

Casename

Case 74

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	18.8	61%	High x4 / Low x2	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

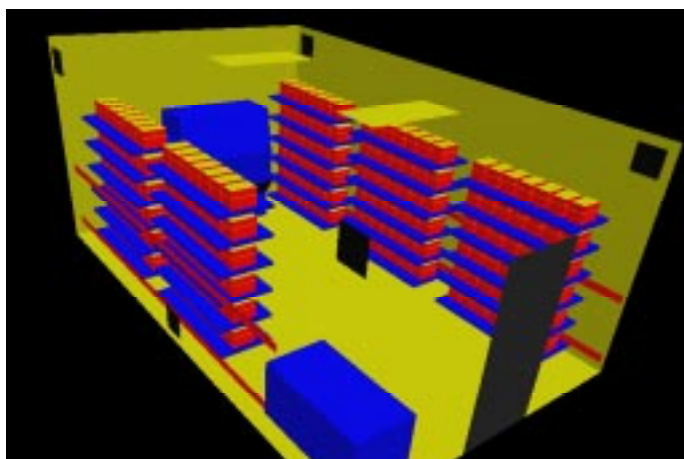
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.62	72.71	1884	62.32%
S.D.	0.29	0.51	345	2.56%
Max.	23.56	74.41	2633	67.44%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.99	1.91	2.94	4.53	6.72	9.53	13.46	17.65	22.68	28.03
Max.	1.38	2.66	4.11	6.33	9.39	13.31	18.81	24.66	31.69	39.17

Room Breathing Zone

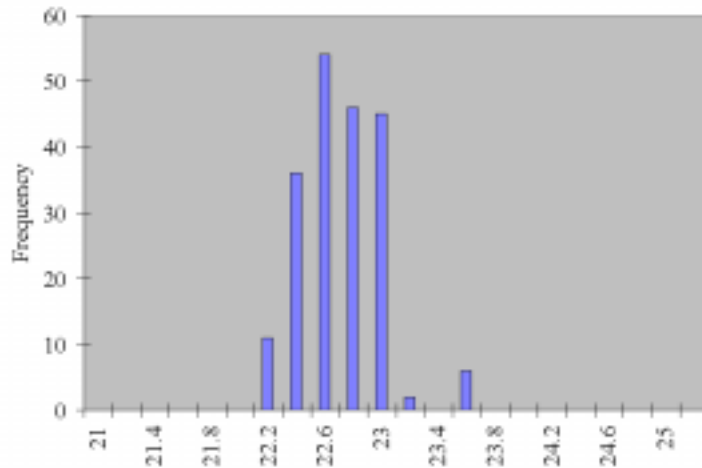
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.09	69.96	48	52.74%
S.D.	0.31	0.56	22	
Max.	22.37	72.26	247	

Room Breathing Zone NH3 (ppm)

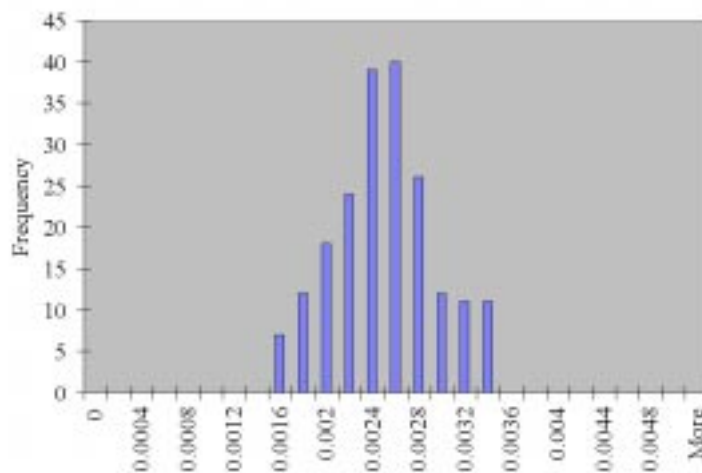
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.02	0.05	0.07	0.11	0.17	0.24	0.34	0.45	0.57	0.71
Max.	0.13	0.25	0.39	0.59	0.88	1.25	1.77	2.32	2.98	3.68

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



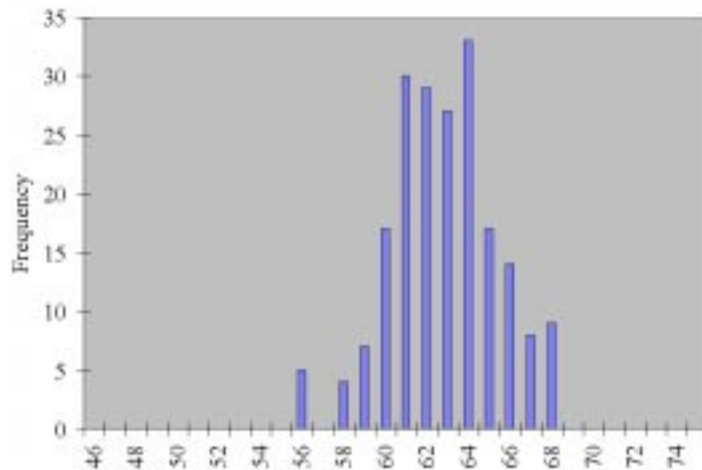
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	411
2	785000	795
3	785000	1225
4	785000	1888
5	785000	2800
6	785000	3969
7	785000	5609
8	785000	7353
9	785000	9447
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 75

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	18.8	61%	Ceiling/Low 50/50	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	On wall	Single	1050	21000 gr	neg 100cfm

Room

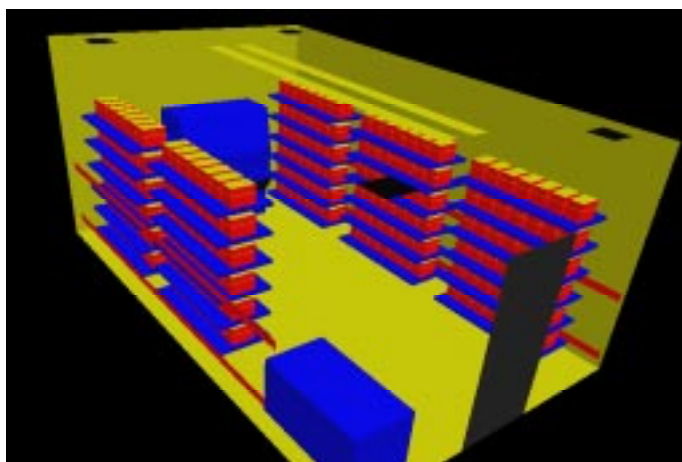
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.88	71.38	1839	64.89%
S.D.	0.19	0.34	362	2.56%
Max.	22.31	72.15	2622	69.92%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.97	1.86	2.87	4.98	8.01	11.70	17.24	21.79	26.73	30.30
Max.	1.39	2.65	4.09	7.10	11.42	16.69	24.58	31.06	38.11	43.20

Room Breathing Zone

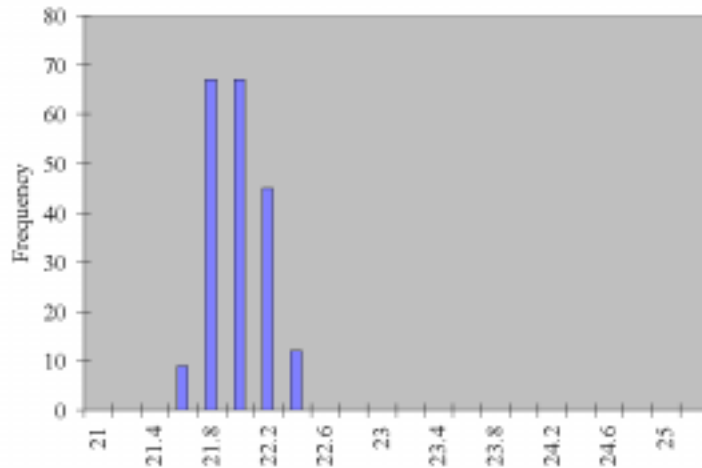
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.09	69.96	48	52.74%
S.D.	0.31	0.56	22	
Max.	22.37	72.26	247	

Room Breathing Zone NH3 (ppm)

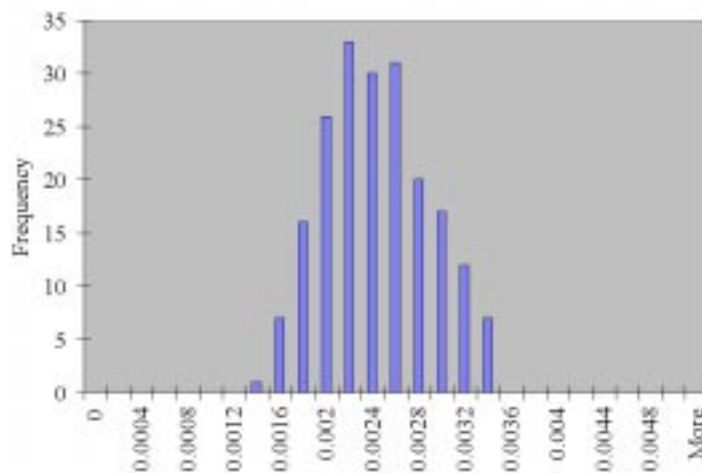
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.05	0.07	0.13	0.21	0.30	0.45	0.57	0.69	0.79
Max.	0.13	0.25	0.39	0.67	1.08	1.57	2.32	2.93	3.60	4.07

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



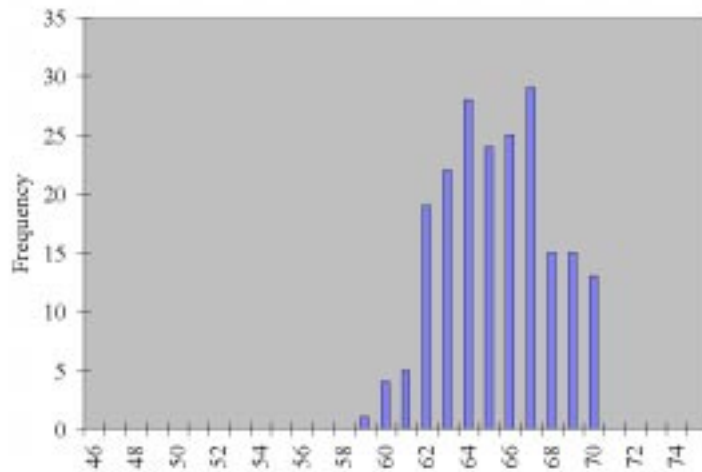
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	415
2	785000	795
3	785000	1225
4	785000	2127
5	785000	3420
6	785000	4996
7	785000	7360
8	785000	9300
9	785000	11410
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 76

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

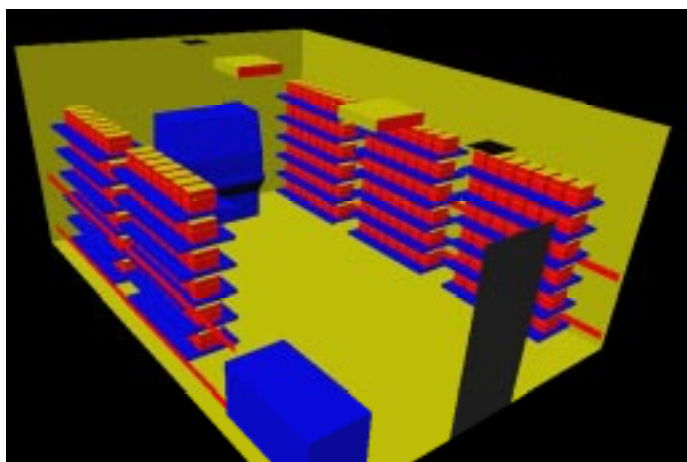
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.13	71.83	1857	64.05%
S.D.	0.18	0.32	302	2.32%
Max.	22.89	73.21	2435	68.79%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.98	1.88	2.90	4.85	7.61	11.03	16.07	20.51	25.49	29.63
Max.	1.28	2.46	3.80	6.36	9.98	14.46	21.07	26.89	33.42	38.85

Room Breathing Zone

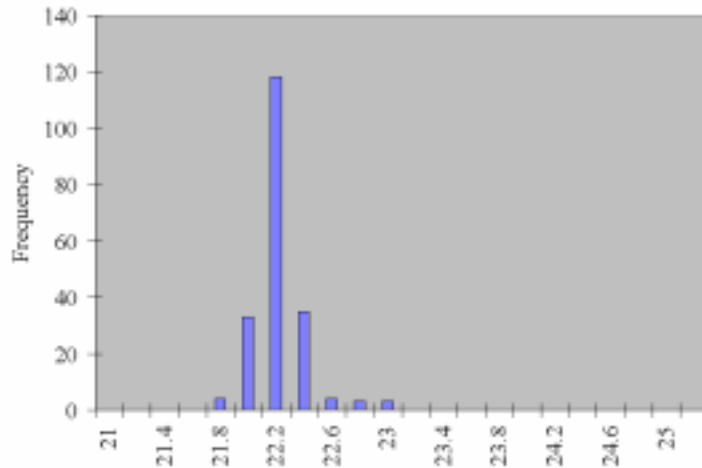
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.39	68.71	55	55.19%
S.D.	0.19	0.35	27	
Max.	21.23	70.21	236	

Room Breathing Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.06	0.09	0.14	0.23	0.33	0.48	0.61	0.76	0.88
Max.	0.12	0.24	0.37	0.62	0.97	1.40	2.04	2.61	3.24	3.77

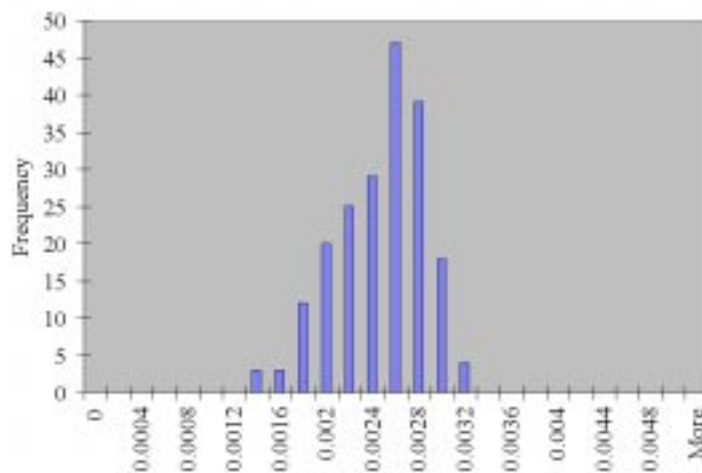
Histogram Distributions

Cage occupied zone average temperature (°C) distribution



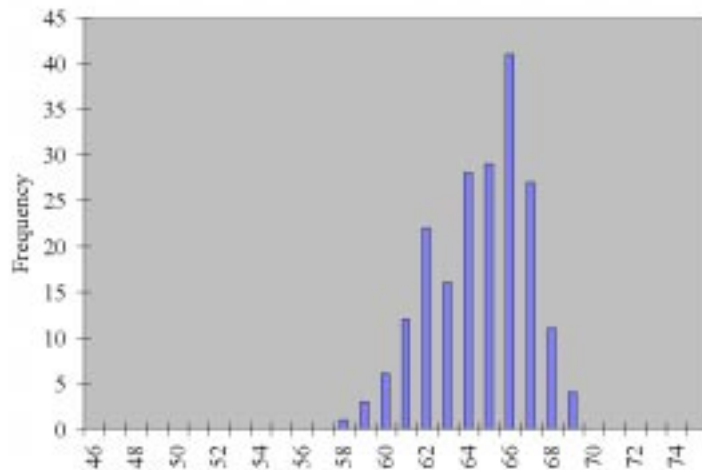
Cage occupied zone average contamination (kg/kg) distribution

Contamination conversion factors
(kg/kg → ppm)



Day	CO ₂	NH ₃
1	785000	414
2	785000	795
3	785000	1225
4	785000	2049
5	785000	3218
6	785000	4662
7	785000	6791
8	785000	8667
9	785000	10772
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 77

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

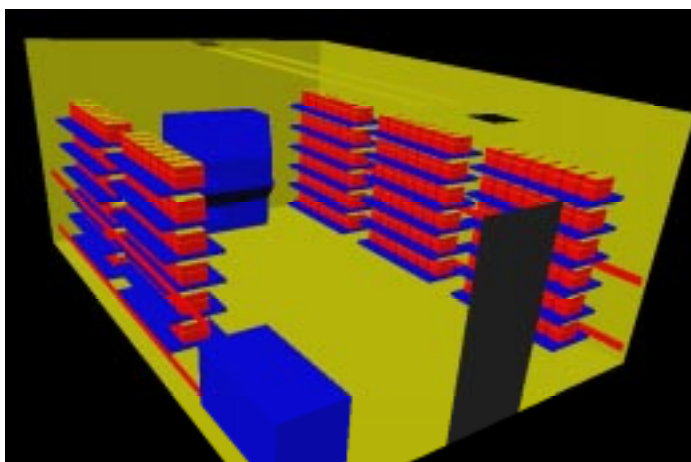
ACH

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Cage

Condition

Top On



Analysis Results

Cage Occupied Zone

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.14	71.86	1881	64.17%
S.D.	0.26	0.46	351	2.58%
Max.	22.90	73.22	2652	70.61%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.99	1.90	2.93	4.94	7.78	11.29	16.47	20.98	26.03	30.15
Max.	1.40	2.68	4.14	6.96	10.97	15.91	23.22	29.59	36.70	42.51

Room Breathing Zone

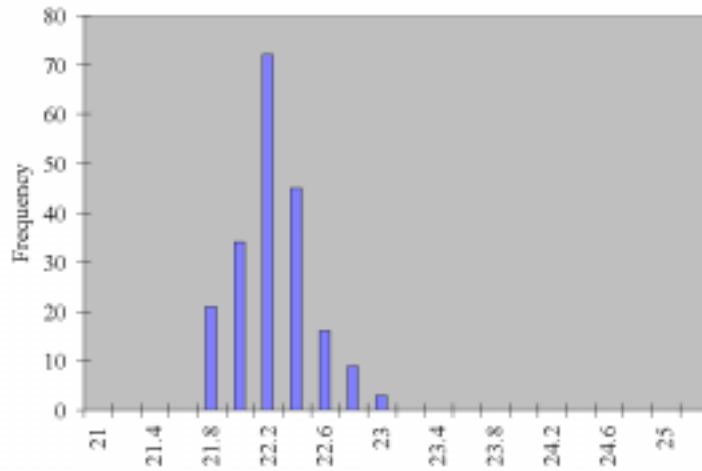
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.39	68.70	50	55.16%
S.D.	0.23	0.42	21	
Max.	21.44	70.59	191	

