



VIRGINIA AGRICULTURAL EXPERIMENT STATION
SOUTHWEST VIRGINIA AGRICULTURAL
RESEARCH AND EXTENSION CENTER
VIRGINIA TECH.

2023 SHEEP FIELD DAY & RAM LAMB SALE

Friday, September 22, 2023

Virginia Tech Southwest Agricultural Research and Extension Center
12326 VPI Farm Road
Glade Spring, VA

Sale Day Phones: (276) 698-6079 or (540) 230-2680
Prior to Sale Day Call: (276) 944-2200 or (540) 231-9159

Ram Videos available at

<https://sas.vt.edu/extension/vtsheep/swarec-ram-test.html>

Schedule

12:00 Noon – Registration & Lunch
12:30 PM - Educational Field Day
3:00 PM - Ram Sale

Selling 50 forage-tested rams evaluated for growth and parasite resistance



Field Day Program:

- Selection for Parasite Resistance- Added Benefits!- Dr. Scott Bowdridge, WVU
- Effect of FEC EBV on Animal Health- Kelsey Bentley, WVU
- Sheep Health Update – Chris Fletcher, DVM, VDACS
- Southwest AREC Sheep Research/Facilities Update - Lee Wright, Virginia Tech SWAREC
- 2023 Ram Test - Lee Wright, Virginia Tech SWAREC and Dr. Scott Greiner, Virginia Tech



Virginia Cooperative Extension

Virginia Tech • Virginia State University

www.ext.vt.edu

Breeding Season Management

Scott P. Greiner, Extension Animal Scientist- Sheep, Virginia Tech

A diligent amount of time spent studying performance information, pedigrees and other pertinent information is warranted as ram selection is the most important tool for making genetic progress in the flock. Of equal importance is the care and management of the newly acquired ram. Proper management and nutrition are essential for the ram to perform satisfactorily during the breeding season. With ram lambs, management prior, during, and after the first breeding season is particularly important.

Ram Lamb Management

Young rams should be managed to be in moderate body condition prior to the breeding season (not excessively fat or thin), to provide adequate reserves of energy for use during the breeding season. The rams should continue to receive grain supplementation at a rate of 2% of their bodyweight daily, along with an abundance of high quality forage. Provide adequate clean water, and a high selenium mineral formulated for sheep free-choice. A facility for the newly acquired ram that allows for ample exercise will help create rams that are physically fit for the breeding season. The facility should allow the rams to remain cool during hot days, so potential fertility problem due to heat stress can be avoided. It is advisable not to commingle a newly purchased ram lamb with older, mature rams. Particular care should be taken if rams from different sources need to be commingled, and all commingling should take place prior to the breeding season.

Many factors influence the breeding capacity of rams, including age, breed, nutrition, management, and environment. As a general guideline, ram lambs are capable of breeding 15 to 25 ewes during their first breeding season. Ram lambs should be observed closely to monitor their breeding behavior and libido to ensure they are servicing and settling ewes. The use of a marking harness, rotating colors every 17 days, is an excellent management tool for this purpose. The breeding season should be kept to a maximum of 60 days for young rams. This will prevent over-use, severe weight loss and reduced libido. Severe weight loss may impair future growth and development of the young ram, and reduce his lifetime usefulness. When practical, supplementing ram lambs with grain during the breeding season will reduce excessive weight loss. Rams used together in multiple-sire breeding pastures should be of similar age and size. Ram lambs cannot compete with mature rams in the same breeding pasture. A sound management practice is to rotate rams among different breeding pastures every 17 days. This practice decreases the breeding pressure on a single ram.

Preparing the Ewe Flock for the Breeding Season

Some advance planning and simple management practices will assist in having a successful breeding season. Vaccination of the ewe flock for *Campylobacter* (vibrio) and *Chlamydia* are important for abortion disease control. For ewe lambs and ewes not previously vaccinated, these products typically require an initial injection prior to the breeding season followed by a second vaccination during gestation. In subsequent years, a single booster vaccination is required. Follow product label directions when administering any vaccine. A month prior to the breeding season is also an opportune time to trim and inspect feet on the ewe flock, and perform preventative foot care. This is also a good time to make final culling decisions, and sell poor producing and thin ewes.

