



Hand Held Wheat Harvester

Hand Held Wheat Harvester. 100% Factory Price, Inquiry Now!



Shop now

https://www.sciencedaily.com/releases/2016/06/160620112257.htm

Science News

from research organizations

Print Email Share

First harvest of ancient southern wheat exceeds expectations

Date: June 20, 2016
Source: Clemson University
Summary: Last month, a scientist harvested about 145 pounds of Purple Straw seed, which was grown from less than half a pound. Purple Straw is the only heirloom wheat to have been cultivated continually in the South from the Colonial Period into the last quarter of the 20th century.
Share: Facebook Twitter Google+ LinkedIn + Email

RELATED TOPICS

FULL STORY

Plants & Animals

- > Seeds
- > Food and Agriculture
- > Agriculture and Food
- > Food
- > Botany
- > Invasive Species

RELATED TERMS

- > Heirloom plant
- > Alfalfa
- > Purple loosestrife
- > Potato
- > Grape
- > Wheat



Clemson University scientist Brian Ward and his team harvested about 145 pounds of Purple Straw seed, which was grown from less than half a pound.

Credit: Scott Miller / Clemson University

The first step of an ongoing-process designed to bring a valuable heirloom wheat back from the brink of extinction has been completed with flying colors.

Last month, Clemson University scientist Brian Ward and his team harvested about 145 pounds of Purple Straw seed, which was grown from less than half a pound. Purple Straw is the only heirloom wheat to have been cultivated continually in the South from the Colonial Period into the last quarter of the 20th century. It remained a crop wheat until the 1970s, when it was then abandoned and replaced by more productive modern hybrids.

"Thus far, it's been a complete and total success, even better than expected," said Ward, who planted and nurtured the wheat in the nutrient-rich organic fields surrounding Clemson University's Coastal Research and Education Center in Charleston. "The panicles (loose, branching clusters) turned out really great, we didn't have a problem with insects or disease. Everything worked out perfectly."

Ward planted the small amount of Purple Straw seed in late 2015. He will follow up with a second, larger planting in early October of this year that should produce more than a thousand pounds by the time it is harvested next May. He again will use a sophisticated process called System of Crop Intensification to generate those yields. After a third harvest in 2018, Ward should have several tons of seed.

"By then, we'll have enough to dole out seed to growers who will become curators of the seed," said Ward, who recently revived another heirloom crop, the African runner peanut, in a similar fashion. "And these growers will then be able to supply the wheat to chefs and distillers. The hope is Purple Straw will eventually become widely grown across the country."

Purple Straw's fall into disfavor almost five decades ago came not from disease or infestation but rather from the rise of modern hybrid wheats and foreign introductions that were genetically designed for disease resistance, grain size and massive production using petroleum-based fertilizers. Even if fully restored, Purple Straw will not be able to compete with these hybrids when it comes to quantity, but it will stand out admirably in terms of flavor and nutrition.

The Purple Straw bioconservancy effort has already attracted attention from an internationally recognized list of chefs and distillers who are excited about the rediscovery of such an important Southern food.

"It seems like I'm hearing from everybody," said Glenn Roberts, president of Anson Mills, a Columbia-based company that produces landrace grains on more than 100 farms across America. "But regardless of the demand for Purple Straw, the preservation of the seed must come before there can be any kind of sizable distribution. And that's the beauty of being in the orbit at Clemson University. Scientists such as Brian Ward put biosecurity above all else."

Story Source:

The above post is reprinted from materials provided by **Clemson University**. Note: Materials may be edited for content and length.

Cite This Page:

MLA APA Chicago

Clemson University. "First harvest of ancient southern wheat exceeds expectations." ScienceDaily. ScienceDaily, 20 June 2016. <www.sciencedaily.com/releases/2016/06/160620112257.htm>.