Room Breathing Zone NH3 (ppm)

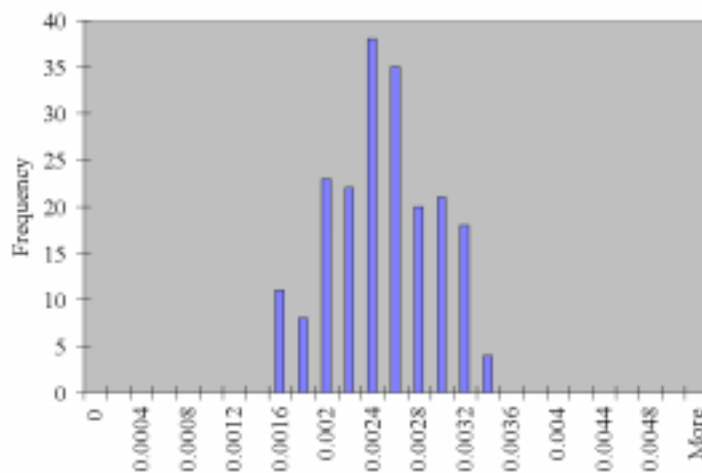
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.05	0.08	0.13	0.21	0.30	0.44	0.56	0.70	0.81
Max.	0.10	0.19	0.30	0.50	0.79	1.14	1.67	2.13	2.64	3.06

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



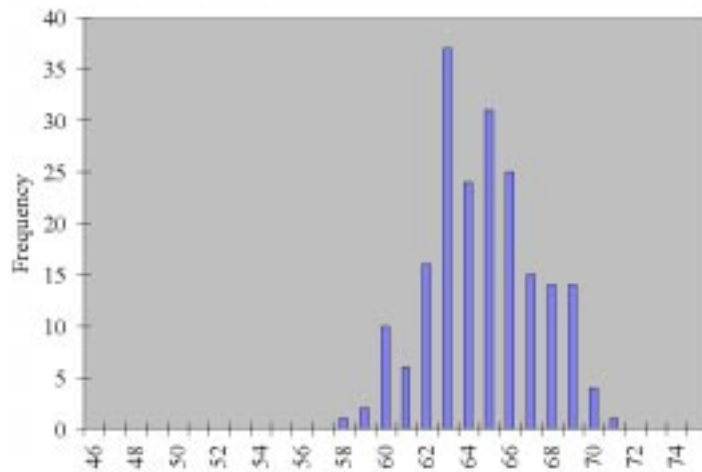
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	414
2	785000	795
3	785000	1225
4	785000	2060
5	785000	3247
6	785000	4710
7	785000	6872
8	785000	8758
9	785000	10864
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 78

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

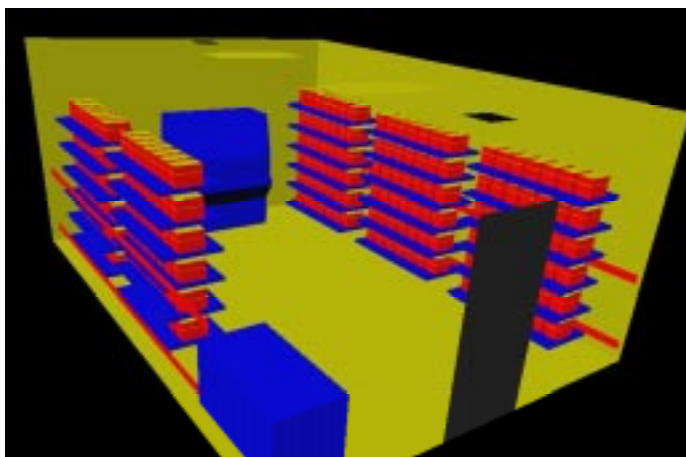
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.09	71.76	1919	64.69%
S.D.	0.22	0.40	362	2.65%
Max.	22.67	72.81	2625	70.05%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.01	1.94	2.99	5.16	8.25	12.03	17.67	22.38	27.54	31.38
Max.	1.39	2.66	4.10	7.05	11.28	16.45	24.17	30.61	37.66	42.92

Room Breathing Zone

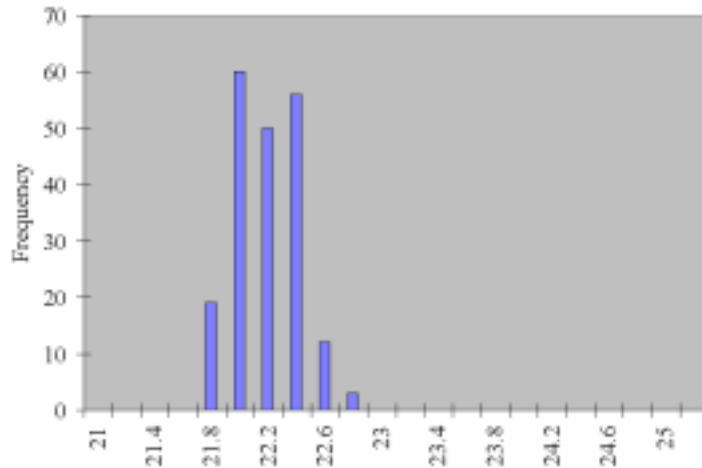
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.41	68.74	55	55.13%
S.D.	0.24	0.44	20	
Max.	22.13	71.84	212	

Room Breathing Zone NH₃ (ppm)

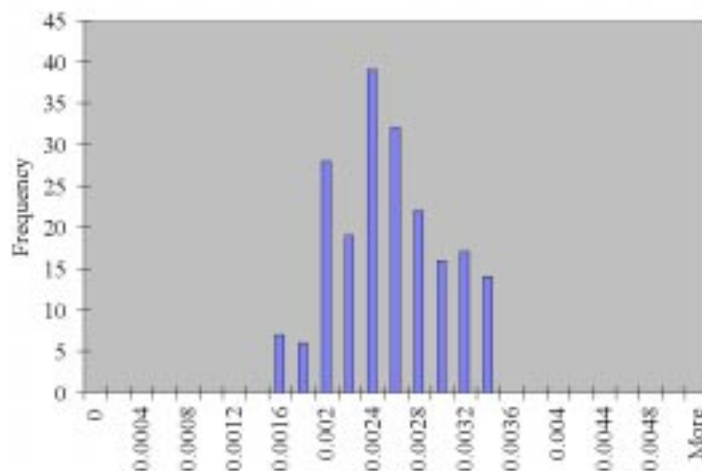
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.06	0.09	0.15	0.24	0.35	0.51	0.64	0.79	0.90
Max.	0.11	0.21	0.33	0.57	0.91	1.33	1.95	2.47	3.04	3.46

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



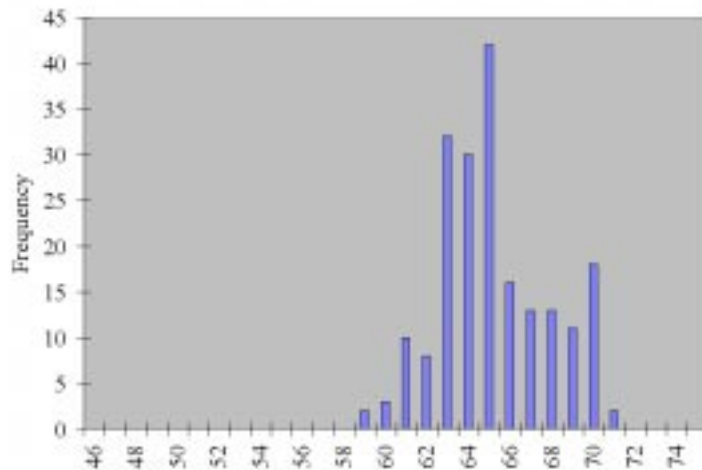
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	415
2	785000	795
3	785000	1225
4	785000	2109
5	785000	3373
6	785000	4919
7	785000	7229
8	785000	9154
9	785000	11263
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 79

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	18.8	61%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

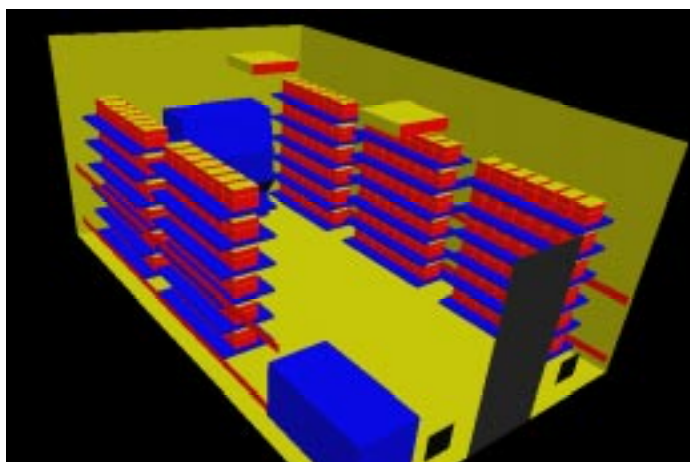
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	23.12	73.62	1647	58.59%
S.D.	0.37	0.66	301	2.52%
Max.	24.34	75.81	2355	63.76%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.86	1.67	2.57	3.70	5.21	7.22	9.88	13.33	17.71	23.15
Max.	1.22	2.38	3.67	5.30	7.45	10.33	14.13	19.07	25.32	33.10

Room Breathing Zone

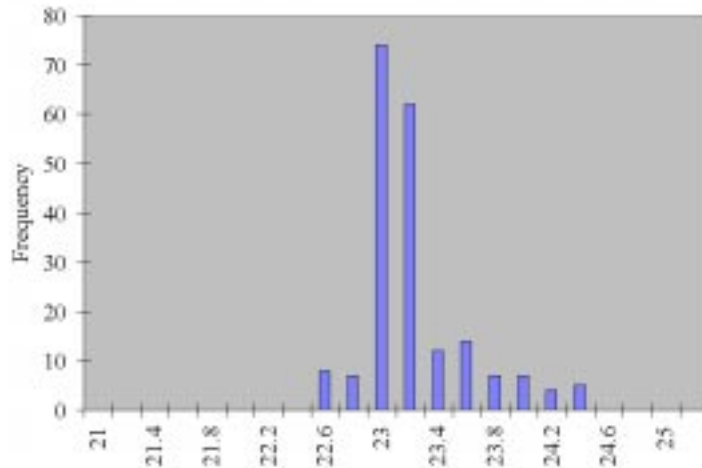
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.94	71.49	81	50.26%
S.D.	0.36	0.64	26	
Max.	22.89	73.20	195	

Room Breathing Zone NH₃ (ppm)

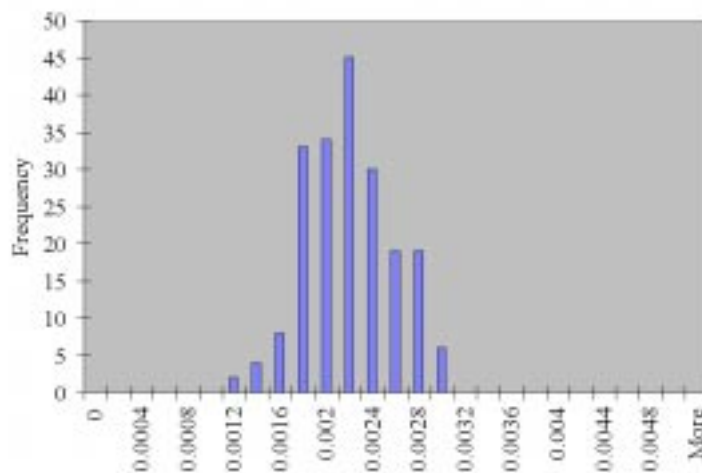
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.04	0.08	0.13	0.18	0.26	0.36	0.49	0.66	0.87	1.14
Max.	0.10	0.20	0.30	0.44	0.62	0.86	1.17	1.58	2.10	2.74

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



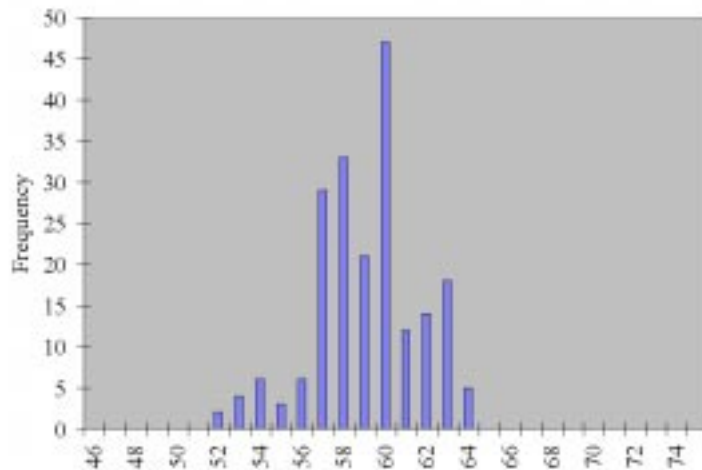
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 80

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	18.8	61%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

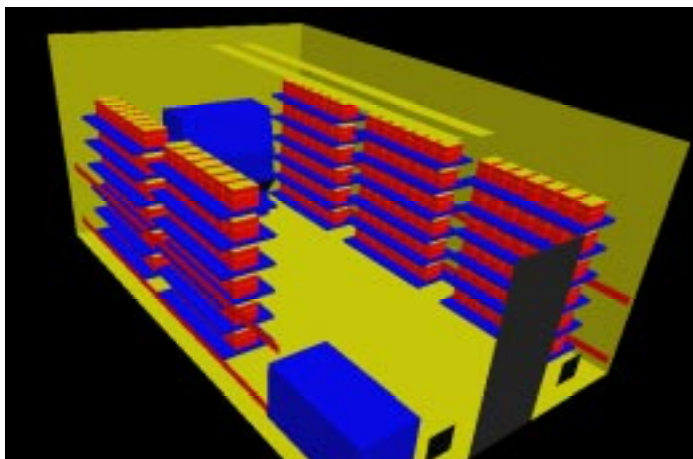
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	23.22	73.80	1707	58.68%
S.D.	0.44	0.79	311	2.60%
Max.	24.40	75.91	2688	64.90%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.89	1.73	2.66	3.84	5.40	7.49	10.24	13.82	18.35	23.99
Max.	1.40	2.72	4.19	6.05	8.50	11.79	16.14	21.77	28.91	37.79

Room Breathing Zone

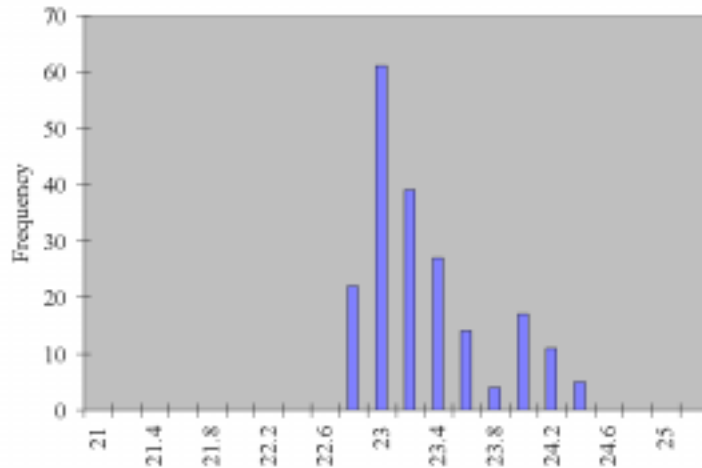
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.10	71.77	90	49.83%
S.D.	0.43	0.78	22	
Max.	23.07	73.52	207	

Room Breathing Zone NH3 (ppm)

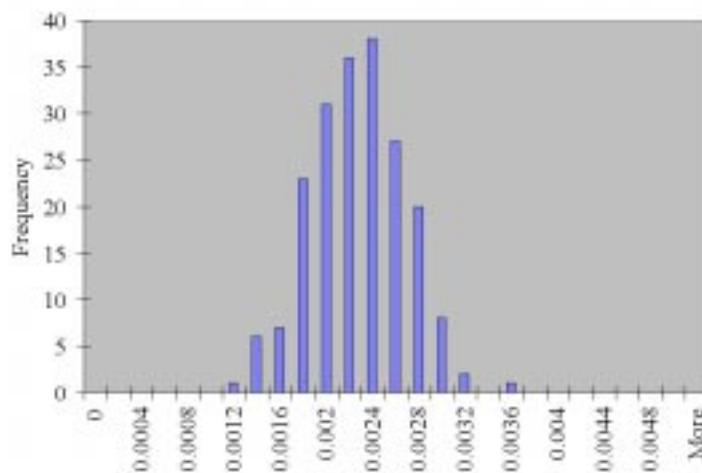
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.05	0.09	0.14	0.20	0.29	0.40	0.54	0.73	0.97	1.27
Max.	0.11	0.21	0.32	0.47	0.65	0.91	1.24	1.68	2.23	2.91

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



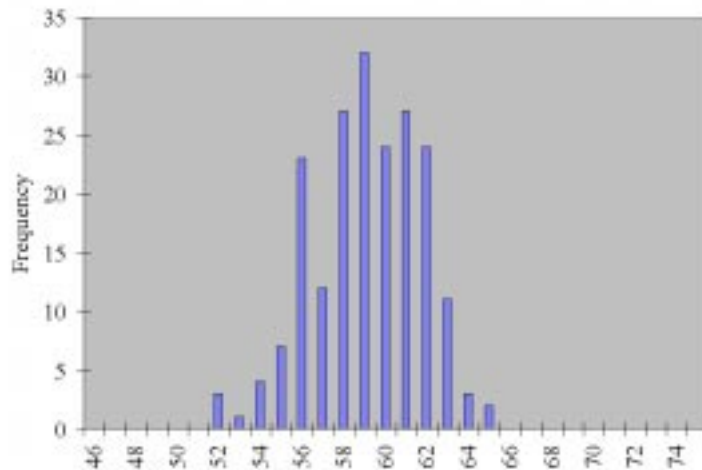
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 81

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	18.8	61%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

