

Evaluation of some sorghum [*Sorghum bicolor* (L.) Moench] cultivars and lines as sweet, dual purpose, and grain types

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Abstract

Nine cultivars and lines of sorghum of Iran were evaluated for sucrose content, grain yield, and yield components. Results show that cv Rio had the highest sucrose content (125.6 g kg⁻¹ fresh stalk) and cv Turno, the lowest (28.8 g kg⁻¹). IS 18154 (1085 g m⁻²) had the highest grain yield and cv Rio (541 g m⁻²), the lowest. Soave was intermediate in both sucrose content and yield; hence can be recommended either as grain or sweet sorghum type. Cv Turno, with low sucrose content, and yield is neither suitable as a sweet nor grain cultivar. Other sweet sorghum cultivars or lines that were evaluated in this study may be used for dual purposes.

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