Share This Page:

Facebook Twitter Google+ LinkedIn + Email

Powered by Google



Murska grain crimping

Ad murska.fi



Good Sexual Intercourse Lasts Minutes, Not Hour...

sciencedaily.com



Wheat Harvester For sale

Ad agri-raphael.com



Ancient seal may add substance to the legend of...

sciencedaily.com

NEXT >

Recommended Articles

- New oat variety developed
Clemson University, ScienceDaily, 2012
- Inventor Helps Grasslands Go Native
Montana State University, ScienceDaily, 2006
- Preserving Biodiversity Within Food Crops: Saving Old Distinctive Varieties Of Carolina Collards
US Department of Agriculture, ScienceDaily, 2008
- Ancient going on nouveau: Old world grains make a comeback
American Society of Agronomy, ScienceDaily, 2016
- A Wheat For All Seasons – And Reasons
Texas A&M University, ScienceDaily, 2007

- Cattle Fed On Ethanol Byproduct Have More E Coli
Catharine Paddock PhD, Medical News Today, 2007
- Food for the Future
IEEE Pulse, 2016
- Benefits of Transgenic Insect Resistance in Brassica Hybrids under Selection
C. Sagers et al., Agronomy, 2015
- Going Gluten-Free: Value Beyond Celiac Disease?
David A. Johnson, MD, Medscape, 2013
- Grape Seed Extract Effective In Colorectal Cancer Treatment
Medical News Today, 2013

Powered by Trend MD

SAPRO elixir

Sapro ELIXIR

Best price best offer!

Related Stories

Fourth Wheat Gene Is Key to Flowering, Climate Adaptation
Sep. 4, 2015 — A fourth wheat gene governing vernalization -- the biological process requiring cold temperatures to trigger flower formation -- has been identified, giving plant breeders one more tool for ... **read more »**

Using Genetic Screening to Improve Korean White Wheat

Sep. 19, 2014 — Korean white winter wheat is particularly susceptible to preharvest sprouting, according to researchers. Researchers have identified proteins that are differentially expressed in tolerant cultivars, ... **read more »**

New Bale Unroller Design Deemed Effective

Nov. 19, 2013 — An existing round-bale unroller was modified to create an offset bale unroller for applying hay and wheat straw mulch at two thicknesses to between-row areas of watermelon. All of the hay and wheat ... **read more »**

No Clear Evidence More Gluten in New Wheat Is Responsible for Increase in Celiac Disease

Feb. 6, 2013 — No clear evidence exists to support the idea that celiac disease is increasing in prevalence because farmers are growing strains of wheat that contain more ... **read more »**

PEG and PEG Derivatives

High Quality, Branched, Multi-arm Custom Synthesis, cGMP Quality



Strange & Offbeat

PLANTS & ANIMALS

Predicting Loaf Volume Without Baking the Bread

Tadpoles Hatch in Seconds to Escape Predator

Rush Hour on Palmyra Atoll

How the Butterfly Got Its Spots

EARTH & CLIMATE

Sea Snakes Have Extra Sense for Water Living

Minecraft Tree 'Probably' the Tallest Tree in the Tropics

Underwater 'Lost City' Found to Be Geological Formation

Methane-Producing Microbes in California Rocks

FOSSILS & RUINS

One Snake's Prey Is Another's Poison: Scientists Pinpoint Genetics of Extreme Resistance

Electric Eels Make Leaping Attacks

Tiny 'Vampires': Paleobiologist Finds Evidence of Predation in Ancient Microbial Ecosystems

New Horned Dinosaur Species With 'Spiked Shield'

See fewer ads and support this site.

Contributor works on millions of sites and all of your devices.

Contributor by Google

Print Email Share

Free Subscriptions

Get the latest science news with ScienceDaily's free email newsletters, updated daily and weekly. Or view hourly updated newsfeeds in your RSS reader:

- Email Newsletters
- RSS Feeds

Follow Us

Keep up to date with the latest news from ScienceDaily via social networks:

- Facebook
- Twitter
- Google+
- LinkedIn

Mobile Apps

Get the latest news from ScienceDaily via our free mobile apps, available for download on the following platforms:

- iPhone/iPad
- Android

Have Feedback?

Tell us what you think of ScienceDaily -- we welcome both positive and negative comments. Have any problems using the site? Questions?

- Leave Feedback
- Contact Us