

Morphological Diversity of Avocado in West Java Province

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Abstract. Avocado (*Persea americana* Mill.) originated from South Mexico, Central America and has spread widely to various countries as far as Southeast Asia, including Indonesia. Avocado is one of fruit commodity that has high economic value in Indonesia. West Java is one of the producing areas. This study was aimed to analyze the morphological diversity of avocado in several regions in West Java. The research was conducted in 2019-2022. The characterization of avocado cultivation was done in Bogor and Depok Regency, West Java. Characterization of twelve avocado accessions, namely Bambang, Sam, Ciper, Boge, Apenina, Bahagia, Otong, Memet, Muladi, Penjol, HD and Pamtasa. The characters observed were the morphological characters which were qualitative and quantitative in accordance with the Descriptor for Avocado. The observed morphological characters which were qualitative and quantitative of tree, leaves, fruit and seed in accordance with the Descriptor for Avocado (IPGRI 1995). Data analysis used Principal Component Analysis (PCA) and Cluster Analysis by Minitab 16. The results showed that the seven principal components 96,4% to plant diversity. The genetic resources of avocado in West Java are divided into four clusters at 24,2% similarity level.