

# MARKET BULLETIN

Vol. 97 • Num. 3

February 2, 2023

Est.

1913



## FILLING THE GAPS

### SCDA'S NEW GAP OUTREACH COORDINATOR EXPLAINS HOW SHE CAN HELP

INTERVIEW BY EVA MOORE

*Blakely Atkinson is the GAP Program Coordinator for the South Carolina Department of Agriculture. She spoke with Market Bulletin about how her program works for South Carolina farmers.*

#### What is GAP?

GAP, or Good Agricultural Practices, is a voluntary audit based on the Food Safety Modernization Act's Guide to Minimize Microbial Food Safety Hazards in Fresh Fruit and Vegetables. This audit can show buyers and consumers that a farm is taking extra steps to reduce the risk of foodborne illness associated with fresh produce. GAP involves record keeping, water testing and maintenance, cleaning, and sanitizing, to name a few key practices. A lot of growers already have good agricultural practices in place.

#### Why would a farm want to be GAP certified?

While a GAP audit is voluntary and not required by law, some buyers require GAP certification to do business. If an operation becomes GAP certified, it can lead to additional market opportunities. GAP certification can also maintain or improve your operation's overall success, as the recordkeeping and documentation required may help you reach a new level of organization.

#### What services does SCDA's new GAP Outreach and Education Program offer?

The SCDA GAP Outreach and Education Program offers assistance to help growers prepare for GAP audits. Training sessions will be offered throughout the upcoming year for growers, so keep checking the schedule located on the SCDA GAP page. As the new GAP Program Coordinator, I will also be making on-farm visits to help growers with writing their food safety plan and making sure their operations are GAP audit ready! Another awesome aspect of the Program is the Cost Share Reimbursement offered by SCDA to assist with GAP audit costs. The cost share reimburses farmers 90% of the costs associated with a GAP audit.

#### Who performs the actual GAP audit?

While a GAP audit is a USDA certification, an SCDA auditor will be completing the audit to submit to the USDA.

#### How can people get in touch with you?

Getting in touch with me is simple! There is a new



GAP webpage on SCDA's website that contains resources and information pertaining to GAP, including a schedule of upcoming events as well as an Intake Application. This Application will serve as a record for me and will notify me to get in touch with you if you are interested in GAP training. If you have any additional questions, feel free to contact me via email or phone. My contact information is located on the GAP webpage as well.

#### What do you like best about this job?

I love every aspect of working with SCDA, but as the GAP Program Coordinator, the interaction I have with the growers in our great state of South Carolina is what I love the most. I love agriculture, people, and teaching, and this position allows me to combine the three to really make a difference in helping growers with new opportunities and helping improve consumer safety!

### Get in touch with GAP

Blakely Atkinson,  
GAP Program Coordinator

[blatkinson@scda.sc.gov](mailto:blatkinson@scda.sc.gov)

803-939-5754

[agriculture.sc.gov/  
good-agricultural-practices-gap](http://agriculture.sc.gov/good-agricultural-practices-gap)

## COMMISSIONER'S CORNER



HUGH E. WEATHERS

SOUTH CAROLINA  
COMMISSIONER OF AGRICULTURE

## FACE TIME

Department staff members and I have been making the rounds of meetings across South Carolina — and talking to lots of farmers.

The South Carolina Agritourism Association's annual meeting always features an impressive agenda, and this year's meeting had the largest turnout ever. Agritourism has grown astronomically in South Carolina — there are now 545 agritourism farms around the state.

Farmers learned about some new variety trials and how precision ag is being used in peanut research.

I spoke at the South Carolina Specialty Food Association Meeting. I have a lot of respect for the entrepreneurial spirit that leads these foodmakers to do what they do.

I found some time in there to join Lt. Gov. Pamela Evette and Duane Parrish, Director of the South Carolina Department of Parks, Recreation and Tourism, to announce the Chef Ambassadors for 2023. You can read all about these fine chefs — and their connection to agriculture — on page 8 of this issue. It's a dynamic group this year.



I visited with cotton growers at the annual South Carolina Cotton Growers Meeting. Held in Santee, this was a good opportunity to see what the year might hold for the cotton industry and market. It's been a strong couple of years for South Carolina cotton. One important session at that meeting was an update from Chief Chemist Leslie Beaty on the SCDA seed laboratory. Our seed lab conducts germination and purity testing for citizens, farmers, businesses, and wholesalers, and is thus a crucial part of the industry.

Next on my agenda was the annual peanut meeting, also held in Santee. They had what looked like a record

Next up is the NASDA Winter Policy Conference in Washington — always a good opportunity to talk about our federal priorities for agriculture. One big topic this year will be WOTUS, the Waters of the United States final rule that EPA recently released. For years we've been asking for clarity for farmers, and this rule is a step backwards.

And then of course there's the Southeastern Wildlife Expo in Charleston, South Carolina, set this year for Feb. 17–19. Whew! Stop by the big tent trimmed in red and with a barn attached. We'll be in the middle of Marion Square.

*Hugh E. Weathers*

## UPCOMING EVENTS



### Craft Pop-Up — Greenville

February 11 • 9 am – 1 pm

Join us for a one day only Craft Pop-Up event! Shop handmade crafts, fresh flowers, candles, pottery, jewelry, and soaps by local vendors.

**Greenville State Farmers Market**

1354 Rutherford Road, Greenville

Contact: Lia Sanders

[lsanders@scda.sc.gov](mailto:lsanders@scda.sc.gov) • 864-244-4023

[greenvillestatefarmersmarket.com](http://greenvillestatefarmersmarket.com)

### Craft Pop-Up — Florence

February 11 • 10 am – 5 pm

Join us for a one day only Craft Pop-Up event! Shop handmade crafts by local vendors. Food trucks and seating under cover will be on-site.

**Pee Dee State Farmers Market**

2513 W. Lucas Street, Florence

Contact: Bob Sager

[bsager@scda.sc.gov](mailto:bsager@scda.sc.gov) • 843-665-5154

[peedeestatefarmersmarket.com](http://peedeestatefarmersmarket.com)

### SC Beekeepers Association Spring Conference

February 24 – 25 • 10 am – 5 pm

Join us for "Show Me the HONEY!" — a 2-day opportunity to learn anything and everything about that sticky stuff! Come hear industry experts share how they manage and grow their honey operations and market their honey. Conference will include a variety of presentations and discussions, workshops, a Honey Show, and Vendor Fair. Keynote Speakers include: Bob Binney, Stephen Coy, and Marina Marchese. Registration is now OPEN online.

**SIMT Florence-Darlington Technical College**

1951 Pisgah Road, Florence

Contact: SC Beekeepers Association

[president@scstatebeekeepers.com](mailto:president@scstatebeekeepers.com) • 864-430-3393

[scstatebeekeepers.com](http://scstatebeekeepers.com)

### Introduction to Beekeeping Workshop

February 25 • 8:30 – 11 am

This workshop will introduce attendees to beekeeping. It is recommended for those thinking of starting beekeeping, beginning beekeepers, and those who are just fascinated by bees! We will explore the workings of the hive, seasonal tasks, biology, honey harvesting, diseases and pests, as well as what equipment is needed to start. This workshop is included in our 2-day spring conference registration OR may be purchased separately as a stand-alone workshop. See website for more details.

**SIMT Florence-Darlington Technical College**

1951 Pisgah Road, Florence

Contact: SC Beekeepers Association

[president@scstatebeekeepers.com](mailto:president@scstatebeekeepers.com) • 864-430-3393

[scstatebeekeepers.com](http://scstatebeekeepers.com)

### South Carolina Christmas Tree Association 2023 Winter Meeting

February 25 • 1:30 – 5 pm

Registration and socializing will begin at 1:30 pm and the meeting will begin at 2:00 pm. After adjournment, members will travel to the Oceanview Seafood Restaurant for dinner. The meeting will be very informal with a Grower Tree Talk led by Tom Sawyer and ample opportunity for members to interact with fellow members about their operations and experiences. An update on the Historical Project will be presented along with a short business meeting. There will be no charge for registration for members or attendees from affiliate state associations. Non-member farms are required to pay a \$50 registration fee. This fee will be credited toward 2023 membership dues if the attendee farm chooses to join the association in the first month of attendance.

**SC Farm Bureau**

724 Knox Abbott Drive, Cayce

Contact: Steve Penland

[slpenland69@gmail.com](mailto:slpenland69@gmail.com) • 803-366-7605

[scchristmastrees.org](http://scchristmastrees.org)

## SALES & AUCTIONS

### Tindal Farms Auction

February 4 • 2 – 5 pm

We accept all miscellaneous items for auction, including poultry and small animals. Cash payments must be paid in full on the day of sale. Tindal Farms auction firm Hosted by Hal Tindal.

**1407 Fox Tindal Road, Pinewood**

Contact: Hal Tindal

[hal.tindal@outlook.com](mailto:hal.tindal@outlook.com) • 803-473-0171

### Yon Spring Bull and Female Sale

February 18 • 11 am

Offering 200 bulls and 100 females at auction – mostly registered Angus, some SimAngus and Ultrablacks. Bulls ready for service, pairs, bred cows, and bred heifers.

