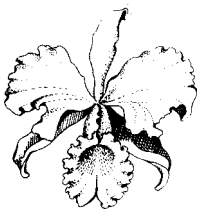
Orchid Culture Sheet

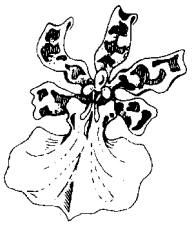
1065 Broadway, San Pablo, CA 94806 ● 800-DYNA-GRO ● info@dyna-gro.com

Cymbidium: **Light and Temperature:** 2,000-4,000 foot-candles. Cymbidium orchids may be grown outdoors in areas where heavy frost does not occur. They need filtered sunlight or full sun for half a day and good air movement. Foliage will be slightly yellow green, not dark green. Cymbidiums withstand a great deal of heat and cold. Night temperatures between 45°-50°F are necessary during Fall and early Winter with a 20°-30° day versus night temperature difference to initiate blooming. **Watering and Feeding:** Water when plants are almost dry. Do not let your cymbidium dry out or stand in water, especially in winter. **Feed Dyna-Gro™ Hi-N-Pro™ 10-5-5, or Liquid Grow 7-9-5 at the rate of 1 tsp./gal. with each watering** during the growing season (Feb.-Sept.). Flower spikes are initiated anywhere from Aug.-Nov. and flower four to five months later (Nov.-June) according to variety. During the winter months feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at 1 tsp./gal. of water with each watering**. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. *Do not use fertilizer containing urea on any orchid.* Urea requires breakdown by soil microbes that are not in great supply in orchid media. A toxic salt build up can occur that can burn tender roots. **Repotting:** There are many mixes that are satisfactory for terrestrial orchids like cymbidiums, particularly with appropriate watering schedules. A good mix should hold moisture, but drain freely. **Fine Dyna-Rok® or a mixture of coarse and fine Dyna-Rok®** or a fine bark mix meets this requirement. Plants should be repotted every two to three years when in bark, if the mix is deteriorating or they seem to be in decline. Plants in Dyna-Rok® will only need to be repotted when they become pot bound or need to be divided. Repot after flowering and before July. Move plants into larger pots after removing the old dead roots and potting medium or divide them into clumps with three or more green bulbs. Remove dormant bulbs and set aside. Select a container that allows 2 years of growing room (1"-2" free space around bulbs). Spread the white healthy roots into the container and fill with the orchid medium, tamping it down firmly enough to hold the plant erect. Sterilize tools between plants to reduce spread of virus diseases. Water after repotting with **1 Tbl. of K-L-N The Rooting Solution** to a gallon of water. Repeat the application at two week intervals for up to 6 months.

Miltonia: **Light and Temperature:** 1500 foot-candles of bright filtered light with no direct sun. Day temperatures 75°-80°F and 55°-60°F at night. **Watering and Feeding:** Never allow Miltonias to remain dry for any length of time. Crinkled leaves are a sign of insufficient water. Use **Dyna-Gro Nutrition Solutions** at the same rates and times as for Masdevallia or Paphiopedilum orchids. **Repotting:** Same as paphiopedilums.



Cattleya: **Light and Temperature:** 1500-2000 foot-candles-bright filtered light with no direct sun. Leaves should be light green in color, stiff and leathery in texture. Cattleyas prefer a warm environment with day temperatures 85°-90°F and 55°-60°F at night. **Watering and Feeding:** Allow plants to dry out between waterings, then water thoroughly. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/2 tsp./gal.** with each watering. To promote flowering, feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower sheath initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Cattleyas should be repotted when the plant outgrows the pot, about 2-3 years. **Coarse Dyna-Rok®** or medium grade fir bark should be used. Repotting is best done when new shoots or roots are beginning to grow in the Spring and Summer.



***Oncidium*:** **Light and Temperature:** 1500 foot-candles-bright filtered light with no direct sun. Leaves should be light green in color. Oncidiums will tolerate a wide range of temps. Maintain a daytime temperature of 75°-85°F and a night temperature not lower than 55°. **Watering and Feeding:** Oncidiums should be allowed to almost dry out between waterings. When they are actively growing, or in bloom, give them more water. When there is no growth taking place, let them dry out between waterings. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/2 tsp./gal. of water with each watering**. To promote flowering, feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Oncidiums in bark should be repotted every 2 years or when the bark has broken down. Mature plants like **Coarse Dyna-Rok®** or medium grade fir bark, while small plants and seedlings need **Fine Dyna-Rok®** or a fine grade of bark. Repot when the new growth is 2-3 inches tall.

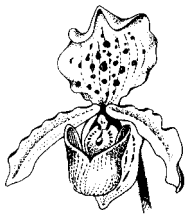
Vanda: **Light and Temperature:** 2,000-8,000 foot-candles-bright light with no direct sun. Leaves should be a light green color. Warm day temperatures between 75°-85°F and night temps not below 60°F. **Watering and Feeding:** Vandas like plenty of water and should not dry out between waterings. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/4 to 1/2 tsp./gal. with each watering.** To promote flowering, **feed Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Vandas enjoy regular misting with the same nutrient solution to help keep them moist and fed. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Vandas should be repotted when the potting mix has broken down or about every 2-3 years when in a bark mix. Use a well drained, coarse grade of fir bark or **Coarse Dyna-Rok®**. Spring and Summer are the best times for repotting.

