

TradeWinds Hibiscus have a well-earned reputation for their better pot plant habits, attractive foliage, abundant flowers in many beautiful colors, and reduced bud drop compared to earlier varieties.

Tropical hibiscus are energy driven. They require high light and warm temperatures for fastest crop times and full, quality pot plants. **Northern, North-western, Middle Atlantic, Midwestern and Canadian growers** should start production in March through June for best results. **Southern, South-western and Southern California growers** can mostly produce year-round with their higher light and temperature.

### Uses

TradeWinds Hibiscus liners can be used to produce 4½", 6", 8", 10" or 12" pots for use as house plants or as flowering plants for patios, window boxes and landscape applications. Although TradeWinds Hibiscus are not winter hardy in Northern or Midwestern climates, they will thrive outdoors in southern locations where winter temperatures rarely drop below 50°F.

### Clean Start

TradeWinds Hibiscus liners and Quick Starts are produced from virus-indexed stock for healthier cuttings, faster growth and less crop time. No growth regulators have been applied, so you get quicker take off, fuller growth and more branches.

### General Culture

The production process is similar for liners, Pinch 'n' Go and Quick Starts except for planting.



#### Planting 1- & 2-cutting liners:

Remove Oasis liners from the holding strip by pushing up from the bottom. Plant just deep enough to cover the surface of the Oasis liners with media. Water thoroughly, and apply water directly to the Oasis liners to keep them wet until new roots are established. Monitor dryness of the liners for 3 to 4 days after planting.

**Planting Pinch 'n' Go and Quick Starts:** If they are to be "bumped up" from their 4.5-inch pots to larger containers, plant no deeper than the top of the media in the pot.

**Root Medium and Irrigation:** Use a well-aerated mix but be sure that sufficient moisture can be retained since **plants should never be allowed to wilt**. Wilting will cause leaf yellowing and loss as well as flower bud drop. Most commercial

root media should be satisfactory. Soilless root media pH should be 5.5 to 6.2. As with all potted plants, water quality (e.g., alkalinity, nutrient content, etc.) should be known to evaluate the potential effects on plant nutrient

**Fertilization:** To get plants off to a fast start and maximize breaking action, start off with a constant feed of 300-400 ppm nitrogen for one to two weeks, then cut back to 200 ppm. Use a complete fertilizer which has the majority of nitrogen as the nitrate form and contains extra micronutrients as in the "Peat-Lite Specials". Example formulas are 20-10-20, 15-11-29, 15-16-17, 20-19-18, etc. During periods of rapid growth, 400 ppm nitrogen may be needed to maintain proper leaf color. Plants may also benefit from drench applications of epsom salts (magnesium sulfate) at 8 oz. per 100

gal. every 6 weeks to prevent lower leaf interveinal chlorosis. Chlorosis on upper leaves can occur because of iron deficiency caused by poor roots, low iron supply or too high a pH. Water-soluble iron products such as Iron Sequestrene or Sprint 138 can be used as instructed to alleviate iron deficiency if roots are healthy.

**Light and Temperature:** These two cultural factors greatly affect plant size and production timing. **TradeWinds Hibiscus require maximum available light with 65°F to 70°F night temperature and 75°F to 85°F day temperature for fastest production and best quality.** Lower temperatures will seriously delay and stunt plant growth. Low light results in fewer branches, fewer flowers, stretched plants and longer crop time. Bud development will not occur at temperatures below 55°F, and chilling injury can occur if temperatures drop below 50°F for an extended period of time. Leaves become white then brown then black. If roots are healthy, new shoots will regrow. Cut back injured stems to promote new growth.

**Pinching and Early Bud Removal:** Pinching is used to create rounded, bushy plants. The number of pinches depends on the container size, number of plants and desired plant size. The first pinch is made when plants are established, usually 10 to 17 days after planting. Pinches should be made in semi-hard wood for optimum breaking action. Soft new growth should be removed. Pinching into soft wood reduces breaking action and encourages premature budding. Pinching into hard wood results in woody stems and poor breaking action. **Do not make pinches into harder stem tissue** unless needed to control unruly shoots since this will decrease branching and flowering.

To create a well-rounded plant, pinches should be made whenever plant height exceeds plant width.

Under ideal growing conditions there will be 3 to 4 weeks between pinches. This time will be greatly extended under lower light and temperature. The final pinch should be given 9 to 12 weeks prior to sale.

