

**It's easy to spot A SAV-A-LAM BABY**

"Your product helped to save our lamb. Very easy to feed, smells wonderful, gave them the boost they needed." Donna from Kenbridge, VA\*

**sav-A-lam PRODUCTS**  
Received \$7 for sharing her story.

**HOBBY FARMERS REWARDS**

Member Login >  
FREE ENEWSLETTER

**HOBBY FARMERS**  
Grow & Sell  
FREE GIFT!  
25 Breeds TO RAISE WHERE YOU LIVE

SUBSCRIBE >

Subscriber Services >

- home
- resources
- publications
- online exclusives
- community
- hobby farms rewards
- my farm
- say cheese
- videos
- hobby farms blogs
- product spotlight
- about us

home > **crops & gardening**

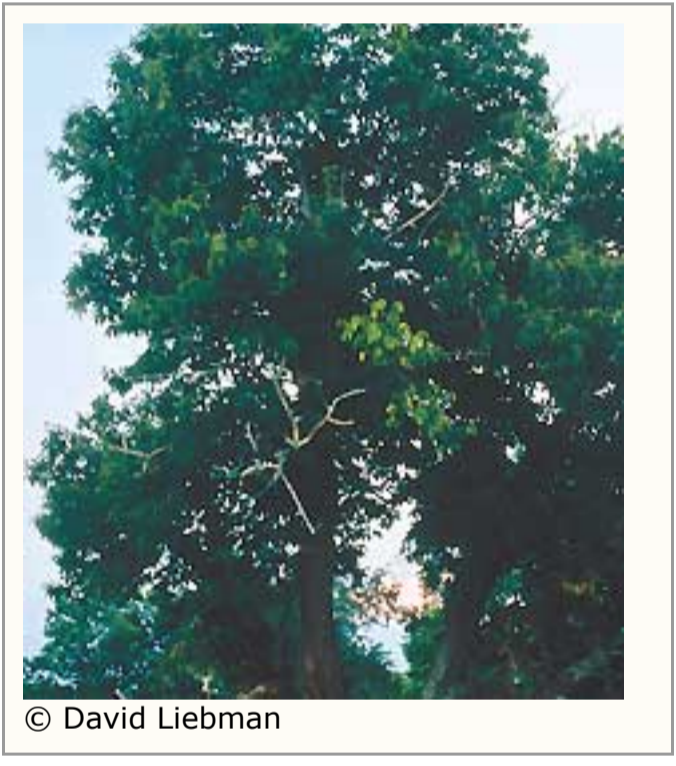
**Saving the American Chestnut Tree**

The American chestnut tree once blanketed the forests from Maine to Florida and beyond, but the species was wiped out by blight at the turn of the 20th century. Read on to learn what's being done to help restore the American Chestnut Tree.

Like 24 | Tweet 1 | G+1 | Pin it | + 6

By **Audrey Pavia**

The chestnut blight came to U.S. shores via Europe through the East Coast on Chinese chestnut trees and quickly attacked the genetically unprepared American chestnuts.



Chestnut blight is a fungus that spreads via spores in the air, in raindrops or on animals; it attacks open wounds on the tree and enters through an injury in the tree's bark.

The fungus spreads throughout the tree, killing tissue as it advances.

Eventually, the tree's metabolic system becomes choked off, unable to obtain nutrients. The tree eventually dies.

"There are between 100 million and 100 billion American chestnut sprouts growing in the native range [today], and most of these are blight free," says Frederick V. Hebard, Ph.D., staff pathologist at The American Chestnut Foundation's Meadowview research farms in Meadowview, Va.

"They temporarily escape blight because their blight-infected neighbors are too small to bear cankers that can give rise to more than one daughter canker per mother canker (the small cankers simply don't produce enough spores). Thus, blight incidence remains at a low level, and the chestnut sprouts can live to be more than 40 to 60 years old.

FROM THE PAGES OF:  
**HOBBYFARMERS**



"The sprouts remain small because they are in the shade of other species of trees," Hebard continues. "However, when that overstory is removed by cutting, windthrow or other disturbance, the chestnut sprouts start to grow very rapidly.

"The sprouts increase their rate of diameter growth from less than 0.5 mm per year to 5.0 mm per year, or more. The increased sunlight also induces them to flower, and it is those trees that we pollinate.

