

eTable 1. Percentile values for pollutant cutoffs

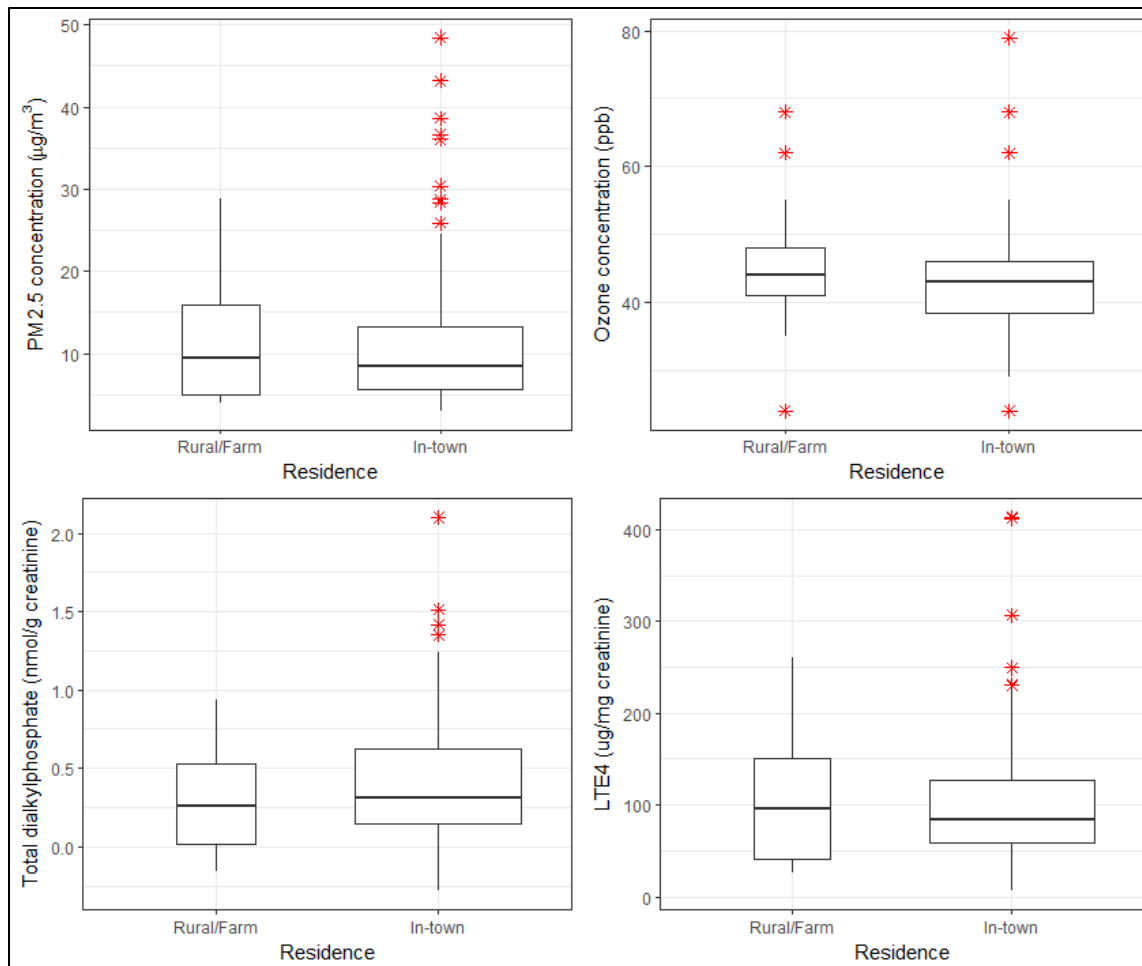
Pollutant	Percentile	Value
PM_{2.5} ($\mu\text{g}/\text{m}^3$)	25	5.30
	50	8.73
	75	13.50
O₃ (ppb)	25	38.00
	50	43.00
	75	48.00
OP (ng/mg creatinine)	25	91.98
	50	142.85
	75	289.25

eTable 2. Analysis varying high-low cutpoints for joint exposure category creation