Sometimes premature buds may be seen during the beginning of forcing on TradeWinds Hibiscus liners and Quick Starts. If buds occur, simply remove these buds from leaf axils for the first 3 to 4 weeks after forcing begins, to focus the plant's energy into growth instead of flower development.

**Spacing:** Plants can be kept nearly pot-to-pot until the final pinch is given as long as leaves from adjacent plants do not overlap. Final spacing should be given right after the last pinch. Refer to the Scheduling section for spacing guidelines.

**Growth Regulators:** Under good growing conditions, plants may stretch excessively between pinches or after the final pinch, and will require growth regulators to control this stretch. Cycocel and Bonzi are both labeled for use on Hibiscus. Cycocel is more commonly used since it controls height and also helps provide uniform bud set. Bonzi is useful to control runaway stretch but it does not have the bud promotion characteristic of Cycocel.

In general, a Cycocel spray of 460 ppm (½ oz. per gal.) is applied when new shoots after each pinch are 1" to 2" long. After the final pinch, the above Cycocel spray can be applied every 2 weeks to control height if needed. Sprays can be continued until flower buds are approximately pea size.

Plants grown in 4½ inch pots will require growth regulators.

### **Pest Control**

#### **Whiteflies:**

- Distance EC @ 6 to 8 oz./100 gal (eggs, nymphs, sterilizes adults).
- Endosulfan WP @ 16 oz/100 gal

(adults).

- Flagship 25 WG @ 2 to 4 oz./100 gal. (nymphs, adults).
- Marathon G @ 1.3 grams/6" pot or
- Marathon 60 WP applied as a sprench (a heavy spray with runoff onto the soil). Marathon II can also be used. See product labels for precise application directions. **Best used on young plants that are actively growing. (adults,nymphs).**
- Orthene TTO 75% @ 10.5 oz/100 gal. **mixed with** Tame EC @ 10 oz/100 gal. (adults, nymphs).
- Talstar GH @ 20 oz/100 gal.(adults)
- Talstar GH @ 16 oz/100 gal. **mixed with** Azatin EC @ 12 oz/100 gal. for added nymph control. (adults, nymphs)
- Tristar 70 WSP @ 2 to 4 packets/ 100 gal. (eggs, nymphs, adults).

#### **Aphids:**

- Decathlon WP @ 1.9 oz/100 gal.
- Dursban 50W @ 8oz/100 gal.
- Endosulfan WP @ 16 oz/100 gal.
- Flagship 25 WG @ 2 to 4 oz./100 gal.
- M-Pede soap @ 128 to 256 oz/100 gal.
- Marathon G @ 1.3 grams/6" pot
- Orthene TTO 75% @ 10.5 oz/100 gal.
- Talstar GH @ 20 oz/100 gal.
- Tristar 70 WSP @ 1 to 2 packets/100 gal.

#### **Spider Mites:**

- Avid EC @ 8 oz/100 gal.
- Floramite @ 4 oz/100 gal.
- M-Pede soap @ 128 oz/100 gal.
- Pylon @ 3 to 4 oz/100 gal.
- Tetrasan @ 6 to 16 oz./100 gal.

There are few disease problems on TradeWinds Everblooming Hibiscus.

Avoid overhead watering to prevent occasional bacterial or fungal leaf spot diseases.

Basal stem and root rot from Phytophthora can be a problem. Chipco Aliette, Heritage, or Subdue MAXX drenches after planting are useful in controlling this fungal disease. Please note that there are some reports of Phytophthora

resistance to Subdue MAXX. *Before using any pesticides, be sure that they are registered for use in your state. Check with your local county extension agent or state university extension service. See label for use rates and application methods. Always follow label directions since the label is the law.*

### Care and Handling

TradeWinds Everblooming Hibiscus should be sold when 2 to 3 flower buds show color. The largest buds will open in 1 to 3 days. Storage and shipping temperatures should be between 50°F and 60°F. Recommended grades and standards for hibiscus are given in the FMA/SAF publication

Recommended Grades and Standards for Potted Plants.

### A Homescaper® Product

Tropical hibiscus can be enjoyed indoors and outdoors. However, they are only winter hardy in the more southern parts of the U.S. where outdoor temperatures rarely drop below 50°F.

