

## عنوان مقاله:

(.Technique, Time, and Etiolation Applications Influencing the Grafting Success in Avocado (Persea americana Mill

## محل انتشار:

مجله بین المللی علوم و فنون باغبانی, دوره 11, شماره 2 (سال: 1403)

تعداد صفحات اصل مقاله: 16

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## خلاصه مقاله:

In a two-phase experiment during ۲۰۱۸ and ۲۰۲۱, propagation success of avocado was evaluated against three types of grafting (cleft, veneer and splice) and two types of budding (T and patch) practiced at the ۳rd week of February, April, June, August, October and December considering the atmosphere of the six seasons (spring, summer, rain, autumn, late autumn and winter, respectively) of Bangladesh. Cleft grafting operated during the spring season demonstrated statistical superiority by exhibiting earlier bud sprouting (۲۵.۵۸ days) and better sapling qualities (۱۶.۲۷ cm scion growth and ۱۴.۵۷ leaves sapling-۱), and producing significantly maximum transplantable propagules after ten months of grafting compared to all other combinations. But commercial multiplication couldn't be satisfied with only ۴۸.۰۰% success rate at the best combination. Thereafter, a post-grafting etiolation was applied to the spring season's cleft grafts. Out of ۷۲-hour, ۱۲۰-hour, ۱۶۸-hour and ۲۱۶-hour etiolation and control (non-etiolation), etiolation up to ۱۲۰-hour significantly augmented the success rate compared to control but ۲۱۶-hour etiolation treatment failed to produce any successful grafts. The earliest bud sprouting (۲۱.۳۷ days) with statistically maximum bud sprouts (۸۶.۰۰%) and transplantable grafts (۷۸.۶۷%) of superior quality was obtained from ۱۲۰-hour etiolation compared to other treatments, while control treatment produced only ۴۹.۳۳% transplantable grafts. Thus, ۱۲۰-hour etiolation produced ۵۹.۴۶% more transplants over non-etiolation. T-budding and winter season were noted as the statistically worst technique and time for avocado grafting. Veneer grafting and autumn season were demonstrated as the second best options. Therefore, post-grafting treatment is suggested for vegetative propagation of avocado

## کلمات کلیدی:

Fruit crop, grafting and budding, post-propagation treatment, propagation success, propagation technique and time, vegetative propagation

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