.1)	-0.1	(0.0)	33.3	(2.8)	23.9	(2.0)	30.6	(3.6)	21.9	(2.6)
8	0.0	(0.1)	0.0	(0.1)	35.9	(3.8)	25.7	(2.7)	31.5	(3.7)	22.6	(2.7)
9	0.2	(0.1)	0.2	(0.0)	35.7	(6.3)	25.6	(4.5)	30.8	(4.0)	22.1	(2.9)
10	0.2	(0.1)	0.2	(0.1)	37.4	(7.6)	26.8	(5.4)	32.6	(5.2)	23.4	(3.7)
11	0.3	(0.2)	0.2	(0.2)	34.8	(6.7)	25.0	(4.8)	31.2	(6.8)	22.4	(4.9)
12	0.1	(0.1)	0.0	(0.1)	28.8	(9.2)	20.6	(6.6)	25.3	(7.0)	18.1	(5.0)
13	0.2	(0.3)	0.1	(0.2)	28.7	(5.7)	20.5	(4.1)	27.1	(3.7)	19.4	(2.7)
14	0.2	(0.1)	0.1	(0.1)	26.1	(4.8)	18.8	(3.4)	24.7	(4.1)	17.8	(2.9)
15	0.1	(0.2)	0.1	(0.2)	25.9	(6.7)	18.5	(4.8)	25.0	(5.5)	17.9	(3.9)
16	0.2	(0.1)	0.1	(0.1)	25.8	(5.4)	18.5	(3.8)	23.7	(5.2)	17.0	(3.7)
17	0.0	(0.1)	0.0	(0.1)	27.8	(6.3)	19.9	(4.5)	26.0	(5.6)	18.6	(4.0)
18	0.1	(0.1)	0.1	(0.1)	30.5	(6.0)	21.8	(4.3)	27.6	(5.2)	19.8	(3.7)
19	0.2	(0.1)	0.2	(0.0)	32.1	(4.8)	23.0	(3.4)	29.2	(3.0)	20.9	(2.2)
20	0.3	(0.1)	0.2	(0.0)	28.8	(5.0)	20.6	(3.6)	28.4	(3.9)	20.3	(2.8)
21	0.1	(0.1)	0.1	(0.0)	18.2	(11.4)	12.8	(8.2)	32.5	(7.3)	23.2	(5.3)
22	-0.2	(0.2)	-0.1	(0.1)								
23	-0.4	(0.0)	-0.3	(0.0)								
24	-0.4	(0.1)	-0.3	(0.0)	10.2	(1.1)	7.3	(0.8)	7.7	(1.6)	5.5	(1.2)
25	0.1	(0.4)	0.0	(0.3)	13.1	(6.8)	9.3	(4.9)	12.3	(5.9)	8.8	(4.2)
26	0.1	(0.4)	0.1	(0.3)	113.0	(92.4)	80.9	(68.5)	99.6	(82.5)	71.0	(61.2)
27	0.6	(0.0)	0.5	(0.0)	218.0	(36.0)	157.0	(26.0)	190.0	(29.8)	137.0	(21.5)
28	0.6	(0.1)	0.5	(0.1)	174.0	(35.6)	125.0	(25.6)	152.0	(32.4)	109.0	(23.2)
29	0.5	(0.1)	0.4	(0.1)	141.0	(20.0)	102.0	(14.3)	124.0	(20.0)	89.3	(14.4)
Avg	0.1		0.1		51.3		36.8		45.9		32.9	
n	25		25		24		24		24		24	
SD	0.3		0.2		52.4		37.7		45.2		32.5	
Min	-0.4		-0.3		10.2		7.3		7.7		5.5	
Max	0.6		0.5		218.0		157.0		190.0		137.0	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for March, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.3	(0.1)	0.2	(0.0)	122.0	(14.6)	87.3	(10.5)	115.0	(15.1)	82.5	(10.9)
2	0.2	(0.0)	0.1	(0.0)	87.2	(17.4)	62.5	(12.5)	83.6	(18.6)	60.0	(13.4)
3	0.1	(0.0)	0.1	(0.0)	60.9	(13.5)	43.7	(9.7)	59.3	(14.8)	42.5	(10.6)
4	0.2	(0.1)	0.1	(0.0)	61.8	(14.8)	44.4	(10.6)	56.8	(17.3)	40.7	(12.5)
5	0.1	(0.0)	0.0	(0.0)	62.3	(7.0)	44.7	(5.0)	56.5	(8.9)	40.6	(6.4)
6	0.1	(0.0)	0.1	(0.0)	59.5	(12.1)	42.8	(8.7)	54.4	(12.5)	39.1	(9.0)
7	0.0	(0.0)	0.0	(0.0)	53.3	(12.2)	38.3	(8.8)	45.3	(11.3)	32.6	(8.1)
8	-0.1	(0.1)	-0.1	(0.1)	33.6	(24.2)	24.3	(17.4)	26.9	(19.4)	19.4	(14.0)
9	-0.4	(0.1)	-0.3	(0.0)	10.9	(1.7)	7.9	(1.3)	8.4	(1.4)	6.0	(1.0)
10	-0.3	(0.0)	-0.2	(0.0)	12.6	(3.1)	9.1	(2.2)	8.3	(2.0)	6.0	(1.5)
11	-0.3	(0.0)	-0.2	(0.0)	18.6	(2.1)	13.4	(1.5)	10.2	(0.7)	7.3	(0.5)
12	-0.3	(0.1)	-0.2	(0.0)	22.7	(3.1)	16.3	(2.2)	11.4	(1.8)	8.2	(1.3)
13	-0.3	(0.0)	-0.2	(0.0)	26.1	(3.6)	18.8	(2.6)	13.7	(1.5)	9.9	(1.1)
14	-0.4	(0.0)	-0.3	(0.0)	26.7	(2.5)	19.2	(1.8)	15.5	(1.3)	11.2	(1.0)
15	-0.4	(0.0)	-0.3	(0.0)	27.0	(2.1)	19.4	(1.5)	15.2	(1.1)	10.9	(0.8)
16	-0.5	(0.0)	-0.3	(0.0)	24.6	(2.6)	17.6	(1.9)	14.3	(1.0)	10.2	(0.7)
17	-0.5	(0.1)	-0.3	(0.0)	21.1	(3.7)	15.1	(2.7)	12.7	(2.1)	9.1	(1.5)
18	-0.4	(0.0)	-0.3	(0.0)	17.5	(4.1)	12.6	(3.0)	10.0	(2.0)	7.2	(1.4)
19	-0.4	(0.0)	-0.3	(0.0)	20.2	(3.4)	14.5	(2.5)	10.8	(1.4)	7.8	(1.0)
20	-0.4	(0.0)	-0.3	(0.0)	24.4	(2.1)	17.5	(1.5)	13.6	(0.9)	9.7	(0.7)
21	-0.4	(0.1)	-0.3	(0.0)	27.4	(3.5)	19.6	(2.5)	16.0	(1.6)	11.5	(1.2)
22	-0.2	(0.1)	-0.2	(0.1)	23.3	(5.8)	16.7	(4.1)	15.9	(2.8)	11.4	(2.0)
23	-0.2	(0.1)	-0.2	(0.1)	19.8	(6.1)	14.2	(4.4)	15.4	(4.1)	11.1	(3.0)
24	-0.2	(0.0)										
25	-0.3	(0.0)	-0.2	(0.0)	22.9	(6.0)	16.9	(4.0)	17.7	(4.0)	13.0	(2.7)
26	-0.2	(0.0)	-0.1	(0.0)	26.6	(4.3)	19.1	(3.1)	20.0	(2.3)	14.3	(1.7)
27	-0.2	(0.1)										
28	-0.3	(0.1)	-0.2	(0.1)	26.3	(7.0)	18.8	(5.0)	21.3	(4.2)	15.3	(3.0)
29	-0.1	(0.0)	-0.1	(0.0)	28.7	(3.9)	20.6	(2.8)	23.6	(2.3)	17.0	(1.6)
30	-0.1	(0.0)	-0.1	(0.0)	26.9	(6.4)	19.3	(4.6)	22.7	(3.8)	16.3	(2.7)
31	0.0	(0.0)	0.0	(0.0)	24.6	(6.8)	17.6	(4.9)	21.2	(5.8)	15.2	(4.1)
Avg	-0.2		-0.1		35.1		25.2		28.1		20.2	
n	31		29		29		29		29		29	
SD	0.2		0.2		24.1		17.3		25		18	
Min	-0.5		-0.3		10.9		7.9		8.3		6.0	
Max	0.3		0.2		122.0		87.3		115.0		82.5	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for April, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.2	(0.2)	0.2	(0.1)	22.9	(6.8)	16.3	(4.9)	19.8	(5.6)	14.1	(4.0)
2	0.0	(0.1)	0.0	(0.1)	22.1	(6.2)	15.8	(4.5)	19.5	(5.2)	13.9	(3.8)
3	-0.2	(0.1)	-0.1	(0.1)	20.2	(6.5)	14.4	(4.7)	17.7	(5.3)	12.7	(3.8)
4	-0.2	(0.0)	-0.2	(0.0)	18.9	(5.0)	13.5	(3.6)	19.1	(4.2)	13.6	(3.0)
5					18.8	(5.9)	13.5	(4.2)	18.9	(4.1)	13.6	(2.9)
6												
7												
8												
9												
10												
11												
12	-0.1	(0.1)	-0.1	(0.1)	15.6	(6.5)	11.1	(4.6)	13.0	(5.2)	9.3	(3.7)
13	-0.2	(0.1)	-0.1	(0.1)	12.0	(5.2)	8.6	(3.7)	10.3	(4.3)	7.4	(3.1)
14	0.0	(0.1)	0.0	(0.1)	14.4	(3.6)	10.3	(2.6)	11.4	(3.1)	8.1	(2.2)
15	-0.2	(0.0)	-0.1	(0.0)	37.7	(28.7)	26.9	(20.5)	19.9	(15.7)	14.2	(11.2)
16	-0.1	(0.1)	0.0	(0.1)	24.5	(29.8)	18.8	(22.0)	14.6	(15.3)		
17	-0.2	(0.2)	-0.1	(0.1)	9.8	(7.1)	7.0	(5.1)	12.4	(10.7)		
18	-0.5	(0.1)	-0.4	(0.0)	0.9	(0.8)	0.7	(0.6)	0.8	(0.6)		
19	-0.7	(0.0)	-0.5	(0.0)	-0.4	(0.2)	-0.3	(0.2)	-0.4	(0.2)		
20	-0.7	(0.0)	-0.5	(0.0)	-0.4	(0.2)	-0.3	(0.2)	-0.3	(0.4)	-0.2	(0.3)
21	-0.6	(0.0)	-0.4	(0.0)	0.0	(0.3)	0.0	(0.2)	-0.1	(0.4)	0.0	(0.3)
22	-0.6	(0.1)	-0.4	(0.0)	0.8	(0.8)	0.6	(0.6)	0.6	(0.7)	0.4	(0.5)
23	-0.4	(0.0)	-0.3	(0.0)	1.9	(0.6)	1.4	(0.4)	1.3	(0.6)	0.9	(0.5)
24	-0.5	(0.0)	-0.4	(0.0)	2.1	(0.7)	1.5	(0.5)	1.3	(0.7)	0.9	(0.5)
25	-0.4	(0.1)	-0.3	(0.0)	2.7	(0.6)	1.9	(0.5)	1.7	(0.7)	1.2	(0.5)
26	-0.3	(0.1)	-0.2	(0.0)	2.5	(0.6)	1.8	(0.4)	1.6	(0.5)	1.2	(0.4)
27	-0.3	(0.0)	-0.2	(0.0)	2.2	(0.6)	1.6	(0.4)	1.5	(0.4)	1.0	(0.3)
28	-0.3	(0.0)	-0.2	(0.0)	1.9	(0.3)	1.3	(0.2)	1.2	(0.2)	0.9	(0.2)
29	-0.3	(0.0)	-0.2	(0.0)	2.1	(0.4)	1.5	(0.3)	1.4	(0.3)	1.0	(0.3)
30	-0.3	(0.0)	-0.2	(0.0)	3.2	(1.0)	2.3	(0.7)	2.2	(0.9)	1.5	(0.6)
Avg	-0.3		-0.2		9.9		7.1		7.9		5.8	
n	23		23		24		24		24		20	
SD	0.2		0.2		10.3		7.5		7.9		5.8	
Min	-0.7		-0.5		-0.4		-0.3		-0.4		-0.2	
Max	0.2		0.2		37.7		26.9		19.9		14.2	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for May, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	-0.2	(0.0)	-0.2	(0.0)	3.4	(1.0)	2.4	(0.7)	2.3	(0.7)	1.7	(0.5)
2	-0.2	(0.0)	-0.1	(0.0)	3.3	(0.9)	2.4	(0.7)	2.2	(0.6)	1.5	(0.4)
3	-0.2	(0.0)	-0.2	(0.0)	4.0	(1.0)	2.9	(0.7)	2.5	(0.6)	1.8	(0.5)
4	-0.2	(0.0)	-0.2	(0.0)	3.5	(0.9)	2.5	(0.7)	2.1	(0.5)	1.5	(0.3)
5	-0.2	(0.0)	-0.1	(0.0)	3.1	(0.9)	2.3	(0.7)	2.0	(0.5)	1.4	(0.3)
6	-0.1	(0.0)	-0.1	(0.0)	3.6	(0.8)	2.6	(0.6)	2.5	(0.4)	1.8	(0.3)
7	-0.1	(0.0)	-0.1	(0.0)	3.6	(0.3)	2.6	(0.2)	3.1	(0.3)	2.2	(0.2)
8	0.0	(0.0)	0.0	(0.0)	3.1	(0.8)	2.2	(0.6)	2.8	(0.7)	2.0	(0.5)
9	-0.1	(0.0)	-0.1	(0.0)	3.7	(0.8)	2.6	(0.6)	3.4	(0.7)	2.4	(0.5)
10	-0.1	(0.0)	-0.1	(0.0)	3.9	(1.2)	2.8	(0.8)	3.4	(0.9)	2.5	(0.7)
11	0.0	(0.0)	0.0	(0.0)	4.7	(1.3)	3.4	(0.9)	3.8	(0.8)	2.7	(0.6)
12	-0.1	(0.0)	0.0	(0.0)	5.7	(1.0)	4.1	(0.7)	4.8	(0.6)	3.4	(0.4)
13	-0.1	(0.0)	-0.1	(0.0)	4.5	(1.9)	3.3	(1.4)	3.9	(1.5)	2.8	(1.1)
14	0.0	(0.1)	0.0	(0.0)	3.9	(1.6)	2.8	(1.2)	3.5	(1.3)	2.5	(0.9)
15	0.2	(0.1)	0.1	(0.1)	3.9	(1.3)	2.8	(0.9)	3.7	(1.1)	2.6	(0.8)
16												
17												
18												
19												
20	0.2	(0.0)	0.2	(0.0)	10.0	(3.3)	7.2	(2.4)	6.6	(1.8)	4.7	(1.3)
21	0.1	(0.0)	0.1	(0.0)	11.4	(3.7)	8.1	(2.6)	7.4	(1.6)	5.3	(1.2)
22	0.0	(0.0)	0.0	(0.0)	11.1	(3.4)	7.9	(2.4)	7.8	(1.9)	5.6	(1.3)
23	0.2	(0.0)	0.1	(0.0)	12.1	(3.4)	8.7	(2.5)	7.6	(1.6)	5.5	(1.1)
24	0.3	(0.1)	0.2	(0.0)	20.0	(3.1)	14.3	(2.2)	12.8	(2.7)	9.2	(1.9)
25	0.6	(0.1)	0.5	(0.1)	21.7	(4.9)	15.6	(3.6)	18.2	(3.6)	13.0	(2.6)
26	0.4	(0.2)	0.3	(0.1)	22.3	(6.9)	16.0	(5.0)	19.5	(5.9)	14.0	(4.2)
27	0.6	(0.1)	0.4	(0.1)	21.9	(6.3)	15.7	(4.5)	20.0	(5.5)	14.3	(4.0)
28	0.6	(0.0)	0.5	(0.0)	21.5	(7.2)	15.4	(5.2)	19.5	(6.3)	14.0	(4.5)
29	0.5	(0.1)	0.4	(0.1)	18.2	(7.0)	13.0	(5.0)	16.7	(6.4)	12.0	(4.6)
30	0.5	(0.1)	0.4	(0.1)	16.3	(6.0)	11.7	(4.3)	14.9	(5.5)	10.7	(4.0)
31	0.4	(0.0)	0.3	(0.0)	16.3	(5.6)	11.7	(4.0)	14.4	(4.8)	10.3	(3.5)
Avg	0.1		0.1		9.7		6.9		7.8		5.6	
n	27		27		27		27		27		27	
SD	0.3		0.2		7.2		5.1		6.3		4.5	
Min	-0.2		-0.2		3.1		2.2		2.0		1.4	
Max	0.6		0.5		22.3		16.0		20.0		14.3	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for June, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.4	(0.0)	0.3	(0.0)	16.6	(6.7)	11.9	(4.8)	14.0	(5.2)	10.1	(3.7)
2	0.5	(0.1)	0.3	(0.0)	15.9	(6.5)	11.4	(4.6)	13.9	(5.3)	10.0	(3.8)
3	0.5	(0.1)	0.4	(0.0)	14.9	(4.9)	10.7	(3.5)	13.4	(4.2)	9.6	(3.0)
4	0.4	(0.1)	0.3	(0.1)	15.6	(5.4)	11.2	(3.9)	14.1	(4.7)	10.1	(3.4)
5	0.5	(0.2)	0.3	(0.1)	13.3	(6.4)	9.6	(4.6)	11.9	(5.1)	8.5	(3.7)
6	0.5	(0.2)	0.3	(0.1)	14.0	(4.0)	10.0	(2.9)	10.1	(4.6)	7.2	(3.3)
7	0.6	(0.3)	0.4	(0.2)	19.3	(16.9)	13.8	(12.1)	14.2	(14.6)	10.1	(10.5)
8	2.5	(0.6)	1.8	(0.4)	66.3	(18.7)	47.5	(13.5)	61.1	(16.9)	43.8	(12.1)
9	3.8	(0.4)	2.7	(0.3)	79.7	(17.4)	57.1	(12.5)	67.6	(16.8)	48.5	(12.0)
10	0.6	(0.9)	0.4	(0.7)	20.3	(26.8)	14.5	(19.2)	16.2	(22.5)	11.6	(16.1)
11	-0.1	(0.2)	-0.1	(0.1)	4.2	(2.9)	3.0	(2.1)	2.5	(1.5)	1.8	(1.1)
12	0.0	(0.1)	0.0	(0.1)	12.9	(9.6)	9.2	(6.9)	11.0	(7.2)	7.8	(5.1)
13	0.2	(0.0)	0.1	(0.0)	17.4	(8.1)	12.5	(5.8)	15.3	(7.2)	11.0	(5.1)
14	0.2	(0.0)	0.1	(0.0)	21.1	(8.8)	15.1	(6.3)	19.6	(8.2)	14.0	(5.9)
15	0.2	(0.1)	0.1	(0.1)	19.5	(8.9)	13.9	(6.4)	18.0	(7.9)	12.9	(5.7)
16	0.1	(0.0)	0.1	(0.0)	16.6	(6.1)	11.9	(4.3)	15.1	(5.7)	10.8	(4.1)
17	0.2	(0.0)	0.2	(0.0)	14.3	(5.5)	10.3	(4.0)	12.7	(4.7)	9.1	(3.4)
18	0.0	(0.0)	0.0	(0.0)	11.4	(4.9)	8.2	(3.5)	9.9	(4.1)	7.1	(2.9)
19	0.1	(0.0)	0.1	(0.0)	10.0	(4.1)	7.2	(3.0)	8.8	(3.4)	6.3	(2.5)
20	0.1	(0.1)	0.1	(0.0)	7.7	(4.6)	5.5	(3.3)	6.9	(3.8)	4.9	(2.7)
21	0.0	(0.1)	0.0	(0.1)	6.6	(3.9)	4.7	(2.8)	5.8	(2.9)	4.1	(2.1)
22	-0.1	(0.1)	-0.1	(0.0)	5.8	(2.6)	4.1	(1.9)	5.3	(2.2)	3.8	(1.6)
23	0.0	(0.0)	0.0	(0.0)	7.1	(2.6)	5.1	(1.9)	6.7	(2.4)	4.8	(1.7)
24	0.0	(0.1)	0.0	(0.0)	8.0	(3.3)	5.8	(2.4)	7.0	(3.1)	5.0	(2.2)
25	0.0	(0.0)	0.0	(0.0)	6.7	(2.7)	4.8	(1.9)	5.4	(2.0)	3.9	(1.4)
26	0.0	(0.0)	0.0	(0.0)	6.6	(2.0)	4.8	(1.5)	5.1	(1.6)	3.6	(1.2)
27	0.0	(0.1)	0.0	(0.1)	4.7	(2.1)	3.4	(1.5)	4.0	(1.5)	2.8	(1.1)
28	-0.1	(0.0)	-0.1	(0.0)	4.2	(1.7)	3.0	(1.2)	3.5	(1.2)	2.5	(0.9)
29	-0.2	(0.0)	-0.1	(0.0)	3.5	(1.4)	2.5	(1.0)	2.9	(0.9)	2.1	(0.7)
30	-0.1	(0.0)	-0.1	(0.0)	3.2	(1.2)	2.3	(0.8)	2.6	(0.7)	1.9	(0.5)
Avg	0.4		0.3		15.6		11.2		13.5		9.7	
n	30		30		30		30		30		30	
SD	0.8		0.6		16.4		11.7		14.4		10.4	
Min	-0.2		-0.1		3.2		2.3		2.5		1.8	
Max	3.8		2.7		79.7		57.1		67.6		48.5	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for July, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.1	(0.1)	0.0	(0.1)	3.3	(1.1)	2.4	(0.8)	2.6	(0.7)	1.8	(0.5)
2	-0.1	(0.0)	-0.1	(0.0)	2.7	(1.0)	1.9	(0.7)	2.1	(0.6)	1.5	(0.5)
3	-0.2	(0.0)	-0.1	(0.0)	2.3	(0.7)	1.7	(0.5)	1.9	(0.5)	1.4	(0.4)
4	-0.2	(0.0)	-0.1	(0.0)	2.5	(0.7)	1.8	(0.5)	1.8	(0.4)	1.3	(0.3)
5	-0.1	(0.0)	-0.1	(0.0)	2.2	(0.8)	1.6	(0.5)	1.7	(0.4)	1.2	(0.3)
6	-0.1	(0.0)	-0.1	(0.0)	2.2	(0.4)	1.6	(0.3)	1.7	(0.4)	1.2	(0.3)
7	0.0	(0.1)	0.0	(0.1)	2.6	(0.4)	1.9	(0.3)	2.1	(0.4)	1.5	(0.3)
8	0.2	(0.1)	0.2	(0.1)	2.8	(0.6)	2.0	(0.4)	2.4	(0.6)	1.7	(0.4)
9	0.0	(0.1)	0.0	(0.0)	2.7	(0.5)	1.9	(0.4)	2.4	(0.6)	1.8	(0.4)
10	0.1	(0.0)	0.1	(0.0)	3.1	(0.7)	2.2	(0.5)	2.7	(0.7)	1.9	(0.5)
11	0.1	(0.0)	0.1	(0.0)	4.4	(1.0)	3.2	(0.7)	3.3	(0.8)	2.3	(0.6)
12	0.1	(0.1)	0.1	(0.1)	5.8	(1.6)	4.2	(1.1)	4.7	(1.4)	3.3	(1.0)
13	0.2	(0.1)	0.1	(0.0)	6.8	(1.9)	4.9	(1.4)	5.6	(1.5)	4.0	(1.1)
14	0.2	(0.1)	0.1	(0.1)	6.6	(1.6)	4.7	(1.1)	5.7	(1.4)	4.1	(1.0)
15	0.2	(0.1)	0.1	(0.1)	8.6	(2.4)	6.2	(1.7)	8.0	(2.3)	5.8	(1.7)
16	0.3	(0.1)	0.2	(0.1)	9.8	(3.1)	7.1	(2.2)	9.2	(2.8)	6.6	(2.0)
17	0.3	(0.1)	0.2	(0.1)	8.7	(2.8)	6.3	(2.0)	8.7	(2.5)	6.3	(1.8)
18	0.5	(0.1)	0.3	(0.1)	9.4	(2.4)	6.7	(1.7)	9.4	(2.4)	6.8	(1.7)
19	0.6	(0.1)	0.4	(0.1)	9.7	(1.6)	7.0	(1.1)	8.7	(1.6)	6.3	(1.2)
20	0.4	(0.0)	0.3	(0.0)	11.8	(2.8)	8.4	(2.0)	10.7	(2.5)	7.7	(1.8)
21	0.5	(0.0)	0.3	(0.0)	14.1	(4.2)	10.1	(3.0)	13.2	(4.3)	9.5	(3.1)
22	0.5	(0.1)	0.3	(0.1)	12.5	(4.0)	9.0	(2.8)	11.4	(3.3)	8.2	(2.4)
23	0.5	(0.2)	0.3	(0.1)	9.1	(1.5)	6.5	(1.0)	8.9	(1.7)	6.4	(1.2)
24	0.4	(0.2)	0.3	(0.1)	8.6	(0.6)	6.2	(0.4)	8.1	(0.7)	5.8	(0.5)
25	0.5	(0.3)	0.4	(0.2)	10.0	(0.9)	7.2	(0.6)	9.2	(0.9)	6.6	(0.7)
26	0.3	(0.1)	0.2	(0.1)	9.8	(1.0)	7.0	(0.7)	8.7	(1.0)	6.3	(0.7)
27	0.3	(0.1)	0.2	(0.1)	9.9	(1.1)	7.1	(0.8)	8.3	(1.0)	5.9	(0.7)
28	0.3	(0.1)	0.2	(0.1)	10.2	(1.8)	7.3	(1.3)	9.3	(2.2)	6.7	(1.6)
29	0.4	(0.1)	0.3	(0.1)	9.2	(1.7)	6.6	(1.2)	8.5	(1.9)	6.1	(1.4)
30	0.7	(0.1)	0.5	(0.1)	9.6	(2.1)	6.9	(1.5)	8.4	(2.0)	6.0	(1.4)
31	0.6	(0.1)	0.4	(0.0)	9.7	(3.2)	6.9	(2.3)	7.6	(1.5)	5.4	(1.1)
Avg	0.2		0.2		7.1		5.1		6.4		4.6	
n	31		31		31		31		31		31	
SD	0.2		0.2		3.6		2.6		3.4		2.5	
Min	-0.2		-0.1		2.2		1.6		1.7		1.2	
Max	0.7		0.5		14.1		10.1		13.2		9.5	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for August, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.7	(0.1)	0.5	(0.1)	87.6	(102.0)	63.2	(74.0)	56.8	(66.5)	40.9	(48.0)
2	0.9	(0.2)	0.6	(0.1)	72.4	(89.0)	52.1	(64.1)	64.7	(69.5)		
3	0.4	(0.0)	0.3	(0.0)	17.6	(1.9)	12.6	(1.4)	19.3	(1.9)		
4	0.2	(0.1)	0.2	(0.1)	8.3	(3.1)	5.9	(2.2)	8.0	(3.2)		
5	0.1	(0.0)	0.1	(0.0)	4.0	(1.4)	2.9	(1.0)	3.6	(1.1)		
6	0.0	(0.1)	0.0	(0.0)	8.0	(10.2)	5.7	(7.3)	8.9	(10.2)		
7	0.3	(0.1)	0.2	(0.1)	19.4	(9.3)	13.8	(6.6)	17.8	(8.8)		
8	0.0	(0.1)	0.0	(0.1)	7.6	(4.2)	5.4	(3.0)	7.3	(4.0)		
9	-0.1	(0.0)	-0.1	(0.0)	4.1	(1.8)	3.0	(1.3)	3.6	(1.6)		
10	0.0	(0.1)	0.0	(0.0)	7.6	(5.3)	5.4	(3.8)	6.1	(4.1)		
11	0.2	(0.0)	0.2	(0.0)	11.6	(5.9)	8.7	(4.1)	9.9	(4.5)		
12	0.1	(0.0)	0.1	(0.0)	11.1	(5.7)	7.9	(4.1)	9.4	(3.9)	6.7	(2.8)
13	0.1	(0.0)	0.1	(0.0)	9.0	(4.8)	6.5	(3.4)	8.0	(3.4)	5.8	(2.4)
14	0.1	(0.1)	0.1	(0.1)	6.8	(3.2)	5.0	(2.3)	6.3	(2.3)	4.5	(1.7)
15	0.0	(0.0)	0.0	(0.0)	5.2	(2.5)	3.8	(1.8)	4.9	(1.8)	3.5	(1.3)
16	-0.1	(0.0)	0.0	(0.0)	4.7	(1.9)	3.4	(1.4)	4.2	(1.4)	3.0	(1.0)
17	0.0	(0.1)	0.0	(0.0)	4.7	(1.6)	3.4	(1.1)	4.0	(1.0)	2.9	(0.7)
18												
19												
20					4.5	(1.6)	3.2	(1.2)	4.0	(1.1)	2.9	(0.8)
21	0.0	(0.1)	0.0	(0.1)	4.7	(2.2)	3.4	(1.6)	3.9	(1.4)	2.8	(1.0)
22	-0.1	(0.0)	-0.1	(0.0)	4.1	(2.1)	2.9	(1.5)	3.1	(1.2)	2.2	(0.8)
23	0.0	(0.0)	0.0	(0.0)	4.3	(1.8)	3.1	(1.3)	3.0	(0.9)	2.1	(0.6)
24	0.0	(0.1)	0.0	(0.0)	4.1	(1.7)	2.9	(1.2)	2.7	(0.8)	1.9	(0.6)
25	-0.2	(0.1)	-0.1	(0.0)	4.3	(1.5)	3.1	(1.1)	2.6	(0.6)	1.9	(0.4)
26	-0.1	(0.0)	-0.1	(0.0)	3.9	(1.4)	2.8	(1.0)	2.5	(0.7)	1.8	(0.5)
27	0.0	(0.0)	0.0	(0.0)	3.7	(1.4)	2.7	(1.0)	2.6	(0.6)	1.8	(0.5)
28	0.1	(0.0)	0.1	(0.0)	3.9	(1.4)	2.8	(1.0)	2.6	(0.7)	1.9	(0.5)
29	0.0	(0.0)	0.0	(0.0)	3.8	(1.0)	2.8	(0.7)	2.5	(0.5)	1.8	(0.4)
30												
31												
Avg	0.1		0.1		12.3		8.8		10.1		5.2	
n	26		26		27		27		27		17	
SD	0.2		0.2		19.7		14.2		15		9	
Min	-0.2		-0.1		3.7		2.7		2.5		1.8	
Max	0.9		0.6		87.6		63.2		64.7		40.9	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for November, 2008.