Flushing is the practice of increasing energy intake, and therefore body condition, during the 10-14 days prior to breeding. This practice has been shown to be effective in increasing ovulation rates, and thereby increasing lambing percentage by 10-20%. The response to flushing is affected by several factors, including the body condition of the ewe. Ewes that are in poor body condition will respond most favorably to the increase in energy, whereas fat ewes will show little if any response. Flushing can be accomplished by moving ewes to high quality pastures, or through providing .75 to 1.25 lb. corn or barley per head per day from 2 weeks pre-breeding through 4 weeks into the breeding season. Provide a high-selenium, sheep mineral free choice.

Like rams, ewes are also prone to heat stress during early breeding seasons. Prolonged exposure to high temperatures can have an effect on ewe fertility and embryo survival. To help reduce these embryo losses and resulting decrease in lamb crop, minimize handling during the heat of the day and allow the flock access to a cool, shaded area.

Ram Management After the Breeding Season

Young rams require a relatively high plane of nutrition following the breeding season to replenish body condition and meet demands for continued growth. Body condition and projected mature size of the ram will determine his nutrient requirements during the months following the breeding season. Rams should be kept away from ewes in an isolated facility or pasture after the breeding season. In the winter months, provide cover from extreme weather that may cause frostbite to the scrotum resulting in decreased fertility.

All stud rams should receive breeding soundness exams (BSE) to assure fertility on an annual basis. Assess the ram battery in early summer, so that new rams can be acquired in a timely fashion for the next breeding season.

About the Rams and the Data

Nutrition and Management

One hundred thirteen rams born January 15 through March 15, 2023 were delivered to the Southwest Virginia Agricultural Research and Extension Center at Glade Spring, VA on May 30. Rams originated from 33 flocks located in VA, FL, GA, IA, KY, MD, MO, NC, OH, PA, and TN. At delivery, rams were weighed, vaccinated for clostridial diseases and soremouth, and scrotal measurements taken. Additionally, rams were dewormed with three anthelmintics (ivermectin, albendazole, levamisole), and fecal egg count (FEC) samples collected to determine presence of nematode parasites. A 21-day adjustment period was used to acclimate rams. A subsequent FEC was taken 12 days following delivery to confirm acceptable reduction in parasite load. The primary goal of the pre-test period was to ensure all rams had very low parasite loads at the initiation of test.

Following the three week adjustment period, rams were allocated to forage paddocks based on age and weight, and the structured performance test initiated. At the start of the test period all rams received an oral dose of 5,000 3rd stage *H. contortus* larvae standardized for body weight. Body weights, FEC, and FAMACHA scores were taken at the beginning of the test period, at 14 day intervals during the test. During the test, rams had continuous access to fescue paddocks, and receive supplemental concentrate feed at rate of ~3% body weight daily (76% TDN, 18% CP). FEC and FAMACHA were utilized to determine rams requiring deworming treatment. Rams requiring deworming have been eliminated from the sale.

All rams were dewormed at the conclusion of the 70-day test (August 29). All rams selling have passed a breeding soundness examination conducted by veterinarians from the VA-MD College of Veterinary Medicine. The breeding soundness exam includes measurement of scrotal circumference, examination of the reproductive tract, and semen evaluation.

Performance Data

- % Breed: All rams are registered/recorded with their respective breed association. For breeds with open flock books or appendix registries, breed percentage (%) is indicated. PB = purebred, 75% = three-quarter-blood, 50% = half-blood, etc.
- Birth Type: S = single, TW = twin, TR = triplet, QD = quadruplet
- Codon 171: Genotype associated with genetic resistance to scrapie. Presence of at least one *R* is associated with scrapie resistance.
- Final Wt.: Ram weight at the conclusion of the 70-day test on August 29.
- Test ADG: Average daily gain in pounds per day for the entire 70-day test.
- Final WDA: Weight-Per-Day-of-Age at the conclusion of the test. Calculated by dividing final weight by days of age. Indicative of the ram's growth since birth, and includes growth prior to arriving at the station (weaning growth) as well as gain on test.
- ADG and WDA Ratios: Expresses ADG or WDA for an individual ram as a percentage of the average performance for all rams in the group. A ratio of 100 is average, 110 ratio is 10% above average, and 90 is 10% below average.
- Scrotal Cir.: Actual scrotal circumference in cm measured during breeding soundness exam.
- Mean Adj. FEC: Average of four adjusted fecal egg counts taken post-infection.
- Test Group Avg.: Averages for all rams that concluded the test. Includes both sale rams and those not selling.

