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Effects of Culturing Methods of Mother Plants on Yield and Quality of Rooted Cuttings in Summer-to-Autumn *Chrysanthemum morifolium* Ramat.

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The effects of soil or soilless culture of mother plants on the yield of rooted cuttings were examined in the summer-to-autumn-flowering 'Seiun'. The yield of cuttings in soilless culture was about two times lengths of rooted cuttings taken from mother plants grown in soilless; the number of leaves greater compared with those in soil culture. Es premature budding of rooted cuttings taken from mother plants grow

those grown in soil culture. We also investigated the effects of cutting the nutrient solution, planting density, and shading treatment of mother plants in soilless culture. The yield of cuttings grown in soilless culture was 25.6 per m² and with an intermediate concentration (nitrate 142 ppm). It was clear that the stem length of rooted cuttings taken from the mother plant were taken later and the concentration of nutrients. Mother plants in the greenhouse were shaded from ambient daylight with cheesecloth between June and August. The yield of cuttings taken from the control conditions increased and the rooting of cuttings improved in intensity. The above results are considered applicable to the cultivation of summer-to-autumn-flowering chrysanthemum.

Key Words: [cutting production](#), [Dendranthema grandiflorum](#), [premature budding](#), [stock plants](#)

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