Day	Ambient		House 10		House 12	
	Mean (SD)		Mean (SD)		Mean (SD)	
	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	0.3 (0.2)	0.2 (0.1)	26.7 (5.2)	19.3 (3.8)	27.8 (5.9)	20.0 (4.2)
21	0.1 (0.1)	0.1 (0.1)	28.2 (3.4)	20.2 (2.5)	29.8 (4.3)	21.3 (3.1)
22	0.4 (0.2)		28.2 (4.6)	20.2 (3.3)	28.0 (4.8)	20.0 (3.4)
23	0.2 (0.3)		29.5 (5.0)	21.2 (3.6)	28.5 (5.3)	20.4 (3.8)
24	0.3 (0.1)		29.3 (3.2)	21.0 (2.3)	26.7 (4.0)	19.1 (2.9)
25	0.7 (0.1)		26.4 (3.7)	18.9 (2.6)		
26	0.5 (0.2)		24.1 (3.0)	17.4 (2.2)	25.1 (3.7)	18.0 (2.7)
27	0.2 (0.2)		22.2 (1.5)		24.2 (1.4)	17.3 (1.0)
28	0.3 (0.1)		19.9 (2.0)	14.6 (1.5)	20.1 (2.5)	14.4 (1.8)
29	0.1 (0.2)		21.6 (3.6)	15.6 (2.6)	21.1 (3.6)	15.1 (2.6)
30	0.1 (0.1)		23.3 (4.1)	16.6 (3.0)	22.9 (4.2)	16.4 (3.0)
Avg	0.3	0.1	25.4	18.5	25.4	18.2
n	11	2	11	10	10	10
SD	0.2	0.1	3.2	2.2	3.1	2.2
Min	0.1	0.1	19.9	14.6	20.1	14.4
Max	0.7	0.2	29.5	21.2	29.8	21.3