Sale Order- Sale order will be available sale day. Sale order will be based on a combination of growth (ADG, WDA) and parasite resistance (Mean Adj. FEC).

Terms and Conditions

- Guarantee:** All rams are being sold as guaranteed breeders if properly managed. If a ram fails to perform satisfactorily, notification must be made to the consignor promptly and not later than May 1, 2024. Consignors are not liable for failure to have a lamb crop. This guarantee is between the buyer and seller only, and no other parties assume any liability, legal or otherwise, expressed or implied.
- Terms:** Cash (check). Absentee bids may be left with the contacts listed above.
- Risk:** All animals at purchaser's risk as soon as sold.
- Health:** Proper health certificates for transport will be furnished to the buyer upon request.
- Registration:** Registration papers will be transferred to purchaser at no charge.

2023 Southwest AREC Ram Test Sale
Friday, September 22, 2023 3:00 PM
Virginia Tech Southwest AREC, Glade Spring, VA
Sale Day Phones (276) 698-6079 or (540) 230-2680

| Test ID | Flock ID | Breed | % | Sire | Birth Date | Birth Type | Codon 171 Genotype | Pasture Group | 8/29/23 70-day Wt. | Test ADG | ADG Ratio | 8/29/23 70-day WDA | WDA Ratio | Scrotal Cir. | Mean Adj. FEC |
|---------|----------|-------|---|------|------------|------------|--------------------|---------------|--------------------|----------|-----------|--------------------|-----------|--------------|---------------|
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Beyond Blessed Farm, Chris & Mandy Fletcher; 15424 Blessed Ln.; Abingdon, VA 24210; 276-698-8768

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|--------|-----------|----------|-----|------------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-001 | BBF 23357 | Katahdin | 100 | FLE 21042 | 2/15/23 | 2 | RR | 1 | 116 | 0.35 | 113 | 0.60 | 109 | 30.0 | 274 |
| 23-002 | BBF 23302 | Katahdin | 100 | DRW 522 | 1/29/23 | 3 | RR | 2 | 122 | 0.44 | 143 | 0.58 | 105 | 34.0 | 183 |
| 23-004 | BBF 23321 | Katahdin | 100 | BC K096-22 | 2/4/23 | 2 | RR | 1 | 116 | 0.31 | 103 | 0.57 | 103 | 34.5 | 349 |
| 23-005 | BBF 23345 | Katahdin | 100 | FLE 21042 | 2/11/23 | 2 | RR | 2 | 107 | 0.35 | 116 | 0.54 | 98 | 29.0 | 126 |

Birch Cove Farm, David Coplen; 4702 Birch Cove Dr.; Fulton, MO 65251; 573-642-7746

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|--------|---------|----------|------|-----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-006 | BCN 165 | Katahdin | 100 | USD 19190 | 1/26/23 | 2 | QR | 1 | 134 | 0.26 | 87 | 0.63 | 114 | 32.0 | 258 |
| 23-007 | BCN 172 | Katahdin | 87.5 | USD 21381 | 1/27/23 | 2 | RR | 1 | 129 | 0.41 | 134 | 0.60 | 110 | 35.0 | 474 |
| 23-009 | BCN 183 | Katahdin | 87.5 | USD 21381 | 2/1/23 | 1 | RR | 3 | 103 | 0.37 | 120 | 0.50 | 90 | 32.0 | 99 |

Ewe Lamb Right Farm, LLC, Dan & Jan Turner; 210 Big Pond Rd.; Shippensburg, PA 17257; 717-512-8127

