

AGRICULTURAL EXHIBITION THEME | ORNAMENTAL PLANT | UPM



# ORNAMENTAL PLANTS

“Branches of Knowledge,  
Leaves of Change”

Malaysia Agriculture Resources Division  
Sultan Abdul Samad Library



# WHAT IS ORNAMENTAL PLANTS?



***“The term ornamental plant is generally applied to plants that are cultivated for aesthetic and decorative purposes. They have beautiful characteristics which are the nature of their flowers and leaves, sweet desirable scent, and attractive foliage texture, which is why they are cultivated (Oloyede, 2012). Ornamental plants have both aesthetic and economic significance. Their aesthetic importance is the fact that they beautify the environment which make them popular in the design of lawns, gardens, malls, etc. as decoration (Imanishi et al., 1992; Zhao and Tao, 2015).”***

Wadzani Palnam Dauda, Ishaku James Dantata, Adetunji, C. O., Abraham, P., Ulasi Joseph Ifeanyi, Glen, E., Daji Morumda, Abraham, S. E., Wabba, G. P., Ogwuche, I. O., & Ogundolie, F. A. (2023). The effect of evaporative coolant structure on ornamental plants. Elsevier EBooks, 209–235.  
<https://doi.org/10.1016/b978-0-323-89864-5.00011-4>

# ORNAMENTAL PLANTS IN RESEARCH

## RHODOMYRTUS TOMENTOSA VAR. TOMENTOSA



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IDENTIFICATION OF THE PHENOLOGICAL GROWTH STAGES OF RHODOMYRTUS TOMENTOSA VAR. TOMENTOSA USING THE BIOLOGISCHE BUNDESANSTALT, BUNDESSORTENAMT AND CHEMICAL INDUSTRY (BBCH) SCALE

AHMAD NAZARUDIN MR, ROSFARIZAL K, ALIA SHAZWANI S

**“Rhodomyrtus tomentosa var. tomentosa is a multipurpose flowering shrub in the Myrtaceae family. Naturally, this species thrives in the secondary forest areas and is cultivated as a garden plant due to its attractive flowers. The Biologische Bundesanstalt, Bundessortenamt and Chemical Industry (BBCH) scale was used to identify the phenological growth stages of R. tomentosa.”**

Journal of Tropical Forest Science 35(2): 179-188 (2023)

This study aimed to add detailed information on the growth and development of R. tomentosa by developing the BBCH scale and the duration of each growth stage of the species for better documentation and future investigation. The article can be found at [AGRIS MALAYSIA](#).

READ MORE :



# ORNAMENTAL PLANTS IN RESEARCH

## Nepenthes hybrid



Micropropagation of nepenthes hybrid (N. Viking × N. Miranda) using a temporary immersion bioreactor system, Setis™

SITI SUHAILA A. R. AND NORWATI M.

“A temporary immersion bioreactor system, SETISTM, was successfully used for micropropagation of Nepenthes hybrid (N. viking × N. miranda). Tissue culture plantlets easily wither during acclimatisation due to water loss caused by less wax formation and lack of stomatal function in leaves. Therefore, this study was aimed at improving the leaf performances and survival rate of Nepenthes.”

Journal of Tropical Forest Science 33(4): 494-500 (2021)

This study was aimed at improving the leaf performances and survival rate of Nepenthes. It was carried out by Siti Suhaila A. R. and Norwati M. in 2021. The article can be found at [MyAgric database](#).

Read more :



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# ORNAMENTAL PLANTS IN RESEARCH

## Multispecies and Arundina orchid

Economic production of selected ornamental plants: Multispecies and Arundina orchid

MOHD ZAFFRIE MAT AMIN\*, HANIM AHMAD\*\*, NIK ROZANA NIK MASDEK\*,  
MOHD TARMIZI HAIMID AND MUHAMAD SYAFIQ AHMAD DANI\*

“Floriculture planting in Malaysia experienced a new revolution when the floriculture industry listed it as a high-value crop that can benefit the national economy in the 10th Malaysia Plan (10MP). Thus, the horticulture centre in MARDI took the initiative to introduce a few new plants called Multispecies that were suitable for landscape planting and bloomed throughout the season like Arundina Orchid (lasting in hot weather) compared to ornamental plants.”

ECONOMIC AND TECHNOLOGY MANAGEMENT REVIEW, VOL. 15(2020): 61–68

The findings of this study are expected to assist in formulating stronger strategies, approaches or policies to facilitate marketing and export market channels, thus preserving the country’s floriculture industry. This article can be found at [MyAgric database](#).

Read more :



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# ORNAMENTAL PLANTS IN RESEARCH

## Capsicum frutescens L



The Effect of Short-term Intermittent Light Exposure on Total Carbon Content and Quality of Dark-stored Ornamental Chilli Plants

T.M.M. MAHMUD, M.F. RAMLAN, SITI HAJAR AHMAD AND S.J. KAYSJ

“Using ornamental chilli (*Capsicum frutescens* L.) as a model plant, a study was conducted on carbon balance analysis to determine the potential of using 2-3 hours of intensive light exposure per day to maintain the plant quality during 16 days storage period. Carbon input/output ratios were ascertained by measuring respiratory carbon losses and photosynthetic carbon inputs.”