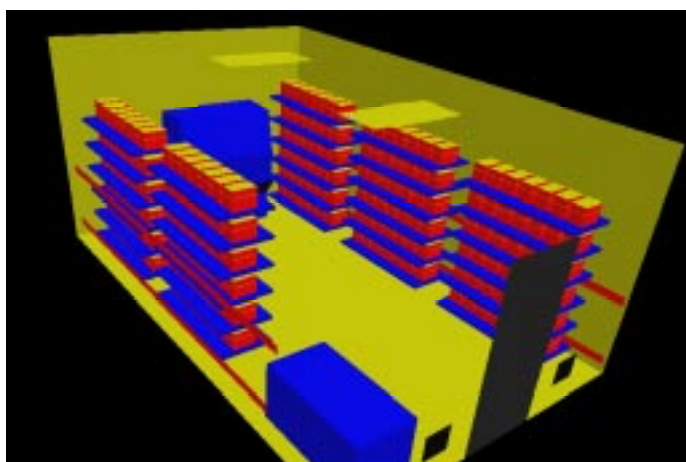
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	23.40	74.13	1741	58.28%
S.D.	0.48	0.86	293	2.45%
Max.	24.45	76.00	2720	63.62%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.91	1.76	2.72	3.92	5.51	7.64	10.45	14.10	18.72	24.47
Max.	1.41	2.75	4.24	6.12	8.60	11.93	16.33	22.03	29.25	38.24

Room Breathing Zone

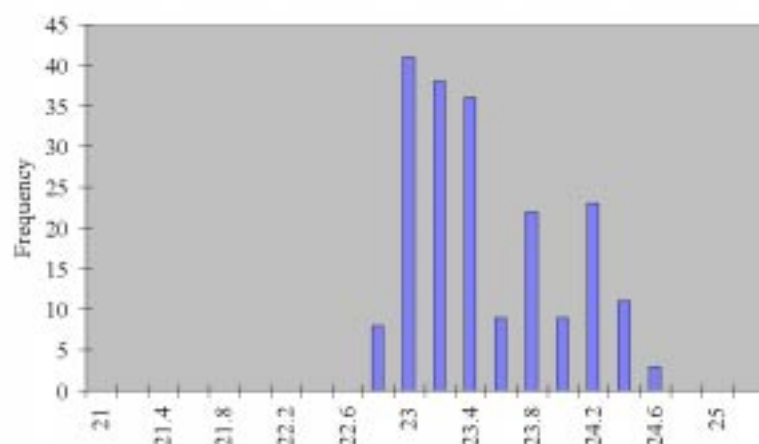
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.45	72.41	89	48.73%
S.D.	0.55	0.99	30	
Max.	23.36	74.05	278	

Room Breathing Zone NH₃ (ppm)

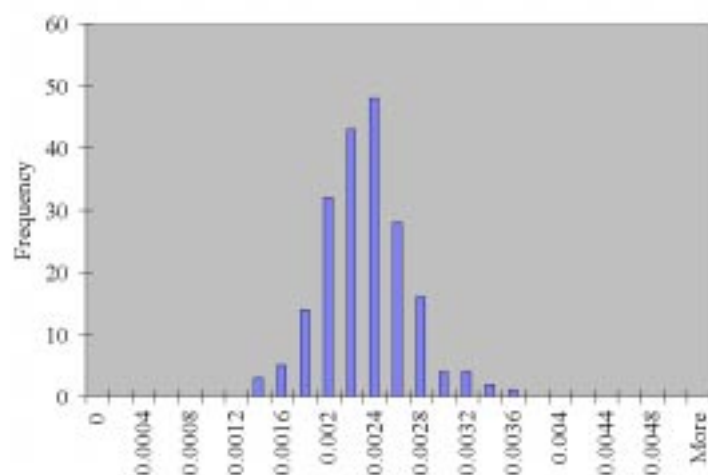
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.05	0.09	0.14	0.20	0.28	0.39	0.54	0.72	0.96	1.25
Max.	0.14	0.28	0.43	0.63	0.88	1.22	1.67	2.25	2.99	3.91

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



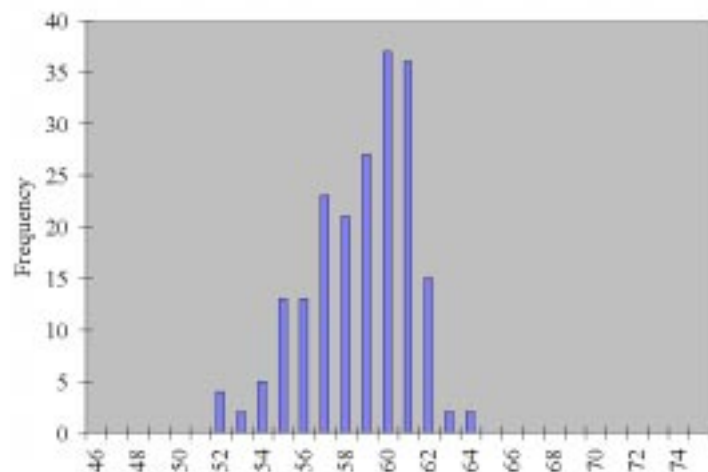
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 82

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	18.8	61%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

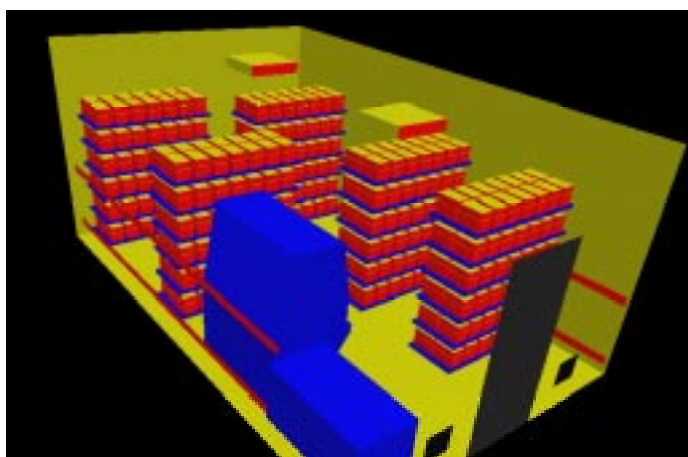
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.29	72.13	1667	61.88%
S.D.	0.53	0.96	419	3.59%
Max.	23.63	74.53	2794	68.39%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.87	1.69	2.60	3.92	5.72	8.06	11.28	14.91	19.35	24.34
Max.	1.46	2.83	4.36	6.58	9.59	13.51	18.91	25.00	32.45	40.81

Room Breathing Zone

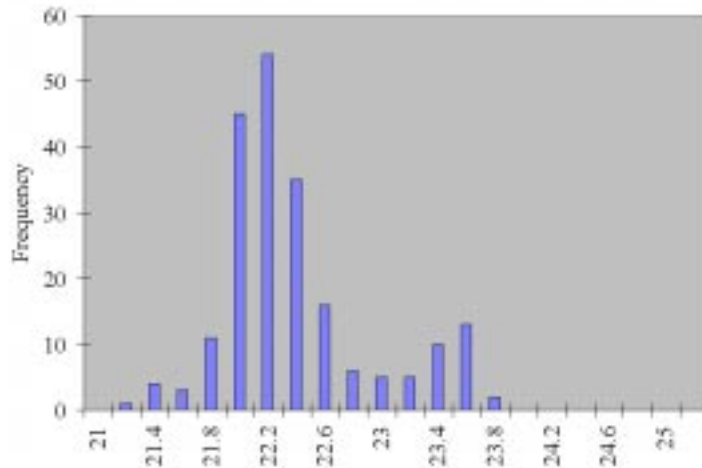
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.26	70.27	116	52.75%
S.D.	0.91	1.64	53	
Max.	27.19	80.94	332	

Room Breathing Zone NH3 (ppm)

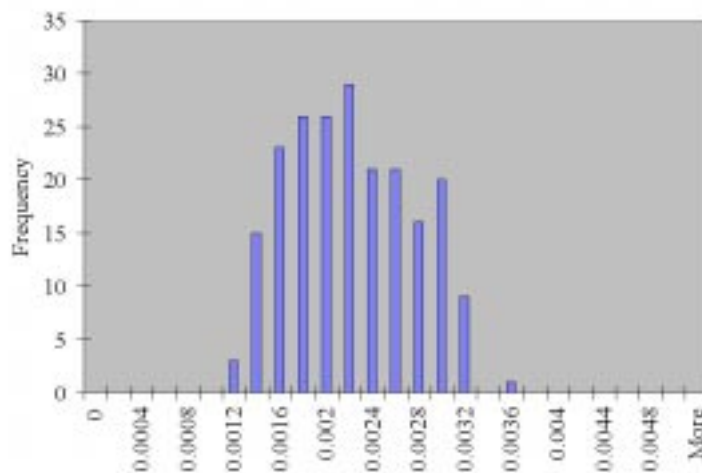
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.06	0.12	0.18	0.27	0.40	0.56	0.79	1.04	1.35	1.70
Max.	0.17	0.34	0.52	0.78	1.14	1.61	2.25	2.97	3.86	4.86

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



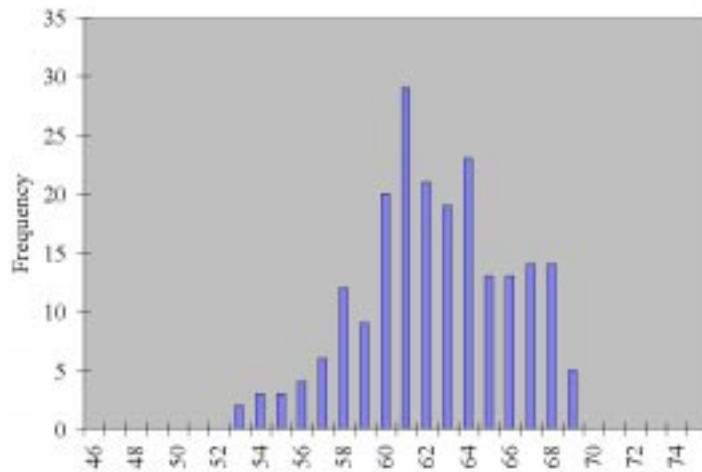
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	410
2	785000	795
3	785000	1225
4	785000	1848
5	785000	2695
6	785000	3795
7	785000	5313
8	785000	7024
9	785000	9115
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 83

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	17.5	66%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp	Double	2100	42000 gr	neg 100cfm

Room

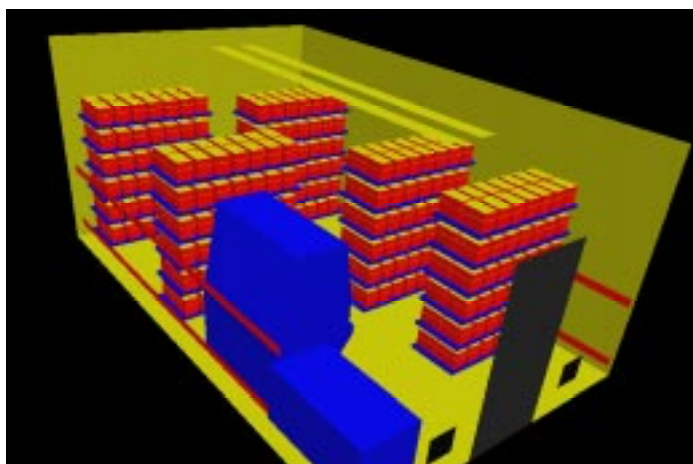
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.20	71.97	1756	66.78%
S.D.	0.66	1.19	477	2.60%
Max.	23.55	74.39	3023	75.06%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.94	1.78	2.74	5.15	8.67	12.87	19.34	24.01	28.75	30.99
Max.	1.61	3.06	4.72	8.87	14.92	22.15	33.31	41.33	49.50	53.35

Room Breathing Zone

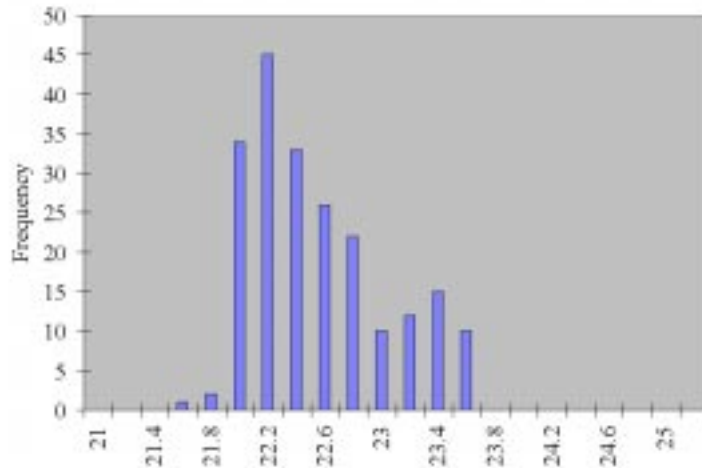
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.44	70.58	167	52.60%
S.D.	0.81	1.46	42	
Max.	26.98	80.56	403	

Room Breathing Zone NH₃ (ppm)

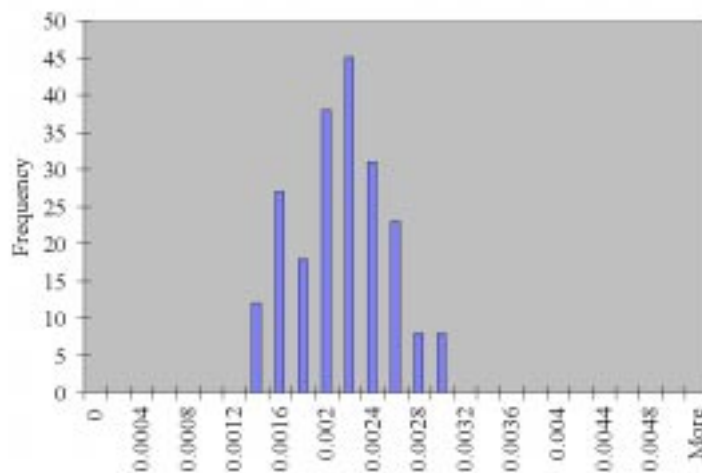
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.09	0.17	0.26	0.49	0.82	1.22	1.84	2.28	2.73	2.94
Max.	0.21	0.41	0.63	1.18	1.99	2.95	4.44	5.51	6.60	7.11

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



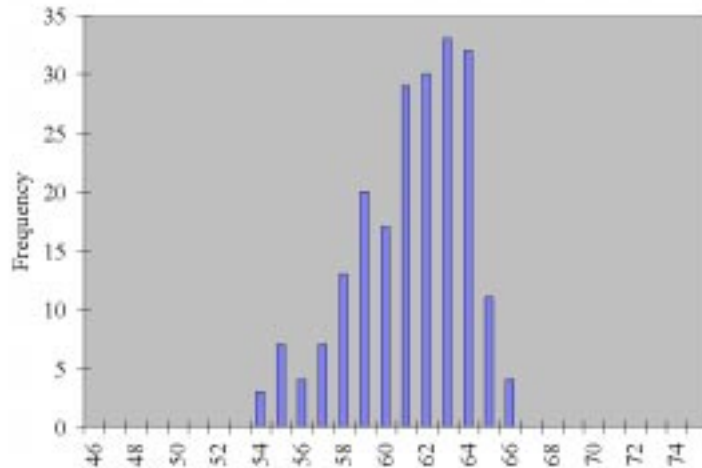
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	418
2	785000	795
3	785000	1225
4	785000	2303
5	785000	3876
6	785000	5752
7	785000	8650
8	785000	10734
9	785000	12856
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 84

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	17.5	66%	2 Door exhausts	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp	Double	2100	42000 gr	neg 100cfm

Room

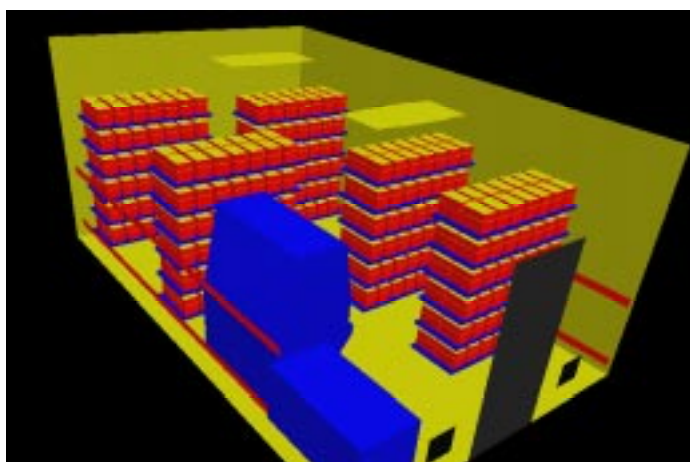
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.48	72.46	1853	60.88%
S.D.	0.48	0.87	443	3.20%
Max.	23.73	74.71	2964	66.31%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.96	1.88	2.89	4.17	5.86	8.13	11.12	15.00	19.93	26.05
Max.	1.54	3.00	4.62	6.67	9.37	13.00	17.79	24.00	31.87	41.66

Room Breathing Zone

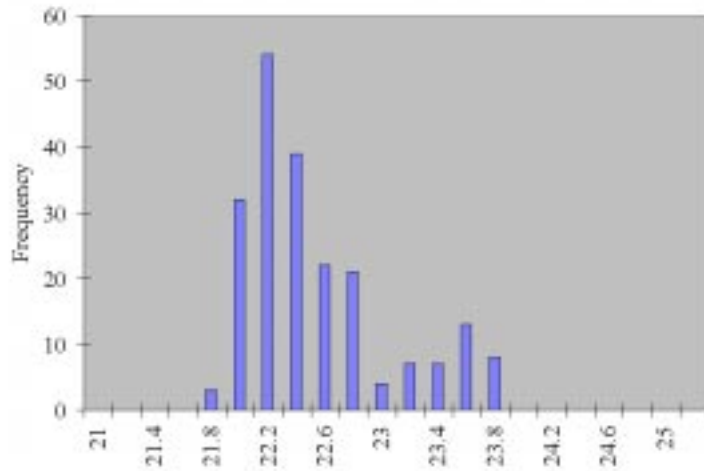
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.48	70.67	152	52.33%
S.D.	0.89	1.60	47	
Max.	26.19	79.14	380	

Room Breathing Zone NH₃ (ppm)

