

Manuscript Number: Manuscript 84840v1

Title: Barley yield and malt quality affected by fall and spring planting under rainfed conditions.

General comments: In this study the authors determine the quality characteristics of malting barley cultivars in fall and spring plantings.

The study is meeting the scientific standard in terms of technical language, experimental design, and implication of the results. The English language of article seems better, but some typo errors should be checked briefly during revision. **I suggest a minor revision** for this article and will be happy to review its revised version. The following suggestions should be considered to improve the manuscript quality before its publication in *PeerJ*.

Specific comments:

1- IN ABSTRACT SECTION

- Need to write more details in methods of abstract.
- Should add the background to clear the problem and importance of diagnostic tools in prediction of disease in this study.
- Please re-check the abbreviations which have been mentioned in the whole manuscript. Please elaborate them at least once at its first place in the abstract and other sections of manuscript.
- Mention the final summarized conclusion in abstract.
- Add more keywords and re write the keywords with alphabetical order.

2- IN THE INTRODUCTION is well written, and, in my opinion, it sheds light on the problem in a concise manner. Overall, the objectives are briefly explained and are good to go with.

- Should add many recent references (2022-2023) in the whole paragraph in introduction section, Scientifically, a reference should be added at the end of each complete useful sentence.
- At the end of introduction section, should write the exact aim of the study as the same mentioned in the abstract section.
- Don't write with symbols like (&), can you have changed to “and” in your context in whole manuscript section.
- Don't start any paragraph with numbers or abbreviations.
- There are a lot of abbreviations in the results section, should give the full name of abbreviation when you use it for the first time then use it and apply this for each section separately.

3- IN THE METHODS SECTION is nicely presented and well described.

- Materials & Methods change to **Materials and Methods**
- Write with American or British English only.
- Some references are missing.
- Should be added manufacturer, city, state, and country of any soil analysis or others used....etc.
- Should be revise the Statistical analysis paragraph well, you should write recent reference.
- Don't write with symbols like (&), can you have changed to **“and”** in your context in whole manuscript section.
- Should add the map for the experimental site.
- Please check the whole manuscript, the format should be improved.

3- IN RESULTS SECTION

- Write with American or British English only. AsBasgül, «atalh[^]y,k, Efes-98, Erciyes, Kalayc1-97, ÷zdemir-05
- Revise well, don't start any paragraph with numbers or abbreviations.
- There are a lot of abbreviations in the results section, should give the full name of abbreviation when you use it for the first time then use it and apply this for each section separately.
- Should be revise the Statistical analysis well.
- Should add the chemical analysis of irrigation water.
- Write the full name of any words mentioned on the table at the end of the tables.
- All figures 1, 2, 3,4 are not clear, very bad quality, must add graph with high quality.

4- IN DISCUSSION SECTION

- Should summarize the first paragraphs in discussion section.
- Should summarize your results mentioned in the discussion section, then mention the agreement and disagreement studies with your results.
- Please do not repeat your results again in the discussion section. You can also delete any data of p value or standard deviation in this section. It is enough for you to say as statistically significant or no statistically significant differences.....and also on.
- In fact, the discussion is very poorly written with little references, most references are old, please add some recent literature (2022/2023) to discuss your results in the discussion section.
- There are several words written with other languages without English language.
- Give the full name of abbreviation when you use it for the first time then use it.

5- IN CONCLUSION

- The conclusion very too long, Please re-write the conclusion. The conclusion is recommended to be supported by the data shown in tables.
- Put detail of any limitations of this study
- Describe implications of this study and provide recommendations for future perspectives.

Regards