

***Interactive comment on “Modeling impacts of farming management practices on greenhouse gas emissions in the oasis region of China” by Y. Wang et al.***

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1. The greenhouse gases in title means CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub>, but why were only the N<sub>2</sub>O and CO<sub>2</sub> analyzed? 2. Section 2.1 should give necessary information: how large are the test area and 4 subareas for the 4 treatments, how many measurement points were selected in the each subarea, and how many days were tested? How do you conduct the QAQC? The photos for both test instruments may be perfect. 3. Section 2.2.1 is review of literatures, and should be moved to introduction. 4. In section 3.1, the results show the relationship between the modeled and measured concentrations. But the model accuracy to predict the N<sub>2</sub>O and CO<sub>2</sub> should be analyzed, and give

C754

the errors of model prediction. 5. Line 14-15 on page 3130, a figure is needed to demonstrate the relationship between temperature and CO<sub>2</sub>. 6. Line 17-19 on page 3130: How do you let readers to believe the root respiration is the main source of CO<sub>2</sub>?

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C755