**318 Aiken Road, Ridge Spring**

Contact: Yon Family Farms

[lydia@yonfamilyfarms.com](mailto:lydia@yonfamilyfarms.com) • 803-622-8597

[yonfamilyfarms.com](http://yonfamilyfarms.com)

## SCDA State Farmers Markets

### SOUTH CAROLINA STATE FARMERS MARKET

3483 Charleston Highway  
West Columbia, SC 29172  
803-737-4664

### GREENVILLE STATE FARMERS MARKET

1354 Rutherford Road  
Greenville, SC 29609  
864-244-4023

### PEE DEE STATE FARMERS MARKET

2513 W. Lucas Street  
Florence, SC 29501  
843-665-5154

### VISIT AGRICULTURE.SC.GOV

Click on the State Farmers Markets button for more information about each location

## SC Market Bulletin Subscription & Renewal Form

Mail completed form with check or money order payable to the SC Department of Agriculture to: SC Market Bulletin, PO Box 11280, Columbia, SC 29211  
To subscribe with a credit card online, visit [agriculture.sc.gov](http://agriculture.sc.gov), click on Market Bulletin, select Subscribe to the Market Bulletin, then follow the prompts.  
Do not send cash in the mail. Non-refundable. Allow 6 – 8 weeks for processing. Subscriptions may only be purchased for up to 2 years.

Name \_\_\_\_\_  Paper: \$15 / 1 year  Electronic: \$10 / 1 year  
\*Active email address required

Address \_\_\_\_\_  Paper & Electronic: \$20 / 1 year  
\*Active email address required

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  New  Renewal

Phone \_\_\_\_\_ Check # \_\_\_\_\_ Renewal ID # \_\_\_\_\_

Email \_\_\_\_\_  This is a gift 2/2/23

## Market Bulletin Office

Monday – Friday • 8 AM – 4:30 PM

803-734-2536 • [marketbulletin@scda.sc.gov](mailto:marketbulletin@scda.sc.gov)

[agriculture.sc.gov/market-bulletin](http://agriculture.sc.gov/market-bulletin)

EDITOR Eva Moore

ADS & CIRCULATION COORDINATOR Janet Goins

GRAPHIC DESIGNER Stephanie Finnegan

## South Carolina Department of Agriculture Contacts

Commissioner's Office

803-734-2190

Certified SC Program 803-734-2207	Hemp Farming Program 803-734-8339
Consumer Protection 803-737-9700	Livestock & Grain Market News 803-737-4621
Fruit & Vegetable Inspection 803-737-4588	Market News Recording 803-737-5900
Fruit & Vegetable Market News 803-737-4497	Metrology Laboratory 803-253-4052

## The South Carolina Market Bulletin

(ISSN 0744-3986)

The *Market Bulletin* is published on the first and third Thursday of each month by the SC Department of Agriculture, Wade Hampton Building, Columbia, SC 29201. Periodicals postage paid at Columbia, SC 29201.

Postmaster, send address changes to:  
SC Market Bulletin, PO Box 11280, Columbia, SC 29211

### POLICIES FOR ADVERTISING

For our full policies, please visit:  
[agriculture.sc.gov/market-bulletin-policies](http://agriculture.sc.gov/market-bulletin-policies)

Only ads pertaining to the production of agricultural products and related items are published. Ads are accepted for South Carolina items, even if the seller lives out of state, provided the item is in state at the time the ad is published and at the time of sale.

Ads are published free of charge and in good faith. The *Market Bulletin* reserves the right to edit and verify ads but assumes no responsibility for their content.

Ads cannot be accepted from agents, dealers, or commercial businesses, including real estate. Sealed bids, legal notices, or consignment sales are not accepted.

### SUBMITTING ADS

No matter the submission method, submissions must include the advertiser's name, complete address with zip code and county, and phone number with area code. While we don't publish the address, we need this information for our records. Do not use all capital letters.

- **Online:** Go to [agriculture.sc.gov/market-bulletin](http://agriculture.sc.gov/market-bulletin). Select "Submit Market Bulletin Ad" and complete the form. If you include your email address, you will receive an automated reminder for a renewal.

- **Mail:** SC Market Bulletin, PO Box 11280, Columbia, SC 29211. You must use 8.5 × 11 inch paper.

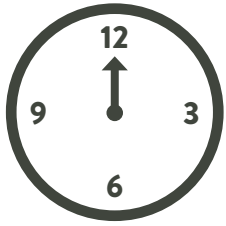
- **Email:** Send ads to [marketbulletin@scda.sc.gov](mailto:marketbulletin@scda.sc.gov). Put the words "Market Bulletin ad" in the subject line.

- **Fax:** 803-734-0659

The deadline for submitting ads and notices is noon on Tuesday of the week **before** the publication date.

## NEXT AD DEADLINE

FEBRUARY 7 • 12:00 PM



## REMINDER TO ADVERTISERS

Ads are due by noon (12 pm) on the Tuesday after the latest published issue.

Any ads received after the deadline will be considered for a subsequent issue.

## AQUACULTURE

### BLUEGILL

50¢; Catfish, 75¢; Carp, \$12; F1 Tiger Bass, \$4; Lrgmth Bass, \$2; Minnows, \$20/lb; Tilapia, \$2  
Derek Long  
Newberry  
803-944-3058

### STERILE CARP

\$12; Bluegill, \$55/100; Shlckr/Rdbrst, Chan Cats, \$65/100; Gambusia, \$40/100  
Clay Chappell  
Richland  
803-776-4923

### BLUEGILL/REDEAR BREAM

50¢-\$3; Shad, \$1-\$5; Crappie, \$1-\$3; Catfish, \$1-\$3  
Cannon Taylor  
Newberry  
803-276-0853

## CATTLE

### REG BLK ANG BULLS

18+ m/o, good b'line, calving ease, \$2200  
Roy Hungerpillar  
Orangeburg  
803-682-3324

### ANG/SIM & ANG CROSS HEFRS

6-10 m/o, \$650+  
Gerald Bedenbaugh  
Newberry  
803-944-5026

### BELTED GALLOWAY BULL

10 m/o, PB, not reg, \$800  
Tommy Cumalander  
Newberry  
803-414-2542

### 2 Y/O ZEBU BULL

spotted, parents on site, text pls, \$500 obo  
Jennifer Smolensky  
Colleton  
843-599-2987

### REG BLK ANG BULLS

14 m/o-2 y/o, \$1750+; prs & springers, \$1500+  
Marc Renwick  
Newberry  
803-271-8691

### REG BRN SWISS COW

5 y/o, bred to PB Ang bull, due in June, halter broke, \$1000  
Skylar Bolin  
York  
803-627-4836

### RED ANG BRED COW

AI to Select Sires 7AN466  
Rainfall, bred 8/9, \$1750  
Brent Watkins  
Spartanburg  
864-525-9249

### LINE ONE HRFRD BULLS

\$2750 ea  
Jim Drake  
Anderson  
864-933-2790

### JERSEY W/2 M/O CALF

being milked, \$2000 for both  
George Phillips  
Williamsburg  
843-992-1964

### PB REG RED ANG BULL

4 y/o, proven breeder, selling to prevent inbreeding, \$2000  
Ira Jeffcoat  
Orangeburg  
803-837-1844

### PB CHAR BULLS

low BW, 8, 11 & 30 m/o, \$1500+  
Lane Keasler  
Anderson  
864-965-8666

### FB RED POLL YRLG BULLS

open & bred hefrs, cow/calf prs, \$1800-2500  
J Wyatt  
Marlboro  
803-651-3086

### 3 PB DEXTER BULL CALVES

B-10/22, \$1250 ea or \$3000 for all  
Steve Vernet  
Spartanburg  
864-363-5800

### 3 Y/O PB HRFRD COW

w/2<sup>nd</sup> calf, hefr, Baldy, \$1900 for pr  
Al Harman  
Lexington  
803-210-5529

### BLK ANG BULLS

PB, nearly 3 y/o, \$2300+  
Mike Johnson  
Newberry  
864-923-0750

### REG BFMSTER BULLS

26 m/o reg blk, \$1800; 19 m/o paint bull, \$1700; 4 PB bulls, \$1300+  
John Steele  
Lancaster  
803-283-7720

### BELTED GALLOWAY BULL

B-3/21, wide wht belt, 1000 lbs, should mature to 1500+ lbs, \$1250  
Mike Gainey  
Greenville  
864-616-3205

### REG RED DEVON

M & F, \$750, 1 yr or less; \$1500/adults, most females are bred, del avail  
Ottis Wagner  
York  
704-609-4912

### REG & COMM BULLS

& hefrs, confirmed bred hefrs by Reg Bull, all low BW, gentle, \$1200-2500  
Bobby Baker  
Lancaster  
803-804-2230