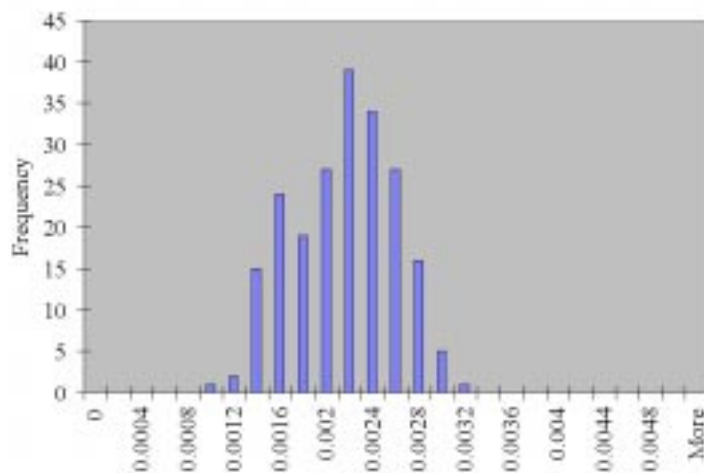
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.08	0.15	0.24	0.34	0.48	0.67	0.91	1.23	1.64	2.14
Max.	0.20	0.38	0.59	0.85	1.20	1.67	2.28	3.07	4.08	5.34

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



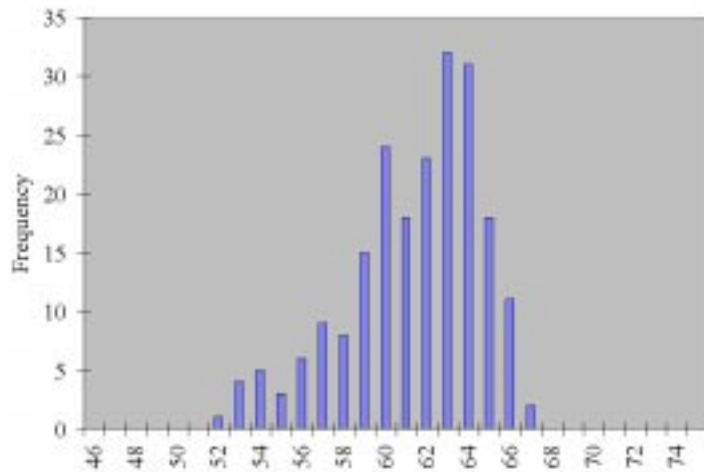
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 85

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	17.5	66%	Low	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp	Double	2100	42000 gr	neg 100cfm

Room

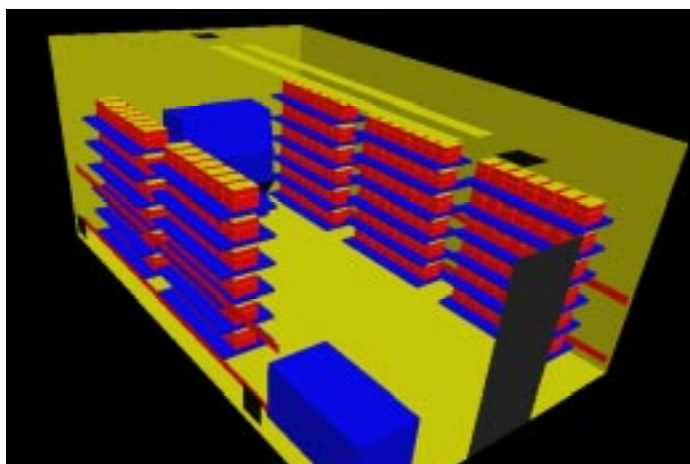
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.37	72.27	1930	62.82%
S.D.	0.31	0.57	425	2.86%
Max.	23.02	73.44	2840	68.68%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.01	1.95	3.01	4.76	7.19	10.26	14.64	19.02	24.18	29.32
Max.	1.49	2.87	4.43	7.00	10.57	15.09	21.54	27.99	35.58	43.14

Room Breathing Zone

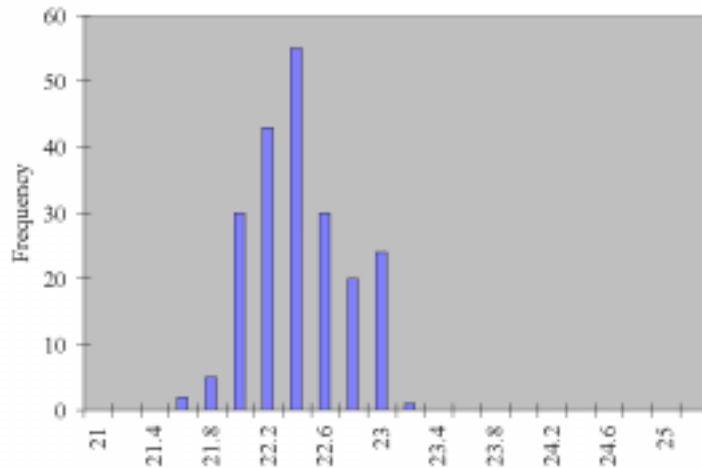
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.74	69.33	132	54.66%
S.D.	0.36	0.65	53	
Max.	21.49	70.68	445	

Room Breathing Zone NH₃ (ppm)

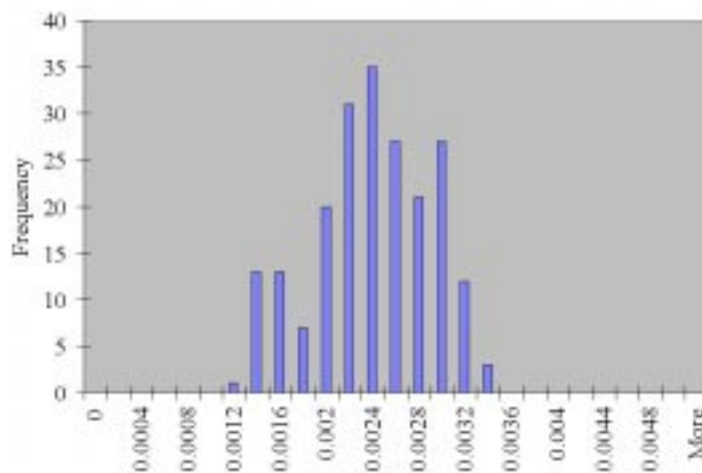
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.07	0.13	0.21	0.33	0.49	0.70	1.00	1.30	1.65	2.00
Max.	0.23	0.45	0.69	1.10	1.66	2.36	3.37	4.38	5.57	6.75

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



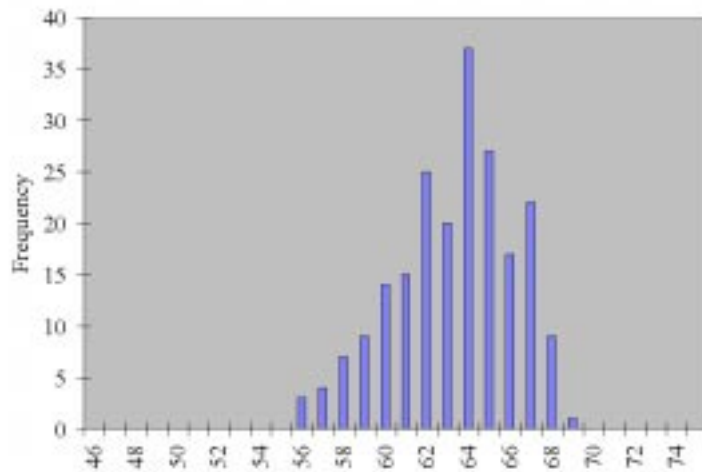
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	411
2	785000	795
3	785000	1225
4	785000	1935
5	785000	2922
6	785000	4171
7	785000	5953
8	785000	7736
9	785000	9833
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 86

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	17.5	66%	Low	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp	Double	2100	42000 gr	neg 100cfm

Room

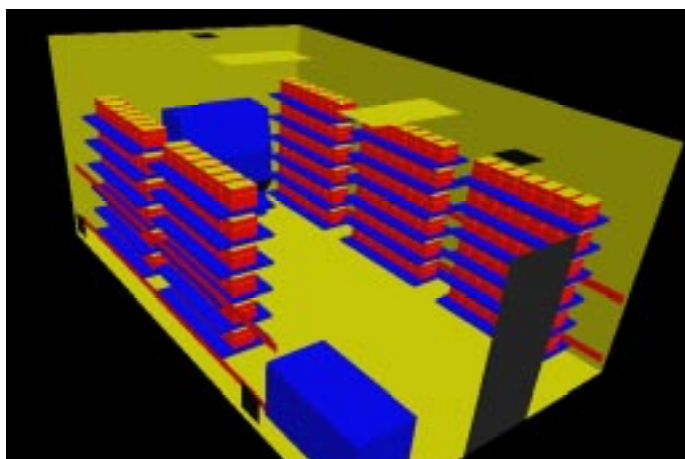
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.30	72.13	1917	62.01%
S.D.	0.45	0.81	554	3.29%
Max.	23.25	73.84	3249	72.05%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.00	1.94	2.99	4.54	6.66	9.39	13.19	17.39	22.50	28.15
Max.	1.70	3.29	5.07	7.70	11.28	15.92	22.35	29.47	38.13	47.71

Room Breathing Zone

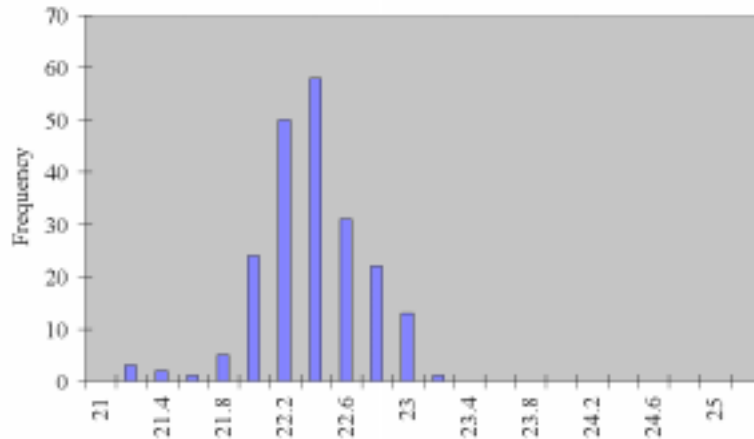
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.18	70.13	124	53.08%
S.D.	0.44	0.79	67	
Max.	22.27	72.08	374	

Room Breathing Zone NH3 (ppm)

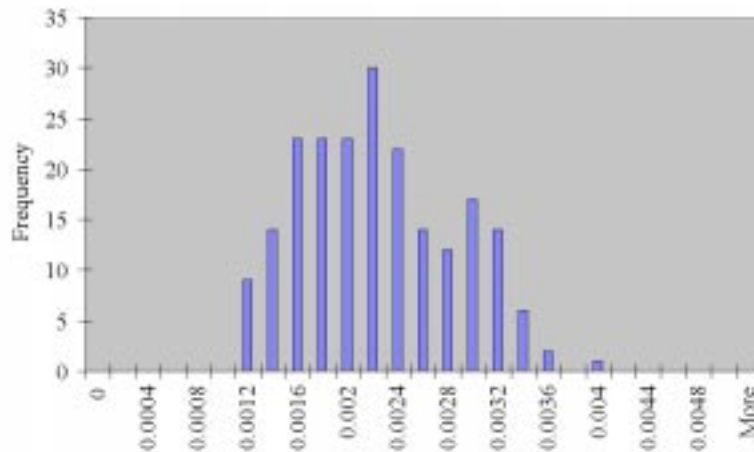
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.06	0.13	0.19	0.29	0.43	0.61	0.85	1.13	1.46	1.82
Max.	0.20	0.38	0.58	0.89	1.30	1.83	2.57	3.39	4.39	5.49

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



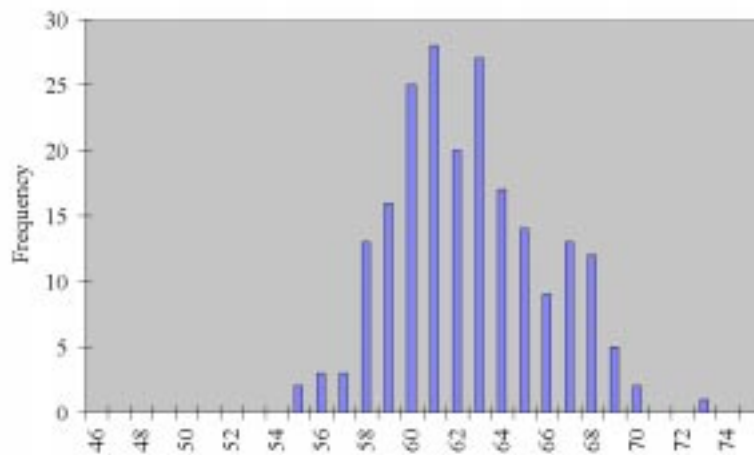
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	410
2	785000	795
3	785000	1225
4	785000	1859
5	785000	2726
6	785000	3846
7	785000	5400
8	785000	7121
9	785000	9213
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 87

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	19.2	59%	Low	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Reduced	700	14000 gr	neg 100cfm

Room

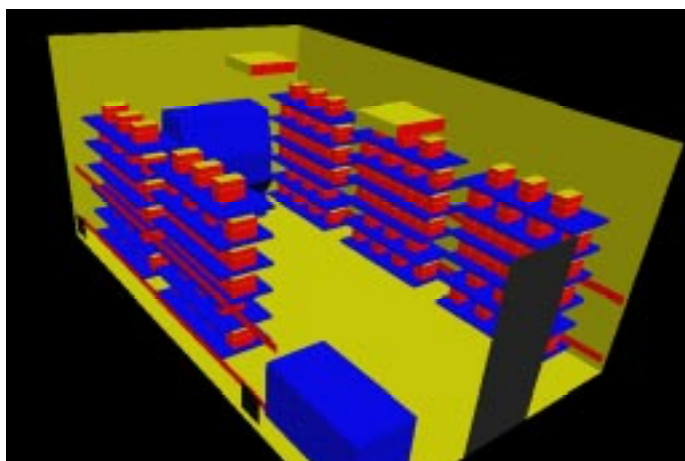
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.65	72.77	1391	55.84%
S.D.	4.31	7.76	455	3.11%
Max.	24.56	76.21	2638	64.18%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.72	1.41	2.17	3.13	4.40	6.10	8.35	11.26	14.96	19.55
Max.	1.37	2.67	4.12	5.93	8.34	11.57	15.84	21.36	28.37	37.09

Room Breathing Zone

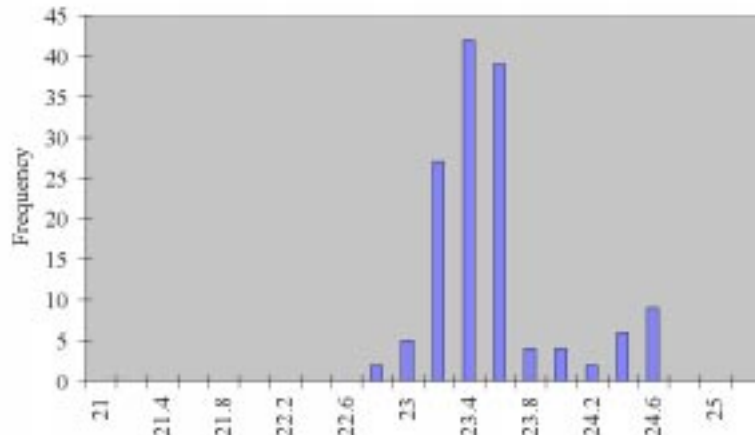
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.45	72.41	45	48.38%
S.D.	0.39	0.71	17	
Max.	23.63	74.53	134	

Room Breathing Zone NH3 (ppm)

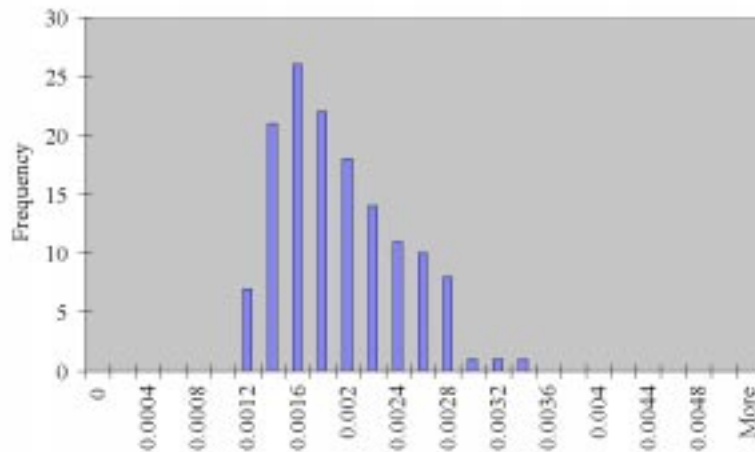
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.02	0.05	0.07	0.10	0.14	0.20	0.27	0.36	0.48	0.63
Max.	0.07	0.14	0.21	0.30	0.42	0.59	0.81	1.09	1.44	1.89

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



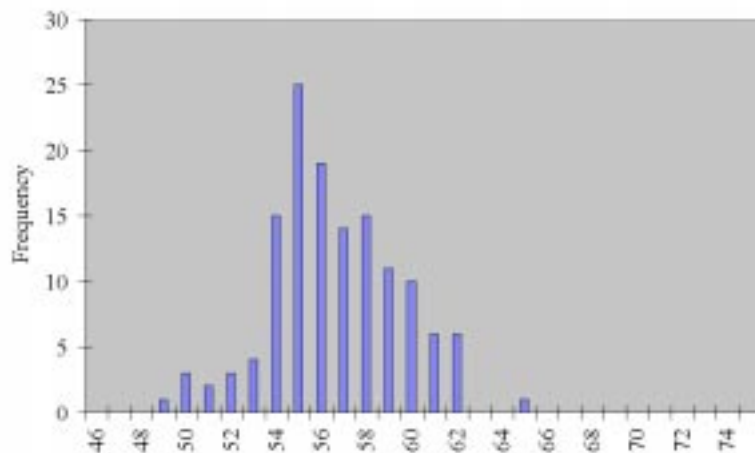
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 88**Description**

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	19.2	59%	Low	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Reduced	700	14000 gr	neg 100cfm

