

# Cambistat<sup>®</sup>

Trimtect is a foliar-applied shrub growth regulator that will reduce trimming and other maintenance costs. Trimtect extends trimming cycles and increases pruning efficiency.

| Active Ingredient:   | By Wt        |
|--|--------------|
| Paclobutrazol: (R*, R*)-(±)-β-[(4-chlorophenyl) Methyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol..... | 22.3%        |
| <b>Other Ingredients:</b> .....  | <b>77.7%</b> |
| <b>Total:</b> .....  | <b>100%</b>  |

**NET CONTENTS:** ½ gallon (1.89 L) 2L (67.6 fl oz)  
 1 gallon (3.78 L) 2.5 gallons (9.5 L)  
 5 gallons (18.9 L)

Contains 2 lbs. active ingredient per gallon

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Side/Back Panel for Additional Precautionary Statements, First Aid and Directions for Use

EPA Reg. No. 74779-3

EPA Est. No. 63416-MN-001

| FIRST AID  |  |
|--|--|
| <b>IF INHALED</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>  |
| <b>IF SWALLOWED:</b>   | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>IF ON SKIN OR CLOTHING</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>IF IN EYES:</b>   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>Have the product container or label with you when calling a poison control center or doctor or going for treatment.</b>   |  |
| <b>HOT LINE NUMBER</b>   |  |
| For 24-Hour Medical Emergency Assistance (Human or Animal), or Chemical Emergency Assistance (Spill, Leak, or Accident).<br>Call CHEMTREC at <b>1-800-424-9300</b> . |  |

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt, long pants, socks, shoes and gloves. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any water proof material
- Shoes plus socks.

Applicators and other handlers are also recommended to wear protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Distributed for:



**Rainbow Treecare Scientific Advancements**

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1-877-ARBORIST

1-877-272-6747

www.treecarescience.com

## USER SAFETY RECOMMENDATIONS

### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR LESS THAN OPTIMAL GROWTH REDUCTION.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### General Information

Cambistat™ is a plant growth regulator that slows the vegetative growth of plants by inhibiting gibberellin biosynthesis. Cambistat™ is designed to gently and predictably slow the growth of trees. A single application provides a long lasting reduction of vegetative growth, effectively extending the trimming cycle of trees and reducing the amount of woody growth that must be removed. In addition, use of Cambistat™ may cause other plant growth effects that are beneficial for trees such as increased root density, improved drought and heat resistance, and higher tolerance to insects and diseases. Cambistat will also benefit trees that are too large for their growing site and increase the longevity of trees growing in stressful environments. Cambistat™ may be applied by soil injection or basal soil drench.

Cambistat™ may be used on utility rights-of-way, residential areas, urban areas, and other non-crop areas.

### Indications of Tree Response:

Cambistat™ is readily absorbed by plant roots and is translocated to the actively growing points. Initially, an intense greening of the foliage may occur in response to Cambistat™ treatment. Long-term effects include: shortened internodes and smaller, thicker leaves. Visible results may be seen in as little as 2 months but measurable growth reduction may take as long as a year to occur.

### General Use Precautions

- Apply at recommended rates and follow safety precautions.
- Non-fruit or nut bearing trees that are not specified on this label may be treated if all other label directions are followed.
- The degree and duration of Cambistat™ applications can be affected by local soil and environmental conditions. Carefully read and follow label instructions to ensure effectiveness.
- Retreat every 3 years or wait until the effects from the previous application subside.
- Heavily compacted soils around trees may need to be vertical mulched, aerated or receive other remedial soil compaction treatments for Cambistat™ to effectively promote root growth.
- Localized stunting or injury of turfgrass or other non-target plants immediately adjacent to the treatment site may occur if Cambistat flows off of the application site.
- Avoid Cambistat™ basal drench applications on inclines and other areas where treated soil is likely to be washed away from the base of the tree by rainfall or irrigation.

- Shrubs and/or herbaceous ornamentals next to treated trees may be affected if their roots extend into the treatment zone.
- Do not treat sugar maple trees that will be tapped for sugar within one year.
- Do not treat fruit or nut trees that will be harvested within one year.
- Do not treat severely stressed trees or trees in rapid decline.
- Do not apply Cambistat™ through any irrigation system.

## DOSING

It is important to apply the proper dose to the tree you are treating. Use the following steps to determine the required dose:

- 1) Correctly identify the tree species.
- 2) Measure tree diameter at breast height (DBH). (See determining DBH)
- 3) Locate the correct dosage rate category for your species (See tables 2 and 3).
- 4) Locate the amount of material to use based on the category and DBH of your species (See tables 4 and 5).
- 5) Determine if any rate reductions are necessary (See Dosage Reduction Considerations).

## DETERMINING DBH

**Single Stem:** Measure the standard DBH of the tree at 4' 6" above the soil.

**Multiple Individual Trees Growing in Close Proximity:** For trees that have grown close together, measure the DBH of each stem and treat each tree individually. You may need to make rate reductions due to the overlapping canopies (See Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

**Multi-stem Split Below DBH:** For a tree that has multiple stems splitting below DBH, measure the tree at the narrowest point between the root flare and the split.

**Stem Clusters:** For trees that are grown too close together to be treated as individual trees, measure the DBH of each stem and add the measurements together. You may need to make rate reductions due to overlapping canopies (see Dosage Reduction Considerations). Also, because of close proximity of trees, it may be necessary to apply Cambistat to outer perimeter of clumped trees.