### 2 BLK ANG BULLS

7 m/o, \$900 ea; 4 y/o Blk Ang bull, proven producer, \$2800; 2 Blk Ang hefrs, \$800 ea  
Suzanne Reed  
Anderson  
864-293-0363

### WAGYU BRED HEFR

¾ Wagyu ¼ Ang, AI to reg Wagyu, bred 7/4, 1<sup>st</sup> time hefr, \$2500  
Bobby Page  
Spartanburg  
864-494-2501

### 8 RED BALDY HEFRS

"Hrfrd & Red Ang cross", moderate frame, 100% grass, gentle, \$1000  
David Bishop  
Bamberg  
843-209-1910

### REG SIM/ANG

2 y/o, bred AI sire T5  
Franchise 451 D, out of Yon Starbright, solid blk, \$3000  
Paul Kicidis  
Union  
864-429-6112

### 3 JERSEY HEFRS

30 m/o, 2 bred, 1 exposed, \$1500-1800 ea  
Robert Turner  
Orangeburg  
803-596-6463

### REG ANG BULLS

low BW, docile, exc EPDs, ready for serv, \$1500+  
Rick Outen  
Chesterfield  
843-337-1355

### REG YRLG SIMANG

& Hrfrd bulls, AI sired, calving ease, vac & on feed, \$2500+  
Wayne Garber  
Laurens  
864-923-0581

### REG & COMM ANG

& SimAng hefrs, open, ready to breed, vac & on feed, \$1400  
Jordan Nabors  
Laurens  
864-923-5985

## FARM EQUIPMENT

ADS MAY NOT BE SUBMITTED BY COMMERCIAL DEALERS. A CURRENT FARM TAG ISSUED BY THE SCDMV IS REQUIRED ON ALL FARM VEHICLES.

### HINOMOTO E18 TRACTOR

dsl, 2 cyl, 3ph, GC, \$2000  
Jack Kay  
Greenville  
864-419-1322

### NH BR370 4x4 BALER

\$5500; NH 57 rake, \$1800; NH 157 tedder, 2 basket, \$750; Kubota rotary cutter, \$4500  
James Miller  
Oconee  
864-934-3574

### '19 MAHINDRA TRACTOR

4 WD, 85 hp, 385 hrs, power shuttle shift, \$35,500; '20 Brown 6' tree cutter, new, \$11,500  
James Burton  
Saluda  
803-260-9972

### JD 915 FLEX HDR

in GC, \$3500  
Otto Williamson  
Williamsburg  
843-372-2692

### JD 4710 SPRYR

\$50,000; KMC 4r ripper spider, \$1600; JD 328 baler accumltr, grapple, \$16,000  
Jeffrey Gilmore  
Chesterfield  
843-517-0315

### 2 DISC TILLER PLOW

Athens HD, GC, \$350  
Marshall Oshields  
Union  
864-426-8021

### 8' 3PH HARROW

& hay rake w/short tongue, \$95 ea; 4'x8' trl, GC, 2whl, \$365  
Kenneth Shelton  
Greenville  
864-963-5912

### BROWN BRUSH CUTTER

new blades & bolts, 6'W w/1000 rpm PTO, \$5000  
Kenneth Chicos  
Laurens  
276-445-5771

### 1720 8R HYD DRIVE PLNTR

KMC 8r strip till, auto reset w/Unverferth assist whls, 2015, \$45,000  
Walker Nix  
Barnwell  
803-541-1628

### '75 FORD 2000 TRACTOR

gas, 36 hp, 1940 hrs, runs good, \$4800 obo  
Robert Knox  
Greenwood  
864-344-0699

### 5x7' TRL

\$700  
Bobby Dennis  
Newberry  
803-924-2118

### 2-BTM TURN PLOW

Long mod 2014, \$250; 1r cult, w/HD frame, \$215; both 3ph  
Carl Agner  
Cherokee  
864-490-0156

### NH 3930 TRACTOR

1300 hrs, 2 wd, frt wts, VGC, \$12,500  
Steve Sease  
Anderson  
864-304-6313

### TRACTOR

'48 Oliver row crop 60, \$8500  
Mike Hill  
Anderson  
864-332-7177

### BUSH HOG 7 SHANK V RIPPER

VGC, \$3500  
Will Culbertson  
Laurens  
864-981-2474

### MF 1080

\$9500; JD 4720 4wd ldr, \$32,000; Cat D7F, \$35,000; MF 1105, \$15,000; JD 3020, \$10,000  
Ronald McGraw  
Lancaster  
980-255-8584

### CASE IH 22' 335VT

hyd leveling & baskets, wing gage whls, 500 acres, LN, \$50,000  
Jeff Millen  
Chester  
803-209-0893

### BOX BLADE

Frontier BB2072 w/scarifies, EC, \$800  
Cal Norris  
Edgefield  
864-378-2693

### CASE THRESHER

\$1000; JD grain binder & hay press, \$900 ea; more, all antiq  
Ed Long  
Laurens  
864-505-6765

### MF SQ BALER

\$2500; FA 400 dsl, \$1000; combine, \$1500; FA M, \$800  
Jack Holbrook  
Anderson  
864-314-1145

### NH 1037 STACKLINER

FR, used last season, 105 sq bale cap, \$10,000  
Allen Kirchner  
Aiken  
803-646-0999

### JD 6300 W/JD620 LDR

\$35,000; Krone AM283 disc mwr, \$8500; Pequea whl rake & Krone tedder, \$7500 ea  
Otis Hembree  
Spartanburg  
864-316-1222

### NH 650 RND BALER

4x6, GC, \$4000  
Ed Hagan  
Abbeville  
864-378-6992

### 16 DISC HARROW

pull type, GC, \$450  
Gordon Hill  
Anderson  
864-617-5413

### JD 2010 TRACTOR

w/canopy, new rear tires, w/2r cult/plntrs, GC, \$7500; GMC 7000 boom, 37' w/16' dump, \$12,000  
Jimmy Wilson  
Anderson  
864-923-2348

### ROTARY CUTTER

6' Bush Hog, GC, FR, \$1500; 2910 Ford tractor, dsl, PS, GC, 8 spd, 40+hp, \$6500  
M Wilson  
Spartanburg  
864-595-1136

### FULL SET 2R CULTS

for D14-17 tractor, \$300  
James Pruitt  
Spartanburg  
864-316-0004

### IH 1020 HDR AUGER

15', \$400; NH rnd baler, \$2700  
Charles Nichols  
Saluda  
864-445-8350

### LEINBACH 3PT DIRT SCOOP

30"Wx30"L bucket, 3'x3' overall, NC, \$250; Leinbach 3ph bale spike, used, EC, \$250  
Elaine Jeter  
Richland  
803-917-6243

### JD 450C CRAWLER DOZER

\$12,000; 7' boom pole, \$200; old 2r rotary hoe, \$300; texts OK  
Franklin Brown  
Charleston  
843-224-4711

### 6' ROTARY CUTTER

Bush Hog brand, FR, \$1600  
Chris Johnson  
Aiken  
803-640-2734

### JD 702 HAY RAKE

8 whl, EC, \$2500  
Thomas Crosby  
Colleton  
843-562-6334

### HARDEE SPRAYER

140 gal, 3pt, 16', new hose & pump, EC, \$1850; 3pt Carryall, \$75  
George Schwab  
York  
803-493-8021

### HAY TRL

\$500; bush hog, & hay rake, \$200 ea; harrows, \$100  
Gary Seay  
Spartanburg  
864-578-8214

### MF 33 GRAIN DRILL

for parts, \$225; Dirt Dog landscape rake, 5', new, \$875  
F Rowe  
Newberry  
803-271-7768

### FA SUPER A W/CULT

EC, no bents or parts missing, LN tires, \$3500  
Robert Yonce  
Aiken  
803-685-7240

### AC 42 7R PLNTR

shed kept, FR, good hyd cyl & tires, \$2000  
Simon Miller  
Spartanburg  
864-303-8002

### '17 JD TRACTOR 4044M

EC, hyd trans, 368 hrs, \$29,500  
Michael Trotter  
Saluda  
864-992-2539

### JD 4430

GWC, \$8500; MF 253, for parts, \$3500; will sell parts separately  
Robert Turner  
Orangeburg  
803-596-6463

### 4x5 HAY BALER

Kubota BV4160, \$17,500  
C Malcolm Bryant  
Lexington  
803-604-2113

### HAY SPEAR

3ph, \$100  
Richard Martin  
Greenville  
864-243-4974

### JD 450E DOZER

GRC, has bad trans, \$6500 obo  
T Campbell  
Chester  
803-518-0907

### '48 JD B

\$2200; 12' JD pull type disc, \$900; 10' 3pt Howse mwr, \$3200; all in GC  
Jack Hurst  
Chesterfield  
843-921-8574

### JD 1700 MAX EMERGE

plus 6r vac plntr w/liq fert row cleaner, \$14,500; JD 6500 spryr, 60' boom, \$25,000  
Joe Phillips Jr  
Lexington  
803-600-2928

### '61 JD 1010

low hrs on rebuilt block, needs battery/tune-up, more, GRC, \$1200; 5' roto tiller, used little, \$800  
Legrand Bunch  
Berkeley  
843-708-7311

### 3 WAGONS

30x8 no bed-all metal, for hay, \$800; 12x8 wooden bed, \$300; 16x8 metal bed, \$600  
Brice Stephenson  
York  
803-684-3418

### FORD TRACTOR

new lift cyl, PTO shaft, starter, alt, tires, carb, fuel tank, frt end, & new spare parts, \$5375  
Tom Kirkley  
Lancaster  
803-246-8195

## FARM LABOR

NOTICES ARE ACCEPTED FOR AGRICULTURAL WORK ONLY AND NOT FOR HOUSEWORK, NURSING, OR COMPANIONSHIP NEEDS.