Room

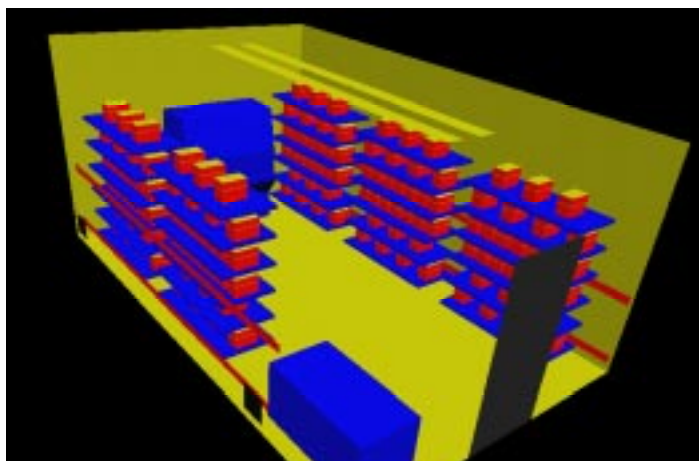
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	23.55	74.39	1550	56.31%
S.D.	0.39	0.70	378	2.71%
Max.	24.53	76.16	2516	63.30%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.81	1.57	2.42	3.49	4.90	6.80	9.30	12.55	16.67	21.78
Max.	1.31	2.55	3.93	5.66	7.96	11.04	15.10	20.37	27.06	35.37

Room Breathing Zone

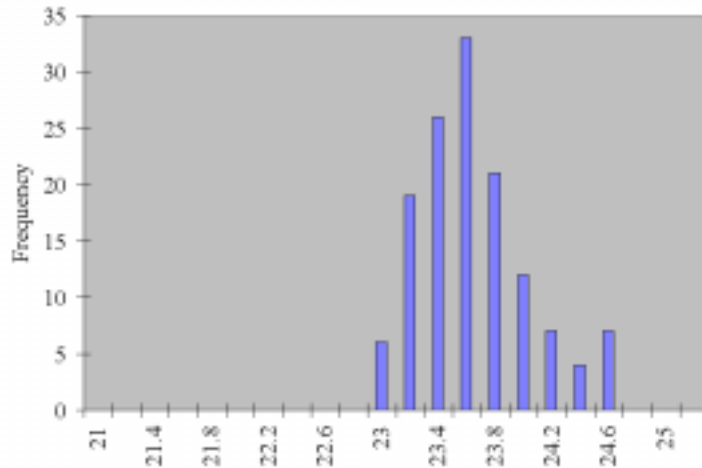
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.56	72.61	48	48.07%
S.D.	0.44	0.79	11	
Max.	23.62	74.52	86	

Room Breathing Zone NH3 (ppm)

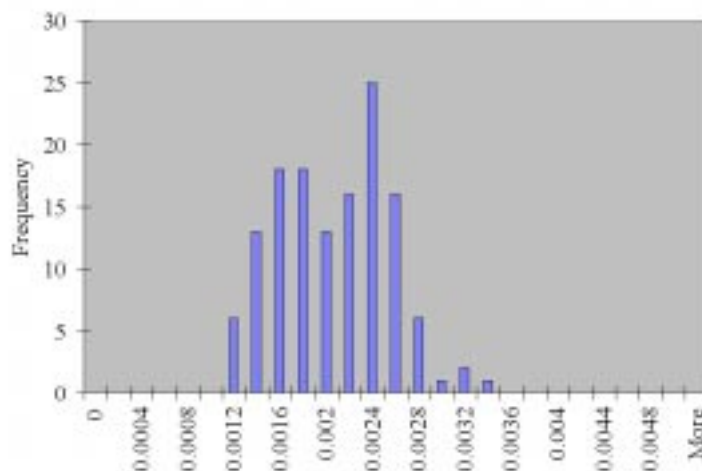
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.02	0.05	0.07	0.11	0.15	0.21	0.29	0.39	0.51	0.67
Max.	0.04	0.09	0.13	0.19	0.27	0.38	0.51	0.69	0.92	1.21

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



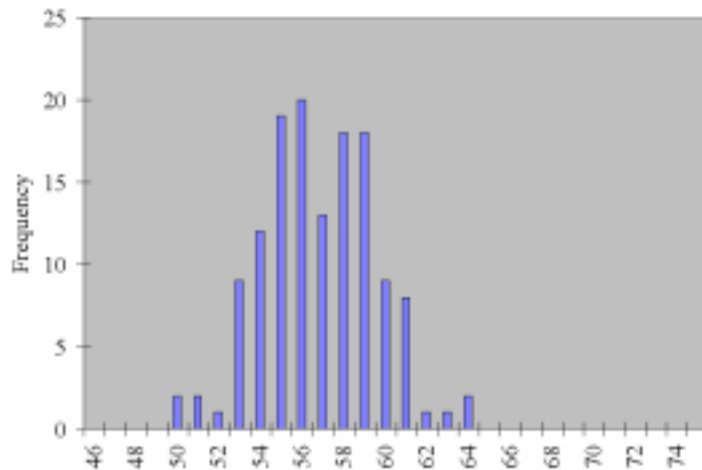
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 89

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	19.2	59%	Low	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Reduced	700	14000 gr	neg 100cfm

Room

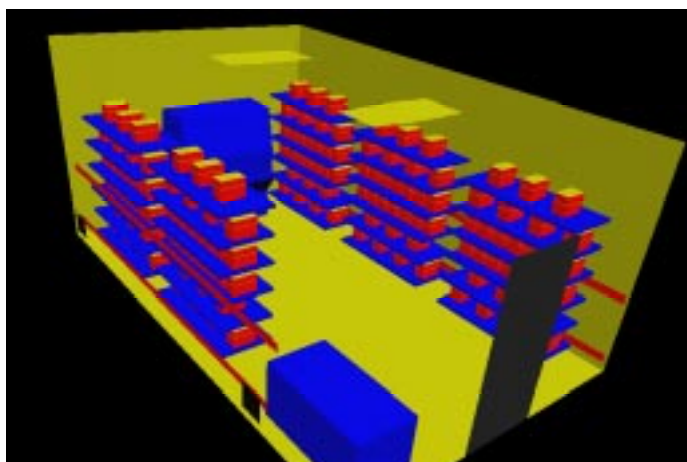
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	23.68	74.62	1636	56.53%
S.D.	0.44	0.80	374	3.10%
Max.	24.92	76.86	2599	63.57%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.85	1.66	2.55	3.68	5.17	7.17	9.82	13.25	17.59	23.00
Max.	1.35	2.63	4.05	5.85	8.22	11.40	15.60	21.04	27.95	36.53

Room Breathing Zone

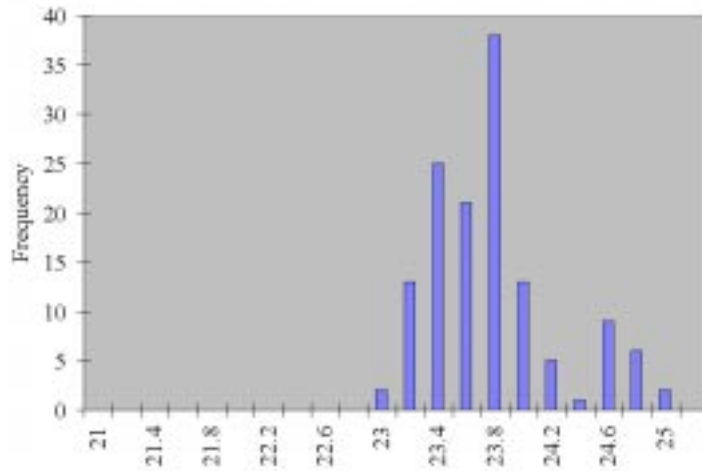
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	22.92	73.26	62	47.10%
S.D.	0.55	1.00	21	
Max.	24.09	75.36	217	

Room Breathing Zone NH₃ (ppm)

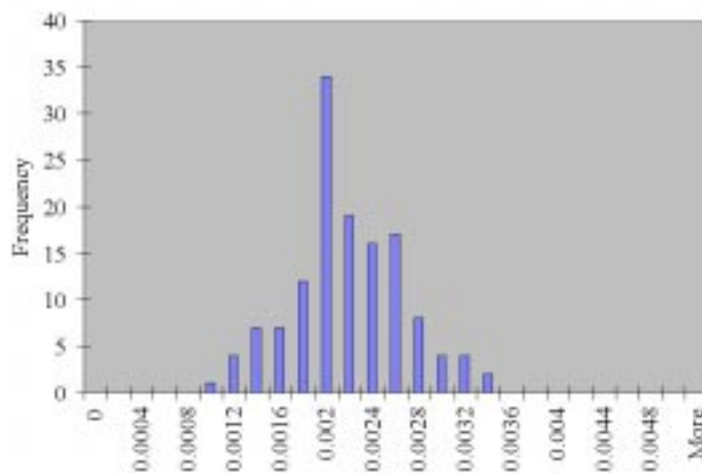
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.06	0.10	0.14	0.20	0.27	0.37	0.50	0.67	0.87
Max.	0.11	0.22	0.34	0.49	0.69	0.95	1.30	1.75	2.33	3.04

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



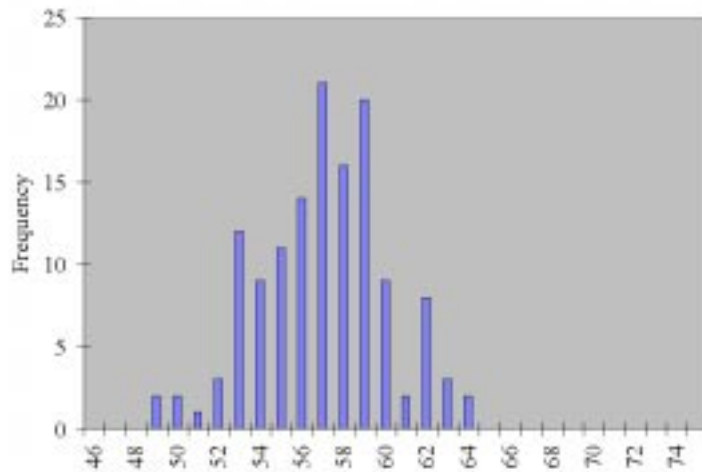
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 90

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Single	1050	21000 gr	neg 100cfm

Room

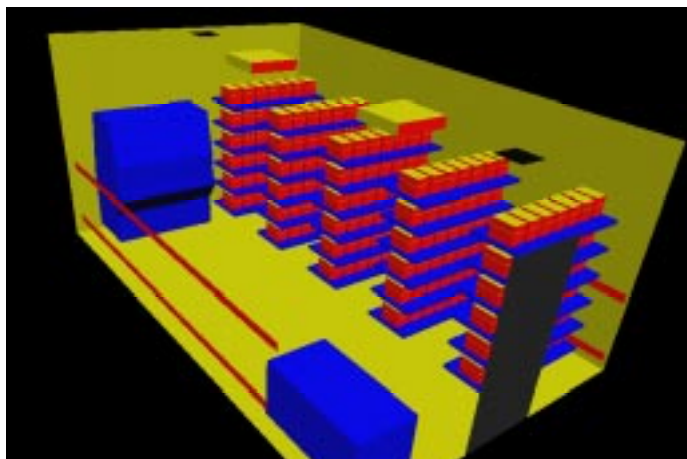
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.93	71.47	1673	63.32%
S.D.	0.29	0.52	385	2.63%
Max.	22.36	72.24	2511	69.19%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.88	1.69	2.61	4.22	6.48	9.32	13.41	17.29	21.77	25.93
Max.	1.32	2.54	3.92	6.34	9.73	13.98	20.13	25.96	32.68	38.92

Room Breathing Zone

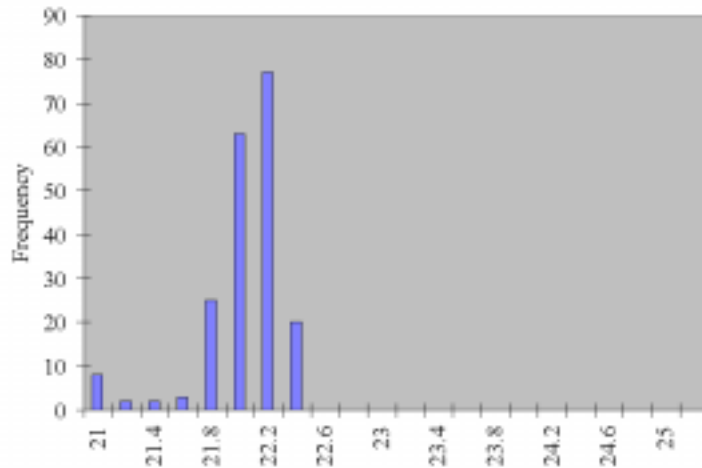
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.38	68.69	72	55.37%
S.D.	0.23	0.41	29	
Max.	21.75	71.15	279	

Room Breathing Zone NH3 (ppm)

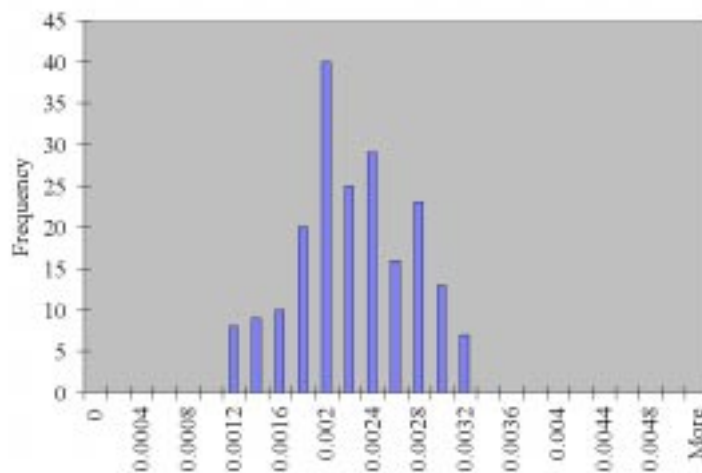
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.04	0.07	0.11	0.18	0.28	0.40	0.57	0.74	0.93	1.11
Max.	0.15	0.28	0.44	0.70	1.08	1.55	2.24	2.89	3.63	4.33

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



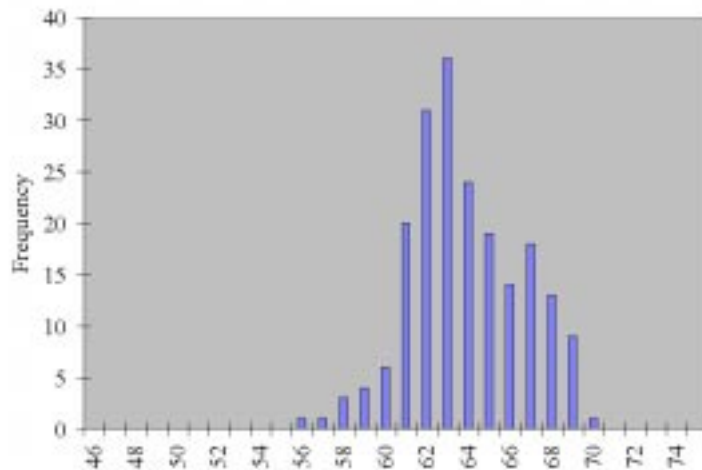
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	412
2	785000	795
3	785000	1225
4	785000	1982
5	785000	3043
6	785000	4371
7	785000	6295
8	785000	8116
9	785000	10216
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 91

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Single	1050	21000 gr	neg 100cfm

Room

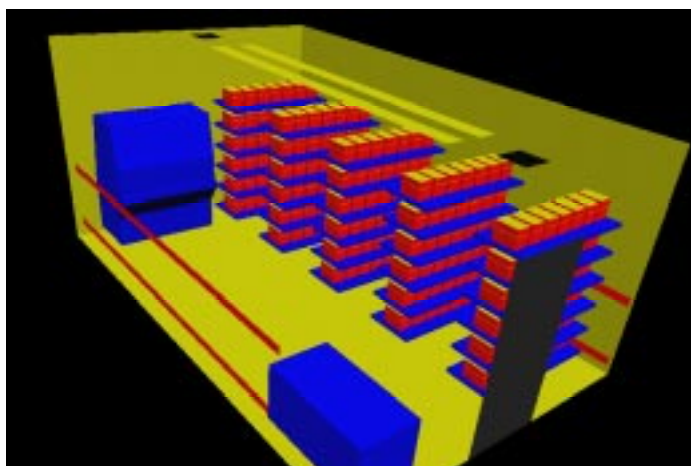
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.99	71.58	1709	63.38%
S.D.	0.30	0.54	381	2.49%
Max.	22.59	72.67	2643	69.86%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.90	1.73	2.67	4.33	6.65	9.57	13.79	17.76	22.33	26.55
Max.	1.39	2.68	4.12	6.69	10.29	14.79	21.32	27.47	34.54	41.07

Room Breathing Zone

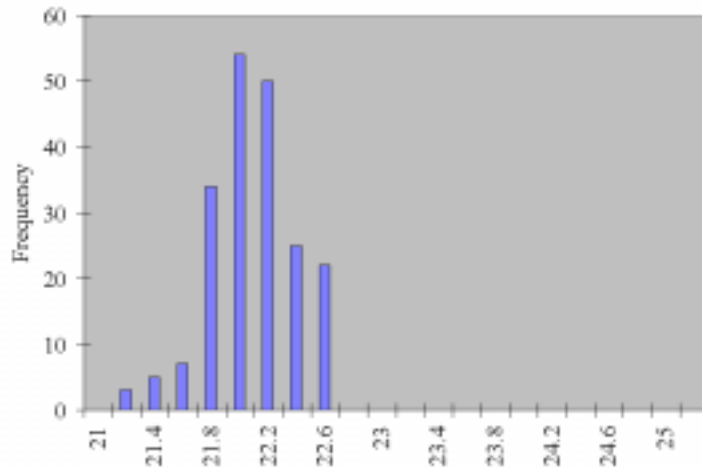
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.46	68.83	57	54.97%
S.D.	0.25	0.44	19	
Max.	21.66	70.99	183	

Room Breathing Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.03	0.06	0.09	0.14	0.22	0.32	0.46	0.59	0.75	0.89
Max.	0.10	0.19	0.29	0.46	0.71	1.03	1.48	1.90	2.39	2.85

