

The Katahdin Hairald

Quarterly Newsletter of Katahdin Hair Sheep International



Volume 28, No. 2

www.katahdins.org

Summer 2016



Welcome New Members

**Mid-February to
Mid-April 2016**

Youth Members

Ann Maqueda of Maqueda Farm.....Elkins, AR
Elizabeth Shulte of Freedom Creek Farm Mountain Home, AR
Evelyn Jordan of Jordan's Katahdins Dumont, IA
Jaclyn Yench of Harrogate West Sykesville, MD
Catherine Voshel of Rowdy Mountain Long Lane, MO
Grant Yoder of G Yoder Livestock Harleysville, PA
Brandon Strupp of Strupp Family Farm.....Hartford, WI

Voting Memberships

Javin & Traci O'Barr of Pleasant Valley Katahdin.....Gallant, AL
Edwin Reed of Reed Family Farm..... Arab, AL
Gary & Malia Brogran of Brogran FarmsRomance, AR
Philip & Cathy Carollo of The Narrow Way..... Yellville, AR
Wayne & Betty Singleton of Jehovah Jireh Farm ... Harrisburg, AR
Bryan Smith of B & E Smith Land, LLCRoe, AR
Tomas Gomez of Garcia Farming..... Arvin, CA
Jonah & Faith Winger of Winger Manor Ranch Somerset, CA
Jessica Glenn & Janet Sampson of Sampson Family Farm
..... Live Oak, FL
Meichelle Griffin of Griffin FarmsAdel, GA
Kathy Wilbanks of EDEN..... Cleveland, GA
Anthony Gorup of Gorup FarmsRaymond, IL
Cliff & Kristen Wilewski Poplar Grove, IL
Ned Gugel of Northwind Farms Paoli, IN
Angelyn Kempe of Kempe Family Farm..... Newburgh, IN
Mike & Sandy SchippersMonroe, IA
Thomas & Amy Knutzen of Promised Land FarmLawrence, KS
Mason Stout of Stout Family Farms Sterling, KS
Eric & Pam Bilyeu of Southern Kentucky Katahdins
..... Russellville, KY
Mitchell & Elaine Devore of Devore FarmMunfordville, KY
Terry E Noe & Vedria M Huffman of Last Mile of the Way Farm.....
.....Stanford, KY
David & Faith Boudreaux of D&F Farms Abbeville, LA

Aaron Slayter, Jr of Slayter's River Rouge PlantationColfax, LA
Horace Calais & Harold Wyatt of Bayou Teche Katahdins
..... Breaux Bridge, LA
Margaret & Patricia Varney of River Meadows Farm.... Turner, ME
Donielle & James Borghardt of Hobbit Creek at Shirefarm
..... Valley Lee, MD
Thane Sheetz of Quixote Clay..... Sturgeon Lake, MN
Michael Bonner of Bonner HillSaucier, MS
Bret Burgess of Burgess Farms Farmington, MO
David Lee Morris of Rolling Hills FarmGranby, MO
Patrick Johnson Zebulon, NC
Timothy J Rhodes of Smohalla Acres..... Salem, OH
Denzil G St Clair of Queen Right Colonies LTD Spencer, OH
Pam Ebert of Agape Oaks Creswell, OR
Bryan D & Mary K Moon of MoonLight Farm, LLC
..... Sweet Home, OR
Steve & Stacy Taylor Timblin, PA
Jonas & Arlinda Swartzlander of Circle JA Katahdin Farm.....
..... Bowesville, SC
Cody Sprecher..... Parkston, SD
Samantha & Hannah Collins of City on a Hill Farm.....
..... Castalian Springs, TN
Hannah McKittrick of McKittrick Farm Wildesville, TN
Amy Neff of Copper Beech FarmNashville, TN
Blaine & Kody Owen of O2 Farms..... McKenzie, TN
Kristina Smith of K & W Farmstead, LLC Jonesborough, TN
Jacqueline Claus of Schonbrook Acres Cumby, TX
Estella Levy of Sin Colita..... Canutillo, TX
Sedrick & Michele Sweet of Rockns Farm Oakhurst, TX
Jennifer Colby of Howling Wolf Farm Randolph, VT
Ellen Heinze of Grams Country Acre Roy, WA
Stacy MacGregor of Rock River Farm.....Gold Bar, WA
Sarah & Jerad Spogen of End of Pier FarmsChehalis, WA
Allan Waller of Treefrog Lane Farm..... Ferndale, WA

Summer 2016

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KHSI Board of Directors

President - Lee Wright
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Advertising

Display Ad Rates ★: Contact Operations for current rates and spec sheet. 479-444-8441, info@katahdins.org

Classifieds - Classified sale ads for Katahdin or Katahdin-cross sheep are free to all KHSI members in the Katahdin Hairald and at the KHSI website. For the Hairald, limit length to 40 words.

Ad commitment for Fall 2016 Hairald due June 29, 2016.

★rates for display advertising are subject to change upon approval of the Board of Directors.

Ad design available from:

Gail Hardy, *Xpressions, Graphics Specialists*
479-439-0726 • gail@xpressionsonline.us
www.xpressionsonline.us



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Directors Corner

2015 WAS GOOD

BUT LET'S DO EVEN BETTER IN 2016

Lee Wright, President

Annual Numbers & Breed Comparisons: The March issue of *The Banner* magazine reports Registrations and Transfers for all major sheep breeds in the U.S. As we noted in the Spring issue, KHSI had an outstanding 2015 for numbers of registered sheep sold (transfers) and maintained numbers of registrations (Table 1.) For the 5th straight year, KHSI led number of transfers for all breeds. In 2013 and 2014, KHSI also led number of sheep registered. But in 2015, Dorpers and Hampshires moved ahead of us in registrations, so let's make it our goal to get back on top and lead every category for 2016!

The best indicator of breed growth is the number of registered sheep sold and transferred. Registrations not transferred more than likely indicate producers retaining breeding stock and expanding their own flock. Transfer numbers help us assess the movement of Katahdins being sold as breeding stock throughout the country. KHSI members should be very proud of our Transfer numbers and

also that our Registration numbers are consistently near the top.

Are there ways we as members can do better? Absolutely! It is KHSI Board policy that recommends sellers register and transfer sheep for your buyers. If more sellers did the paperwork rather than just hand a Registration Application to a buyer, or hand signed Certificates to buyers, our numbers would probably be even higher. Not only is this just good customer service, but it would help to save time and confusion by new owners having to call Operations or the Registry to sort out issues with paperwork or pedigrees they know nothing about. This really starts a new member out on the wrong foot, and sets the wrong trend on how things need to be done in our organization to aid in efficiency and communication.

If the buyer wants a copy, make them a photocopy, and then send the signed originals to the Registry for transfer of ownership. On a regular basis, a new buyer calls KHSI Registry or KHSI Operations and finds out they owe double fees since they didn't know what the correct procedure should be. Many are upset, and rightfully so. KHSI Operations tells me they talked to 10 new members that this happened to in the first three months of 2016. How about we as a breed of motivated producers, take this simple step of registering the animals we sell for our customers. Set the trend of doing things correctly and we'll all benefit and reap the rewards in the future.

KHSI Website & Promotions – The website committee and KHSI Operations are continuing their hard work to make the website a better information tool. They are working to update Breeder Pages to help sell sheep, and create a tab for New Owners/New Members to help answer specific questions. The Promotions Committee is pleased with the Success of the special edition of the *Katahdin Hairald* published in January 2016, "Guide to Katahdin Hair Sheep". This publication covers a wide array of topics and issues facing many producers, new and old. These committees and board members are working to help promote Katahdins, and assist producers in advertising and selling sheep.

National and Regional Sales – There are several upcoming sales this year. By the time you receive this issue of the *Hairald*, the Indiana Katahdin Ewe Sale (4/23) will be over and the Big Ohio Sale (5/12-14) will probably be over. Next on the list are Midwest Stud Ram Sale (6/23), Center of the Nation NSIP Sale (July 23), South Central Katahdin Association (SCKA 8/2-3) KHSI Expo (National Katahdin Sale; 8/6), Virginia Tech Pasture Ram Test (SWAREC, 9/23), Midwest Hair Sheep Sale (Indiana; 10/8). Attending one or more of these events can be a great learning experience, and help you see how your sheep are doing compared to other breeders. Also, it gives you a chance to network with fellow producers by talking and learning from one another.

KHSI Expo – I know of no other sheep breed association that has an educational event that compares to the Katahdin Expo. It is always an excellent event for the price, in comparison with other professional trainings around the country. Check out the schedule of presentations and events on the back cover, and read about a few of them on page 22. Come see some excellent sheep and bid on them at the sale.

Expo registration material will mail in mid-June, and don't forget to make your hotel reservations.

Come out to see your old Katahdin friends, and always plan on making some new ones. I always enjoy meeting and talking with all of you at this annual event. Safe travels to all who are coming, and good luck on a productive year with your Katahdins everywhere.

Table 1. Top 6 Breed Registrations: 2008-2015

| Breed | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 |
|-----------|------|------|------|------|------|------|-------|-------|
| Hampshire | 9032 | 7444 | 7447 | 7760 | 8112 | 6793 | 8459 | 7583 |
| Dorper | 8571 | 7144 | 6335 | 6505 | 6176 | 5045 | 4998 | 5337 |
| Katahdin | 8053 | 8021 | 8338 | 8131 | 6744 | 4753 | 4979 | 5070 |
| Suffolk | 6386 | 7115 | 7439 | 8761 | 9546 | 9811 | 10146 | 11034 |
| Dorset | 5944 | 5521 | 6265 | 6493 | 6045 | 6240 | 7211 | 7434 |
| Southdown | 5235 | 5157 | 5157 | 5072 | 5010 | 5059 | 5026 | 5222 |

Top 6 Breed Transfers: 2008-2015

| Breed | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 |
|-----------|------|------|------|------|------|------|------|------|
| Katahdin | 4784 | 4040 | 4197 | 4456 | 3907 | 2761 | 2584 | 2232 |
| Dorper | 4241 | 3832 | 3374 | 3289 | 2723 | 2645 | 2384 | 2360 |
| Hampshire | 3899 | 3647 | 3435 | 3587 | 3485 | 3390 | 3752 | 3658 |
| Dorset | 3006 | 3062 | 3032 | 3370 | 2912 | 3157 | 3545 | 3680 |
| Southdown | 2645 | 3174 | 2573 | 2573 | 2506 | 2548 | 2426 | 2537 |
| Suffolk | 2294 | 2944 | 2871 | 3094 | 3140 | 3453 | 3934 | 4700 |

Data from The Banner Magazine, Vol 32(2), March 2016.

Veterinary Feed Directive—Allows Sulfa Drugs

Correction to Article in Spring 2016 Hairald

James Morgan, PhD, KHSI Operations

Author's Note: Dr G.F. "Doc" Kennedy, DVM, a member of KHSI, has been active on the Veterinary Feed Directive issues. I want to thank him for sending the following correction to my previous article. Sulfa drugs for treatment of coccidiosis will be able to be prescribed by veterinarians for usage by sheep producers.

The Food and Drug Administration is implementing new regulations called the Veterinary Feed Directive (VFD) that will go into effect on January 1, 2017. It greatly restricts the ability of veterinarians to prescribe antibiotics to be used in feeds. Any antibiotic being fed needs to have a VFD in place with a licensed feed mill. All producers that have animal problems that can be treated by antibiotics in feed will need to have a veterinary client relation in place.

See the article in the last Hairald for more information. Also, many state extension services are writing

articles and veterinarians are also good sources of information.

In the article written for the Spring 2016 Katahdin Hairald, it was incorrectly stated that the sulfacompounds commonly used to control coccidiosis would no longer be legal to use in sheep.

The correct interpretation of the VFD ruling is that these sulfacompounds **can be prescribed by a DVM**. These drugs include sulfamethazine marketed as Sulmet®, sulfa dimethoxane marketed as Albon® and sulfaquinolaxline **will still be usable by sheep producers** to treat coccidiosis outbreaks. These drugs are considered by many to be the best tool to control coccidiosis, once a coccidiosis outbreak occurs or a lamb has a severe infestation. There are management strategies and pharmaceuticals (coccidiostats) that are preventatives.

In the past, producers have been able to buy the sulfa drugs at animal health and feed stores. To be in com-

pliance after January 1, 2017, these drugs will need to be prescribed by a licensed DVM.

Bottom line: don't wait until January 2017--talk to your veterinarian soon about what VFD regulations could mean for your sheep operation.

A Guide to Katahdin Hair Sheep

available now.

Download from website

or send \$3 to

KHSI Operations

PO Box 778

Fayetteville, AR 72702

SHA

"Producing lambs that are not out of step. . .but a step ahead."

Shauck Livestock Farm

Registered Katahdin Sheep



SHA 1552 - Fall Ewe Lamb
Sired by SCD3331
(David and Jane Smith)

Look for us at the:
Midwest Stud Ram Sale
KHSI Expo



TMD 1471 with her TRIPLET RAM LAMBS Sired by PBB 1264

She is the Twin sister to Dosch Champion Ram at the 2015 Midwest Stud Ram Sale

Shauck Livestock Farm • 69 Greystone Rd. • Eldon, MO 65026

Bob Shauck • 417-207-5649 • lostdog1946@gmail.com

Vickie Thomas • 816-560-0166



"Amadeus" - Twin
out of David Coplen ewe

Look for "Amadeus"
at the KHSI Expo

Economic Impacts of Inbreeding

James Morgan, PhD,
Arkansas Katahdin Breeder

Although most breeders take great care to avoid mating closely related animals, those that do may not realize the impacts inbreeding can have on the bottom line. Research shows that inbreeding decreases numbers of fertile ewes, lamb survival to weaning and rate of gain. These are the main profit drivers for commercial production of meat. Are there any benefits to inbreeding? There are some, but it is important to identify the systems in which inbreeding (often referred to as line breeding) has beneficial effects.

Inbreeding is defined as the mating of related individuals. The degree of inbreeding is calculated as the inbreeding coefficient (Fx). Many sheep management programs will calculate this coefficient for you (formulas for calculating this are in the SID Sheep Production Handbooks available from American Sheep Industry and many

Table 2. Average Impacts of Inbreeding Depression

| Trait | Change/0.1 Fx | Half-sib or Grandsire-Granddaughter Mating; Fx = .125 |
|--|---------------|---|
| Birth wt (lb) | -.037 | -.468 |
| Weaning wt (lb) | -.244 | -3.05 |
| Ewe Fertility (%) | -1.4 | -17.5 |
| Litter Size (# born) | 0 | 0 |
| Lamb Survival to Weaning | -2.78 | -34.8 |
| From: Lamberson & Thomas, 1984. Animal Breeding Abstracts 52:287-297 | | |

textbooks for livestock genetics). The inbreeding coefficient (relatedness) of a grandsire to granddaughter mating is 0.125 or 12.5%. This means that offspring of such a mating on average are homozygous at 12.5% of their genes.

Heterosis or "hybrid vigor" (the mating of unrelated animals) results in improved performance whereas inbreeding results in the loss of heterosis and a decrease in performance termed "inbreeding depression".

