Even though all year-round we work hard to obtain extramural funds for our activities, in the recent past we have been very busy in this regard. The most important grant program for our research has historically been the 1890 Institution Capacity Building Grant Program, which is a USDA program designed to strengthen teaching and research programs in the food and agricultural sciences by building the institutional capacities of the 1890 land-grant institutions.

If you will allow me to digress a little, I will explain the 1890 system. First, the United States Congress passed the First Morrill Act of 1862, which authorized the establishment of a land-grant institution in each state to educate citizens in agriculture, home economics, mechanical arts, and other practical professions. The three-fold mission of a land-grant institution is teaching, research, and extension. The land-grant system has improved the economic well-being and quality of life for millions of Americans. However, not everyone benefitted from the land-grant system. Under the conditions of legal separation of the races in the South, African Americans were not permitted to attend the land-grant institutions. From 1866 to 1890, several southern states established schools to train African Americans and many of these institutions were similar to the land-grant universities but they did not enjoy land-grant status. This situation was rectified by the passage of the Second Morrill Act by the United States Congress in 1890, expanding the 1862 system of land-grant universities to include historically African American institutions. Many of the African American schools were incorporated into this system and became known as "1890 Institutions." Today, the rich legacy of the land-grant tradition remains prominent on the campuses of 17 public black colleges and universities including Langston University.

Proposals for the 2005 funding-year for Capacity Building were submitted in mid-February and each researcher submitted at least one proposal. We also seek funding support from all other possible sources. While on the subject of grant proposals, please allow me to digress once again. After proposal submission, there is the excruciating wait for the outcome. It is almost like waiting for the birth of a child. This can indeed be a difficult and stressful period for our researchers. One develops a great deal of enthusiasm to carry out the work proposed, so it can be quite disappointing when a proposal is not supported. Relatedly, just recently we received an informal notification that a particular
proposal would be funded, which naturally elicited a great deal of satisfaction, happiness, and excitement for the activities to ensue. Unfortunately, while spirits were still quite high, on the very next day there was a notification that a different proposal submitted to another funding program was not approved. Since we were previously very optimistic about the chances for that proposal, we obviously were quite disappointed, though certainly not clinically depressed depending upon its definition. But, we could not allow those feelings to last long, and so we moved on and will try to do a better job next time.

On the subject of new projects, we recently have had three new visiting scholars join us. The first is Dr. Getachew Animut, who you might recall just completed his Ph.D. degree with us (working with Drs. Arthur Goetsch and Ryszard Puchala) and Oklahoma State University. Dr. Animut will work with Dr. Puchala on a project studying methods to reduce methane emissions. Mr. Sean Chen, from China, arrived in early February to work with Dr. Steve Zeng on a project studying the shelf life of goat cheese. Also, Dr. Maristela Rovai, from Brazil, began a program with Dr. Terry Gipson in late February to work on a project evaluating extended lactation in dairy goats.

For other current activities, both research and extension in nature, Drs. Villaquiran, Merkel, and Gipson, have developed guidelines for determining body condition scores of goats, have developed a web-site (http://www2.luresext.edu/goats/research/bcs.html), and will soon have an extension publication on body condition scoring, a valuable management tool for goat producers. More information on this will be presented at our annual Goat Field Day (see p. 3)

Dr. Ryszard Puchala, ably assisted by Drs. Amlan Patra and Animut, are getting near the end of the animal portion of an experiment investigating the partitioning of nutrients between mohair fiber and tissue gain by growing Angoras.

Spring is also the time when we finalize preparations for our annual Goat Field Day, which will be held on Saturday, April 30, 2005 at the Langston University Goat Farm with registration beginning at 8:00 a.m. This year's theme will be Quality Assurance: Delivering a Wholesome Product to Market. This year, our featured speakers will be Dr. Ann Wells and our own Drs. Steve Hart and Roger Merkel, and they will speak on various aspects of quality assurance in the general morning session.

Dr. Wells is a veterinarian with more than 20 years experience in livestock production. She operated a sheep and goat veterinary practice for 11 years, worked on the ATTRA project for nine years, and recently started Springpond Holistic Animal Health in Prairie Grove, AR.

The Goat Field Day will also have practical afternoon sessions as well. There will be two youth programs in the morning and two in the afternoon. For the younger youth, there will be a craft project and games to play during the morning and afternoon. Older youth and interested adults will be able to participate in a full-day clipping, fitting, and showing workshop.

For complete details of this year’s field day, see page 3.

On page 7 of the newsletter, you will find a tentative schedule of this year’s extension activities. This year’s activities include the annual Goat Field Day, meat buck performance test, cheesemaking workshops, and sustainable internal parasite control workshops. Reserve your place today for the individual workshops.

