# Evaluation of Improved Food Barley Varieties in the New Potential Areas of East Gojam Zone, Ethiopia

#### Alehegn Workie Amanu\* and Mulugeta Bitew Jembre

Debremarkos Agricultural Research Center, Ethiopian Institute of Agricultural Research, Ethiopia

### Abstract

Barley is the main livelihood of farmers in East Gojam Zone particularly in Choke watershed. Choke watershed is home to more than 150,000 people living in six districts of east Gojam Zone. Smallholders in the area farm at the step sides of the mountain, and they practice the farming in a most traditional mechanism through oxen and horse plough. The farmers have no access for the improved varieties and they use their land races. The experiment was conducted at Aneded(research station)and Sinan (Wolekie kebele) districts during 2019-2021 main cropping season with objective of selecting the best adapting and performing varieties. Twelve varieties were laid out in a Randomized Complete Block Design with three replications. Plant height, spike length, above ground biomass and yield data have been collected and analyzed using Statistical Analysis Software (SAS, 9.4). Levene's test of homogeneity showed that p-value was signif cant (p<0.00001). As homogeneity test of variances result was signif cant the

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# Experimental treatments, design, and management

# **Data collection**

# Data analysis

#### **Result and Discussion**

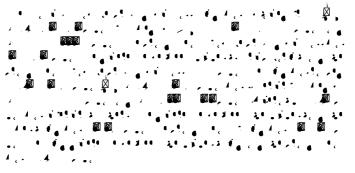
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# **Research on-station**

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# **Conclusion and Recommendation**

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