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for December, 2008.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.1	(0.0)			25.1	(1.0)	18.0	(0.7)	24.5	(1.1)	17.6	(0.8)
2	0.1	(0.0)			24.7	(2.3)	17.7	(1.6)	25.1	(2.5)	18.0	(1.8)
3	0.2	(0.0)	0.1	(0.0)	24.1	(4.4)	17.0	(3.4)	23.1	(5.9)	16.5	(4.3)
4	-0.1	(0.1)	0.0	(0.1)	18.7	(25.4)	14.1	(18.7)	7.1	(4.7)	5.0	(3.3)
5	-0.4	(0.1)	-0.3	(0.0)	4.0	(0.7)	2.9	(0.5)	4.7	(0.7)	3.3	(0.5)
6	-0.4	(0.0)	-0.3	(0.0)	3.1	(0.3)	2.2	(0.2)	4.0	(0.3)	2.9	(0.2)
7	-0.3	(0.0)	-0.2	(0.0)	6.2	(2.5)	4.4	(1.8)	7.6	(3.0)	5.4	(2.2)
8	-0.2	(0.1)	-0.1	(0.1)	17.9	(14.5)	12.8	(10.3)	19.7	(14.7)	14.0	(10.5)
9	0.0	(0.1)	0.0	(0.1)	45.5	(10.1)	32.5	(7.3)	43.9	(8.9)	31.3	(6.4)
10	0.0	(0.0)	0.0	(0.0)	49.0	(13.2)	35.1	(9.6)	52.7	(14.3)	37.7	(10.3)
11	0.2	(0.1)	0.2	(0.1)	65.8	(6.6)	47.2	(4.8)	70.7	(7.2)	50.6	(5.2)
12	0.1	(0.0)	0.1	(0.0)	66.7	(7.5)	47.8	(5.4)	71.9	(7.8)	51.5	(5.6)
13	0.1	(0.0)	0.1	(0.0)	59.8	(6.1)	42.9	(4.4)	64.8	(5.9)	46.4	(4.2)
14	0.0	(0.1)	0.0	(0.0)	50.8	(2.3)	36.4	(1.7)	54.4	(2.7)	38.9	(2.0)
15	0.0	(0.0)	0.0	(0.0)	48.3	(2.5)	34.6	(1.8)	51.2	(2.9)	36.7	(2.1)
16	0.0	(0.0)	0.0	(0.0)	39.7	(3.2)	28.5	(2.3)	42.3	(3.2)	30.3	(2.3)
17	-0.1	(0.0)	-0.1	(0.0)	28.0	(2.7)	20.0	(1.9)	29.9	(2.6)	21.4	(1.9)
18	-0.2	(0.0)	-0.1	(0.0)	26.9	(2.6)	19.3	(1.9)	28.7	(2.7)	20.6	(1.9)
19	-0.2	(0.0)	-0.1	(0.0)	25.8	(1.6)	18.5	(1.1)	27.1	(1.8)	19.4	(1.3)
20	-0.2	(0.0)	-0.1	(0.0)	20.9	(1.0)	15.0	(0.7)	21.8	(1.2)	15.6	(0.9)
21	-0.1	(0.0)	-0.1	(0.0)	29.0	(5.1)	21.0	(3.8)	29.6	(5.2)	21.3	(3.8)
22	-0.1	(0.0)	-0.1	(0.0)	25.5	(4.3)	18.4	(3.1)	24.7	(4.7)	17.8	(3.4)
23	-0.1	(0.0)	-0.1	(0.0)	22.0	(2.2)	15.9	(1.6)	19.5	(1.9)	14.0	(1.4)
24	-0.2	(0.0)	-0.1	(0.0)	20.8	(2.2)	15.0	(1.6)	18.0	(1.6)	12.9	(1.2)
25	-0.2	(0.0)	-0.2	(0.0)	16.6	(1.7)	11.9	(1.3)	14.5	(1.2)	10.4	(0.9)
26	-0.2	(0.0)	-0.2	(0.0)	16.5	(2.0)	11.8	(1.5)	13.4	(1.5)	9.6	(1.1)
27	-0.1	(0.0)	-0.1	(0.0)	16.7	(1.8)	12.0	(1.3)	12.6	(1.4)	9.0	(1.0)
28	-0.1	(0.0)	-0.1	(0.0)	16.5	(1.3)	11.9	(0.9)	11.5	(1.0)	8.2	(0.7)
29	-0.1	(0.1)	-0.1	(0.1)	17.1	(1.5)	12.3	(1.1)	11.2	(1.2)	8.1	(0.9)
30	-0.2	(0.0)	-0.1	(0.0)	20.8	(2.7)	15.0	(1.9)	13.0	(1.8)	9.3	(1.3)
31	0.0	(0.1)	0.0	(0.1)	27.4	(2.8)	19.7	(2.0)	16.4	(2.1)	11.8	(1.5)
Avg	-0.1		-0.1		28.4		20.4		27.7		19.9	
n	31		29		31		31		31		31	
SD	0.1		0.1		16.6		11.8		19.1		13.6	
Min	-0.4		-0.3		3.1		2.2		4.0		2.9	
Max	0.2		0.2		66.7		47.8		71.9		51.5	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for January, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	-0.1	(0.1)	-0.1	(0.1)	34.9	(3.3)	25.1	(2.4)	22.1	(2.6)	15.8	(1.9)
2	-0.1	(0.0)	-0.1	(0.0)	44.6	(4.1)	32.1	(3.0)	30.7	(3.3)	22.1	(2.4)
3	0.0	(0.0)	0.0	(0.0)	46.3	(2.8)	33.1	(2.1)	33.4	(1.9)	24.0	(1.3)
4	0.0	(0.0)	0.0	(0.0)	48.5	(5.1)	34.9	(3.7)	38.2	(3.2)	27.4	(2.3)
5	0.0	(0.0)	0.0	(0.0)	44.1	(3.5)	31.8	(2.6)	39.4	(2.8)	28.3	(2.0)
6	0.1	(0.0)	0.0	(0.0)	41.4	(3.5)	29.8	(2.5)	39.6	(3.0)	28.4	(2.2)
7	0.3	(0.1)	0.2	(0.1)	51.9	(5.8)	37.3	(4.2)	51.1	(5.2)	36.7	(3.7)
8	0.2	(0.0)	0.1	(0.0)	44.7	(2.7)	31.8	(1.8)	41.0	(4.0)	29.4	(2.9)
9	0.2	(0.1)	0.1	(0.1)	34.6	(8.3)			29.7	(6.7)	21.3	(4.8)
10	0.6	(0.1)	0.4	(0.1)	33.9	(5.0)			30.2	(5.1)	21.6	(3.7)
11	0.6	(0.1)	0.4	(0.1)	33.5	(6.0)	22.9	(3.9)	30.0	(5.8)	21.5	(4.2)
12												
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31	1.3	(0.1)	1.0	(0.1)	102.0	(8.7)	72.2	(6.1)	106.0	(9.5)	75.2	(6.9)
Avg	0.3		0.2		46.7		35.1		41		29.3	
n	12		12		12		10		12		12	
SD	0.4		0.3		17.8		13		21		14.8	
Min	-0.1		-0.1		33.5		22.9		22.1		15.8	
Max	1.3		1.0		102.0		72.2		106.0		75.2	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for February, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	1.5	(0.1)	1.1	(0.1)	84.5	(6.8)	60.5	(4.9)	87.0	(7.4)	62.3	(5.4)
2	1.2	(0.1)	0.9	(0.0)	71.4	(12.3)	51.1	(8.9)	73.9	(13.2)	52.9	(9.5)
3	1.1	(0.1)	0.8	(0.0)	60.8	(6.2)	43.5	(4.5)	61.7	(6.6)	44.2	(4.8)
4	0.9	(0.1)	0.7	(0.1)	65.2	(27.5)	46.2	(20.2)	64.3	(27.8)	46.4	(20.3)
5	0.9	(0.1)	0.7	(0.1)	46.9	(19.7)	33.6	(14.4)	51.2	(19.1)	36.5	(14.0)
6	0.9	(0.0)	0.7	(0.0)	48.4	(4.4)	34.6	(3.2)	52.9	(4.4)	37.8	(3.1)
7	0.9	(0.0)	0.6	(0.0)	52.7	(10.9)	37.8	(7.9)	56.5	(10.6)	40.5	(7.7)
8	0.9	(0.1)	0.6	(0.0)	52.8	(5.6)	37.8	(4.1)	54.2	(5.4)	38.8	(3.9)
9	0.7	(0.0)	0.5	(0.0)	49.9	(3.1)	35.7	(2.2)	50.6	(3.2)	36.2	(2.3)
10	0.7	(0.0)	0.5	(0.0)	51.5	(6.2)	36.9	(4.5)	52.4	(6.6)	37.5	(4.8)
11	0.7	(0.0)	0.5	(0.0)	50.2	(2.9)	36.0	(2.1)	50.5	(3.0)	36.2	(2.2)
12	0.6	(0.0)	0.5	(0.0)	47.3	(2.6)	34.0	(1.9)	47.7	(2.5)	34.3	(1.9)
13	0.6	(0.0)	0.4	(0.0)	38.4	(2.9)	27.6	(2.1)	38.3	(3.0)	27.5	(2.2)
14	0.5	(0.0)	0.3	(0.0)	35.3	(1.5)	25.3	(1.1)	34.3	(1.6)	24.6	(1.2)
15	0.4	(0.0)	0.3	(0.0)	27.5	(2.4)	19.7	(1.8)	26.6	(2.3)	19.0	(1.7)
16	0.4	(0.0)	0.3	(0.0)	25.7	(1.3)	18.4	(0.9)	25.0	(1.0)	17.9	(0.7)
17	0.4	(0.1)	0.3	(0.1)	32.2	(8.1)	22.9	(5.9)	31.9	(8.9)	22.6	(6.4)
18	0.5	(0.0)	0.4	(0.0)	32.5	(4.8)	23.4	(3.5)	30.4	(4.7)	21.9	(3.4)
19	0.4	(0.0)	0.3	(0.0)	26.2	(5.4)	18.9	(3.9)	22.4	(5.1)	16.1	(3.6)
20	0.5	(0.0)	0.4	(0.0)	27.0	(1.8)	19.4	(1.4)	22.2	(1.5)	16.0	(1.1)
21	0.5	(0.0)	0.4	(0.0)	24.1	(2.0)	17.4	(1.4)	20.0	(1.2)	14.4	(0.8)
22	0.5	(0.0)	0.3	(0.0)	22.8	(2.6)	16.4	(1.9)	19.2	(1.7)	13.8	(1.2)
23	0.5	(0.0)	0.3	(0.0)	22.4	(1.8)	16.2	(1.3)	18.5	(1.2)	13.4	(0.9)
24	0.5	(0.0)	0.3	(0.0)	21.6	(2.5)	15.5	(1.8)	16.8	(2.4)	12.1	(1.7)
25	0.4	(0.0)	0.3	(0.0)	22.7	(4.5)	16.3	(3.2)	17.0	(3.6)	12.2	(2.6)
26	0.5	(0.0)	0.3	(0.0)	22.4	(4.3)	16.1	(3.1)	17.4	(4.0)	12.5	(2.9)
27	0.4	(0.0)	0.3	(0.0)	22.2	(2.7)	16.0	(2.0)	16.0	(2.1)	11.5	(1.5)
28	0.4	(0.1)	0.3	(0.1)	26.1	(2.2)	18.7	(1.6)	18.7	(1.2)	13.4	(0.9)
Avg	0.7		0.5		39.7		28.4		38.5		27.6	
n	28		28		28		28		28		28	
SD	0.3		0.2		16.9		12.1		19.5		14	
Min	0.4		0.3		21.6		15.5		16.0		11.5	
Max	1.5		1.1		84.5		60.5		87.0		62.3	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for March, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.6	(0.1)	0.4	(0.0)	28.9	(1.9)	20.8	(1.4)	21.4	(1.9)	15.4	(1.4)
2	0.5	(0.0)	0.4	(0.0)	26.6	(5.2)	19.2	(3.8)	21.7	(2.8)	15.6	(2.1)
3	0.4	(0.0)	0.3	(0.0)	24.2	(1.1)	17.4	(0.8)	22.5	(2.1)	16.2	(1.5)
4	0.4	(0.0)	0.3	(0.0)	26.1	(1.6)	18.8	(1.2)	22.5	(1.5)	16.1	(1.1)
5	0.4	(0.0)	0.3	(0.0)	26.3	(3.0)	18.9	(2.1)	23.2	(2.6)	16.6	(1.9)
6	0.5	(0.0)	0.3	(0.0)	26.0	(3.9)	18.6	(2.8)	23.1	(3.3)	16.6	(2.4)
7	0.5	(0.0)	0.3	(0.0)	27.7	(3.1)	19.9	(2.2)	23.1	(2.5)	16.6	(1.8)
8	0.4	(0.0)	0.3	(0.0)	26.7	(4.6)	19.2	(3.3)	22.0	(4.2)	15.8	(3.0)
9	0.5	(0.1)	0.4	(0.1)	30.7	(3.4)	22.0	(2.5)	23.9	(2.7)	17.1	(2.0)
10	0.6	(0.1)	0.4	(0.1)	33.7	(7.7)	24.2	(5.5)	26.6	(5.1)	19.0	(3.7)
11	0.8	(0.1)	0.5	(0.1)	35.2	(6.7)	25.3	(4.8)	29.9	(5.2)	21.4	(3.7)
12	0.6	(0.1)	0.4	(0.0)	32.4	(8.4)	23.2	(6.1)	29.4	(6.9)	21.1	(5.0)
13	0.6	(0.0)	0.4	(0.0)	29.8	(8.7)	21.3	(6.2)	26.7	(6.6)	19.2	(4.7)
14	0.6	(0.1)	0.4	(0.1)	34.2	(5.4)	24.5	(3.9)	31.7	(4.5)	22.7	(3.2)
15	0.5	(0.1)	0.3	(0.1)	27.7	(8.6)	19.8	(6.2)	27.6	(8.8)	19.8	(6.3)
16	0.7	(0.2)	0.5	(0.1)	25.9	(8.4)	18.5	(6.0)	25.3	(8.1)	18.2	(5.8)
17	1.0	(0.1)	0.7	(0.1)	23.6	(7.9)	16.9	(5.7)	22.3	(8.1)	16.0	(5.9)
18	0.8	(0.2)	0.6	(0.2)	19.1	(4.2)	13.7	(3.0)	18.0	(4.0)	12.9	(2.8)
19	0.8	(0.1)	0.6	(0.1)	18.8	(6.5)	13.5	(4.6)	17.1	(6.0)	12.2	(4.3)
20	0.7	(0.1)	0.5	(0.1)	17.5	(5.6)	12.5	(4.0)	16.1	(5.1)	11.5	(3.6)
21	0.6	(0.0)	0.4	(0.0)	20.0	(4.7)	14.3	(3.4)	18.1	(4.3)	13.0	(3.1)
22	0.6	(0.2)	0.4	(0.1)	23.0	(4.2)	16.5	(3.0)	20.3	(3.1)	14.6	(2.2)
23	0.5	(0.1)	0.3	(0.0)	19.6	(4.0)	14.0	(2.9)	17.2	(3.3)	12.3	(2.4)
24	0.5	(0.1)	0.3	(0.1)	20.4	(5.8)	14.6	(4.1)	17.1	(4.7)	12.2	(3.4)
25	0.6	(0.1)	0.4	(0.1)	19.9	(6.2)	14.2	(4.4)	16.8	(4.9)	12.0	(3.5)
26	0.6	(0.2)	0.4	(0.2)	16.0	(8.0)	11.5	(5.7)	14.0	(6.3)	10.0	(4.5)
27	1.2	(0.8)	0.8	(0.6)	55.8	(55.1)	40.0	(39.6)	11.6	(5.0)	8.3	(3.6)
28	4.4	(1.8)	3.1	(1.3)	66.5	(58.2)	47.6	(41.7)	7.3	(1.8)	5.2	(1.3)
29	0.2	(0.1)	0.1	(0.0)	3.2	(0.7)	2.2	(0.5)	2.7	(0.4)	1.9	(0.3)
30	0.9	(0.6)	0.6	(0.4)	28.3	(25.2)	20.3	(18.1)	21.6	(21.7)	15.4	(15.6)
31	0.6	(0.4)	0.4	(0.3)	19.5	(20.4)	13.9	(14.6)	21.9	(23.7)	15.6	(17.0)
Avg	0.7		0.5		26.9		19.3		20.7		14.9	
n	31		31		31		31		31		31	
SD	0.7		0.5		11.1		8		6.2		4.4	
Min	0.2		0.1		3.2		2.2		2.7		1.9	
Max	4.4		3.1		66.5		47.6		31.7		22.7	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for April, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.3	(0.2)	0.2	(0.1)	18.2	(20.4)	13.1	(14.6)	15.6	(18.2)	11.1	(13.1)
2	0.4	(0.2)	0.3	(0.1)	23.5	(27.3)	16.8	(19.5)	22.3	(25.2)	16.0	(18.1)
3	0.0	(0.0)	0.0	(0.0)	1.4	(0.2)	1.0	(0.1)	1.6	(0.2)	1.1	(0.2)
4	-0.1	(0.0)	-0.1	(0.0)	0.9	(0.1)	0.7	(0.1)	1.1	(0.2)	0.7	(0.1)
5	-0.1	(0.0)	-0.1	(0.0)	0.8	(0.2)	0.6	(0.2)	0.9	(0.2)	0.7	(0.1)
6	-0.1	(0.0)	-0.1	(0.0)	0.9	(0.2)	0.6	(0.2)	0.9	(0.2)	0.6	(0.1)
7	-0.1	(0.0)	-0.1	(0.0)	0.3	(0.2)	0.2	(0.1)	0.1	(0.3)	0.1	(0.2)
8	-0.1	(0.1)	-0.1	(0.0)	0.8	(0.7)	0.6	(0.5)	0.9	(0.8)	0.6	(0.6)
9	0.0	(0.0)	0.0	(0.0)	1.1	(0.2)	0.7	(0.1)	1.4	(0.1)	1.0	(0.1)
10	-0.1	(0.0)	-0.1	(0.0)								
11	-0.2	(0.0)	-0.1	(0.0)	0.9	(0.3)	0.6	(0.2)	1.2	(0.2)	0.9	(0.1)
12	-0.1	(0.0)	-0.1	(0.0)	1.2	(0.4)	0.9	(0.3)	1.5	(0.2)	1.1	(0.2)
13	-0.2	(0.0)	-0.1	(0.0)	1.2	(0.3)	0.8	(0.2)	1.4	(0.2)	1.0	(0.1)
14	-0.2	(0.0)	-0.2	(0.0)	0.7	(0.1)	0.5	(0.1)	0.9	(0.1)	0.6	(0.1)
15	-0.2	(0.0)	-0.1	(0.0)	0.8	(0.2)	0.6	(0.1)	1.1	(0.2)	0.8	(0.1)
16	-0.1	(0.0)	-0.1	(0.0)	1.1	(0.3)	0.8	(0.2)	1.3	(0.1)	0.9	(0.1)
17	-0.1	(0.0)	-0.1	(0.0)	1.2	(0.2)	0.9	(0.2)	1.3	(0.2)	0.9	(0.1)
18	0.0	(0.0)	0.0	(0.0)	1.4	(0.6)	1.0	(0.4)	1.4	(0.5)	1.0	(0.4)
19	0.0	(0.1)	0.0	(0.0)	1.4	(0.8)	1.0	(0.6)	1.3	(0.8)	1.0	(0.6)
20												
21												
22												
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24												
25												
26												
27												
28												
29	-0.1	(0.0)	0.0	(0.0)	2.3	(0.3)	1.7	(0.3)	2.0	(0.3)	1.4	(0.2)
30	0.0	(0.0)	0.0	(0.0)	3.1	(0.4)	2.2	(0.3)	2.2	(0.4)	1.6	(0.3)
Avg	-0.1		0		3.2		2.3		3		2.2	
n	21		21		20		20		20		20	
SD	0.1		0.1		6		4.3		5.4		3.9	
Min	-0.2		-0.2		0.3		0.2		0.1		0.1	
Max	0.4		0.3		23.5		16.8		22.3		16.0	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for May, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.1	(0.0)	0.1	(0.0)	6.3	(1.6)	4.5	(1.2)	4.0	(1.0)	2.9	(0.7)
2	0.3	(0.0)	0.2	(0.0)	13.6	(1.5)	9.8	(1.1)	8.6	(1.4)	6.2	(1.0)
3	0.5	(0.0)	0.3	(0.0)	16.5	(2.9)	11.9	(2.1)	11.3	(2.0)	8.2	(1.4)
4	0.4	(0.1)	0.3	(0.1)	16.1	(4.8)	11.5	(3.5)	11.4	(3.6)	8.2	(2.6)
5	0.5	(0.1)	0.4	(0.1)	14.4	(5.4)	10.4	(3.9)	11.3	(4.1)	8.1	(3.0)
6	0.5	(0.0)	0.4	(0.0)	14.4	(6.0)	10.3	(4.3)	10.9	(4.4)	7.8	(3.2)
7	0.4	(0.1)	0.3	(0.1)	15.2	(6.3)	10.9	(4.5)	11.4	(4.3)	8.2	(3.1)
8	0.4	(0.0)	0.3	(0.0)	12.6	(5.6)	9.0	(4.0)	10.2	(4.2)	7.3	(3.0)
9	0.4	(0.0)	0.3	(0.0)	10.8	(5.1)	7.8	(3.7)	8.7	(4.1)	6.2	(2.9)
10	0.4	(0.1)	0.3	(0.0)	9.8	(4.7)	7.0	(3.3)	8.4	(3.4)	6.0	(2.5)
11	0.4	(0.1)	0.3	(0.0)	8.9	(3.3)	6.4	(2.4)	9.1	(3.6)	6.6	(2.6)
12	0.5	(0.0)	0.3	(0.0)	10.6	(4.0)	7.6	(2.9)	9.7	(3.7)	7.0	(2.7)
13	0.5	(0.1)	0.4	(0.0)	10.8	(4.8)	7.8	(3.4)	9.8	(4.4)	7.0	(3.2)
14	0.6	(0.1)	0.4	(0.1)	10.3	(3.8)	7.4	(2.7)	9.8	(3.7)	7.0	(2.7)
15	0.8	(0.1)	0.6	(0.1)	10.3	(2.9)	7.4	(2.0)	9.8	(3.3)	7.0	(2.4)
16	0.7	(0.2)	0.5	(0.1)	9.2	(0.9)	6.6	(0.6)	8.6	(1.2)	6.2	(0.9)
17	0.7	(0.2)	0.5	(0.1)	8.7	(0.8)	6.3	(0.6)	8.1	(0.8)	5.8	(0.6)
18	0.5	(0.1)	0.3	(0.0)	7.7	(0.8)	5.5	(0.6)	7.3	(0.7)	5.3	(0.5)
19	0.5	(0.1)	0.4	(0.1)	7.8	(0.7)	5.6	(0.5)	7.9	(0.8)	5.6	(0.6)
20	0.4	(0.1)	0.3	(0.1)	8.5	(1.7)	6.1	(1.2)	8.9	(2.4)	6.4	(1.7)
21	0.6	(0.1)	0.4	(0.1)	9.3	(1.3)	6.7	(0.9)	9.7	(2.3)	7.0	(1.7)
22	0.6	(0.1)	0.4	(0.1)	10.1	(1.3)	7.2	(1.0)	10.3	(1.8)	7.4	(1.3)
23	0.6	(0.1)	0.4	(0.1)	11.2	(2.1)	8.0	(1.5)	11.2	(2.2)	8.0	(1.5)
24	0.7	(0.1)	0.5	(0.0)	12.6	(2.5)	9.0	(1.8)	12.2	(2.5)	8.7	(1.8)
25	1.0	(0.1)	0.7	(0.1)	12.7	(2.2)	9.1	(1.6)	12.2	(2.3)	8.8	(1.6)
26	1.0	(0.1)	0.7	(0.1)	9.5	(2.9)	6.8	(2.1)	10.0	(3.8)	7.2	(2.7)
27	1.6	(0.3)	1.2	(0.2)	16.1	(8.8)	11.6	(6.3)	16.0	(11.3)	11.6	(8.1)
28	0.8	(0.3)	0.6	(0.2)	13.8	(5.5)	9.9	(4.0)	14.3	(4.4)	10.3	(3.1)
29	0.4	(0.1)	0.3	(0.1)	15.4	(4.1)	11.0	(3.0)	17.7	(6.4)	12.7	(4.6)
30	0.4	(0.0)	0.3	(0.0)	12.9	(1.4)	9.2	(1.0)	17.6	(3.3)	12.6	(2.4)
31	0.3	(0.0)	0.2	(0.0)	9.5	(0.9)	6.8	(0.6)	12.8	(2.1)	9.2	(1.5)
Avg	0.6		0.4		11.5		8.2		10.6		7.6	
n	31		31		31		31		31		31	
SD	0.3		0.2		2.8		2		2.8		2	
Min	0.1		0.1		6.3		4.5		4.0		2.9	
Max	1.6		1.2		16.5		11.9		17.7		12.7	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for June, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.3	(0.1)	0.2	(0.0)	8.0	(3.6)	5.8	(2.6)	6.4	(5.5)	4.6	(4.0)
2												
3												
4												
5	0.7	(0.0)	0.5	(0.0)	43.2	(3.8)	31.0	(2.8)	49.0	(4.6)	35.2	(3.4)
6	0.7	(0.1)	0.5	(0.0)	36.4	(5.2)	26.2	(3.7)	44.4	(3.7)	31.9	(2.7)
7	0.6	(0.1)	0.4	(0.0)	28.1	(6.9)	20.2	(5.0)	35.0	(7.9)	25.1	(5.7)
8	0.4	(0.1)	0.3	(0.0)	19.7	(5.1)	14.1	(3.7)	25.3	(6.2)	18.1	(4.4)
9	0.4	(0.0)	0.3	(0.0)	17.4	(2.4)	12.5	(1.7)	21.7	(3.3)	15.6	(2.4)
10	0.4	(0.0)	0.3	(0.0)	16.0	(3.3)	11.5	(2.4)	20.1	(4.5)	14.4	(3.3)
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
Avg	0.5		0.4		24.1		17.3		28.8		20.7	
n	7		7		7		7		7		7	
SD	0.2		0.1		11.5		8.3		13.8		9.9	
Min	0.3		0.2		8.0		5.8		6.4		4.6	
Max	0.7		0.5		43.2		31.0		49.0		35.2	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for July, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	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	0.9	(0.1)	0.7	(0.0)								
16	0.7	(0.1)	0.5	(0.1)								
17	0.6	(0.1)	0.4	(0.1)	7.6	(1.6)	5.4	(1.1)	6.8	(1.3)	4.9	(1.0)
18	0.6	(0.1)	0.4	(0.1)	8.2	(1.3)	5.9	(1.0)	7.4	(1.2)	5.3	(0.9)
19	0.7	(0.1)	0.5	(0.1)	8.5	(1.6)	6.1	(1.1)	7.9	(1.2)	5.7	(0.9)
20	0.4	(0.1)	0.3	(0.1)	6.4	(1.1)	4.6	(0.8)	5.9	(0.9)	4.2	(0.6)
21	1.2	(0.6)	0.9	(0.4)	36.3	(36.0)	27.9	(26.5)				
22	1.5	(0.2)	1.1	(0.1)	32.3	(25.6)	23.2	(18.3)	17.7	(7.3)	12.7	(5.2)
23	1.1	(0.1)	0.8	(0.1)	10.7	(1.4)	7.7	(1.0)	11.4	(1.8)	8.2	(1.3)
24												
25												
26												
27												
28	1.2	(0.0)	0.9	(0.0)	32.3	(13.5)	23.2	(9.7)	26.0	(11.2)	18.7	(8.0)
29	1.2	(0.0)	0.8	(0.0)	31.6	(9.7)	22.7	(7.0)	25.1	(8.2)	18.0	(5.9)
30	1.1	(0.1)	0.8	(0.0)	26.1	(9.2)	18.7	(6.6)	23.4	(7.6)	16.8	(5.4)
31	1.0	(0.0)	0.7	(0.0)	24.1	(9.1)	17.3	(6.5)	21.9	(8.2)	15.7	(5.9)
Avg	0.9		0.7		20.4		14.8		15.3		11	
n	13		13		11		11		10		10	
SD	0.3		0.2		11.5		8.5		7.9		5.7	
Min	0.4		0.3		6.4		4.6		5.9		4.2	
Max	1.5		1.1		36.3		27.9		26.0		18.7	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for August, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.8	(0.1)	0.6	(0.1)	21.9	(9.2)	15.7	(6.6)	19.4	(8.4)	13.9	(6.0)
2	0.8	(0.0)	0.5	(0.0)	18.4	(7.7)	13.2	(5.5)	17.5	(6.8)	12.6	(4.9)
3	0.7	(0.1)	0.5	(0.0)	16.1	(5.9)	11.6	(4.2)	15.5	(5.1)	11.2	(3.7)
4	1.0	(0.1)	0.7	(0.0)	13.5	(5.1)	10.0	(3.8)	13.0	(5.2)	9.4	(3.7)
5	1.0	(0.0)	0.7	(0.0)	14.2	(5.2)	10.2	(3.7)	11.6	(4.3)	8.3	(3.1)
6	0.8	(0.0)	0.6	(0.0)	15.5	(1.2)	11.2	(0.9)	12.7	(1.7)	9.1	(1.2)
7	0.8	(0.0)	0.5	(0.0)	12.1	(3.3)	8.7	(2.4)	10.5	(2.4)	7.6	(1.7)
8	0.8	(0.1)	0.5	(0.0)	8.6	(4.3)	6.2	(3.1)	7.7	(4.0)	5.6	(2.8)
9	0.5	(0.1)	0.4	(0.0)	7.3	(4.4)	5.2	(3.2)	6.1	(3.7)	4.4	(2.7)
10	0.6	(0.1)	0.4	(0.1)	6.4	(4.3)	4.6	(3.1)	5.4	(3.4)	3.8	(2.4)
11	0.4	(0.1)	0.3	(0.1)	4.7	(2.2)	3.4	(1.6)	4.6	(2.2)	3.3	(1.6)
12	0.4	(0.0)	0.3	(0.0)	4.2	(1.9)	3.0	(1.4)	4.3	(2.1)	3.1	(1.5)
13	0.3	(0.1)	0.2	(0.1)	3.5	(1.7)	2.5	(1.2)	3.7	(1.8)	2.7	(1.3)
14	0.3	(0.1)	0.2	(0.0)	3.4	(1.5)	2.5	(1.1)	3.6	(1.6)	2.6	(1.2)
15	0.3	(0.0)	0.2	(0.0)	2.9	(1.4)	2.1	(1.0)	3.2	(1.5)	2.3	(1.1)
16	0.2	(0.0)	0.2	(0.0)								
17	0.3	(0.0)	0.2	(0.0)								
18	0.3	(0.0)	0.2	(0.0)	2.1	(0.8)	1.5	(0.6)	2.3	(0.9)	1.7	(0.7)
19	0.3	(0.1)	0.2	(0.0)	1.8	(0.6)	1.3	(0.4)	2.0	(0.7)	1.5	(0.5)
20	0.3	(0.0)	0.2	(0.0)	2.1	(0.6)	1.5	(0.5)	2.2	(0.7)	1.6	(0.5)
21	0.4	(0.1)	0.3	(0.0)	2.2	(0.5)	1.6	(0.4)	2.2	(0.6)	1.6	(0.4)
22	0.3	(0.0)	0.2	(0.0)	1.9	(0.3)	1.4	(0.2)	1.9	(0.3)	1.4	(0.2)
23	0.4	(0.0)	0.3	(0.0)	2.9	(0.6)	2.1	(0.5)	3.0	(0.6)	2.2	(0.4)
24	0.4	(0.0)	0.3	(0.0)	4.4	(1.3)	3.1	(0.9)	4.3	(1.3)	3.1	(0.9)
25	0.4	(0.1)	0.3	(0.0)	5.2	(1.9)	3.7	(1.4)	4.9	(1.8)	3.5	(1.3)
26	0.5	(0.0)	0.3	(0.0)	6.2	(2.4)	4.4	(1.7)	5.6	(1.8)	4.0	(1.3)
27	0.5	(0.0)	0.4	(0.0)	6.3	(1.9)	4.6	(1.3)	5.3	(1.4)	3.8	(1.0)
28	0.5	(0.0)	0.4	(0.0)	6.0	(2.5)	4.3	(1.8)	4.9	(1.9)	3.5	(1.3)
29	0.6	(0.1)	0.4	(0.1)	5.4	(1.9)	3.9	(1.4)	4.7	(1.4)	3.4	(1.0)
30	0.5	(0.1)	0.4	(0.1)	4.3	(0.9)	3.1	(0.7)	3.9	(1.0)	2.8	(0.7)
31	0.7	(0.0)	0.5	(0.0)	6.0	(1.9)	4.3	(1.4)	5.3	(1.8)	3.8	(1.3)
Avg	0.5		0.4		7.2		5.2		6.6		4.7	
n	31		31		29		29		29		29	
SD	0.2		0.2		5.4		3.9		4.8		3.4	
Min	0.2		0.2		1.8		1.3		1.9		1.4	
Max	1.0		0.7		21.9		15.7		19.4		13.9	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for September, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.9	(0.1)	0.6	(0.1)	6.8	(1.8)	4.9	(1.3)	6.0	(1.6)	4.3	(1.2)
2	0.7	(0.1)	0.5	(0.1)	5.7	(0.6)	4.1	(0.5)	5.3	(0.8)	3.8	(0.6)
3	0.6	(0.1)	0.4	(0.0)	5.2	(0.8)	3.7	(0.5)	4.7	(0.8)	3.4	(0.6)
4	0.6	(0.1)	0.4	(0.0)	4.8	(0.7)	3.4	(0.5)	4.8	(0.9)	3.5	(0.6)
5	0.7	(0.1)	0.5	(0.0)	6.9	(1.3)	4.9	(0.9)	6.5	(1.4)	4.7	(1.0)
6	0.7	(0.1)	0.5	(0.0)	6.8	(1.8)	4.9	(1.3)	6.3	(1.7)	4.5	(1.2)
7	0.6	(0.1)	0.4	(0.1)	6.7	(1.0)	4.8	(0.7)	6.6	(1.2)	4.7	(0.8)
8	0.7	(0.1)	0.5	(0.1)	6.5	(1.0)	4.7	(0.7)	6.1	(0.9)	4.4	(0.7)
9	0.8	(0.0)	0.5	(0.0)					6.5	(0.8)		
10	0.8	(0.1)	0.6	(0.1)	7.5	(1.2)	5.3	(0.8)				
11	1.2	(0.2)	0.8	(0.1)	7.8	(1.5)	5.6	(1.1)	7.2	(1.4)	5.2	(1.0)
12	0.9	(0.2)	0.6	(0.1)	7.6	(1.0)	5.5	(0.7)	7.1	(0.9)	5.1	(0.7)
13	0.8	(0.0)	0.6	(0.0)	8.2	(2.7)	5.8	(2.0)	8.0	(2.5)	5.7	(1.8)
14	1.1	(0.1)	0.8	(0.1)	12.4	(4.5)	8.9	(3.2)	11.7	(4.3)	8.4	(3.1)
15	1.0	(0.1)	0.7	(0.1)	13.5	(5.0)	9.7	(3.6)	12.2	(3.8)	8.7	(2.8)
16	0.6	(0.0)	0.4	(0.0)	5.5	(1.6)	3.9	(1.1)	5.9	(2.1)	4.3	(1.5)
17	0.6	(0.0)	0.4	(0.0)	4.2	(1.4)	3.0	(1.0)	3.8	(1.0)	2.7	(0.7)
18	0.5	(0.0)	0.4	(0.0)	2.4	(0.6)	1.7	(0.5)	3.6	(0.7)	2.6	(0.5)
19	0.5	(0.1)	0.3	(0.0)	3.7	(2.0)	2.6	(1.5)	3.4	(0.3)	2.5	(0.2)
20	0.7	(0.2)	0.5	(0.2)	5.2	(0.5)	3.7	(0.4)	3.0	(0.2)	2.1	(0.2)
21	0.5	(0.1)	0.4	(0.1)	3.1	(1.3)	2.3	(0.9)	2.5	(0.2)	1.8	(0.2)
22	0.2	(0.1)	0.1	(0.1)	0.8	(0.4)	0.6	(0.3)	1.0	(0.7)	0.7	(0.5)
23	0.0	(0.0)	0.0	(0.0)	0.3	(0.2)	0.2	(0.1)	0.3	(0.2)	0.2	(0.1)
24	-0.1	(0.0)	0.0	(0.0)	0.2	(0.2)	0.1	(0.1)	0.2	(0.2)	0.1	(0.1)
25	-0.1	(0.0)	0.0	(0.0)	0.2	(0.2)	0.1	(0.1)	0.2	(0.2)	0.2	(0.2)
26	0.1	(0.0)	0.0	(0.0)	0.3	(0.1)	0.2	(0.0)	0.4	(0.1)	0.3	(0.1)
27	0.1	(0.0)	0.0	(0.0)	0.4	(0.1)	0.3	(0.1)	0.5	(0.1)	0.3	(0.1)
28	0.0	(0.0)	0.0	(0.0)	0.4	(0.1)	0.3	(0.1)	0.5	(0.1)	0.4	(0.1)
29	0.0	(0.0)	0.0	(0.0)	0.5	(0.1)	0.4	(0.1)	0.7	(0.1)	0.5	(0.1)
30	-0.1	(0.0)	0.0	(0.0)	0.6	(0.1)	0.4	(0.1)	0.8	(0.1)	0.6	(0.1)
Avg	0.5		0.4		4.6		3.3		4.3		3.1	
n	30		30		29		29		29		28	
SD	0.4		0.3		3.6		2.6		3.3		2.4	
Min	-0.1		0.0		0.2		0.1		0.2		0.1	
Max	1.2		0.8		13.5		9.7		12.2		8.7	

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Table E10. Daily means (SD) of NH3 concentrations at Site CA1B for October, 2009.

Day	Ambient				House 10				House 12			
	Mean (SD)				Mean (SD)				Mean (SD)			
	ppm		mg dsm^{-3}		ppm		mg dsm^{-3}		ppm		mg dsm^{-3}	
1	0.0	(0.0)	0.0	(0.0)	0.8	(0.1)	0.5	(0.1)	1.0	(0.2)	0.7	(0.1)
2	0.0	(0.0)	0.0	(0.0)	0.7	(0.2)	0.5	(0.1)	0.9	(0.3)	0.7	(0.2)
3	-0.1	(0.0)	-0.1	(0.0)	0.7	(0.1)	0.5	(0.1)	1.0	(0.1)	0.7	(0.1)
4	-0.1	(0.0)	0.0	(0.0)	1.0	(0.2)	0.7	(0.2)	1.3	(0.3)	1.0	(0.2)
5	0.0	(0.0)	0.0	(0.0)	1.0	(0.2)	0.7	(0.2)	1.4	(0.2)	1.0	(0.1)
6	0.0	(0.0)	0.0	(0.0)	0.9	(0.2)	0.6	(0.1)	1.2	(0.2)	0.8	(0.1)
7	0.0	(0.0)	0.0	(0.0)								
8	-0.1	(0.0)	-0.1	(0.0)	0.9	(0.2)	0.7	(0.1)	1.2	(0.2)	0.8	(0.2)
9	-0.1	(0.0)	-0.1	(0.0)	1.0	(0.2)	0.7	(0.2)	1.2	(0.3)	0.8	(0.2)
10	-0.1	(0.0)	-0.1	(0.0)	1.1	(0.2)	0.8	(0.2)	1.1	(0.3)	0.8	(0.2)
11	-0.1	(0.0)	-0.1	(0.0)	1.2	(0.1)	0.9	(0.1)	1.2	(0.1)	0.9	(0.1)
12	-0.1	(0.0)	-0.1	(0.0)	1.5	(0.1)	1.1	(0.1)	1.5	(0.2)	1.1	(0.1)
13					1.8	(0.2)	1.3	(0.1)	1.9	(0.3)	1.4	(0.2)
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Avg	-0.1		0		1		0.7		1.2		0.9	
n	12		12		12		12		12		12	
SD	0		0		0.3		0.2		0.2		0.2	
Min	-0.1		-0.1		0.7		0.5		0.9		0.7	
Max	0.0		0.0		1.8		1.3		1.9		1.4	

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Table E11. NH3 emissions

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for December, 2007.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29	28.8 (7.8)	18.9 (5.1)	1400 (379)	274 (74)	28.2 (6.7)	18.5 (4.4)	1360 (323)	267 (63)
30	30.7 (4.0)	20.1 (2.7)	1500 (196)	285 (38)	28.4 (4.1)	18.6 (2.7)	1370 (198)	261 (39)
31	28.4 (4.4)	18.6 (2.9)	1380 (215)	257 (40)	19.8 (23.6)	13.0 (15.5)		
Avg	29.3	19.2	1430	272	25.5	16.7	1370	264
n	3	3	3	3	3	3	2	2
SD	1.0	0.7	49	11	4.0	2.6	4	3
Min	28.4	18.6	1380	257	19.8	13.0	1360	261
Max	30.7	20.1	1500	285	28.4	18.6	1370	267