Inbreeding depression has its largest impacts on reproductive fitness and lamb survival. For commercial production, these are the best predictors of marketing dollars per ewe. The impacts of inbreeding on several traits are presented in Table 2. Data was collected from over 5000 sheep with varying levels of inbreeding.

Let's compare the predicted impacts of breeding 100 inbred ewes (Fx = 12.5) with

100 non-inbred ewes in Table 3. First, we need to detail where the numbers come from. On average for a decent management program, non-inbred ewes have 3% infertility rate and a 5.2% lamb loss to weaning. So, the inbreeding depression impacts are added on top of those losses. Data from the National Sheep Improvement Program for registered Katahdin sheep documents an average prolificacy of 2.1 lambs/litter for a mature ewe bred in mid-September through November. Average weaning weight varies between management systems, feeding and weather. A commercial flock, doing economical nutrition with some forage and some creep feeding, can expect weaning weights of 40-60 pounds and for 3 year old ewes a 50 pound average is doable. (Note: flocks feeding for maximal gain may have average weaning weights over 60 pounds).

On average, there will be close to a 50% decrease in pounds of lamb marketed by breeding ewes with a 12.5% inbreeding coefficient.

Are there any benefits to inbreeding? There are some, but in most

CONTINUED ON PAGE 5

| Table 1. Inbreeding Coefficients of Related Individuals (Fx) | |
|--|--------|
| Mating | Fx |
| Full brother-Full Sister | 0.25 |
| Sire-Daughter, Son-Dam | 0.25 |
| Half brother-Half Sister | 0.125 |
| GrandSire-Granddaughter, Grandson-GrandDam | 0.125 |
| Uncle-Niece, Nephew-Aunt (where Uncle/Aunt is a half sib of Sire/Dam of Nephew/Niece) | 0.0625 |
| Uncle-Niece, Nephew-Aunt (where Uncle & Aunts are full siblings of Sire/Dam of Niece/Nephew) | 0.125 |
| Great Grandsire-Great Granddaughter, Great Grandson & Great GrandDam | 0.0625 |

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www.warmspringskatahdins.com

Table 3. Expected productivity of two flocks of 100 3 year old Katahdin ewes comparing non-inbred with inbred ewes (Fx=0.125)

| Trait | Fx = 0 | Fx = .125 |
|-------------------------------|--------|-----------|
| No. of ewes lambing | 97 | 80 |
| No. lambs born | 204 | 168 |
| No. lambs surviving | 193 | 101 |
| Average weight of weaned lamb | 50 | 47 |
| Lb. lamb weaned | 9659 | 4740 |
| Lb. lamb weaned/ewe mated | 97 | 47 |

Table is based on one used by Dr Dave Thomas, U of Wisconsin sheep geneticist in his livestock genetic course.

Numbers rounded to the nearest whole number. Data for sheep enterprises find a 3% infertility rate for non-inbred ewes and a 5.2% loss for lamb survival. In registered NSIP flocks breeding in mid-Sept thru Dec, mature Katahdins average 2.1 lambs/litter. Assuming a 50 lb lamb average weaning wt at 60 days for moderate nutrition in a commercial flock (not maximal feeding)

sheep production systems, the loss of reproductive efficiency and lamb survival greatly outweigh the benefits. Inbreeding can be used to identify deleterious genes and remove them. Inbreeding can be used to develop prepotent (breed true) lines of sheep with more consistency. The offspring

greatly reduce productivity with inbreeding (Table 3).

What about line breeding? Line breeding is a more structured or purposeful form of inbreeding. Family members of a ram or ewe with outstanding characteristics can be bred

of breeding an inbred line to a very unrelated line will increase heterosis and often improve performance.

Poultry and plant breeders are able to take advantage of increased heterosis by crossing highly inbred parent lines, since a female plant or hen will have hundreds of offspring/year. But since sheep and cattle have much fewer offspring, most flocks will

back to each other. In most cases, it is recommended that these matings are three generations removed. For example, a great grandsire bred to his great granddaughters. Line breeding concentrates or "fixes" the desired characteristic and increases consistency in the offspring (but at the expense of having fewer fertile offspring and lowered lamb survival). Line breeding is particularly effective with increasing consistency of conformation. Thus, line breeding can be an effective tool for increasing the percentage of offspring that have the ancestor's preferred conformation but there will be some inbreeding depression for reproductive efficiency.

Note that mating an inbred animal to an unrelated animal results in offspring that are not inbred. This is not universally appreciated.

In summary, close matings often have huge detrimental impacts on lamb growth, numbers of lambs weaned and ewe fertility, thereby greatly decreasing profits for commercial operations and most registered flocks.

Different.*

Hello. We're Sturdy Post Ranch. We specialize in breeding **super ewes**. We continue to keep Katahdins different by raising low maintenance, hardy, efficient ewes that simply work. We are a good ol' fashioned, hard working, down to earth husband and wife (and 3 darn awesome children!) team who invest the extra effort and care it takes to be "different".

***Look for our super ewes at the Midwest Stud Ram Sale**

Justin & Crissa Fruechte 605.690.3309 www.sturdypostranch.com





Salmon Run Farms

Sabattus, Maine

POY 216 — Pale Ale

★ High Selling Katahdin at 2015 Midwest Stud Ram Sale ★



First Birthday - Straight out of Winter Pasture



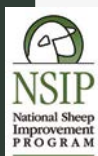
Ready for Spring Breeding

Thank you Jeff and Jan Poynter for this wonderful opportunity.

We have a 50 acre farm in a rural Maine township that breeds exceptional Katahdin Sheep to exacting standards. As a member of NSIP we believe EBV'S are important to the future of sheep breeding and use EBV's as one tool to improve our breeding program. We strive for a high level of parasite resistance, excellent hair coats, and strong maternal traits that produce fast growing lambs with correct structure, balanced thickness, consistent eye appeal and dependable temperaments. A good ram helps too and we have a great one!



First of POY 216 "Pale Ale" lamb at 7 weeks



Member:
KHSI
NSIP
MSBA



Leslie Raber
Sabattus, Maine
SalmonRunFarms@gmail.com
Salmon Run Farms on Facebook

Hairald Calendar

KHSI periodically posts information on sheep sales and sheep events as a public service. Posting sale and event information does not imply endorsement or verification of the claims of any sale or event. Sales and events posted are not sanctioned by KHSI unless otherwise noted. Contact the KHSI Operations Office to ask for your event or sale to be posted. 479-444-8441 or info@katahdins.org

Have You Paid Your 2016 Dues? Send them ASAP to KHSI Operations, PO Box 778, Fayetteville, AR 72702.

June 4, 2016. 7th Annual Midwest Junior Preview Show. Sedalia, MO. Missouri State Fairgrounds. Contact information: midwestshow@hotmail.com or Kate Lambert, 1105 N Main Street, Brookfield, MO 64628, 660-541-0468. Go to midwestjuniorpreviewshow.com/ to sign up for an online newsletter, find more information or to donate to the Midwest Junior Preview Show premium fund.

****June 20, 2016. Leroy Boyd Memorial Junior Show.** Sedalia, MO. Katahdin only show. Contact Henry & Becky Shultz 573-682-5481 or beckyshultz@msn.com or www.midwestsale.com for more information. See Focus on Eweth article in this issue for more activities.

****June 20-23, 2016. Midwest Stud Ram Show and Sale.** Missouri State Fairgrounds, Sedalia, MO. Katahdins show on the 21st and sell on the 23rd. Event lasts from 20-25th with other breeds showing and selling throughout the week. www.midwestsale.com, boelke@midwestsale.com or 218-770-2248. Catalog available at website on June 1 or by mail

****June 22, 2016. KHSI Hair Coat Inspection Training.** 1-3 PM, Adam Kilmer's Farm, 15726 Hwy C, Versailles, MO. 65084-4805. Contact KHSI Operations at 479-444-8441, info@katahdins.org (warm winter they could shed early so check with us).

****June 22, 2016. Annual Midwest Katahdin Hair Sheep Association Meeting.** Sedalia, MO, 4:30 PM.

****June 30, 2016. Youth Scholarship Applications due.** info@katahdins.org, PO Box 778, Fayetteville, AR 72702 or 479-444-8441.

****August 2-3, 2016. SCKA Annual Meeting and Field Day.** Caney Creek Farms, Chapel Hill, TN. Contact Kathy Kieffer for more information. 931-703-0239, caneycreekfm@united.net

****August 4-6, 2016. 12th Annual Katahdin Hair Sheep International Expo.** Annual KHSI Educational Workshop, Membership Meeting and KHSI National Sale. At Hyder Burks Agricultural Pavilion, Tennessee Tech University, Cookeville, TN.

September 24, 2016. 5th Annual Virginia Tech Southwest AREC Pasture Ram Test Sale & Field Day. Glade Springs, VA. Date to be determined later. Rams evaluated for growth, loin eye depth and parasite resistance on pasture. Contact Lee Wright, lrite@vt.edu, 276-944-2200

September 27, 2016. Big E Katahdin Open & Junior Show. 1 PM, Springfield, MA. Watch the website for entry information and to verify date of show. <http://www.thebige.com/general-info/>

November 13, 2016. Kennedy Family National Katahdin Junior Show. Louisville, KY. NAILE. <http://www.livestockexpo.org/> Final date set in May.

November 17, 2016. Katahdin Open Show. Louisville, KY. NAILE (North American International Livestock Exposition). Final date set in May. <http://www.livestockexpo.org/>

**** - Indicates there is an article with more information in this issue of the Hairald.**

NOTE: Sales are listed in the Sale Roundup Feature elsewhere in this issue.



croftland Farm LLC

Registered Katahdins (prefix FWL)
& Polled Dorsets
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E: MFOWLFARM@MSN.COM



Genetics
that work!

**See You
at the
KHSI
Expo!**

Leon Gehman
717-405-6010 Williamsburg PA
LCRanch@emypeople.net

FROM THE FEED TROUGH . . . Stocking Density

Woody Lane, Ph.D. © 2007

*Editor's Note: In this article, Dr Lane writes about using high temporary stocking densities to better utilize grasses such as fescue and reed canary grass in mixed species pastures. While your pastures may not have either of those grasses, they surely have weeds or grasses that sheep do not prefer to graze. As you read this, think about species that may be more common in your region such as cheat grass (certain invasive *Bromus* sp) that is just starting to go to seed or broomsedge (*Andropogon virginianus*). Also, most over mature grasses are not palatable, but they can be grazed by dry ewes on maintenance rations-even when stocking shoulder to shoulder.*

As this year's pasture season is winding down, it might be a good time to reflect about one of the most useful tools in our grazer's toolbox: *Stocking Density*. And as we discuss various aspects of it, you might think back to your own operation, relating how these concepts played out this year and how they might apply in the future.

What is this term *Stocking Density* (SD)? Actually, it's really quite simple — it's the number of pounds of animal biomass per acre. That's it. Just add up the pounds of animals in the herd/flock/pod/whatever — regardless of species — and divide by the number of acres they are currently grazing. Here's an example: if I have 23 adult cows and their calves on 4 acres (one calf per cow), and the cows and calves average 1,200 and 400 lb, respectively, then my SD is 9,200 lb/acre ($= 1,200 \times 23$ plus 400×23 all divided by 4).

Since SD is just a weight of grazing animals per area, independent of species, we can generate 9,200 lb/acre on our four acres in many other ways: 460 lambs each weighing 80 lb. Or 28 horses that average 1,314 lb. Or 283 goats that average 130 lb. Or, for that matter, 4 African elephants that average 9,200 lb. Numerically, these are all the same.

In essence, SD is really an arithmetic snapshot of how much animal mass is on the land at a specific point in time. I can increase SD by simply confining the animals in a smaller area — i.e. by moving the electric fence. Confining all those animals in two

acres results in a SD of 18,400 lb/acre. Confining them in one acre increases the SD to 36,800 lb/acre. (Let's ignore the practical problems of trying to confine 4 elephants in one acre).

I must mention an important distinction: *Stocking Density* is not the same as *Stocking Rate*. *Stocking rate* means the number of animals per acre over a period of time, based on a standard animal unit (in the U.S.) of a 1,000 lb cow with a calf by her side. *Stocking Rate* is *not* a snapshot; it's more like a broad description of the number of animals the land can support *over time*. We should think of these two concepts separately: SD as grazing pressure; stocking rate as carrying capacity. In practice, stocking rate is primarily a tool in dry range country, where the number of stock in an area is one of the few things that ranchers can manipulate to manage their forage. But improved pastures are a different world than range country. Graziers managing improved pastures can easily manipulate many things to alter the amount of feed in those pastures — like reseeding or adding fertilizer and lime. SD is a precise and flexible number, ideal for understanding and managing these pastures.

So, how can we use this SD concept? The most obvious way is to numerically monitor the actual grazing pressure on fields of different sizes. Let's say that four fields on my farm are 5, 12, 19, and 32 acres. My flock consists of 500 ewes averaging 150 lb, which gives a total biomass of 75,000 lb. Grazing this flock on the 5-acre field generates a SD of 15,000 lb/acre ($= 75,000 \div 5$). When I move this flock to the other three fields, I reduce the SD values to 6,250, 3,947, and 2,344 lb/acre, respectively.

Let's study these numbers. It's clear that the grazing pressure on the 5-acre field is more than *six times* the grazing pressure on the 32-acre field. In your opinion, which field would have more problems with weed encroachment? Which field would have a more homogenous distribution of manure? Which field would show a more uniform amount of residual forage?

The SD concept works just as well with small flocks and herds. For example, if I own a flock of 25 ewes averaging 150 lb, my total biomass is

3,750 lb. That doesn't sound like much, and fencing these ewes on one acre results in a SD of only 3,750 lb/acre. But when I move the electric netting to confine the ewes in only a $\frac{1}{2}$ acre, then I've doubled the SD to 7,500. And if I halve that acreage again to $\frac{1}{4}$ acre (a square of 104 feet on each side), my SD then becomes 15,000 lb/acre, which has exactly the same effect on forages as 500 of these ewes on 5 acres. (With small operations, it's also useful to remember is that one acre equals 43,560 square feet.)

But will animals get enough to eat at a high SD? Of course they will — *if* we move them off the pasture at an appropriate time. Let's figure it out. If our pre-graze pasture contains a *total mass* of 3,300 lb/acre, and we target a *residual mass* after grazing of 1,000 lb, then each acre contains 2,300 lb of feed (also called *available mass*). Let's say we aim for a SD of 30,000 lb/acre. If we assume a ewe feed intake of 5% body weight, including trampling loss, then the daily intake of 30,000 lb of animals will be 1,500 lb ($= 30,000 \times 0.05$). Therefore, these animals can stay on that field for 1.5 days. If we leave them for an extra 12 hours, they'll eat more feed and reduce our residual. And if we leave them for a week, we'll end up with a putting green and hungry animals. On the other hand, if our goal is to control weeds or prepare that field for reseeding, then a SD of 30,000 lb/acre for three days would definitely help us attain those goals. And notice — these calculations can be done *before* we put a single animal onto that field.

SD has other practical applications:

It can help us solve problems with palatability and preferential intake. We know that animals always select the most palatable plants first and also avoid the less palatable plants. But a high SD forces animals to eat everything or starve, especially once they are trained to it. A good example is tall fescue, which is a valuable forage species that many graziers dislike because animals notoriously avoid it. Well, at a SD of 1,500 lb/acre, this is certainly true. But what about 10,000 lb/acre? Or 20,000 lb/acre? I've personally

CONTINUED ON PAGE 9

observed on my place that ewes will consume tall fescue quite nicely at a SD of 18,000 lb/acre.

