

Character of 5 Jember Hope Strains (GHJ) and 2 Comparative Varieties of Soybean Plants (Glycine max)(L) Merrill

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ABSTRACT

Soybeans are one of the important food crops after rice and corn. The decline in production figures continues to decline from year to year. Meanwhile, the community's need for soybeans continues to increase. Observation of vegetation is an important thing to know the genotype of the plant, so that it can be used as a plant identity. Research on the Character of 5 Strains of Jember Hope (GHJ) and 2 Varieties of Soybean Plant Comparators (Glycine max) was carried out in October–January 2025, which was carried out on the land of the Jember State Polytechnic Innovation Garden. This study uses a Descriptive Method by observing qualitative and quantitative properties ranging from hypocotyle color, flower color, feather color, seed color, hilum color, leaf shape, seed shape, plant height, number of branches, flowering age, number of pods, harvest age, weight of 100 seeds. Qualitative character is a trait that can be observed directly, such as color and shape, and this trait is influenced by simple genes and environmental factors. Quantitative character is a trait that is influenced by many genes and the environment. The results of the study showed that there were differences in 5 strains and 2 comparative varieties based on qualitative properties such as flower color, feather color, hilum color, leaf shape, seed shape and quantitative properties of soybean plants such as plant height, number of productive branches, flowering age, number of pods, harvest age, weight of 100 grains.

Keyword: *Performance; character; qualitative traits; quantitative traits*