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for January, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	29.0	(8.8)	19.0	(5.8)	1430	(384)	259	(69)	13.2	(10.5)	8.62	(6.87)				
2	19.1	(19.8)	12.5	(13.0)					9.71	(18.50)	6.37	(12.10)				
3	19.8	(28.2)	13.0	(18.5)					11.6	(21.1)	7.62	(13.80)				
4	12.2	(23.3)	8.02	(15.30)					9.35	(17.30)	6.13	(11.30)				
5	10.6	(21.4)	6.92	(14.10)					8.30	(16.70)	5.44	(11.00)				
6	9.76	(16.90)	6.40	(11.10)	1070	(1850)	7720	(13300)	8.14	(14.00)	5.34	(9.18)				
7	8.34	(12.10)	5.47	(7.94)	691	(1130)	5730	(9280)	7.09	(10.20)	4.65	(6.68)				
8	6.85	(8.79)	4.49	(5.76)	325	(417)	2910	(3740)	6.40	(8.14)	4.20	(5.34)	302	(384)	2150	(2730)
9	6.39	(9.60)	4.19	(6.29)	304	(457)	2650	(3970)	5.77	(8.42)	3.79	(5.52)	273	(398)	2260	(3320)
10	6.49	(9.22)	4.25	(6.05)	309	(440)	2410	(3430)	5.86	(8.23)	3.84	(5.39)	277	(389)	2480	(3480)
11	6.03	(7.97)	3.95	(5.23)	288	(381)	1890	(2500)	5.30	(7.04)	3.48	(4.62)	251	(333)	2200	(2930)
12	5.77	(8.79)	3.78	(5.77)	276	(420)	1480	(2230)	4.95	(7.51)	3.25	(4.93)	235	(356)	1850	(2790)
13	5.45	(9.26)	3.57	(6.07)	261	(443)	1130	(1940)	4.48	(7.70)	2.94	(5.05)	213	(365)	1420	(2450)
14	6.14	(7.72)	4.02	(5.06)	294	(370)	1030	(1290)	4.95	(6.25)	3.25	(4.10)	235	(297)	1270	(1610)
15	6.61	(8.41)	4.33	(5.52)	317	(403)	915	(1160)	5.06	(6.39)	3.32	(4.19)	241	(304)	1060	(1340)
16	6.20	(8.15)	4.07	(5.34)	297	(391)	715	(943)	4.36	(6.28)	2.86	(4.12)	207	(299)	746	(1070)
17	5.92	(7.84)	3.88	(5.14)	284	(376)	573	(759)	4.16	(6.64)	2.73	(4.35)	198	(316)	581	(932)
18	6.16	(8.07)	4.04	(5.29)	296	(388)	508	(672)	4.72	(6.70)	3.09	(4.39)	225	(319)	546	(785)
19	6.16	(7.06)	4.04	(4.63)	296	(339)	438	(506)	4.78	(5.45)	3.13	(3.57)	228	(260)	466	(535)
20	5.38	(6.69)	3.53	(4.38)	259	(321)	334	(414)	4.17	(5.21)	2.73	(3.41)	199	(248)	347	(433)
21	5.37	(6.85)	3.52	(4.49)	258	(329)	292	(373)	3.81	(4.93)	2.50	(3.23)	182	(235)	272	(353)
22	5.43	(6.75)	3.56	(4.43)	261	(325)	262	(326)	3.63	(4.66)	2.38	(3.05)	173	(223)	226	(290)
23	5.85	(7.22)	3.83	(4.73)	282	(347)	252	(311)	3.77	(4.67)	2.47	(3.06)	180	(223)	206	(255)
24	6.26	(7.68)	4.10	(5.04)	301	(370)	242	(297)	3.97	(4.91)	2.60	(3.22)	190	(235)	192	(237)
25	6.74	(6.78)	4.42	(4.45)	325	(327)	236	(239)	4.32	(4.28)	2.83	(2.81)	207	(205)	186	(186)
26	6.36	(5.66)	4.17	(3.71)	307	(273)	203	(181)	4.57	(4.04)	3.00	(2.65)	219	(194)	177	(157)
27	6.34	(5.74)	4.16	(3.76)	306	(277)	185	(168)	4.64	(4.18)	3.04	(2.74)	222	(200)	163	(147)
28	8.72	(8.86)	5.72	(5.81)	421	(427)	234	(237)	6.86	(7.60)	4.50	(4.98)	329	(365)	219	(241)
29	9.48	(11.00)	6.22	(7.18)	458	(529)	236	(272)	8.02	(9.91)	5.26	(6.50)	385	(476)	235	(290)
30	10.3	(10.8)	6.76	(7.08)	498	(521)	238	(250)	9.04	(9.89)	5.93	(6.49)	434	(475)	244	(268)
31	10.8	(11.9)	7.08	(7.80)	521	(575)	232	(256)	8.77	(9.63)	5.75	(6.32)	422	(463)	218	(240)
Avg	8.71		5.71		405		1230		6.25		4.10		251		822	
n	31		31		27		27		31		31		24		24	
SD	5.10		3.35		262		1760		2.43		1.60		72		784	
Min	5.37		3.52		258		185		3.63		2.38		173		163	
Max	29.00		19.00		1430		7720		13.20		8.62		434		2480	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for February, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1																
2																
3																
4																
5	17.2	(11.2)	11.3	(7.4)	836	(544)	275	(180)	15.6	(10.3)	10.2	(6.8)	752	(499)	278	(185)
6	17.4	(9.5)	11.4	(6.3)	843	(462)	263	(145)	15.1	(8.8)	9.9	(5.8)	730	(423)	255	(148)
7	18.3	(9.2)	12.0	(6.0)	886	(447)	263	(133)	17.0	(9.9)	11.2	(6.5)	822	(479)	271	(158)
8	19.5	(9.3)	12.8	(6.1)	947	(453)	268	(129)	18.0	(9.2)	11.8	(6.0)	867	(445)	272	(140)
9	21.7	(10.0)	14.2	(6.5)	1050	(485)	285	(131)	19.5	(9.1)	12.8	(6.0)	942	(442)	280	(132)
10	24.4	(10.2)	16.0	(6.7)	1190	(494)	307	(129)	22.4	(9.4)	14.7	(6.1)	1080	(453)	307	(129)
11	24.2	(9.7)	15.8	(6.3)	1180	(471)	292	(117)	23.0	(8.7)	15.1	(5.7)	1110	(421)	302	(116)
12	23.6	(8.4)	15.4	(5.5)	1150	(408)	274	(99)	22.1	(6.4)	14.5	(4.2)	1070	(311)	278	(82)
13	23.7	(6.4)	15.5	(4.2)	1150	(314)	265	(73)	21.6	(7.0)	14.2	(4.6)	1050	(341)	261	(85)
14	21.4	(8.0)	14.1	(5.2)	1050	(388)	232	(87)	19.7	(8.6)	12.9	(5.6)	957	(415)	230	(100)
15	21.3	(7.0)	14.0	(4.6)	1040	(339)	224	(73)	20.5	(7.8)	13.5	(5.1)	997	(380)	230	(88)
16	23.5	(5.3)	15.4	(3.4)	1150	(256)	239	(53)	22.2	(5.9)	14.5	(3.9)	1080	(286)	240	(64)
17	25.9	(5.6)	17.0	(3.7)	1270	(273)	256	(55)	24.9	(5.5)	16.3	(3.6)	1210	(267)	261	(58)
18	28.3	(6.0)	18.6	(3.9)	1390	(292)	272	(58)	26.1	(5.4)	17.1	(3.6)	1270	(265)	266	(56)
19	28.4	(4.9)	18.6	(3.2)	1390	(239)	266	(46)	26.0	(4.4)	17.1	(2.9)	1270	(214)	257	(43)
20	28.6	(3.1)	18.7	(2.0)	1400	(151)	262	(29)	28.6	(3.4)	18.7	(2.2)	1390	(165)	275	(33)
21	23.9	(19.4)	15.7	(12.7)	1210	(963)			29.7	(9.0)	19.5	(5.9)	1470	(373)	282	(71)
22																
23																
24	8.19	(0.88)	5.37	(0.58)					8.67	(0.81)	5.69	(0.53)				
25	7.52	(3.70)	4.93	(2.43)					8.82	(2.94)	5.78	(1.93)				
26	7.25	(12.10)	4.75	(7.94)					7.60	(10.20)	4.98	(6.69)				
27	12.4	(22.5)	8.10	(14.80)					11.0	(19.7)	7.18	(12.90)				
28	14.0	(20.9)	9.16	(13.70)					12.6	(18.2)	8.29	(11.90)				
29	13.8	(16.4)	9.05	(10.80)	649	(774)	4760	(5660)	12.8	(15.8)	8.39	(10.40)	602	(744)	4410	(5520)
Avg	19.8		13.0		1100		529		18.8		12.4		1040		498	
n	23		23		18		17		23		23		18		18	
SD	6.4		4.2		202		1060		6.3		4.1		227		950	
Min	7.3		4.8		649		224		7.6		5.0		602		230	
Max	28.6		18.7		1400		4760		29.7		19.5		1470		4410	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for March, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	9.36	(11.50)	6.14	(7.57)	441	(544)	3710	(4570)	7.43	(14.60)	4.87	(9.60)	350	(690)	2950	(5780)
2	9.55	(12.00)	6.26	(7.87)	450	(566)	4050	(5090)	8.44	(13.00)	5.53	(8.53)	398	(614)	3580	(5510)
3	9.56	(9.93)	6.27	(6.51)	452	(469)	3920	(4090)	9.36	(9.72)	6.14	(6.37)	443	(459)	3840	(4010)
4	7.99	(8.64)	5.24	(5.67)	378	(409)	2910	(3160)	7.39	(7.69)	4.84	(5.05)	349	(364)	2690	(2820)
5	7.44	(8.81)	4.88	(5.78)	352	(417)	2260	(2670)	6.80	(7.74)	4.46	(5.08)	322	(367)	2070	(2360)
6	8.16	(9.20)	5.35	(6.03)	387	(436)	2040	(2330)	7.30	(7.79)	4.78	(5.11)	346	(369)	1830	(1980)
7	7.75	(8.19)	5.08	(5.37)	368	(388)	1570	(1670)	6.39	(6.96)	4.19	(4.57)	303	(330)	1300	(1420)
8	4.66	(6.99)	3.06	(4.59)	221	(332)	789	(1210)	3.77	(5.70)	2.47	(3.74)	179	(271)	638	(988)
9	2.08	(2.13)	1.36	(1.40)	99	(101)	279	(287)	1.70	(1.93)	1.11	(1.27)	81	(92)	228	(263)
10	2.93	(2.58)	1.92	(1.69)	139	(123)	328	(289)	2.07	(1.88)	1.36	(1.24)	99	(90)	233	(212)
11	3.97	(4.17)	2.60	(2.74)	188	(198)	374	(391)	2.32	(2.49)	1.52	(1.63)	111	(118)	220	(234)
12	5.09	(5.38)	3.34	(3.53)	242	(256)	410	(433)	2.77	(3.00)	1.81	(1.97)	132	(143)	223	(241)
13	6.25	(5.64)	4.10	(3.70)	297	(268)	435	(395)	3.47	(3.26)	2.28	(2.14)	165	(155)	242	(227)
14	6.34	(5.88)	4.15	(3.86)	301	(280)	384	(357)	3.87	(3.84)	2.54	(2.52)	185	(183)	235	(233)
15	6.68	(6.19)	4.38	(4.06)	318	(295)	356	(329)	3.99	(3.96)	2.61	(2.60)	190	(189)	213	(212)
16	6.45	(6.12)	4.23	(4.01)	307	(292)	305	(291)	3.90	(3.67)	2.56	(2.41)	186	(175)	185	(174)
17	6.40	(4.72)	4.20	(3.09)	305	(225)	271	(201)	4.10	(3.06)	2.69	(2.00)	196	(146)	174	(130)
18	6.49	(4.09)	4.26	(2.68)	310	(195)	247	(156)	3.99	(2.57)	2.62	(1.68)	191	(123)	152	(98)
19	7.56	(6.15)	4.96	(4.03)	361	(293)	261	(210)	4.27	(3.20)	2.80	(2.10)	204	(153)	147	(110)
20	8.45	(8.92)	5.54	(5.85)	404	(426)	265	(280)	4.98	(4.38)	3.27	(2.87)	239	(210)	157	(138)
21	9.44	(9.98)	6.19	(6.55)	452	(478)	272	(289)	5.99	(5.09)	3.93	(3.34)	287	(244)	173	(147)
22	9.22	(8.23)	6.04	(5.40)	441	(394)	245	(220)	6.96	(5.24)	4.56	(3.44)	334	(252)	185	(140)
23	9.56	(7.28)	6.27	(4.78)	458	(349)	235	(180)	7.79	(5.60)	5.11	(3.67)	375	(270)	192	(139)
24																
25	11.5	(8.3)	7.53	(5.46)	551	(400)	244	(178)	9.46	(6.89)	6.21	(4.52)	457	(332)	202	(148)
26	12.9	(9.0)	8.43	(5.88)	618	(431)	256	(179)	10.40	(7.04)	6.82	(4.62)	503	(340)	208	(141)
27																
28	14.7	(8.6)	9.67	(5.61)	709	(412)	260	(152)	13.00	(6.88)	8.55	(4.51)	630	(333)	231	(122)
29	17.0	(7.3)	11.2	(4.8)	820	(353)	283	(122)	14.90	(6.57)	9.78	(4.31)	722	(318)	250	(110)
30	17.2	(8.0)	11.3	(5.3)	830	(386)	272	(127)	15.30	(7.02)	10.00	(4.60)	741	(340)	243	(112)
31	16.9	(8.1)	11.1	(5.3)	814	(389)	253	(122)	15.30	(7.60)	10.00	(4.98)	740	(368)	230	(115)
Avg	8.68		5.69		414		948		6.81		4.46		326		801	
n	29		29		29		29		29		29		29		29	
SD	3.89		2.55		188		1210		3.88		2.54		188		1110	
Min	2.08		1.36		99		235		1.70		1.11		81		147	
Max	17.20		11.30		830		4050		15.30		10.00		741		3840	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for April, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	18.0	(7.9)	11.8	(5.2)	868	(380)	257	(113)	16.1	(7.7)	10.5	(5.0)	779	(372)	230	(111)
2	18.7	(6.2)	12.3	(4.1)	904	(301)	255	(86)	17.5	(6.4)	11.5	(4.2)	850	(311)	240	(88)
3	20.6	(5.2)	13.5	(3.4)	998	(251)	269	(68)	18.5	(5.8)	12.1	(3.8)	898	(279)	242	(76)
4	21.6	(5.6)	14.2	(3.7)	1050	(270)	270	(70)	19.0	(5.2)	12.5	(3.4)	924	(255)	239	(67)
5																
6																
7																
8																
9																
10																
11																
12	30.7	(6.7)	20.1	(4.4)	1490	(327)	293	(64)	26.5	(5.9)	17.3	(3.9)	1290	(290)	253	(57)
13	26.0	(5.3)	17.1	(3.5)	1270	(260)	242	(50)	23.1	(5.6)	15.1	(3.7)	1130	(272)	215	(52)
14	21.3	(3.9)	13.9	(2.6)	1040	(190)	193	(36)	18.2	(3.6)	11.9	(2.4)	890	(178)	166	(33)
15	10.3	(9.8)	6.75	(6.41)					5.78	(6.50)	3.79	(4.3)				
16	10.6	(13.3)	6.97	(8.75)					9.12	(16.60)	5.98	(10.90)				
17	7.35	(7.58)	4.82	(4.97)					3.59	(6.02)	2.35	(3.95)				
18	1.91	(2.22)	1.25	(1.46)					2.26	(2.80)	1.48	(1.84)				
19	0.117	(0.100)	0.077	(0.066)					0.101	(0.084)	0.067	(0.055)				
20	0.062	(0.072)	0.041	(0.047)					0.017	(0.053)	0.011	(0.035)				
21	0.217	(0.237)	0.142	(0.156)					0.133	(0.136)	0.087	(0.089)				
22	0.099	(0.181)	0.065	(0.118)					0.083	(0.145)	0.055	(0.095)	4.02	(7.68)	25.7	(49.1)
23	0.156	(0.285)	0.102	(0.187)	7.31	(13.40)	53.9	(98.0)	0.109	(0.203)	0.071	(0.133)	5.12	(9.56)	38.8	(72.3)
24	0.170	(0.232)	0.112	(0.152)	7.98	(10.90)	67.9	(93.0)	0.107	(0.148)	0.070	(0.097)	5.05	(6.97)	43.7	(60.5)
25	0.356	(0.538)	0.233	(0.353)	16.7	(25.3)	150	(228)	0.248	(0.357)	0.163	(0.234)	11.7	(16.8)	105	(152)
26	0.562	(0.587)	0.369	(0.385)	26.4	(27.6)	228	(239)	0.394	(0.408)	0.258	(0.268)	18.6	(19.2)	158	(164)
27	0.756	(0.665)	0.496	(0.436)	35.6	(31.3)	272	(241)	0.558	(0.494)	0.366	(0.324)	26.3	(23.3)	196	(174)
28	0.587	(0.521)	0.385	(0.341)	27.7	(24.5)	177	(158)	0.438	(0.383)	0.288	(0.251)	20.7	(18.1)	128	(112)
29	0.373	(0.472)	0.244	(0.310)	17.6	(22.3)	92.0	(116.0)	0.251	(0.288)	0.165	(0.189)	11.9	(13.6)	60.0	(68.7)
30	0.476	(0.624)	0.312	(0.409)	22.5	(29.5)	94.3	(122.0)	0.300	(0.393)	0.197	(0.258)	14.2	(18.6)	57.2	(73.8)
Avg	8.31		5.45		518		194		7.06		4.63		430		150	
n	23		23		15		15		23		23		16		16	
SD	10.10		6.60		551		80		8.90		5.84		485		82	
Min	0.06		0.04		7		54		0.02		0.01		4		26	
Max	30.70		20.10		1490		293		26.50		17.30		1290		253	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for May, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	0.62	(0.78)	0.41	(0.51)	29.50	(37.00)	102.00	(129.00)	0.45	(0.56)	0.30	(0.37)	21.40	(26.50)	71.90	(89.20)
2	0.73	(0.82)	0.48	(0.54)	34.40	(38.70)	97.90	(111.00)	0.52	(0.59)	0.34	(0.38)	24.60	(27.70)	67.90	(76.70)
3	0.91	(1.00)	0.60	(0.66)	43.20	(47.50)	101.00	(112.00)	0.64	(0.70)	0.42	(0.46)	30.10	(33.00)	68.60	(76.00)
4	1.12	(1.01)	0.73	(0.66)	52.90	(47.70)	105.00	(95.40)	0.72	(0.66)	0.47	(0.43)	34.00	(31.20)	65.60	(60.30)
5	1.19	(0.96)	0.78	(0.63)	56.60	(45.50)	95.60	(77.30)	0.82	(0.69)	0.54	(0.45)	39.00	(32.70)	64.10	(54.00)
6	1.49	(1.25)	0.98	(0.82)	70.50	(59.20)	102.00	(86.00)	1.04	(0.88)	0.68	(0.58)	49.40	(41.60)	70.00	(59.00)
7	0.99	(0.98)	0.65	(0.64)	47.10	(46.30)	59.70	(58.70)	0.90	(0.91)	0.59	(0.59)	42.60	(42.90)	52.80	(53.10)
8	1.57	(1.00)	1.03	(0.65)	74.60	(47.30)	83.20	(52.90)	1.45	(0.90)	0.95	(0.59)	68.80	(42.60)	75.20	(46.70)
9	1.59	(1.12)	1.04	(0.74)	75.60	(53.30)	74.70	(52.60)	1.51	(1.04)	0.99	(0.68)	71.60	(49.40)	69.50	(47.90)
10	2.28	(1.37)	1.49	(0.90)	108.00	(65.10)	95.60	(57.40)	2.00	(1.20)	1.31	(0.79)	94.90	(57.10)	82.40	(49.70)
11	2.40	(1.55)	1.58	(1.02)	114.00	(73.80)	90.80	(58.70)	2.02	(1.35)	1.33	(0.88)	96.00	(63.90)	75.00	(49.80)
12	2.42	(1.51)	1.59	(0.99)	115.00	(71.60)	82.90	(51.50)	2.09	(1.40)	1.37	(0.92)	99.30	(66.50)	70.30	(46.80)
13	3.21	(1.89)	2.11	(1.24)	153.00	(90.00)	100.00	(59.00)	3.03	(1.85)	1.99	(1.21)	144.00	(87.90)	93.20	(56.80)
14	3.67	(2.07)	2.41	(1.36)	175.00	(98.80)	105.00	(59.50)	3.62	(2.17)	2.37	(1.42)	172.00	(103.00)	102.00	(61.10)
15																
16																
17																
18																
19																
20	11.00	(5.34)	7.22	(3.50)	527.00	(256.00)	205.00	(99.40)	7.73	(4.07)	5.07	(2.67)	369.00	(194.00)	142.00	(74.90)
21	10.70	(4.70)	7.00	(3.08)	511.00	(225.00)	187.00	(82.70)	7.69	(3.47)	5.04	(2.27)	367.00	(166.00)	133.00	(59.80)
22	11.70	(4.45)	7.65	(2.92)	558.00	(213.00)	193.00	(73.80)	8.91	(3.66)	5.84	(2.40)	426.00	(175.00)	146.00	(59.90)
23	12.70	(4.53)	8.32	(2.97)	608.00	(217.00)	198.00	(70.80)	8.48	(3.02)	5.56	(1.98)	406.00	(145.00)	131.00	(46.60)
24	15.30	(5.00)	10.10	(3.28)	735.00	(240.00)	228.00	(73.80)	10.30	(3.67)	6.76	(2.40)	494.00	(175.00)	152.00	(53.00)
25	20.40	(5.26)	13.40	(3.45)	980.00	(252.00)	289.00	(73.60)	17.70	(4.97)	11.60	(3.26)	846.00	(238.00)	247.00	(68.60)
26	25.50	(7.85)	16.70	(5.14)	1220.00	(377.00)	344.00	(106.00)	22.70	(7.36)	14.90	(4.83)	1090.00	(353.00)	304.00	(99.10)
27	25.90	(6.12)	17.00	(4.02)	1250.00	(294.00)	335.00	(79.20)	23.70	(6.85)	15.50	(4.49)	1140.00	(329.00)	303.00	(88.00)
28	26.90	(7.17)	17.70	(4.70)	1290.00	(345.00)	334.00	(89.10)	25.00	(6.98)	16.40	(4.57)	1200.00	(335.00)	308.00	(86.30)
29	25.70	(6.16)	16.90	(4.04)	1240.00	(296.00)	307.00	(73.70)	24.50	(6.02)	16.10	(3.95)	1180.00	(289.00)	290.00	(71.50)
30	26.90	(5.87)	17.60	(3.85)	1300.00	(283.00)	309.00	(67.30)	25.40	(6.14)	16.60	(4.03)	1220.00	(295.00)	289.00	(69.90)
31	26.30	(5.79)	17.30	(3.79)	1270.00	(279.00)	292.00	(64.20)	24.20	(6.01)	15.90	(3.94)	1170.00	(289.00)	267.00	(66.00)
Avg	10.1		6.6		486.0		174.0		8.7		5.7		419.0		144.0	
n	26		26		26		26		26		26		26		26	
SD	10.2		6.7		490.0		96.8		9.4		6.1		450.0		91.5	
Min	0.6		0.4		29.5		59.7		0.5		0.3		21.4		52.8	
Max	26.9		17.7		1300.0		344.0		25.4		16.6		1220.0		308.0	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for June, 2008.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	28.40 (6.74)	18.60 (4.42)	1370.00 (326.00)	305.00 (72.70)	25.10 (6.46)	16.40 (4.24)	1210.00 (311.00)	267.00 (68.90)
2	28.00 (6.69)	18.40 (4.39)	1360.00 (324.00)	291.00 (69.50)	25.40 (6.41)	16.60 (4.20)	1220.00 (309.00)	261.00 (65.90)
3	30.40 (7.31)	19.90 (4.79)	1470.00 (354.00)	306.00 (73.50)	27.80 (6.60)	18.20 (4.33)	1340.00 (319.00)	277.00 (65.80)
4	30.10 (6.52)	19.80 (4.27)	1460.00 (316.00)	295.00 (63.70)	27.50 (6.44)	18.00 (4.22)	1330.00 (311.00)	266.00 (62.30)
5	25.50 (6.77)	16.70 (4.44)	1240.00 (329.00)	243.00 (65.40)	23.80 (6.50)	15.60 (4.26)	1150.00 (314.00)	224.00 (62.00)
6	20.50 (7.54)	13.50 (4.94)			21.10 (5.47)	13.80 (3.59)	1010.00 (250.00)	192.00 (47.90)
7	2.22 (3.93)	1.45 (2.57)			3.22 (6.07)	2.11 (3.98)		
8	0.00 (0.00)	0.00 (0.00)			0.00 (0.00)	0.00 (0.00)		
9	0.00 (0.00)	0.00 (0.00)			0.00 (0.00)	0.00 (0.00)		
10	2.71 (3.79)	1.78 (2.49)			6.51 (6.00)	4.27 (3.93)		
11	2.60 (1.26)	1.70 (0.83)			3.14 (1.34)	2.06 (0.88)		
12	3.56 (3.56)	2.33 (2.33)			2.73 (2.80)	1.79 (1.84)		
13	4.00 (3.00)	2.62 (1.96)			3.60 (3.12)	2.36 (2.04)		
14	3.47 (3.40)	2.27 (2.23)			3.25 (3.34)	2.13 (2.19)		
15	3.32 (3.43)	2.18 (2.25)	156.00 (161.00)	1160.00 (1170.00)	3.09 (3.23)	2.03 (2.12)	146.00 (152.00)	1070.00 (1100.00)
16	3.23 (2.62)	2.12 (1.72)	152.00 (123.00)	1300.00 (1050.00)	2.92 (2.52)	1.91 (1.65)	138.00 (119.00)	1170.00 (1010.00)
17	3.09 (2.67)	2.03 (1.75)	146.00 (126.00)	1310.00 (1130.00)	2.75 (2.54)	1.80 (1.67)	130.00 (120.00)	1170.00 (1080.00)
18	2.90 (2.41)	1.90 (1.58)	137.00 (114.00)	1180.00 (984.00)	2.62 (2.19)	1.72 (1.44)	124.00 (104.00)	1070.00 (902.00)
19	2.92 (2.33)	1.91 (1.53)	138.00 (110.00)	1050.00 (847.00)	2.67 (2.08)	1.75 (1.36)	127.00 (98.60)	968.00 (761.00)
20	2.95 (2.03)	1.93 (1.33)	139.00 (96.10)	886.00 (629.00)	2.77 (1.93)	1.81 (1.27)	131.00 (91.60)	840.00 (601.00)
21	2.96 (2.10)	1.94 (1.38)	140.00 (99.20)	730.00 (532.00)	2.69 (1.88)	1.76 (1.23)	127.00 (89.00)	669.00 (478.00)
22	2.41 (1.73)	1.58 (1.14)	114.00 (81.90)	478.00 (349.00)	2.25 (1.68)	1.48 (1.10)	107.00 (79.90)	452.00 (343.00)
23	2.51 (1.81)	1.65 (1.19)	119.00 (85.60)	402.00 (288.00)	2.43 (1.79)	1.59 (1.17)	115.00 (84.80)	393.00 (287.00)
24	3.68 (2.88)	2.41 (1.89)	174.00 (136.00)	488.00 (383.00)	3.10 (2.37)	2.03 (1.56)	147.00 (113.00)	416.00 (319.00)
25	2.81 (2.21)	1.84 (1.45)	133.00 (105.00)	309.00 (245.00)	2.38 (2.02)	1.56 (1.33)	113.00 (96.10)	265.00 (226.00)
26	3.66 (2.90)	2.40 (1.90)	173.00 (138.00)	340.00 (269.00)	2.73 (2.16)	1.79 (1.41)	130.00 (102.00)	256.00 (203.00)
27	3.13 (2.24)	2.05 (1.47)	148.00 (106.00)	249.00 (178.00)	2.92 (2.19)	1.92 (1.43)	139.00 (104.00)	234.00 (175.00)
28	2.53 (1.93)	1.66 (1.27)	120.00 (91.60)	173.00 (132.00)	2.35 (1.85)	1.54 (1.21)	112.00 (87.80)	162.00 (127.00)
29	2.52 (1.69)	1.65 (1.11)	119.00 (80.10)	150.00 (100.00)	2.36 (1.72)	1.55 (1.13)	112.00 (81.60)	142.00 (102.00)
30	2.47 (1.67)	1.62 (1.09)	117.00 (79.20)	130.00 (87.40)	2.26 (1.66)	1.48 (1.09)	108.00 (79.20)	120.00 (87.50)
Avg	7.6	5.0	435.0	561.0	7.2	4.7	421.0	495.0
n	30	30	21	21	30	30	22	22
SD	9.9	6.5	531.0	399.0	9.1	6.0	487.0	362.0
Min	0.0	0.0	114.0	130.0	0.0	0.0	107.0	120.0
Max	30.4	19.9	1470.0	1310.0	27.8	18.2	1340.0	1170.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for July, 2008.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	2.41	(1.75)	1.58	(1.15)	114.00	(82.90)	112.00	(81.20)	2.02	(1.52)	1.33	(1.00)	96.30	(72.40)	94.90	(71.00)
2	2.35	(1.54)	1.54	(1.01)	112.00	(73.00)	98.10	(63.80)	2.15	(1.60)	1.41	(1.05)	102.00	(76.40)	90.10	(67.10)
3	2.38	(1.64)	1.56	(1.07)	113.00	(77.80)	89.50	(61.30)	2.36	(1.95)	1.55	(1.28)	112.00	(93.00)	89.20	(73.40)
4	1.96	(1.19)	1.28	(0.78)	93.20	(56.60)	66.60	(40.10)	1.59	(1.12)	1.05	(0.74)	76.10	(53.50)	54.50	(38.00)
5	2.66	(1.69)	1.74	(1.11)	127.00	(80.30)	82.50	(52.20)	2.41	(1.78)	1.58	(1.17)	115.00	(84.90)	75.30	(55.20)
6	3.45	(2.08)	2.26	(1.36)	164.00	(99.10)	98.00	(59.00)	3.01	(2.02)	1.97	(1.32)	144.00	(96.60)	85.90	(57.70)
7	4.55	(2.08)	2.98	(1.37)	217.00	(99.40)	119.00	(54.30)	3.92	(2.07)	2.57	(1.36)	188.00	(99.00)	103.00	(54.50)
8	5.97	(2.82)	3.91	(1.85)	285.00	(135.00)	145.00	(68.10)	5.33	(2.82)	3.49	(1.85)	255.00	(135.00)	130.00	(68.70)
9	6.68	(2.85)	4.38	(1.87)	319.00	(136.00)	150.00	(63.90)	6.16	(2.97)	4.04	(1.95)	296.00	(142.00)	140.00	(67.00)
10	7.11	(3.45)	4.66	(2.26)	340.00	(165.00)	150.00	(72.50)	6.40	(3.48)	4.20	(2.28)	307.00	(167.00)	136.00	(73.80)
11	7.74	(3.63)	5.08	(2.38)	370.00	(174.00)	152.00	(71.20)	6.36	(3.40)	4.17	(2.23)	305.00	(163.00)	126.00	(67.00)
12	10.20	(4.36)	6.71	(2.86)	490.00	(209.00)	189.00	(80.30)	8.76	(4.69)	5.74	(3.07)	421.00	(225.00)	163.00	(87.00)
13	13.50	(4.37)	8.85	(2.87)	647.00	(209.00)	235.00	(75.60)	11.40	(4.54)	7.50	(2.98)	550.00	(218.00)	201.00	(79.30)
14	14.00	(5.13)	9.17	(3.36)	671.00	(246.00)	231.00	(84.40)	12.40	(5.28)	8.13	(3.46)	598.00	(255.00)	206.00	(87.40)
15	15.40	(5.70)	10.10	(3.74)	738.00	(274.00)	240.00	(88.80)	14.90	(6.43)	9.80	(4.22)	721.00	(310.00)	235.00	(101.00)
16	17.50	(5.89)	11.50	(3.86)	840.00	(283.00)	260.00	(87.00)	17.10	(6.25)	11.20	(4.10)	825.00	(302.00)	256.00	(93.10)
17	17.20	(6.48)	11.30	(4.25)	829.00	(312.00)	244.00	(91.90)	17.70	(6.94)	11.60	(4.55)	856.00	(336.00)	253.00	(99.00)
18	17.90	(5.57)	11.70	(3.65)	861.00	(268.00)	242.00	(74.60)	18.40	(6.75)	12.10	(4.43)	894.00	(327.00)	251.00	(91.60)
19	20.50	(5.42)	13.40	(3.56)	988.00	(261.00)	265.00	(69.50)	18.70	(5.56)	12.30	(3.65)	908.00	(270.00)	244.00	(72.10)
20	21.70	(6.72)	14.20	(4.40)	1050.00	(324.00)	269.00	(82.80)	20.50	(7.01)	13.40	(4.60)	995.00	(340.00)	256.00	(87.20)
21	25.20	(6.11)	16.50	(4.01)	1220.00	(295.00)	300.00	(72.70)	23.70	(6.88)	15.60	(4.51)	1150.00	(335.00)	286.00	(82.70)
22	25.80	(5.94)	16.90	(3.90)	1250.00	(288.00)	297.00	(67.80)	24.20	(7.12)	15.90	(4.67)	1180.00	(347.00)	281.00	(82.20)
23	24.30	(5.13)	15.90	(3.37)	1180.00	(249.00)	269.00	(56.50)	23.60	(6.00)	15.50	(3.94)	1150.00	(293.00)	264.00	(67.20)
24	23.70	(5.12)	15.50	(3.35)	1150.00	(248.00)	254.00	(53.70)	22.30	(5.40)	14.60	(3.54)	1090.00	(264.00)	242.00	(57.80)
25	28.30	(5.31)	18.50	(3.48)	1370.00	(258.00)	294.00	(53.80)	25.60	(5.67)	16.80	(3.72)	1260.00	(279.00)	269.00	(58.90)
26	28.40	(5.63)	18.60	(3.69)	1380.00	(274.00)	286.00	(55.50)	25.60	(6.09)	16.80	(3.99)	1260.00	(300.00)	261.00	(61.50)
27	27.50	(4.70)	18.10	(3.08)	1340.00	(229.00)	270.00	(46.00)	23.50	(5.51)	15.40	(3.62)	1160.00	(272.00)	233.00	(54.80)
28	25.40	(5.95)	16.70	(3.90)	1240.00	(290.00)	243.00	(56.60)	23.60	(6.87)	15.50	(4.50)	1170.00	(340.00)	229.00	(66.60)
29	22.70	(5.28)	14.90	(3.46)	1110.00	(258.00)	211.00	(49.40)	21.20	(6.66)	13.90	(4.37)	1050.00	(331.00)	201.00	(63.30)
30	22.40	(3.64)	14.70	(2.39)	1100.00	(178.00)	204.00	(33.30)	20.00	(4.76)	13.10	(3.12)	1000.00	(238.00)	186.00	(44.50)
31	22.90	(5.68)	15.00	(3.72)	1120.00	(278.00)	204.00	(50.20)	19.30	(5.13)	12.60	(3.36)	972.00	(259.00)	177.00	(47.30)
Avg	15.2		10.0		736.0		202.0		14.0		9.2		684.0		188.0	
n	31		31		31		31		31		31		31		31	
SD	9.2		6.0		447.0		71.7		8.5		5.6		421.0		70.7	
Min	2.0		1.3		93.2		66.6		1.6		1.1		76.1		54.5	
Max	28.4		18.6		1380.0		300.0		25.6		16.8		1260.0		286.0	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for August, 2008.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	18.60 (25.70)	12.20 (16.80)			19.60 (23.70)	12.80 (15.50)		
2	50.90 (86.20)	33.40 (56.50)			35.20 (39.50)	23.10 (25.90)		
3	8.78 (1.06)	5.75 (0.70)			8.83 (1.02)	5.79 (0.67)		
4	6.02 (1.45)	3.95 (0.95)			5.52 (1.30)	3.62 (0.85)		
5	3.24 (1.24)	2.12 (0.81)			2.80 (0.93)	1.83 (0.61)		
6	2.41 (2.10)	1.58 (1.38)			1.84 (1.69)	1.21 (1.11)		
7	2.45 (2.89)	1.61 (1.89)			2.24 (2.39)	1.47 (1.57)		
8	2.76 (1.62)	1.81 (1.06)			2.39 (1.33)	1.56 (0.88)		
9	2.10 (0.97)	1.38 (0.63)			1.71 (0.80)	1.12 (0.53)		
10	1.88 (1.81)	1.23 (1.19)			1.65 (1.57)	1.08 (1.03)		
11	1.85 (2.03)	1.21 (1.33)			1.79 (1.72)	1.18 (1.13)		
12	1.83 (1.88)	1.20 (1.23)	85.30 (87.70)	621.00 (631.00)	1.95 (1.88)	1.28 (1.23)	91.20 (87.90)	664.00 (637.00)
13	1.86 (1.72)	1.22 (1.13)	86.80 (80.20)	731.00 (666.00)	2.04 (1.91)	1.34 (1.26)	95.40 (89.50)	804.00 (748.00)
14	1.80 (1.44)	1.18 (0.95)	84.20 (67.50)	756.00 (605.00)	1.90 (1.68)	1.25 (1.10)	89.00 (78.70)	799.00 (707.00)
15	1.67 (1.22)	1.10 (0.80)	78.30 (57.20)	681.00 (502.00)	1.68 (1.32)	1.10 (0.87)	78.90 (62.10)	687.00 (545.00)
16	1.64 (1.17)	1.07 (0.77)	76.60 (55.00)	594.00 (430.00)	1.56 (1.21)	1.02 (0.79)	73.10 (56.70)	568.00 (445.00)
17	1.45 (1.15)	0.95 (0.76)	68.00 (54.10)	442.00 (356.00)	1.38 (1.18)	0.90 (0.78)	64.70 (55.60)	420.00 (362.00)
18								
19								
20								
21	2.10 (1.44)	1.38 (0.95)	98.60 (67.80)	284.00 (198.00)	1.98 (1.59)	1.30 (1.04)	93.10 (74.80)	268.00 (217.00)
22	2.26 (1.47)	1.48 (0.97)	106.00 (69.10)	253.00 (167.00)	2.11 (1.57)	1.38 (1.03)	99.20 (74.00)	236.00 (177.00)
23	2.39 (1.63)	1.56 (1.07)	112.00 (76.50)	224.00 (154.00)	2.03 (1.68)	1.33 (1.10)	95.40 (79.10)	191.00 (158.00)
24	2.68 (1.60)	1.76 (1.05)	126.00 (75.10)	215.00 (129.00)	2.14 (1.62)	1.40 (1.06)	101.00 (76.30)	172.00 (130.00)
25	3.37 (2.25)	2.21 (1.47)	158.00 (106.00)	233.00 (156.00)	2.30 (1.76)	1.51 (1.16)	108.00 (83.00)	159.00 (122.00)
26	2.99 (1.98)	1.96 (1.30)	140.00 (93.10)	179.00 (119.00)	2.24 (1.74)	1.47 (1.14)	106.00 (82.10)	135.00 (104.00)
27	3.62 (2.19)	2.37 (1.43)	170.00 (103.00)	191.00 (116.00)	2.86 (2.06)	1.88 (1.35)	135.00 (97.10)	151.00 (109.00)
28	4.05 (2.22)	2.66 (1.45)	191.00 (104.00)	190.00 (104.00)	3.03 (2.03)	1.99 (1.33)	143.00 (95.70)	142.00 (95.30)
29	4.87 (2.53)	3.19 (1.66)	229.00 (119.00)	203.00 (105.00)	3.55 (2.26)	2.33 (1.48)	167.00 (107.00)	149.00 (95.00)
30								
31								
Avg	5.4	3.5	121.0	387.0	4.5	2.9	103.0	370.0
n	26	26	15	15	26	26	15	15
SD	9.7	6.4	46.1	217.0	7.1	4.7	26.2	252.0
Min	1.5	1.0	68.0	179.0	1.4	0.9	64.7	135.0
Max	50.9	33.4	229.0	756.0	35.2	23.1	167.0	804.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for November, 2008.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
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20	20.50 (10.10)	13.40 (6.60)	979.00 (480.00)	321.00 (157.00)	20.50 (10.60)	13.40 (6.93)	975.00 (503.00)	316.00 (162.00)
21	20.40 (12.30)	13.30 (8.10)	972.00 (590.00)	303.00 (184.00)	20.90 (13.90)	13.70 (9.10)	996.00 (661.00)	307.00 (205.00)
22	21.10 (11.50)	13.80 (7.56)	1010.00 (551.00)	299.00 (164.00)	20.60 (11.90)	13.50 (7.84)	980.00 (569.00)	288.00 (168.00)
23	23.30 (11.60)	15.20 (7.58)	1110.00 (553.00)	314.00 (157.00)	22.20 (11.50)	14.60 (7.51)	1060.00 (545.00)	296.00 (153.00)
24	23.50 (11.10)	15.40 (7.26)	1120.00 (530.00)	304.00 (143.00)	21.60 (9.77)	14.20 (6.41)	1030.00 (465.00)	276.00 (125.00)
25	24.10 (8.51)	15.80 (5.58)	1150.00 (407.00)	299.00 (106.00)				
26	24.20 (5.66)	15.80 (3.71)	1160.00 (271.00)	287.00 (67.90)	24.20 (5.85)	15.90 (3.84)	1160.00 (279.00)	284.00 (69.30)
27	23.70 (1.94)	15.50 (1.27)	1130.00 (93.00)	271.00 (22.20)	25.20 (2.08)	16.50 (1.37)	1200.00 (99.30)	285.00 (23.90)
28	22.10 (2.16)	14.50 (1.42)	1060.00 (103.00)	244.00 (24.80)	22.00 (2.77)	14.40 (1.82)	1050.00 (132.00)	240.00 (31.50)
29	22.30 (4.78)	14.60 (3.14)	1070.00 (229.00)	238.00 (50.30)	21.10 (6.63)	13.80 (4.35)	1000.00 (316.00)	222.00 (69.30)
30	24.00 (5.58)	15.70 (3.66)	1150.00 (268.00)	248.00 (57.60)	23.30 (6.16)	15.30 (4.04)	1110.00 (294.00)	237.00 (62.80)
Avg	22.6	14.8	1080.0	284.0	22.2	14.5	1060.0	275.0
n	11	11	11	11	10	10	10	10
SD	1.4	0.9	67.4	28.2	1.5	1.0	73.4	30.0
Min	20.4	13.3	972.0	238.0	20.5	13.4	975.0	222.0
Max	24.2	15.8	1160.0	321.0	25.2	16.5	1200.0	316.0