Speaking of forage species, we can use the SD concept to manage some specialized forages, particularly those that require a high SD for good management. Two good examples are alfalfa and reed canarygrass (RCG). Although alfalfa is most easily managed as a hay crop — cut all at once with a low residual and then allow a long rest period — we can graze it the same way if we use a high SD. The animals can graze off the forage quickly and evenly, and then we can remove them to allow proper regrowth.

Reed canarygrass is an entirely different type of forage. Animals definitely avoid RCG when they have alternative selections, but RCG can be one of our most productive forages if we manage it right. We need to fence off the RCG areas as specialized paddocks and create a high SD to force proper grazing. We can use trial and error. Will 20,000 lb/acre do the trick? If not, then try 30,000 lb/acre.

Or 40,000. The SD is easy to change — just move the electric fence closer to reduce the acreage for that herd.

Have you ever tried to renovate a field using the *tread-in method* of seeding (also called the *hoof-and-tooth method*)? The rule of thumb for this technique is that we need a SD of at least 30,000 lb/acre to push the seed into the soil effectively. In perspective, that's equal to 25 cows per acre at 1,200 lb per cow.

We can also use SD as a training tool. Novice graziers are usually quite cautious when they first begin intensive grazing. They are reluctant to graze too tightly, so they set their cross fences far apart, creating a SD of only 4,000 lb/acre or so. While this is better than set-stocking, it's still a very conservative management. But as graziers improve their skills at judging forage mass and intake levels, they move their electric fences tighter and tighter. Soon, they are routinely grazing with SD at 7,000 lb/acre, then 10,000 lb/acre, then 20,000 lb/acre. The higher SD reflects their growing

confidence and skill. Manure distribution becomes more uniform, and the residual is better controlled. And their pastures become denser and more productive.

I know a local dairy farmer who uses intensive grazing brilliantly. We've done SD calculations on those fields — his SD values are routinely higher than 50,000 lb/acre. Of course the animals are moved every 12 hours — this is a dairy farm, after all — but what do you think his pastures look like? Very dense forage, extremely homogenous, green, and productive, with no manure pats and few weeds.

Yes, intensive grazing is an art. But it's also a science. And with a calculator, we can plan and monitor and manage. And then see the difference.

Woody Lane is a nutritionist in Roseburg, Oregon. He operates an independent consulting business "Lane Livestock Services" and teaches nutrition, sheep, beef cattle, and grazing workshops across the United States and Canada. His email address is woody@woodylane.com

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Katahdin Sale Round Up

KHSI periodically posts information on sheep sales and sheep events as a public service. Posting sale and event information does not imply endorsement or verification of the claims of any sale or event. KHSI encourages the use of performance records and production data as the primary means of selecting sheep instead of emphasizing visual appraisal typical of most shows, sales, and auctions. Sales and events posted are not sanctioned by KHSI unless otherwise noted. Contact the KHSI Operations Office to ask for your sale to be posted. 479-444-8441 or info@katahdins.org

****June 23, 2016. Midwest Stud Ram Sale.** 8 AM Missouri State Fairgrounds, Sedalia, Missouri. www.midwestsale.com or boelke@midwestsale.com or 218-770-2248. Catalog available at website on June 1 or by mail. (Ice Cream Social at 7 PM night before Katahdin Pens. KHSI/MWKHA sponsored coffee, donuts & bagels at pens 6:30 AM-7:30 AM day of sale)

****July 16, 2016. Annual Washington State Sheep Producers Ram & Ewe Sale.** Moses Lake, WA Grant County Fairgrounds.

July 23, 2016. Center of the Nation NSIP Sale. Spencer, IA. 1 PM. Catalog at <http://www.conoverauction.com/online-catalogs.html>

****August 2-3, 2016. SCKA Annual Meeting, Field Day & Private Treaty Sale.** Caney Creek Farms, Chapel Hill, TN. Kathy Kieffer for more info. 931-703-0239, caneycreekfm@united.net

****August 6, 2016. 12th Annual National KHSI Expo & Sale.** 11:30 AM. Hyder Burks Agricultural Pavilion, Tennessee Tech Univ. Cookeville, TN. www.katahdins.org or James Morgan at 479-444-8441 or info@katahdins.org Consignment deadline June 15, 2016. (Ice Cream Social 7 PM August 5th at pens; Sale Animal Viewing at 8:30 AM day of sale).

September 24, 2016. Virginia Tech Southwest AREC Pasture Ram Test Sale & Field Day. Glade Springs, VA. Rams evaluated for growth, loin eye depth and parasite resistance on pasture. Presentations prior to the Sale. Contact Lee Wright, lrte@vt.edu, 276-944-2200

October 1 or 8, 2016. Annual Midwest Hair Sheep Sale. Salem, Indiana. Washington County Fairgrounds. Finalized date and time set later. washingtonces@purdue.edu or 812-883-4501. www.wcsheep.org/wcsheep.org

******- Indicates there is an article or ad with more information in this issue of the Hairald.

Sending in Registry Work? Make sure you have addressed your envelope with a Pennsylvania Address not Milo, IA

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Some of our naturally born fall ram lambs are pictured here. The majority of our spring born lambs carry these same genetics. They are sired by fall born rams or rams that have consistently bred for fall lambing. Having these aseasonal genetics has proven to give us an advantage of lambing whenever we want to have lambs, as well as increasing the lifetime productivity and profitability of the ewes. So if you are looking to add some out of season lambing to your flock, give us a call and/or stop in and take a look. As always, visitors are welcome.

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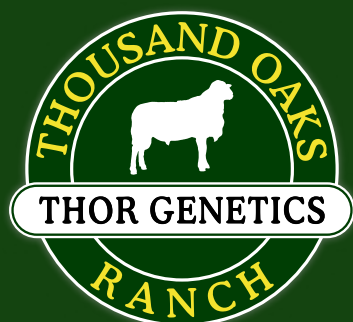
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Drones & Sheep Farming

James Morgan, PhD Arkansas

Author's Note: I've been thinking for the last few years about sending a drone out to the far end of my pasture when I hear dogs barking or upset sheep. In the future, with more computer power and real time video in agriculture, having a drone that could fly at a dog which is harassing/harming sheep and which could blast a horn at the dog might not be too far-fetched.

*Being fixated on domestic dog predation, I hadn't considered some of the other uses of drones until reading an article written by Dr Cathy Gallivan in the Spring 2016 issue of **Sheep Canada**: Vol 31(1) 27-28. "Is there a drone in your future?"*

Computers and technology are making inroads into agriculture in many ways. Crop agriculture is using GPS navigation, coupled with field fertility maps and soil structure, to optimize fertilizer application and seeds/acre in real time during planting. Sheep producers in New Zealand have automated gates, scales, blue-tooth and electronic ID (EID) to

weigh lambs. In a New Zealand video viewed last year, I watched a lamb being weighed every half second with automation. Sequence included a) gate into scale automatically opens and lamb jumps in, b) EID of lamb scanned and scale reading transmitted by blue tooth to computer, c) as soon as data is written to computer, head gate opens and lamb surges out, d) head gate begins to close, and back gate to scale opens so next lamb can jump in. It took a half a second.

But what about drones? Shepherds in New Zealand and Australia have already implemented cost- and time-saving procedures using drones with video cameras. These decrease time involved in driving out to monitor water trough level or checking for ewes having lambing problems. Users say that with ewes less accustomed to humans or vehicles, drones are ignored by the ewes and don't result in mis-mothering caused by 4-wheelers or humans walking near ewes with new born lambs. Another producer has a horn on his drone and uses it

to move sheep by zigzagging back and forth like a herding dog and beeping the horn. It takes much less time to fly a drone over a 2000 acre ranch to check water, grass or ewes than to drive to the closest bridge over a stream or river. A drone can check for sheep on the other side of a stand of trees. Cost savings include time, labor, wear and tear on trucks or ATVs and fuel. A drone can cover the same amount of territory in one-tenth to one-half the time depending on the terrain and road access.

In her article, Dr Gallivan writes about a sheep

farmer on 1675 acres who could drive the farm to check the sheep in 2 hours and do it with a drone in 30 minutes. That means it can be done much oftener and his newborn lamb loss has dropped by 50%. That farmer also checks water levels with the drone.

In town and you want to know if those ewes have started to lamb? In the future, while in town, you can send the drone out from your barn with your cell phone or tablet, have it check the pastures and you can view the videos. Then call your husband and tell him to shut off the TV and go help that ewe.

Some other potential uses of drones from Dr Gallivan's article are listed below:

SAVING TIME

- Sheep out. Fly the drone along the fence and find the exact spot and determine which tools are needed to fix the fence.
- Much faster than driving over a large farm/ranch

SAVING MONEY

- Time? Labor
- Reduced vehicle wear and tear.
- Reduced death or losses by monitoring more often

HUMAN WELFARE

- Using drones to fly over steep hill-sides or to cross high water streams can prevent death or injuries.

FARTHER IN THE FUTURE


Even more time-saving advances will come in the future as computer networks are developed that are able to a) watch the video for you and beep when there are issues or when b) grass has been eaten to 2 or 4 inches, c) coyote/dog in the pasture, d) lambing difficulties, e) lamb left behind flock, f) lambs with dags indicating coccidiosis, g) sheep with bottle jaw, h) sheep with depressed behavior and i) count the number of sheep in the flock or the number of lambs. The pre-programmed drone could wake you up in the middle of the night.


All sounds good, though it will be a while before drones will replace the need for human appraisal. I can see that we may need that gym membership to make up for all the lost exercise I will not be getting in the future. Just hope the drone doesn't learn to like lamb shanks or chops or drink my coffee.

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Focus on Ewe-TH: 2016 Events & 2016 Youth Scholarship

Several activities are scheduled for this summer and fall for Katahdin Youth.

HAVE YOU DONATED TO KATAHDIN YOUTH PROGRAMS?

There is still time to donate and put your Farm name on the back cover of the Fall 2016 Katahdin Hairald that shows you support youth. If donations are received by June 30th, there is time to impact the number given and amount of funding provided for 2016 Katahdin Youth Scholarships.

Also, if you know of a youth who is going to college and has worked with Katahdins for at least a year, encourage them to apply for a scholarship. Deadline is June 30th, 2016 and applications are now available (see below).

APPLY FOR A MIDWEST KATAHDIN HAIR SHEEP YOUTH GRANT

Youth grants are for \$250 and are to be used to buy a commercial or registered Katahdin. Youth are evaluated based on a short application and a letter of reference that are due May 31, 2016. Youth must be 18 or younger on December 31, 2015. For more information on the youth grant application, please call Kim Harrison at 573-590-0643 (cell) and leave a message. Or, email Kim at info@harrisonvalleyfarms.com for an application or with questions.

APPLY FOR A KATAHDIN YOUTH SCHOLARSHIP

Criteria include:

1. Eligible applicants are college students or high school seniors who are (or will be) attending a college or university of their choice.
2. Applicant needs to be a youth member of KHSI (membership is free) or their immediate family is a current member of KHSI.
3. Applicant needs to be under 21 as of January 1, 2016 or under age 26 if applying for support for graduate school, and must have been involved with the Katahdin sheep industry for at least one year.

To get an application, go to www.katahdins.org click on Membership at the top, then Forms and Documents OR send an email to info@katahdins.org OR call 479-444-8441 to request a postal mailed form. Deadline is postmarked by June 30th, 2016. Scholarships will be announced at the KHSI annual meeting at the 2016 KHSI Expo on August 5, 2016 in Cookeville, Tennessee.

JUNE 4, 2016, MIDWEST JUNIOR PREVIEW SHOW

Sedalia, MO. Missouri State Fairgrounds. Contact information:

midwestshow@hotmail.com or Kate Lambert, 1105 N Main Street, Brookfield, MO 64628, 660-541-0468. Go to <http://www.midwestjuniorpreviewshow.com/> to sign up for an online newsletter, find more information or to donate to the Midwest Junior Preview Show premium fund.

JUNE 19-20, 2016, LEROY BOYD MEMORIAL JUNIOR SHOW

Missouri State Fairgrounds, Sedalia, MO. Katahdin only show. Contact Henry & Becky Shultz (573-682-7127, 573-239-7553 or beckyshultz@msn.com) or <http://www.midwestsale.com> for more information.

On Sunday evening, June 19, the Katahdin youth will get together for a pizza party. There is also interest in talking about forming a Katahdin youth group for activities

JUNE 30, 2016 KATAHDIN YOUTH SCHOLARSHIPS DUE

Applications available at the KHSI website or by contacting KHSI Operations, 479-444-8441 or info@katahdins.org.

JULY 15-17 NORTHEAST YOUTH SHEEP SHOW

West Springfield, MA. nesheep.org/#!north-east-youth-sheep-show/c1i44

AUGUST 5, 2016 KHSI EXPO

Youth meeting to discuss formation of Katahdin youth group or forum for youth activities

SEPTEMBER 27, 2016

BIG E KATAHDIN YOUTH SHOW

1 PM, Springfield, MA.

<http://www.thebig.com/general-info/> Watch the website for entry information.

NOVEMBER 1, 2016

KHSI PHOTO CONTEST DEADLINE

There is a category that only youth members can compete in. 1st prize is \$50, 2nd is \$25 and 3rd is \$10. Your prize money can go toward t-shirts, sheep registrations and transfers. (see article on pg 30).

NOVEMBER 13, 2016

KENNEDY FAMILY NATIONAL KATAHDIN JUNIOR SHOW

Louisville, KY. NAILE. <http://www.livestockexpo.org/> Final date will be set in May.

2016 Katahdin Youth Scholarship Application Information

At least two Katahdin Youth Scholarships will be awarded this summer. If more funds are donated, KHSI may be able to give more. Applications are due on June 30, 2016.

KHSI is continuing its scholarship program in 2016 for youth entering college or already in college or in graduate school. Two \$500 scholarships will be awarded to youth for use at any US college or university.

Go to the KHSI Website: www.katahdins.org download an application.

Completed applications and reference letters must be received by June 30, 2016 to be considered for this year's

competition. Those without internet access can call KHSI Operations at 479-444-8441 to request application materials to be postal mailed.

Eligibility: the applicant must be a youth member of KHSI, or their immediate family must have a current KHSI membership. Applicant must be under 21 as of January 1, 2016 or under age 26 if applying for graduate school, and must have been involved with Katahdin sheep for at least 1 year.

For questions about the scholarship, or to request application materials, please call KHSI at 479-444-8441, visit the KHSI website www.katahdins.org or email info@katahdins.org.

EDUCATIONAL EVENTS CALENDAR

Contact the KHSI Operations Office to ask for your event or sale to be posted. 479-444-8441 or info@katahdins.org

July 22 - 23, 2016. Center of the Nation NSIP Sale Education Program. Presentations on EID tags and NSIP updates at 3 PM on Friday and 10 AM on Saturday. info@nsip.org or 515-708-8850.

