

Dendrobium

Dendrobium is a diverse genus of orchids with different cultural needs. Many go through a growth phase and then a rest phase during the course of one year, and must be given water and temperature to match these periods of growth and rest. Flowers can last one day to many weeks, depending on the type. Owing to the extreme diversity of the genus, we have categorized culture according to the following main types:

PHALAENANTHE (Hard Cane) Evergreen for several years, with thin, tall pseudobulbs, terminal inflorescences, usually appearing in the autumn or twice a year (see culture). Species such as *Den. affine*, *Den. bigibbum* (phalaenopsis), *Den. dicuphnum* and *Den. williamsianum*.

Culture Grow warm year round (see below); 16°C nights; water and fertilise heavily when roots appear from new growth; medium light; reduce water and fertilizer after growth finishes. If a short (three- to four-week), cooler 13°C dry rest is given, and then plants are warmed again 16°C, another growth may mature during winter and flower in the spring. Treat this growth as a summer growth cycle. These grow well with phalaenopsis, except for the rest period. Plants will go deciduous if grown too cool and dry.

SPATULATA (Antelope Type – Hard Cane) Evergreen for several years. Most are large, vigorous plants with long-lasting flowers in summer to several times a year. Species such as *Den. antennatum*, *Den. canaliculatum*, *Den. discolor*, *Den. gouldii*, *Den. johannis*, *Den. lineale* (veratrifolium), *Den. stratiotes*, *Den. strebloceras* and *Den. taurinum*.

Culture Warm all year (16 to 19°C nights, 24 to 33°C days); no rest period; can be kept cooler in winter if dry; medium to high light.

DENDROBIUM (Soft Cane) Most of the plants are pendulous, with leaves all along the canes that most often drop with onset of cooler, drier weather. One to five flowers per node are borne from the nodes of the leafless canes in midwinter through early spring.

Group 1 Species such as *Den. chrysanthum*, *Den. friedricksianum*, *Den. nobile* and *Den. wardianum*

Culture Growth period in summer; give warmth, water and fertilize heavily from when roots appear until top leaf appears on canes. Then give high light, little water, no fertilizer, cool nights (5 to 10°C). In other words, forget about them.

Group 2 Species such as *Den. anosmum* (superbum), *Den. crassinode*, *Den. falconeri*, *Den. fimbriatum*, *Den. findlayanum*, *Den. heterocarpum* (aureum), *Den. loddigesii*, *Den. moniliforme*, *Den. parishii*, *Den. primulinus* and *Den. transparentis*.

Culture Same as Group 1, but winter nights 13°C. Deciduous species need virtually no water in winter.

CALLISTA Most are pseudobulbous plants with pendent inflorescences. Species such as *Den. aggregatum* (now properly *lindleyi*), *Den. chrysotoxum*, *Den. densiflorum*, *Den. farmeri* and *Den. thysiflorum*.

Culture Summer give warmth (16 - 32°C), medium light, medium quantities of water and fertilizer. Winter keep cool (10 °C nights), medium light, just enough water to keep pseudobulbs from shriveling, no fertilizer.

LATOURIA Leaves at top of pseudobulbs are large and leathery, inflorescence erect, flowers commonly yellow-green. Species such as *Den. atrovioleaceum*, *Den. macrophyllum* and *Den. spectabile*.

Culture Same as antelope types, but cooler and drier when resting in winter.

FORMOSAE (*Nigrohirsutae* Type) Canelike pseudobulbs, with black hairs on leaf sheaths and pseudobulbs often apparent, leading to the popular name *nigrohirsutae*. Flowers usually white, up to 4 inches across, two to three together from near the end of the pseudobulb. Long lasting. Species such as *Den. bellatulum*, *Den. dearii*, *Den. draconis*, *Den. formosum*, *Den. infundibulum*, *Den. lowii*, *Den. lyonii*, *Den. margaritaceum*, *Den. sanderae* and *Den. schuetzii*.

Culture Intermediate to cool year round, 10 to 16°C nights, maximum 30°C days. Water and fertilize when growing; give a slight short rest (dry) when growth is completed. Keep barely moist until growth starts again.

OTHER SPECIES Among the popular types are *Den. linguiforme*, *Den. tetragonum*, *Den. gracillimum* and *Den. cuthbertsonii* (*sophronitis*).

Culture Depends on the plant's native environment. It is generally safe to grow them intermediate to warm (13 - 16°C at night), drying them out in winter (or as growth stops). Hybrids between sections vary in culture.