



Stewardship Plan

**Soil Culture Solutions, LLC (d/b/a Soilcea)
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Introduction:

Soilcea is committed to the responsible commercialization, stewardship, and long-term performance of CarriCea T1 (Patent Pending) through comprehensive propagation oversight, traceability systems, grower education, and stewardship compliance activities.

CarriCea T1 is a new citrus rootstock with improved resistance to Huanglongbing (HLB), also known as Citrus Greening that directly translates to Yellow Dragon Disease).

The purpose of this Stewardship Program is to:

- Preserve performance integrity and long-term trait performance
- Maintain chain-of-custody and traceability throughout propagation and commercial deployment
- Ensure propagation occurs only through authorized channels
- Support responsible commercial field deployment
- Monitor agronomic performance and stewardship compliance
- Establish reporting, corrective action, and continuous review procedures

Product Description:

CarriCea T1 works by making precise edits to the citrus tree's own existing genes — not by introducing DNA from other organisms. These edits disrupt the interaction between the citrus plant and the bacteria that cause greening, helping the tree limit infection on its own.

CarriCea T1 (Patent Pending):

- Carrizo rootstock with improved resistance to HLB
- Restores the tree's natural defenses
- Active ingredient is three (T for triple) precise CRISPR edits to ACD2, LLS1, and PLCP (See below label)
- Contains no foreign introduced pesticidal active ingredient
- Does not introduce a new exposure scenario or environmental interface beyond EPA-reviewed conditions
- Is intended for use as a citrus rootstock in commercial citrus production systems
- Is distributed through authorized stewardship-controlled channels only

Authorized Distribution & Propagation:**Authorized Entities**

CarriCea T1 may only be:

- Ordered from approved licensed nurseries with a scion grafted on it
- Approved Nurseries:

- Agromillora Florida
- Brite Leaf Citrus Nursery
- W.E. Green & Sons
- Southern Citrus Nursery
- Citrisun
- Propagations Unlimited
- Phillip Rucks Nursery
- Used in accordance with stewardship agreements and tree agreement

Unauthorized Use Restrictions

The following activities are prohibited unless expressly authorized:

- Propagation unless expressly authorized
- Redistribution of budwood or propagation material
- Export
- Experimental use outside approved stewardship programs and label
- Allowing rootstocks to grow or sprout to the point of flowering

CarriCea T1 Identification

All CarriCea T1 material shall be identifiable:

- Physical Tree Identification:
 - Rootstock Variety
 - Scion Variety
 - Propagation or grafting date
 - Nursery Source
 - Block Maps (Field Map)

Grower Stewardship:

Stewardship agreements

Growers are required to follow stewardship when receiving scions grafted on the CarriCea T1. Growers agree to:

- sign an agreement with Soilcea with additional terms and conditions;
- shall not allow the CarriCea T1 to ever flower.
- Shall regularly monitor, remove, and burn any CarriCea T1 suckers with notification provided to Soilcea
- provide Soilcea accurate account of number of scions grafted on CarriCea T1 ordered, number of CarriCea T1 planted, number of the CarriCea T1 removed, specific gps grove location of the CarriCea T1, and yield information from the scions grafted on the CarriCea T1;
- allow Soilcea and its representatives to enter any of its owned property, affiliated-owned property, occupied property, or leased land, greenhouses, and other premises used for citrus to inspect, to count scions grafted on the CarriCea T1, and

take reasonable samples of citrus leaves, branches, roots, and citrus fruit from any citrus trees with twenty-four hour written notification and during ordinary business hours to observe Recipient's agricultural practices;

- properly maintain scions grafted on the CarriCea T1 with regular watering, fertilizer, herbicide sprays, and pesticide sprays, and inspection/removal of rootstock sprouts.
- if the Grove is abandoned, burn the CarriCea T1
- restrict access to CarriCea T1;
- shall NOT reproduce the CarriCea T1 or use the CarriCea T1 or any part of the CarriCea T1 for any propagation purposes or plant breeding activity.
- Shall notify Soilcea of the sale or assignment of premises where the CarriCea T1 is grown/stored

Best Integrated Grove Management Practices

Growers are encouraged to:

- Maintain standard citrus nutrition programs
- Continued integrated pest management (IPM)
- Monitor for HLB symptomology and tree performance

Field Identification

Growers should maintain:

- All CarriCea T1 plants and confidential information adequately separate from any other citrus varieties and parties that recipient may interact with.
- Maintain tags on trees with CarriCea T1.
- Adequate means of separation between Soilcea's CarriCea T1 and confidential information and any other activities the grower may be involved in.
 - A separate block of only scions grafted on CarriCea T1 planted for resets in the same year will be deemed adequate separation.
- Restricted Distribution: grower is explicitly prohibited from providing the CarriCea T1 or confidential information to any person outside of their own organization.

Reporting of unexpected Observations

Authorized growers are expected to promptly report:

- Any HLB symptoms
- Significant decline patterns
- Propagation inconsistencies
- Unusual environmental observations
- Production performance concerns

Reports should be made to the stewardship contacts listed below and should include sufficient documentation to support stewardship review and evaluation activities. The

report should also include information regarding the planting date, management practices, which nursery the CarriCea T1 was propagated from, number of plants affected, and what symptoms they want to report. Following the report a Soilcea representative will gather information, and may collect samples to verify.

