

Supplementary data

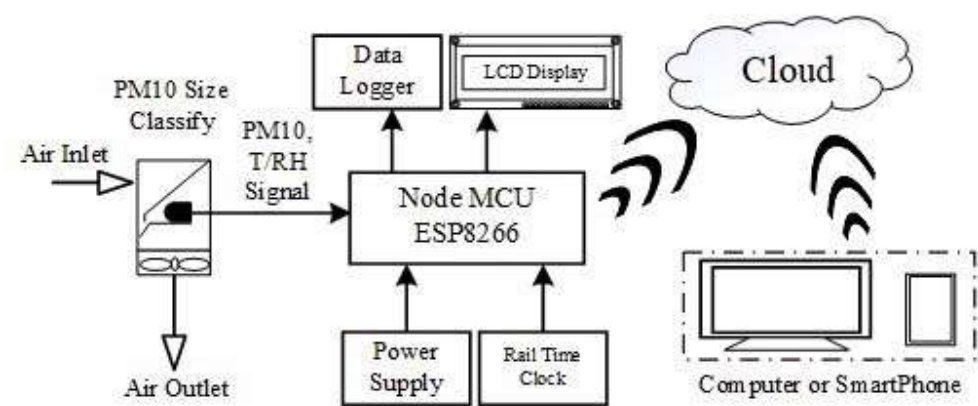


Figure S1. Operating Principle of DustBoy. Microcontroller unit; LCD liquid crystal display / RH&T Relative humidity & Temperature / RTC real time clock [27].

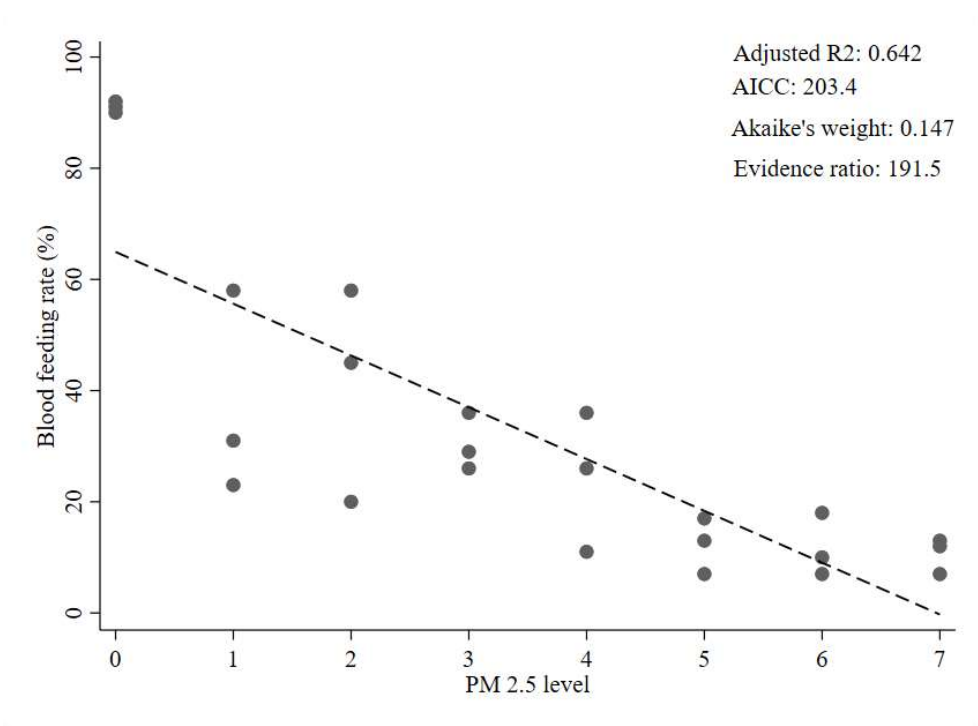


Figure S2. Linear model of the dose-response relationship between PM_{2.5} level and blood-feeding rate in female *Ae.aegypti* mosquitoes