**Tree Splits at DBH:** For a tree that splits into two or more stems at DBH, measure and add the diameter of the stems and measure the narrowest point below the split. Take the average of these values.

## DOSAGE REDUCTION CONSIDERATIONS

**Canopy Missing:** Look at the canopy of the tree and compare it to a "normal" canopy for that trunk diameter. For example, if a tree is missing large branches from storm damage or utility line clearance pruning it is necessary to estimate the percentage of canopy missing and subtract this percentage from the dosage amount. i.e. subtract 30% from dosage if 30% is missing from the canopy.

**Canopy Suppression:** Trees growing in close proximity to other trees, multi-stemmed trees, and trees growing in clusters may have overlapping canopies. Your judgment is required to compare the canopies of these trees to the "normal" canopy for trees with similar trunk diameter. It may be necessary to reduce the dosage amount based on the percent of suppression and canopy overlap.

**Stressed or Declining Trees:** Dosage rates for trees that have lost canopy from construction damage, storm damage, insects, disease, girdling roots and/or other types of stress must be reduced to minimize the risk of over-regulation. A full dose of Cambistat applied to a tree with small, thin, or declining canopy may result in smaller leaves and a sparse canopy.

- Reduce the dosage rate on highly stressed trees by 25% or more
- Trees that show significant stress and are in rapid decline are NOT good candidates for treatment.
- For stressed trees, consider that additional canopy may decline before treatment response begins so you may need to reduce the dose by more than what is presently missing.

Trees with Confined or Compromised Root Systems: Trees in sidewalk boxes, above ground planters, and new transplants may absorb Cambistat from the treatment area in a higher proportion than a tree with a full root system. Reduce the dosage rate by 25% or more.

#### MIXING PROCEDURE

Dilute 1 part Cambistat with 11 parts water. To make a large Ready to use solution, combine 1 quart of Cambistat with 11 quarts of water to make 3 gallons of solution. See table 1 for additional examples. When mixing large amounts of Cambistat, mix only the amount that will be used within that day. Cambistat is best applied with equipment that has constant agitation.

**Table 1: Examples of the volumes of Cambistat and Water needed to make Ready-to-Use solution.**

| Volume of Cambistat | Volume of Water | Makes      |
|---------------------|-----------------|------------|
| 1 qt                | 11 quarters     | 3 gallons  |
| 1 gallon            | 11 gallons      | 12 gallons |
| 4 gallons           | 44 gallons      | 48 gallons |

If applying mixture to compacted soils, high clay content soils, or other hard-to-wet soils, use a nonionic, organosilicone wetting agent (surfactant) to increase penetration of the soil. Mix approximately ½ ounce surfactant per 3 gallons or 1 pint surfactant per 100 gallons. Follow all label directions and precautions on the surfactant product label.

#### APPLICATION METHODS

##### Soil Injection

Inject the Ready to Use solution approximately 2-6 inches deep at 50-200 psi using the volumes in Table 5. Orient injection orifices to release the diluted product horizontally at the point of injection. Divide the required dose evenly among injection sites spaced as uniformly as possible around the base of the tree.

As an example, if you are using the HTI 2000 soil injector, the standard injection volume per site is 250 mls. You will divide the total dose a tree requires by 250 mls to determine the number of injection sites. If the number of injection sites is a fraction, for example, you have a 12 inch tree in the B category. The total dose for the tree is 1200 ml of diluted solution. Dividing 1200 ml by 250 mls/injection site = 4.8 injection sites. In this case, you will inject 4 locations with 250 mls each and a 5th injection sites with 200 mls (see table 6 for partial hole volumes). This will deliver the total dose of 1200 mls for the tree.

Position the injection sites to release the diluted Cambistat™ as close as possible to the point of contact between the soil and the tree beneath the soil so that the solution is readily absorbed by the tree (Figure 1). Locate injection sites next to buttress roots (Figure 1). For trees less than 6 inches DBH, use at least 4 injection sites evenly spaced around the tree.

##### Soil Basal Drench

Carefully dig a shallow furrow 2 – 6 inches deep around the base of the tree. If treating an individual tree, use the volumes determined in Table 4. If treating multiple trees, a Ready-To-Use solution can be created by using the volumes in Table 5. Carefully pour the Ready-To-Use solution evenly around the tree into the furrow using an applicator that provides a controlled flow. Make the application at the point of contact between the soil and the tree trunk (Figure 2). After the diluted product has been absorbed by the soil, refill the furrow with untreated soil. Note: If making an application on a slope, a soil dam may be created to contain the application within the furrow.

#### APPLICATION TIMING

For a more manicured look, apply Cambistat™ to trees 30 to 180 days before they are pruned. To allow some regrowth and a more natural look, apply Cambistat™ at the time of pruning.

Soil applications can be made throughout the year, except when the soil is frozen or saturated with water. Note: When applied to the soil, Cambistat™ is absorbed by tree roots and translocated to the growing points (sub-apical meristems) in response to evaporative water loss (transpiration). If applications are made after leaf drop, uptake of Cambistat™ will not occur until development of new leaves and resumption of transpiration.