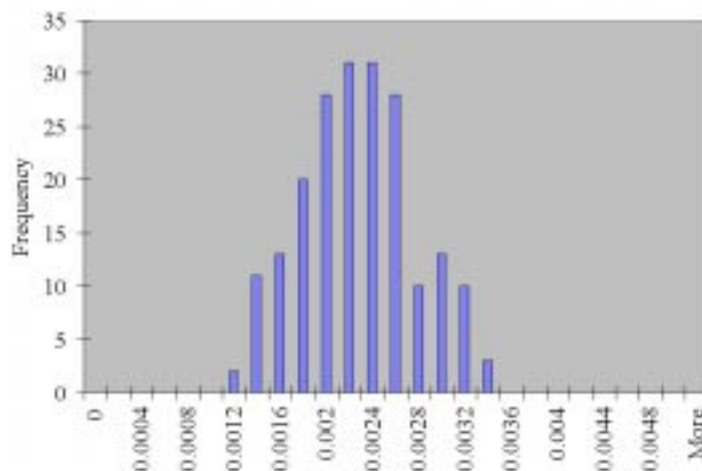
Histogram Distributions

Cage occupied zone average temperature (°C) distribution



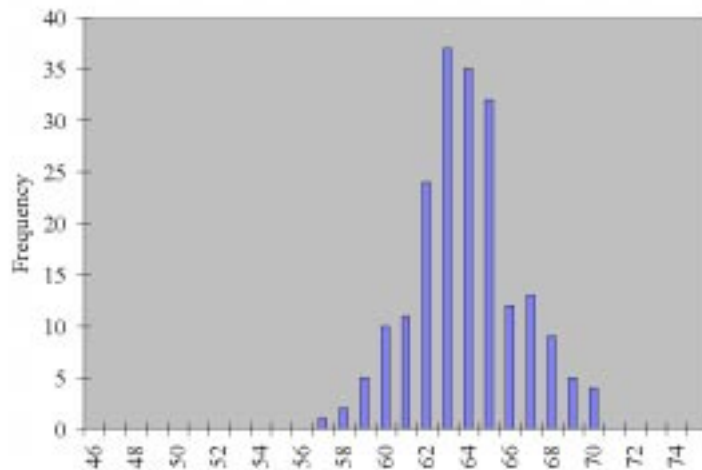
Cage occupied zone average contamination (kg/kg) distribution

Contamination conversion factors
(kg/kg → ppm)



Day	CO ₂	NH ₃
1	785000	412
2	785000	795
3	785000	1225
4	785000	1987
5	785000	3056
6	785000	4394
7	785000	6333
8	785000	8158
9	785000	10259
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 92

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	18.8	61%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Single	1050	21000 gr	neg 100cfm

Room

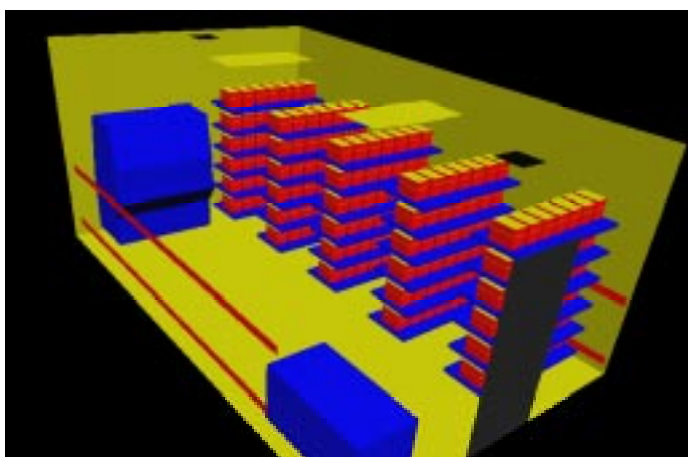
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.98	71.56	1631	62.80%
S.D.	0.31	0.56	314	2.29%
Max.	22.58	72.65	2404	69.73%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.86	1.65	2.55	4.02	6.06	8.65	12.33	16.04	20.39	24.75
Max.	1.26	2.43	3.75	5.92	8.93	12.74	18.18	23.63	30.06	36.48

Room Breathing Zone

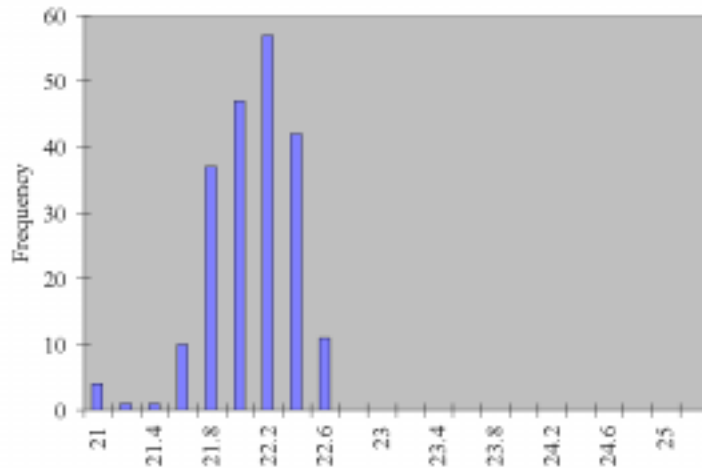
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.40	68.71	41	55.05%
S.D.	0.17	0.30	15	
Max.	20.95	69.70	151	

Room Breathing Zone NH₃ (ppm)

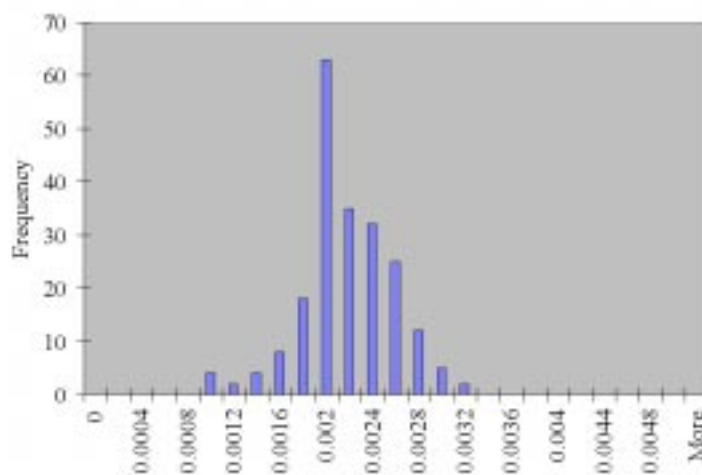
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.02	0.04	0.06	0.10	0.15	0.22	0.31	0.41	0.52	0.63
Max.	0.08	0.15	0.24	0.37	0.56	0.80	1.14	1.48	1.88	2.29

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



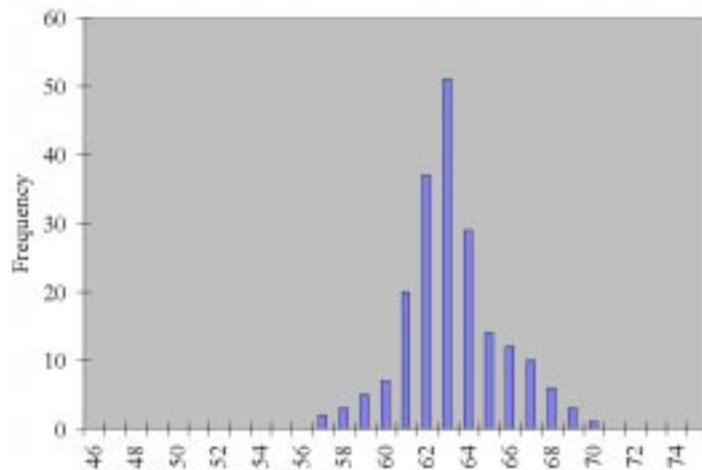
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	411
2	785000	795
3	785000	1225
4	785000	1933
5	785000	2916
6	785000	4161
7	785000	5936
8	785000	7716
9	785000	9814
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 93

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

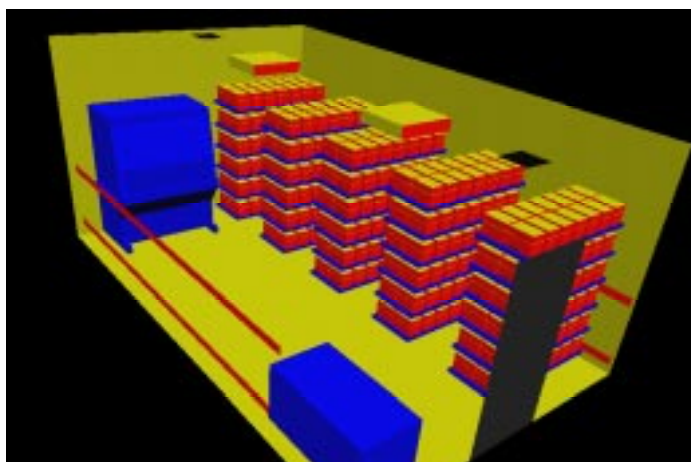
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.94	71.49	1822	65.04%
S.D.	0.37	0.66	402	2.43%
Max.	22.66	72.79	2780	69.72%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.96	1.84	2.84	4.97	8.02	11.74	17.32	21.85	26.75	30.18
Max.	1.47	2.81	4.34	7.58	12.24	17.91	26.44	33.35	40.83	46.07

Room Breathing Zone

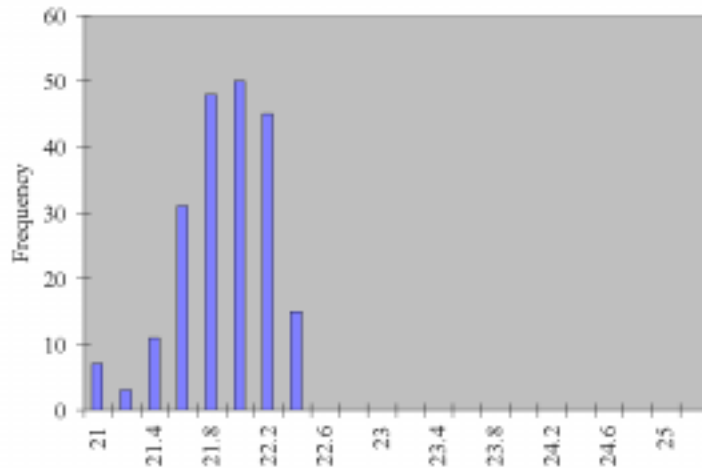
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.26	68.47	86	55.93%
S.D.	0.52	0.94	399	
Max.	30.00	86.00	361	

Room Breathing Zone NH₃ (ppm)

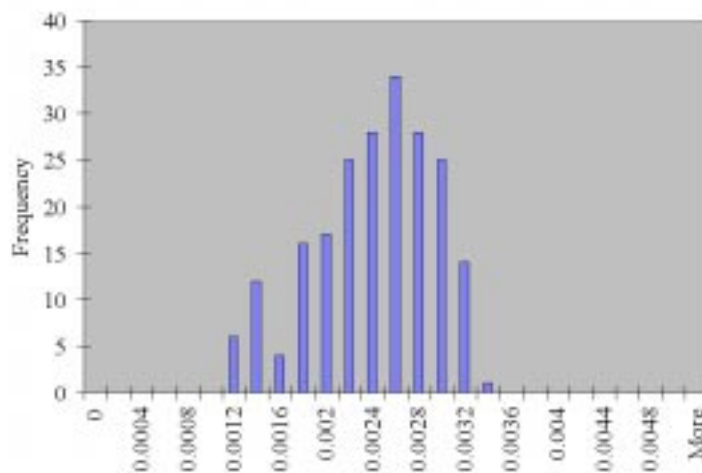
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.05	0.09	0.13	0.24	0.38	0.56	0.82	1.04	1.27	1.43
Max.	0.19	0.37	0.56	0.98	1.59	2.33	3.43	4.33	5.30	5.98

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



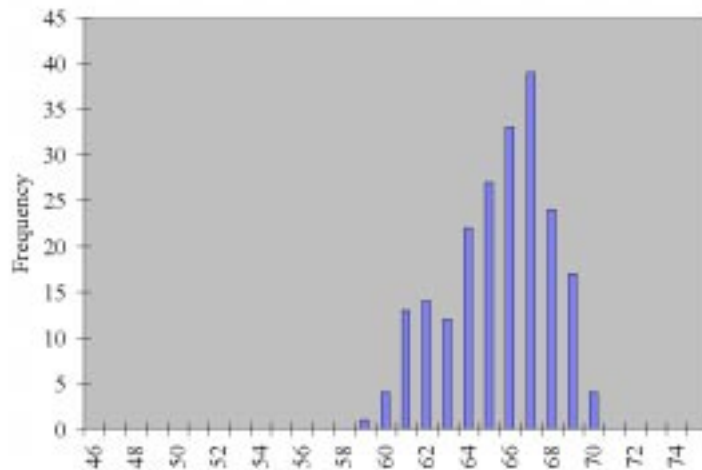
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	415
2	785000	795
3	785000	1225
4	785000	2141
5	785000	3457
6	785000	5058
7	785000	7466
8	785000	9418
9	785000	11529
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 94

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

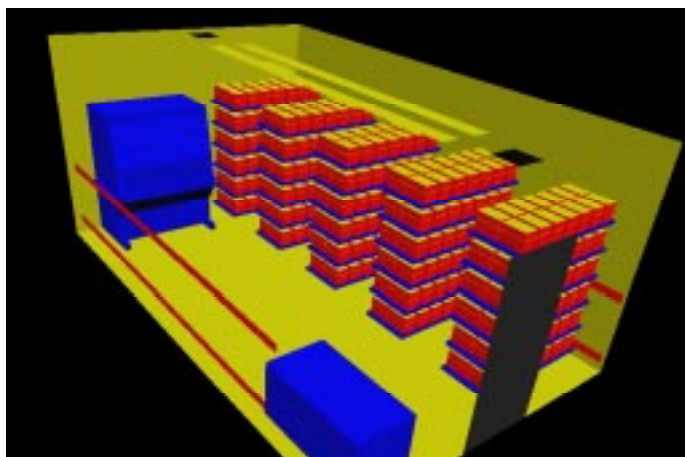
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.85	71.34	1757	64.38%
S.D.	0.39	0.71	395	2.10%
Max.	22.72	72.89	2734	69.23%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.93	1.78	2.74	4.66	7.38	10.73	15.71	19.97	24.68	28.40
Max.	1.44	2.77	4.27	7.24	11.49	16.70	24.44	31.06	38.40	44.18

Room Breathing Zone

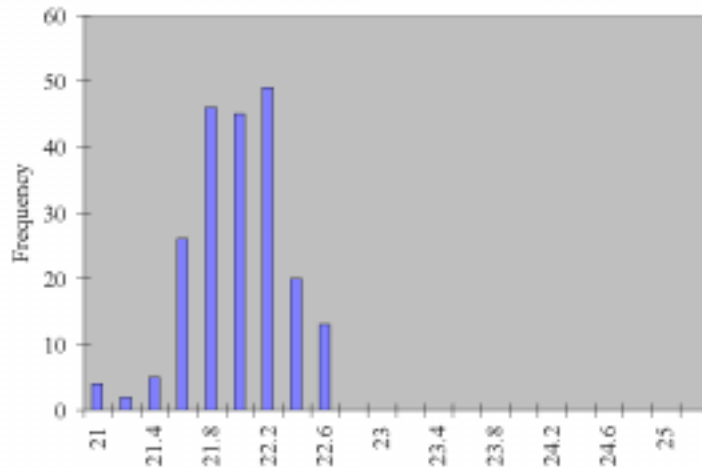
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.23	68.41	117	56.34%
S.D.	0.26	0.46	36	
Max.	20.69	69.24	328	

Room Breathing Zone NH₃ (ppm)

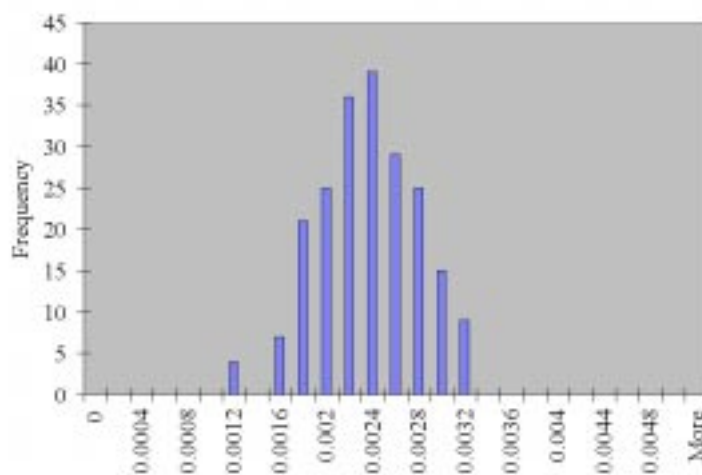
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.06	0.12	0.18	0.31	0.49	0.71	1.04	1.33	1.64	1.89
Max.	0.17	0.33	0.51	0.87	1.38	2.01	2.94	3.73	4.61	5.31

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



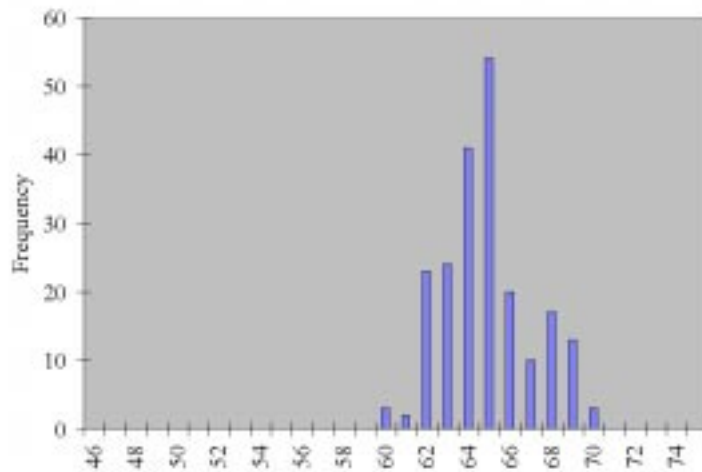
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	414
2	785000	795
3	785000	1225
4	785000	2080
5	785000	3299
6	785000	4795
7	785000	7017
8	785000	8919
9	785000	11026
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 95