## Ordering Information

	1- 2-cutting liners	4½" Quick Starts & 4½" Pinch 'n' Go
<b>Available:</b>	Year-Round	Year-Round
<b>Product Specs:</b>	stick 1 guarantee 1; stick 2 guarantee 2  Shipping height 4-8" Overall height 6-10" (overall height includes container height- pot-tray) Unpinched	stick 4 guarantee 3 <b>Quick Start:</b> 1 pinch 1-2 weeks before shipping  <b>Pinch 'n' Go:</b> 1 pinch, ship immediately ½" (approx) breaks
<b>Lead Time:</b>	Propagated to order (Subject to the availability of unrooted cuttings)	Propagated to order (Subject to the availability of unrooted cuttings)
<b>Pack:</b>	96/case	15 4½" pots/case
<b>Order:</b>	By variety 48 per variety Minimum order - 96	By variety 15 per variety Minimum order - 150
<b>Box Size:</b>	25"x15"x9" = 2.0 cubes 20# actual 18# dim	23"x14"x12.5" = 2.3 cubes 13# actual 21# dim
<b>Shipped:</b>	FOB: Alva, FL	FOB: Alva, FL

## Scheduling

### 1-and 2-Cutting Oasis Liner

Lowest cost to meet lower price points; e.g., 4½" pots. Crop time is the same for 1- and 2-cutting liners, except 1-cutting liners will produce a somewhat smaller finished pot.

Works best in higher light and temperature environments

Needs one extra pinch in larger pots compared to 3-Cutting Liner

	4½" pots 6" - 8" centers	6½" pots 10" - 12" centers
Liners per pot	1	1
# Pinches*	1	2
Weeks pinch to flower	9-12	9-12
Crop time**	11-14 weeks	15-18 weeks

\*First pinch 10 to 17 days after planting; subsequent pinches every 3 to 4 weeks if desired for fuller pots.

\*\*Longer crop times with more pinches, lower temperature or lower light.

continued>>>

## Quick Start & Pinch 'n' Go Plants

Jump-started for faster finish in specimen pots. Let us do most of the work for you!

**Quick Starts** are pinched 1 to 2 weeks before shipping and breaks will be emerging. Thus a shorter crop time than Pinch 'n' Go.

**Pinch 'n' Go** plants are pinched and shipped immediately. *Add 1 to 2 weeks to the Quick Start crop time below due to later pinching.*

### Quick Start Schedule

	8" pots 14" - 16" centers	10" pots 20" - 24" centers	12" pots 24" centers
Liners per pot	1	2	2
# Pinches*	0	0	1
Weeks pinch to flower	9-12	9-12	9-12
Crop time**	9-12 weeks	9-12 weeks	13-16 weeks

\*Has already been pinched. Pinch again in 1 to 2 weeks if desired for fuller pots.

\*\*Longer crop times with more pinches, lower temperature or lower light.

## Hibiscus Varieties by Color

All varieties can be used in 6" or larger pots.

\* These varieties can also be grown in 4½" pots with the use of PGR.

### **RED**

Baja Breeze\*  
Brilliant Red  
Starry Wind\*  
Antigua Wind  
Key West Wind  
Tonga Wind\*  
Tortuga ind\*  
Trinidad Wind\*

### **WHITE**

Cool Wind\*  
Tobago Wind

### **YELLOW**

Bonaire Wind\*  
Aruba Wind (Yel/Or)  
Sunny Wind

### **ORANGE**

Carolina Breeze\*  
Mandarin Wind  
Montego Wind\*  
Nassau Wind\*

### **PINK**

Pink Versicolor\*  
Cayman Wind  
Samoa Wind\*  
San Andreas Wind\*  
Tye-Dye Wind\*

New varieties have been bred for vigor for 6" pots or larger, yet some of them can be grown in 4½" pots. Besides vigor, other traits to consider when making recommendations for small pots are good breaking action, faster budding (more reproductive) and responsiveness to PGR's which can vary by variety.



**Green Leaf Plants®**  
2369 Old Philadelphia Pike  
Lancaster, PA 17602  
p: 800.321.9573 / 717.299.0300  
f: 717.299.7162  
e: [perennials@GLplants.com](mailto:perennials@GLplants.com)  
w: [GLplants.com](http://GLplants.com)

Prepared by  
Green Leaf Plants®  
Technical Services

**Limitation of Warranty:** Information provided is a guideline. It is considered to be true and accurate and is offered for your consideration, investigation and verification, but Aris does not warrant the results to be obtained, as this can vary depending upon your location and cultural practices. © Green Leaf Plants®, A Division of Aris Horticulture, Inc. 2011 11073 05/18/11 Litho in U.S.A.