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The invention refers to the agriculture, namely, to the plant growing and may be used for plant drought resistance determination in the vegetation period.

The proposed method includes determination of plant tissues electrical resistance changes before and after fading. Novelty consists in that before and after fading it is carried out the total saturation of leaves with water up to the optimal physiologic state, and the plant drought resistance is determined according to the electrical resistance of leaves tissue after fading and rehydration thereof.

The result consists in rising the method accuracy by evaluation of the plant possibility to restore the physiologic functions after stress factor influence.