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|--------|-----------|----------|-----|------------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-011 | ELR 23035 | Katahdin | 100 | WRI 19065 | 2/17/23 | 2 | RR | 1 | 115 | 0.30 | 98 | 0.60 | 108 | 30.5 | 387 |
| 23-013 | ELR 23069 | Katahdin | 100 | ELR 21302 | 2/23/23 | 2 | RR | 2 | 115 | 0.45 | 147 | 0.62 | 112 | 33.0 | 555 |
| 23-015 | ELR 23160 | Katahdin | 100 | BC M144-32 | 3/5/23 | 1 | RR | 3 | 100 | 0.33 | 106 | 0.57 | 103 | 29.0 | 147 |

Hound River Farm, Roxanne Newton; 5550 Skipper Bridge Rd.; Hahira, GA 31632; 229-740-0017

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|--------|------------|----------|-----|------------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-016 | NWT 23-021 | Katahdin | 100 | RMK 20-072 | 1/15/23 | 2 | RR | 1 | 134 | 0.28 | 91 | 0.59 | 108 | 41.5 | 0 |
| 23-017 | NWT 23-026 | Katahdin | 100 | RMK 20-072 | 1/15/23 | 3 | RR | 1 | 141 | 0.42 | 137 | 0.63 | 114 | 37.0 | 19 |
| 23-018 | NWT 23-050 | Katahdin | 100 | NWT 22-037 | 1/21/23 | 2 | QR | 1 | 147 | 0.26 | 85 | 0.67 | 122 | 38.0 | 100 |
| 23-019 | NWT 23-051 | Katahdin | 100 | NWT 22-037 | 1/21/23 | 2 | RR | 1 | 145 | 0.35 | 116 | 0.66 | 120 | 36.5 | 0 |

Rolling Spring Farm, Lee & Cindy Wright; 12333 Deerfield Ln.; Glade Spring, VA 24340; 276-698-6079

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|--------|-----------|----------|-----|-----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-021 | WRI 23025 | Katahdin | 100 | WRI 21126 | 1/30/23 | 2 | RR | 1 | 122 | 0.36 | 118 | 0.58 | 106 | 33.5 | 411 |
| 23-023 | WRI 23029 | Katahdin | 100 | WRI 21126 | 1/31/23 | 1 | RR | 1 | 129 | 0.40 | 132 | 0.62 | 112 | 32.5 | 73 |
| 23-024 | WRI 23083 | Katahdin | 100 | USD 18318 | 2/6/23 | 2 | QR | 1 | 120 | 0.37 | 122 | 0.59 | 108 | 31.5 | 386 |
| 23-025 | WRI 23094 | Katahdin | 100 | USD 18318 | 2/7/23 | 2 | QR | 1 | 121 | 0.37 | 120 | 0.60 | 109 | 31.0 | 243 |

Exuberant Hearts Farm, Sandra Foster; 4103 SW 282nd St.; Newberry, FL 32669; 352-281-9515

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| 23-027 | DOG 23012 | Katahdin | 100 | PHL 22002 | 1/31/23 | 2 | RR | 3 | 98 | 0.31 | 102 | 0.47 | 85 | 32.0 | 121 |
|--------|-----------|----------|-----|-----------|---------|---|----|---|----|------|-----|------|----|------|-----|