**For questions, contact Rainbow Treecare Scientific Advancements at 877-272-6747.**

**Table 2: LANDSCAPE APPLICATION Tree reference list and dosage rates.**

| Species                | Category | Species                      | Category | Species                        | Category |
|------------------------|----------|------------------------------|----------|--------------------------------|----------|
| Acacia                 | F        | Hickory                      | E        | Olive - Black                  | F        |
| Ailanthus              | D        | Holly - American             | E        | Olive - European               | E        |
| Alder                  | F        | Holly – Nellie Stevens       | E        | Olive - Russian                | E        |
| Anaqua                 | E        | Holly - Yaupon               | B        | Orchid Tree - Hong Kong        | C        |
| Arborvitae             | F        | Horsechestnut                | C        | Osage Orange                   | F        |
| Ash                    | F        | Huisache                     | E        | Palms                          | F        |
| Aspen                  | F        | Ironwood / Hornbeam          | D        | Paloverde                      | E        |
| Australian Bottle      | C        | Jacaranda                    | F        | Paulownia                      | E        |
| Australian Pine        | A        | Japanese Tree Lilac          | E        | Pear - Ornamental              | F        |
| Bald Cypress           | F        | Juniper                      | F        | Pecan                          | E        |
| Banyan - Ficus         | F        | Katsura - Japanese           | A        | Persimmon                      | C        |
| Basswood, American     | A        | Larch                        | F        | Photinia                       | E        |
| Baytree                | E        | Laurel                       | F        | Pines*                         | F        |
| Beech                  | E        | Leyland Cypress              | F        | Plum - Ornamental              | E        |
| Birch                  | F        | Linden                       | A        | Poinciana                      | F        |
| Bischofia              | F        | Locust - Black               | F        | Raintree - Golden              | F        |
| Black Gum / Tupelo     | B        | Locust - Honey               | E        | Redcedar - Eastern             | F        |
| Black Olive            | F        | Lombardy Poplar              | F        | Redwood                        | F        |
| Bottlebrush            | F        | Lysiloma                     | F        | Rosewood / Tipuana             | C        |
| Boxelder               | A        | Magnolia                     | F        | Russian Olive                  | E        |
| Buckeye                | D        | Mahogany                     | F        | Saltcedar                      | F        |
| Buttonwood             | F        | Maple - Amur                 | B        | Sassafrass                     | E        |
| California Pepper      | C        | Maple - Bigleaf              | D        | Sea Grape                      | E        |
| Camphor                | E        | Maple - Japanese (caution)** | A        | Soapberry                      | E        |
| Catalpa                | E        | Maple - Norway               | B        | Spruce*                        | F        |
| Cedar – Deodora        | E        | Maple - Red                  | B        | Sugarberry /Southern Hackberry | F        |
| Cedar - all others     | F        | Maple - Silver               | D        | Sumac - African                | E        |
| Cherry - Black         | F        | Maple - Sugar                | B        | Sycamore                       | F        |
| Cherry - Ornamental    | E        | Melaleuca                    | F        | Tabebuia                       | F        |
| Cherry - Laurel        | E        | Mesquite                     | F        | Tallow - Chinese               | F        |
| Chinaberry             | E        | Mimosa                       | E        | Tallowood                      | F        |
| Chinese Pistache       | E        | Mountain Ash                 | B        | Tamarisk                       | F        |
| Cottonwood*            | F        | Mulberry                     | F        | Tepeguaje                      | E        |
| Crabapple              | F        | Oak – Black                  | E        | Tulip / Yellow Poplar          | F        |
| Crape Myrtle           | B        | Oak – Blackjack              | E        | Tupelo / Black Gum             | B        |
| Cryptomeria            | F        | Oak – Bur                    | D        | Walnut                         | E        |
| Cypress                | B        | Oak - Laurel                 | F        | Waxmyrtle - Pacific            | F        |
| Ebony - Texas          | F        | Oak - Live - (<10")          | B        | Willow                         | F        |
| Elm - Cedar            | B        | Oak - Live (>10")            | E        | Xylosma                        | C        |
| Elm - Chinese/Lacebark | A        | Oak - Pin                    | E        | Yellow Poplar / Tulip          | F        |
| Elm - Siberian         | A        | Oak - Post                   | E        | Yew                            | F        |
| Elm - (all others)     | B        | Oak - Red                    | E        | Zelkova                        | B        |
| Eucalyptus             | F        | Oak - Sand Shinnery          | E        |                                |          |
| Ficus                  | F        | Oak - Scarlet                | E        |                                |          |
| Fir                    | F        | Oak - Shumard                | E        |                                |          |
| Ginkgo                 | F        | Oak - Valley                 | F        |                                |          |
| Gumbo Limbo            | F        | Oak - Water                  | E        |                                |          |
| Hackberry              | F        | Oak - White                  | D        |                                |          |
| Hawthorn               | C        | Oak - Willow                 | E        |                                |          |

**Call 877-ARBORIS(T) (877-272-6747) for questions.**

\*These species typically show less growth reduction compared to other species.

\*\*Japanese Maple can be easily over regulated, field reports suggest ½ A rate may be more appropriate.

