

## Supporting Information

For

# Particle Size Distribution and Polycyclic Aromatic Hydrocarbons Emissions from Agricultural Crop Residue Burning

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Pages: 2

Table: 1

Table S1 Emissions of total, particulate and gaseous PAHs from burned rice, wheat and corn straws in China

province	PAHs total emissions(kg)			Particulate phase PAHs emissions(kg)			Gaseous phase PAHs emissions(kg)		
	rice	wheat	corn	rice	wheat	corn	rice	wheat	corn
Beijing	33.03	344.52	1114.12	10.25	181.06	592.48	22.77	163.46	521.64
Tianjin	184.79	672.02	2242.42	57.37	353.18	1192.50	127.42	318.84	1049.92
Hebei	1342.96	19066.58	37145.52	416.96	10020.39	19753.68	926.00	9046.19	17391.83
Shanxi	40.55	4790.46	16502.47	12.59	2517.61	8775.88	27.96	2272.84	7726.59
Neimenggu	1471.83	1477.67	30749.02	456.97	776.58	16352.08	1014.86	701.08	14396.94
Liaoning	11493.41	116.02	31389.12	3568.43	60.97	16692.48	7924.98	55.04	14696.64
Jilin	10407.52	112.28	55889.38	3231.28	59.01	29721.52	7176.23	53.27	26167.86
Heilongjiang	27565.88	742.95	28749.14	8558.54	390.45	15288.56	19007.33	352.49	13460.58
Shanghai	2688.55	138.29	108.99	834.73	72.68	57.96	1853.82	65.61	51.03
Jiangsu	45942.26	11391.52	6824.85	14263.97	5986.78	3629.40	31678.28	5404.73	3195.45
Zhejiang	21158.48	390.00	743.90	6569.20	204.96	395.60	14589.27	185.03	348.30
Anhui	31520.21	12029.48	9016.76	9786.27	6322.06	4795.04	21733.94	5707.42	4221.72
Fujian	17120.41	51.83	402.05	5315.48	27.24	213.80	11804.93	24.59	188.24
Jiangxi	44499.86	54.08	216.94	13816.14	28.42	115.36	30683.71	25.66	101.57
Shandong	2547.58	29288.28	48821.29	790.96	15392.38	25962.76	1756.62	13895.90	22858.52
Henan	7855.36	42902.30	26514.32	2438.90	22547.19	14100.10	5416.45	20355.10	12414.22
Hubei	43870.24	3095.70	5795.50	13620.66	1626.93	3082.00	30249.57	1468.76	2713.50
Henan	67710.41	308.59	4447.83	21022.47	162.18	2365.32	46687.94	146.41	2082.51
Guangdong	38284.12	30.50	1838.29	11886.31	16.03	977.59	26397.81	14.47	860.70
Guangxi	39337.31	32.56	5525.62	12213.29	17.11	2938.48	27124.01	15.44	2587.14
Hainan	4690.25	0	212.44	1456.21	0	112.97	3234.04	0	99.46
Chongqing	16260.20	1568.24	7162.20	5048.40	824.18	3808.80	11211.79	744.06	3353.40
Sichuan	48142.49	7975.99	17898.58	14947.0	4191.76	9518.32	33195.39	3784.22	8380.26
Guizhou	15022.55	1396.07	11068.54	4664.14	733.70	5886.16	10358.40	662.37	5182.38
Yunnan	20798.37	2327.11	13837.57	6457.39	1223.00	7358.71	14340.97	1104.10	6478.86
Xizang	18.31	509.58	56.05	5.68	267.81	29.80	12.62	241.77	26.24
Shananxi	2469.41	7401.46	12912.72	766.69	3889.82	6866.88	1702.72	3511.64	6045.84
Gansu	117.09	5098.87	8457.27	36.35	2679.69	4497.51	80.73	2419.17	3959.76
Qinghai	0	688.68	0	0	361.93	0	0	326.74	0
Ningxia	1211.48	1414.98	4149.57	376.13	743.63	2206.71	835.34	671.34	1942.86
Xinjiang	1659.25	6439.55	10979.96	515.15	3384.29	5839.05	1144.09	3055.26	5140.90
$\Sigma$ PAHs	525464.30	161856.30	400772.49	163144.15	85063.16	213127.56	362320.14	76793.13	187644.92