### FORESTRY MULCHING & CLEARING

clear land w/mulcher or excavator, small to lrg tracts  
Dakota Hollman  
Lexington  
803-687-6382

### ONSITE MOBILE WELDING

& fabrication, farm & hvy equip, fences, gates, etc  
Garrett Stephens  
Greenville  
828-405-2176

### DOZER/TRACKHOE WORK

build & repair ponds, demo, tree removal, land clearing, roads, free est  
James Hughes  
Greenwood  
864-227-8257

### NEED PERSON

for property caretaker & maintenance for horse farm, hunting retreat, & multiple properties  
Trey Harrell  
Lexington  
803-960-0393

### CUT & FERT

10A field  
Hannelore Wilson  
Lexington  
803-606-6947

### AG FENCE INSTALL

serving the Upstate, fixed knot woven wire, barb, HT elec, board, hyd post driving  
Taylor Chappell  
Abbeville  
864-276-8906

### NEED BOAR BREEDING SERV

to breed yng wht sow  
Roger Barnes  
Lexington  
803-606-3335

### FENCE INSTALLATION

& maint/repair, barbed wire, goat & horse fences, high tensile wire  
Sam Rasner  
Pickens  
843-789-0874

### TRACTOR WORK

firt end ldr, dirt blade, bush hog, chain saw trees, back hoe work w/in 20 mi  
David Wannamaker  
Calhoun  
803-682-2117

### LIGHT TRACTOR WORK

incl bush hogging, discing, cut up & removal of downed trees, light landscaping  
John Tanner  
Lexington  
803-422-4714

### LIME SPREADING

specialize in TN, call for prices  
Drake Kinley  
Anderson  
864-353-9628

### CUSTOM SPRIGGING

CB & Tifton 85 Bermuda grasses, statewide, lrg & sm jobs, call for more info  
Timmy Benton  
Colleton  
843-908-3222

### LAND CLEARING

logging clean up, stumping/ raking, building pads, ditch maint, licensed & insured, serving all of SC  
Ben Leonard  
Pickens  
864-901-8155

### PASTURE MGMT SERV

spray weeds, treat fire ants, fert & lime, plant pastures, Fescue, Ryegrass, Bermuda, Bahia  
Kenny Mullis  
Richland  
803-331-6612

### PECAN CRACKING SERV

also tumbled & blown, 50¢/ lb; whole nuts, cracked nuts, halves, \$3+  
Marc Renwick  
Newberry  
803-271-8691

### CLEARING

grading, stumping, demo, hvy disking, Rome disc-dozer  
Keith Peterson  
Chester  
803-633-4015

## FARM LAND

FARM LAND MUST BE OFFERED FOR SALE BY THE OWNER, NOT AN AGENT. TRACTS MUST BE AT LEAST 5 ACRES UNDER CULTIVATION, TIMBER, OR PASTURE. OUT-OF-STATE OWNERS—NOT REAL ESTATE AGENTS—MAY NOW SUBMIT ADS FOR LAND IN SC.

### 13.36A WOODED

on big creek, Greenville Co, near Fork Shoals Rd & W Georgia Rd, \$250,000 w/ survey  
John Cooper  
Greenville  
843-693-9099

### WANT LAND TO LEASE

for hunting, Darlington or surrounding Co, have equip to repair & maintain property  
Ray Sealey  
Darlington  
843-409-1717

### 132A SUMTER CO

timber, Pocotaligo Swamp, w/gov easement, duck & deer hunting, \$1100/A  
Horace Roberson  
Sumter  
803-972-4800

### WANT 5+A PASTURE

Fairfield, Chester, York, Lancaster, Union Cos  
Russell Brown  
Fairfield  
803-718-0911

### WANT 5+A

suitable for livestock, Fairfield, Kershaw Co  
Mason Motley  
Richland  
803-754-3224

## GARDEN

ADS ARE NOT ACCEPTED FROM COMMERCIAL NURSERIES, WHICH HAVE ANNUAL SALES OF \$5,000.

### RABBITEYE BLUEBERRIES

\$2  
Billy Eddins  
Chesterfield  
843-623-2427

### FIG & BLUEBERRY TREES

3 gal, \$15; grapevines, \$10; Blkberry plants, 3/\$25; Pomegranate trees, \$20  
FC Noles  
Barnwell  
803-383-4066

## FRESH PRODUCE

PRODUCE MUST BE RAW AND NON-PROCESSED. RAW MILK, BUTTER, AND CHEESE PRODUCTS MUST BE PERMITTED BY THE SC DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL. AN EGG LICENSE IS NOT REQUIRED FOR ON-FARM POINTS OF SALE.

### PECANS

in shell, \$2/lb; cracked & run thru sheller/blower, \$6/lb  
Wade ten Bensel  
Lancaster  
803-283-4631

### PECANS

in shell, 10 lb bags, \$1/lb; clean shelled, \$7/lb  
Jordan Harris  
Calhoun  
843-709-3239

### CHICKEN EGGS

farm fresh, \$3/dz  
Becky Burns  
Anderson  
864-980-7832

### BLUE RIBBON SUGARCANE

\$65/100 stalks  
FC Noles  
Barnwell  
803-383-4066

### CHICKEN EGGS

farm fresh, \$3/dz, \$4/18  
Rose Roof  
Lexington  
803-315-7307

## GOATS / LLAMAS / SHEEP

### DORPER/KATAHDIN RAM

2 1/2 y/o, proven breeder, lrg, blk/wht, \$275 or trade  
Tammy Hodge  
Sumter  
803-983-5041

### (3) 2 Y/O KIKO NANNIES

& 2 y/o red/wht pure Boar buck, \$300 ea  
Terry Gibert  
Greenwood  
864-993-4212

### PB NUBIAN GOATS

M & F, \$200-400  
Aaron Shirey  
Lexington  
803-413-2974

### MALE LAMBS

<1 y/o, 100 lbs, \$150  
Ottis Wagner  
York  
704-609-4912

### 5 PB NZ KIKO GOATS

CDT, Famacha, reg not incl, \$300 ea  
Jane S Cooper  
Greenville  
843-693-1949

### 3/4 BOER 1/4 MILK GOATS

6 m/o billies & nannies, \$200 ea  
Philip Poole  
Union  
864-427-1589

### NGN DWARF BUCKLINGS

8 w/o, \$200 ea  
Diana Melton  
Clarendon  
803-464-2992

### KIKO BUCKS

reg w/DNA, \$300  
George Phillips  
Williamsburg  
843-992-1964

### JACOB RAMS

7 m/o, 4 & 2 horned, \$250+; 50/50 Jacob/Finn rams, 1-2 y/o, 4 horned, blk, \$280  
Allan Clark  
Abbeville  
864-314-5226

### 2 NGN DWARF BILLIES

both wht, 2 y/o proven breeder, \$100; 2 m/o, \$150  
Skip Price  
Lexington  
803-465-1484

### KIKO BUCKLING

B-11/22, 100% NZ, tri-color, \$400 w/o papers, \$500 w/ papers  
Tommy Dent  
Abbeville  
864-447-7836

### ANGORA GOATS

mature proven buck, \$200; wethers, \$175; pregnant does, \$250  
Emily Simon  
Lancaster  
803-627-7850

### KIKO GOATS

kids, yrlngs, & adults, \$75-250  
Jonathan Hardy  
Richland  
803-730-8551

### BOER/BRIAR MIXED GOATS

\$75/billy; \$100-150/nanny; photos avail  
Ken Evans  
Lee  
803-464-1370

### <2 Y/O SM BILLY GOAT

blk & wht w/horns, \$125  
R O Atkinson  
Chester  
803-385-8034

## HAY & GRAIN

### HQ CB

\$8/sq; \$70/rnd; rnd CQ hay, \$60; all shed kept  
Warren E Coker  
Florence  
843-319-1884

### '22 CRAB GRASS HAY

1000 lb rnd bales, twine tied, \$40  
Joe Johnson  
Berkeley  
843-567-7774

### '22 RYE STRAW

precut, bright yellow, \$6/bale  
Edward Berger  
Dorchester  
843-832-9233

### '22 NET WRAP 4x5 CB

limed & fert, stored outside, in Barnwell, \$60/bale  
Alfred Bush  
Aiken  
803-522-3763