**Table 3: RIGHTS-OF-WAY APPLICATIONS: Tree reference list and dosage rates.**

| Species                    | Category | Species                      | Category | Species                   | Category |
|----------------------------|----------|------------------------------|----------|---------------------------|----------|
| Acacia                     | F        | Hickory                      | E        | Oak - Willow              | E        |
| Ailanthus                  | D        | Holly - American             | E        | Oleander                  | C        |
| Alder                      | F        | Holly – Nellie Stevens       | E        | Olive - Black             | F        |
| Anaqua                     | E        | Holly - Yaupon               | B        | Olive - European          | E        |
| Arborvitae                 | F        | Hong Kong Orchid Tree        | C        | Olive - Russian           | E        |
| Ash                        | F        | Horsechestnut                | C        | Orchid Tree - Hong Kong   | C        |
| Aspen                      | F        | Huisache                     | E        | Osage Orange              | F        |
| Australian Bottle          | C        | Ironwood / Hornbeam          | D        | Palms                     | F        |
| Australian Pine            | B        | Jacaranda                    | F        | Paloverde                 | E        |
| Bald Cypress               | F        | Juniper                      | F        | Paulownia                 | E        |
| Banyan - Ficus             | F        | Katsura - Japanese           | B        | Pear - Ornamental         | F        |
| Basswood - American (>10") | B        | Larch                        | F        | Pecan                     | E        |
| Basswood - American (<10") | A        | Laurel                       | F        | Persimmon                 | C        |
| Baytree                    | E        | Lilac - Japanese             | E        | Photinia                  | E        |
| Beech                      | E        | Linden (>10")                | B        | Pines*                    | F        |
| Birch                      | F        | Linden (<10")                | A        | Plum - Ornamental         | E        |
| Bischofia                  | F        | Locust - Black               | F        | Poinciana                 | F        |
| Black Gum / Tupelo         | C        | Locust - Honey               | E        | Poplar - Lombardy         | F        |
| Bottlebrush                | F        | Lombardy Poplar              | F        | Raintree - Golden         | F        |
| Boxelder                   | B        | Lysiloma                     | F        | Redbud                    | A        |
| Buckeye                    | D        | Magnolia                     | F        | Redcedar - Eastern        | F        |
| Buttonwood                 | F        | Mahogany                     | F        | Redwood                   | F        |
| California Pepper          | C        | Maple - Amur                 | B        | Rosewood / Tipuana        | C        |
| Camphor                    | E        | Maple - Bigleaf              | E        | Saltcedar                 | F        |
| Catalpa                    | F        | Maple - Japanese (caution)** | A        | Sassafrass                | E        |
| Cedar – Deodora            | E        | Maple - Norway (>10")        | C        | Sea Grape                 | E        |
| Cedar - all others         | F        | Maple - Norway (<10")        | B        | Soapberry                 | E        |
| Cherry - Black             | F        | Maple - Red (>10")           | C        | Spruce*                   | F        |
| Cherry - Laurel            | E        | Maple - Red (<10")           | B        | Sugarberry /Southern      | F        |
| Cherry - all others        | E        | Maple - Silver (>10")        | D        | Hackberry                 | E        |
| Chinaberry                 | E        | Maple - Silver (<10")        | C        | Sumac - African           | A        |
| Chinese Pistache           | E        | Maple - Sugar (>10")         | C        | Sweetgum (Eastern US)     | B        |
| Cottonwood*                | F        | Maple - Sugar (<10")         | B        | Sweetgum (Western US)     | F        |
| Crabapple                  | F        | Melaleuca                    | F        | Sycamore                  | F        |
| Crape Myrtle               | C        | Mesquite                     | E        | Tabebuia                  | F        |
| Cryptomeria                | F        | Mimosa                       | E        | Tallow - Chinese Tamarisk | F        |
| Cypress - Leyland          | F        | Mountain Ash                 | B        | Tepeguaje                 | E        |
| Cypress - all others       | B        | Mulberry                     | F        | Tulip / Yellow Poplar     | F        |
| Dogwood - CAUTION**        | A        | Oak – Black                  | E        | Tupelo / Black Gum        | C        |
| Ebony - Texas              | F        | Oak – Blackjack              | E        | Walnut                    | E        |
| Elm - Cedar                | B        | Oak – Bur                    | D        | Waxmyrtle - Pacific       | F        |
| Elm - Chinese/Lacebark     | A        | Oak - Laurel                 | F        | Willow                    | F        |
| Elm - Siberian             | A        | Oak - Live (>10")            | E        | Xylosma                   | C        |
| Elm -all others (>10")     | C        | Oak - Live (<10")            | C        | Yellow Poplar / Tulip     | F        |
| Elm -all others (<10")     | B        | Oak - Pin                    | E        | Yew                       | F        |
| Eucalyptus                 | F        | Oak - Post                   | E        | Zelkova                   | B        |
| Ficus                      | F        | Oak - Red                    | E        |                           |          |
| Fir                        | F        | Oak - Sand Shinnery          | E        |                           |          |
| Ginkgo                     | F        | Oak - Scarlet                | E        |                           |          |

**Call 877-ARBORIS(T) (877-272-6747) for questions.**

\*These species typically show less growth reduction compared to other species.

\*\*Dogwood and Japanese Maples are very sensitive to Cambistat and can be easily over regulated, field reports suggest 1/2 A rate may be more appropriate.