"However, as the sprouts increase in size, the cankers also increase in size. By 10

**Hot Topics**

- Once-a-Day Milk Cows
- Market Neighbors
- How to Splint Goat Legs
- Herbed Carrot Soup
- Cream of Asparagus Soup

**Advertiser Links**

**Product Spotlight**

Ho Newsletter

Your E-mail:  \* SEND >

Get the latest news, tips and free advice every month

**HOBBY FARMERS**

QUICK TO BETTER BEEKEEPING

Create an Indoor Permaculture Garden

Preview Current Issue >

**URBAN FARM**

GARDEN PREP Issue

10 Top Hottelooms for the New Year

Preview Current Issue >

**It's easy to spot AN ULTRA 24 BABY**

"Raised a litter of pigs when the sow got sick. The piglets never missed a beat and turned out great." Danny from Burbank, IL\*

**sav-A-caf**  
by FM Products

years after cutting, the cankers are 10 times larger on the larger sprouts, producing 10 times as many spores. This means they are giving rise to 10 times as many daughter cankers.

"After one year, each of these daughter cankers gives rise to 10 granddaughter cankers and there are now 100 times as many cankers; after two years, 1,000, and after three years, 10,000 times as many cankers. Soon, almost all the sprouts that had been escaping blight for years are killed by it. Most of the sprouts are as susceptible to blight as the original chestnut trees."

### Efforts to Save the Tree

The U.S. government first became aware of the scourge of the Chinese chestnut blight in 1904, and realized the fungus' potential to wipe out the American chestnut tree.

In an attempt to thwart the pest's destruction, the U.S. Department of Agriculture and the Connecticut Agricultural Experiment Station launched programs to breed a blight-resistant American chestnut tree.

Because of limited knowledge of genetics at the time, these attempts at creating a resistant tree did not prove successful. Trees that were able to fight off the blight, including the Chinese chestnut, did not possess the desired characteristics of the American chestnut, which include tall, straight growth and a high-quality wood.

Discontinued in 1960, the government program did however succeed in providing a basis for The American Chestnut Foundation's attack upon the blight.

In order to ward off the blight, American chestnuts must possess a genetic tendency toward resistance, a predisposition found in the Chinese chestnut, which only shows cosmetic damage when attacked by the fungus.

By combining the genes of these two trees, TACF is attempting to create a tree that will have all the attributes of the American chestnut, but will not be affected by blight.

The means to achieving this goal is backcross breeding, which calls for crossing resistant Chinese chestnut trees to American chestnut trees and then crossing back to native American three more times.

After the third backcross, the result is a tree that is only 1/16 Chinese and the rest American. Through intercrossing and further testing, scientists are able to determine which of these trees are highly resistant to the blight. The progeny of those trees that pass the test will be planted back in the forest.

### How Hobby Farmers Can Help

The American Chestnut Foundation has high hopes for its backcrossed American chestnut trees, and has future plans for reforestation in the tree's native range. This is where hobby farmers come in.

Currently, funds for research on the American chestnut tree come primarily from membership in the organization. Members receive a newsletter and are invited to attend TACF's annual meetings to hear first-hand about projects and meet scientists working in the field of chestnut research.

They are also encouraged to visit, tour and help out on the organization's research farms in Meadowview, Va., and have access to expert advice on growing chestnuts. Members are also permitted to purchase pure American chestnut seeds and seedlings through the organization.

Once the American chestnut is ready for reforestation, small farmers will be needed for a more hands-on approach, according to Dale Kolenberg, communications director for The American Chestnut Foundation.

"Farmers and other private land owners can get in touch with us to let us know they are interested in our reforestation efforts, and when we have our final product, help plant the blight-resistant trees," she says.

With the help of those dedicated to bringing the American chestnut to its former glory, The American Chestnut Foundation hopes to see this regal tree once again dominating Eastern forests. A combination of advancements in genetic research and a passion for this special tree may actually make this possible.

### About the Author

Audrey Pavia is a freelance writer living in Norco, Calif. She first learned of the plight of the American chestnut tree in Barbara Kingsolver's novel, *Prodigal Summer*.

### Concerned Organizations

#### The American Chestnut Foundation

469 Main Street  
P.O. Box 4044  
Bennington, VT 05201-4044  
(802) 447-0110  
[www.acf.org](http://www.acf.org)

#### Canadian Chestnut Council

c/o Mr. Charles Hooker  
R.R. #2  
Orangeville, ON, L9W 2Y9  
(519) 942-8085  
[www.uoguelph.ca/~chestnut](http://www.uoguelph.ca/~chestnut)



\*Received \$5 for sharing his story.

It's easy  
to spot

AN ULTRA 24  
BABY



"Raised a litter of pigs  
when the sow got sick.  
The piglets never  
missed a beat and  
turned out great."