US EPA ARCHIVE DOCUMENT

Table E11. Daily means (SD) of NH3 emissions at Site CA1B for December, 2008.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	24.40 (4.06)	16.00 (2.66)	1170.00 (195.00)	244.00 (40.60)	23.90 (4.00)	15.70 (2.62)	1140.00 (191.00)	236.00 (39.40)
2	26.50 (3.41)	17.40 (2.24)	1270.00 (164.00)	258.00 (32.80)	26.20 (3.79)	17.10 (2.49)	1250.00 (181.00)	251.00 (36.00)
3	27.20 (6.78)	17.80 (4.44)	1310.00 (326.00)	257.00 (63.20)	25.60 (3.64)	16.80 (2.39)	1220.00 (174.00)	239.00 (34.30)
4	16.70 (19.40)	10.90 (12.70)			15.70 (14.90)	10.30 (9.75)		
5	4.62 (0.58)	3.03 (0.38)			4.60 (0.57)	3.02 (0.38)		
6	3.58 (0.34)	2.35 (0.22)			3.42 (0.34)	2.24 (0.23)		
7	3.13 (0.45)	2.05 (0.29)			3.57 (0.66)	2.34 (0.43)		
8	2.92 (3.02)	1.92 (1.98)			2.84 (3.02)	1.86 (1.98)		
9	2.33 (4.83)	1.53 (3.16)			3.03 (5.97)	1.99 (3.91)		
10	2.50 (5.23)	1.64 (3.43)			2.69 (5.59)	1.76 (3.67)		
11	3.27 (6.57)	2.14 (4.31)			3.54 (7.12)	2.32 (4.67)		
12	3.30 (6.64)	2.16 (4.35)			3.55 (7.12)	2.33 (4.67)		
13	2.93 (5.71)	1.92 (3.75)	138.00 (270.00)	1010.00 (1950.00)	3.24 (5.70)	2.12 (3.74)	152.00 (268.00)	1090.00 (1900.00)
14	2.74 (4.39)	1.79 (2.88)	129.00 (208.00)	1090.00 (1750.00)	2.96 (4.38)	1.94 (2.87)	140.00 (206.00)	1160.00 (1720.00)
15	3.03 (4.40)	1.99 (2.89)	143.00 (208.00)	1290.00 (1870.00)	3.26 (4.46)	2.14 (2.93)	154.00 (210.00)	1380.00 (1890.00)
16	3.03 (3.96)	1.98 (2.60)	143.00 (187.00)	1240.00 (1630.00)	3.24 (4.54)	2.12 (2.98)	153.00 (215.00)	1340.00 (1870.00)
17	2.56 (3.14)	1.68 (2.06)	121.00 (149.00)	935.00 (1150.00)	2.63 (4.08)	1.72 (2.68)	124.00 (193.00)	978.00 (1520.00)
18	2.50 (3.13)	1.64 (2.06)	119.00 (149.00)	766.00 (954.00)	2.55 (4.32)	1.67 (2.83)	121.00 (204.00)	797.00 (1340.00)
19	2.67 (3.33)	1.75 (2.18)	127.00 (158.00)	669.00 (838.00)	2.64 (4.27)	1.73 (2.80)	125.00 (202.00)	678.00 (1110.00)
20	2.30 (2.90)	1.51 (1.90)	109.00 (137.00)	466.00 (589.00)	2.20 (3.63)	1.44 (2.38)	104.00 (172.00)	458.00 (756.00)
21	3.80 (4.79)	2.49 (3.14)	180.00 (227.00)	625.00 (785.00)	3.79 (4.96)	2.48 (3.25)	180.00 (235.00)	635.00 (830.00)
22	4.24 (5.33)	2.78 (3.50)	201.00 (253.00)	565.00 (708.00)	3.85 (4.92)	2.53 (3.23)	183.00 (234.00)	536.00 (685.00)
23	4.00 (5.41)	2.63 (3.55)	190.00 (257.00)	450.00 (609.00)	3.36 (4.47)	2.20 (2.93)	160.00 (212.00)	387.00 (516.00)
24	3.87 (4.89)	2.54 (3.21)	184.00 (232.00)	365.00 (462.00)	3.21 (4.01)	2.11 (2.63)	153.00 (190.00)	310.00 (388.00)
25	3.34 (4.15)	2.19 (2.72)	159.00 (197.00)	269.00 (334.00)	2.84 (3.52)	1.86 (2.31)	135.00 (167.00)	234.00 (290.00)
26	3.48 (4.03)	2.28 (2.64)	165.00 (191.00)	241.00 (279.00)	2.73 (3.13)	1.79 (2.05)	130.00 (149.00)	193.00 (222.00)
27	3.93 (3.90)	2.57 (2.56)	187.00 (185.00)	237.00 (235.00)	2.86 (2.84)	1.87 (1.87)	136.00 (135.00)	176.00 (174.00)
28	4.28 (4.16)	2.81 (2.73)	203.00 (198.00)	227.00 (219.00)	2.98 (2.82)	1.96 (1.85)	142.00 (134.00)	161.00 (152.00)
29	4.86 (4.39)	3.19 (2.88)	231.00 (208.00)	229.00 (207.00)	3.15 (3.01)	2.07 (1.98)	150.00 (143.00)	151.00 (144.00)
30	5.70 (5.31)	3.74 (3.48)	271.00 (253.00)	240.00 (222.00)	3.43 (3.49)	2.25 (2.29)	163.00 (166.00)	146.00 (148.00)
31	7.45 (7.20)	4.88 (4.72)	354.00 (342.00)	282.00 (272.00)	4.38 (4.25)	2.87 (2.79)	209.00 (203.00)	168.00 (163.00)
Avg	6.2	4.0	323.0	543.0	5.7	3.8	292.0	532.0
n	31	31	22	22	31	31	22	22
SD	7.0	4.6	373.0	351.0	6.8	4.4	363.0	404.0
Min	2.3	1.5	109.0	227.0	2.2	1.4	104.0	146.0
Max	27.2	17.8	1310.0	1290.0	26.2	17.1	1250.0	1380.0

