Table 1: Models of infiltration

	Model description		Equation
1	Distributed Lag	Regression:	$PM^{in}_{ihdt} = \sum_{k=0}^{12} \alpha_k PM^{out}_{i,h-k,dt} + \gamma_i + \delta_h + \eta_d + \theta_t + \varepsilon_{ihdt}$
		Infiltration measure:	$\sum_{k=0}^{12} \alpha_k$
2	Lagged Dependent Variable	Regression:	$PM^{in}_{ihdt} = \alpha PM^{out}_{ihdt} + \beta PM^{in}_{i,h-1,dt} + \gamma_i + \delta_h + \eta_d + \theta_t + \varepsilon_{ihdt}$
		Infiltration measure:	$\alpha \cdot \left(\sum_{k=0}^{\infty} \beta^k\right)$
3	No Lags	Regression:	$PM^{in}_{ihdt} = \alpha PM^{out}_{ihdt} + \gamma_i + \delta_h + \eta_d + \theta_t + \varepsilon_{ihdt}$
		Infiltration measure:	α
4	All Lags	Regression:	$PM^{in}_{ihdt} = \sum_{k=0}^{12} \alpha_k PM^{out}_{i,h-k,dt} + \beta PM^{in}_{i,h-1,dt} + \gamma_i + \delta_h + \eta_d + \theta_t + \varepsilon_{ihdt}$
		Infiltration measure:	$\left(\sum_{k=0}^{12} \alpha_k\right) \cdot \left(\sum_{k=0}^{\infty} \beta^k\right)$