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|--|---------------|----------|-----|------------|------------|------------|--------------------|---------------|--------------------|----------|-----------|--------------------|-----------|--------------|---------------|
| Huff Farms, Joe & Sue Huff; 2051 Coal Tipple Hollow; Lebanon, VA 24266; 276-971-0002 | | | | | | | | | | | | | | | |
| 23-030 | SJF 1081 | Katahdin | 100 | SRG 0444 | 2/9/23 | 3 | RR | 2 | 110 | 0.35 | 115 | 0.55 | 100 | 31.0 | 337 |
| Shepherd's Way Farm, Lisa Lewis; 35287 Fleet Rd.; Glade Spring, VA 24340; 276-780-3101 | | | | | | | | | | | | | | | |
| 23-037 | Shep Way 2394 | Katahdin | 100 | NCS 20-026 | 2/26/23 | 1 | RR | 3 | 103 | 0.30 | 99 | 0.56 | 102 | 32.5 | 206 |
| JJ's Katahdin Sheep Farm, Jeff & Mary Gross; 1918 Oak Rd; Defiance, IA 51527; 712-579-4906 | | | | | | | | | | | | | | | |
| 23-039 | JMG 0167 | Katahdin | 100 | NWT 19075 | 2/1/23 | 1 | RR | 2 | 102 | 0.28 | 92 | 0.49 | 89 | 30.0 | 51 |
| Silver Maple Sheep Farm, Jay & Irma Greenstone; 3533 Curt Russell Rd.; Jonesville, VA 24263; 276-346-7235 | | | | | | | | | | | | | | | |
| 23-051 | C39 | Katahdin | 100 | MOF 2016 | 2/15/23 | 2 | RR | 1 | 127 | 0.34 | 112 | 0.65 | 119 | 35.0 | 204 |
| 23-053 | C56 | Katahdin | 100 | JAG 634 | 2/26/23 | 2 | RR | 2 | 103 | 0.22 | 71 | 0.56 | 102 | 28.0 | 140 |
| Breezy Knoll Katahdins, Robert Phillips; 25405 Hillman Hwy; Abingdon, VA 24210; 276-492-0241 | | | | | | | | | | | | | | | |
| 23-054 | 23013 | Katahdin | 100 | NWT 19002 | 1/26/23 | 1 | RR | 2 | 111 | 0.31 | 102 | 0.52 | 94 | 35.0 | 169 |
| Hoss Hill Hair Sheep, Emily Hoss; 15676 Black Hollow Rd; Abingdon, VA 24210; 276-356-0028 | | | | | | | | | | | | | | | |
| 23-061 | 2351 | Katahdin | 100 | PHL 22018 | 1/16/23 | 2 | RR | 2 | 113 | 0.42 | 137 | 0.50 | 92 | 34.5 | 365 |
| 23-062 | 2360 | Katahdin | 100 | FLE 22341 | 2/15/23 | 2 | RR | 3 | 100 | 0.35 | 116 | 0.52 | 94 | 31.0 | 32 |
| Leaning Pine Farms, LLC, John Bruner; 2285 Stilesville Rd.; Science Hill, KY 42553; 606-271-0582 | | | | | | | | | | | | | | | |
| 23-063 | 2320 | Katahdin | 100 | NWT 19101 | 2/20/23 | 3 | RR | 1 | 124 | 0.35 | 113 | 0.65 | 119 | 35.5 | 552 |
| OW Farm, Pete Odle; 343 Crabapple Rd; Nickelsville, VA 24271; 276-479-2890 | | | | | | | | | | | | | | | |
| 23-069 | OW 508 | Katahdin | 100 | EVS 2110 | 1/29/23 | 1 | RR | 1 | 126 | 0.23 | 75 | 0.60 | 109 | 32.0 | 182 |
| Three M Farms, Brad Mullins; 1034 Osbornes Gap Rd.; Clintwood, VA 24228; 276-926-4605 | | | | | | | | | | | | | | | |
| 23-073 | MMM 2305 | Katahdin | 100 | NWT 7050 | 2/2/23 | 3 | RR | 1 | 143 | 0.32 | 105 | 0.69 | 125 | 35.0 | 120 |
| 23-074 | MMM 2309 | Katahdin | 100 | NWT 7050 | 1/29/23 | 2 | RR | 1 | 129 | 0.32 | 105 | 0.61 | 111 | 36.0 | 360 |

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|---------|----------|-------|---|------|------------|------------|--------------------|---------------|--------------------|----------|-----------|--------------------|-----------|--------------|---------------|
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Triple Oak Farm, Seth & Melonie Baker; P.O. Box 580, 478 Triple Oak Ln.; Clintwood, VA 24228; 276-219-8902

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|--------|---------|----------|-----|----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-077 | BKR 057 | Katahdin | 100 | MMM 1811 | 2/16/23 | 2 | RR | 2 | 117 | 0.33 | 108 | 0.60 | 110 | 31.0 | 133 |
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Triple L Farms, Larry & Lisa Weeks; 430 Baynes Rd.; Waynesboro, VA 22980; 540-480-8141

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| 23-079 | TLF 23027 | Katahdin | 100 | FLE 21041 | 2/8/23 | 2 | RR | 1 | 118 | 0.30 | 98 | 0.59 | 107 | 32.5 | 121 |
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Bernwood Farms, Matt Bernes; 2064 New Franklin Church Rd. Canon, GA 30520; 404-376-8244