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

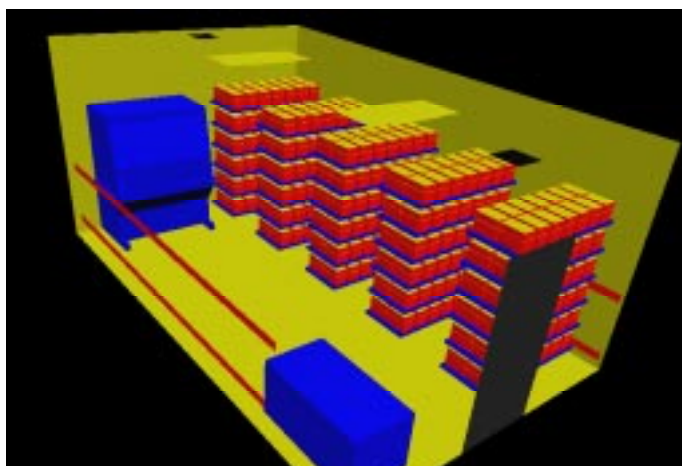
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.94	71.49	1822	64.10%
S.D.	0.37	0.66	402	2.75%
Max.	22.66	72.79	2780	70.20%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.96	1.84	2.84	4.77	7.50	10.87	15.84	20.21	25.09	29.12
Max.	1.47	2.81	4.34	7.28	11.44	16.59	24.18	30.84	38.30	44.45

Room Breathing Zone

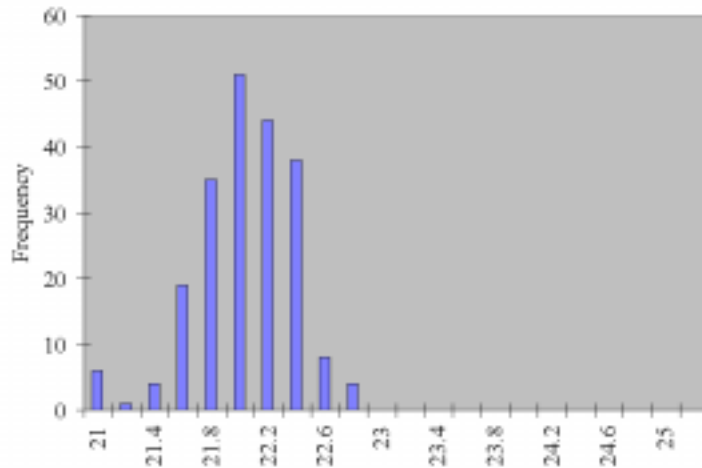
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.23	68.42	69	55.88%
S.D.	0.25	0.45	34	
Max.	20.79	69.42	281	

Room Breathing Zone NH₃ (ppm)

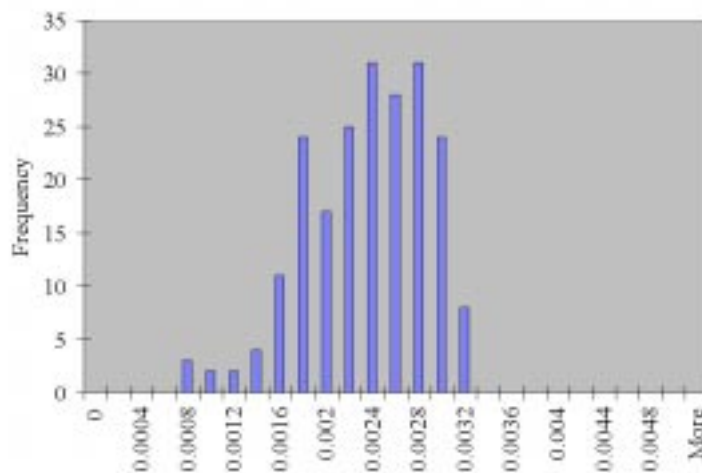
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.04	0.07	0.11	0.18	0.29	0.41	0.60	0.77	0.96	1.11
Max.	0.15	0.28	0.44	0.74	1.16	1.68	2.44	3.12	3.87	4.49

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



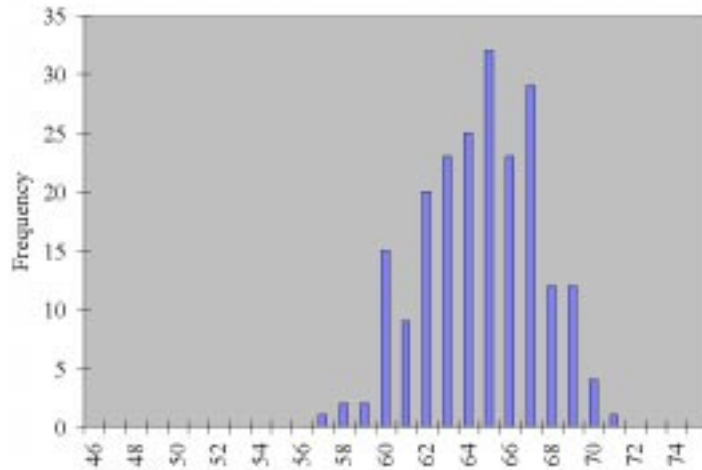
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	414
2	785000	795
3	785000	1225
4	785000	2054
5	785000	3231
6	785000	4684
7	785000	6827
8	785000	8708
9	785000	10814
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 96

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

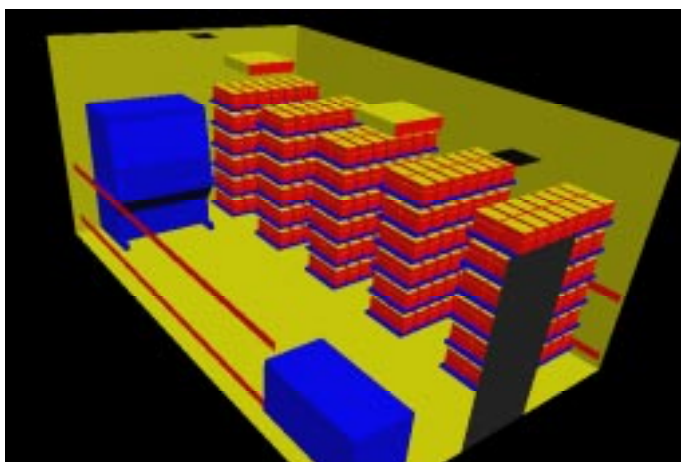
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.76	71.17	1957	65.79%
S.D.	0.34	0.61	459	2.90%
Max.	22.32	72.17	2763	71.27%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.04	1.98	3.05	5.51	9.06	13.35	19.87	24.88	30.15	33.32
Max.	1.47	2.80	4.31	7.78	12.80	18.85	28.06	35.12	42.57	47.05

Room Breathing Zone

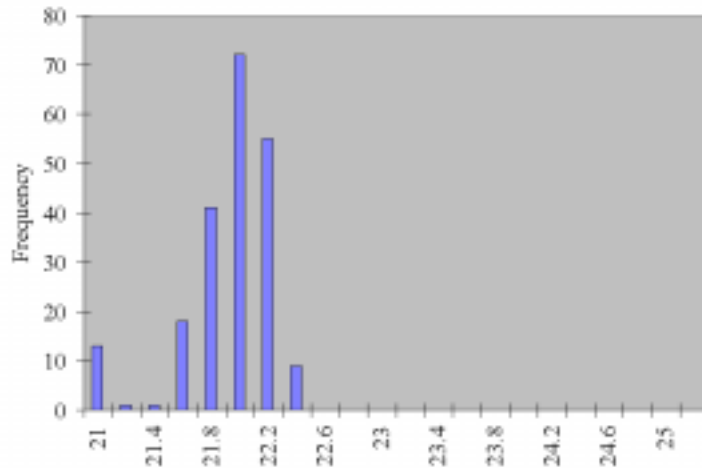
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.01	68.02	100	56.95%
S.D.	0.27	0.48	41	
Max.	20.70	69.26	280	

Room Breathing Zone NH₃ (ppm)

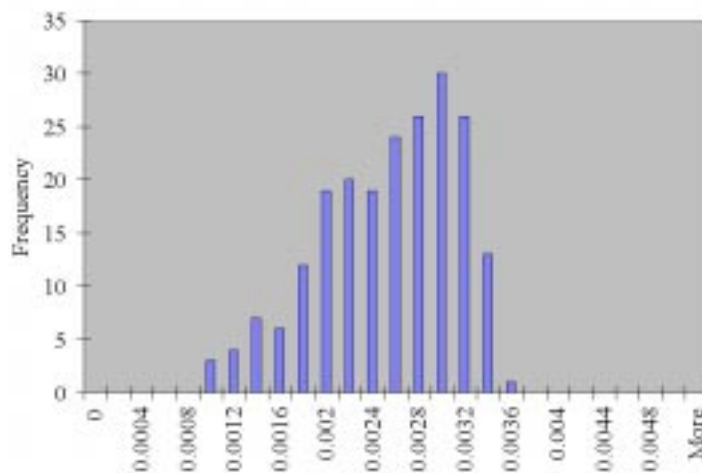
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.05	0.10	0.16	0.28	0.46	0.68	1.01	1.27	1.54	1.70
Max.	0.15	0.28	0.44	0.79	1.30	1.91	2.85	3.56	4.32	4.77

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



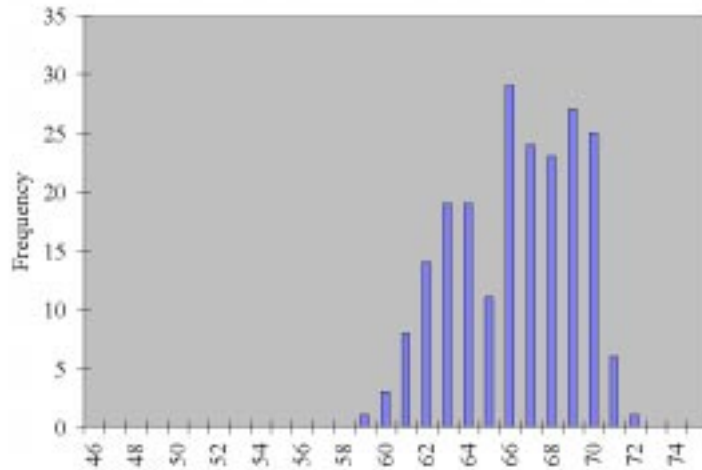
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	417
2	785000	795
3	785000	1225
4	785000	2210
5	785000	3636
6	785000	5355
7	785000	7972
8	785000	9981
9	785000	12097
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 97

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Slot	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

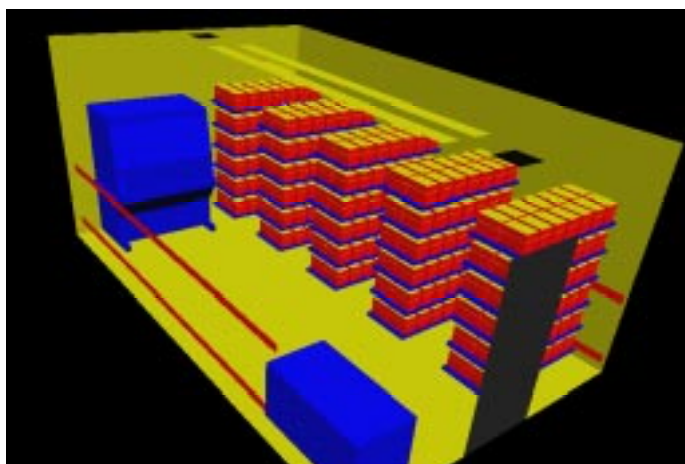
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.65	70.97	1725	64.22%
S.D.	0.32	0.58	427	2.16%
Max.	22.29	72.12	2885	69.99%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.91	1.75	2.69	4.54	7.16	10.39	15.18	19.33	23.96	27.70
Max.	1.52	2.92	4.50	7.59	11.98	17.39	25.38	32.33	40.07	46.34

Room Breathing Zone

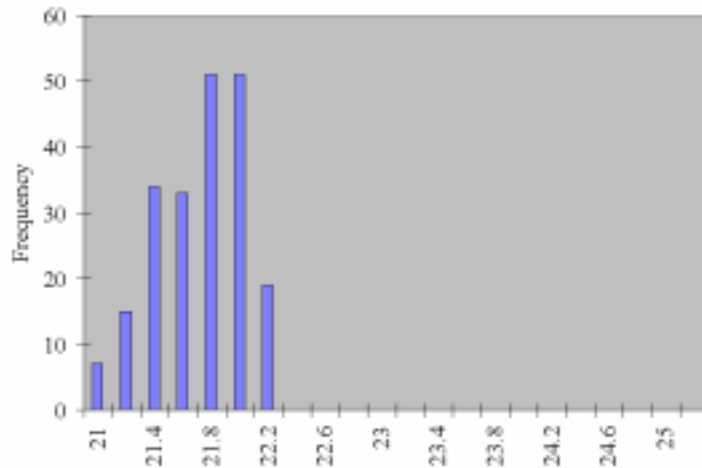
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	20.02	68.03	111	57.04%
S.D.	0.25	0.45	29	
Max.	20.78	69.40	294	

Room Breathing Zone NH3 (ppm)

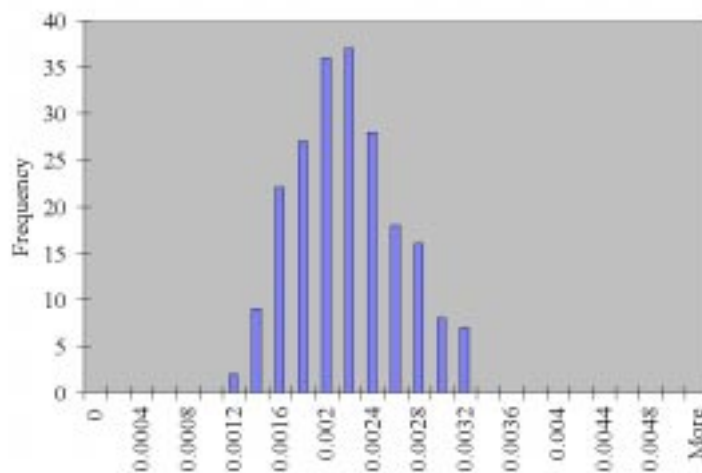
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.06	0.11	0.17	0.29	0.46	0.67	0.98	1.25	1.54	1.79
Max.	0.15	0.30	0.46	0.77	1.22	1.77	2.59	3.29	4.08	4.72

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



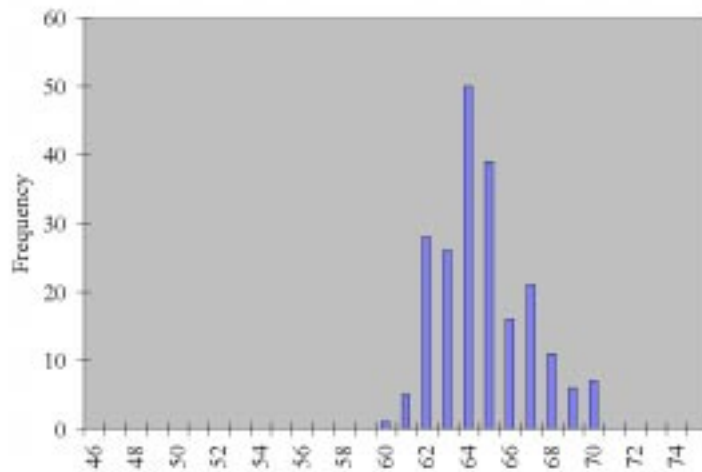
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	414
2	785000	795
3	785000	1225
4	785000	2065
5	785000	3259
6	785000	4730
7	785000	6907
8	785000	8796
9	785000	10902
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 98

Description

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low ind	17.5	66%	Ceiling	22	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp all 5 on 1 wall	Double	2100	42000 gr	neg 100cfm

Room

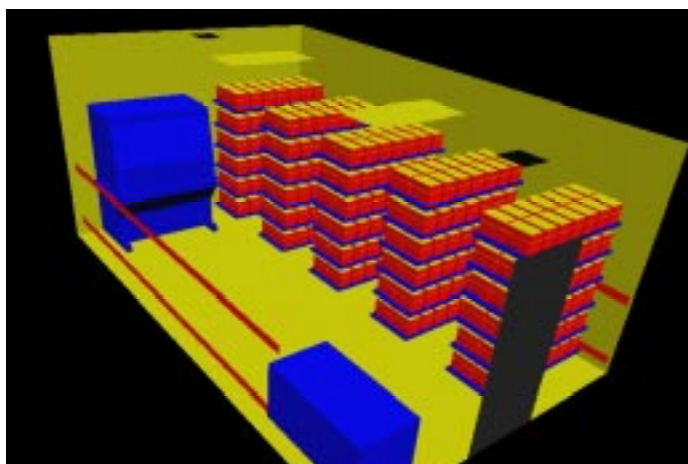
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	21.70	71.07	1955	65.78%
S.D.	0.30	0.54	428	3.05%
Max.	22.30	72.13	2712	73.07%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.04	1.98	3.05	5.50	9.05	13.33	19.85	24.85	30.12	33.29
Max.	1.44	2.74	4.23	7.64	12.56	18.50	27.54	34.48	41.79	46.19

Room Breathing Zone

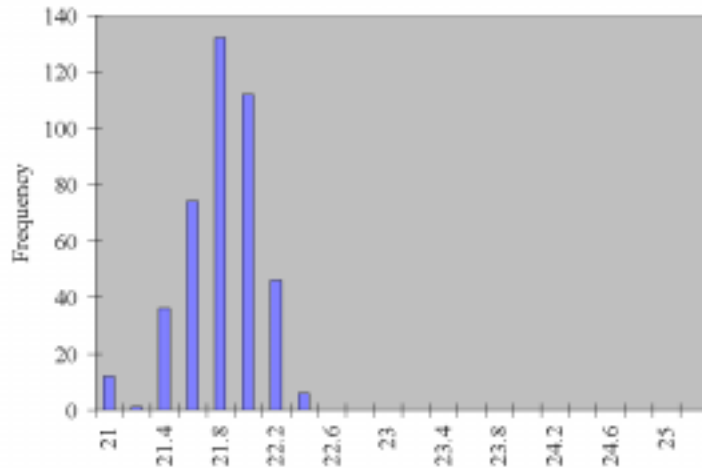
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	19.99	67.98	83	56.88%
S.D.	0.20	0.35	47	
Max.	20.65	69.17	334	

