

Abstract:

Ampography means qualitative measurements and Ampometric means quantitative measurements which done by considering morphological difference between cultivars. Present study has been carried out in order to investigate and characterize some local Geotypes in Sistan. For this purpose, views were taken from the gardens. After studying and collecting comprehensive information from gardeners and removing cultivars which have same name, remaining genotypes were identified and tagged in each garden. Quantitative and qualitative traits were measured at different phenological stages using a Universal Descriptor (IBPGR) 46. These traits are included of: vegetative traits on the stem, shape of the lateral bud, density of tip Trichome, presence of anthocyanin on the tip trichome, the color of the abdominal and back of intrnode and Glosbe, density of trichome on intrnode and Glosbe, the color of the upper surface of the blade, the density of the trichome between the vein of lower surface of the leaf and the density of trichome on the main vein of the upper surface of the leaf. All of these traits were measured and recorded on the fourth young leaf at the stem ends in the interval between advent of bulbs flower to the end of flowering time. Also, measurements on the leaf were done on the mature leaves over the last cluster from the tip of the branch and in the middle third part of the stem. Data analysis was performed using PAST software. In order to classify Grape cultivars based on the morphological and qualitative traits, The cluster analysis using classical method and UPGMA algorithm and Euclidean coefficient were used and $COPH=0.89$ was determined. The results of this research and the recorded cultivars traits showed that all cultivars due to having features such as the absence of transverse spin on the side of the seed, the presence of non-sequenced ivy, the absence of bivalence, the open-ended shape of the young stem, belong to Vinfra (*V. vinifera*). Synonymous and Homonymous cultivars were identified.

Key words: Grape, Descriptor, Phenological



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**Ampelographical and ampelometrical description of
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