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| 23-083 | BERN 327 | Katahdin | 100 | COR 20-04 | 2/12/23 | 2 | QR | 3 | 100 | 0.35 | 113 | 0.51 | 92 | 33.5 | 73 |
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Chastain Brothers, Kent Chastain; 310 Needle Eye Ln.; Delano, TN 37325; 423-715-1642

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| 23-084 | GKC 2376 | Katahdin | 100 | NWT 22036 | 2/27/23 | 1 | RR | 3 | 101 | 0.40 | 132 | 0.55 | 101 | 31.5 | 229 |
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| 23-085 | GKC 2326 | Katahdin | 100 | OW 365 | 1/14/23 | 1 | RR | 2 | 119 | 0.35 | 115 | 0.52 | 95 | 30.5 | 73 |
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| 23-086 | GKC 2332 | Katahdin | 100 | GKC 2101 | 1/15/23 | 1 | RR | 1 | 138 | 0.35 | 115 | 0.61 | 111 | 31.5 | 252 |
|--------|----------|----------|-----|----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|

Gingerich Family Katahdins, Silas & Joe Gingerich; 496 Cave Creek Trail; Jonesville, VA 24263; 276-870-6234

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| 23-087 | GFS 23311 | Katahdin | 100 | Meinders 1084 | 1/28/23 | 2 | RR | 1 | 143 | 0.43 | 141 | 0.67 | 122 | 35.5 | 166 |
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North Carolina State University, Andrew Weaver; Box 7621; Raleigh, NC 27695; 989-708-2557

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| 23-091 | NCS 23026 | Katahdin | 100 | NWT 22134 | 2/19/23 | 3 | RR | 3 | 97 | 0.31 | 102 | 0.51 | 92 | 32.5 | 78 |
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| 23-093 | NCS 23039 | Katahdin | 100 | NWT 22127 | 2/22/23 | 2 | QR | 3 | 99 | 0.42 | 138 | 0.53 | 96 | 32.5 | 61 |
|--------|-----------|----------|-----|-----------|---------|---|----|---|----|------|-----|------|----|------|----|

R&R Katahdin Farm, Randal & Rebecca Beal; P.O. Box 23, 214 Lakestone Ln.; Wellington, KY 40387; 606-768-3847

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| 23-095 | RNR 2316 | Katahdin | 100 | WRI 21028 | 2/1/23 | 3 | RR | 2 | 118 | 0.34 | 110 | 0.57 | 103 | 35.0 | 384 |
|--------|----------|----------|-----|-----------|--------|---|----|---|-----|------|-----|------|-----|------|-----|

Morehead State University, Patricia Harrelson; 25 MSU Farm Dr.; Morehead, KY 40351; 316-640-6992

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|--------|------|----------|-----|------------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-098 | 2321 | Katahdin | 100 | BC K092-23 | 1/31/23 | 2 | RR | 2 | 117 | 0.45 | 148 | 0.56 | 101 | 34.0 | 134 |
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| 23-099 | 2334 | Katahdin | 100 | FLE 21071 | 2/7/23 | 3 | RR | 3 | 105 | 0.35 | 113 | 0.52 | 94 | 32.0 | 86 |
|--------|------|----------|-----|-----------|--------|---|----|---|-----|------|-----|------|----|------|----|

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|--------|------|----------|-----|------------|--------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-101 | 2342 | Katahdin | 100 | BC K092-23 | 2/8/23 | 2 | QR | 1 | 119 | 0.36 | 119 | 0.59 | 108 | 33.0 | 445 |
|--------|------|----------|-----|------------|--------|---|----|---|-----|------|-----|------|-----|------|-----|

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| Test ID | Flock ID | Breed | % | Sire | Birth Date | Birth Type | Codon 171 Genotype | Pasture Group | 8/29/23 70-day Wt. | Test ADG | ADG Ratio | 8/29/23 70-day WDA | WDA Ratio | Scrotal Cir. | Mean Adj. FEC |
|---------|----------|-------|---|------|------------|------------|--------------------|---------------|--------------------|----------|-----------|--------------------|-----------|--------------|---------------|
|---------|----------|-------|---|------|------------|------------|--------------------|---------------|--------------------|----------|-----------|--------------------|-----------|--------------|---------------|