**Table 4: Cambistat individual dose rate sheet. Mix the required volume of Cambistat with the required volume of water.**

| Dia. of Tree at Breast Height (DBH) (Inches) | Category A   |          | Category B   |          | Category C   |          | Category D   |          | Category E   |          | Category F   |          |
|--|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|
|  | ml Cambistat | ml water | ml Cambistat | ml water | ml Cambistat | ml water | ml Cambistat | ml water | ml Cambistat | ml water | ml Cambistat | ml water |
| 4  | 17           | 185      | 23           | 250      | 42           | 460      | 46           | 510      | 50           | 550      | 67           | 735      |
| 5  | 21           | 230      | 28           | 310      | 52           | 575      | 57           | 630      | 63           | 690      | 83           | 920      |
| 6  | 25           | 275      | 33           | 370      | 63           | 690      | 69           | 760      | 75           | 825      | 100          | 1100     |
| 7  | 44           | 480      | 58           | 645      | 73           | 805      | 80           | 885      | 88           | 965      | 117          | 1285     |
| 8  | 50           | 550      | 67           | 735      | 83           | 920      | 92           | 1000     | 100          | 1100     | 133          | 1470     |
| 9  | 56           | 620      | 75           | 825      | 94           | 1030     | 103          | 1135     | 113          | 1240     | 150          | 1650     |
| 10   | 63           | 690      | 83           | 920      | 104          | 1145     | 115          | 1260     | 125          | 1375     | 167          | 1835     |
| 11   | 69           | 755      | 92           | 1010     | 115          | 1260     | 126          | 1390     | 138          | 1515     | 183          | 2020     |
| 12   | 75           | 825      | 100          | 1100     | 125          | 1375     | 138          | 1515     | 150          | 1650     | 200          | 2200     |
| 13   | 81           | 900      | 108          | 1190     | 135          | 1490     | 149          | 1640     | 163          | 1790     | 217          | 2385     |
| 14   | 88           | 965      | 117          | 1285     | 146          | 1605     | 160          | 1765     | 175          | 1925     | 233          | 2570     |
| 15   | 94           | 1030     | 125          | 1375     | 156          | 1720     | 172          | 1895     | 188          | 2065     | 250          | 2750     |
| 16   | 100          | 1100     | 133          | 1470     | 167          | 1835     | 183          | 2020     | 200          | 2200     | 267          | 2935     |
| 17   | 106          | 1170     | 142          | 1560     | 177          | 1950     | 195          | 2145     | 213          | 2340     | 283          | 3120     |
| 18   | 113          | 1240     | 150          | 1650     | 188          | 2065     | 206          | 2270     | 225          | 2475     | 300          | 3300     |
| 19   | 119          | 1310     | 158          | 1745     | 198          | 2177     | 218          | 2395     | 238          | 2615     | 317          | 3485     |
| 20   | 125          | 1375     | 167          | 1835     | 208          | 2290     | 229          | 2520     | 250          | 2750     | 333          | 3670     |
| 21   | 131          | 1445     | 175          | 1925     | 219          | 2410     | 241          | 2650     | 263          | 2890     | 350          | 3850     |
| 22   | 138          | 1515     | 183          | 2020     | 229          | 2520     | 252          | 2775     | 275          | 3025     | 367          | 4035     |
| 23   | 144          | 1580     | 192          | 2110     | 240          | 2635     | 264          | 2900     | 288          | 3165     | 383          | 4220     |
| 24   | 150          | 1650     | 200          | 2200     | 250          | 2750     | 275          | 3025     | 300          | 3300     | 400          | 4400     |
| 25   | 156          | 1720     | 208          | 2295     | 260          | 2865     | 287          | 3150     | 313          | 3440     | 417          | 4585     |
| 26   | 162          | 1787     | 217          | 2385     | 271          | 2980     | 298          | 3277     | 325          | 3575     | 433          | 4765     |
| 27   | 169          | 1855     | 225          | 2475     | 281          | 3095     | 310          | 3400     | 338          | 3715     | 450          | 4950     |
| 28   | 175          | 1925     | 233          | 2570     | 292          | 3210     | 321          | 3530     | 350          | 3850     | 467          | 5135     |
| 29   | 181          | 1995     | 242          | 2660     | 302          | 3320     | 332          | 3660     | 363          | 3990     | 483          | 5320     |
| 30   | 188          | 2060     | 250          | 2750     | 313          | 3440     | 344          | 3780     | 375          | 4125     | 500          | 5500     |
| 31   | 194          | 2130     | 258          | 2840     | 323          | 3550     | 355          | 3910     | 388          | 4265     | 517          | 5685     |
| 32   | 200          | 2200     | 267          | 2930     | 333          | 3670     | 367          | 4035     | 400          | 4400     | 533          | 5870     |
| 33   | 206          | 2270     | 275          | 3025     | 345          | 3780     | 378          | 4160     | 413          | 4540     | 550          | 6050     |
| 34   | 213          | 2340     | 283          | 3120     | 354          | 3900     | 390          | 4285     | 425          | 4675     | 567          | 6235     |
| 35   | 219          | 2405     | 292          | 3210     | 365          | 4010     | 401          | 4410     | 438          | 4810     | 583          | 6415     |
| 36   | 225          | 2475     | 300          | 3300     | 375          | 4125     | 413          | 4540     | 450          | 4950     | 600          | 6600     |
| 37   | 231          | 2545     | 308          | 3390     | 386          | 4240     | 424          | 4664     | 463          | 5090     | 617          | 6780     |
| 38   | 238          | 2610     | 317          | 3480     | 396          | 4355     | 435          | 4790     | 475          | 5225     | 633          | 6970     |
| 39   | 244          | 2680     | 325          | 3575     | 406          | 4470     | 447          | 4915     | 488          | 5365     | 650          | 7150     |
| 40   | 250          | 2750     | 333          | 3670     | 417          | 4585     | 458          | 5040     | 500          | 5500     | 667          | 7335     |
| 41   | 256          | 2820     | 342          | 3760     | 427          | 4700     | 470          | 5168     | 513          | 5640     | 683          | 7520     |
| 42   | 263          | 2890     | 350          | 3850     | 438          | 4815     | 481          | 5295     | 525          | 5775     | 700          | 7700     |
| 43   | 269          | 2955     | 358          | 3940     | 448          | 4930     | 493          | 5420     | 538          | 5915     | 717          | 7885     |
| 44   | 275          | 3025     | 367          | 4035     | 458          | 5040     | 504          | 5545     | 550          | 6050     | 733          | 8065     |
| 45   | 281          | 3095     | 375          | 4125     | 469          | 5155     | 516          | 5670     | 563          | 6190     | 750          | 8250     |
| 46   | 288          | 3160     | 383          | 4220     | 479          | 5270     | 527          | 5800     | 575          | 6325     | 767          | 8435     |
| 47   | 294          | 3230     | 392          | 4310     | 490          | 5385     | 539          | 5924     | 588          | 6463     | 783          | 8615     |