PERTANIKAJ. TROP. AGRIC. SCI. 20(1): 13-18(1997)

This study highlights the effectiveness of short-term intermittent light exposure in reducing carbon loss and maintaining the quality of ornamental chilli plants during dark storage, offering a practical and sustainable solution to extend shelf life and reduce postharvest losses. The article can be found at [UPMIR database](#).

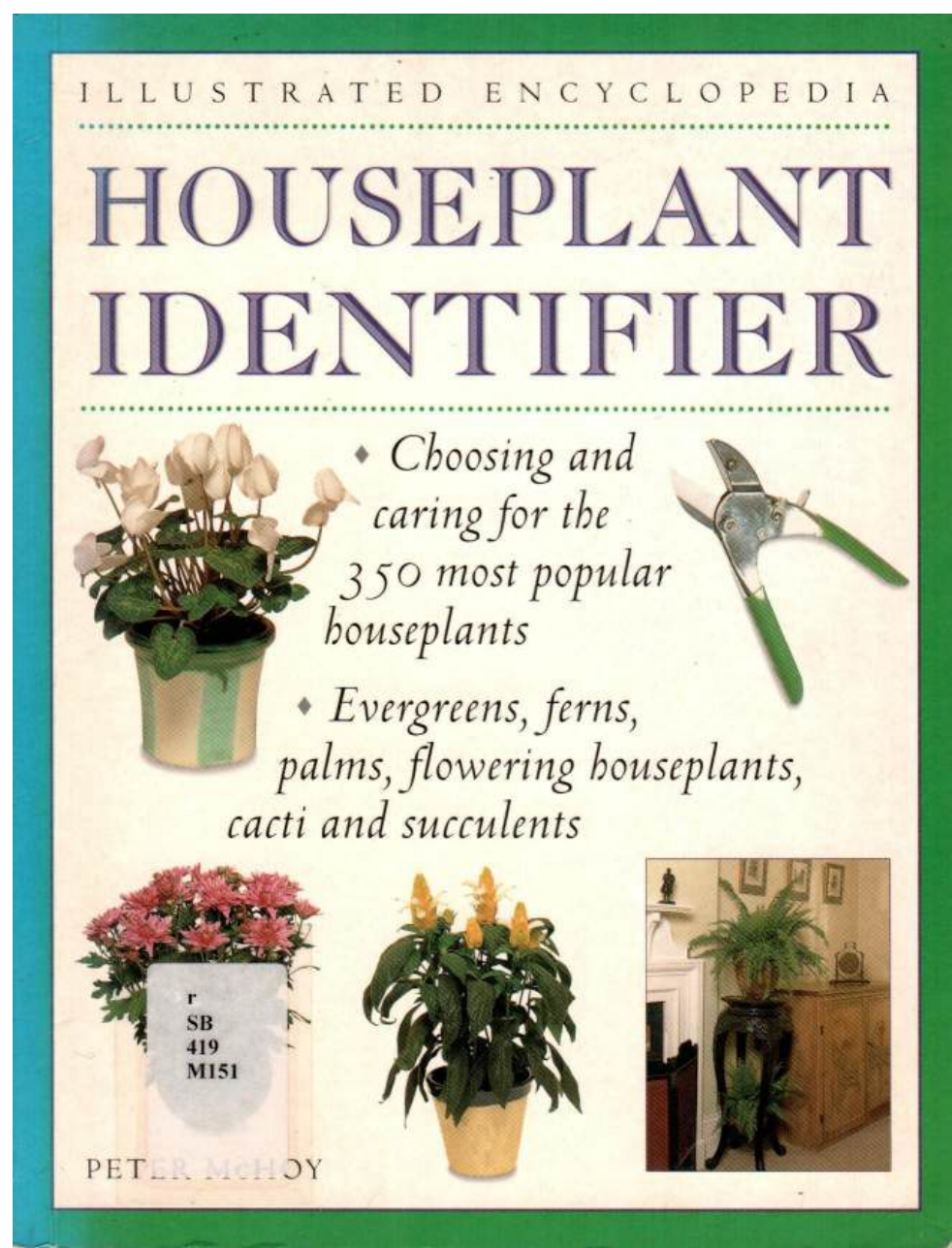
Read more :



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# ORNAMENTAL PLANTS IN RESEARCH