Silveridge, Laura Anderson; 400 Green Spring Rd.; Winchester, VA 22603; 540-336-4707

| | | | | | | | | | | | | | | | |
|--------|----------|----------|-----|----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|
| 23-104 | SIL 2308 | Katahdin | 100 | THF 2202 | 1/27/23 | 3 | RR | 1 | 135 | 0.34 | 110 | 0.63 | 115 | 35.5 | 340 |
|--------|----------|----------|-----|----------|---------|---|----|---|-----|------|-----|------|-----|------|-----|

Hoodley Creek, Kathleen Proffitt; 9840 Baileyton Rd.; Afton, TN 37616; 615-478-9335

| | | | | | | | | | | | | | | | |
|--------|----------|----------|-----|-----------|---------|---|----|---|-----|------|-----|------|----|------|-----|
| 23-105 | KKP 2657 | Katahdin | 100 | WRI 21085 | 1/24/23 | 2 | RR | 3 | 112 | 0.44 | 143 | 0.52 | 94 | 33.0 | 111 |
| 23-106 | KKP 2640 | Katahdin | 100 | MMM 2112 | 1/21/23 | 2 | RR | 2 | 112 | 0.38 | 124 | 0.51 | 93 | 29.0 | 346 |
| 23-107 | KKP 2654 | Katahdin | 100 | MMM 2112 | 1/23/23 | 2 | RR | 2 | 112 | 0.40 | 132 | 0.51 | 93 | 29.5 | 409 |

Maierle Sheep Company, Camren Maierle; PO Box 431 (6327 National Rd.) Jacksontown, OH 43030; 740-887-5529

| | | | | | | | | | | | | | | | |
|--------|------|----------|-----|---------|---------|---|----|---|-----|------|----|------|----|------|----|
| 23-108 | D051 | Katahdin | 100 | MOF 306 | 1/15/23 | 2 | RR | 2 | 102 | 0.22 | 71 | 0.45 | 82 | 32.5 | 11 |
|--------|------|----------|-----|---------|---------|---|----|---|-----|------|----|------|----|------|----|

Old Slate Farm, Brad Carothers; 7510 Granville Rd. Mount Vernon, OH 43050; 740-398-1279

| | | | | | | | | | | | | | | | |
|--------|-------|----------|-----|-----------|--------|---|----|---|-----|------|-----|------|-----|------|----|
| 23-113 | 23096 | Katahdin | 100 | NCS 22035 | 3/8/23 | 2 | QR | 3 | 102 | 0.34 | 112 | 0.59 | 107 | 31.5 | 41 |
|--------|-------|----------|-----|-----------|--------|---|----|---|-----|------|-----|------|-----|------|----|

| | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|--|------------|-------------|------------|-------------|------------|-------------|------------|
| 103 Rams Tested Avg. | | | | | | | | | 111 | 0.31 | 100 | 0.55 | 100 | 32.6 | 305 |
|-----------------------------|--|--|--|--|--|--|--|--|------------|-------------|------------|-------------|------------|-------------|------------|

Understanding NSIP Data

Scott Greiner, Extension Sheep Specialist, Virginia Tech

Estimated Breeding Values (EBVs) are reported for the sheep industry through performance recording in the National Sheep Improvement Program (NSIP). Complex statistical equations and models use all known information on a particular animal to calculate its EBV. This information includes performance data (i.e. lambing, growth, FEC records) on the animal itself, information from its ancestors (sire and dam, grandsire, great grandsire, maternal grandsire, etc.), collateral relatives (brothers and sisters), and progeny (including progeny that are parents themselves). In short, virtually all performance data that relates to the animal of interest is used to calculate its EBV. The statistical analysis used for EBV calculation also accounts for the effects of environmental differences that exist between flocks (nutrition, climate, geographical location, etc.), as well as relationships between traits. EBVs generated through the across-flock NSIP analysis allows genetic merit to be fairly compared on sheep from different flocks, and therefore EBVs are the best tool for genetic selection and improvement.

