

## Abstract

This study is intended for identifying the factors that affect the transfer an adoption of ornamental plants production technology in Khartoum State, with special reference to some selected ornamental plants. The author has great interest in ornamental plants and has practiced commercial production in private nursery for 20 years.

The study paid special attention to the present situation of production of ornamental plants in Khartoum State. The research revealed lack of documented scientific research findings concerning production of ornamental plants in Khartoum State.

The analysis was focused on identification of economic and technical factors affecting diffusion and adoption of ornamental plants production technology.

For testing the study hypotheses on factors affecting adoption of ornamental plant production technology, a purposive sample of 50 respondents was selected (25 nursery owners and 25 house garden owners) involved in the production of ornamental plants.

Data analysis revealed that economic factors affect adoption of ornamental plants production. It was revealed by the analysis that only 60% of nursery owners practice production of ornamental plants as a main occupation. The balance (40%) of the nursery owners practice ornamental plants production as a secondary occupation. This may be attributed to the low income generated by commercial production of ornamental plants.

The analysis also revealed lack of effective contact between the extension agencies and nursery owners and the public in general.

Extension programs in ornamental plant production technology are needed by nursery owners and house garden owners alike. Needed in the diffusion of information on the names and breeding methods for production of the different ornamental plants that can be raised under the environmental conditions prevailing in Khartoum State.

Based on the study findings, a set of recommendations was developed including:

- Production of intermediate ornamental plant production technology.
- Adoption by researchers and extension agencies of programs to spread knowledge about ornamental plants and their production methods.
- Establishment of model ornamental plant production Nurseries for extension and training purposes.