US EPA ARCHIVE DOCUMENT

Table E11. Daily means (SD) of NH3 emissions at Site CA1B for January, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	10.10 (8.65)	6.64 (5.67)	481.00 (412.00)	347.00 (296.00)	6.28 (5.43)	4.12 (3.56)	300.00 (259.00)	218.00 (188.00)
2	13.80 (10.50)	9.02 (6.91)	654.00 (502.00)	430.00 (329.00)	9.36 (7.20)	6.14 (4.72)	446.00 (344.00)	296.00 (227.00)
3	15.20 (10.70)	9.94 (7.04)	722.00 (511.00)	435.00 (309.00)	11.00 (7.65)	7.19 (5.02)	523.00 (365.00)	319.00 (223.00)
4	15.40 (11.80)	10.10 (7.74)	734.00 (562.00)	407.00 (313.00)	12.20 (9.28)	7.99 (6.09)	582.00 (443.00)	326.00 (248.00)
5	15.20 (13.70)	9.95 (8.99)	723.00 (653.00)	371.00 (335.00)	13.70 (12.50)	8.99 (8.18)	655.00 (596.00)	339.00 (307.00)
6	15.90 (14.30)	10.40 (9.39)	759.00 (683.00)	361.00 (325.00)	15.30 (13.80)	10.10 (9.04)	733.00 (659.00)	352.00 (317.00)
7	16.90 (18.60)	11.10 (12.20)	806.00 (889.00)	357.00 (394.00)	16.20 (18.00)	10.60 (11.80)	774.00 (862.00)	346.00 (386.00)
8	18.80 (16.30)	12.30 (10.70)	895.00 (776.00)	371.00 (322.00)	16.40 (14.60)	10.80 (9.60)	786.00 (700.00)	329.00 (293.00)
9	19.50 (11.90)	12.80 (7.78)	930.00 (566.00)	362.00 (222.00)	15.60 (9.99)	10.20 (6.55)	745.00 (478.00)	292.00 (189.00)
10	18.30 (12.20)	12.00 (7.99)	873.00 (581.00)	319.00 (213.00)	14.90 (9.97)	9.78 (6.53)	714.00 (477.00)	263.00 (176.00)
11	19.50 (11.80)	12.80 (7.74)	931.00 (564.00)	322.00 (196.00)	16.20 (9.68)	10.60 (6.35)	777.00 (463.00)	271.00 (162.00)
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31	5.10 (10.00)	3.34 (6.59)			5.36 (10.60)	3.51 (6.93)		
Avg	15.3	10.0	773.0	371.0	12.7	8.3	640.0	305.0
n	12	12	11	11	12	12	11	11
SD	4.0	2.6	128.0	36.8	3.8	2.5	152.0	39.1
Min	5.1	3.3	481.0	319.0	5.4	3.5	300.0	218.0
Max	19.5	12.8	931.0	435.0	16.4	10.8	786.0	352.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for February, 2009.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	4.28	(8.59)	2.80	(5.63)					4.43	(8.92)	2.91	(5.85)				
2	3.37	(7.52)	2.21	(4.93)					3.55	(6.88)	2.33	(4.51)				
3	3.04	(6.14)	2.00	(4.03)					3.23	(4.10)	2.12	(2.69)				
4	13.50	(24.60)	8.87	(16.10)					9.01	(14.70)	5.91	(9.66)				
5	4.80	(9.34)	3.15	(6.13)					2.73	(4.50)	1.79	(2.95)				
6	2.43	(4.61)	1.59	(3.03)					2.67	(5.35)	1.75	(3.51)				
7	2.62	(5.35)	1.72	(3.51)					2.85	(5.80)	1.87	(3.80)				
8	2.72	(5.45)	1.78	(3.58)					2.70	(5.43)	1.77	(3.56)				
9									2.51	(4.96)	1.65	(3.25)				
10	2.66	(5.39)	1.75	(3.54)	126.00	(254.00)	909.00	(1850.00)	2.79	(4.62)	1.83	(3.03)	130.00	(215.00)	936.00	(1560.00)
11	2.76	(5.57)	1.81	(3.65)	130.00	(263.00)	1080.00	(2180.00)	2.95	(4.22)	1.93	(2.77)	138.00	(197.00)	1150.00	(1650.00)
12									3.07	(4.05)	2.02	(2.65)	144.00	(189.00)	1290.00	(1690.00)
13	2.73	(4.84)	1.79	(3.17)	129.00	(229.00)	1130.00	(2010.00)	2.78	(4.19)	1.82	(2.75)	130.00	(196.00)	1140.00	(1710.00)
14	2.59	(3.35)	1.70	(2.20)	123.00	(159.00)	958.00	(1240.00)	2.50	(3.24)	1.64	(2.12)	117.00	(152.00)	916.00	(1200.00)
15	2.45	(3.05)	1.61	(2.00)	116.00	(145.00)	762.00	(946.00)	2.32	(2.88)	1.52	(1.89)	109.00	(135.00)	717.00	(891.00)
16	2.67	(3.28)	1.75	(2.15)	127.00	(156.00)	681.00	(835.00)	2.55	(3.14)	1.67	(2.06)	119.00	(147.00)	646.00	(796.00)
17	3.53	(5.06)	2.32	(3.32)	168.00	(241.00)	723.00	(1010.00)	3.37	(4.81)	2.21	(3.15)	158.00	(226.00)	686.00	(955.00)
18	4.20	(5.53)	2.75	(3.63)	200.00	(263.00)	706.00	(940.00)	3.98	(5.27)	2.61	(3.46)	187.00	(247.00)	667.00	(896.00)
19	4.58	(5.16)	3.01	(3.38)	218.00	(245.00)	632.00	(712.00)	3.85	(4.46)	2.53	(2.92)	181.00	(210.00)	529.00	(614.00)
20	4.49	(5.81)	2.94	(3.81)	214.00	(277.00)	513.00	(662.00)	3.65	(4.79)	2.40	(3.14)	172.00	(225.00)	416.00	(547.00)
21	4.22	(5.12)	2.77	(3.36)	201.00	(244.00)	407.00	(497.00)	3.51	(4.25)	2.30	(2.79)	165.00	(200.00)	336.00	(408.00)
22	4.21	(5.05)	2.76	(3.31)	200.00	(241.00)	344.00	(411.00)	3.43	(4.12)	2.25	(2.70)	161.00	(194.00)	279.00	(335.00)
23	5.19	(5.47)	3.40	(3.59)	248.00	(261.00)	366.00	(384.00)	4.15	(4.41)	2.72	(2.89)	196.00	(208.00)	291.00	(309.00)
24	5.73	(5.27)	3.76	(3.45)	274.00	(251.00)	352.00	(325.00)	4.49	(4.10)	2.95	(2.69)	212.00	(194.00)	274.00	(252.00)
25	6.29	(5.36)	4.12	(3.52)	300.00	(256.00)	340.00	(288.00)	4.72	(3.90)	3.09	(2.56)	223.00	(184.00)	254.00	(209.00)
26	6.69	(5.18)	4.38	(3.40)	319.00	(248.00)	320.00	(250.00)	4.93	(3.89)	3.23	(2.55)	233.00	(184.00)	235.00	(187.00)
27	6.86	(5.24)	4.50	(3.43)	328.00	(250.00)	293.00	(222.00)	4.91	(3.73)	3.22	(2.45)	232.00	(177.00)	209.00	(158.00)
28	9.08	(6.25)	5.96	(4.10)	434.00	(299.00)	348.00	(238.00)	6.05	(4.27)	3.97	(2.80)	287.00	(203.00)	231.00	(163.00)
Avg	4.5		3.0		214.0		603.0		3.7		2.4		173.0		589.0	
n	26		26		18		18		28		28		19		19	
SD	2.4		1.6		86.6		271.0		1.4		0.9		46.6		345.0	
Min	2.4		1.6		116.0		293.0		2.3		1.5		109.0		209.0	
Max	13.5		8.9		434.0		1130.0		9.0		5.9		287.0		1290.0	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for March, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	11.30 (6.72)	7.41 (4.41)	540.00 (322.00)	393.00 (234.00)	7.42 (4.89)	4.87 (3.21)	352.00 (232.00)	258.00 (169.00)
2	12.10 (6.33)	7.92 (4.15)	579.00 (303.00)	385.00 (203.00)	9.06 (4.54)	5.94 (2.98)	430.00 (216.00)	287.00 (145.00)
3	10.40 (7.77)	6.79 (5.09)	496.00 (372.00)	301.00 (226.00)	8.69 (6.06)	5.70 (3.97)	413.00 (288.00)	252.00 (175.00)
4	11.40 (8.89)	7.47 (5.83)	546.00 (426.00)	305.00 (239.00)	9.10 (7.15)	5.97 (4.69)	433.00 (340.00)	242.00 (191.00)
5	11.80 (8.56)	7.73 (5.61)	566.00 (410.00)	292.00 (212.00)	9.62 (7.18)	6.31 (4.71)	458.00 (342.00)	237.00 (177.00)
6	11.70 (8.25)	7.66 (5.41)	561.00 (396.00)	269.00 (190.00)	9.47 (7.11)	6.21 (4.66)	451.00 (338.00)	217.00 (163.00)
7	12.50 (9.06)	8.22 (5.94)	602.00 (435.00)	268.00 (194.00)	9.70 (6.77)	6.36 (4.44)	462.00 (323.00)	207.00 (145.00)
8	13.90 (8.82)	9.12 (5.79)	668.00 (424.00)	278.00 (177.00)	10.20 (6.42)	6.66 (4.21)	484.00 (306.00)	203.00 (129.00)
9	14.90 (10.80)	9.78 (7.05)	718.00 (517.00)	280.00 (203.00)	10.50 (7.71)	6.87 (5.06)	500.00 (368.00)	196.00 (145.00)
10	16.60 (11.90)	10.90 (7.82)	801.00 (574.00)	295.00 (211.00)	12.90 (8.95)	8.48 (5.87)	618.00 (428.00)	228.00 (158.00)
11	18.70 (12.30)	12.20 (8.08)	898.00 (593.00)	312.00 (207.00)	16.10 (10.30)	10.50 (6.73)	768.00 (491.00)	267.00 (171.00)
12	20.40 (11.80)	13.40 (7.72)	983.00 (568.00)	323.00 (187.00)	19.00 (10.40)	12.50 (6.79)	912.00 (496.00)	300.00 (164.00)
13	20.70 (10.90)	13.60 (7.15)	999.00 (526.00)	311.00 (165.00)	18.90 (8.95)	12.40 (5.87)	905.00 (429.00)	283.00 (135.00)
14	22.30 (10.90)	14.70 (7.16)	1080.00 (527.00)	320.00 (156.00)	20.70 (10.30)	13.60 (6.73)	992.00 (492.00)	295.00 (146.00)
15	23.50 (8.26)	15.40 (5.41)	1130.00 (399.00)	321.00 (114.00)	22.80 (8.91)	14.90 (5.84)	1090.00 (427.00)	310.00 (122.00)
16	25.10 (7.42)	16.40 (4.86)	1210.00 (359.00)	328.00 (98.10)	23.90 (7.20)	15.70 (4.72)	1150.00 (346.00)	311.00 (95.00)
17	24.00 (6.84)	15.70 (4.48)	1160.00 (331.00)	300.00 (87.20)	22.80 (5.47)	14.90 (3.59)	1100.00 (263.00)	285.00 (69.80)
18	23.00 (6.52)	15.10 (4.27)	1110.00 (316.00)	277.00 (78.60)	21.60 (5.79)	14.20 (3.80)	1040.00 (279.00)	259.00 (69.40)
19	23.80 (9.11)	15.60 (5.98)	1160.00 (442.00)	277.00 (106.00)	21.40 (7.07)	14.00 (4.63)	1030.00 (341.00)	247.00 (82.10)
20	22.90 (7.22)	15.00 (4.74)	1110.00 (351.00)	256.00 (81.00)	20.90 (7.40)	13.70 (4.85)	1010.00 (357.00)	232.00 (82.70)
21	22.50 (5.80)	14.70 (3.80)	1090.00 (282.00)	243.00 (62.80)	20.00 (5.43)	13.10 (3.56)	965.00 (262.00)	215.00 (58.40)
22	21.30 (5.92)	14.00 (3.88)	1040.00 (288.00)	223.00 (62.90)	19.20 (6.92)	12.60 (4.54)	927.00 (335.00)	200.00 (72.90)
23	19.50 (6.34)	12.80 (4.16)	950.00 (310.00)	198.00 (64.50)	17.30 (6.37)	11.30 (4.17)	837.00 (309.00)	175.00 (64.60)
24	21.30 (7.78)	14.00 (5.10)	1040.00 (380.00)	211.00 (77.10)	18.00 (6.76)	11.80 (4.43)	872.00 (328.00)	177.00 (66.60)
25	23.90 (7.72)	15.70 (5.06)	1170.00 (379.00)	231.00 (74.80)	20.10 (6.72)	13.20 (4.41)	977.00 (327.00)	192.00 (64.70)
26	21.60 (6.05)	14.10 (3.97)	1060.00 (297.00)	203.00 (57.80)	19.70 (5.25)	12.90 (3.44)	960.00 (256.00)	184.00 (49.60)
27	16.20 (16.00)	10.60 (10.50)			16.50 (4.23)	10.80 (2.77)	802.00 (206.00)	150.00 (39.10)
28	12.20 (21.40)	7.98 (14.00)			12.20 (8.14)	8.02 (5.34)		
29	11.80 (3.02)	7.75 (1.98)			10.70 (1.89)	7.05 (1.24)		
30	3.93 (8.83)	2.58 (5.79)			4.94 (10.10)	3.24 (6.64)		
31	3.43 (3.27)	2.25 (2.14)			2.97 (2.96)	1.95 (1.94)		
Avg	17.0	11.2	895.0	285.0	15.0	9.9	775.0	237.0
n	31	31	26	26	31	31	27	27
SD	6.0	3.9	243.0	48.0	5.9	3.8	258.0	44.4
Min	3.4	2.3	496.0	198.0	3.0	2.0	352.0	150.0
Max	25.1	16.4	1210.0	393.0	23.9	15.7	1150.0	311.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for April, 2009.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	1.19	(1.32)	0.78	(0.86)					1.28	(1.43)	0.84	(0.94)				
2	2.69	(5.01)	1.76	(3.29)					2.58	(2.91)	1.69	(1.91)				
3	1.38	(0.19)	0.90	(0.12)					1.53	(0.22)	1.00	(0.14)				
4	0.95	(0.12)	0.62	(0.08)					1.09	(0.16)	0.71	(0.10)				
5	0.84	(0.19)	0.55	(0.12)					0.97	(0.16)	0.64	(0.11)				
6	0.92	(0.21)	0.60	(0.14)					1.10	(0.46)	0.72	(0.30)				
7	0.47	(0.56)	0.31	(0.37)					0.38	(0.40)	0.25	(0.26)				
8	0.06	(0.21)	0.04	(0.14)					0.05	(0.13)	0.04	(0.09)				
9	0.06	(0.14)	0.04	(0.09)					0.08	(0.14)	0.05	(0.09)				
10																
11	0.06	(0.09)	0.04	(0.06)	2.69	(4.01)	19.50	(29.10)	0.07	(0.14)	0.05	(0.09)	3.34	(6.74)	24.10	(48.90)
12	0.09	(0.15)	0.06	(0.10)	4.14	(6.90)	34.90	(58.30)	0.11	(0.21)	0.07	(0.14)	5.09	(9.74)	42.60	(81.80)
13	0.09	(0.14)	0.06	(0.09)	4.39	(6.48)	39.40	(58.30)	0.10	(0.20)	0.07	(0.13)	4.77	(9.61)	42.80	(86.30)
14	0.07	(0.11)	0.05	(0.07)	3.24	(5.21)	28.30	(45.30)	0.08	(0.16)	0.05	(0.10)	3.71	(7.33)	32.40	(64.00)
15	0.07	(0.14)	0.05	(0.09)	3.44	(6.82)	26.70	(52.70)	0.09	(0.18)	0.06	(0.12)	4.37	(8.38)	33.90	(64.80)
16	0.12	(0.20)	0.08	(0.13)	5.54	(9.46)	36.10	(61.70)	0.14	(0.21)	0.09	(0.14)	6.57	(9.76)	43.10	(64.30)
17	0.19	(0.26)	0.13	(0.17)	9.04	(12.40)	48.20	(66.20)	0.21	(0.26)	0.13	(0.17)	9.72	(12.10)	51.90	(64.80)
18	0.30	(0.29)	0.20	(0.19)	14.10	(13.70)	61.10	(59.90)	0.31	(0.29)	0.20	(0.19)	14.60	(14.00)	63.30	(61.00)
19	0.38	(0.31)	0.25	(0.20)	18.10	(14.70)	64.00	(53.00)	0.35	(0.30)	0.23	(0.20)	16.80	(14.40)	59.50	(52.50)
20																
21																
22																
23																
24																
25																
26																
27																
28																
29	0.84	(0.60)	0.55	(0.39)	40.20	(28.60)	32.30	(22.90)	0.74	(0.57)	0.49	(0.37)	35.50	(27.00)	28.50	(21.60)
30	1.37	(0.84)	0.90	(0.55)	65.30	(40.20)	47.30	(29.10)	0.91	(0.59)	0.60	(0.39)	43.50	(28.40)	31.60	(20.70)
Avg	0.6		0.4		15.5		39.8		0.6		0.4		13.4		41.2	
n	20		20		11		11		20		20		11		11	
SD	0.7		0.4		19.0		13.4		0.6		0.4		13.1		12.1	
Min	0.1		0.0		2.7		19.5		0.1		0.0		3.3		24.1	
Max	2.7		1.8		65.3		64.0		2.6		1.7		43.5		63.3	

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for May, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	2.64 (1.69)	1.73 (1.11)	126.00 (80.80)	83.00 (52.20)	1.49 (1.01)	0.97 (0.66)	71.00 (48.20)	46.90 (31.30)
2	6.07 (4.45)	3.98 (2.92)	290.00 (213.00)	176.00 (127.00)	3.41 (2.77)	2.24 (1.82)	163.00 (133.00)	98.50 (79.20)
3	9.23 (5.10)	6.05 (3.35)	442.00 (244.00)	246.00 (137.00)	5.85 (3.35)	3.84 (2.20)	280.00 (160.00)	156.00 (89.30)
4	11.90 (4.81)	7.79 (3.16)	569.00 (231.00)	294.00 (120.00)	8.00 (3.52)	5.24 (2.31)	383.00 (168.00)	198.00 (87.60)
5	13.20 (5.17)	8.64 (3.39)	631.00 (248.00)	303.00 (120.00)	9.54 (4.40)	6.26 (2.88)	457.00 (211.00)	219.00 (101.00)
6	13.40 (5.67)	8.79 (3.72)	643.00 (272.00)	287.00 (123.00)	9.66 (4.75)	6.34 (3.11)	463.00 (228.00)	207.00 (103.00)
7	13.50 (6.05)	8.84 (3.97)	647.00 (290.00)	270.00 (122.00)	9.90 (4.62)	6.49 (3.03)	475.00 (222.00)	198.00 (93.20)
8	12.30 (5.01)	8.04 (3.29)	589.00 (241.00)	230.00 (95.30)	9.71 (4.28)	6.37 (2.80)	466.00 (205.00)	182.00 (81.00)
9	12.80 (5.33)	8.42 (3.49)	617.00 (256.00)	227.00 (94.80)	9.84 (4.17)	6.45 (2.73)	473.00 (200.00)	174.00 (74.10)
10	13.10 (5.18)	8.61 (3.40)	631.00 (249.00)	219.00 (86.90)	10.90 (3.99)	7.13 (2.61)	522.00 (192.00)	181.00 (66.60)
11	11.70 (4.69)	7.65 (3.08)	562.00 (226.00)	185.00 (74.20)	11.40 (4.18)	7.50 (2.74)	550.00 (201.00)	181.00 (66.20)
12	12.90 (4.27)	8.49 (2.80)	624.00 (206.00)	194.00 (64.10)	11.50 (3.59)	7.51 (2.35)	552.00 (173.00)	172.00 (53.80)
13	15.70 (4.75)	10.30 (3.12)	758.00 (229.00)	225.00 (68.00)	13.30 (4.21)	8.73 (2.76)	642.00 (203.00)	191.00 (60.40)
14	16.40 (4.93)	10.70 (3.23)	789.00 (238.00)	223.00 (67.00)	14.80 (4.85)	9.73 (3.18)	716.00 (234.00)	203.00 (66.10)
15	19.70 (4.99)	12.90 (3.27)	950.00 (241.00)	257.00 (64.80)	17.20 (4.08)	11.30 (2.68)	831.00 (197.00)	225.00 (52.90)
16	22.80 (5.33)	15.00 (3.49)	1100.00 (258.00)	285.00 (65.00)	20.60 (4.71)	13.50 (3.09)	995.00 (228.00)	257.00 (57.60)
17	24.60 (3.37)	16.10 (2.21)	1190.00 (163.00)	295.00 (39.40)	23.00 (3.53)	15.10 (2.32)	1120.00 (171.00)	277.00 (41.10)
18	22.20 (3.77)	14.50 (2.47)	1070.00 (182.00)	256.00 (42.60)	21.60 (3.30)	14.10 (2.16)	1050.00 (160.00)	250.00 (36.90)
19	19.60 (3.85)	12.80 (2.52)	948.00 (186.00)	219.00 (42.90)	19.10 (4.35)	12.50 (2.85)	929.00 (211.00)	214.00 (48.50)
20	18.20 (4.12)	11.90 (2.70)	883.00 (200.00)	196.00 (44.20)	17.90 (3.77)	11.70 (2.47)	869.00 (183.00)	193.00 (40.60)
21	20.50 (4.49)	13.50 (2.94)	997.00 (218.00)	214.00 (46.20)	20.40 (3.94)	13.40 (2.58)	996.00 (193.00)	214.00 (40.90)
22	23.00 (5.59)	15.10 (3.67)	1120.00 (272.00)	233.00 (55.90)	22.50 (5.26)	14.80 (3.45)	1110.00 (258.00)	230.00 (53.10)
23	21.80 (5.58)	14.30 (3.66)	1060.00 (272.00)	215.00 (54.60)	21.60 (4.67)	14.10 (3.06)	1060.00 (230.00)	214.00 (46.10)
24	22.90 (5.02)	15.00 (3.29)	1120.00 (245.00)	220.00 (47.90)	22.20 (3.95)	14.50 (2.59)	1100.00 (195.00)	215.00 (38.00)
25	24.80 (5.43)	16.30 (3.56)	1210.00 (265.00)	232.00 (50.20)	24.00 (4.89)	15.70 (3.21)	1190.00 (242.00)	227.00 (45.70)
26	21.40 (5.64)	14.00 (3.70)	1040.00 (275.00)	195.00 (51.80)	20.70 (4.90)	13.60 (3.21)	1030.00 (243.00)	192.00 (46.10)
27	29.00 (32.60)	19.00 (21.40)			23.90 (19.00)	15.70 (12.40)		
28	18.60 (21.70)	12.20 (14.20)			17.30 (14.10)	11.30 (9.24)		
29	7.17 (0.98)	4.70 (0.64)			8.45 (1.95)	5.54 (1.28)		
30	5.12 (0.88)	3.36 (0.58)			7.96 (1.53)	5.22 (1.00)		
31	3.90 (0.54)	2.56 (0.35)			5.52 (1.10)	3.62 (0.72)		
Avg	15.8	10.4	793.0	230.0	14.3	9.4	710.0	197.0
n	31	31	26	26	31	31	26	26
SD	6.7	4.4	282.0	45.7	6.6	4.3	320.0	45.3
Min	2.6	1.7	126.0	83.0	1.5	1.0	71.0	46.9
Max	29.0	19.0	1210.0	303.0	24.0	15.7	1190.0	277.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for June, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	8.55 (8.69)	5.61 (5.70)			10.10 (18.80)	6.63 (12.40)		
2								
3								
4								
5	2.53 (4.90)	1.66 (3.21)	119.00 (231.00)	883.00 (1720.00)	3.01 (4.41)	1.97 (2.89)		
6	2.60 (4.54)	1.71 (2.98)	123.00 (214.00)	1040.00 (1820.00)	3.22 (4.32)	2.11 (2.84)	152.00 (204.00)	1120.00 (1520.00)
7	3.25 (4.42)	2.13 (2.90)	153.00 (209.00)	1380.00 (1880.00)	3.73 (4.96)	2.44 (3.25)	176.00 (235.00)	1500.00 (2010.00)
8	2.62 (3.21)	1.72 (2.10)	124.00 (152.00)	1070.00 (1320.00)	3.08 (3.87)	2.02 (2.54)	146.00 (183.00)	1310.00 (1640.00)
9	2.30 (2.72)	1.51 (1.79)	109.00 (129.00)	835.00 (988.00)	2.70 (3.13)	1.77 (2.05)	128.00 (148.00)	1100.00 (1280.00)
10	2.37 (2.57)	1.55 (1.68)	112.00 (122.00)	720.00 (783.00)	2.79 (2.87)	1.83 (1.88)	132.00 (136.00)	1010.00 (1050.00)
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30								
Avg	3.5	2.3	124.0	989.0	4.1	2.7	147.0	1210.0
n	7	7	6	6	7	7	5	5
SD	2.1	1.4	14.4	212.0	2.5	1.6	17.2	174.0
Min	2.3	1.5	109.0	720.0	2.7	1.8	128.0	1010.0
Max	8.6	5.6	153.0	1380.0	10.1	6.6	176.0	1500.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for July, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1								
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16								
17	26.10 (5.35)	17.10 (3.51)	1280.00 (263.00)	258.00 (51.80)	23.40 (4.51)	15.30 (2.96)	1150.00 (223.00)	239.00 (45.10)
18	27.70 (4.46)	18.20 (2.93)	1360.00 (220.00)	267.00 (41.90)	25.10 (3.97)	16.50 (2.60)	1240.00 (196.00)	250.00 (38.30)
19	28.50 (5.23)	18.70 (3.43)	1410.00 (258.00)	268.00 (48.00)	26.40 (4.05)	17.30 (2.65)	1310.00 (201.00)	256.00 (38.00)
20	21.60 (4.06)	14.20 (2.66)	1070.00 (201.00)	199.00 (38.40)	20.00 (3.24)	13.10 (2.13)	999.00 (162.00)	191.00 (32.00)
21	35.90 (22.70)	23.50 (14.90)						
22	29.40 (26.60)	19.30 (17.40)			26.00 (34.50)	17.10 (22.70)		
23	8.24 (1.09)	5.41 (0.72)			8.21 (1.22)	5.39 (0.80)		
24								
25								
26								
27								
28	4.10 (4.81)	2.69 (3.15)			3.26 (3.97)	2.14 (2.61)		
29	3.52 (4.06)	2.31 (2.66)			2.87 (3.72)	1.88 (2.44)		
30	3.52 (3.64)	2.31 (2.39)			3.13 (3.22)	2.05 (2.11)		
31	3.28 (4.00)	2.15 (2.62)	170.00 (207.00)	1280.00 (1540.00)	2.95 (3.29)	1.94 (2.15)	153.00 (171.00)	1110.00 (1230.00)
Avg	17.4	11.4	1060.0	455.0	14.1	9.3	971.0	410.0
n	11	11	5	5	10	10	5	5
SD	12.3	8.0	459.0	413.0	10.3	6.8	422.0	352.0
Min	3.3	2.2	170.0	199.0	2.9	1.9	153.0	191.0
Max	35.9	23.5	1410.0	1280.0	26.4	17.3	1310.0	1110.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for August, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	3.25 (3.66)	2.13 (2.40)	169.00 (190.00)	1450.00 (1610.00)	2.78 (3.24)	1.82 (2.12)	144.00 (168.00)	1210.00 (1400.00)
2	2.85 (2.77)	1.87 (1.81)	148.00 (144.00)	1330.00 (1290.00)	2.68 (2.82)	1.76 (1.85)	140.00 (147.00)	1250.00 (1320.00)
3	2.77 (2.64)	1.82 (1.73)	144.00 (137.00)	1230.00 (1180.00)	2.59 (2.44)	1.70 (1.60)	135.00 (127.00)	1180.00 (1110.00)
4								
5								
6								
7								
8	2.47 (2.09)	1.62 (1.37)	129.00 (109.00)	435.00 (373.00)	2.14 (1.91)	1.41 (1.25)	112.00 (100.00)	394.00 (356.00)
9	2.80 (1.98)	1.84 (1.30)	146.00 (104.00)	407.00 (296.00)	2.24 (1.79)	1.47 (1.17)	117.00 (93.70)	340.00 (280.00)
10	2.85 (1.95)	1.87 (1.28)	149.00 (102.00)	345.00 (244.00)	2.26 (1.58)	1.48 (1.04)	118.00 (82.90)	284.00 (206.00)
11	2.51 (1.43)	1.65 (0.94)	131.00 (74.50)	256.00 (148.00)	2.46 (1.38)	1.61 (0.90)	129.00 (72.30)	261.00 (149.00)
12	2.37 (1.35)	1.56 (0.89)	124.00 (70.70)	207.00 (119.00)	2.40 (1.32)	1.58 (0.87)	126.00 (69.30)	217.00 (121.00)
13	2.26 (1.31)	1.48 (0.86)	118.00 (68.50)	170.00 (99.00)	2.34 (1.26)	1.53 (0.83)	123.00 (66.30)	182.00 (99.00)
14	1.70 (1.01)	1.11 (0.66)	88.90 (52.70)	111.00 (67.00)	1.81 (1.06)	1.18 (0.70)	94.90 (55.90)	122.00 (72.90)
15	1.72 (1.00)	1.13 (0.66)	90.10 (52.40)	99.30 (58.10)	1.81 (1.07)	1.19 (0.70)	95.30 (56.30)	108.00 (64.50)
16								
17								
18	1.65 (0.92)	1.08 (0.61)	86.60 (48.50)	67.90 (37.90)	1.75 (0.94)	1.15 (0.61)	92.20 (49.20)	74.00 (39.40)
19	1.60 (0.93)	1.05 (0.61)	83.90 (48.90)	59.70 (34.60)	1.70 (0.91)	1.11 (0.60)	89.50 (47.90)	65.00 (34.70)
20	1.65 (1.01)	1.08 (0.67)	86.60 (53.30)	56.10 (34.40)	1.72 (0.97)	1.13 (0.64)	90.50 (51.00)	59.80 (33.60)
21	2.24 (1.10)	1.47 (0.72)	117.00 (58.00)	69.60 (34.20)	2.20 (1.07)	1.44 (0.70)	116.00 (56.40)	69.90 (33.60)
22	3.09 (1.31)	2.02 (0.86)	162.00 (68.70)	88.40 (36.90)	3.02 (1.34)	1.98 (0.88)	159.00 (70.80)	88.30 (38.60)
23	3.56 (1.84)	2.33 (1.21)	187.00 (96.80)	94.50 (48.60)	3.54 (1.67)	2.32 (1.10)	187.00 (88.20)	96.00 (44.90)
24	4.81 (2.44)	3.15 (1.60)	253.00 (128.00)	119.00 (60.10)	4.48 (2.19)	2.94 (1.44)	236.00 (115.00)	113.00 (54.90)
25	6.30 (2.92)	4.13 (1.92)	332.00 (154.00)	145.00 (67.50)	5.53 (2.61)	3.62 (1.71)	292.00 (137.00)	130.00 (61.20)
26	6.87 (3.45)	4.51 (2.26)	362.00 (182.00)	149.00 (74.90)	7.16 (3.43)	4.70 (2.25)	378.00 (181.00)	157.00 (75.00)
27	9.48 (3.40)	6.22 (2.23)	499.00 (179.00)	192.00 (68.50)	7.62 (3.00)	5.00 (1.97)	402.00 (159.00)	157.00 (61.50)
28	11.80 (4.08)	7.71 (2.68)	619.00 (215.00)	225.00 (77.90)	9.43 (3.29)	6.18 (2.16)	498.00 (174.00)	183.00 (63.50)
29	12.00 (3.89)	7.88 (2.55)	633.00 (205.00)	217.00 (69.30)	10.00 (3.42)	6.59 (2.24)	531.00 (181.00)	184.00 (61.80)
30	10.80 (3.39)	7.10 (2.22)	571.00 (179.00)	185.00 (57.70)	9.17 (3.22)	6.01 (2.11)	485.00 (170.00)	159.00 (55.60)
31	12.60 (4.02)	8.25 (2.64)	664.00 (212.00)	205.00 (65.00)	10.50 (3.77)	6.88 (2.47)	556.00 (200.00)	173.00 (61.80)
Avg	4.6	3.0	244.0	317.0	4.1	2.7	218.0	290.0
n	25	25	25	25	25	25	25	25
SD	3.6	2.4	191.0	391.0	2.9	1.9	154.0	351.0
Min	1.6	1.1	83.9	56.1	1.7	1.1	89.5	59.8
Max	12.6	8.3	664.0	1450.0	10.5	6.9	556.0	1250.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for September, 2009.