****August 4-5, 2016.** 12th Annual Katahdin Hair Sheep International Expo. Annual KHSI Educational Workshops & Tour August 4-5 at Hyder Burks Agricultural Pavilion, Tennessee Tech University, Cookeville, TN info@katahdins.org, 479-444-8441 or www.katahdins.org

September 24, 2016. Virginia Tech Southwest AREC Pasture Ram Test Sale & Field Day. Glade Springs, VA. Presentations prior to the sale. Rams evaluated for growth, loin eye depth and parasite resistance on pasture. Contact Lee Wright, lrte@vt.edu, 276-944-2200

****October 15, 2016.** Sheep & Goat Field Day. Booneville, AR. USDA ARS sponsored (see page 32 for more information).

****** - Indicates there is an article with more information in this issue of the Hairald.

Did you forget to donate to KHSI Youth?

Send donations for Youth Scholarships
or Premiums.

Washington State Sheep Producers Sale July 15 & 16, 2016

Katahdins sell at the Annual Washington State Sheep Producers Ram & Ewe Sale this year held at the Grant County Fairgrounds in Moses Lake.

On Friday there will be youth seminars hosted by Grant County Extension. Sheep will be received for the sale.

On Saturday, there will be a Youth Sheep Show followed by Lunch. Sale starts at 1 PM on Saturday.

For more information about the events and bringing Katahdins to the sale, contact Michelle Canfield (360-770-0615, michelle@canfieldfarms.com).

KHSI members in Washington and Oregon are discussing the potential of growing this location to become a regional Katahdin sale.

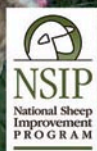
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Diesel

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In this sale we will offer some super ewe and ram lambs sired by Diesel, our 2012 Grand Champion Stud Ram we purchased at the Midwest Stud Ram Sale from Buckeye Acres, and Millionaire, our high selling 2014 Expo Stud Ram we purchased from Dosch Katahdins. Free delivery to the 2016 Midwest Stud Ram Sale and the 2016 KHSI Expo & Sale

*We Built a Dream Flock from
Some of the Best*

Online Sale Oct. 25-26

Willoughby Livestock Sale • www.wlivestock.com

In this sale we will offer some outstanding ewe and ram lambs from some of the best bred sheep in the country. The lambs in this sale will be sired by Red Haute, our 2014 Grand Champion Stud Ram we purchased from Poynter Ranch. Some of the Dams we bred him to include *Solid Money, the 2014 Reserve Champion Ewe we purchased at the Midwest Stud Ram Sale; *Nae-Nae, the 2015 Grand Champion Ewe we purchased at the Midwest Stud Ram Sale; *Payzley, the 2015 Reserve Champion Ewe we purchased at the Midwest Stud Ram Sale; *Elexis, the 2015 high selling Expo Ewe; and *Diamond, the 2015 high selling Ewe we purchased at the Midwest Stud Ram Sale. Free delivery to the 2016 North American International Livestock Exposition (NAILE).

Stop by our pens at the 2016 Midwest Stud Ram Sale. We will be offering some of the best bred Katahdins in the nation.

| June | | | | | | |
|---------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| October | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |

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Midwest Stud Ram Sale Gears Up For Nation's Largest Sheep Sale at Sedalia, Missouri June 20-27th

By Heartland Livestock Services LLC

Always held the last full week of June, this year's sale dates are June 20-27th

The remodeling of the Sheep Barn has been completed, so this year all of the sheep will be in the new pens with new electricity and water hydrants. This long-awaited improvement was made possible by a generous donation from the Missouri Sheep Breeders Association.

The schedule will remain the same with Katahdins showing on Tuesday, June 21st and selling on Thursday, June 23rd. Heartland Livestock Services has made a few changes with regard to the entry process for the Midwest Stud Ram Sale. We have attempted to make the on-line entry system a little more user-friendly and the entry deadline has been moved up to May 1st. We had such a positive response for mailing the catalog at

least two weeks earlier that we have bumped the entry deadline up 5 days so that we can get it in the mail even earlier.

Entries were due by May 1st. Entries after that date will gladly be accepted, but they may not be included in the printed catalog. Late entries will continue to be accepted at the sale. However, if you intend to bring a significant increase in numbers, please notify us so that the penning arrangement can be modified. This new deadline gives both buyers and consignors a greater opportunity to review entries ahead of the Sale. Because of this, any data consignors can provide with entries as footnote information will be very valuable and can highlight the value and importance of performance information.

Again this year the on-line version of the catalog can be accessed in late May at www.midwestsale.com.

Also on this website you can find the Schedule of Events, Advertising Information, and Contact Information

so that you can contact us and write your message. Under Location you will find Lodging Information where you can access the www.visitsedalia.com or the "Linked here" link which will give you addresses of motels in surrounding towns, camping information, bed and breakfasts and rooms in private homes. Motels are tight in Sedalia, so please make your reservations early.

You can watch the live-streaming of all of the shows and the sales as well as the ability to bid on-line by creating an account and logging in to www.dvauction.com

There are several events of special interest to Katahdin breeders besides the Open Katahdin Show and Katahdin Sale (more details on these events are in other articles in this issue of the Hairald on pages 18 and 19). All of these events are at the Missouri State Fairgrounds in Sedalia, Missouri with the exception of the Hair Coat Inspe-

CONTINUED ON PAGE 18

Where family legacy is born... and winning traditions continue...

Don't Miss the Katahdin Excitement!

SEDALIA

MISSOURI STATE FAIRGROUNDS

Tuesday 8:00 am -
KATAHDIN SHOW

Thursday 8:00 am -
KATAHDIN SALE




The One and Only

MIDWEST

STUD RAM SALE

North America's Largest & Greatest Sheep Sale!

JUNE 20•25

Miss the May 1st Entry Deadline?

No Problem! ... We'll accept entries up through the day of the show, but they will not be included in the printed catalog.

Again this year...
All Shows & Sales Live Streamed:
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Heartland
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Champion Yearling Ram consigned by Dosch's TMD Katahdins of SD and sold to Doug Brewer of MD.

Champion Yearling Ewe consigned by Julian and Moore of OH and sold to Rack of Lamb Corral of KS.

Online Searchable Catalog and Full Print Catalog PDF available late May.

Find Complete Schedule for All Events & Times Online:

www.midwestsale.com

Curt Overcash, Managing Partner • (815) 210-7000 • curt@midwestsale.com
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Midwest Stud Ram Sale

2016 Hair Coat Inspection Training in Missouri During Midwest Stud Ram Sale, June 22

Co-sponsors KHSI and Midwest Katahdin Hair Sheep Association thank KHSI member Adam Kilmer of Versailles Missouri for agreeing to host a hair coat inspection training.

The training will start at 1 PM on June 22 at the Kilmer farm. Folks wishing to convoy to Adam's farm are meeting at the Katahdin pens at the Missouri State Fairgrounds in Sedalia. The plan is to leave the fairgrounds at 12:00 Noon, so arrive a little early. Wear shoes and clothes that you don't mind stepping into a foot bath when you arrive at the farm.

Adam's address is 15726 Hwy C, Versailles, MO 65084-4805.

Sheep that are graded up from non-papered Katahdins or sheep of other breeds require a hair coat inspection to document shedding. The purpose of the training is to teach skills needed for inspecting hair coats and test those skills to become a certified inspector. Official inspections that move a sheep from percentage to full registration require that the sheep a) be inspected by a current certified inspector b) be recorded at least 87.5% Katahdin according to the KHSI Registry, c) be at least a year of age at time of inspection and d) be inspected between May 1 and September 30th.

If the reader would like more detail about inspection, recordation, registration and grading up, there are several documents at the website. There is also brief information on the instruction page of the "Work Order,

Registration Application and Registration Instructions" form that all members use to register sheep (you probably have one of these in your file or stack of KHSI papers). Grading up a ram from percentage to fully registered requires that his dam be inspected with an A coat.

Why does KHSI have hair coat inspection trainings? The main reason is that KHSI has an open flock book: offspring from 0 percent Katahdins can grade up to fully registered sheep if the correct process is followed. Katahdins being graded up from wool breeds don't always shed well enough at 87.5%. In the early years, KHSI developed an inspection process to grade shedding.

What are hair coat inspection trainings? An important goal of the training is to clear up potential confusion about the inspection process and help people to avoid common errors that happen while filling out the registration paperwork. The three components of the training include a) discussion of the paperwork that must be submitted to the KHSI registry on inspected sheep; also discussion of the requirements for inspectors and requirements for Katahdins being inspected, b) demonstration of how to inspect hair coats on sample sheep and c) a brief quiz in which people taking the training are tested on their ability to score hair coats as "A", "B" or "C". An A coat is fully shed, a B coat is almost fully shed and C coat has significant unshed fiber.

Who can take the test? All can take the test. However, only those who have been KHSI members for two years can become certified inspectors with successful completion of the hour and half training. There are two reasons to take the test. First, members who wish to inspect their own Katahdins to grade them up to fully registered need to take a test and become a certified inspector. Second, the training teaches shepherds a framework to evaluate sheep for shedding. Shedding is complex-- just because a Katahdin is out of two shedding parents, does not mean it will shed. Katahdin producers need to be willing to cull or not register sheep that will not shed well. If a lamb receives "poor" shedding genes from both parents, they may require shearing in a few years.

Reminder: If you have not yet taken the training and you need inspection in 2016, please contact KHSI Operations at 479-444-8441 or info@katahdins.org right away to request an inspection.

Contact KHSI Operations (479-444-8441 or info@katahdins.org) for more information. Download the Hair Coat Inspection form and the Registration, Recording and Upgrading FAQs from the Forms page of katahdins.org. The special 2016 Edition of the Katahdin Hairald, "A Guide to Katahdin Hair Sheep" has excellent brief articles on inspection, recordation and grading up.

MIDWEST STUD RAM SALE GEARS UP, CONTINUED FROM PAGE 17

tion Training. These include the Leroy Boyd Memorial Katahdin Youth Show on June 20th at 9 AM, the Hair Coat Inspection Training at 1 PM at Adam Kilmer's Farm (45 minutes from Sedalia), Midwest Katahdin Hair Sheep Association Annual Meeting (4:30 Wed), Katahdin Ice Cream social at the Katahdin Pens (7 PM Wed), and the KHSI & Midwest Kats Breakfast Snacks at the Katahdin Pens just be-

fore the Katahdin Sale (6:30-7:30 AM, Thu). The Midwest Katahdin meeting will take place Wednesday afternoon and the tentative location is the Dr. Taylor Woods Youth Center Complex on the fairgrounds.

The Midwest Stud Ram Sale offers sheep breeders a unique opportunity to view sheep from several different breeders all in the same place at the same time. It is also an opportunity to

meet and socialize with other breeders from all across the Country and to showcase your breed. Heartland Livestock Services, LLC is committed to providing the premier marketplace for North American livestock genetics and we look forward to working with all breeds. We especially look forward to an exciting future with the Katahdin breed.

See you in Sedalia!

KHSI Recommends that sellers send papers and payment for registrations and transfers to the KHSI Registry, as a courtesy to their buyers.

Midwest Katahdin Hair Sheep Association Annual Meeting June 22, 2016 – Sedalia, Missouri

Kim Harrison, Missouri

The Midwest Katahdin Hair Sheep Association invites you to attend our activities and activities that we co-sponsor during the Midwest Stud Ram Sale in Sedalia.

We are co-hosting a KHSI Hair Coat Inspection Training on June 22 at 1 PM at Adam Kilmer's Farm in Versailles, MO. After the training and drive back to Sedalia and the State Fairgrounds

we will have our Annual Meeting. At the Business meeting, we award our two grants to Katahdin Youth raisers to buy sheep. This is our second year of doing this. We will also be talking about ways to increase promotion of Katahdins in the Midwest.

On Thursday morning (June 23) before the Katahdin sale, please stop by the Katahdin pens for coffee, bagels and donuts from 6:30-7:30. See

you there.

Youth grants are for \$250 and are to be used to buy a commercial or registered Katahdin. Youth are evaluated based on a short application and a letter of reference. For more information on the youth grant application, please call Kim Harrison @ 573-590-0643 (cell) and leave a message. Or, email Kim at info@harrisonvalleyfarms.com for an application or with questions.



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**SHEEP FOR SALE
AT THE FARM
EWES AND RAMS**

South Central Hair Sheep Association to be Held in Chapel Hill, TN August 2 & 3, 2016

Kathy Kieffer, Tennessee

The South Central Katahdin Association (SCKA) Annual Meeting and Private Treaty Sale will be held August 2 and 3 at Caney Creek Farms located in Chapel Hill, TN (Marshall County).

Tuesday evening at 6 PM, supper and fellowship will be provided.

At 9 AM Wednesday morning, we will have a presentation by Dr Jennifer Hatcher, D.V.M. followed by a presentation from Brandon and Amy Tavalin of Tavalin Tails about local CSA's. A more complete schedule will be available later at hair-sheep.com and caneycreekfm.com. A lunch will be provided before the SCKA annual meeting.

Sheep MUST have health papers and they must be provided **BEFORE** you unload. So please make enough copies before you come. Sheep can begin unloading on Tuesday morning. If you are coming early, just give us a call.

Local motels include:

- Henry Horton State Park (931) 364-2222 use market code SCKA when making reservations,
- Holiday Inn Express (931) 548-2209 use code SCKA,
- Fairfield Inn & Suites Marriott (931) 548-8444 ext 601 ask for Marriott Sr. Discount,
- Comfort Inn (931) 388-2500,

- Americas Best Value (931) 381-1410.

For more listings and directions go to our website caneycreekfm.com or hair-sheep.com or call Kathy (931) 703-0239 or Dwayne (931) 580-6909.

Directions from I-65: Exit 46 Bear Creek Pike. US 412E TN 99 go East 4 miles turn right onto 431 South.. .8 miles turn left on TN99 go 7 1/2 miles to Hwy. 31A turn left 3 1/2 miles. Turn left on Crutcher Rd. 2 miles to stop sign. Turn right on Smiley Rd. 1/2 mile on left.

Please R.S.V.P. by July 9th and let us know if you are bringing sheep to the private treaty sale.

Bring your lawn chairs!

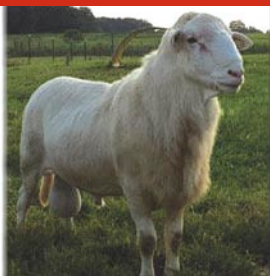


2016 Katahdin Hairald Publication Schedule

| | Fall | Winter |
|--|---------|--------|
| Article Deadline/Display Ad commitment deadline (inc. ad size) | June 29 | Oct 5 |
| Display Ad content due to Xpressions | July 12 | Oct 18 |
| Classified Ads due to Operations | July 12 | Oct 18 |
| Mailing date (Bulk Mail) | Aug 5 | Nov 11 |

Save the Date

August 2nd & 3rd, 2016 SCKA Annual Meeting



SouthCentral Katahdin
Hair Sheep Association

SCKA

Hope to see you there!



2016 Meeting being hosted by Dwayne & Kathy Kieffer of Caney Creek Farms Katahdins
4864 Smiley Rd. • Chapel Hill, TN 37034 • www.caneycreekfarm.com • Facebook/Caney Creek Farms Katahdins

Mark & Mickey's 2016 Christmas Cruise

Mark Dennis, Louisiana

Mickey and I will be sailing on the *Carnival Dream* on December 4, 2016 from New Orleans for an exciting 7-day cruise. There will be NO WORK, AND LOTS OF GOOD FOOD AND FUN! Mickey and I have booked the cruise and invite you and your friends to come sail with other Katahdin breeders to pass an excellent time and "Great Katahdin Fellowship".