### '22 SQ OAT STRAW BALES

clean, \$4.50 ea  
Tom Fink  
Lexington  
803-622-4678

### '22 MIXED GRASS HAY

\$4/bale  
Mills Dorn  
Edgefield  
803-480-2899

### '22 4x5 RND CB

twine, stored, \$55; field, \$40  
Michael F Hallman  
Lexington  
803-657-5526

### '21 SD ALFALFA

dairy qual, 3x4x8, 1600 lbs, \$380 ea, cash sales  
Chris Roux  
Cherokee  
864-906-5471

### '22 HQ RND CB

\$70; CQ rnd, \$55; HQ sq, \$8, all shed kept  
Eddie Phillips  
Sumter  
803-486-0081

### FESCUE

50 lb sq's, GQ, \$12, Landrum area p-up  
David Meeks  
Spartanburg  
864-316-9572

### WHEAT STRAW

sq, \$5/bale  
Jason Nichols  
Saluda  
864-992-2753

### '22 4x54" RND CQ CB

net wrap, well fert, shed kept, \$65, no del  
Rickey Meetze  
Lexington  
803-892-3573

### '22 HQ CB

\$8/bale  
Ike Hardwick  
Darlington  
843-858-2103

### 25 BALES OF OATS HAY

string wrap, shed kept, \$60/bale  
Harroll Stockman  
Newberry  
803-924-7878

### WHEAT STRAW

4x5 net wrap, \$40 ea  
Richard Knight  
Kershaw  
803-427-6440

### '22 4x5 RND CB

net wrap, NR, well fert, stored outside indiv on pallets, \$70/bale  
Eddie West  
Aiken  
803-507-8205

### HQ TIMOTHY ORCHARD MIX

45 lb bales, \$13 ea; Alfalfa, \$15.50 ea; hay cubes of 21 bales, del can be arranged  
Joseph Henson  
York  
803-448-5287

### '22 4x5 HQ CB

net wrap, fert & lime, NR, shed kept, \$75, del avail for fee  
Eddie Chavis  
Barnwell  
803-671-3108

### SQ RYE STRAW

\$6/bale; 4x5 CB, \$65; 4x5 Crabgrass, \$48; shed kept  
Larry McCartha  
Lexington  
803-606-2499

### '22 CB NET WRAP

HQ 4x5, \$70; 4x4, \$50; CQ, 4x5, \$60, all shed kept  
Ray Wells  
Clarendon  
803-460-4676

### '22 4x5 CB

tight wrap, \$60/bale  
Johnnie Legree  
Bamberg  
803-614-4665

### '22 4x5 CB/MIX GRASS

cow/ goat hay, \$40 ea, \$35/6+; ear corn, 50 lb, \$8, no del  
Ralph Fairrington  
Lexington  
803-622-0961

### '22 FESCUE

in barn; '22 Spring Ryegrass, \$80, less for 10+, both 4x5  
Britton McCarter  
York  
704-913-6083

### FB BERKSHIRE PIGS

7 cut males, \$150 ea  
J Painter  
Spartanburg  
864-641-9855

### HERITAGE BREED CROSS PIGLETS

1 gilt, 2 barrows, B-11/28, \$120 ea  
James Doster  
Kershaw  
706-296-9495

### PIGLETS

Kunekune Duroc mix, B-11/7, uncut males, 1 red/1 tan w/blk spots, \$125  
Paige Hicks  
Aiken  
803-645-3933

### RED WATTLE PIGLETS

8-12 w/o, \$100-125  
Ottis Wagner  
York  
704-609-4912

### 4 BERKSHIRE PIGLETS

Al breed, 6 w/o, \$80-150  
Andy Butcher  
Charleston  
864-529-1614

## MISCELLANEOUS

**WOODMIZER DESIGN SAW MILL**  
hyd drive & lift, GWC, \$6500;  
produce cooler, 7'x8', \$1800  
Danny Hege  
Barnwell  
803-793-4187

**MARTIN GOURD RACKS**  
hay rake umbrella design, 12  
gourd hangers, \$60; heads  
only, 16 hangers, \$70  
Pete Jordan  
Darlington  
843-332-3219

**FULL CUT LUMBER**  
(61) 2x6x8, (65) 1x6x10, (3)  
2x4x8, air dry, \$400 obo  
Randy Blackmon  
Lancaster  
803-804-2196

**CARPENTER BEE TRAPS**  
sold & shipped in lots of 5,  
\$85 incl ship  
Bill Timmerman  
Aiken  
803-640-6265

**HONEY BEES**  
5 frame Italian honey bee  
nucs, \$170, early Apr del,  
call now to reserve  
Dale Starnes  
Lancaster  
803-577-7871

**STEEL FERT TANK**  
6000 gal on skids, VGC, \$500  
Charles Horger  
Calhoun  
803-707-1493

**RADIATOR**  
for JD 6620 combine, \$300  
Otto Williamson  
Williamsburg  
843-372-2692

**ORGANIC WORM CASTINGS FERT**  
SC Certified Product, \$20/30  
lb bag; disc on 10+ bags  
Maryann Little  
Lexington  
803-530-9219

**HARDWOOD LUMBER**  
air dried 6 mon, 1x6x8'  
poplar, \$24 ea; 1x8x8' red &  
wht oak, \$40 ea  
R Anderson  
Greenville  
864-234-2918

**LRG SANDBLASTER**  
holds 250 lbs, stored inside,  
\$125; antiq oil dispenser, 50  
gal, crank pump, GWC, \$275  
Edward Berger  
Dorchester  
843-832-9233

**SAND CLAY & TOPSOIL**  
5 ton load, \$60/sand clay;  
\$80 /topsoil, del w/in 20 mi;  
rock or sand, \$2/mi del  
David Wannamaker  
Calhoun  
803-682-2117

**(2) 6000 LBS TRL AXLES**  
w/drum brakes, \$300; JD  
LA115 riding mwr, w/36"  
deck, GC, \$300  
Steve Vernet  
Spartanburg  
864-363-5800

**CEDAR MULCH**  
\$50/p-up load; rnd 7' cedar  
fence posts, \$3 each; cedar  
poles, \$5 ea/8', \$7 ea/10' & 30  
ea/12'; more  
Andy Morris  
Newberry  
803-276-2670

**DEHORNING TOOLS**  
& dehorning, hoof cleaning,  
more, \$25 ea or \$90 for all  
George Whittle  
Edgefield  
803-275-3729

**USED NURSERY POTS**  
1 gal, 15¢; 2 gal, 25¢; 3 gal,  
40¢; 5 gal, 65¢; 7 gal, 90¢  
Brian Gray  
Greenville  
864-908-9777

**DSL WELDER/GEN**  
AC/DC, Miller Bobcat 250D,  
low hrs, 50' of leads, \$5500  
Stanley Taylor  
Chester  
803-789-5236

**'67 JD LAWN TRACTOR**  
mod 110-112, deck w/metal  
rnd fenders & seat, \$675  
Greg Alewine  
Lee  
803-229-2322

**ROLLS OF BALER TWINE**  
for sq baler, \$25/roll, disc on  
10+ rolls  
George McCoy  
Chesterfield  
843-307-8866

**GOURDS**  
for Purple Martin bird  
houses or crafting needs,  
med, \$4; lrg, \$6  
Glen Clamp  
Lexington  
803-673-8013

**'19 KUBOTA DSL ZERO TURN**  
LN, 50 hrs, mod ZD 1011,  
\$12,950  
Jerry Comeaux  
Spartanburg  
864-992-3869

**2 USED 3500 BU GRAIN BINS**  
GC, disassembled, \$6000  
Will Culbertson  
Laurens  
864-981-2474

**6'-25'L 1x6" CEDAR LUMBER**  
cedar posts & util poles,  
\$1-2.50/ft  
James Burns  
Laurens  
864-918-6308

**HUSQVARNA RIDING LAWN MWR**  
hydro drive, 42" cut, 15 hp  
Kawasaki, new battery,  
belts, & blades, \$750 obo  
Otis Hembree  
Spartanburg  
864-316-1222

**OLD COMP FARM BELL**  
old, #3, \$350; xl farm bell,  
w/wheel, comp, \$1200; #20  
hash pots, \$200 ea; #15,  
\$150; more  
Perry Masters  
Greenville  
864-561-4792

**RND CEDAR POSTS**  
cut to var sizes, 4-10" dia,  
6-12' L, \$6-\$12 ea, depend  
on size; cut 4x4, \$2/bdft  
Douglass Britt  
McCormick  
864-391-3334

**RADIATOR**  
for IH 715 combine, \$300;  
new 5hp elec motor, bought  
for grain auger, will work  
w/anything, \$800  
Jason Nichols  
Saluda  
864-992-2753

