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## ***Interactive comment on “Determinants of farmers’ tree planting investment decision as a degraded landscape management strategy in the central highlands of Ethiopia” by B. Gessesse et al.***

### **Anonymous Referee #2**

Received and published: 11 December 2015

Review comments for the paper entitled “Determinants of farmers’ tree planting investment decision as a degraded landscape management strategy in the central highlands of Ethiopia” By B. Gessesse, W. Bewket and A. Bräuning.

### General comments

The manuscript addressed one of the most essential topics in land degradation management options that aimed to recover different forms of the degraded landscapes and reverse the current situation of land degradation through adopting relevant and improved vegetative measures. The methodological approaches and statistical analysis employed in this study are appropriate. The major determinants of tree planting mea-

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tures that are of great concern in the study area are adequately reflected by referring to reputable papers that are published by many scholars showing similar case studies carried out elsewhere. In the light of this, the paper provides significant contributions to scientific research and development, policy makers and implementors of farmers' tree planting investment as a strategy for management of land degradation so as to address wide ranges of environmental, economical and social issues in the study area. However, some of the following minor revisions are needed to be considered before publishing.

Specific comments – The sentence in the abstract section, on p3246, line 11-17 is too long and better to split into two sentences. – The last two sentences of the abstract section are needed to be rephrased in order to strongly illustrate the overall conclusions of the study. This could be achieved by using better connective words or by minimizing the connective words. – In conclusion section, p3261 and p3262 the fourth, fifth and sixth sentences are needed to be coherently connected to convey the major conclusions of the study in a powerful manner.

#### Technical corrections

– On p3246, line 23-24 rewrite the phrases in the sentences as “..... chemical and biological as well as anthropogenic . . . .” – On p3247, line 4 the spelling for the citation “Turner and Mayer, 1994, as in line 4” shall be consistent with its corresponding one “Turner and Meyer, 1994” as found in the reference section. – On p3247, line 11-20 the sentence “ Considerable.....Teshome et al., 2014)” is too long and better to split it into at least two separate sentences. – On p3248, line 24-29 the sentence “Although.....Bewket, 2007)” didn't appear to maintain the logical flow of the ideas raised in the preceding sentences, hence it is recommended to rewrite it up . – On p3248, line 29 change the connective word “Besides” by “ In relation to this” to improve the coherent flow of ideas and source for the information is also missing. Siting relevant references are needed. – On p3249, line change the connective word “Thus” by “As a result”. – On p3249, line 5 rewrite the phrase as “The purpose of this study is to

contribute in bridging.....” âĀĀ On p3249, line 8 rewrite the phrase as “The specific objectives of this study are:” âĀĀ On p3249, line 9-10 rewrite the phrase as “.....reversing land degradation caused by deforestation and soil erosion tragedies,”. âĀĀ On p3249, line 16 rewrite the phrase as “It is a part of the upper.....” âĀĀ On p3249, line 25 rewrite the phrase as “. . . .is categorized into flat to very gently sloping....” âĀĀ On p3250, line 2 rewrite the phrase as “. . . .Chefe-Donsa (upstream) and Modjo (downstream)...” âĀĀ On p3250, line 11-12 rewrite the phrase as “Based on the 2010 population projection of the Central Statistical Agency (CSA),....” âĀĀ On p3250, line 13 rewrite the phrase as “. . . .172 person km2 lived.....” âĀĀ On p3250, line 18-19 rewrite the phrase as “Local experts’ and extension workers’ feedback...” âĀĀ On p3252, line 13 explanation for logit function shall be given at line 13 rather than giving explanation later in line 20 on the same page âĀĀ On p3254, line 2 the spelling for the citation “Pallent, 2007, as in line 2” shall be consistent with its corresponding one “Pallant, 2007” as found in the reference section. âĀĀ On p3254 (line 17), p3255 (line 13,24,), p3257 (line 15,22), p3258 (line 14, 18, 19, 21, 23), p3259 (line 2, 5,7,8,9, 10, 28), p3261 (line 22), p3268 (in Table 3) replace the word “lobour” by “labour” , and change “lobourer” by “labourer” âĀĀ On p3255, line 17-18 the percent of illiterate respondents is stated to be twenty-three, and this is inconsistent with the figure stated in Table 3 (thirty-three percent). âĀĀ On p3255, line 24-25 the word “most” in the sentence “Besides, most of the respondents had farming experience for more than 20 years” shall refer to the word “all” as 100 percent of the respondents had farming experiences for more than 20 years. Or the sentence can be maintained by changing the year of experiences from more than 20 years to more than 30 years. âĀĀ On p3256, line 15 rewrite the phrase as “. . . .regression model as shown in Table 4.....” âĀĀ On p3257, line 19 rewrite the phrase as “. . . . .is decisions discussed as follows.” âĀĀ On p3258, line 8 rewrite the phrase as “. . . .influence in adopting land management technology” âĀĀ On p3258, line 21 rewrite the phrase as “. . . . .productive labour force availability for tree growing...” âĀĀ On p3258, line 26-27 rewrite the phrase as “. . . . .his/her participation in tree growing which would be increased.....” âĀĀ On p3259, line 1 rewrite the phrase as

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“Similar studies carried out in other areas confirmed...” âĀĀ On p3259, line 25 rewrite the phrase as “. . . . .was considered as outcome variables. On the other hand,...”. Note that you need to insert full stop/period at the end of the word “variables” so that the sequences of words can be broken into two sentences. âĀĀ On p3260, line 4 rewrite the phrase as “. . . . .land-users’ perception...” âĀĀ On p3260, line 5-6 rewrite the phrase as “. . . . .affirmative implication on the likelihood of households participating in tree growing.” âĀĀ On p3261, line 12-13 rewrite the phrase as “Thus, further investigation should be needed to examine these cases to come across conclusive arguments.” âĀĀ On p3261, line 21 rewrite the phrase as “The study showed that, the likelihood of household size, . . . . .” âĀĀ On p3261, line 26 rewrite the phrase as “Due to these facts, the study provides relevant policy.....” âĀĀ On p3261 (line 27) and p3262 (line 1) rewrite the phrase as “Overall, it can be concluded that, land resource management.”

References Reference sited in the main body of the paper but missed in the reference section Berhan et al., 2014 (page 3250, line 10) Reference available in the reference section but not sited in the main body of the paper Field, A.: Discovering Statistics Using SPSS, 3rd edn., SAGE Publications Ltd, Los Angeles, United States, 2009. (page 3263)

I highly recommend the publication of this manuscript with minor revision.

Much regards,

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Interactive comment on Solid Earth Discuss., 7, 3245, 2015.

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