Make plans today to attend the Goat Field Day
2005 Goat Field Day: Quality Assurance

Our annual Goat Field Day will be held on Saturday, April 30, 2005 at the Langston University Goat Farm with registration beginning at 8:00 a.m. This year's theme will be Quality Assurance: Delivering a Wholesome Product to Market. This year, our featured speakers will be Dr. Ann Wells and our own Drs. Steve Hart and Roger Merkel.

Dr. Ann Wells will speak on herd health quality assurance issues. Dr. Wells graduated from Oklahoma State University School of Veterinary Medicine and has more than 20 years experience in livestock production, including producing and selling lamb and now grass fed beef. In private practice for 11 years and having worked for the ATTRA - National Sustainable Agriculture Information Service for nine years, Dr. Wells now has her own business, Springpond Holistic Animal Health in Prairie Grove, AR. Currently, Dr. Wells works with producers and educators across the country in developing sustainable animal health management plans. Operating a sheep and goat veterinary practice sparked her interest in complementary veterinary medicine. Her philosophy is to focus on the health of the animal through controlled grazing management and stress reduction techniques and strategies. Dr. Wells has also raised organic fresh-cut herbs, sheep, and dairy goats. Products from these sources were direct-marketed to restaurants, up-scale grocery stores, specialty food stores, and individuals.

Drs. Steve Hart and Roger Merkel are coordination leaders of a USDA Food Safety and Inspection Service-funded project emphasizing quality assurance for meat goat producers. The goal of this project is to develop web-based training and certification program materials that will best serve meat goat producers in assisting them to produce a safe, wholesome, healthy product. This project is multi-disciplinary and multi-institutional involving fifteen other universities and producer associations. Dr. Hart’s presentation will focus on the general concept of quality assurance and why goat producers should be interested in quality assurance.

In the afternoon session, participants will break into small-group workshops. There will be a total of thirteen workshops; however, participants will only have time enough to attend three.

Dr. Ann Wells will present the following afternoon workshops:
1. Helping Your Vet Help You - at 1:00 only,
2. Sustainable Parasite Control - at 2:15 only,
3. Injection sites and Drug Availability - at 3:30 only

The remaining afternoon workshops include:
4. Quality Assurance for Goat Nutrition with Steve Hart,
5. Quality Assurance from Farm to Fork with Roger Merkel,
6. Quality Assurance from Milking to Processing with Steve Zeng
7. Basic Goat Husbandry I - hoof trimming, farm management calendar, disbudding, etc. with Jerry Hayes,
8. Basic Goat Husbandry II - pregnancy diagnosis, and other approved drugs with Dr. Lionel Dawson,
9. Body Condition Scoring for Improved Management with Mario Villaquiran,
10. Soapmaking Overview with guest speaker,
11. Benefits of Government Programs - overview of USDA Natural Resource Conservation Service’s work and its cost-sharing program and of the Farm Service Agency’s work with loans for farming activities with Mr. Dwight Guy of USDA-NRCS,
12. General Youth Activities - fun activities for younger youth with Sheila Stevenson, and
13. Fitting and Showing for Youth and Adults - full day workshop with Kay Garrett.
Ms. Sheila Stevenson will host a full day of activities for youth ages 5-12. This will allow the parents and older teens to enjoy the workshops knowing that their little ones are having fun in a safe environment. Last year, some activities included goat education (i.e., goat petting area, goat bingo), pony and horseback riding, fishing, PYOP (pot your own plant), and many other activities. This year’s Youth Fun Tent activities have not yet been finalized but Sheila assures you that they will be as much fun as was the case last year.

Other youth and interested adults will be able to participate in a full-day clipping, fitting, and showing workshop conducted by Ms. Kay Garrett of the Oklahoma Meat Goat Association. Participants will have the opportunity to have hands-on practice of clipping and fitting a goat and then show it before a judge in the show ring.

You can bring your own lunch and picnic on the grounds or you can pre-register for a lunch of barbecued goat, beans, potato salad, refreshments, and goat milk ice cream. Cost of the lunch is only $7.00 per person.

This year we will have a goat milk soap making workshop on Friday, April 29, the day before the Goat Field Day. This will be a hands-on workshop, which will be instructed by an experienced commercial goat milk soap entrepreneur. Principles and basic techniques of soap making will be demonstrated in a variety of soap types and fragrances. The instructor will also share her practical experience and marketing strategies. There will be a registration fee of $15.00 and only the first 15 registrants will be admitted. You must pre-register by calling Dr. Zeng at 405-466-3836 ext 226.