Danny from Burbank, IL\*



sav-A-caf  
PI HSB Products

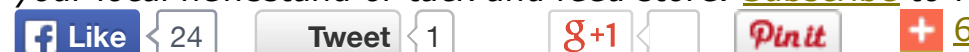
\*Received \$5 for sharing his story.

facebook  
become a fan ▶

Visit  
HorseChannel.com  
CLICK HERE



This article first appeared in the March/April 2004 issue of Hobby Farms magazine. Pick up a copy at your local newsstand or tack and feed store. [Subscribe](#) to Hobby Farms online.



 **Give us your opinion on  
Saving the American Chestnut Tree**

[submit a comment ▶](#)

Reader Comments

I have a 200+ year old blight resistant American Chestnut tree in my yard. If anyone wants to purchase seeds email me at themightymaxone@gmail.com

**Dustin, Shippensburg, PA**  
**Posted: 7/30/2014 12:40:52 PM**

God luck to anyone that think they may be able to get anything from The American Chestnut Foundation. They have a \$300 membership fee that enable you to have a remote chance to receive anything. Senior members come first. I appreciate their effort but they sound pretty elitist to me.

**Tom, Soddy Daisy, TN**  
**Posted: 5/26/2013 2:09:25 PM**

I've heard about these majestic trees. I really do want to grow some, however because of them being rare, I can't find any seeds to grow. My friend, while on his trip to the Hocking Hills area said that while hiking on a trail, he came across a giant chestnut tree, and verified it to be an American Chestnut. But I just don't have the time for searching for the tree. hopefully it won't catch chestnut blight and stay alive and grand for many years to come, away from logging and disease.

**Simon, Cincinnati, OH**  
**Posted: 2/12/2013 6:52:32 PM**

I have a chestnut tree growing on my property. I know it has been here for at least 30 years if not more. Last year I contacted someone from the Chestnut Foundation and they were not interested in hearing about this tree. It is a shame too because this tree produces at least 2 gallons of nuts a year.

**Mary Bartlett, Floyd, VA**  
**Posted: 9/29/2011 1:23:15 PM**

[view more comments ▶](#)

**SUBSCRIBE NOW** only **\$15** a year



Name:  \*

Address:  \*

City:  \*

State:  ▾

Zip Code:  \*

Email:  \*

[continue ▶](#) [Privacy Policy](#)

**Product Spotlight**



Precision Strip Till (PST) row units create residue free planting strips and as the strips are created, NH3, dry fertilizer, liquid fertilizer or any combination can be applied in one pass. These strips provide better soil aeration and quicker spring warm up for earlier planting, faster emergence and better stands for higher yields.



Precision Strip Till (PST) row units create residue free planting strips and as the strips are created, NH3, dry fertilizer, liquid fertilizer or any combination can be applied in one pass. These strips provide better soil aeration and quicker spring warm up for earlier planting, faster emergence and better stands for higher yields.



**WOOD HEAT  
WARMTH, SECURITY,  
ECONOMY.**

**Charmaster**

Charmaster Wood Furnaces have been manufactured in Minnesota since 1972. Forced Air and Hot Water models available with furnaces capable of heating up to 5000 square feet.

- Low wood consumption.
- Easy to install.
- Most Charmaster furnaces pay for themselves in 3 years or less.

Call for a factory direct catalog TODAY at 218-326-6786  
[www.charmaster.com](http://www.charmaster.com)



**WOOD HEAT  
WARMTH, SECURITY,  
ECONOMY.**

**Charmaster**

Charmaster Wood Furnaces have been manufactured in Minnesota since 1972. Forced Air and Hot Water models available with furnaces capable of heating up to 5000 square feet.

- Low wood consumption.
- Easy to install.
- Most Charmaster furnaces pay for themselves in 3 years or less.

Call for a factory direct catalog TODAY at 218-326-6786  
[www.charmaster.com](http://www.charmaster.com)

Disclaimer: The posts and threads recorded in our messageboards do not reflect the opinions of nor are endorsed by I-5 Publishing, LLC nor any of its employees. We are not responsible for the content of these posts and threads. Site best viewed with IE 5+

Copyright ©2015 I-5 Publishing, LLC. All rights reserved.

**[Our Privacy Policy has changed. Policy/Your California Privacy Rights.](#)** [Terms of Use.](#) [Guidelines for Participation.](#)

-



**\*Content generated by our loyal visitors, which includes comments and club postings, is free of constraints from our editors' red pens, and therefore not governed by I-5 Publishing, LLC's Gold Standard Quality Content, but instead allowed to follow the free form expression necessary for quick, inspired and spontaneous communication.**