Day	House 10				House 12			
	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$	kg d^{-1}	g $d^{-1}m^{-2}$	mg $d^{-1}hd^{-1}$	g $d^{-1}AU^{-1}$
1	15.70 (4.40)	10.30 (2.89)	828.00 (233.00)	243.00 (67.60)	13.10 (3.97)	8.58 (2.61)	693.00 (210.00)	205.00 (61.50)
2	17.30 (3.75)	11.40 (2.46)	915.00 (199.00)	256.00 (54.00)	15.10 (3.54)	9.93 (2.32)	802.00 (188.00)	226.00 (52.00)
3	16.60 (3.47)	10.90 (2.28)	880.00 (184.00)	236.00 (48.60)	14.60 (3.49)	9.54 (2.29)	772.00 (185.00)	208.00 (49.60)
4	13.30 (3.56)	8.72 (2.33)	704.00 (188.00)	181.00 (48.20)	12.80 (3.77)	8.37 (2.48)	677.00 (200.00)	175.00 (51.60)
5	17.70 (5.54)	11.60 (3.63)	937.00 (293.00)	230.00 (71.00)	16.30 (4.92)	10.70 (3.23)	865.00 (261.00)	215.00 (64.10)
6	17.60 (4.13)	11.50 (2.71)	931.00 (219.00)	221.00 (51.80)	15.50 (3.89)	10.20 (2.55)	823.00 (207.00)	197.00 (49.40)
7	18.10 (5.50)	11.90 (3.60)	962.00 (292.00)	220.00 (65.90)	17.30 (4.75)	11.40 (3.11)	921.00 (252.00)	212.00 (57.40)
8	17.90 (3.93)	11.70 (2.58)	952.00 (209.00)	210.00 (45.20)	16.30 (3.26)	10.70 (2.14)	868.00 (174.00)	193.00 (37.70)
9								
10	23.60 (5.64)	15.40 (3.70)	1250.00 (300.00)	259.00 (60.50)				
11	25.70 (5.75)	16.80 (3.77)	1370.00 (306.00)	275.00 (59.90)	23.50 (5.10)	15.40 (3.35)	1250.00 (273.00)	253.00 (53.60)
12	25.60 (3.82)	16.80 (2.51)	1370.00 (204.00)	267.00 (39.00)	23.70 (3.34)	15.50 (2.19)	1270.00 (179.00)	249.00 (34.40)
13	19.20 (5.82)	12.60 (3.82)	1030.00 (312.00)	196.00 (59.80)	18.90 (4.80)	12.40 (3.15)	1010.00 (257.00)	194.00 (49.70)
14	23.80 (9.98)	15.60 (6.54)			25.80 (13.50)	16.90 (8.88)		
15	23.10 (17.40)	15.20 (11.40)			24.00 (19.70)	15.80 (12.90)		
16	6.19 (6.41)	4.06 (4.21)			8.87 (11.00)	5.82 (7.23)		
17	3.92 (1.93)	2.57 (1.27)			4.19 (1.72)	2.75 (1.13)		
18	2.90 (1.42)	1.90 (0.93)			2.69 (0.46)	1.76 (0.30)		
19	2.23 (0.91)	1.46 (0.60)			2.36 (0.26)	1.55 (0.17)		
20	2.68 (0.35)	1.76 (0.23)			1.84 (0.23)	1.21 (0.15)		
21	1.84 (0.55)	1.21 (0.36)			1.63 (0.22)	1.07 (0.15)		
22	0.50 (0.48)	0.33 (0.31)			0.80 (0.95)	0.52 (0.62)		
23	0.11 (0.17)	0.07 (0.11)			0.10 (0.14)	0.07 (0.09)		
24	0.07 (0.11)	0.05 (0.07)			0.07 (0.10)	0.04 (0.07)		
25	0.07 (0.11)	0.05 (0.07)			0.07 (0.11)	0.05 (0.07)		
26	0.08 (0.08)	0.05 (0.05)			0.09 (0.09)	0.06 (0.06)		
27	0.09 (0.09)	0.06 (0.06)	4.51 (4.87)	33.40 (36.00)	0.10 (0.10)	0.07 (0.07)	5.22 (5.17)	38.40 (38.30)
28	0.07 (0.08)	0.05 (0.05)	3.60 (3.87)	30.60 (33.00)	0.09 (0.11)	0.06 (0.07)	4.65 (5.69)	39.40 (48.20)
29	0.06 (0.07)	0.04 (0.05)	2.92 (3.76)	26.30 (33.80)	0.08 (0.14)	0.05 (0.09)	4.22 (7.25)	37.90 (65.10)
30	0.08 (0.10)	0.05 (0.06)	3.96 (5.07)	34.20 (43.70)	0.10 (0.16)	0.06 (0.10)	5.05 (8.09)	43.80 (70.20)
Avg	10.2	6.7	759.0	182.0	9.3	6.1	665.0	166.0
n	29	29	16	16	28	28	15	15
SD	9.6	6.3	470.0	90.5	9.0	5.9	430.0	78.3
Min	0.1	0.0	2.9	26.3	0.1	0.0	4.2	37.9
Max	25.7	16.8	1370.0	275.0	25.8	16.9	1270.0	253.0

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Table E11. Daily means (SD) of NH3 emissions at Site CA1B for October, 2009.

Day	House 10								House 12							
	kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$		kg d^{-1}		g $d^{-1}m^{-2}$		mg $d^{-1}hd^{-1}$		g $d^{-1}AU^{-1}$	
1	0.12	(0.13)	0.08	(0.08)	6.09	(6.66)	46.50	(50.80)	0.15	(0.18)	0.10	(0.12)	7.81	(9.27)	59.90	(71.30)
2	0.15	(0.13)	0.10	(0.09)	7.63	(6.89)	48.70	(44.10)	0.19	(0.17)	0.12	(0.11)	9.76	(8.96)	62.90	(58.00)
3	0.15	(0.15)	0.10	(0.10)	7.69	(7.65)	40.30	(40.40)	0.20	(0.20)	0.13	(0.13)	10.50	(10.60)	55.20	(56.00)
4	0.18	(0.19)	0.12	(0.12)	9.12	(9.73)	38.40	(40.80)	0.24	(0.25)	0.16	(0.17)	12.50	(13.20)	53.00	(55.60)
5	0.19	(0.21)	0.13	(0.14)	9.95	(11.10)	34.50	(38.40)	0.25	(0.30)	0.17	(0.20)	13.10	(15.90)	45.70	(54.80)
6	0.22	(0.22)	0.14	(0.14)	11.40	(11.20)	32.10	(31.90)	0.29	(0.32)	0.19	(0.21)	15.30	(16.50)	43.60	(47.20)
7																
8	0.30	(0.26)	0.20	(0.17)	15.80	(13.80)	31.20	(27.30)	0.38	(0.34)	0.25	(0.22)	19.80	(17.50)	39.30	(34.90)
9	0.34	(0.29)	0.22	(0.19)	17.60	(15.40)	29.70	(26.10)	0.38	(0.35)	0.25	(0.23)	20.00	(18.10)	34.00	(30.80)
10	0.40	(0.34)	0.26	(0.22)	20.80	(17.80)	30.30	(25.80)	0.42	(0.36)	0.28	(0.24)	22.00	(18.90)	32.20	(27.60)
11	0.48	(0.45)	0.32	(0.30)	25.30	(23.60)	32.00	(29.70)	0.47	(0.49)	0.31	(0.32)	24.40	(25.40)	31.00	(32.20)
12	0.67	(0.57)	0.44	(0.37)	34.80	(29.80)	38.60	(33.00)	0.60	(0.60)	0.39	(0.39)	31.40	(31.30)	35.00	(34.90)
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30																
31																
Avg	0.3		0.2		15.1		36.6		0.3		0.2		17.0		44.7	
n	11		11		11		11		11		11		11		11	
SD	0.2		0.1		8.5		6.3		0.1		0.1		6.9		11.0	
Min	0.1		0.1		6.1		29.7		0.2		0.1		7.8		31.0	
Max	0.7		0.4		34.8		48.7		0.6		0.4		31.4		62.9	

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Table E12. Completeness of airflow and emission data

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Table E12. Completeness of airflow and emission data at Site CA1B for September, 2007.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	98	98	0	0	0	0	0	0	0	0	0	0
26	100	100	0	0	0	0	0	0	0	0	0	0
27	97	97	0	0	0	0	0	0	0	0	0	0
28	100	100	0	0	0	0	0	74	0	0	0	0
29	100	100	0	0	0	0	0	100	0	0	0	0
30	100	100	0	0	0	0	0	100	0	0	0	0
Avg	20	20	0	0	0	0	0	9	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	40	40	0	0	0	0	0	28	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	0	0	0	0	0	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for October, 2007.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	0	0	0	100	0	0	0	0
2	100	100	0	0	0	0	0	100	0	0	0	0
3	100	100	0	0	0	0	0	100	0	0	0	0
4	100	100	0	0	0	0	0	100	0	0	0	0
5	91	91	0	0	0	0	0	91	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	50	50	0	0	0	0	0	0	0	0	0	0
12	33	33	0	0	0	0	0	0	0	0	0	0
13	42	45	0	0	0	0	0	0	0	0	0	0
14	100	100	0	0	0	0	0	0	0	0	0	0
15	100	100	0	0	0	0	0	0	0	0	0	0
16	100	100	0	0	0	0	0	0	0	0	0	0
17	100	100	0	0	0	0	0	0	0	0	0	0
18	100	100	0	0	0	0	0	0	0	0	0	0
19	100	99	0	0	0	0	0	0	0	0	0	0
20	100	47	0	0	0	0	0	0	0	0	0	0
21	100	100	0	0	0	0	0	0	0	0	0	0
22	100	100	0	0	0	0	0	0	0	0	0	0
23	100	100	0	0	0	0	0	0	0	0	0	0
24	100	100	0	0	0	0	0	0	0	0	0	0
25	100	100	0	0	0	0	0	0	0	0	0	0
26	100	100	0	0	0	0	0	0	0	0	0	0
27	100	100	0	0	0	0	0	0	0	0	0	0
28	100	100	0	0	0	0	0	0	0	0	0	0
29	78	77	0	0	0	0	0	0	0	0	0	0
30	50	54	0	0	0	0	0	0	0	0	0	0
31	100	100	0	0	0	0	0	0	0	0	0	0
Avg	76	74	0	0	0	0	0	16	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	38	38	0	0	0	0	0	36	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	0	0	0	0	0	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for November, 2007.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	77	0	0	0	0	0	0	0	0	0	0
2	100	100	0	0	0	0	0	0	0	0	0	0
3	100	100	0	0	0	0	0	0	0	0	0	0
4	100	100	0	0	0	0	0	0	0	0	0	0
5	80	80	0	0	0	0	0	0	0	0	0	0
6	80	80	0	0	0	0	0	0	0	0	0	0
7	100	100	0	0	0	0	22	0	0	0	0	0
8	100	100	0	0	0	0	100	0	0	0	0	0
9	95	95	0	0	0	0	95	0	0	0	0	0
10	92	93	0	0	0	0	79	0	0	0	0	0
11	44	50	0	0	0	0	44	0	0	0	0	0
12	100	100	0	0	0	0	100	0	0	0	0	0
13	100	100	0	0	26	27	100	0	0	0	0	0
14	66	66	0	0	62	62	66	0	0	0	0	0
15	100	100	0	0	100	100	100	0	0	0	0	0
16	100	100	0	0	100	100	100	0	0	0	0	0
17	100	80	0	0	100	80	100	0	0	0	0	0
18	100	78	0	0	100	78	100	0	0	0	0	0
19	100	100	0	0	100	100	100	0	0	0	0	0
20	100	100	0	0	70	100	90	31	0	0	0	0
21	100	100	0	0	42	100	97	97	0	0	0	0
22	37	37	0	0	37	34	37	37	0	0	0	0
23	64	64	0	0	63	61	64	64	0	0	0	0
24	100	100	0	0	100	100	100	100	0	0	0	0
25	100	100	0	0	100	100	100	100	0	0	0	0
26	100	100	0	0	100	100	100	100	0	0	0	0
27	100	100	0	0	100	100	100	100	0	0	0	0
28	100	100	0	0	100	100	100	100	0	0	0	0
29	100	100	0	0	100	100	100	100	0	0	0	0
30	100	100	0	0	100	100	100	100	0	0	0	0
Avg	92	90	0	0	50	51	70	31	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	17	17	0	0	45	46	40	44	0	0	0	0
Min	37	37	0	0	0	0	0	0	0	0	0	0
Max	100	100	0	0	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for December, 2007.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	100	100	67	68	0	0	0	0
2	100	100	0	0	100	100	100	100	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	100	100	0	0	0	0
8	100	100	0	0	100	100	100	100	0	0	0	0
9	100	100	0	0	100	100	100	100	0	0	0	0
10	76	76	0	0	75	76	60	59	0	0	10	12
11	36	36	0	0	36	34	0	0	0	0	36	36
12	100	100	0	0	100	100	0	0	0	0	100	100
13	100	100	0	0	100	100	0	0	0	0	95	95
14	100	100	0	0	100	100	0	0	0	0	98	99
15	100	100	0	0	100	100	0	0	0	0	100	100
16	100	100	0	0	100	100	0	0	0	0	88	88
17	100	100	0	0	100	100	0	0	0	0	100	100
18	100	100	0	0	100	100	0	0	0	0	100	100
19	100	100	0	0	100	100	43	41	0	0	51	51
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	96	96	0	0	0	0
23	100	100	0	0	59	59	95	95	0	0	0	0
24	100	100	0	0	100	100	100	100	0	0	0	0
25	100	100	0	0	100	100	94	94	0	0	0	0
26	100	100	0	0	100	100	100	100	0	0	0	0
27	100	100	0	0	100	100	79	79	0	0	0	0
28	99	99	18	18	99	99	89	89	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	54	54	0	0	0	0
31	100	100	100	100	100	100	0	0	0	0	0	0
Avg	97	97	10	10	96	96	64	64	0	0	25	25
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	12	12	30	30	14	14	43	43	0	0	41	41
Min	36	36	0	0	36	34	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	100	100

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Table E12. Completeness of airflow and emission data at Site CA1B for January, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
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	40	40	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	84	85	84	77	84	77	70	78	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	99	99	99	99	99	99	92	93	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	99	99	99	99	99	99	95	95	0	0	0	0
28	100	100	100	100	100	100	55	55	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	99	99	99	99	99	99	82	83	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	3	3	3	4	3	4	35	35	0	0	0	0
Min	84	85	84	77	84	77	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for February, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	74	74	74	74	52	51	41	39	0	0
2	9	9	0	0	0	0	0	0	9	9	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	58	58	14	14	15	15	0	0	58	58	0	0
5	100	100	100	100	100	100	0	0	100	100	0	0
6	100	100	100	100	100	100	0	0	100	100	0	0
7	100	100	100	100	100	100	0	0	100	100	0	0
8	100	100	100	100	100	100	0	0	97	97	0	0
9	100	100	100	100	100	100	0	0	100	100	0	0
10	100	100	100	100	100	100	0	0	100	100	0	0
11	98	99	98	99	98	99	0	0	98	99	0	0
12	100	100	100	100	100	100	0	0	100	100	0	0
13	100	100	100	100	100	100	0	0	100	100	0	0
14	97	97	97	97	97	97	0	0	97	97	0	0
15	100	100	100	100	100	100	0	0	100	100	0	0
16	100	100	100	100	100	100	0	0	100	100	0	0
17	100	100	100	100	100	100	0	0	100	100	0	0
18	100	100	100	100	100	100	0	0	87	100	0	0
19	100	100	100	100	100	100	0	0	0	57	0	0
20	100	100	100	100	100	100	0	0	0	0	0	0
21	96	96	96	96	96	96	0	0	0	0	0	0
22	88	88	50	52	88	88	0	0	0	0	0	0
23	99	99	39	38	99	99	0	0	0	0	0	0
24	100	100	100	100	100	100	0	0	0	0	0	0
25	99	99	99	99	99	99	1	0	0	0	0	0
26	94	94	94	94	94	94	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	97	97	97	97	97	97	47	47	0	0	0	0
Avg	91	91	85	85	88	88	3	3	51	54	0	0
n	29	29	29	29	29	29	29	29	29	29	29	29
SD	25	25	31	31	29	29	13	13	47	47	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	52	51	100	100	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for March, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	100	100	100	100	100	0	0	0	0
5	100	100	100	100	100	100	100	100	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	99	99	99	99	99	99	95	97	0	0	0	0
9	96	96	96	96	96	96	96	96	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	100	100	100	100	100	100	100	100	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	79	69	0	0	0	0
24	51	51	51	49	51	51	0	0	0	0	0	0
25	94	94	93	93	93	94	39	39	0	0	0	0
26	100	100	100	98	100	98	100	100	0	0	0	0
27	52	52	43	51	43	52	52	52	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	97	97	96	96	96	96	92	92	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	12	12	13	12	13	12	22	22	0	0	0	0
Min	51	51	43	49	43	51	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for April, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	79	100	79	95	96	0	0	0	0
5	94	94	63	63	63	63	94	94	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	53	53	5	5	49	49	49	51	0	0	0	0
12	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	49	49	0	0	0	0
14	100	100	100	100	100	100	0	0	0	0	0	0
15	100	100	100	100	100	100	0	0	0	0	0	0
16	100	100	100	100	100	100	0	0	0	0	0	0
17	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	23	28	0	0	0	0
19	100	100	100	100	100	100	98	98	0	0	0	0
20	99	99	99	99	99	99	99	99	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
Avg	82	82	79	78	80	80	64	64	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	37	37	40	39	38	37	45	45	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for May, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	95	94	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	100	100	100	100	100	0	0	0	0
5	100	100	100	100	100	100	100	100	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	78	77	78	79	91	89	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	100	100	100	100	100	100	100	100	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	93	91	71	68	71	68	63	61	0	0	27	26
16	14	14	0	0	0	0	0	0	0	0	14	14
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	53	53	52	50	52	50	0	0	0	0	50	47
20	100	100	100	100	100	100	0	0	0	0	100	100
21	100	100	100	100	100	100	0	0	0	0	96	96
22	100	100	100	100	100	100	0	0	0	0	87	87
23	100	100	100	100	100	100	0	0	0	0	99	100
24	100	100	100	100	100	100	0	0	0	0	100	100
25	100	100	100	100	100	100	0	0	0	0	100	100
26	100	100	100	100	100	100	0	0	0	0	100	7
27	100	100	100	100	100	100	0	0	0	0	100	0
28	100	100	100	100	100	100	48	46	0	0	45	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	89	89	87	87	87	87	58	58	0	0	30	22
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	29	29	30	30	30	30	47	47	0	0	42	38
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

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Table E12. Completeness of airflow and emission data at Site CA1B for June, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	97	97	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	100	100	100	95	35	0	0	0	0
5	100	100	100	100	100	100	48	47	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	51	51	0	0	0	0
13	100	100	100	100	100	100	100	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	96	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	99	99	99	99	99	84	88	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	96	93	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	76	74	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	0	0	0	0	0	0	40	40	0	0	0	0
Min	99	99	99	99	99	99	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for July, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	95	87	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	90	90	0	0	0	0
4	100	100	100	100	100	100	100	100	0	0	0	0
5	100	100	100	100	100	100	100	100	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	100	100	100	100	100	100	50	50	44	40	0	0
10	100	100	100	100	100	100	0	0	100	100	0	0
11	100	100	100	100	100	100	0	0	100	100	0	0
12	100	100	100	100	100	100	0	0	100	100	0	0
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	100	100	100	100	100	0	0	100	100	0	0
16	100	100	100	100	100	100	0	0	100	100	0	0
17	100	100	100	100	100	100	0	0	100	100	0	0
18	100	100	100	100	100	100	0	0	94	93	0	0
19	100	100	100	100	100	100	0	0	100	100	0	0
20	100	100	100	100	100	100	0	0	100	100	0	0
21	100	100	100	100	100	100	0	0	100	100	0	0
22	100	100	100	100	100	100	0	0	100	100	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	99	99	99	99	99	99	41	42	49	46	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	47	47	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	100	100	100	100	100	100	40	39	51	51	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0	0	0	0	0	0	46	46	48	48	0	0
Min	99	99	99	99	99	99	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for August, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	99	99	99	99	99	99	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	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	93	93	93	93	93	93	40	40	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	97	97	97	97	97	97	97	97	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	94	94	38	36	94	71	94	94	0	0	0	0
19	100	100	0	0	100	100	100	100	0	0	0	0
20	100	100	44	44	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	97	94	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	100	100	100	100	100	100	100	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	95	93	0	0	0	0
30	100	100	19	19	100	100	100	100	0	0	0	0
31	100	100	0	0	100	100	100	100	0	0	0	0
Avg	99	99	87	87	99	99	65	65	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	2	2	30	30	2	5	46	46	0	0	0	0
Min	93	93	0	0	93	71	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for September, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	100	100	100	100	0	0	0	0
2	98	98	0	0	98	98	98	98	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	100	100	0	0	0	0
8	100	100	0	0	100	100	100	100	0	0	0	0
9	100	100	0	0	100	100	100	100	0	0	0	0
10	100	100	0	0	100	100	100	100	0	0	0	0
11	100	100	0	0	100	100	91	91	0	0	0	0
12	100	100	0	0	100	100	100	100	0	0	0	0
13	100	100	0	0	100	100	100	100	0	0	0	0
14	100	100	0	0	100	100	100	100	0	0	0	0
15	100	100	0	0	100	100	100	100	0	0	0	0
16	100	100	0	0	100	100	100	100	0	0	0	0
17	100	100	0	0	100	100	100	100	0	0	0	0
18	100	100	0	0	100	100	100	100	0	0	0	0
19	100	100	0	0	100	100	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	97	50	0	0	0	0
23	100	100	0	0	100	100	97	0	0	0	0	0
24	97	97	0	0	97	97	97	37	0	0	0	0
25	100	100	0	0	100	100	58	54	0	0	0	0
26	100	100	0	0	96	98	0	0	0	0	0	0
27	100	100	0	0	0	0	0	0	0	0	0	0
28	100	100	0	0	0	0	0	0	0	0	0	0
29	95	95	0	0	0	0	0	0	0	0	0	0
30	100	100	0	0	0	0	0	0	0	0	0	0
Avg	100	100	0	0	86	86	81	74	0	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	1	1	0	0	34	34	37	40	0	0	0	0
Min	95	95	0	0	0	0	0	0	0	0	0	0
Max	100	100	0	0	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for October, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	0	0	0	0	0	0	0	0
2	100	100	0	0	0	0	0	0	0	0	0	0
3	100	100	0	0	0	0	0	0	0	0	0	0
4	100	100	0	0	0	0	0	0	0	0	0	0
5	100	100	0	0	0	0	0	0	0	0	0	0
6	100	100	0	0	0	0	0	0	0	0	0	0
7	100	100	0	0	0	0	0	0	0	0	0	0
8	100	100	0	0	0	0	0	0	0	0	0	0
9	100	100	0	0	0	0	0	0	0	0	0	0
10	100	100	0	0	0	0	0	0	0	0	0	0
11	100	100	0	0	0	0	0	0	0	0	0	0
12	100	100	0	0	0	0	0	0	0	0	0	0
13	100	100	0	0	0	0	0	0	0	0	0	0
14	100	100	0	0	0	0	0	0	0	0	0	0
15	100	100	0	0	0	0	0	0	0	0	0	0
16	100	100	0	0	0	0	37	38	0	0	0	0
17	100	100	0	0	0	0	99	99	0	0	0	0
18	100	100	0	0	0	0	100	100	0	0	0	0
19	100	100	0	0	0	0	100	100	0	0	0	0
20	100	100	0	0	0	0	100	100	0	0	0	0
21	100	100	0	0	0	0	100	100	0	0	0	0
22	100	100	0	0	0	0	79	85	0	0	0	0
23	100	100	0	0	0	0	100	100	0	0	0	0
24	100	100	0	0	0	0	100	100	0	0	0	0
25	100	100	0	0	0	0	100	100	0	0	0	0
26	100	100	0	0	0	0	100	100	0	0	0	0
27	100	100	0	0	0	0	100	100	0	0	0	0
28	100	100	0	0	0	0	100	100	0	0	0	0
29	98	99	0	0	0	0	95	92	0	0	0	0
30	100	100	0	0	0	0	100	100	0	0	0	0
31	100	100	0	0	0	0	100	100	0	0	0	0
Avg	100	100	0	0	0	0	49	49	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0	0	0	0	0	0	49	49	0	0	0	0
Min	98	99	0	0	0	0	0	0	0	0	0	0
Max	100	100	0	0	0	0	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for November, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	0	0	100	100	0	0	0	0
2	100	100	0	0	0	0	100	100	0	0	0	0
3	100	100	0	0	0	0	100	100	0	0	0	0
4	100	100	0	0	0	0	100	100	0	0	0	0
5	100	100	0	0	0	0	100	100	0	0	0	0
6	100	100	0	0	0	0	100	100	0	0	0	0
7	64	64	0	0	0	0	53	59	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	52	52	0	0	0	0	52	52	0	0	0	0
11	100	100	0	0	0	0	100	100	0	0	0	0
12	100	100	0	0	0	0	100	100	0	0	0	0
13	100	100	0	0	0	0	100	100	0	0	0	0
14	100	100	0	0	0	0	100	100	0	0	0	0
15	100	100	0	0	0	0	100	100	0	0	0	0
16	100	100	0	0	0	0	100	100	0	0	0	0
17	99	100	0	0	0	0	58	59	0	0	34	0
18	100	100	0	0	0	0	0	0	0	0	100	52
19	100	100	0	0	0	0	0	0	0	0	100	100
20	97	97	94	95	95	95	0	0	0	0	94	76
21	100	100	100	100	100	100	0	0	0	0	100	100
22	100	100	100	100	100	100	0	0	0	0	100	100
23	100	100	100	100	100	100	0	0	0	0	100	100
24	100	100	83	100	83	100	29	29	0	0	65	65
25	99	99	99	74	99	74	99	99	0	0	0	0
26	88	100	88	100	88	100	88	100	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
Avg	90	90	36	36	36	36	66	67	0	0	23	20
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	26	26	47	47	47	47	44	44	0	0	40	37
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

