

Perceptions of air pollution from stubble burning and its health risks—a cross-sectional survey in Punjab, India

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Supplementary information

Figure S1	The proportion of each response for the question “How do you think about air pollution in Delhi?” and “How do you think about air pollution in Punjab?”
Figure S2	Proportion of the burned area for each district in 2020 and the count of hotspots for each district during October and November in 2019 in each district
Table S1	Sensitivity analysis: Odds ratios of individual factors on perception of air quality and its health risks with district fixed effects

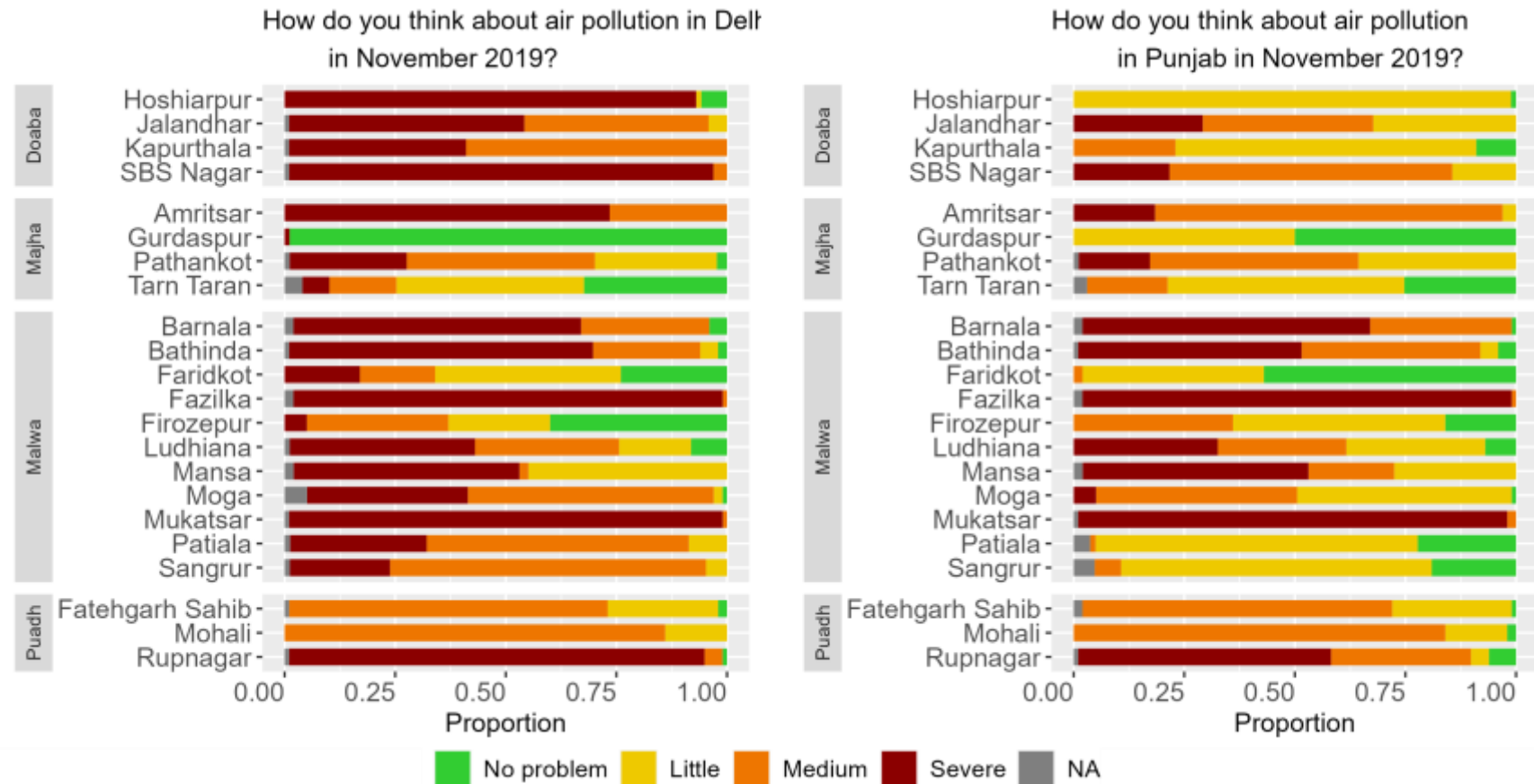


Figure S1. The proportion of each response for the question “How do you think about air pollution in Delhi?” (left) and “How do you think about air pollution in Punjab?” (right)