Room Breathing Zone NH₃ (ppm)

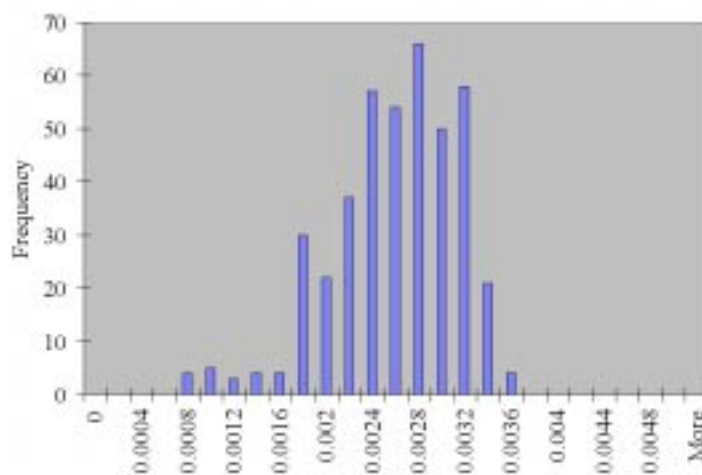
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.04	0.08	0.13	0.23	0.39	0.57	0.85	1.06	1.29	1.42
Max.	0.18	0.34	0.52	0.94	1.54	2.28	3.39	4.24	5.14	5.68

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



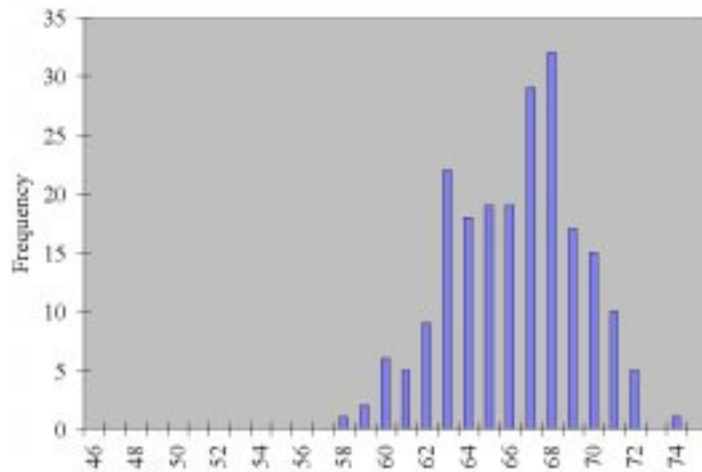
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	417
2	785000	795
3	785000	1225
4	785000	2210
5	785000	3636
6	785000	5355
7	785000	7971
8	785000	9979
9	785000	12096
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 99**Description**

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	22	49%	Ceiling	26	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

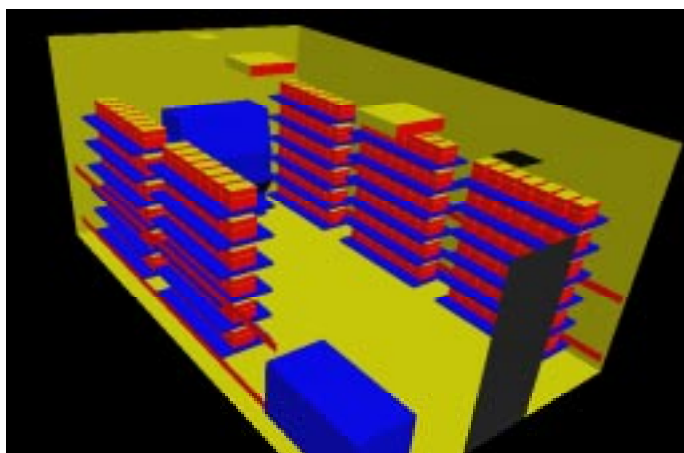
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO₂	RH
	°C	°F	(ppm)	
Mean	24.78	76.60	1984	58.69%
S.D.	0.32	0.58	357	1.55%
Max.	25.73	78.32	2959	61.50%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.03	2.01	3.10	4.46	6.28	8.70	11.91	16.07	21.34	27.89
Max.	1.54	3.00	4.62	6.66	9.36	12.98	17.76	23.96	31.82	41.60

Room Breathing Zone

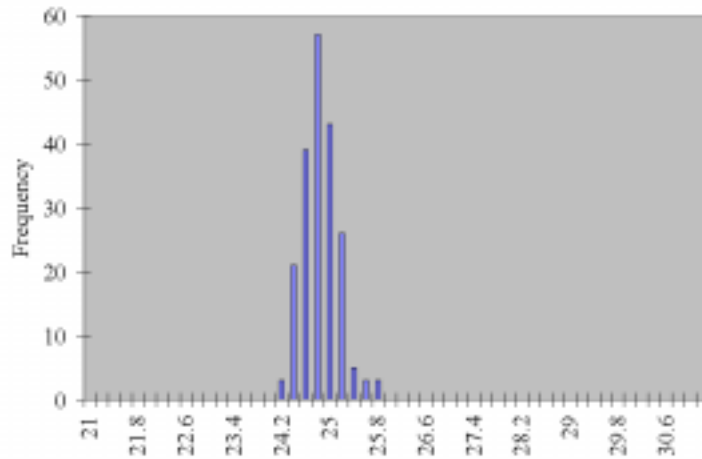
	Temperature		CO₂	RH
	°C	°F	(ppm)	
Mean	23.86	74.94	27	44.18%
S.D.	0.41	0.74	12	
Max.	24.70	76.46	123	

Room Breathing Zone NH₃ (ppm)

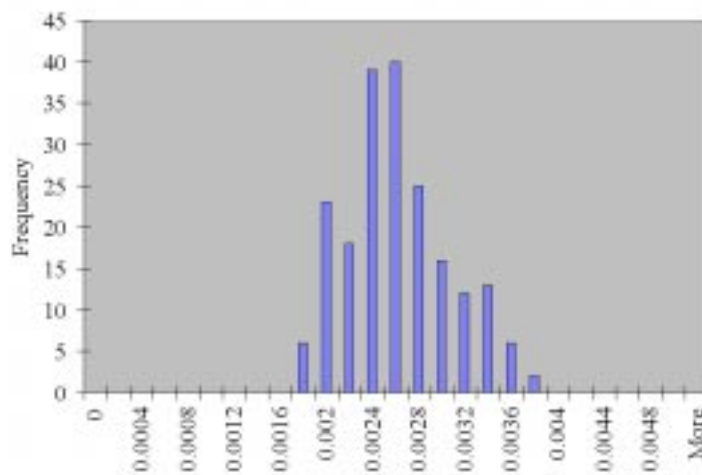
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.01	0.03	0.04	0.06	0.09	0.12	0.16	0.22	0.29	0.38
Max.	0.06	0.12	0.19	0.28	0.39	0.54	0.74	1.00	1.33	1.73

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



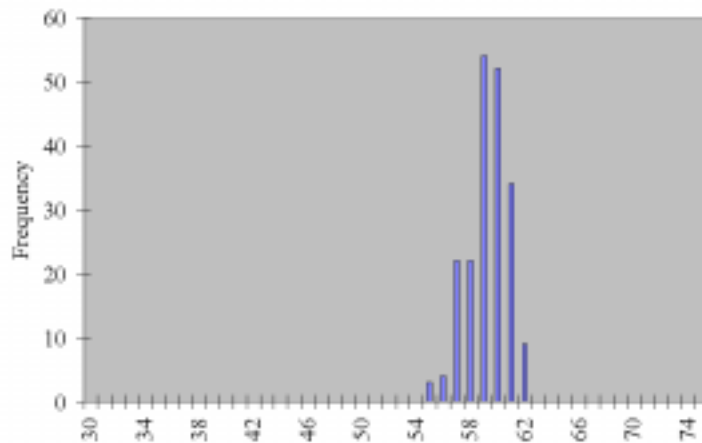
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 100**Description**

Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Radial	22	49%	Low	25	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON	On wall	Single	1050	21000 gr	neg 100cfm

Room

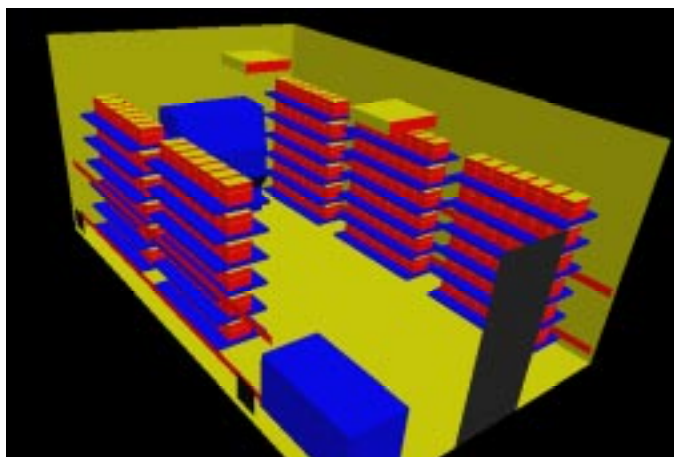
ACH

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Cage

Condition

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	25.43	77.77	1730	55.39%
S.D.	0.47	0.85	428	1.89%
Max.	26.84	80.30	3305	60.49%

Cage Occupied Zone NH₃ (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	0.90	1.75	2.70	3.89	5.47	7.59	10.38	14.01	18.61	24.32
Max.	1.72	3.35	5.16	7.43	10.46	14.50	19.84	26.77	35.55	46.47

Room Breathing Zone

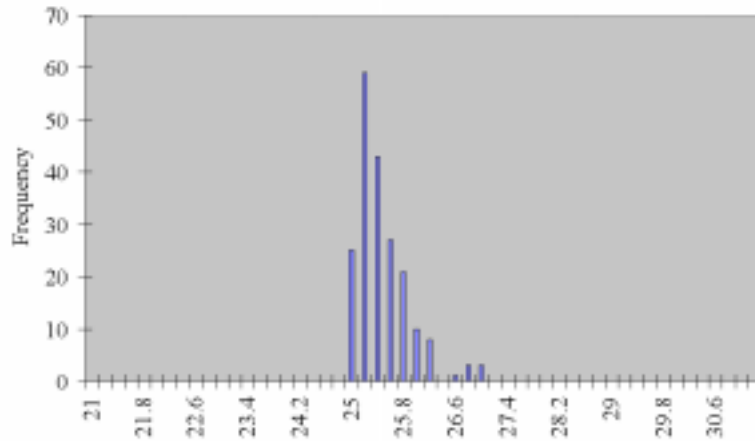
	Temperature		CO ₂	RH
	°C	°F	(ppm)	
Mean	24.82	76.67	40	41.72%
S.D.	0.33	0.59	20	
Max.	25.82	78.47	192	

Room Breathing Zone NH₃ (ppm)

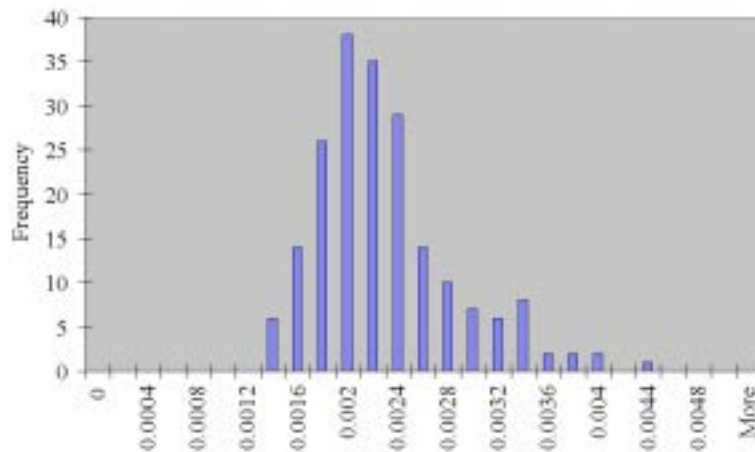
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.02	0.04	0.06	0.09	0.13	0.18	0.24	0.32	0.43	0.56
Max.	0.10	0.19	0.30	0.43	0.61	0.84	1.16	1.56	2.07	2.71

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



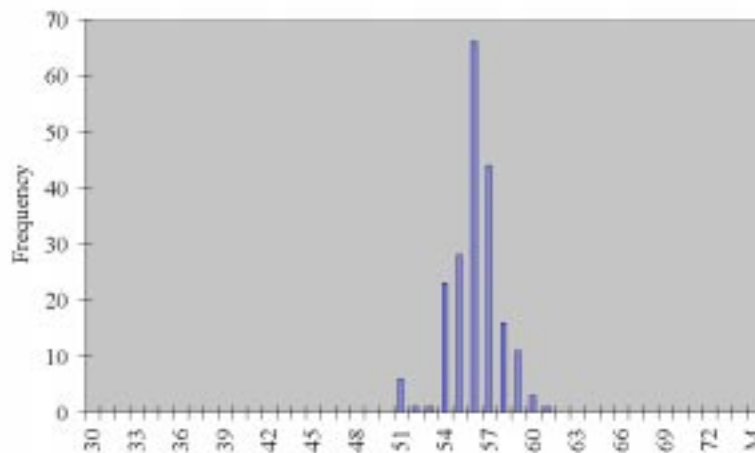
Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution



Casename

Case 101**Description**

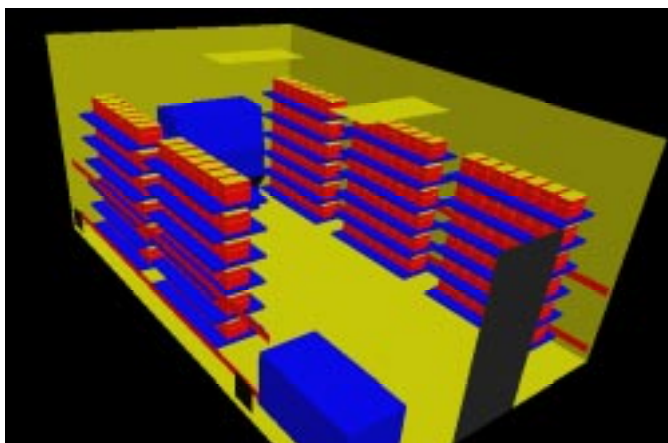
Supply Configuration	Supply Discharge Temperature (°C)	Supply Discharge RH	Exhaust Configuration	Exhaust Temperature (°C)	Exhaust RH
Low Ind	22	49%	Low	25	50%
Change Station	Rack Orientation	Rack Density	Number of Mice in Room	Total mass of Mice in Room	Room Pressurisation
ON alt design	Perp	Double	1050	21000 gr	neg 100cfm

Room**ACH**

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Cage**Condition**

Top On

**Analysis Results****Cage Occupied Zone**

	Temperature		CO₂	RH
	°C	°F	(ppm)	
Mean	26.82	80.27	2400	55.39%
S.D.	0.69	1.23	530	1.89%
Max.	28.34	83.02	3522	60.49%

Cage Occupied Zone NH3 (ppm)

Day	1	2	3	4	5	6	7	8	9	10
Mean	1.25	2.43	3.74	5.40	7.59	10.53	14.40	19.43	25.81	33.74
Max.	1.83	3.56	5.50	7.92	11.14	15.45	21.14	28.51	37.87	49.50

Room Breathing Zone

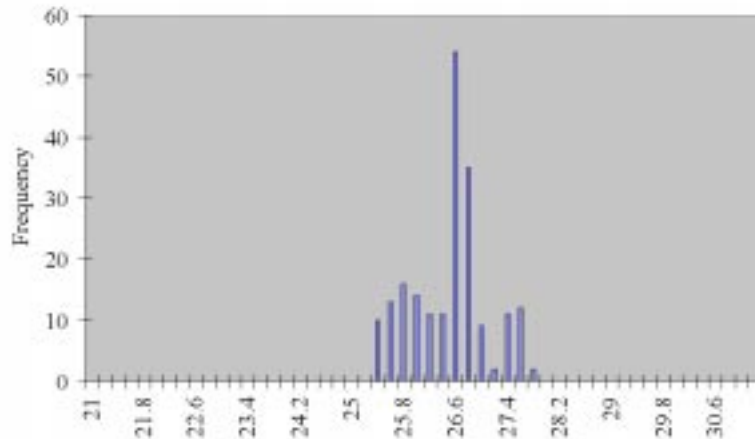
	Temperature		CO₂	RH
	°C	°F	(ppm)	
Mean	26.24	79.22	284	39.78%
S.D.	1.52	2.74	138	
Max.	28.22	82.79	793	

Room Breathing Zone NH3 (ppm)

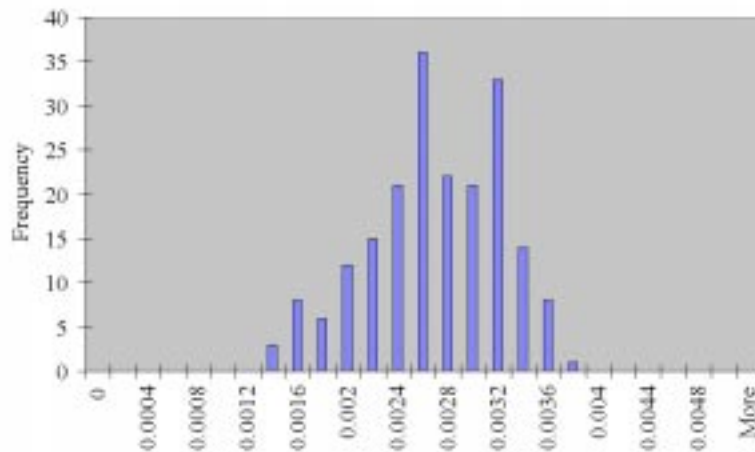
Day	1	2	3	4	5	6	7	8	9	10
Mean	0.15	0.29	0.44	0.64	0.90	1.25	1.71	2.30	3.06	4.00
Max.	0.41	0.80	1.24	1.78	2.51	3.48	4.76	6.42	8.53	11.15

Histogram Distributions

Cage occupied zone average temperature (°C) distribution



Cage occupied zone average contamination (kg/kg) distribution



Contamination conversion factors
(kg/kg → ppm)

Day	CO ₂	NH ₃
1	785000	408
2	785000	795
3	785000	1225
4	785000	1766
5	785000	2483
6	785000	3443
7	785000	4712
8	785000	6356
9	785000	8442
10	785000	11384

Cage occupied zone average relative humidity (%) distribution

