

Interactive comment on “Potential effects of vinasse as a soil amendment to control runoff and soil loss” by Z. Hazbavi and S. H. R. Sadeghi

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Dear Natascha Töpfer Copernicus Publications Editorial Support

August 4, 2015

Greetings;

Referring your decision letter on my submitted manuscript (soil-2015-40) and encour-
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aging me to revise the manuscript after addressing the comments and suggestions of the respected reviewer. Here, Please find enclosed the revised version of the manuscript entitled "Potential effects of vinasse as a soil amendment to control runoff and soil loss" by Z. Hazbavi and S.H.R. Sadeghi. All comments and suggestions of the respected reviewer have been addressed in the revised version as detailed below. The entire revisions were highlighted by different color. The acknowledge receipt of the same and informing me about the status of the progress in paper evaluation is much obliged in advance. Should you need to contact me, please use the address given above or in the manuscript.

Revision Notes

Firstly, authors would like to thank the respected reviewer for his very constructive comments and suggestions.

Anonymous Referee #1 Received and published: 29 July 2015 The use of alternative materials and substances to improve soil quality and control soil erosion processes is a research topic of increasing interest. In this manuscript, the authors try to assess the potential of vinasse as a soil erosion reducer under control conditions. Despite it is an interesting topic, the experiments are limited and therefore the results, and there are several aspects that must be improved.

Introduction: P 770, L 14-15 and L 20-21. Repetitive. Ans. The second sentence (L 20-21) was removed.

P 770, L 25-26. What it is understood by 'properly used'? Ans. The sentence was restructured and hoping to be understood.

P 770-771, L 28-2. Add citations. Ans. The main citation was added.

P 771, L 3. One of the citations seems to be repeated. Ans. We checked the citation. They are correctly used.

P 771, L 22-29. This paragraph should be relocated and better connected to other

parts of the text. Ans. The mentioned paragraph was moved in proper place in the ms. text.

P 772, L 1-11. Please, relocate this paragraph Ans. We relocated and adjusted the mentioned paragraph.

Materials and methods: I would suggest to the authors to improve this section. If necessary, divide it in different parts (i) soil properties, (ii) vinasse characteristics, (iii) plot preparation, (iv) rainfall experiments, etc., providing the reader more details such as, the control plot, the rainfall simulator used... Ans. The reviewer suggestion was incorporated.

P 772, L 13-14. Include the objectives in the introduction. Ans. It was removed and the paragraph relocated proper place in the text.

P 772, L 24-26. Maybe, gather this information in a table. Ans. By dividing the M&M section to suggested subtitle, we think it is no need to present this information in a table.

P 773, L 4, L 10. Could you describe the natural or the field conditions? Ans. It was explained in the context.

Results and discussion: Could be possible to evaluate the repellency of the vinasse in some laboratory trials to check some of your hypothesis? Did the authors notice differences in the time of runoff initiation among vinasse doses? Could you change the units of runoff data in order to read the data easily? Ans. The difference between commencement as well as cessation times in different treatment was added to Figure 4. These units are common in similar paper and it had high precision.

P 774, L 6-8. Not necessary. Ans. It was deleted.

P 774, L 12-13, L 14-15. Repetitive. Ans. They didn't the repetitive. However, we removed the second sentence to avoid any probable misunderstanding.

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P 776, L 3-4, L 5-6. Repetitive. Ans. The first sentence was removed.

P 777, L 9. Change 'Soil physical' by 'soil physical'. Ans. We did it.

Conclusions: It is very difficult to conclude with the available data and changes in soil properties are not easily detected in such a short term, specially the physical ones. Ans. You may be true. But we just compared the treated conditions with the control ones. The time scale is alike.

L 25-27. No soil property have been measured in this study to conclude on this. Ans. The type of soil and its located was added to text.

I hope the final emendations caused to consent the respected reviewer and made my paper well qualified for final acceptance and publication.

Sincerely, S.H.R. Sadeghi

Enclosure

Please also note the supplement to this comment:
<http://www.soil-discuss.net/2/C350/2015/soild-2-C350-2015-supplement.pdf>

Interactive comment on SOIL Discuss., 2, 767, 2015.

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