**Table 5: Ready-To-Use (RTU) rate sheet and the number of soil injection holes needed (based on 250ml delivered per hole).  
Make a RTU solution by combining 11 parts of water with 1 part of Cambistat.**

| Dia. of Tree at Breast Height (DBH) (Inches) | Category A                  |                      | Category B                  |                      | Category C                  |                      | Category D                  |                      | Category E                  |                      | Category F                  |                      |
|--|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|-----------------------------|----------------------|
|  | mL of Ready-To-Use solution | # of injection sites | mL of Ready-To-Use solution | # of injection sites | mL of Ready-To-Use solution | # of injection sites | mL of Ready-To-Use solution | # of injection sites | mL of Ready-To-Use solution | # of injection sites | mL of Ready-To-Use solution | # of injection sites |
| 4  | 202*                        | BD**                 | 273*                        | BD**                 | 500                         | BD**                 | 550                         | BD**                 | 600                         | BD**                 | 800                         | 3.2                  |
| 5  | 251*                        | BD**                 | 338*                        | BD**                 | 625                         | BD**                 | 688                         | BD**                 | 750                         | 3                    | 1000                        | 4                    |
| 6  | 300*                        | BD**                 | 403*                        | BD**                 | 750                         | 3                    | 825                         | 3.3                  | 900                         | 3.6                  | 1200                        | 4.8                  |
| 7  | 525                         | BD**                 | 700                         | BD**                 | 875                         | 3.5                  | 963                         | 3.9                  | 1050                        | 4.2                  | 1400                        | 5.6                  |
| 8  | 600                         | BD**                 | 800                         | 3.2                  | 1000                        | 4                    | 1100                        | 4.4                  | 1200                        | 4.8                  | 1600                        | 6.4                  |
| 9  | 675                         | BD**                 | 900                         | 3.6                  | 1125                        | 4.5                  | 1238                        | 5                    | 1350                        | 5.4                  | 1800                        | 7.2                  |
| 10   | 750                         | 3                    | 1000                        | 4                    | 1250                        | 5                    | 1375                        | 5.5                  | 1500                        | 6                    | 2000                        | 8                    |
| 11   | 825                         | 3.3                  | 1100                        | 4.4                  | 1375                        | 5.5                  | 1513                        | 6.1                  | 1650                        | 6.6                  | 2200                        | 8.8                  |
| 12   | 900                         | 3.6                  | 1200                        | 4.8                  | 1500                        | 6                    | 1650                        | 6.6                  | 1800                        | 7.2                  | 2400                        | 9.6                  |
| 13   | 975                         | 3.9                  | 1300                        | 5.2                  | 1625                        | 6.5                  | 1788                        | 7.2                  | 1950                        | 7.8                  | 2600                        | 10.4                 |
| 14   | 1050                        | 4.2                  | 1400                        | 5.6                  | 1750                        | 7                    | 1925                        | 7.7                  | 2100                        | 8.4                  | 2800                        | 11.2                 |
| 15   | 1125                        | 4.5                  | 1500                        | 6                    | 1875                        | 7.5                  | 2063                        | 8.3                  | 2250                        | 9                    | 3000                        | 12                   |
| 16   | 1200                        | 4.8                  | 1600                        | 6.4                  | 2000                        | 8                    | 2200                        | 8.8                  | 2400                        | 9.6                  | 3200                        | 12.8                 |
| 17   | 1275                        | 5.1                  | 1700                        | 6.8                  | 2125                        | 8.5                  | 2338                        | 9.4                  | 2550                        | 10.2                 | 3400                        | 13.6                 |
| 18   | 1350                        | 5.4                  | 1800                        | 7.2                  | 2250                        | 9                    | 2475                        | 9.9                  | 2700                        | 10.8                 | 3600                        | 14.4                 |
| 19   | 1425                        | 5.7                  | 1900                        | 7.6                  | 2375                        | 9.5                  | 2613                        | 10.5                 | 2850                        | 11.4                 | 3800                        | 15.2                 |
| 20   | 1500                        | 6                    | 2000                        | 8                    | 2500                        | 10                   | 2750                        | 11                   | 3000                        | 12                   | 4000                        | 16                   |
| 21   | 1575                        | 6.3                  | 2100                        | 8.4                  | 2625                        | 10.5                 | 2888                        | 11.6                 | 3150                        | 12.6                 | 4200                        | 16.8                 |
| 22   | 1650                        | 6.6                  | 2200                        | 8.8                  | 2750                        | 11                   | 3025                        | 12.1                 | 3300                        | 13.2                 | 4400                        | 17.6                 |
| 23   | 1725                        | 6.9                  | 2300                        | 9.2                  | 2875                        | 11.5                 | 3163                        | 12.7                 | 3450                        | 13.8                 | 4600                        | 18.4                 |
| 24   | 1800                        | 7.2                  | 2400                        | 9.6                  | 3000                        | 12                   | 3300                        | 13.2                 | 3600                        | 14.4                 | 4800                        | 19.2                 |
| 25   | 1875                        | 7.5                  | 2500                        | 10                   | 3125                        | 12.5                 | 3438                        | 13.8                 | 3750                        | 15                   | 5000                        | 20                   |