## Reference and Rare Collection

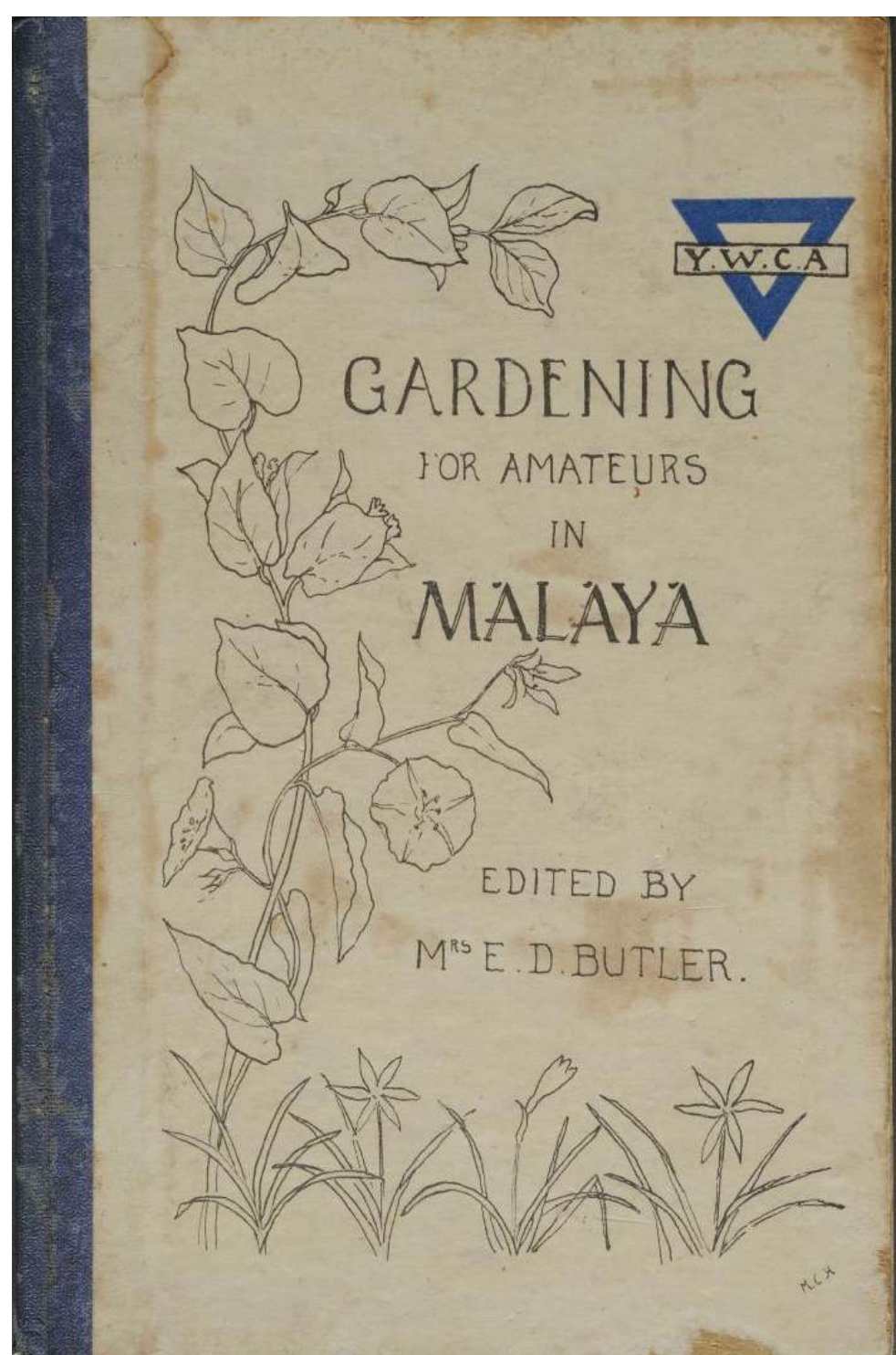


**Houseplant identifier : illustrated encyclopedia / Peter Mchoy.**

“No book can be totally comprehensive, of course, and if you begin to collect particular groups of plants such as bromeliads, cacti or orchids, you will find many more varieties at specialist nurseries. In most cases, these varieties are likely to prefer similar conditions and care to those mentioned in this book.”

**Call Number : SB419 M151**

**Current Location : Perpustakaan Sultan Abdul Samad (Main Library) Reference Collection**



**Gardening for amateurs in Malaya / edited by E Dean Butler.**

“*Gardening for Amateurs in Malaya*, edited by E. Dean Butler, is a vintage gardening guide tailored for enthusiasts cultivating tropical plants in Malaysia and Singapore. While specific reviews of this book are scarce, its enduring presence in gardening literature suggests it has been a valuable resource for understanding regional horticulture.

The book likely covers practical advice on soil preparation, plant selection, and maintenance techniques suitable for the tropical climate of Malaya. Given its focus, it would be particularly beneficial for gardeners interested in traditional methods and plant species native to the region.”

**Call Number : SB466 M35G218**

**Current Location : Perpustakaan Sultan Abdul Samad (Main Library) Rare Agriculture Collection**