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Interactive comment

Interactive comment on "Cooperative effects of field traffic and organic matter treatments on some compaction-related soil properties" by Metin Mujdeci et al.

Anonymous Referee #2

Received and published: 5 September 2016

The paper entitled "Cooperative Effects of Field Traffic and Organic Matter Treatments on Some Compaction-Related Soil Properties" deals with a very classical subject about soil compaction in a agricultural land in Turkey. Paper is interesting, but it is not performed to be understood. Authors deals with well-known problem. Methods and conclusions are not new neither revolutionary. In paper missing data for better understanding the methods, very important for understanding the results. There is no data related to crop performance, or for stability of aggregates, although authors explain great part of their results through state of structural stability in treatments. Missing explanations of the methods used in the research. What volume had cylinders for bulk density? Why authors did not measure (or estimate?) quantity of common vetch incorporated

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penetration resistance" Page 5 – line 9 –Please write: increased soil compaction measured by penetration resistance. Page 5 -line 10-11 - define which depths. Page 5 – line 12 - Put source (Fig 1) and support the written information Page 5 – line 12-14 - This is speculation. Authors did not measure those parameters. I suggest putting reference that supports this statement. Page 5 – line 16 – Add:or by adoption soil management system with decreased annual traffic. Page 6 - line 28-29 - It will be of great benefit for the paper quality if authors could provide structural stability test. There are numerous of simple handled tests in literature. Page 6 – line 35 – define ag-lands Page 7 – please remove borders around figures. Also remove horizontal lines. Also state did significance was determined at 0.01 or 0.05 level? Page 8 - line 11-13 -Please add Fig number that supports this information. Page 8 –line 16-17 – It is very hard to follow discussion when it is not clear when organic amendment is incorporated in soil? 2010? 2013? Or each year? Page 10 -line 15 - Please add: "... to be dependent to addition and type of organic matter treatment." Page 10 – line 15-16 – This is speculation. Where is author's data that support your statement? Authors did not state amount of green manure incorporated into soil.

Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-84, 2016.

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