| 26   | 1950                        | 7.8                  | 2600                        | 10.4                 | 3250                        | 13                   | 3575                        | 14.3                 | 3900                        | 15.6                 | 5200                        | 20.8                 |
| 27   | 2025                        | 8.1                  | 2700                        | 10.8                 | 3375                        | 13.5                 | 3713                        | 14.9                 | 4050                        | 16.2                 | 5400                        | 21.6                 |
| 28   | 2100                        | 8.4                  | 2800                        | 11.2                 | 3500                        | 14.0                 | 3850                        | 15.4                 | 4200                        | 16.8                 | 5600                        | 22.4                 |
| 29   | 2175                        | 8.7                  | 2900                        | 11.6                 | 3625                        | 14.5                 | 3988                        | 16                   | 4350                        | 17.4                 | 5800                        | 23.2                 |
| 30   | 2250                        | 9                    | 3000                        | 12                   | 3750                        | 15                   | 4125                        | 16.5                 | 4500                        | 18                   | 6000                        | 24                   |
| 31   | 2325                        | 9.3                  | 3100                        | 12.4                 | 3875                        | 15.5                 | 4263                        | 17.1                 | 4650                        | 18.6                 | 6200                        | 24.8                 |
| 32   | 2400                        | 9.6                  | 3200                        | 12.8                 | 4000                        | 16                   | 4400                        | 17.6                 | 4800                        | 19.2                 | 6400                        | 25.6                 |
| 33   | 2475                        | 9.9                  | 3300                        | 13.2                 | 4125                        | 16.5                 | 4538                        | 18.2                 | 4950                        | 19.8                 | 6600                        | 26.4                 |
| 34   | 2550                        | 10.2                 | 3400                        | 13.6                 | 4250                        | 17                   | 4675                        | 18.7                 | 5100                        | 20.4                 | 6800                        | 27.2                 |
| 35   | 2625                        | 10.5                 | 3500                        | 14                   | 4375                        | 17.5                 | 4813                        | 19.3                 | 5250                        | 21                   | 7000                        | 28                   |
| 36   | 2700                        | 10.8                 | 3600                        | 14.4                 | 4500                        | 18                   | 4950                        | 19.8                 | 5400                        | 21.6                 | 7200                        | 28.8                 |
| 37   | 2775                        | 11.1                 | 3700                        | 14.8                 | 4625                        | 18.5                 | 5088                        | 20.4                 | 5550                        | 22.2                 | 7400                        | 29.6                 |
| 38   | 2850                        | 11.4                 | 3800                        | 15.2                 | 4750                        | 19                   | 5225                        | 20.9                 | 5700                        | 22.8                 | 7600                        | 30.4                 |
| 39   | 2925                        | 11.7                 | 3900                        | 15.6                 | 4875                        | 19.5                 | 5363                        | 21.5                 | 5850                        | 23.4                 | 7800                        | 31.2                 |
| 40   | 3000                        | 12                   | 4000                        | 16                   | 5000                        | 20                   | 5500                        | 22                   | 6000                        | 24                   | 8000                        | 32                   |
| 41   | 3075                        | 12.3                 | 4100                        | 16.4                 | 5125                        | 20.5                 | 5638                        | 22.6                 | 6150                        | 24.6                 | 8200                        | 32.8                 |
| 42   | 3150                        | 12.6                 | 4200                        | 16.8                 | 5250                        | 21                   | 5775                        | 23.1                 | 6300                        | 25.2                 | 8400                        | 33.6                 |
| 43   | 3225                        | 12.9                 | 4300                        | 17.2                 | 5375                        | 21.5                 | 5913                        | 23.7                 | 6450                        | 25.8                 | 8600                        | 34.4                 |
| 44   | 3300                        | 13.2                 | 4400                        | 17.6                 | 5500                        | 22                   | 6050                        | 24.2                 | 6600                        | 26.4                 | 8800                        | 35.2                 |
| 45   | 3375                        | 13.5                 | 4500                        | 18                   | 5625                        | 22.5                 | 6188                        | 24.8                 | 6750                        | 27                   | 9000                        | 36                   |
| 46   | 3450                        | 13.8                 | 4600                        | 18.4                 | 5750                        | 23                   | 6325                        | 25.3                 | 6900                        | 27.6                 | 9200                        | 36.8                 |
| 47   | 3525                        | 14.1                 | 4700                        | 18.8                 | 5875                        | 23.5                 | 6463                        | 25.9                 | 7050                        | 28.2                 | 9400                        | 37.6                 |
| 48   | 3600                        | 14.4                 | 4800                        | 19.2                 | 6000                        | 24                   | 6600                        | 26.4                 | 7200                        | 28.8                 | 9600                        | 38.4                 |
| 49   | 3675                        | 14.7                 | 4900                        | 19.6                 | 6125                        | 24.5                 | 6738                        | 27                   | 7350                        | 29.4                 | 9800                        | 39.2                 |
| 50   | 3750                        | 15                   | 5000                        | 20                   | 6250                        | 25                   | 6875                        | 27.5                 | 7500                        | 30                   | 10000                       | 40                   |