This is an exceptional time of the year to cruise the Western Caribbean because Hurricane season is over, and the ship is decorated for Christmas. You will be able to purchase interesting Christmas gifts.

The ports of call are: Ocho Rios, Jamaica, Grand Cayman Island and

Cozumel, Mexico. Mickey and I had the opportunity to sail on the *Carnival Dream* last December and found the experience to be excellent. If you are interested, contact our friend and SCKA member, Leslie Burke @ 904-945-9535 at Sandcastle Destinations to make the necessary arrangements. Don't forget to tell Leslie that you are sailing with Mark and Mickey 2016 Christmas Cruise so you will receive the group rate. The price is starting at \$556.62 per person for 7 days.

If I can answer any questions, give me a call. A passport is required so make your arrangements early for the best price and cabin location.

See Ewe onboard!! Mark Dennis, Louisiana

2016 Dues were Due on January 31

It is Not Too Late – Send in ASAP

KHSI annual membership dues are due in January for the calendar year. In the fall of 2014, the KHSI board approved an "early bird" discount of \$5. If a renewing member pays by January 31st or has their envelope post-marked by January 31st, dues are \$45. After January 31, late dues are \$60.

Benefits of joining include having your farm/ranch listing with contact information on the KHSI membership list that is handed out at events, having your listing at the website and access to free Katahdin sheep ads at the KHSI website. Members also receive 4 issues of the Katahdin Hairald as part of the membership. If you sell two ewe lambs for \$25 more than you would at the sale barn by having your flock listed in our membership rolls, your membership is paid for. Members can also register sheep at member prices. Non-members pay double.

Don't lose sheep sales by not being listed with KHSI and don't miss an issue of the Katahdin Hairald. Renew Today!

After Jan 31, dues increase from \$45 to \$60

Caney Creek Farms Katahdins



Lambs Available in June

pick
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sire "MCD Meat-Concept" COR 14-44, RR, twin
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12th Annual KHSI Expo to be held in Cookeville, TN August 4-6

Shepherd 101 & 201 Presentations Coupled with the National Katahdin Sale

*By Expo Program Committee:
Robert Walker, Lynn Fahrmeier,
Steve Bull & Carl Ginapp)*

Excellent sheep! Several flocks have contacted our office and plan on bringing superior rams and ewes to this event. Consigned Katahdins need to arrive by noon on Thursday August 4th at Hyder Burks Agricultural Pavilion at Tennessee Tech University, Cookeville.

The viewing of the sale sheep and discussions with other breeders are considered by many Expo attendees as one of the many Expo learning experiences.

Excellent & Exciting Education! The speakers are an exciting line up. Here is the latest information. Tennessee State Extension will be a co-host of the educational sessions on Thursday and Friday.

Thursday starts out with a farm tour of Big Spring Farm. Greg Brann's

farm has been featured on RFD TV. This is an opportunity not to be missed to view excellent forage management and multi-species grazing. Even if you don't plan to add cattle to your operation, visiting this farm will help you learn the language and be able to talk to cattle men and women who come to your operation. The tour includes a \$10 lunch. Meet at Hyder Burks Pavilion by 8:15 on Thursday morning August 4 to catch the bus or to convoy to the tour.

The Thursday evening and Friday 101 and 201 sessions promise to be a great learning experience. There will be topics for all.

Dr Ron Lewis of University Nebraska Lincoln is a great teacher who is effective at presenting and teaching the whole audience, even those of us with more limited backgrounds. He has worked on genetics of sheep in Australia, Texas, Virginia and Scot-

land. A wealth of experience.

Practices for parasite management control in small ruminants have been revolutionized in the USA since 2000. Dr Joan Burke (USDA Agricultural Research Service in Booneville, AR) has been a key part of this change as one of the founders of the American Consortium for Small Ruminant Parasite Control. Dr Burke has also received several grants to research parasite resistance in Katahdins. Her efforts have empowered Katahdin breeders to improve parasite resistance in Katahdins as well as documentation of their parasite resistance.

Rusty Burgett, previously director of the Meats Lab at Ohio State University, manager of the sheep flock at Iowa State University and the manager of the University of Wisconsin dairy sheep flock, will be doing a basic sheep nutrition seminar.

CONTINUED ON PAGE 25

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This is by far our nicest lamb crop ever!

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Outstanding Ram Power

POY 44

Bred by Poynter Sheep Farm, POY 44 was Grand Champion ram at the 2011 Midwest Stud Ram Sale. He is one of the most proven colored rams in the nation siring many show winners including the 2012 Grand Champion Ewe at Louisville

SHU 3348, "Today's News"

Bred by Prairie Lane Farm, "Today's News" was Grand Champion ram at the 2013 Midwest Stud Ram Sale. Also Reserve Junior Champion Ram at NAILE in 2012.

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by POY 44 and SHU 3348
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Our Breeding Sires:



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"Cash"



Goldstrike Mountain's
"Jetson"



"Cisco"

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**400+
Breeding Ewes**

Available for Sale

(all starting at \$300)

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Ram Lambs
Adult Rams**

*solid black, black & white,
all colors
Many to Choose From*



**This newborn
Ram Lamb is
also available
for sale.**



**Great Pyrenees
puppies are
Ready to Go.**



*We strive for
color as well as
the white.*

CTE

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www.goldstrikemountainkatahdins.com**

Greg Brann is the Grazing Lands specialist for the Tennessee state office for USDA NRCS (National Resource Conservation Service). Greg presented at the 2013 KHSI Expo in Tennessee on forage management and KHSI had requests to have a repeat performance. We are pleased that he is available and can also host us for our farm tour on Thursday.

Dr An Peischel is the Small Ruminant Extension Specialist for Tennessee State. She has presented to

audiences all over the country from Minnesota to Hawaii and has great information to share about management, marketing, reproduction and selection.

Ultrasound is an excellent tool to determine sheep muscling. It is the only accurate way to evaluate muscling in a live animal. We are fortunate to have a certified sheep scanner at USDA research station in Booneville, Arkansas. Erin Smyth will demonstrate ultrasound and talk about

how to use this tool to improve muscling in sheep. This presentation will demonstrate the use of ultrasound to determine amount of muscling in the rib eye and fat thickness.

There won't be anyone asleep during Susan Schoenian's presentations on mar-

keting and cross-breeding lambs. Susan will also do a talk on Conformation 101. Susan is entertaining, she will challenge basic assumptions and make you think. Susan manages one of the best websites for providing extensive and practical information about management of small ruminants. She hails from University of Maryland, raises Katahdins and is in great demand as a speaker. This will be a very different talk from the one she gave at the 2015 Expo.

With this strong educational program, the KHSI Expo Committee feels that it will be a great learning situation for all who attend.

Oh yes, there will be Katahdin lamb on the menu for the two Friday meals. Registration information will be mailed at the end of June. TOP OF YOUR DO LIST: Make sure that you reserve a hotel room now. See article on pg 27 about hotels. The highway hosting the largest garage sale in the world passes near Cookeville. So make your reservations today and if your plans change, just cancel.

See you there for an Expo not to be missed!

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Hound River Farm had both the high selling ram lamb (\$2600) and the ram lamb with the lowest Fecal Egg Count average (zero) at the 2015 Virginia Tech Ram Test.

Our sheep are pasture-raised and exposed to parasites year-round.
Contact us to reserve your next herd sire. www.houndriverfarm.com
Roxanne & Milledge Newton, Hahira, Georgia. (229)-794-3456



Expo Sale Requirements For 2016 Expo

For - Registered Rams & Ewes, Consignment Deadline is June 15, 2016

(Editor's Note: Final regulations will be published on May 15th, 2016. These preliminary notes will help potential consignors to make sure that their sheep meet the data requirements and get the optional weighing data if consignor chooses to submit weights.)

REQUIREMENTS FOR BOTH COMMERCIAL & REGISTERED SHEEP SALES:

- Consigned sheep must be at Hyder-Burks Agricultural Pavilion, TN Tech University, Cookeville TN by 12 Noon, Thursday Aug 04, 2016.
- Sheep must be genotyped QR or RR at codon 171. Papers from genotyping company must be turned in by the time that consigned sheep are checked in.
- Interstate Health Certificates are required. Certificates must include a statement from the Veterinarian that flock is free of contagious foot rot. Rams must have a B. ovis negative test within 30 days of sale.

- All animals are required to have either Mandatory or Scrapie Flock Certification Program tags.
- Consigned animals must be bred and raised by consignor.
- One ram can be consigned without consigning any ewes. For each additional ram, you must consign at least one registered ewe or one pen of registered ewes or one pen of commercial ewes.

REQUIREMENTS FOR COMMERCIAL KATAHDIN EWE SALE:

- Minimum weight of 70 pounds for Spring Ewe Lambs
- At least three-fourths Katahdin
- Age Classes; Yearling (9/1/14-8/31/15), Fall ewe lambs (9/1/15-12/31/15), Spring Ewe Lambs (Jan 1- May 31)
- Consigned as pens of 3, 4 or 5 ewes (not as individual ewes)
- Shed over 2/3 of body (ewes must not be shorn or clipped; commercial ewes may be tail-docked)
- Consignment Fee of \$20/pen

- Expo Sale Committee has the right to reject commercial ewe sale entries.

REQUIREMENTS FOR REGISTERED KATAHDIN SALE:

- Registered consignments can be individual rams, individual ewes or pens of 3, 4 or 5 ewes.
- Recorded 87.5% or greater ewe lambs with coats expected to shed can be consigned as individual ewes or in ewe pens.
- Registered animals **must not** be docked or clipped and must not have C coats.
- Consigned rams must meet minimums for scrotal circumference (> 28 cm for ram lambs; > 32 cm for rams)
- Accurate recording of date of birth, type of birth (1-2-3-4), and type of rearing (0-1-2-3-4 measured at 30 days of age), must be provided for each animal

CONTINUED ON PAGE 27



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performance based genetics

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COOKEVILLE, TENNESSEE

RESIST-R

- parasite resistant -

EBVs

Wwt +1.9
Pwwt +3.5
Pwec -87.4
Hair Index 107.3

GROW-R

- superior growth, NSIP trait leader -

EBVs

Wwt +3.3
Pwwt +6.6
Pwec 11
Hair Index 105.9

WIDE-R

- well-muscled, strong -

EBVs

Wwt + 2.7
Pwwt +5.8
Pwec -62
Hair Index 106.2

VINCE POPE & NANCY POPE, DVM • ARENA, WI • 608 753 2659 • INFO@DOUBLEWEFARM.COM • DOUBLEWEFARM.COM

- Dam production records are required (number lambs born/reared for each year of production)
- All weights are optional. Birth-weights should be taken within 24 hours of birth. 60-day weight should be taken prior to weaning and done when lamb is 45-90 days of age. 120 day weights need to be taken at 91-150 days of age and at least 30 days after the 60 day weight. If submitting wts, the date at which the 60 and 120 day wt are taken needs to be recorded and submitted.
- Consignment Fee of \$20 per individual ram/ewe or \$20/pen if consigning a pen of ewes. Classes include Rams, Ewes & Ewe pens for the following ages: Yearlings (9/1/14-8/31/15), Fall (9/1/15 - 12/31/15), January, February, March 1 and later

Contact: Jim Morgan, KHSI
Operations at 479-444-8441 or
info@katahdins.org.

2016 KHSI Expo Hotels – Reserve Now! August 4-6, Cookeville TN

*Robert Walker, TN - KHSI Expo
Committee*

Rooms are going fast! No rooms with twin beds left in La Quinta, the headquarters hotel as of April 4.

Make your reservations now. On the same weekend as the Expo is the World's Largest Yard Sale on Highway 127 passing through Tennessee. Hotel rooms will be at a premium and will go fast. Because of this, KHSI needed to reserve smaller blocks at several hotels. Be sure to call each hotel directly for rates: do not reserve through online websites.

The hotel headquarters is the La Quinta. Rate is \$80 + tax. The other hotels with blocks reserved are the

- Best Western, \$80 + tax,
- Red Roof Inn \$65 and \$71, and
- Country Inn & Suites at \$109.

It is very important that you make your reservations as soon as possible

and mention "sheep expo". They will hold the "sheep expo" rooms up until 2 weeks before Expo. Go ahead and reserve your room now--you can always cancel your reservation later if your plans change.

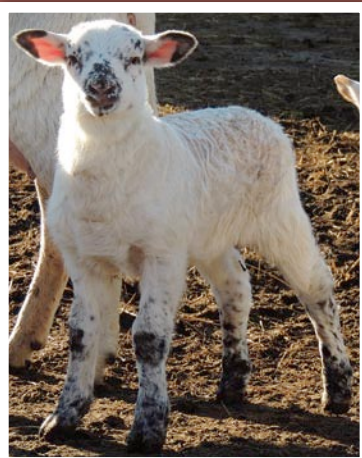
Again, be sure to call each hotel directly for rates not thru online website and mention "sheep expo".

- **La Quinta** - 1131 S Jefferson Ave, Cookeville, TN 38501, (931) 520-3800
- **Best Western** - 900 S Jefferson Ave, Cookeville, TN 38501, (931) 526-7115
- **Red Roof Inn** - 1292 S Walnut Ave, Cookeville, TN 38501, (931) 528-2020
- **Country Inn & Suites** - 1151 S Jefferson Ave, Cookeville, TN 38501 (931) 525-6668

See you at the Expo!

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Sired by Monty, ADS 0129



Sired by Odin, BAG 2379

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that are:**

- Easy Care
- Excellent mothering abilities
- Fast growth
- Good muscling
- Correct conformation

TMD

Congratulations to the 2015 KHSI Photo Contest Winners!

KHSI Operations

The KHSI Photo Contest Committee met and determined the winners of the Photo Contest.

The committee thanks all of our members who submitted photographs. The top three places in each category are listed below.

Winners receive KHSI Dollars that they can use to pay for registering sheep, membership or promotional items including T-shirts and vests.

Start now to capture those great sheep pictures for the 2016 KHSI Photo Contest! (see article on page 30 for 2016 contest regulations).

