

## ***Interactive comment on “Impact of agricultural emission reductions on fine particulate matter and public health” by Andrea Pozzer et al.***

### **Anonymous Referee #2**

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I recommend this manuscript be published after minor reversion. (1) Please state if the ammonia reductions in this study are feasible, especially for different regions. (2) Section 3.2, the aerosol pH would be determined by aerosol water, which also depends on the secondary nitrate and sulfate concentrations, relative humidity etc. Further, rich or poor ammonia in different regions should have markedly different effects on aerosol pH. Please have some discussions on them. (3) The epidemiological studies did find the secondary inorganic aerosols could have negligible effects on human health, it is better the authors reword it, Line 12, Page13. The references: Mar TF et al., PM source apportionment and health effects. 3. Investigation of inter-method variations in associations between estimated source contributions of PM<sub>2.5</sub> and daily mortality in Phoenix, AZ. JOURNAL OF EXPOSURE SCIENCE AND ENVIRONMENTAL EPIDEMIOLOGY

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2006(16), 311–320.; Ito K et al. PM source apportionment and health effects: 2. An investigation of intermethod variability in associations between source-apportioned fine particle mass and daily mortality in Washington, DC. JOURNAL OF EXPOSURE SCIENCE AND ENVIRONMENTAL EPIDEMIOLOGY 2006(16), 300–310).

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