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An Investigation on *Chrozophora tinctoria* (L.) Rafin. Distributed in West Anatolia

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Abstract: The morphological characteristics of the root, stem, leaf, flower, seed and fruit of *Chrozophora tinctoria* (L.) Rafin. (Euphorbiaceae) distributed in West Anatolia were determined, and biometric measurements were taken from samples collected from 42 different localities. This plant is a monoecious, annual herb, 28-63.50 cm. and stellate hairy. Its leaves are alternate and their shapes vary from rombic-ovate to ovate-lanceolate. The leaves are bifacial and amphistomatous. Their stomatas are of the amaryllis and parasitic types. The development of the root, stem, and leaves of the plant were observed when grown under various fertilizer, soil, lime and watering conditions, and their biometric measurements were taken. The plant did not show any sign of growth or development under shade and lime conditions. Fertilizer inhibited growth and development of the root while stimulating the stems and leaves. IBA and Pokon hormones were not effective in vegetative propagation. The plant grows under various conditions at altitudes of 0-1650 m.

Key Words: *Chrozophora tinctoria* (L.) Rafin., morphology, anatomy, dye plant, vegetative propagation, cultivation.

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