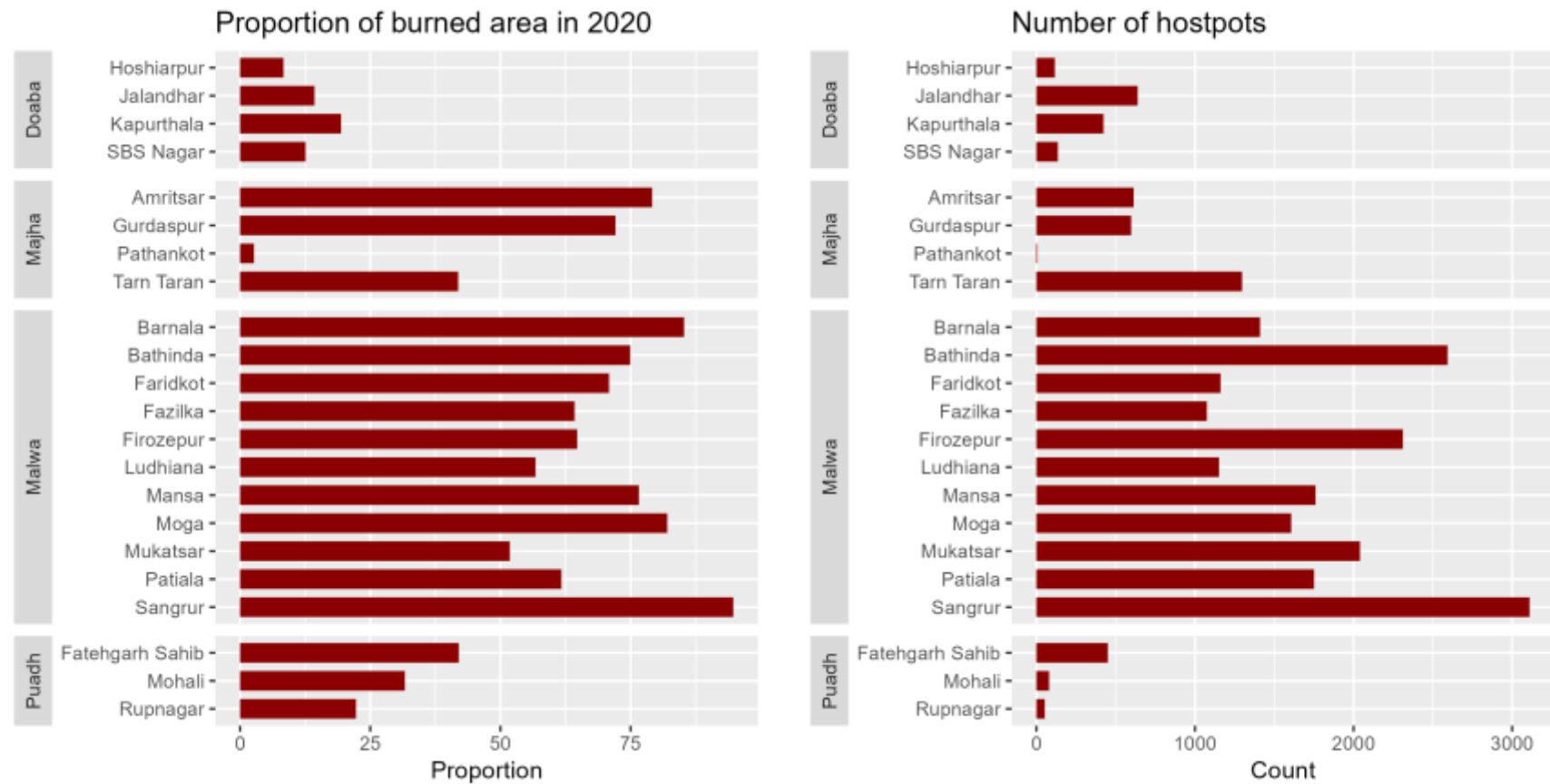


Figure S2. The proportion of the burnt area for each district in 2020 (left) and the fire detection counts for each district during October and November in 2019 (right) for each district

Table S1. Sensitivity analysis: Odds ratios of individual factors on perception of air quality and its health risks with district fixed effects

Explanatory variable	Perceived air pollution in Delhi “Severe” vs “No problem” / “Little” / “Medium”	Perceived air pollution in Punjab	Perceived health risk of smoke from stubble burning “Yes, very much” / “Yes a little” vs “No problem”	Attitude toward stubble burning “Big problem, and have to stop now” vs other responses
Individual-/household-level variables				
Age				
Less than 40 year (Reference)	1	1	1	1
40-59 year	1.49 (1.03, 2.15)*	1.76 (1.10, 2.82)*	1.46 (0.90, 2.38)	0.72 (0.51, 1.02)
60 year and over	1.41 (0.93, 2.15)	1.74 (1.03, 2.92)*	0.87 (0.49, 1.54)	0.78 (0.52, 1.18)
Educational status				
Primary (Reference)	1	1	1	1
Secondary/diploma	1.23 (0.91, 1.65)	0.76 (0.54, 1.08)	0.91 (0.60, 1.39)	1.21 (0.90, 1.62)
Graduate/above	1.30 (0.65, 2.56)	1.78 (0.79, 4.00)	0.89 (0.37, 2.14)	1.25 (0.67, 2.32)
Household members				
1 or 2 (Reference)	1	1	1	1
3 or 4	0.72 (0.38, 1.39)	1.51 (0.69, 3.29)	0.89 (0.36, 2.17)	0.74 (0.38, 1.43)
5 or 6	0.96 (0.50, 1.85)	1.29 (0.59, 2.85)	0.61 (0.24, 1.52)	0.58 (0.30, 1.12)
7 and over	0.78 (0.38, 1.58)	0.80 (0.34, 1.90)	0.63 (0.23, 1.69)	0.48 (0.24, 0.98)*
Household income				
-144940 (Reference)	1	1	1	1
144941-300000	0.78 (0.54, 1.14)	0.80 (0.53, 1.23)	1.32 (0.80, 2.20)	0.85 (0.59, 1.23)
300001-600000	0.69 (0.46, 1.03)	1.09 (0.68, 1.73)	1.15 (0.66, 2.00)	0.87 (0.59, 1.30)
600001-	0.89 (0.58, 1.36)	0.89 (0.53, 1.50)	0.83 (0.45, 1.53)	1.05 (0.70, 1.58)
Health condition of household				
Well (Reference)	1	1	1	1
Sick	0.82 (0.45, 1.48)	1.27 (0.62, 2.61)	38.89 (13.64, 110.92)*	2.13 (1.14, 4.01)*
Knowledge				
No (Reference)	1	1	1	1
Yes	2.00 (1.46, 2.75)*	1.28 (0.84, 1.94)	24.00 (15.06, 38.24)*	3.26 (2.33, 4.55)*

* P<0.05