BEST PROMOTION-EWES

| | | |
|------------------------|---|------------------|
| Meat Makers, Ewe Style | 1 | Karen Kenagy, OR |
| Triplets | 2 | Johanna Kern, MT |
| Snow Bound | 3 | Johanna Kern MT |

BEST PROMOTION-RAMs

| | | |
|---------------------|---|------------------|
| Twin Rams | 1 | Bobby Grider, KY |
| Courting the Ladies | 2 | Karen Kenagy, OR |
| Romeo | 3 | Johanna Kern, MT |

ACTION

| | | |
|------------------|---|-------------------|
| The Guardian | 1 | Karen Kenagy, OR |
| Follow Me Ladies | 2 | Bobby Grider, KY |
| Lambs Running | 3 | Debbie Haluka, GA |

MEAT

| | | |
|------------------------------|-------|------------------|
| Lamb, It's What's for Dinner | 1 | Karen Kenagy, OR |
| Lamb Burger with Onion Rings | 2 Tie | Lynn Rocha, TX |
| Roasted Ribs | 2 Tie | Lynn Rocha, TX |

SCENIC

| | | |
|---|---|------------------|
| Lambs' First Snow | 1 | Karen Kenagy, OR |
| Turning Lamb into Meat the Katahdin Way | 2 | Karen Kenagy, OR |
| Rachel | 3 | Johanna Kern, MT |

KIDS & SHEEP

| | | |
|----------------|---|---------------------|
| Madison Lamb | 1 | Katrice Housker, MN |
| Making Friends | 2 | Karen Kenagy, OR |
| Follow Me | 3 | Julie Sitzler, TN |

OPEN

| | | |
|------------------------|---|---------------------|
| Inquisitive Observer | 1 | Elsie Mannhardt, NY |
| Ewes, Lambs & Chickens | 2 | Debbie Haluka, GA |
| Putting on the Pounds | 3 | Debbie Haluka, GA |

Visit the KHSI website at

www.katahdins.org

- Past issues of the Hairald and more!

EHJ

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The KHSI Expo, Cookeville, TN**

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Katahdins

Ed and Helen Julian Family

3009 State Route 44 • Rootstown, OH 44272 • 330-325-9150 • ejulian781@gmail.com

Fellow Katahdin Breeders,

I'd like to tell you about our breeding program here at Prairie Lane Farms. Our program is based on the production traits of twinning, 60 day and 120 weights with the NSIP program plus show ring success. Our goal is to produce an animal that will work for the commercial producer and be competitive in the show ring. In my opinion, our consignment at this year's Midwest Stud Ram Sale achieves this goal.

Starting with our fall rams lambs, Shultz 3715 is our highest indexing NSIP ram from our entire fall lamb crop. He is a full brother to "Sparkle" our two time National Champion Ewe.



Reserve Champion Ewe and
1st Place January Ewe Lamb
2015 Midwest Stud Ram Sale



1st Place March Ewe Lamb
2015 Midwest Stud Ram Sale

**We will be bringing more
quality animals like these
in 2016.**



Shultz 3729 is a ram I feel will make a great show ram. This ram is super correct on his feet and legs plus has the length of body we all look for in a Katahdin. He comes from one of our best ewe lines.

Our spring ram lamb consignment consists of rams from three different sires. **Shultz 3485** is a "Centralia" son who sired "Sparkle" and the 2015 high selling yearling ewe at the Midwest Stud Ram Sale. "**Rebel**", sire of the 2015 Midwest Stud Ram Sale Reserve Champion Ewe, 2015 Reserve Junior Champion Ewe at the Kennedy Family National Junior Show and 2015 National Champion Ram. "**Vision**" is the 2014 National Reserve Champion Ram and "**Pistol**", 1st February Ram Lamb at the 2015 National Show.

Our ewe consignment is equally strong. We're offering two yearling ewes straight out of our 1st place flock at the National Show. Our four fall ewe lambs have a lot of color and style starting with Shultz 3716, a red ewe that is a twin sister to our lead fall ram. Again, she's a full sister to "Sparkle".

The second fall ewe lamb offered features a ewe with "Centralia" on the top and bottom side of the pedigree. We bred a "Centralia" son back to his grandmother; we really look for this ewe to go places. The other pair of ewe lambs will make a great pair of show lambs plus work in any flock as a foundation set of brood ewes.

Our spring ewe lamb consignment will be sired by the same rams listed above.

We'll also have strong consignments at the Katahdin Expo and South Central Katahdin Association Annual Meeting. Contact us to arrange deliveries to either of these events. Visit our website to see photos of all our consignments.

Thank you for taking time to read about our program.

Henry

Henry Shultz & Family

6219 Audrain Road 125 • Centralia, MO 65240 • 573-682-7127

beckyshultz@msn.com • www.prairielanefarm.net

or contact Sarah 573-819-0806 • sb.gehring@gmail.com



Member
NSIP

2016 KHSI Annual Photo Contest Open!

KHSI Promotion Committee

Attention all Photographers:

The 2016 KHSI Annual Photo Contest is Open! It is our 11th year. All shutterbugs are welcome to enter. Photographers are not required to be KHSI members to enter. Quality photographs are needed to promote Katahdin Sheep in national magazines, promotional activities and in the Katahdin Hairald. Don't miss out on the opportunity to get your photographs recognized and published.

Entries must be received by November 1, 2016 and should be submitted online at:

www.katahdins.org/khsi-photo-contest/.

Entries will be judged on composition, creativity, quality (exposure, focus) and relevance, with the goal of promoting Katahdin sheep. Prizes are awarded in "KHSI dollars" and can be used to pay for Registry services (registering, recording or transferring sheep), annual membership, or promotional items (t-shirts, hats, vests, signs) and shipping.

First Place: \$50 of KHSI services or promotional items.

Second Place: \$25 of KHSI services or promotional items.

Third Place: \$10 of KHSI services or promotional items.

If your photograph submitted in the 2016 KHSI Photo Contest is selected to be used in any of the following:

- 1) an ad in a magazine (not the Hairald),
- 2) KHSI brochure cover,
- 3) KHSI Flock Book or in the
- 4) KHSI Display, you will receive an **additional \$250 cash prize or \$450 of KHSI services or promotional items.**

Hints: If you want your picture to make the cover of the Hairald, turn your camera 90 degrees so that the long axis is vertical. Cell phone photos don't have enough resolution for cover photos and for magazine ads.

Each photographer can enter up to 2 photographs per category:

1. **Best Promotion - Katahdin Ewes** - Photographs that show one or more of the qualities promoted for Katahdin ewes such as: efficient

grazers, superb mothers, low maintenance, easy lambing, adaptable, shedding, etc.

2. **Best Promotion - Katahdin Rams** - "Appropriate" photographs that show a picture of a Katahdin ram (s) or ram lamb(s) that can be used to promote Katahdins.
3. **Action/working** - Photographs of activities such as moving/trailing sheep, lambing, tagging, exhibiting, grazing, feeding, etc. (Note that all pictures featuring youth ages 18 and younger should be entered in the "Kids and Sheep" category.)
4. **Katahdin Meat** - Specifically looking for photos that promote Katahdins as a meat breed. Ideas for photos include: hanging carcass(es) that demonstrate muscle and quality finish, hanging carcass(es) split to show ribeye, photos of cuts to show good meat quality. Pictures of appetizing lamb meat or a lamb dish are also acceptable. Not required, but helpful if photos in this category include age, sex, hanging % and hanging carcass wt of lamb.
5. **Scenic** - Photographs of sheep in the landscape. May include other species of livestock or livestock guardians. Photographs in this category should NOT include people.
6. **Kids and Sheep** - Photographs containing pictures of youth less than 18 years of age and sheep.
7. **Open Category** - Photographs that do not fall into the four above-listed categories.

8. **Just for Youth** - Photographers submitting photos for this category must be 18 yrs of age or younger. Youth may submit photos in the other categories as well. The picture topic can be any of the above categories.

OTHER CONTEST RULES:

- Photos being submitted must have 1) been taken within the last 3 years and, 2) never been previously published.
 - All entries become the property of KHSI to be used or reproduced at the discretion of KHSI. Owners of the photographed sheep may continue to use the photos.
- Youth featured in photos must have the permission of parents prior to publishing
- All entries must be submitted electronically, with a minimum resolution of 300 dpi. **This is a very important rule! Check the settings on your camera. Many great photos can not be published due to poor resolution. Please be SURE the setting is at 300 dpi or higher.**
 - Entries are limited to two photographs per person per category.

To submit your photograph, go to the KHSI website or click on the following link and enter the information in the required fields. www.katahdins.org/khsi-photo-contest/. You can find the contest rules and the **Photo** tab at www.katahdins.org.

Questions or difficulty with submitting? Please call or email KHSI Operations at info@katahdins.org or 479-444-8441.

Doyle Weaver Katahdins

Due to early demand, we will be unable to consign any sheep to either the Midwest Stud Ram Sale or the KHSI Expo.

See you at the shows!

Doyle & Judy Weaver
Nevada, MO • 417-667-5294
doyle_judyweaver@yahoo.com

**HLB
Genetics**

He reminds me of Big-Un that did a great job. HLB "Man-O-Man" has a better set of females to work on, thanks to Big-Un. He is a grandson of the Old Man out of a Hy-Bird ewe.

**HLB
Genetics**

HLB "Man-O-Man"

I have decided that 200 ewes is more than I need. So this summer, if you think you might need some good young ewes,

Call Early!

**We have
Katahdin
rams for sale
year-round**

Look for us at the following events:
June 20-23 Midwest Stud Ram Sale, Sedalia, MO
August 2-3 SCKA Annual Meeting & Field Day, Chapel Hill, TN
August 4-6 KHSI Expo, Cookeville, TN

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Katahdins and Katahdin Breeders in the News

- 1) Ron & Jodi Hansen & Family. Leonard, ND.

From the front page of the *Stockman Grass Farmer* Vol 16:4 (April 2016). Title of story is "North Dakota Family Scales up Grassfed Operation to 1000 Ewes Plus Adds Hogs, Cattle and Chickens". Article covers aspects of their transition to sustainable grass farming from conventional hog farming and how the whole family has their own aspect of their enterprise. Jodi mentioned that she heard in an educational seminar early in her development of a sustainable farm, "When you move livestock to your place from another operation, expect to to lose or cull half of them in the first few years". Her experiences support that.

- 2) Tracy Mumma & David Sturman. St Ignatius, MT.

From the front page of *Stockman*

Grass Farmer Vol 16:1 (January, 2016). Title of story is "Montana Hay Farmer Discovers The Joys of Flerd Grazing." A flerd is when grazing group or mob contains sheep and cattle (flock/herd = flerd). They've transitioned from rotating 1x/week to daily moves.

Editor's Note: Stockman Grass Farmer is one of the major forage publications for producers thinking out of the box. Probably 25-30% of the phone calls to KHSI Operations wanting information on Katahdin sheep are calls from folks seeing our ad in the Stockman Grass Farmer. It is excellent to have Katahdins on the front cover of this international farmer/rancher periodical.

- 3) 4th Annual Taste of Lamb. Washington County Sheep Association (Indiana). They used Katahdin Lamb. For a report of the event see pg 35 in this issue.

USDA Sheep & Goat Field Day, October 15th Booneville AR

Joan Burke and coworkers at the field station will host a Sheep and Goat field day at the USDA ARS Dale Bumpers Small Farms Research Center in Booneville, AR on October 15, 2016. This field day will cover several topics. Learn simple vaginal artificial insemination and how to collect, examine and extend semen taught by Dr. Joan Burke. Learn or take a refresher FAMACHA® course taught by Dr. Jim Miller along with understanding of parasite biology and control strategies. The details of how to best use FAMACHA® have changed since it was first introduced. So attend this to get a refresher. FAMACHA® should be in every sheep producers tool box.

There will also be presentations on out of season breeding, fall lambing, and grazing management, which the field station has been implementing best practices for the last several years. Lunch to be served. Contact Jackie Cherry (479-675-3834 ext 328, Jackie.Cherry@ARS.USDA.GOV) for more information.

JDK Genetics Work!

JDK



2ND PLACE JANUARY RAM LAMB
2015 National Katahdin Show, N.A.I.L.E.

All rams RR



4TH AND 5TH PLACE
FEBRUARY RAM LAMBS
2015 Midwest Stud Ram Sale



3RD PLACE JANUARY EWE LAMB
2015 National Katahdin Show, N.A.I.L.E.

*Watch for our
consignment at:
Midwest Stud Ram Sale
KHSI Expo*



John, Judy & Scott Dyer
834 E. CR 1250N • Chrisney, IN 47611
(h) 812-362-8012 • (c) 812-457-0320
jdkatahdins@Reagan.com

Stud Rams • JDK 207
• DOC P1798 • VJ 9048

Foundation ewes from Kennedy-Dosch-Young



Lamb Empanada Appetizers

Submitted by James Morgan & Teresa Maurer, Arkansas

Shortcuts for faster preparation

1. Buy dough from Pepperidge Farms. Your favorite unsweetened pastry dough works well for Empanadas, but Pepperidge Farm puff pastry works too. There are several internet recipes for dough for Empanadas or Pasty's.
2. Empanada forks and inexpensive plastic Dough Presses work well. Note that a set of 3 different size dough presses will allow you to make, Ravioli, Dumplings, Turnovers, Pierogi and Calzone. We've used a set of dough presses to make appetizer size empanadas and larger empanadas. But once you have the presses, pair Katahdin lamb with the appropriate ingredients to make Calzones, Ravioli, Chinese Dumplings, Eastern European Pierogi's or a Basic Cornish Pasty.
3. You can also just use a glass or round cookie cutter, fold the dough in half and crimp with a fork.
4. Make enough of the meat mixture and freeze it either by itself or in the dough for 2-3 meals.

Ingredients:

Mixture

- | | |
|------------------------------------|-------------------------|
| 1 lb ground lamb | 1 medium chopped onion |
| 1 Tbs minced ginger | 1 ¼ Tbs paprika |
| ½ Tsp cayenne | 1/3 Tsp cinnamon |
| 2/3 Tsp black pepper | 1/3 Tsp salt |
| 1/3 Tsp fresh thyme leaves | 2 cloves garlic smashed |
| 2 Tbs Pomegranate Juice (optional) | ½ Tsp cumin |
| ½ stick of melted butter | |
- (leaving out cayenne and reducing ginger & garlic by 3/4ths will make it milder)

Dough – We buy Pepperidge Farm puff pastry dough and keep it frozen till we can no longer stand being without Empanadas. The mixture above requires 1 box. But you can make your own. Many recipes use lard or butter, which is attractive for those looking for great flavor.

Directions

1. Preheat oven to 350 degrees.
2. Onion, ginger and garlic can be chopped in a food processor especially if making a triple recipe
3. Brown lamb with onion, ginger and garlic. Once browning has started add the rest of the spice ingredients.
4. After lamb mixture has cooked remove from heat.
5. Use the dough presses to cut circles of the dough. Appetizer size is about 2 inch diameter. If making your dough roll it flat to about ¼ inch thick.
6. For the appetizer size, put 1-2 Tbs of mixture in a 2 inch circle of dough. Use the dough press to crimp the circle of dough (you will figure out right amount of meat mixture after you crimp the first one).
7. Brush with melted butter. Place on cookie sheet (you can line sheet with parchment paper for easy cleanup).

Bake

Bake in oven at 350 degrees and start checking for doneness at 20 minutes – bake until golden brown. Serve hot!

***If you have a recipe that you and your family like, send it to
KHSI Operations at info@katahdins.org or PO Box 778, Fayetteville, AR 72702.
We look forward to your recipes. If your recipe is based on (or copied from) a published recipe,
please provide the proper credit.***

CONTINUED ON PAGE 36

Our Stud Rams in their working clothes

All sheep look great in a show picture.



DOC P297

DOC P297, "First Ever", Champion Ram at Louisville 2012, a May 25th yearling whose twin sister was second to champion ewe in class.



DOC P186

DOC P186, "Second Coming" second place as fall and yearling NAILE, maternal half-brother to "First Ever". Have full brother that is coming yearling that we will sell this year.