Registration for the Goat Field Day is FREE but there is a $7.00 per person charge for the optional barbecued goat lunch. Please make plans to attend the Goat Field Day now.

For information regarding the 2005 Goat Field Day, contact Dr. Terry Gipson at (405)466-3836 or at tgipson@luresext.edu or http://www2.luresext.edu/goats/library/fd2005.html.
GOAT FIELD DAY

Saturday, April 30, 2005 - 8:00 a.m.
Langston University Goat Farm

Registration for the Goat Field Day is FREE

For more information call (405) 466-3836
or register on-line at
http://www2.lurextemp.edu/goats/library/fd2005.html

Bring your own lunch or you can Pre-Register for Lunch
(BBQ goat, beans, potato salad, refreshments, and goat ice cream; only $7)

INSTRUCTIONS FOR PRE-REGISTRATION (one form per person):
1. Write your name, address, and telephone number below. Indicate if you will be registering for lunch.
2. Select afternoon workshops from each time period to attend from the schedule on the back of this form.
3. Within time period, indicate your first, second, and third afternoon workshop preference.
4. Write a check payable to "RESEARCH SALES" for the amount, if registering for lunch.
5. Mail this form and the check as soon as possible.

PRE-REGISTRATION FORM

NAME: ___________________________________________TELEPHONE: (______)__________

ADDRESS: __________________________________________________________

______________________________________________________________________ ZIP: _____________

Registration for Goat Field Day is FREE; however, there is a fee for lunch. You may bring your own lunch.

Lunch Pre-Registration (Deadline April 16, 2005)

Adults ($7.00 each) _________

Children (12 and under) ($3.00 each) _________

TOTAL _________

Make checks payable to: Research Sales

Please mail this form and check to:

Agric. Res. and Ext. Prog.
Langston University
P.O. Box 730
Langston, OK 73050
ATTN: FIELD DAY
2005 Goat Field Day Registration

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<th>Morning</th>
<th>9:00 - 11:45 a.m.</th>
<th>□ Adult General Session</th>
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<th>Youth</th>
<th>All Day</th>
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<td>□ Youth Workshop #1: General Youth Activities - Ms. Stevenson (All Day)*</td>
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<td>*(Please complete Youth Registration also)</td>
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<td>□ Youth Workshop #2: Fitting and Showing - Ms. Garrett (All Day)</td>
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<th>Afternoon Sessions</th>
<th>1:00 - 2:00 p.m.</th>
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<th>3:30 - 4:30 p.m.</th>
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**Afternoon Workshop Choices:**

*Dr. Ann Wells will present:*

1. Helping Your Vet Help You - at 1:00 only,
2. Sustainable Parasite Control - at 2:15 only,
3. Injection sites and Drug Availability - at 3:30 only

*Remaining workshops will be repeated every session:*

4. Quality Assurance for Goat Nutrition,
5. Quality Assurance from Farm to Fork,
6. Quality Assurance from Milking to Processing
7. Basic Goat Husbandry I \(^b\),
8. Basic Goat Husbandry II \(^c\),
9. Body Condition Scoring for Improved Management,
10. Soapmaking Overview,
11. Benefits of Government Programs,
12. General Youth Activities, and
13. Fitting and Showing for Youth and Adults

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*The Cooperative Extension Program at Langston University, provides educational programs to individuals regardless of race, color, national origin, religion, sex, age, disability or status as a veteran. Issued in furtherance of Extension work, Act of September 29, 1977, in cooperation with the U.S. Department of Agriculture.*

*In compliance with the ADA Act, participants with special needs can be reasonably accommodated by contacting Dr. Terry Gipson (405) 466-3836, at least five business days prior to the Goat Field Day.*

\(^b\)Basic Goat Husbandry I - hoof trimming, farm management calendar, disbudding, etc.

\(^c\)Basic Goat Husbandry II - pregnancy diagnosis and other approved drugs
Dear Goat Field Day Participants:

This letter is to invite you to bring your children (ages 5-12) to enjoy a day full of Fun, Food, & Excitement during the Goat Field Day, Saturday, April 30, 2005. The Cooperative Extension Program will be hosting a “4-H Fun Tent”. Highlights of the day will include: Goat Education (goat petting area, goat bingo, etc.), fishing, face painting, horseback riding, PYOP (pot your own plant) and many other activities.

Please find on the reverse of this letter a participant registration form (feel free to make as many copies as necessary). Fill out one per child and return them with your Goat Field Day registration form so that we may make adequate preparation for the participating youth. Other forms may be needed during your on-site check in. We are excited to have this opportunity to make a positive investment in the lives of our youth.