Continuous Stewardship Review:

Growers may be asked to allow Soilcea representatives to obtain samples of the CarriCea T1 and other citrus trees in order to assess continued resistance, as well as update best recommended management practices. Per the agreement, the Soilcea representatives should be granted access to any citrus grove or nursery within a 24 hour window during ordinary business hours.

Stewardship Contacts:

Soil Culture Solutions, LLC (d/b/a Soilcea)
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Nursery Stewardship Appendix

- Propagation Integrity & CarriCea T1 Segregation
- Inventory Tracking
- Personnel Training
- Sanitation Practices

Authorized Nursery Requirements:

Authorized nurseries handling CarriCea T1 shall:

- Maintain appropriate licensing and regulatory requirements
- Execute an agreement with Soilcea
- Restrict handling to trained personnel
- Agree to follow this Stewardship document
- Comply with the CarriCea T1 label (See below)
- Maintain traceability systems sufficient to track propagation and distribution activities

Propagation Integrity and Material Segregation:

Nurseries shall implement procedures to maintain propagation integrity and prevent CarriCea T1 commingling with other citrus trees.

Recommended Practices include:

- CarriCea T1 material may never be allowed to grow beyond the point of normal grafting of scions and never allowed to flower
- CarriCea T1 material grown beyond the point of grafting must be burned with documentation and notice to Soilcea
- CarriCea T1 material may never be propagated with only Agromillora and Agristarts doing increased propagations to be sold to other nurseries for grafting, growing, and delivery to nurseries
- Dedicated propagation benches or designated propagation areas that is a sufficient physical separation
- Controlled transfer procedures between propagation stages
- CarriCea T1 material identification markers
- Restricted personnel access
- All propagation activities shall be conducted using documented source material of the CarriCea T1 under controlled conditions designed to eliminate misidentification

Inventory Tracking:

All CarriCea T1 material shall be maintained under a traceable identification system. Each nursery lot shall be assigned a unique lot number and records shall identify the CarriCea T1 rootstock, scion variety, propagation and/or grafting date, nursery source, and production location. Physical tags, labels, bench markers, or equivalent nursery inventory systems may be used or provided material can be readily traced throughout production and distribution.

Nurseries shall maintain:

- Propagation records
- Source material documentation
- Inventory transfer records
- Shipment records
- Destruction/ disposal records
- Inventory reconciliation logs

Propagation records should include:

- Propagation date
- Propagation lot or batch number
- CarriCea T1 material transfers
- Personnel responsible for handling material

Shipment records should include:

- Recipient information
- Shipment date
- CarriCea T1 material quantity
- Associated lot identification
- Inventory reconciliation summaries should be maintained and made available to Soilcea upon request and at least quarterly.
- All records shall be maintained for a minimum of five (5) years

Personnel training

Personnel handling CarriCea T1 must receive annual training on:

- Stewardship requirements
- Traceability procedures
- Incident reporting
- Label/use restrictions

Sanitation practices

Standard citrus nursery sanitation procedures shall be followed, including:

- Tool sanitation
- Disease mitigation practices
- Controlled propagation handling

Compliance:

All CarriCea T1 rootstocks are required to be sold with the approved EPA label below.



PRODUCT LABEL

CarriCea T1

CarriCea T1 has been edited to provide a citrus rootstock variety with improved tolerance to Huanglongbing disease.

Active Ingredient(s):

Loss of Function Edit in Accelerated Cell Death 2 (ACD2) gene, gRNA, and SpCas9 protein and the genetic material necessary for their production in CarriCea T1

0.00103-0.00112%*

Loss of Function Edit in Lethal Leaf Spot 1 (LLS1) gene, gRNA, and SpCas9 protein and the genetic material necessary for their production in CarriCea T1

0.00103-0.00112%*

Loss of Function Edit in Papain-Like Cysteine Protease (PLCP) gene, gRNA, and SpCas9 protein and the genetic material necessary for their production in CarriCea T1

0.00103-0.00112%*

Other Ingredients:

Neomycin phosphotransferase (NPTII) enzyme and the genetic material necessary for its production in CarriCea T1

0.00020-0.00077%*

* Percentage of rootstock tissue on a dry wt. basis

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA Registration Number 103312-1
EPA Establishment No. 103312-FL-1
Soil Culture Solutions, LLC (d/b/a Soilcea)
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Directions for Use

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

Soil Culture Solutions, LLC (d/b/a Soilcea) will distribute CarriCea T1 for propagation to citrus nurseries for use only as a rootstock with restrictions to never let rootstock suckers grow and/or flower. One of the below listed scion Commodities must be grafted on the CarriCea T1 before being removed from an enclosed facility.

Crops:

Crop Group	Representative Commodities	Commodities
10-10. CITRUS FRUIT GROUP	Orange or tangerine/mandarin, lemon or lime and grapefruit	Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uniq fruit; cultivars, varieties, and/or hybrids of these

STORAGE AND DISPOSAL

STORAGE: Store in a place inaccessible to children. Do not contaminate water, food, or feed by storage or disposal.

DISPOSAL: Rootstock and trees taken out of production will be cut down after use. Devitalization will consist of cutting, allowing time for desiccating, followed by burning of wood and any vegetative material.

CONTAINER DISPOSAL: All packaging materials must be free of tree or plant material prior to reuse or destruction.