Combinations	PM	Ozone	OP	Category (Reference: Low)	Estimate	U95	L95	QIC
	Percentiles							
c1	25	25	25	Mild	39.38	14.13	64.63	142.29
	25	25	25	Moderate	69.17	46.91	91.43	
	25	25	25	High	56.59	35.90	77.28	
c2	25	25	50	Mild	-1.31	-60.82	58.20	144.08
	25	25	50	Moderate	23.51	-31.35	78.37	
	25	25	50	High	30.54	-15.83	76.91	
c3	25	25	75	Mild	17.89	-6.88	42.67	142.98
	25	25	75	Moderate	39.33	20.27	58.39	
	25	25	75	High	51.97	14.95	88.99	
c4	25	50	25	Mild	39.73	17.64	61.82	140.93
	25	50	25	Moderate	68.11	45.07	91.15	
	25	50	25	High	68.01	48.05	87.97	
c5	25	50	50	Mild	4.72	-48.55	58.00	144.20
	25	50	50	Moderate	36.81	-12.82	86.43	
	25	50	50	High	49.01	8.11	89.91	
c6	25	50	75	Mild	15.84	-5.74	37.42	142.41
	25	50	75	Moderate	49.78	23.56	76.00	
	25	50	75	High	64.16	39.20	89.12	
c7	25	75	25	Mild	39.17	15.16	63.18	142.48
	25	75	25	Moderate	26.85	6.53	47.16	
	25	75	25	High	26.85	0.41	53.30	
c8	25	75	50	Mild	20.39	-12.68	53.46	142.18
	25	75	50	Moderate	24.12	0.62	47.62	
	25	75	50	High	38.01	-13.81	89.83	
c9	25	75	75	Mild	20.50	2.17	38.82	142.98
	25	75	75	Moderate	26.96	9.27	44.64	
	25	75	75	High	45.48	-19.49	110.45	
c10	50	25	25	Mild	18.22	-21.04	57.48	143.62
	50	25	25	Moderate	48.98	19.43	78.53	
	50	25	25	High	40.57	2.71	78.44	
c11	50	25	50	Mild	21.71	-10.24	53.67	143.21
	50	25	50	Moderate	41.87	9.17	74.56	
	50	25	50	High	54.47	23.63	85.30	
c12	50	25	75	Mild	34.64	18.11	51.18	142.16
	50	25	75	Moderate	45.59	18.56	72.62	
	50	25	75	High	67.62	37.61	97.63	
c13	50	50	25	Mild	16.96	-9.96	43.88	144.36
	50	50	25	Moderate	61.91	28.04	95.78	
	50	50	25	High	47.29	17.60	76.99	
c14	50	50	50	Mild	27.51	3.55	51.46	145.24
	50	50	50	Moderate	62.54	18.09	106.99	
	50	50	50	High	63.58	32.43	94.72	
c15	50	50	75	Mild	33.46	12.59	54.32	144.90

	50	50	75	Moderate	53.96	16.06	91.85	
	50	50	75	High	68.20	40.19	96.21	
c16	50	75	25	Mild	32.70	15.09	50.31	141.73
	50	75	25	Moderate	32.72	12.63	52.81	
	50	75	25	High	26.63	-0.36	53.61	
c17	50	75	50	Mild	36.57	13.72	59.42	142.98
	50	75	50	Moderate	35.04	14.47	55.62	
	50	75	50	High	46.64	4.49	88.80	
c18	50	75	75	Mild	31.68	12.77	50.59	143.29
	50	75	75	Moderate	28.02	13.16	42.88	
	50	75	75	High	46.85	-19.19	112.90	
c19	75	25	25	Mild	11.65	-14.05	37.35	141.46
	75	25	25	Moderate	21.08	-7.60	49.75	
	75	25	25	High	17.57	-23.14	58.28	
c20	75	25	50	Mild	12.81	-15.37	40.98	142.11
	75	25	50	Moderate	28.69	3.37	54.01	
	75	25	50	High	33.79	9.78	57.79	
c21	75	25	75	Mild	23.26	7.53	38.99	141.60
	75	25	75	Moderate	37.29	12.82	61.76	
	75	25	75	High	45.44	11.91	78.98	
c22	75	50	25	Mild	8.68	-16.19	33.55	143.75
	75	50	25	Moderate	35.72	7.37	64.08	
	75	50	25	High	21.63	-12.82	56.08	
c23	75	50	50	Mild	25.05	1.42	48.68	143.30
	75	50	50	Moderate	51.28	14.50	88.06	
	75	50	50	High	42.47	18.73	66.21	
c24	75	50	75	Mild	29.02	8.54	49.50	143.63
	75	50	75	Moderate	52.65	19.42	85.89	
	75	50	75	High	45.54	17.52	73.55	
c25	75	75	25	Mild	0.56	-42.15	43.26	144.67
	75	75	25	Moderate	6.97	-26.21	40.15	
	75	75	25	High	-25.08	-73.74	23.58	
c26	75	75	50	Mild	14.95	-16.08	45.97	142.84
	75	75	50	Moderate	24.32	-0.43	49.08	
	75	75	50	High	-19.71	-49.42	10.00	
c27	75	75	75	Mild	9.49	-18.84	37.82	143.29
	75	75	75	Moderate	34.15	8.98	59.32	
	75	75	75	High	-57.90	-99.03	-16.77	

- PM_{2.5} indicates 24-hour-average exposure to particulate matter < 2.5 µm in diameter; Ozone, 8-hour maximum concentration of ozone; OP, urinary measure of metabolite of organophosphate exposure, total dialkylphosphate; L95, upper 95% confidence interval limit; U95, upper 95% confidence interval limit; QIC, quasi-information criterion, a measure of model performance.



eFigure1. Distribution of exposure and outcome data by study participants' residence. Residence classification was based on self-reported proximity to farms.

PM_{2.5} indicates 24-hour-average exposure to particulate matter < 2.5 µm in diameter. LTE4 represents creatinine-adjusted urinary leukotriene E4 concentration.