If you have any questions or concerns, please contact Sheila Stevenson, @ (405) 306-3983 or Dr. Terry Gipson @ (405) 466-3836 x231.

Sincerely,

Sheila Stevenson
Extension Specialist II
"Goat Field Day–4-H Fun Tent"

Registration Form

Name: ___________________________ Age: _______ Sex: (F) (M) DOB: ________________

Address: _________________________ City/Town: ______________ Race: ________________

Phone: _______________ Pager/cell: ______________

Please Note any Health Problems that the Youth has: ________________________________

__________________________

Emergency & Pickup Information

Person responsible for picking up the youth: __________________________ Cell Phone: ______________

Emergency Contact Name: __________________________ Relationship to participant: ______________

__________________________

Waiver, Release and Indemnity Agreement

In consideration of permitting __________________________ to participate in the Cooperative Extension Program “Goat Field Day – 4-H Fun Tent” the undersigned hereby releases and forever discharges the Cooperative Extension Program at Langston University from all claims, demands, damages, actions, causes of action, or suit of any kind of nature whatsoever, and particularly on account of all wrongful death, injuries or damages caused by negligence, known and unknown, both to person and property by the program participant, which have resulted or may in the future develop from an accident which occurred while participating in this program.

The undersigned acknowledges reading the above and is fully aware of the legal consequences of signing this agreement.

Dated this ______ day of ______________________ 2005.

__________________________

Parent or Legal Guardian’s Name (Please Print) Sheila Stevenson, Coordinator

__________________________

Cooperative Extension Representative’s Name (Please Print)

__________________________

Parent or Legal Guardian’s Signature

__________________________

Cooperative Extension Representative’s Signature
Research Spotlight

Abstracted by A. Goetsch

Domiati Cheesemaking.
To investigate the effect of pasture feeding with different levels of concentrate on the milk composition and quality of Domiati cheese, 20 lactating Alpine goats were randomly allocated to four groups. Group A was confined and fed alfalfa hay with 0.66 kg/day of concentrate mixture per 1.5 kg of milk (conventional confinement system). Groups B, C, and D were rotationally grazed and received 0.66, 0.33, and 0 kg/d of concentrate, respectively. Milk from each group was processed into Domiati cheese twice monthly for a 6-month lactation period. Cheeses were sampled fresh and at 1 and 2 months of pickling in whey. Results of the present study indicate that dairy goats with different levels of concentrate supplementation did not affect the composition (fat, protein, and total solids) of Domiati Cheese. Pasture-grazing without concentrate supplementation (Group D) resulted in a lower short-chain fatty acids content and a higher flavor score of Domiati cheese than the confined feeding system (Group A). Cheese age during pickling did not change flavor score but increased the total sensory score due to a smoother, creamier body and texture of cheese. As lactation advanced, contents of total, short-, and long-chain fatty acids and the sensory scores of the cheese fluctuated markedly. Further research is needed to investigate the effect of fatty acids in diets on the profile of fatty acids in goat milk, and to correlate the individual fatty acids in the diet, milk, and cheese to establish the sensory quality of goat cheese.


Eastern Red Cedar Control.
Invasion of grazing lands by Eastern red cedar (ERC) decreases forage availability for livestock and wildlife because of their use of nutrients, shading, and lessening of deep percolation of water, and also poses significant risks for wildfires. Goats can consume ERC, but typically levels of intake are not great. Prior exposure of ruminants to plants with secondary metabolites (e.g., monoterpenes of ERC) can increase their consumption. Therefore, 24 Boer crossbred yearling wethers were used to determine effects of stepwise increases in dietary level of ERC foliage (CF), compared with a constant relatively high level and subsequent availability of low-quality forage, on present and later consumption of CF. A concentrate-based diet (CBD) was offered at approximately 85% of the maintenance energy requirement alone or with weekly stepwise increases in level of substitution of CF for CBD (0, 1.25, 2.5, 5, 10, 15, 20, and 25% in weeks 1-8, respectively; dry matter basis) or substitution of 25% CF in weeks 2-8. CF consumed for 7 wk at up to 25% of the diet did not adversely affect growth rate or health of yearling goats. Slow, stepwise adaptation to CF resulted in slightly greater CF intake in the last 2 wk of adaptation as a proportion of that offered than use of a constant dietary level, although the quantity consumed was similar. Also, without hay access stepwise adaptation yielded greater intake of CF later compared with no earlier exposure or use of the constant dietary CF level when there was no access to a low-quality grass hay. Addition of hay to CF-containing diets did not lessen CF intake, but rather elicited CF intake as great or greater than by goats without access to hay and prevented effects of prior method of adjustment to CF. In conclusion, gradual increases in dietary levels of CF deserve further research as a potential means of elevating present and future CF consumption, but with attention directed to type and level of other feedstuffs offered.

