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Morphological, Anatomical and Ecological studies on the two Turkish endemic species collected from Kaz Dağı (B1 Balıkesir) "Allium sibthorpiatum Schultes & Schultes fil. and Allium reuterianum Boiss."

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Abstract: This investigation enlightens the morphological, anatomical and ecological characteristics of Kazdağı endemics namely Allium reuterianum Boiss. and Allium sibthorpiatum Schultes & Schultes fil. (Liliaceae). A. sibthorpiatum occurs in Bursa, Kütahya, Denizli, Isparta and Çanakkale (newly recorded), whereas A. reuterianum is found in Southwest Anatolia, Islands, Manisa, Denizli, Muğla, Isparta and Çanakkale (newly recorded). Root anatomy of A. sibthorpiatum and A. reuterianum typically show exodermis and an empty pith. In addition in the scapes of both the species layering in the area between epidermis and cuticle results in its thickening. The leaves in both species are not hairy. Reticulate shaped open spaces are met with in the bulbs surrounded by thick walled cells formed as a result of drying. These species prefer the soils rich in nitrogen, phosphorus, potassium and organic matter.

Key Words: Endemics, Liliaceae, Allium, Morphology, Ecology.

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