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Evaluation of ten jojoba clones (*Simmondsia chinensis*) grown under Middle Sinai conditionsS.M. Bakeer <sup>a</sup>  , K.R. Makpoul <sup>a</sup>, Mohamed Abou-Ellail <sup>b</sup> Show more<https://doi.org/10.1016/j.indcrop.2017.05.024>[Get rights and content](#)

## Highlights

- Identify higher yielding jojoba clones at full maturity.
- Significant variations among studied jojoba clones in most of the parameters evaluated.
- Superior jojoba clones S-700, S-B and S-610 offer high production of seed yield.
- Clones S-G, S-700 and, S-L were obtained the higher seed wax content.

- Plant height and [fruit set](#) showed a significant positive correlation with seed yield.

## Abstract

*Jojoba* (*Simmondsia chinensis*) is a potential [alternative crop](#) in Egyptian desert because its seed contains a liquid wax which, in addition to several miscellaneous uses. Short term selection programs that identify higher productive jojoba clones of higher wax quality are desirable to supply commercial [plantations](#) with superior jojoba clones. Ten promising jojoba clones i.e. S-700, S-1700, S-1300, S-610, S-118, S-B, S-G, S-L, S-MT and S-Z were subjected to short term selection program. These clones were grown at Middle Sinai Experimental Station, Desert Research Center, North Sinai Governorate, Egypt. Evaluated clones showed variations in the studied [vegetative growth](#) traits i.e. tree height, tree [canopy](#) volume, and branching and node traits. Also, the evaluated clones showed differences in the studied [fruiting](#) traits i.e. fruit set, seed yield, seed weight and seed wax content. Seed waxes were analyzed for acidity, iodine and [saponification](#) values. There are low significant differences between clones in their liquid wax chemical properties. The results showed that plant height and fruit set percentage had significant positive correlation with seed yield. The best clones regarding seed yield were S-700, S-B and S-610. Moreover, S-G, S-700 and S-L showed superiority in seed wax content, which give these clones competently to establish commercial plantations in Egypt.

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## Keywords

Jojoba clones; Vegetative growth; Flowering parameters; Seed yield; Wax content; Middle Sinai

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