Upcoming 2005 Goat Activities

Buck Performance Test
Are your Boer and(or) Boer-cross bucks fast growing? Are they efficient in converting feed into meat? You can answer these questions by enrolling your buck(s) in the ninth annual meat buck performance test conducted by the Goat Extension Program in collaboration with the Oklahoma Meat Goat Association. The buck test will start on May 7, 2005 and is open to bucks born between December 1, 2004 and March 31, 2005. Complete details of the 2005 buck performance test are available on our web site at www2.luresext.edu/extension/

For information regarding the 2005 buck performance test, contact Dr. Terry Gipson at (405)466-3836 or tgipson@luresext.edu.

Controlling Internal Parasite Workshops
Are internal parasites a major problem for you? Want to know more about controlling internal parasites in your goat herd? We will be conducting two workshops on controlling internal parasites this summer. The first workshop will be held at Langston University on Saturday, May 14 and the second workshop will be held in Anadarko, OK on Saturday, May 21.

Participants will learn about parasite life cycles, dewormers, and alternative treatments, and will experience a hands-on training session on how to conduct fecal egg counts.

Registration for each workshop is limited to 16 participants and the registration fee is $10 per person. Included in the cost of registration are handouts and lunch. The special slide (McMaster counting chamber) for doing fecal egg counts is available for $15 each.

For information regarding the internal parasite workshops, contact Dr. Steve Hart at (405)466-3836 or shart@luresext.edu.

Goat Milk Soap Making Workshop
Because there is a tremendous interest in goat milk soap making, we have planned a training workshop at Langston University in the afternoon on Friday, April 29, 2005 (the day before our annual Goat Field Day). This is a hands-on workshop, which will be instructed by an experienced commercial goat milk soap entrepreneur. Principles and basic techniques of soap making will be demonstrated in a variety of soap types and fragrances. The instructor will also share her practical experience and marketing strategies. There will be a registration fee of $15.00 and only the first 15 registrants will be admitted.

For information regarding the soap making workshop, contact Dr. Steve Zeng at (405)466-3836 or szeng@luresext.edu.
Tentative Year 2005 Activities

In 2005, The E (Kika) de la Garza American Institute for Goat Research will sponsor several extension/education activities. Due to the hands-on nature of the Cheesemaking, Sustainable Internal Parasite Control, and Artificial Insemination workshops the number of participants will be limited. Registration forms for individual workshops are available upon request. Reserve your place today.

If you are interested in receiving future information regarding these events, please check the appropriate box in the form below and return. In compliance with the ADA Act, participants with special needs can be reasonably accommodated by contacting Dr. Terry A. Gipson (405) 466-3836, at least five business days prior to the scheduled event.

N.B. Dates are subject to change and workshops may be cancelled due to insufficient enrollment.

Please mail this form to:
Dr. Terry A. Gipson
Agricultural Research and Extension Program
Langston University
P.O. Box 730
Langston, OK 73050
ATTN: YEAR 2005 EVENTS

Most workshop registration forms are available on the Internet at:

http://www2.luresext.edu/goats/extension/workshops_field_day.htm

GOAT FIELD DAY registration is also available online at:

http://www2.luresext.edu/goats/library/fd2005.html
Noteworthy News

In January, Drs. Tilahun Sahlu and Art Goetsch traveled to Ethiopia as part of the investigative team to develop a potential collaborative project on meat goat production.

In January, Drs. Steve Hart and Terry Gipson and several Langston University outreach specialists traveled to New Orleans, LA to attend The Practical Tools and Solutions for Sustaining Family Farms Conference hosted by the Southern Sustainable Agriculture Workers Group Conference.

In November, Dr. Steve Hart gave a seminar on internal parasites in Eastern Oklahoma to goat producers.

In February, Dr. Steve Hart traveled to the University of Tennessee - Martinsville to give a presentation on pastures for goats.

In February, Drs. Steve Zeng, Terry Gipson and Mr. Ted Alexander traveled to southeastern Missouri to present on goat production and products at the Small Farm Conference hosted by Lincoln University.

In February, Drs. Ryszard Puchala, Steve Hart, and Getachew Animut presented research findings at the Southern Section of the American Society of Animal Science meetings in Little Rock, AR.

Goat Newsletter
E (Kika) de la Garza American Institute for Goat Research
Langston University
P.O. Box 730
Langston, OK 73050