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Table E12. Completeness of airflow and emission data at Site CA1B for December, 2008.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	97	100	97	100	97	100	92	95	0	0	0	0
3	97	97	97	97	97	97	56	56	0	0	0	0
4	97	99	97	99	97	99	0	0	0	0	0	0
5	89	100	89	100	89	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	97	100	97	100	97	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	31	30	0	0	0	0
13	100	100	100	100	100	100	79	92	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	97	92	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	94	100	94	100	94	100	94	100	0	0	0	0
22	76	100	76	100	76	100	76	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	88	100	88	100	88	100	88	100	0	0	0	0
26	100	100	100	100	100	100	94	95	0	0	0	0
27	100	100	100	100	100	100	100	100	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	98	100	98	100	98	100	68	70	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	5	1	5	1	5	1	43	43	0	0	0	0
Min	76	97	76	97	76	97	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for January, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	100	100	0	0	0	0
4	100	100	100	100	100	100	100	5	0	0	0	0
5	100	100	100	100	100	100	52	0	38	38	0	0
6	100	100	100	100	100	100	0	0	100	100	0	0
7	100	100	100	100	100	100	0	0	100	100	0	0
8	100	100	100	100	100	100	0	0	100	100	0	0
9	100	100	100	100	100	100	0	0	100	100	0	0
10	100	100	100	100	100	100	0	0	100	100	0	0
11	100	100	100	100	100	100	0	0	100	100	0	0
12	100	100	70	72	100	100	0	0	100	100	0	0
13	100	100	0	0	100	100	0	0	100	100	0	0
14	100	100	0	0	100	100	0	0	100	100	0	0
15	100	100	0	0	100	100	0	0	92	96	0	0
16	100	100	0	0	100	100	0	0	100	100	0	0
17	100	100	0	0	100	100	0	0	100	100	0	0
18	100	100	0	0	100	100	0	0	100	100	0	0
19	100	100	0	0	100	100	0	0	100	100	0	0
20	100	100	0	0	100	100	39	39	54	53	0	0
21	100	100	0	0	100	100	100	100	0	0	0	0
22	81	100	0	0	81	100	81	100	0	0	0	0
23	100	100	0	0	100	100	100	100	0	0	0	0
24	89	100	0	0	89	100	89	100	0	0	0	0
25	100	100	0	0	100	100	100	100	0	0	0	0
26	99	99	0	0	99	99	51	51	0	0	0	0
27	100	100	0	0	100	100	0	0	0	0	0	0
28	100	100	0	0	100	100	0	0	0	0	0	0
29	100	100	0	0	100	100	0	0	0	0	0	0
30	100	100	8	8	100	100	0	0	0	0	0	0
31	85	85	85	85	85	85	0	0	0	0	0	0
Avg	99	100	41	41	99	100	33	29	48	48	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	5	3	48	48	5	3	43	43	48	48	0	0
Min	81	85	0	0	81	85	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	100	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for February, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
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	95	95	95	95	95	0	0	0	0	0	0
5	96	96	96	96	96	96	23	22	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	84	100	84	100	84	100	84	100	0	0	0	0
9	49	100	49	100	49	100	49	100	0	0	0	0
10	100	100	100	100	100	100	100	100	0	0	0	0
11	80	100	80	100	80	100	76	96	0	0	0	0
12	57	100	57	100	57	100	57	100	0	0	0	0
13	93	100	93	100	93	100	93	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	95	95	95	95	95	95	95	95	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	97	97	97	97	97	97	48	92	0	0	0	0
21	100	100	100	100	100	100	0	100	0	0	0	0
22	100	100	100	100	100	100	0	100	0	0	0	0
23	100	100	100	100	100	100	0	91	0	0	0	0
24	100	100	100	100	100	100	0	100	0	0	0	0
25	100	100	100	100	100	100	0	100	0	0	0	0
26	100	100	100	100	100	100	0	100	0	0	0	0
27	100	100	100	100	100	100	0	100	0	0	0	0
28	100	100	100	100	100	100	0	100	0	0	0	0
Avg	95	99	95	99	95	99	47	82	0	0	0	0
n	28	28	28	28	28	28	28	28	28	28	28	28
SD	12	2	12	2	12	2	45	36	0	0	0	0
Min	49	95	49	95	49	95	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for March, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	0	100	0	0	0	0
2	100	100	100	100	100	100	0	97	0	0	0	0
3	100	100	100	100	100	100	0	95	0	0	0	0
4	100	100	100	100	100	100	0	100	0	0	0	0
5	100	100	100	100	100	100	0	100	0	0	0	0
6	100	100	100	100	100	100	0	100	0	0	0	0
7	100	100	100	100	100	100	0	100	0	0	0	0
8	100	100	100	100	100	100	0	100	0	0	0	0
9	100	100	100	100	100	100	0	100	0	0	0	0
10	100	100	100	100	100	100	0	100	0	0	0	0
11	100	100	100	100	100	100	0	97	0	0	0	0
12	100	100	100	100	100	100	0	45	0	0	0	0
13	100	100	100	100	100	100	0	100	0	0	0	0
14	100	100	100	100	100	100	0	100	0	0	0	0
15	100	100	100	100	100	100	0	100	0	0	0	0
16	100	100	100	100	100	100	0	100	0	0	0	0
17	100	100	100	100	100	100	0	100	0	0	0	0
18	100	100	100	100	100	100	0	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	94	0	0	0	0
21	100	100	100	100	100	100	0	100	0	0	0	0
22	80	100	80	100	80	100	0	100	0	0	0	0
23	100	100	100	100	100	100	0	100	0	0	0	0
24	100	100	100	100	100	100	0	100	0	0	0	0
25	100	100	100	100	100	100	0	100	0	0	0	0
26	100	100	100	100	100	100	0	40	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	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	100	99	100	99	100	0	80	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	4	0	4	0	4	0	0	38	0	0	0	0
Min	80	100	80	100	80	100	0	0	0	0	0	0
Max	100	100	100	100	100	100	0	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for April, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
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	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	38
10	85	85	65	64	75	73	0	0	0	0	0	69
11	100	100	100	100	100	100	0	0	0	0	0	100
12	100	100	100	100	100	100	0	0	0	0	0	100
13	100	100	100	100	100	100	0	0	0	0	0	100
14	100	100	100	100	100	100	0	0	0	0	0	100
15	100	100	100	100	100	100	0	0	0	0	0	100
16	100	100	100	100	100	100	0	0	0	0	0	100
17	100	100	100	100	100	100	0	0	0	0	0	100
18	100	100	100	100	100	100	0	0	0	0	0	100
19	100	100	100	100	100	100	0	0	0	0	0	100
20	100	100	33	33	33	33	0	47	0	0	0	48
21	100	100	0	0	0	0	0	100	0	0	0	0
22	100	100	0	0	0	0	0	97	0	0	0	0
23	100	100	0	0	0	0	0	100	0	0	0	0
24	100	100	0	0	0	0	0	100	0	0	0	0
25	100	100	0	0	0	0	0	100	0	0	0	0
26	100	100	0	0	0	0	0	100	0	0	0	0
27	100	100	0	0	0	0	0	100	0	0	0	0
28	100	100	6	6	6	6	0	84	0	0	0	0
29	100	100	100	100	100	100	0	100	0	0	0	0
30	100	100	100	100	100	100	0	85	0	0	0	0
Avg	100	100	70	70	71	70	0	34	0	0	0	35
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	3	3	44	44	44	44	0	45	0	0	0	45
Min	85	85	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	0	100	0	0	0	100

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Table E12. Completeness of airflow and emission data at Site CA1B for May, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
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	43	0	0	0	0
5	100	100	100	100	100	100	0	100	0	0	0	0
6	100	100	100	100	100	100	0	100	0	0	0	0
7	100	100	100	100	100	100	0	100	0	0	0	0
8	100	100	100	100	100	100	0	100	0	0	0	0
9	100	100	100	100	100	100	0	100	0	0	0	0
10	100	100	100	100	100	100	0	98	0	0	0	0
11	100	100	100	100	100	100	34	82	0	0	0	0
12	100	100	100	100	100	100	99	100	0	0	0	0
13	100	100	100	100	100	100	99	100	0	0	0	0
14	100	100	100	100	100	100	100	100	0	0	0	0
15	100	100	100	100	100	100	100	100	0	0	0	0
16	100	100	100	100	100	100	100	100	0	0	0	0
17	100	100	100	100	100	100	100	100	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	95	0	0	0	0
21	100	100	100	100	100	100	100	99	0	0	0	0
22	100	100	100	100	100	100	95	48	0	0	0	0
23	100	100	100	100	100	100	100	0	0	0	0	0
24	100	100	100	100	100	100	32	0	0	0	0	0
25	100	100	100	100	100	100	91	0	0	0	0	0
26	100	100	100	76	100	77	47	0	0	0	0	0
27	99	99	99	99	99	99	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	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	100	100	100	99	100	99	45	57	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	0	0	0	4	0	4	47	47	0	0	0	0
Min	99	99	99	76	99	77	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for June, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	0	0	0	0	0	0
2	48	48	3	3	3	3	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	48	48	10	10	10	10	28	0	0	0	0	0
5	99	99	99	99	99	99	58	46	0	0	0	0
6	100	100	100	100	100	100	99	100	0	0	0	0
7	100	100	100	100	100	100	100	97	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	100	0	0	0	0
11	100	100	14	14	100	100	97	97	0	0	0	0
12	100	100	0	0	100	100	100	100	0	0	0	0
13	100	100	0	0	100	100	100	100	0	0	0	0
14	100	100	0	0	100	100	100	100	0	0	0	0
15	100	100	0	0	100	100	100	100	0	0	0	0
16	100	100	0	0	100	100	100	100	0	0	0	0
17	100	100	0	0	100	100	97	100	0	0	0	0
18	100	100	0	0	100	100	100	100	0	0	0	0
19	100	100	0	0	100	100	100	99	0	0	0	0
20	100	100	0	0	100	100	97	99	0	0	0	0
21	100	100	0	0	100	100	77	99	0	0	0	0
22	100	100	0	0	100	100	99	100	0	0	0	0
23	100	100	0	0	100	100	98	93	0	0	0	0
24	100	100	0	0	100	100	98	99	0	0	0	0
25	91	91	0	0	91	91	56	56	0	0	28	27
26	96	96	0	0	96	96	0	0	0	0	91	95
27	100	100	0	0	100	100	0	0	0	0	100	100
28	100	100	0	0	100	100	0	0	0	0	100	100
29	100	100	0	0	100	100	0	0	0	0	99	100
30	100	100	0	0	100	100	0	0	0	0	100	100
Avg	93	93	24	24	90	90	67	66	0	0	17	17
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	22	22	42	42	29	29	43	45	0	0	36	37
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

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Table E12. Completeness of airflow and emission data at Site CA1B for July, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	0	0	100	100	0	0	0	0	93	100
2	100	100	0	0	100	100	0	0	0	0	100	100
3	100	100	0	0	100	100	0	0	0	0	100	100
4	100	100	0	0	100	100	0	0	0	0	57	100
5	100	100	0	0	100	100	0	0	0	0	50	100
6	100	100	0	0	100	100	0	0	0	0	100	100
7	100	100	0	0	100	100	0	0	0	0	100	100
8	100	100	0	0	100	100	38	42	0	0	48	50
9	100	100	0	0	100	100	100	100	0	0	0	0
10	100	100	0	0	100	100	100	100	0	0	0	0
11	100	100	0	0	100	100	100	100	0	0	0	0
12	100	100	0	0	100	100	100	100	0	0	0	0
13	100	100	0	0	100	100	97	1	0	0	0	0
14	100	100	28	28	100	100	100	0	0	0	0	0
15	100	100	60	59	60	59	41	0	0	0	0	0
16	100	100	58	59	58	59	96	0	0	0	0	0
17	100	100	100	100	100	100	98	0	0	0	0	0
18	100	100	100	100	100	100	98	0	0	0	0	0
19	100	100	100	100	100	100	81	0	0	0	0	0
20	99	99	99	99	99	99	64	0	0	0	0	0
21	91	83	91	64	91	64	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	53	53	24	24	24	24	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	38	38	0	0	0	0	38	0	0	0	0	0
28	100	100	99	99	100	100	99	0	0	0	0	0
29	100	100	100	100	100	100	100	0	0	0	0	0
30	100	100	100	100	100	100	100	0	0	0	0	0
31	100	100	100	100	100	100	100	0	0	0	0	0
Avg	90	89	41	40	85	84	50	14	0	0	21	24
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	27	27	46	45	32	32	46	34	0	0	37	42
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

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Table E12. Completeness of airflow and emission data at Site CA1B for August, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
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	94	0	0	0	0	0
4	38	38	38	37	38	37	38	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	49	49	49	49	49	49	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	100	100	100	100	100	0	0	0	0	0	0
16	93	93	64	51	64	51	30	26	0	0	0	0
17	99	99	50	52	50	52	95	82	0	0	0	0
18	100	100	100	100	100	100	100	100	0	0	0	0
19	100	100	100	100	100	100	100	100	0	0	0	0
20	100	100	100	100	100	100	100	100	0	0	0	0
21	100	100	100	100	100	100	100	100	0	0	0	0
22	100	100	100	100	100	100	100	100	0	0	0	0
23	100	100	100	100	100	100	100	100	0	0	0	0
24	100	100	100	100	100	100	100	100	0	0	0	0
25	100	100	100	100	100	100	100	100	0	0	0	0
26	99	99	79	99	79	99	95	92	0	0	0	0
27	99	99	99	99	99	99	99	97	0	0	0	0
28	100	100	100	100	100	100	100	100	0	0	0	0
29	100	100	100	100	100	100	100	100	0	0	0	0
30	100	100	100	100	100	100	100	100	0	0	0	0
31	100	100	100	100	100	100	100	100	0	0	0	0
Avg	90	90	86	87	86	87	60	48	0	0	0	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	27	27	28	29	28	29	47	49	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	0	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for September, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	100	100	0	0	0	0
2	100	100	100	100	100	100	100	100	0	0	0	0
3	100	100	100	100	100	100	100	99	0	0	0	0
4	100	100	100	100	100	100	96	93	0	0	0	0
5	100	100	100	100	100	100	100	100	0	0	0	0
6	100	100	100	100	100	100	100	100	0	0	0	0
7	100	100	100	100	100	100	100	100	0	0	0	0
8	100	100	100	100	100	100	100	100	0	0	0	0
9	98	98	64	75	64	75	98	80	0	0	0	0
10	94	79	75	69	75	69	94	44	0	0	0	0
11	100	100	100	100	100	100	100	0	0	0	0	0
12	100	100	100	100	100	100	100	0	0	0	0	0
13	100	100	79	78	79	75	56	0	0	0	0	0
14	94	87	94	87	94	87	0	0	0	0	0	0
15	100	100	100	100	100	100	0	0	0	0	0	0
16	100	100	100	100	100	100	0	0	0	0	0	0
17	100	100	100	100	100	100	0	0	0	0	0	0
18	100	100	100	100	100	100	0	0	0	0	0	0
19	100	100	100	100	100	100	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	100	100	100	100	100	100	0	0	0	0	0	0
26	99	99	99	99	99	99	0	0	34	0	0	0
27	100	100	100	100	100	100	0	0	100	0	0	0
28	100	100	100	100	100	100	0	0	100	0	0	0
29	100	100	100	100	100	100	0	0	100	0	0	0
30	100	100	100	100	100	100	0	0	100	0	0	0
Avg	100	99	97	97	97	97	41	31	14	0	0	0
n	30	30	30	30	30	30	30	30	30	30	30	30
SD	2	4	9	8	8	8	48	44	34	0	0	0
Min	94	79	64	69	64	69	0	0	0	0	0	0
Max	100	100	100	100	100	100	100	100	100	0	0	0

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Table E12. Completeness of airflow and emission data at Site CA1B for October, 2009.

Day	Airflow		Ammonia		Hydrogen Sulfide		PM_{10}		$PM_{2.5}$		TSP	
	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12	H10	H12
1	100	100	100	100	100	100	0	0	100	0	0	0
2	100	100	100	100	100	100	0	0	100	0	0	0
3	100	100	100	100	100	100	0	0	100	0	0	0
4	100	100	100	100	100	100	0	0	100	0	0	0
5	100	100	100	100	100	100	0	0	100	0	0	0
6	100	100	100	100	100	100	0	0	100	0	0	0
7	99	99	50	49	50	50	0	0	48	0	44	0
8	100	100	100	100	100	100	0	0	0	0	100	0
9	100	100	100	100	100	100	0	0	0	0	100	0
10	100	100	100	100	100	100	0	0	0	0	100	0
11	100	100	100	100	100	100	0	0	0	0	100	0
12	100	100	100	100	100	100	0	0	0	0	100	0
13	83	83	74	74	74	74	0	0	0	0	79	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	50	50	1	1	1	1	0	0	0	0	42	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Avg	43	43	40	40	40	40	0	0	21	0	21	0
n	31	31	31	31	31	31	31	31	31	31	31	31
SD	48	48	47	47	47	47	0	0	40	0	38	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	100	100	100	100	100	100	0	0	100	0	100	0

APPENDIX F. BIOMATERIALS CHARACTERISTICS.

Table F1. New litter (ricehulls) characteristics (mean ± SD).

House	Date	n	Date	Percent (wet weight basis)	
				TKN	Solids
10	1/5/08	3	1/5/08	0.52 ± 0.02	91.0 ± 0.52
12	1/5/08	3	1/5/08	0.41 ± 0.01	92.1 ± 0.76
10	6/12/08	2	6/12/08	0.39 ± 0.07	92.8 ± 0.42
12	6/12/08	2	6/12/08	0.61 ± 0.30	93.3 ± 0.35

Table F2. Floor litter characteristics (mean ± SD).

House	Date	n	Percent (wet weight basis)		
			Sulfur	Solids	Ammonia
10	4/4/08	16	N/A	74.4 ± 6.80	0.40 ± 0.09
10	6/19/08	16	N/A	88.6 ± 1.33	0.18 ± 0.09
10	6/26/08	16	N/A	87.4 ± 2.01	0.15 ± 0.08
10	7/3/08	16	N/A	83.8 ± 2.71	0.21 ± 0.07
10	7/9/08	16	N/A	80.0 ± 7.23	0.30 ± 0.13
10	7/18/08	16	N/A	74.8 ± 5.65	0.33 ± 0.06
10	7/25/08	16	N/A	74.6 ± 5.16	0.40 ± 0.13
10	11/20/08	16	N/A	65.3 ± 9.95	0.40 ± 0.08
10	1/15/09	16	N/A	56.8 ± 9.10	0.40 ± 0.10
10	2/17/09	16	N/A	82.6 ± 3.63	0.20 ± 0.11
10	2/25/09	16	N/A	82.3 ± 3.05	0.21 ± 0.09
10	3/3/09	16	N/A	74.2 ± 10.1	0.24 ± 0.06
10	3/12/09	16	0.26 ± 0.05	60.0 ± 11.8	0.39 ± 0.10
10	3/20/09	16	0.24 ± 0.04	64.2 ± 11.3	0.34 ± 0.07
10	3/26/09	16	N/A	60.5 ± 12.0	0.41 ± 0.08
10	8/27/09	12	0.24 ± 0.04	73.4 ± 9.52	0.34 ± 0.09
12	4/4/08	16	N/A	70.9 ± 5.28	0.36 ± 0.06
12	6/19/08	16	N/A	86.5 ± 15.1	0.16 ± 0.09
12	6/26/08	16	N/A	87.5 ± 2.59	0.16 ± 0.08
12	7/3/08	16	N/A	86.7 ± 1.25	0.22 ± 0.05
12	7/9/08	16	N/A	81.4 ± 3.78	0.22 ± 0.03
12	7/18/08	16	N/A	73.1 ± 7.79	0.32 ± 0.07
12	7/25/08	16	N/A	70.1 ± 10.7	0.62 ± 0.38
12	11/20/08	16	N/A	69.0 ± 7.90	0.38 ± 0.10
12	1/15/09	16	N/A	57.1 ± 11.1	0.39 ± 0.13
12	2/17/09	16	N/A	83.5 ± 3.58	0.20 ± 0.13
12	2/25/09	16	N/A	82.4 ± 3.97	0.21 ± 0.09
12	3/3/09	16	N/A	73.1 ± 10.8	0.22 ± 0.06
12	3/12/09	16	0.25 ± 0.04	60.4 ± 10.8	0.39 ± 0.11
12	3/20/09	16	0.25 ± 0.04	69.0 ± 13.2	0.34 ± 0.08
12	3/26/09	16	N/A	64.2 ± 14.1	0.47 ± 0.16
12	8/27/09	20	0.25 ± 0.04	73.1 ± 10.8	0.34 ± 0.15

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Table F3. Decaked litter characteristics (mean ± SD).

House	Date	n	Percent (wet weight basis)		
			TKN	Solids	Ash
10	01/02/08	12	2.38 ± 0.11	53.6 ± 5.05	N/A
10	02/27/08	12	2.19 ± 0.24	55.3 ± 5.77	N/A
10	06/07/08	12	2.84 ± 0.26	67.3 ± 3.54	N/A
10	08/01/08	12	2.55 ± 0.32	71.7 ± 5.86	N/A
10	12/03/08	12	1.89 ± 0.23	53.1 ± 8.57	12.7 ± 1.99
10	01/26/09	12	1.89 ± 0.22	54.1 ± 3.88	13.3 ± 1.71
10	05/27/09	12	2.41 ± 0.32	54.3 ± 6.44	13.7 ± 1.30
10	07/21/09	12	2.48 ± 0.16	55.9 ± 5.86	12.7 ± 1.77
12	01/02/08	12	2.47 ± 0.17	62.0 ± 6.20	N/A
12	02/27/08	12	2.09 ± 0.31	56.9 ± 6.22	N/A
12	06/07/08	12	2.82 ± 0.43	68.5 ± 5.29	N/A
12	08/01/08	12	2.50 ± 0.53	70.5 ± 7.90	N/A
12	12/03/08	12	1.78 ± 0.20	49.2 ± 4.30	12.6 ± 1.59
12	01/26/09	12	1.82 ± 0.26	51.9 ± 6.60	14.3 ± 2.95
12	05/27/09	12	2.56 ± 0.24	60.7 ± 7.87	15.2 ± 1.31
12	07/21/09	12	2.36 ± 0.20	52.5 ± 4.25	11.6 ± 1.49

Table F4. Loadout litter characteristics (mean ± SD).

House	Date	n	Percent (wet weight basis)	
			TKN	Solids
10	04/15/08	12	2.38 ± 0.33	71.1 ± 7.30
10	09/25/08	12	2.52 ± 0.50	66.6 ± 6.91
10	03/26/09	12	1.74 ± 0.18	59.7 ± 7.76
10	09/13/09	12	2.25 ± 0.26	-
12	04/15/08	12	2.88 ± 0.58	72.5 ± 4.14
12	09/25/08	12	2.47 ± 0.37	71.1 ± 5.26
12	03/26/09	12	2.08 ± 0.34	62.7 ± 6.13
12	09/13/09	12	2.15 ± 0.39	-

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