**55 GAL FG DRUMS**  
metal, \$20 ea; plastic  
drums, 30 & 55 gal, solid  
tops, \$15 & \$20 ea; 275 gal  
Port tow tanks, \$50 ea  
Philip Poole  
Union  
864-427-1589

**LINCOLN WELDER**  
w/24 hp Koehler eng, long  
leads, more, \$500; high  
tensile wire, sev rolls, 1 new,  
3+ used/rolled up, \$200  
Ken Evans  
Lee  
803-464-1370

**HOMELITE SHP IRRIG PUMP**  
new, \$275; lot hose, \$75;  
Rainbird irrig sprinklers,  
\$20 ea  
George Schwab  
York  
803-493-8021

**REAR WHL WTS**  
for FA Cub & FA-A thru 140,  
\$100/set; 2 mule hay rake  
whls, EC, \$50  
Robert Yonce  
Aiken  
803-685-7240

**PECAN WOOD**  
you cut & haul, easy access,  
15¢/truck load  
Manning Richardson  
Lee  
803-459-2056

**FIBERGLASS BEAN STICKS**  
7'L, \$1 ea; 240 lb hanging  
cotton scales, \$100; 39 gal  
hash/stew pot, \$500  
R Long  
Newberry  
803-924-9039

**BACK WHEEL**  
for bush hog, \$25; old farm  
bell, \$50  
Richard Martin  
Greenville  
864-243-4974

**OIL TANK**  
\$75; plastic barrels, \$8 ea; bar  
joists, \$15 ea; port tank, \$35  
Gary Seay  
Spartanburg  
864-578-8214

**2 DUAL TRACTOR TIRES**  
& rims w/7 clamps, 18.4x38  
clamp on, \$600  
William Dozier  
Barnwell  
803-671-1393

**20 GAL AIR COMPRESSOR**  
\$100  
Bobby Dennis  
Newberry  
803-924-2118

**90 GAL GATOR BED SPRYR**  
JD LP20853, \$700  
Cal Norris  
Edgefield  
864-378-2693

**OLD BARN BOARDS**  
& timbers, priced according  
to Dim & cond, \$1+  
Barry Hossler  
Saluda  
803-622-3906

**2 SADDLES**  
cloth & leather, \$250; more  
Paul Kicidis  
Union  
864-429-6112

## PLANTS & FLOWERS

ADS ARE NOT ACCEPTED FROM COMMERCIAL NURSERIES,  
WHICH ARE DEFINED AS HAVING ANNUAL SALES OF \$5,000.

**CAMELIAS**  
Sycamore, Mimosa, Carolina  
Sapphire, \$20; 1 gal Azaleas,  
Tea Olives, Boxwood, \$5; 3  
gal Azaleas, \$10  
FC Noles  
Barnwell  
803-383-4066

**OAK TREES**  
5'T, \$10 ea  
Brian Gray  
Greenville  
864-908-9777

**MONKEY GRASS**  
aka Liriope, Hosta, \$4 ea; Iris,  
Daylily, \$5 ea; Hydrangea,  
Gardenia, \$10 ea  
Woody Ellenburg  
Pickens  
864-855-2565

**CANNAS**  
Pres red, Bengal tiger &  
yellow, \$1 ea, no ship  
Robert Yonce  
Aiken  
803-685-7240

## RABBITS

**REX**  
all colors, yng, \$15 & \$20  
ea; grown bucks, \$15 ea; LA  
cottontails, grown bucks, \$15  
ea; does, \$25 ea; yng, \$15 ea  
Philip Poole  
Union  
864-427-1589

**LA COTTONTAIL CROSSED**  
on MS cane cutter, \$10 ea  
Danny Cook  
Newberry  
803-924-6953

**LA COTTONTAILS**  
\$10  
Duman Wicker  
Newberry  
803-537-7222

**BREEDER RABBITS**  
mostly does, Lionheads,  
Holland Lops, & Dutch, \$20 ea  
Harold Dunagin  
Greenville  
864-630-0758

## SEED

ADS MUST BE ACCOMPANIED BY A  
CURRENT SEED LAB TEST.

**SOYBEAN SEED**  
Glyphosate tolerant, w/  
no patent, cleaned in 50  
lb bags, G-93%, D H SD +  
G-93%, \$20/bag  
Jeffrey Gilmore  
Chesterfield  
843-517-0315

## WANT - LIVESTOCK

EACH AD MUST LIST SPECIFIC ANIMALS.

**5-50 WHT HOMER SQUEAKER PIGEONS**  
Thomas Waters  
Colleton  
843-696-6627

**GUINEAS EGGS**  
for hatching, prefer 2 dz  
Wilmer Schaff  
Chesterfield  
843-498-6622

**SILVER SEBRIGHT TRIO**  
Tommy Axson  
Greenville  
864-350-1450

## POULTRY

**INDIA BLUE PEACOCK**  
6 m/o, friendly, \$200  
Jemima Fellows  
Aiken  
803-443-8572

**CHUKAR QUAIL**  
in flight pen, min purchase  
of 10, \$7  
Wayne Green  
Clarendon  
843-373-2150

**STAGS**  
7 m/o Sweater, \$25; 10 m/o  
Sweater & 10 m/o Kelso/  
Sweater, \$50 ea; Sweater  
hens, \$15-25  
Russell Goings  
Union  
864-426-2309

**20 SERAMA BANTAMS**  
\$50  
Pauline Lane  
Sumter  
803-464-5730

**6 BLUIISH HOMERS**  
& Guinea trios \$50; multi  
spur Blk Sumatra, \$100/5  
adults; Motted Bantam  
Cochins, \$15  
Thomas Waters  
Colleton  
843-696-6627

**CHICKS**  
\$10 ea; hens & roos, \$20 ea  
Mike McBride  
Anderson  
864-992-4301

**SHOWSTOCK OE BANTAMS**  
wht, BB Red, Fawn Duckwing,  
Silver Duckwing, \$30-40/pr  
Harold Dunagin  
Greenville  
864-630-0758

**2 HENS 1 ROO**  
\$15 ea, must buy all & p-up  
Wayne Goude  
Georgetown  
843-558-7150

**GAME**  
Warhorse, Flarry Eye Greys,  
Hatch, Kelso, \$25+/hen;  
\$50+/roo  
Philip Poole  
Union  
864-427-1589

**CHICKENS**  
Buff Orpingtons, Blk  
Australorp, started laying  
11/1, \$30 ea  
Robert Turner  
Orangeburg  
803-596-6463

**GUINEAS FOWLS**  
var kinds, \$20 ea, disc on  
multi taken  
LaVern Raber  
Pickens  
864-868-8015

**BOB WHT QUAIL**  
flight & weather cond, \$5 ea  
John Reed  
Sumter  
803-464-5757

## WANT - FARM EQUIPMENT

**BUSH HOG 2245-QT LDR**  
usable 60 or 66" bucket &  
Ford 1120 grill  
John Pieniadz  
Dorchester  
843-922-2158

**SALVAGE KRONE AM282 DISC MWR**  
w/good slides, 9'  
Jeff Millen  
Chester  
803-209-0893

**G-AC OR FA CUB TRACTOR**  
w/cults  
P C Rikard  
Lexington  
803-609-6207

**CANOPY & ROLL BAR**  
for JD 3020; canopy for JD 4620  
Ashley Rowe  
Newberry  
803-940-0860

**10' GRAIN DRILL**  
pull type, in EC & FR  
Simon Miller  
Spartanburg  
864-303-8002

**NH 1003 STACK WAGON**  
Jimmie Rivers  
Chesterfield  
843-634-6849

**USED AG REAR TIRES FR**  
in GWC for Ford 640-12x28  
rim, will seat 11 to 14x28 tires  
Tim Penninger  
Charleston  
843-670-4437

**2R JD 25B CORN PLNTRS**  
in WC or repairable  
Marion Mackey  
Lancaster  
803-416-7712

**SMALL TRLS**  
5x8 cargo style  
Mike McBride  
Anderson  
864-992-4301

**LDR FOR 4440 JD TRACTOR**  
& D7G w/KG blade & root rake  
Scott Langston  
Oconee  
864-723-0125

**CARBURETOR**  
for Super C tractor, ok if it  
needs to be rebuilt  
Debbie Wade  
Union  
803-581-5050

**STONEWARE MOLASSES JUG**  
sauerkraut crock, vinegar  
jug, more  
Leo Eubanks  
Aiken  
803-335-7796

**5V CRIMP TIN**  
any old farm equipment or  
metal items  
David Wannamaker  
Calhoun  
803-682-2117

**FIELDS OF LONG LEAF STRAW**  
for raking, top prices paid,  
American owned  
David Shull  
Lexington  
803-318-4263

**ANY SIZE WASH POTS**  
syrup kettle, anvils, lrg coffee  
grinder, old lighting rod w/  
balls & weathervane, more  
Perry Masters  
Greenville  
864-561-4792

**ELEC FUEL TANK PUMP**  
goes into 500 gal dsl tank  
Charles Nichols  
Saluda  
864-992-2753

**FERT SETUP**  
for JD 7000 plntrs  
Ashley Rowe  
Newberry  
803-940-0860

**WASH POTS**  
any size & Blksmith anvils,  
farm bells & cracked bells  
for parts  
R Long  
Newberry  
803-924-9039

# STUDY FINDS LINK BETWEEN EVOLUTION AND HERBICIDE RESISTANCE

BY DENISE ATTAWAY, CLEMSON UNIVERSITY

A study of one of the worst weed-control problems facing farmers worldwide – herbicide resistance – has helped a team of scientists determine the genes behind an evolutionary plant trait.