Dendrobium: **Light and Temperature:** 1500-3000 foot-candles-bright light with no direct sun. They prefer warmer day temps between 75°-85°F and night temps around 60°F. **Watering and Feeding:** Dendrobiums should be allowed to almost dry out between waterings. Feed **Dyna-Gro™ Liquid Grow 7-9-5 or at the rate of 1/2 tsp./gal. of water with each watering**. To promote flowering, feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Should be done every 2-3 years if in bark mix or when they outgrow the pot. **Coarse Dyna-Rok®** or medium fir bark should be used for mature plants, while seedlings like **Fine Dyna-Rok®** or fine fir bark. Dendrobiums like to be somewhat crowded in the pot. **Australian and Nobile Dendrobiums:** Dendrobium kingianum and many other Australian species will tolerate a wide range of temperatures. They like very bright light and will tolerate temperatures up to 90°F and as low as 32°F. Allow them to dry out some during late fall and early winter. A drop in night temperature to 50°F for at least a month in late winter will help promote bud set. Feed with every watering the same as other Dendrobiums.

Odontoglossum: **Light and Temperature:** Bright filtered light with no direct sun. Leaves should be medium green in color with a slight pinkish tinge which indicates maximum light levels around 1,000 foot-candles. Maintain a cool environment with good air circulation, 70°-75° day temps and 50°-55° at night. **Watering and Feeding:** Plants should not be allowed to dry completely. Water when almost dry. The pseudobulbs will shrivel slightly if the plant is too dry. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/2 tsp./gal. with each watering.** To promote flowering, feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Plants should be repotted at least every two years or when the potting mix has broken down. Odonts prefer **Fine Dyna-Rok®** or a fine grade fir bark. After removing all the dead or rotted roots, choose a pot where the roots fit somewhat snugly. Do not over pot. The best time to repot is when a new growth is 1-3 inches long.

Phalaenopsis: **Light and Temperature:** 1,000 foot-candles-bright filtered light with no direct sun. Leaves should be glossy medium green, and should increase in size with each new leaf. Old bottom leaves that turn brown and fall off is normal. Maintain a warm environment with good air movement, temps between 75°-95° days and 60° nights. A 15°-20° day to night differential is required for flowering. Bloom spike initiation can be encouraged by night temperatures in the low 50°s and using a bloom formula such as **Dyna-Gro™ Liquid Bloom or Mag-Pro™** . **Watering and Feeding:** Plants should not be allowed to dry completely. Water when almost dry, usually once a week. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/2 tsp./gal. with each watering**. To promote flowering, feed **Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation**.** Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. If in Pro-Mix or Shunshine mix, double the amount of nutrients for each 3-4 week watering. **Repotting:** Plants should be repotted when the potting mix has broken down, if in bark. **Coarse Dyna-Rok®** or medium bark should be used for mature plants, while **Fine Dyna-Rok®** or bark is best for seedlings. The best time to repot is in the Spring and Summer.

Masdevallia: **Light and Temperature:** 1500 foot-candles-bright filtered light with no direct sun. The leaves should be medium green in color. Maintain a cooler environment with good air circulation and day temps of 70°-75° and nights around 50°. **Watering and Feeding:** Masdevallias should be kept moist at all times. Feed **Dyna-Gro™, Liquid Grow 7-9-5 at the rate of 1/4 tsp./gal. with each watering**. To promote flowering, **feed Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting**: Masdevallias should be repotted when the medium has broken down. New Zealand sphagnum moss, fine fir bark or **Fine Dyna-Rok®** should be used.



Paphiopedilum: **Light and Temperature: 600-2,000** foot-candles-bright filtered light with no direct sun. Mottled leaf or warm growing Paphs prefer a day temp with a maximum of 75°-80° and a night minimum of 50°-60°. Paphs vary widely by parentage so check with the grower for cultural requirements on specific varieties. **Watering and Feeding:** Paphs should be kept moist and not allowed to completely dry completely. Feed **Dyna-Gro™ Liquid Grow 7-9-5 at the rate of 1/4 tsp./gal. with each watering**. To promote flowering, **feed Dyna-Gro™ Liquid Bloom 3-12-6 or Mag-Pro™ 2-15-4 at the same rates and frequencies** beginning 4-5 weeks before flower spike initiation. Use **Pro-TeKt® at 1/4 to 1/2 tsp./gal. of water year round** to strengthen plants. **Repotting:** Paphs should be repotted at least every two years in a fine grade of fir bark or **Fine Dyna-Rok®**. They prefer to be somewhat crowded in the pot, so do not over pot.

Note: When repotting all orchids, **Dyna-Gro™ Liquid Bloom, K-L-N, The Rooting Solution™ and Pro-TeKt, The Silicon Solution®,** should be used to promote new root growth to quickly acclimate the plant to the new medium. **Dyna-Rok®** used for repotting should be prepared in advance. Rinse the **Dyna-Rok®** to remove excess dust and residue. Soak the **Dyna-Rok®** in a bucket of water that has **1 tsp**. **of Dyna-Gro™ Liquid Bloom** and **1/2 tsp. of Pro-TeKt, The Silicon Solution® added to each gallon of water.** Add one Tbl. of **K-L-N™ Rooting Solution** to the soak water to promote rooting. Allow to soak for a few hours or overnight if possible. The addition of soluble silicon helps reduce stress to the plant during transplanting and reduce losses to fungus and dehydration, while the **Dyna-Gro™ Liquid Bloom** provides nutrition for the growing plant and helps to neutralize residual lime used in the manufacturing process of the **Dyna-Rok®**. Fresh **orchid bark should be soaked in a similar solution for two to three days** prior to repotting to prevent the bark from dehydrating the plant.