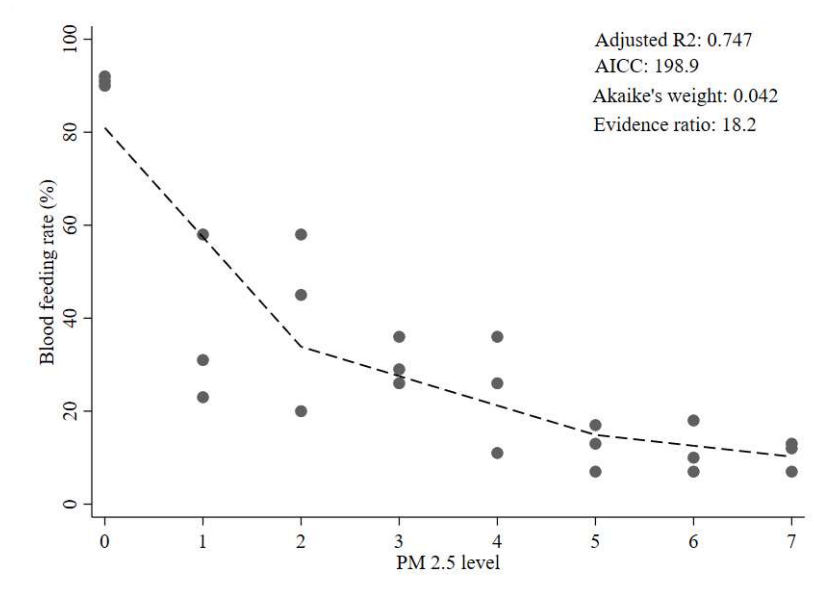


Figure S3. Three-segment piecewise linear of the dose-response relationship between PM_{2.5} level and blood-feeding rate in female *Ae. aegypti* mosquitoes

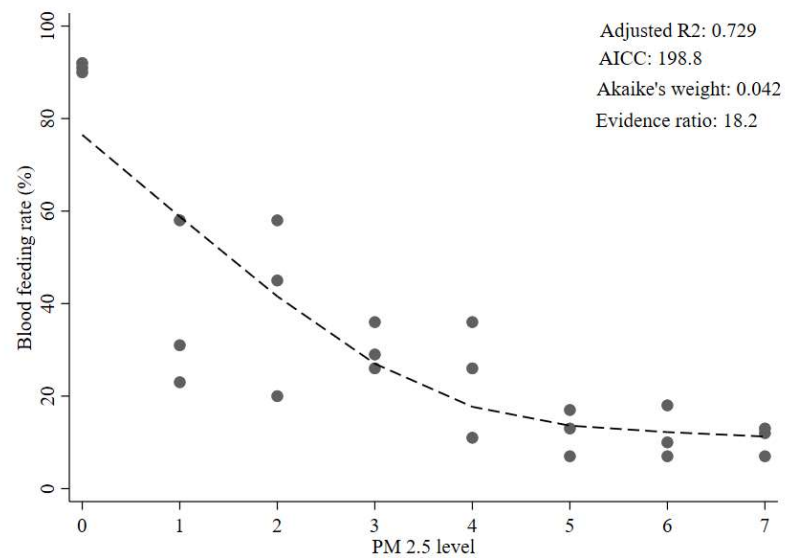


Figure S4. Three-knot restricted cubic spline model of the dose-response relationship between PM_{2.5} level and blood-feeding rate in female *Ae. aegypti* mosquitoes

Table S1. Trace metal concentrations on the PM_{2.5} filter paper

Metals	Concentration (mg/g)
Iron (Fe)	0.513 ± 0.112
Zinc (Zn)	0.087 ± 0.019
Copper (Cu)	0.015 ± 0.003
Manganese (Mn)	0.010 ± 0.002
Nickel (Ni)	0.015 ± 0.032
Chromium (Cr)	0.080 ± 0.017
Cadmium (Cd)	0.007 ± 0.002
Lead (Pb)	0.075±0.009

Notes:- Concentration is presented as mean ± standard deviation