DOC 664

DOC 664, son of ADS 0105, dam is DOC P45, twin sister to DOC P46, sire of "First Ever".



DOC P617

DOC P617 a double bred son of the Brown ram. Lambs are performing well.



SCD 3333

SCD 333 Extreme Stud Ram, second place yearling ram, NAILE. Purchased as a ram lamb from Jane Smith.



ADS 0105

Our choice of the ram lambs at the 2011 Expo held in Pipestone.



SHU 3616

Shultz ram was the top selling ram lamb at the Expo. A number of ewes have been bred to him.



DOC P2712

DOC P2712 Naile Reserve Senior Champion Ram - Fall RL. We are going to breed some ewes for fall lambing to this ram and then make a decision going forward. He is now in show clothes.



SHU 3581

SHU 3581 is the other Shultz ram purchased at the Midwest sale as a lamb. His lambs are doing very well.



April Ram Lamb, 4th place March lamb NAILE, SHU 3581 son purchased by Dyer Family Katahdins

Thanks to All our Buyers

Consigning the Very Best Sheep we will sell this year to the Midwest Stud Ram sale

2016 Ewe Lambs available

Good selection of rams available at the farm

Pipestone Katahdins

G.F. & Deb Kennedy, and Gary Gorter
Pipestone, MN • 507-215-0487
gkennedy@pipevet.com

Fourth Annual Taste of Lamb

*Forwarded by Dave Embree, KHSI
Member and part of Washington
County Sheep Association*

More than ninety people enjoyed delicious Katahdin lamb prepared by seven great cooks at the fourth annual Taste of Lamb sponsored by the Washington County Sheep Association. The event began as an effort to introduce people to the taste of lamb, make them aware of how to prepare lamb, and increase the opportunity to sell more lamb locally. The Washington County Sheep Association has experienced great success with new attendees each year.

Local lamb was offered for sale at the "Taste" as well as copies of our "Cooking With Lamb" cookbook

which can be purchased for \$10 plus \$5.00 for shipping and handling by contacting the Washington County Extension Office at 812-883-4601 or by contacting the Washington County Sheep Association, 806 Martinsburg Rd. Suite 104, Salem, IN 47167-5907.

Each of the cooks chose a recipe and prepared it for presentation to the

participants. After tasting each of the different lamb dishes, the participants voted for their favorite dish. Prizes of \$50, \$30, and \$20 were presented to the preparers for the first, second, and third place dishes. The first prize winner this year was Dixie Carter.

This year's cooks are shown in the attached picture.



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Katahdin Recipe Forum

Edited by Maria Dosch, Jim Morgan & Teresa Maurer

Part 2 of 2



Lemon Soup with Lamb Meatballs

Submitted by Michelle Canfield, Washington

Ingredients:

Meatballs:

- 1 large egg, beaten
- 1/2 cup panko (Japanese style breadcrumbs)
- 1/4 cup milk
- 1 garlic clove, minced
- Finely shredded zest of 1/2 lemon
- 1 tbsp chopped fresh mint leaves
- 1tbsp chopped fresh flat-leaf parsley
- 1/2 tsp salt
- 1/4 tsp ground pepper
- 1/2 lb ground lamb

Soup

- 7 cup chicken broth (reduced sodium)
- Wide ribbons of zest from 1/2 lemon (use veggie peeler)
- 1/2 cup arborio rice
- 1/4 cup vegetable oil
- 3 large eggs
- Fresh juice of 1 large lemon
- Fresh chopped mint & parsley

Instructions:

1. Make meatballs: in a large bowl, combine egg, panko, milk, garlic, lemon zest, mint, parsley, salt & pepper and let sit a few minutes for crumbs to soften. Add lamb, breaking up with your fingers, and mix well with your hands.
2. With wet hands, form meat mixture into 3/4 in. balls (use about 3/4 T. for each) and set on a rimmed baking sheet. Chill until a little firmer, about 15 min.
3. Meanwhile, make soup. In a large, covered pot, bring broth and zest to a simmer. Add rice and simmer over low heat, partially covered, until rice is al dente, about 20 min.
4. While soup simmers, heat oil in a large, heavy frying pan, over medium-high heat. Cook meatballs in 2 batches, turning once, to brown on 2 sides, about 6 min total. Shake pan, rolling meatballs around to brown a little further. With a slotted spoon, transfer meatballs to paper towels.
5. With a slotted spoon, remove zest from soup and discard. Add meatballs and bring to a simmer over high heat. Turn off heat.
6. In a medium bowl, whisk eggs to blend and add lemon juice. Whisk in a ladle of hot soup. One at a time, whisk in about 5 more ladles of soup, then return mixture to pot. Rewarm over low heat if needed (being careful not to get it too hot, or the eggs will "curdle").

Serve immediately with more mint and parsley

Mountain View Farm Katahdins



MVF "Alvin", RR

**We have a nice group
of Spring Lambs.**

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today!**

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Minerals and Vitamins for Sheep

Mark A. McCann, PhD,
Extension Animal Scientist,
Virginia Tech

Of sheep nutrition topics, mineral and vitamin nutrition are rarely considered the most interesting. A couple factors probably contribute to the issue. One is that we are primarily concerned when there is too much or too little of a particular element. Most nutritional symptoms are related to toxicity or deficiency levels. In between the two extremes there is little visually we can detect that would indicate mineral status. Another contributing factor to diagnosing issues related to minerals is there are several key interactions between minerals which can impact absorption or utilization.

In most production situations, forage in the form of hay or pasture, supplies the majority of minerals needed. Proper fertilization, harvest maturity and incorporating legumes into grasses all positively impact the mineral content of forages. Since forage provides the bulk of the minerals needed, providing a quality mineral

supplement can make up the difference between forages and animal requirements.

Table 1 on page 38 shows the various minerals of concern, levels found in good forage, and the requirements for these nutrients by various classes of sheep. The requirements are based upon the Nutrient Requirements of Sheep, Sixth Edition (1985), and the forage values are based upon pasture and hay samples taken in southwest, central and the Shenandoah Valley areas of Virginia over the last several years.

Macro-minerals are required in larger amounts, with that requirement expressed as a % of the diet or as grams per head per day. In Table 1, above, they are shown on the first 6 rows of the table. Some of these are already in sufficient quantity in forages, so supplementation is not needed. Others are never in adequate amounts, so they must always be in a supplement. Finally, there are those that are marginal in forage and supplementation is sometimes needed.

- Adequate Potassium
- Deficient Sodium
(when combined with Chlorine, makes salt)
- Marginal Calcium, Magnesium, Phosphorous, Sulfur

(Editor's Note: Know your own flock and land. Dr McCann is writing about sheep diets for forage production systems in Virginia. Feedlots with grain and grain by-products are typically high in Phosphorus; see section on "Lambs fed a high grain diet")

Calcium is often in adequate amounts in forages, and legumes have higher levels than do grasses. It is a relatively inexpensive mineral to add to feeds or mineral supplements. Grains and grain crop silages have high levels of phosphorous and very low levels of calcium. Many grain byproducts such as distiller's grains, corn gluten feed and wheat midds have higher phosphorus content than the grain. In many situations forage phosphorus is low due to soils are

CONTINUED ON PAGE 38

BAG

BUCKEYE ACRES GENETICS

BAG



BAG 1235 "Tank"

We strive for Katahdins that have the Genetic Capability to produce more pounds red meat for producers in either a grass or grain operation.



BAG 2463 "Meat Maker"

- We purchased BUL 15203, son of "Tank", at the 2016 Expo Sale.
- Both BUL 15203 and "Meat Maker" sired meaty, easy keeping lambs.

website - www.buckeyeacres.com

- We will be offering animals for sale on our website in 2016. We will post photos throughout the year, beginning in May.

Ron and Carla Young

12282 Harrison-Willshire Rd • Van Wert, OH 45891

(h) 419-495-2993 • Ron's cell: 419-203-6389 • roncyoung@gmail.com • www.buckeyeacres.com

Farm visits and sales are always welcome.

Table 1. Minerals in Forage and Required by Sheep

| | | Class of Sheep and Their Requirements (in diet Dry Matter) | | |
|----------------|--|---|------------------|------------|
| | | Mature Ewes | | Young Lamb |
| Nutrient | Good Forage (in parts of Virginia) | Early Pregnancy | Nursing Twins | Fast Gain |
| Calcium, % | .62 | .25 | .4 | .55 |
| Phosphorous, % | .32 | .2 | .3 | .25 |
| Potassium, % | 2.3 | .5 | .8 | .6 |
| Magnesium, % | .25 | .12 | .18 | .12 |
| Sulfur, % | .25 | .15 | .25 | .15 |
| Sodium, % | .02 | .10 | .15 | .10 |
| Iron, PPM | 354 | 40 | 40 | 40 |
| Copper, PPM | 9 | 10 | 10 | 10 |
| Manganese, PPM | 70 | 40 | 40 | 40 |
| Zinc, PPM | 31 | 30 | 30 | 30 |
| Selenium, PPM | .15 | .3 | .3 | .3 |

low in phosphorous fertility levels. Because phosphorous is important to reproduction and growth, it is often included in minerals for the ewe flock year around. It is the most expensive macro-mineral to add to a mineral supplement. Magnesium is often low in lush forage growing in early spring or when spring-like conditions occur. A deficiency of Magnesium causes grass tetany, a problem in cows that rarely occurs with ewes.

Micro-minerals or trace minerals are needed in very small quantities. The requirement by animals for these minerals is expressed in milligrams per head per day or in parts per million. Just as with the macro-minerals, some are adequate, others are deficient, and several are marginal.

- Adequate Manganese, Iron, Copper
- Deficient Selenium
- Marginal Zinc

(Editor's Note: Dr McCann wrote this article for Virginia sheep producers. As Dr McCann mentions below, some of these vary. It is very important to know the levels of micro-minerals in your forage and your soils. Many regions of the country are deficient in Selenium, but a few regions are not. Most regions have adequate Copper, but a few are marginal).,

Zinc, Copper, and Selenium are all important in many physiological functions, including the immune response and disease-fighting ability. In many

regions of the country, soils are often deficient in Selenium, making forage grown on those soils also deficient. Consequently, it is strongly recommended to include Selenium in mineral mixtures for sheep of all ages.

Because Se is not stored in the body for very long, frequent intake or dosing of Se is critical. A good sheep mineral needs to be available at all times that contains at least 50 or 60 PPM of Se. Assume Se is not included in a mineral product. If it is included, the amount must be stated on the label of the product. It often is stated as a percent. To convert % to PPM, move the decimal 4 places to the right. Thus, a product with 60 PPM would be stated to include 0.006% Se.

Copper (Cu) can be toxic to sheep. Although there is an important function of Cu in the body, and thus it is a required mineral, excess amounts are concentrated in the liver rather than being excreted. Over time, this excess

of Cu can destroy liver tissue, resulting in death of the animal. Often soils, and thus the forages grown on them, contain Cu levels that are close to the animals' requirements.

****Note:** These levels are too low for cattle and goats, thus properly formulated minerals for these species always have Cu added to them. Mineral mixtures formulated for cattle and goats can be toxic to sheep if used for a long time.

VITAMINS

Sheep, with their ruminant digestive system, can make vitamins from the raw materials consumed in their diet. They do this very well with all of the B-Vitamins; thus these are not any concern with sheep. Vitamins A and E are made from compounds found in green forage. Vitamin A can be stored in the liver for 2 or 3 months after sheep have

been eating green forage for several months. Consequently, when eating fresh pasture or hay no supplemental vitamins are needed. However, when sheep are eating forage that is old, weathered, mature, or otherwise low in the Vitamin A precursor (carotene), then this Vitamin should be added to the mineral mixture. Other feeds that will result in inadequate Vitamin A levels are corn silage, cornstalks, and straw.

Vitamin D is made from exposure to sunshine. For sheep housed indoors for more than 2 to 4 weeks, such as lambs being finished in confinement, Vitamin D should be included in the diet.

Most commercial minerals for sheep designed for free-choice feeding will contain added Vitamins A, D, and E. When making a total mixed

CONTINUED ON PAGE 39

Table 2. Vitamins in Forage and Required by Sheep

| | | Class of Sheep | | |
|-----------------|-------------|-----------------|---------------|------------|
| | | Mature Ewe | | Young Lamb |
| Nutrient | Good Forage | Early Pregnancy | Nursing Twins | Fast Gain |
| Vit A, IU/lb DM | 50,000 | 1000 | 1200 | 500 |
| Vit D, IU/lb DM | 500 | 100 | 100 | 100 |
| Vit E, IU/lb DM | 10 | 7 | 7 | 7 |

ration, vitamin premixes can be added inexpensively to the formulation if a free-choice mineral is not going to be fed.

INTAKE OF MINERAL

Sheep do not eat the same amount of mineral throughout the year. They have a craving for salt, and consume a complete mineral to get salt. Some ingredients, such as dicalcium phosphate and especially magnesium oxide, are not very palatable; thus intake may be lower when these ingredients are included. Often grain products or artificial flavor enhancers are added to mineral mixes to encourage higher intake. Intake is higher when consuming lush fresh forage, such as in the early spring. During the dry summer months intake is lower, this is also the case when sheep are eating hay. If a water source is nearby intake is higher than when water is a great distance away. In addition to nearby water, intake is higher if mineral feeders are located in shady areas or along paths frequently traveled by sheep.

COMPOSITION OF MINERALS (FEED TAG INFORMATION)

By law the tag on a mineral product must contain certain information. It must contain guarantees of various minerals included in the product. The minimum information to be stated is:

- Minimum and Maximum Calcium
- Minimum Phosphorous
- Minimum and Maximum Salt
- Minimum and Maximum Copper (if added, or if it exceeds 20 PPM)
- Minimum Selenium
- Minimum Vitamin A

Information about other minerals and vitamins may be displayed on the label. If a product contains a feed additive (antibiotic, ionophore or coccidiostat), it will say "Medicated" on the label, and the FDA-approved purpose and feeding directions for that additive will be stated. FDA-approved coccidia control products include Lasalocid (brand name Bovatec®) which is to be fed at between 15 and 70 mg per head per day in a complete feed. Monensin (brand name Rumensin®) is not approved for sheep, but is approved for goats in a complete feed at the rate of 20g/ton. Decoquinat (brand name Deccox®)

is approved for both sheep and goats at the rate of 22.7 mg/100 pounds of body weight.

FORM OF MINERAL SUPPLEMENT

Minerals and salt products are available in loose, granular form and in block form. Because blocks are hard enough to shed rain water, it is sometimes difficult for sheep to get enough mineral from licking them. In addition, sheep have broken their teeth on blocks. Finally, few if any complete minerals are in block form. Loose minerals must be put in a covered feeder of some type to keep rain out so they don't cake and become hard. Loose mineral mixes are the recommended form of mineral for sheep.

TYPES OF MINERAL SUPPLEMENTS

Sheep producers with forage-based feeding programs normally provide minerals in a self-feeder to their animals. They normally do not mix minerals with other feeds that are fed each day, as is the case with pigs, poultry, dairy, and beef feedlots. There are several types of free-choice mineral mixtures available to sheep. These are:

White Salt - The only minerals this contains are Sodium and Chlorine. This is not an adequate mineral supplement. Often contains Iodine, and is therefore called Iodized Salt.