The trait is NTSR, or non-target site herbicide resistance. Clemson University associate professor Christopher Saski is collaborating with researchers from Rothamsted Research in the United Kingdom, the University of Copenhagen in Denmark, and Bayer Crop Science for a study to understand the origins of this trait. The researchers believe this knowledge ultimately may help usher in new herbicides and improved crop management.

“Herbicides are designed to a specific target in plants,” said Saski, an associate professor of systems genetics in Clemson’s Plant and Environmental Sciences Department.

“Historically, the type of resistance farmers have dealt with is called ‘target-site.’ This is where the plant incurs a mutation in the herbicide’s target, resulting in the herbicide no longer being effective so that it no longer kills the weed,” he said.

Target-site resistance typically is linked to a specific herbicide or group of herbicides and is easy to identify and manage. The more complicated problem is “non-target site resistance,” also known as “metabolic resistance.” NTSR involves more changes in the plant than just the target site.

“Non-target site herbicide resistance occurs when the plant is able to detoxify the herbicide or when the herbicide does not reach its intended target,” Saski said. “This form of resistance is much more difficult to identify and manage. This is a really bad situation because it causes the loss of multiple options for weed control.”

The study focuses on black-grass, a grassy weed that is native to Europe and Asia and has been introduced to many other regions of the world, including North America.

Black-grass is considered the most noxious weed of small grains in Europe. It is difficult to control

because it is resistant to many herbicides and completes its lifecycle within the cereal crop growing season. It is also a prolific seed producer, with each plant capable of producing thousands of seeds, allowing uncontrolled infestations to grow rapidly.

Efforts have been made to control black-grass with chemistry but that has led to widespread multiple-resistance to herbicides, especially post-emergent herbicides, which are used after the plant has emerged from the soil.

Pre-emergent herbicides (Flufenacet, pendimethalin, or diflufenican) are more effective



Clemson University researchers are collaborating with researchers from Rothamsted Research, the University of Copenhagen and Bayer Crop Science to better understand non-target site herbicide resistance in black-grass. Photo courtesy of Rothamsted Research.

but NTSR is beginning to threaten these actives too, reducing the available options for controlling this weed.

Researchers at Rothamsted Research have spent years developing the genetic study populations used, two that have independently evolved NTSR and one that was susceptible to herbicides.

To develop a foundation from which to study heritable traits in black-grass, the researchers created a “roadmap” to show where the genes are located on chromosomes. The researchers used genetic analysis techniques to compare the two study populations that uniquely evolved NTSR, to determine genes involved in the trait.

A fundamental question the researchers asked was, “Do traits that evolve independently have the same genetic basis?” Their answer is, “possibly.”

“Whilst we were keen to highlight the genes involved, we also wanted to compare how similar this trait was in different populations,” said David Comont, research scientist at Rothamsted Research. “Understanding how variable this trait is from one population to another can help us understand how best to diagnose and manage this resistance, whilst also shedding light on the evolutionary processes involved.”

The researchers found some overlapping genes involved, as well as some unique ones.

“This suggests this resistance involves a shared ‘core’ set of genes, within a uniquely evolved profile or ‘fingerprint’ from one population to the next,” Saski said.

Since the beginning of time, plants have changed their genetic makeup in response to stresses such as heat, drought, as well as herbicides. Weed resistance to herbicides is increasing worldwide and threatening global food security. Saski said this study can help plan for the future.

“These findings have wide significance for understanding the potential for rapid plant adaptation under novel and changing environments,” Saski said. “Knowledge of the genes (and how they are regulated) that confer NTSR can be used in the design of

new monitoring and mitigation strategies as well as novel herbicides, as well as to help combat herbicide-resistant weeds.”

Data were processed using Clemson’s primary high-performance computing (HPC) resource, the Palmetto Cluster. This supercomputer is used by researchers, students, faculty and staff from a broad range of disciplines for a wide range of research.

In addition to Saski and Comont, other researchers involved in the study include Lichun Cai from Clemson, Dana MacGregor and Claudia Lowe from Rothamsted Research; Roland Beffa and Bodo Peters from Bayer Crop Science and Paul Neve from the University of Copenhagen.

A paper about the research has been published in *New Phytologist*.

## SC NEW AND BEGINNING FARMER PROGRAM ACCEPTING APPLICATIONS FOR 2023

BY CLEMSON UNIVERSITY

South Carolinians looking to launch or grow a farm business have access to comprehensive entrepreneurial education and business training thanks in part to a \$600,000 federal grant.

The grant was awarded in 2022 from the United States Department of Agriculture National Institute of Food and Agriculture (USDA-NIFA) and supports Clemson University’s South Carolina New and Beginning Farmer Program (SCNBFP) through 2024.

SCNBFP is a Clemson Extension Agribusiness public education program focused on enabling new and beginning farmers to be successful, productive and innovative members of their local agricultural community by providing them with the tools, knowledge and skills necessary to be successful

entrepreneurs, sound business managers, exemplary stewards of the natural environment and successful marketers of the unique products they create.

“One in four South Carolina producers are considered new and beginning farmers with less than 10 years of experience,” SCNBFP Director and Clemson Extension Agribusiness Agent Ben Boyles said. “These emerging farmers need targeted training and technical assistance to make sure they have the skills necessary to sustain and grow their new farm businesses. Our program helps participants accelerate the development of their farm business so they can accomplish their goals faster while helping to improve access to healthy, locally produced food for South Carolina consumers.”

To date, the SCNBFP has graduated over 450 new and aspiring farmers from the cohort program.

Registration for the 2023 cohort program is now open to any legal resident of South Carolina, at least 18 years of age, who is just beginning to farm or who has actively farmed for less than 10 consecutive years.

As many as 50 applicants will be accepted for the 2023 cohort program. Additional information, including program outline, workshop schedule, fee structure and an online application can be found at [scnewfarmer.org](http://scnewfarmer.org). The deadline to apply is February 20, 2023.

# CLEMSON RESEARCHER USES COMMON MILLET/KUDZU TO CREATE BIODEGRADABLE FOOD PACKAGING

BY DENISE ATTAWAY, CLEMSON UNIVERSITY

A Clemson University postdoctoral researcher believes she has found a way to use kudzu to create a biodegradable food packaging film as an alternative to plastic.

Sneh Bangar, who graduated from Clemson with a doctoral degree in packaging sciences in December 2022, hopes her research will lead to the use of pearl millet starch and plentiful kudzu vines to put a dent in the roughly 400 million tons of plastic waste produced on Earth each year.

Her dissertation – Development, characterization and application of pearl millet starch-based nanocomposite films reinforced with kudzu cellulose nanocrystals – describes a process to create a biopolymer-based film called Biopack from pearl millet starch reinforced by kudzu weed cellulose nanocrystals.

Biopack is a starch-based film designed to be used once and then to biodegrade.

“The accumulation of plastic waste has created serious human, wildlife and environmental problems,” Bangar said. “Because of increasing consumer consumption, post-consumer packaging has become a major source of plastic waste. There is a great need to develop alternative packaging materials which are environment-friendly, economical and effective.”



Her research uses cellulose nanocrystals from kudzu to reinforce pearl millet starch-based biopolymer films. Pearl millet is a warm-season crop grown throughout the United States for animal feed and fodder. About 70% of each pearl millet grain is starch, which is a renewable, natural and biodegradable polymer.

Starch-based films have some practical limitations, including poor processibility, limited strength and limited high-water absorption capabilities, but modifications can be made to overcome these constraints.

When making starch-based film, starches are reinforced with natural fibers, such as cellulose, a complex carbohydrate that comprises about 33% of all vegetable matter. Humans cannot digest cellulose, but animals such as cows and horses can.

“Cellulose is the most abundant renewable natural polymer on earth,” Bangar said. “Using cellulose nanocrystals to reinforce starch improves functionalities of starch-based films. This research is important because not much work has been done to explore the cellulosic fibers of weed species such as kudzu.”

Kudzu is a weed found throughout most of the southeastern United States. Some estimates suggest it may cover 7.4 million acres in the South.

Kudzu grows well under a wide range of conditions and in most soil types. Although it has been found as far north as Pennsylvania, kudzu grows best where winters are mild, summer temperatures are above 80 degrees and annual rainfall is 40 inches or



more. It is a vigorous weed that can grow enough to smother out neighboring plants or trees. Vines can also cover nearby structures, utility poles, farm fences and more. In addition, kudzu can create environmental problems such as shading out native species in forest understories, altering soil chemistry and decreasing native biodiversity.