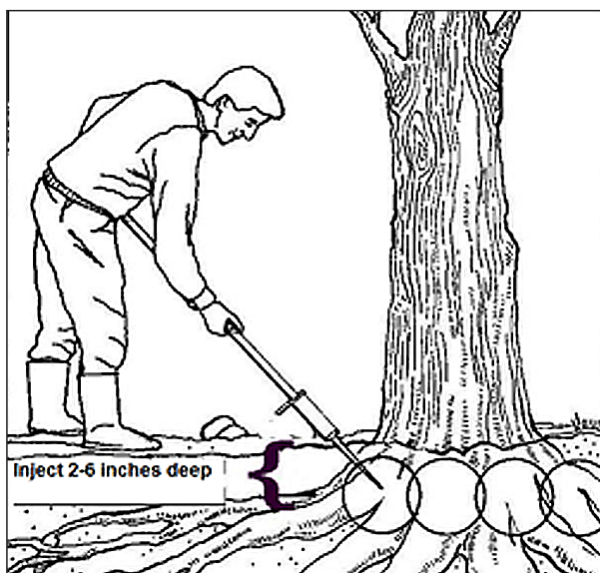
\*The dosage rate for this tree has been adjusted down due to sensitivity of small trees in this category.

\*\*Use the basal drench application method to apply Cambistat to trees of this size in this category.

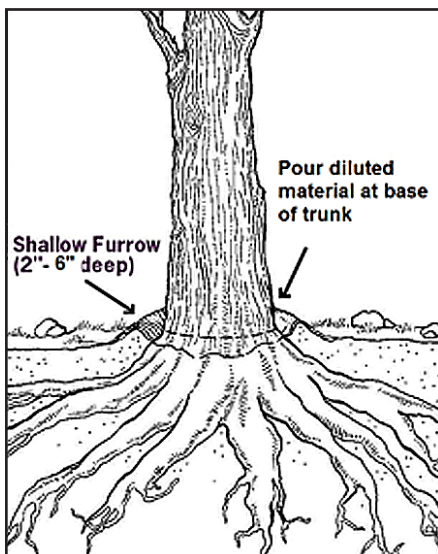
**Table 6: Partial hole volumes for soil injection (based on 250 ml delivered per hole)**

| Partial hole | Volume |
|--------------|--------|
| .1           | 25 ml  |
| .2           | 50 ml  |
| .3           | 75 ml  |
| .4           | 100 ml |
| .5           | 125 ml |
| .6           | 150 ml |
| .7           | 175 ml |
| .8           | 200 ml |
| .9           | 225 ml |

**Figure 1. Placement of Cambistat™ as a soil-injected treatment.**



**Figure 2. Placement of Cambistat™ as a basal drench.**



**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Pesticide Storage:** Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**Container Disposal:** Non-refillable container: Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(non-refillable <5 gallons) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**Notice:** Read the entire Directions For Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Follow the Directions For Use carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Tree injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or tree conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS or seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS and Seller harmless for any claims relating to such factors.

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Patent Pending  
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#### OPTIONAL MARKETING CLAIMS

Committed to advancing the science of tree care

Reduced [utility] line clearance costs [up to 60%]

Improved customer satisfaction through reduced trimming and healthier trees

Up to 40 to 90% reduction in regrowth [for 3 years]

Up to 90% growth reduction\* [\*on selected species]

One application lasts up to 3 years

Enhances tree roots by promoting fine root density

Promotes fine root density

Improves drought resistance

Improves heat resistance

Extends trim cycle time

Extends trim cycle

SCIENTIFIC ADVANCEMENTS

Ideal for use on fast-growing trees to reduce growth

Reduces growth of trim cycle-buster trees

Reduces hot-spotting costs

Reduces [utility] line interference outages and increases reliability.

Ideal for application on difficult to access trees [such as in backyards]

Helps trees [by increasing fine root density] [by reducing drought stress] [by slowing trunk and shoot growth of trees in confined areas]

One application lasts up to 3 years [- lasts up to 10 years on some species]

Ideal for use on critical [utility] feeder lines.

Ideal for zone management

Protects investment in boulevard and parking lot trees

Can increase tree longevity in stressful environments

Specially formulated for soil application around trees.

Tree Growth Regulator

[Plant] Growth regulator for trees

#### Growth Control Uses for Cambistat

- Short Clearances
- Difficult to access trees – backyards
- Zone 1 trees – immediately out of the substation
- Cycle busters – problem trees
- Critical feeder lines – hospitals, industry
- Complete circuits
- Complete System
- Municipal vista management trees
- Favorite trees – parks, schools, government
- Farmstead trees
- Concerned / difficult customers with right-of-way trees