Trace Mineral Salt (TMS) - TMS is White Salt with added Trace Minerals. No macro minerals are included. Often colored red from the Iron compounds added. Unless specifically stated, TMS contains no added Selenium, although there are some TMS products that do. TMS with added Selenium is considered to be the minimum acceptable mineral supplement for sheep, and only then for sheep consuming high quality pasture.

Complete Mineral - A mixture containing salt, the macrominerals Calcium and Phosphorous, and trace minerals. It may or may not have added Selenium. Magnesium may be added, but perhaps not enough to prevent grass tetany. Often the ratio of Calcium to Phosphorous is in the product name, such as 2:1 or 4:1. Because Phosphorous is the needed item and Calcium is normally adequate,

a lower ratio is more appropriate for forage-based feeding programs. A higher ratio just dilutes the Phosphorous with Calcium-containing ingredients.

LAMBS FED A HIGH-GRAIN DIET

The rapidly growing lamb fed a high grain diet can experience many nutritionally related problems. One of these is called urinary calculi, a blockage of the urinary tract caused by "stones" that develop. An unsupplemented high grain ration contains an excess of phosphorous and small amounts of Calcium. The requirement (table 1) is for calcium in higher amounts than Phosphorous. This reversal of Ca:P ratio results in a change in the pH of the urine and the development of mineral-based precipitates in the urinary tract.

One solution to this problem is to use ammonium chloride in the ration. This changes the pH of the urine back towards normal, thus preventing the precipitates from forming. However, the Ca:P imbalance still persists. This is best fixed by feeding the lamb a mineral supplement that provides lots of Ca and little or no P. Ground limestone (feed grade) added to a complete ration at the rate of 1% of the mixture is recommended. In this way the diet will contain the recommended Ca:P ratio of at least 2:1, even though the actual amounts of both Ca and P will greatly exceed the animal's requirements for these minerals. Many lamb feeders use added limestone plus ammonium chloride in the same feed.

SUMMARY

Mineral supplementation need not be complicated or expensive. Intake of minerals by sheep needs to be monitored to ensure that amounts adequate to meet the needs are consumed. Excessive intake is costly and does not result in higher production. By focusing on forage production and quality first, then providing minerals that are likely to be deficient, producers can cost effectively meet the mineral needs of their sheep.

Adapted from Minerals and Vitamins for Sheep, Mark Wahlberg (2004) by Dr Mark McCann. Disclaimer: Mention of specific brand names is for information only. No recommendation or endorsement is implied.

KHSI Member's Guide

08/15

The Katahdin Hairald is the official publication of Katahdin Hair Sheep International, which provides education about:

- registering individual Katahdin sheep and recording performance
- maintaining the distinct identity of the Katahdin breed
- approaches to promotion and marketing
- summaries of research and development related to the breed

2015-2016 Board of Directors

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KHSI Operations:

- Jim Morgan and Teresa Maurer; PO Box 778; Fayetteville, AR 72702-0778
Phone: 479-444-8441; info@katahdins.org
- Send the following to KHSI Operations (Arkansas)-Completed membership and renewal forms and \$45 for calendar year dues (renewals due by January 31 each year) Note: new memberships and renewals can be paid online by Paypal at website.
- Contact Operations for the following:
 - Request coat inspections before May 15
 - Address changes or other corrections for print or web
 - Copies of histories, breed standards, etc
 - BLANK work orders and registration applications.
Note: forms and materials are printable from website www.katahdins.org
 - Brochures (20 free per member per year; additional at cost) & promotional items
 - Information on members with sheep for sale, anyone wanting to buy sheep
 - Articles, ads, and comments to be published in the Katahdin Hairald
 - Volunteer for KHSI Committees
 - Annual meeting information
- Office Hours (Central time): Monday, Wednesday, Friday (10 am - 3 pm). Calls at other times including evenings and weekends will be answered personally whenever possible.
- Answering machine and email: available for messages 24 hours per day.

KHSI Registry:

- John Savage, 1039 State Route 168, Darlington, PA 16115
Phone – 724-843-2084; Email – registry@katahdins.org
- Contact the Registry with questions about registration and transfer procedures.
- Send the following to the Registry:
 - Completed forms for registering, recording, transferring and naming Katahdins
- Office Hours (Eastern time): Monday to Friday 8 am- 4pm.

KHSI Committees: (Call 479-444-8441 to volunteer; Committee Chairs listed with committee)

Promotion: Roxanne Newton - 229-794-3456

Youth: Henry Shultz – 573-682-7127

Expo Sale: Lee Wright – 276-698-6079

NSIP: Lynn Fahrmeier – 816-517-5049

Publishing/Hairald: Roxanne Newton – 229-794-3456

Registry Liaison: Michelle Canfield – 360-770-0615

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Classified Ads

Classified sale ads for Katahdin or Katahdin-cross sheep are free to all KHSI members in the Katahdin Hairald and at the KHSI website. For the Hairald, please limit length to 40 words. Sheep Wanted Ads can be placed for free for non-KHSI members. Classified Ad Content due July 12, 2016 to KHSI Operations Office for the Fall 2016 Hairald. Contact KHSI Operations, 479-444-8441 or info@katahdins.org.

SHEEP WANTED

KENTUCKY

Western KY. Commercial Ewes Jan 1 2017. Looking for 100 ewes/ewe lambs. Emphasis on parasite resistance, pasture hardiness and prolificacy, preferably from a pasture based operation. Also prefer to buy animals bred for spring 2017 lambing but are open to ewes not bred. Willing to travel some distance for the right stock. Dan Hardin, D&T Hardin Farms, Brandenburg, KY. 270-925-2857 or dpha222@g.uky.edu

Central KY. Registered Ewes or Ewe Lambs. I'm looking for registered Katahdin ewes (2 years or younger). Bred ewes are preferred, and I will pay extra for that. If necessary, can take them as young lambs, but prefer breeding age. I would want to know codon and scrapie status before buying. TJ Thomson, Sunrise Farms. KY. 720-386-1561

SHEEP FOR SALE

ALABAMA

Southern AL. Registered Fall Born Rams. Ricochet Farms is offering four born in August/Sept. 2015 asking \$350-\$650 each. All have been genotyped. These are Grandsons of GF9398. Weights 110-125 pounds on March 15th and gaining at this time. Pictures at www.ricochetfarms.com. Rhonda Kelmer, Ricochet Farms. 251-229-3838, ricochetkatahdins@yahoo.com

SHEEP FOR SALE

CALIFORNIA

Northern CA. Registered & Commercial RR Ram Lambs. RR ram lambs available 5/1-6/1. Grass fed, pasture raised, hardy & completely trouble free. Nice structure. Mostly white, some with color splashes. Registered Katahdins \$400, commercial cross \$300. Diane Sylvestre, Locavore Ranch, Hopland, CA, 415-271-1642, locavorellc@gmail.com

INDIANA

South IN. Registered & Commercial Spring Lambs. Spring lambs ready with more arriving daily. \$175 per head; buy several for a package deal. Can provide starter flock with unrelated ram. Daniel Leslie, Leslie Farms. Tennyson, IN. 812-431-4696, lesliefarms1@yahoo.com

MISSOURI

South Central MO. Registered Ram & Ewe Lambs. Quality ewe & ram lambs available late May from SFCP Select flock. Select for superior growth, strong maternal instincts with emphasis on parasite resistance. \$250 each. Raising Katahdins since 2003. Rodney Phipps, Bent Nail Farm, Belle, MO. 2001barnkat@gmail.com, 573-646-3309

SHEEP FOR SALE

NEBRASKA

SE NE. Registered RR Ram & Ewe Lambs. 32 lambs born mid-March 2016, available early/mid June. Forage based flock. Selecting with emphasis on superior maternal traits, A coats, Twin/Triple births. SFCP. Lori French, Nemaha Hill Farm, Ceresco, NE. 402 217 6217 or lori.french@nemahahill.com, www.nemahahill.com

NEW JERSEY

NW NJ. Registered Lambs. 20 registered March-born lambs. Flock selected for parasite resistance, foot quality, maternal traits. QR sire selected for lamb growth on pasture. He has never required de-worming nor foot trimming at age 6. Jane Farrell, Black Brook Farm, Layton, NJ. 973-670-6077 or valleybrookvet@gmail.com

NORTH CAROLINA

Western NC. Registered/Commercial Ewes & Lambs. Registered ewes, 2 years old, producers of twins. \$275. Lambs born January 2016 - 4 ewes & 4 rams. Registered \$275, commercial \$200. Visit Walelu Farm on Facebook. Becky Ashton, Walelu Farm, Burnsville, NC. Bekashton@gmail.com or 407-808-2744.

2016 KHSI Expo August 4-6th, Cookeville, TN



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OKLAHOMA

NE OK. Registered & Commercial Ewe & Ram Lambs. Born in February. Ready May 1st. Sire was bred by Hound River Farm, GA. \$150. Kody or Carley Moore. KC Moore Katahdins, Rose, OK. Call/text 918-864-0798. carley.chaney@yahoo.com

SHEEP FOR SALE

NEOK. Registered Ewe & Ram Lambs. Born Feb. Ready May 1st. Blood line is DA 1164 (Destiny Acres Ram) & The Old Man /Goliath with RMK (Round Mountain Katahdins) ewes. Most are white. \$150. Russell & Jan Chaney, C & C Lamb. Pryor, OK. 918-864-0979 or jan.chaney56@yahoo.com

PENNSYLVANIA

Central PA. Registered RR Proven 2 Yr Old Ram. Sheds out completely, has a good disposition. See www.oldecmillenhomestead.com for pics. Contact with questions. Caroline McMillen, Olde McMillen Homestead. Loysville, PA, 717-789-4851 or cmmcmillen@embarqmail.com.

SHEEP FOR SALE

TENNESSEE

SE TN. Registered Yearling RR/QR Ewes. Fifteen March 2015 born ewes that have not been exposed to a ram. RR/QR Codon 171. Asking \$350 ea. Michael Stumpff, Cedar Creek Farm, Georgetown, TN, 423-505-4274, mstumpff@yahoo.com

Central TN. Commercial/Registered Flock Reduction. Commercial ewes & select registered ewes for sale. All lambed last spring. All were exposed to our registered ram in March. Darrel or Mitzi McBride, Trace Creek Katahdins, McEwen, TN 931-209-2278 or mittensmcbride2014@gmail.com

NW TN. Registered Lambs. Ram lambs ready to go end of June. Sire is COR 15-26 out of "Meat Concept". Sheep are bred for muscle, bone & milking. Complete health & weight records & genotyped at codon 171. Kody Owens, O2 Farms in Gleason, TN. Kodtownen@gmail.com or 731-571-3369

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12th Annual KHSI Expo & Sale

August 4-6, 2016 in Cookeville, Tennessee
at the Hyder Burks Agricultural Pavilion, Tennessee Tech

(see pages 22, 26, 27 and back cover for preliminary schedule, sneak preview of talks, hotel information, sale information)

Join Us



Buy a Sheep



Eat Katahdin Lamb



Talk to Presenters



Laugh & Learn



Youth Enjoying the Good Life

Learn



Bid on a Sheep

Enjoy



Discuss Sheep
(bet you can't guess what this conversation is about)



Listen & Learn

- Sheep – Check in by Noon August 4th
- Expo Education Program – Part 1 – Multispecies grazing tour Aug 4th AM
- Expo Education Program – Part 2 – Thursday Evening & Friday, Aug 4-5
- Meals – Aug 4, 4:30, PM, Aug 5, Noon & 5:30 PM
- Ice Cream Social at sheep barn 7:30 PM Friday, Aug 5th
- 12th Annual National Katahdin & Expo Sale, Saturday Aug 6th, 11:30 AM
- View sale sheep and talk to owners Friday Evening & Saturday AM before sale



KHSI
c/o Jim Morgan & Teresa Maurer
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12th Annual Katahdin Hair Sheep International Expo & Sale

August 4-6, 2016 “Preliminary Program”

Hyder Burks Agricultural Pavilion, Tennessee Tech University, Cookeville, TN

Thursday August 4, 2016

Hyder Burks Agricultural Pavilion – (2390 Gainesboro Grade, Cookeville TN 38501)

Multi-Species Grazing Tour to Big Spring Farm

- 7:30 – 8:15 AM Tour check-in at Hyder Burks
8:15 – 4:00 PM Load bus and vans, leave for Big Spring Farm at 8:30
8:30 – 12:00 Noon Expo Sale Animal Check-in (can arrive with consigned animals Wed)

Evening Program – Hyder Burks Agricultural Pavilion, Cookeville, TN

- 4:00 – 6:30 PM Expo Registration for those not on tour
4:30 – 5:15 PM Sandwiches available at Hyder Burks prior to evening sessions

5:15 – 8:15 PM

Shepherd 101 Part 1

- 5:15 Conformation 101 – Susan Schoenian
6:00 Lambing 101 – Dr Niki Whitley

- 6:45 Parasites 101 – Myth busting – Dr Joan Burke, USDA
7:30 Sheep Health 101 – Dr David Redwine, DVM, Virginia

5:15 – 8:15 PM

NSIP 301 Workshop sponsored by NSIP Office

- 5:15 NSIP Welcome, Lynn Fahrmeier & Carl Ginapp

- 5:30 – 8:15 NSIP Contemporary Group Structure, Flock
Connectedness & Advanced Topics – Rusty Burgett, NSIP
Program Director; Dr Ron Lewis, U of Nebraska - Lincoln

Friday, August 5, 2016

Hyder Burks Agricultural Pavilion – (2390 Gainesboro Grade, Cookeville TN 38501)

- 7:15 AM Registration

8:15 AM – 12:00 Noon

Shepherd 101 Part 2

- 8:15 Welcome – TN Tech & TN Sheep & Goat Producers
8:30 Nutrition 101 – Rusty Burgett, NSIP Program Director
9:15 Genetics 101 – Dr Ron Lewis, U of Nebraska - Lincoln
10:00 Break

- 10:15 Predators and Predator Control – Dr An Peischel,
TN State Extension
10:45 Understanding & Using EBVs 101 – Rusty Burgett, NSIP
Program Director
11:15 Taking DNA Samples from Sheep, A Demonstration –
Dr Ron Lewis, U of Nebraska - Lincoln

12:15 PM Lunch

1:30 – 4:45 PM

Shepherd 201

- 1:30 Ultrasounding Lambs – Erin Smyth, USDA,
Certified Sheep Scanner
2:15 Multi-Species Grazing & Pasture Improvement
– Greg Brann TN NRCS

- 3:00 Marketing: What do meat buyers want & using cross-breeding
with Katahdins, Susan Schoenian, U of MD Extension
3:45 Parasites 201 – The future - Dr Joan Burke, USDA
4:15 Ultrasound Results – Erin Smyth, USDA; Dr Ron Lewis, U of
Nebraska - Lincoln

4:45 PM Break

5:00 PM 2016 KHSI Annual Membership Meeting

6:15 PM Dinner

7:30 PM Ice Cream Social at Sale Barn, Pre-signup for Buyer's Numbers

Saturday August 6, 2015

Hyder Burks Agricultural Pavilion – (2390 Gainesboro Grade, Cookeville TN 38501)

8:30 AM Sale Animal Display and Viewing

11:30 AM 12th Annual KHSI National Katahdin Sale