Kudzu control is expensive and can take several years to manage. Michael Marshall, Clemson Cooperative Extension Service weed scientist, said herbicides – imazapyr and glyphosate – most often are used to manage kudzu. But this is not an easy task.

“The taproot of each kudzu plant can be up to 7 inches in diameter and 6 or more feet in length,” said Marshall, who is stationed at the Edisto Research and Education Center in Blackville, South Carolina. “These massive storage roots are why kudzu is difficult, almost impossible, to control once established.”

Because kudzu grows abundantly throughout the South and is difficult to control, Bangar believes it would be beneficial to explore new ways to use the plant. Her lab is the first to isolate nanocrystals from kudzu to develop starch-based films reinforced with kudzu cellulosic fibers. In addition to cellulosic fibers and starch, the packaging material also contains clove bud oil.

Bangar used this film to store grapes in a cold setting. After 15 days, she found the grapes had maintained their weight, firmness and soluble solids. Soluble solids in grapes include sugars, organic acids, phenolic compounds, nitrogenous compounds and structural polysaccharides. Total soluble solids are used to estimate grape quality.



“This suggests starch-based films reinforced with kudzu cellulosic fibers and clove bud oil have the potential for commercial packaging of foods during short storage periods without affecting food quality and sensory attributes,” Bangar said.

The best way to dispose of Biopack is by composting. Biopack is designed to completely degrade within 3–4 weeks of disposal. It is designed to degrade into water and provide natural nourishment to the environment. If put into waste bins, the packaging will biodegrade on its own.

As she continues her research, Bangar is focused on developing Biopack for commercial use. Her hope is the product will be used to reduce plastic waste.

“Currently, the cost to commercially develop this biodegradable film is more expensive than plastic,” she said. “But we will continue our study. We hope to produce a film that can coexist with current manufacturing operations. Our focus is to develop active packaging films for wider market acceptability. We want to reduce rather than replace the amount of waste humans are generating.”

Bangar studied for her doctorate under the guidance of Clemson professor William Scott Whiteside. In addition to her dissertation study, Bangar also has participated in other food packaging research. A catalog of articles about her research can be found at [bit.ly/Bangar\\_Research](https://bit.ly/Bangar_Research).

# 2023 SOUTH CAROLINA CHEF AMBASSADORS ANNOUNCED

COLUMBIA — (January 26, 2023) Today, three chefs were appointed South Carolina Chef Ambassadors for 2023.

Lt. Gov. Pamela Evette made the announcement on behalf of Gov. Henry McMaster, along with Commissioner of Agriculture Hugh Weathers and Department of Parks, Recreation & Tourism Director Duane Parrish.

“We’re proud to have these three outstanding chefs represent South Carolina this year as Chef Ambassadors,” Gov. McMaster said. “The incredible culinary skill of these chefs and other chefs like them around our state greatly strengthens our cultural heritage and helps to bring millions of visitors to our state each year.”

Chef Ambassadors represent South Carolina through culinary events and promotional opportunities. This is the ninth year of the program, which was enacted in 2014 to highlight South Carolina as a top culinary destination. The program unites agribusiness and tourism, two of the state’s largest industries, which together contribute tens of billions of dollars to the state’s economy each year and account for hundreds of thousands of jobs statewide.

“The Chef Ambassador program is a unique example of collaboration between two industries that drive our economy, bring visitors to South Carolina, and help feed the world,” said Lt. Gov. Evette.

South Carolina Chef Ambassadors prepare dishes using Certified South Carolina produce, meats and seafood, supporting local farmers and highlighting our state’s food traditions.

“Together, chefs and farmers highlight our state’s agricultural roots and fresh, seasonal foods,” said Commissioner of Agriculture Hugh Weathers. “The Chef Ambassador program also helps lift up rural South Carolina and support South Carolina agriculture.”

South Carolina’s thriving restaurant industry is a key dimension of its appeal as a global tourism destination.



Left to right: Commissioner of Agriculture Hugh Weathers, Lt. Gov. Pamela Evette, Chef Erica McCier, Chef Rob Masone, Chef Marcus Shell, and Department of Parks, Recreation & Tourism Director Duane Parrish.

“From our busy Main Streets to our off-the-beaten-path backroads, South Carolina cuisine is as diverse as it is mouthwatering,” said Duane Parrish, Director of the South Carolina Department of Parks, Recreation & Tourism. “When visitors come to South Carolina, they are lured by both our landscapes and our flavors – and when they leave, they leave craving their next chance to return for more. The Chef Ambassador program showcases some of the best bites the state has to offer, and the 2023 class is poised to further elevate South Carolina’s rich culinary scene.”

The 2023 South Carolina Chef Ambassadors are:

**CHEF ERICA MCCIER**  
**Indigenous Underground | Abbeville, South Carolina**

Chef Erica, also known as Chef Trudy, is the owner and executive chef of Indigenous Underground in historic downtown Abbeville. Formerly a schoolteacher, Chef Trudy went to culinary school after overcoming major health setbacks, and went on to open a catering business known as Trudy’s Personal Chef & Catering and co-found Off Tha Hook Seafood & Grill. Her menu at Indigenous Underground mixes Southern food and global influences.

**CHEF ROB MASONE**  
**Kounter | Rock Hill, South Carolina**

After building an extensive resume as a chef across the country, Chef Rob returned home to Rock Hill to open Kounter in 2020. The Rock Hill restaurant is home to the historic Friendship Nine Sit-In lunch counter, which has given Chef Rob a landing place for his innovative culinary creations.

**CHEF MARCUS SHELL**  
**39 Rue De Jean | Charleston, South Carolina**

A New England native with a seafood background and classic French culinary training who graduated from Le Cordon Bleu Boston, Chef Marcus honed his skills in some of Boston’s finer establishments. He is now Executive Chef at Charleston’s beloved French brasserie, 39 Rue de Jean.

To learn more about the program and past Chef Ambassadors, visit [discoversouthcarolina.com/chef-ambassadors](https://discoversouthcarolina.com/chef-ambassadors).

## SCHOLARSHIP OPPORTUNITY AVAILABLE FOR STUDENTS IN AGRICULTURE OR AN AGRICULTURE-RELATED FIELD

USDA 1890 SCHOLARS PROGRAM ACCEPTING APPLICATIONS UNTIL MARCH 15

BY SC STATE UNIVERSITY

ORANGEBURG, S.C. – The United States Department of Agriculture (USDA), along with SC State University 1890 Research & Extension Program, is now accepting applications for the USDA/1890 National Scholars Program.

Selected scholars are awarded full tuition and fees. The scholarship also covers books, room and board.

“One of Secretary Tom Vilsack priorities is to bring in the NexGen (Next Generation) of employees and leaders to USDA,” said Travis Johnson, USDA liaison. “The USDA 1890 Scholars Program is aimed at bolstering educational and career opportunities for students from rural and underserved communities. This a tremendous opportunity for young energetic students to graduate from college without student loans and have a full-time position waiting on them.” said Johnson.

High-school seniors entering their freshmen year of college, rising college sophomores and juniors are eligible to apply for this scholarship. To apply, the applicant must major in agriculture or an agriculture-related field must have a GPA of 3.0 or higher, a minimum SAT score of 1080 or ACT score of 21 (for high school applicants) and have been accepted to or currently enrolled at an 1890 institution.

Selected students are required to intern with the sponsoring agency each summer. After graduation the student is converted to a full-time employee if he or she successfully completes the required academic and summer work requirements of the program, noted Johnson.

Students majoring in the following disciplines are eligible to apply:

- Accounting
- Agribusiness
- Biology (Non-Medical)
- Business
- Chemistry (Non-Medical)
- Civil Engineering
- Computer Science
- Economics
- Family and Consumer Science
- Marketing
- Management
- Nutrition

“The USDA 1890 national scholars program is a great opportunity for students to advance their careers in the agricultural fields,” said Dr. Louis Whitesides, vice president and executive director of 1890 research & extension. “The agricultural industry plays a major role in the United States, as

it accounts for nearly 22 million jobs. We want to position our students to be in the forefront in their respective fields leading and taking agriculture to a new level.”

The partnership established between USDA and 1890 institutions aims to increase the number of agriculture, food, natural resource sciences and other ag-related disciplines amongst 1890 schools.

For more information on the 2023 USDA 1890 Scholars Program and to apply online, visit [usda.gov/partnerships/1890NationalScholars](https://usda.gov/partnerships/1890NationalScholars).

For more information or to receive help in applying to the USDA 1890 scholarship, contact Travis Johnson, USDA liaison, at (202) 596-4442 or [travis.johnson@usda.gov](mailto:travis.johnson@usda.gov).

USDA is an equal opportunity provider, employer and lender.

SC State University 1890 Research & Extension, in cooperation with the United States Department of Agriculture, prohibits discrimination in its programs on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status.