EBVs provide estimates of the genetic value of an animal as a parent. Specifically, half the difference in EBVs between two individuals is the expected difference in performance between their future progeny when each is mated to animals of the same genetic merit (EBVs are similar to EPDs- an EPD is half the value of an EBV). EBVs are reported for the following traits:

Maternal Weaning Weight EBV (MWWT): Estimates genetic differences in mothering ability and milk production. EBV reflects differences in daughter's lambs weaning weight (kg) primarily due to superior milk production.

Weaning Weight EBV (WWT): predicts genetic merit for weaning growth potential (measured in kg). A ram with a +2.0 WWT EBV would be expected to produce progeny that average 1.0 kg heavier at 60 days of age when compared to a ram with a +0.0 WWT EBV (ram transmits half the difference of the EBV difference to progeny)

Post Weaning Weight EBV (PWWT): predicts genetic merit for post-weaning growth potential (measured in kg). A ram with a +4.0 PWWT EBV would be expected to produce progeny that average 2.0 kg heavier at 120 days of age when compared to a ram with a +0.0 WW EBV (ram transmits half the difference of the EBV difference to progeny)

Weaning Fecal Egg Count EBV (WFEC): EBV predicts genetic merit for parasite resistance at weaning based on worm egg counts. Animals with low FEC EBVs are expected to have greater parasite resistance. EBV is expressed as percentage. EBVs

Post Weaning Fecal Egg Count EBV (PFEC): EBV predicts genetic merit for parasite resistance post-weaning. Animals with low FEC EBVs are expected to have greater parasite resistance. EBV is expressed as percentage. EBVs

Number Lambs Born EBV (NLB): EBV indicates genetic potential for fertility of a ram's daughters, and is expressed as a percentage. Comparing an animal with a +10 Lambs Weaned EBV vs. an animal which is +5, the animal with +10 Lambs Weaned EBV would be expected to produce daughters which give birth to 2.5% more lambs (half the difference in their EBVs)

Number Lambs Weaned EBV (NLW): EBV indicates genetic potential for fertility and lamb survival, and is expressed as a percentage. Comparing an animal with a +10 Lambs Weaned EBV vs. an animal which is +5, the animal with +10 Lambs Weaned EBV would be expected to produce daughters which wean 2.5% more lambs (half the difference in their EBVs)

USA Hair Index EBV: Hair Index (aka Katahdin Index, Ewe Productivity Index) predict genetic merit for a combination of growth and maternal traits resulting in pounds of lamb weaned per ewe lambing. The index includes MWWT, WWT, NLB, and NLW EBVs and is a measure of overall maternal ability.

This catalog contains EBVs for rams from flocks participating in NSIP. The EBVs reported are current as of the time of catalog publishing. Also provided is the unique **NSIP ID** number for each ram. This number may be plugged into the online NSIP Searchable Database at <http://nsip.org/> to access the most current EBVs.

2023 Southwest AREC Ram Test Sale NSIP EBVs

| Test ID | Flock ID | NSIP ID | EBV WWT | EBV MWWT | EBV PWWT | EBV WFEC | EBV PFEC | EBV NLB% | EBV NLW% | EBV USA HAIR |
|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|--------------|
|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|--------------|

Beyond Blessed Farm, Chris & Mandy Fletcher; 15424 Blessed Ln.; Abingdon, VA 24210; 276-698-8768

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-001 | BBF 23357 | 6401492023FLE357 | +2.2 | +0.3 | +3.9 | -21 | +5 | +13 | +12 | +103 |
| 23-002 | BBF 23302 | 6401492023FLE302 | +2.1 | +1.0 | +2.5 | -23 | -39 | +11 | +13 | +103 |
| 23-004 | BBF 23321 | 6401492023FLE321 | +2.2 | +0.4 | +3.4 | -21 | -41 | +6 | +9 | +102 |
| 23-005 | BBF 23345 | 6401492023FLE345 | +1.8 | +0.2 | +3.5 | -36 | -25 | +11 | +10 | +102 |

Birch Cove Farm, David Coplen; 4702 Birch Cove Dr.; Fulton, MO 65251; 573-642-7746

| | | | | | | | | | | |
|--------|---------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-006 | BCN 165 | 6400312023BCN165 | +3.0 | +1.1 | +5.3 | -53 | -37 | +13 | +15 | +104 |
| 23-007 | BCN 172 | 6400312023BCN172 | +2.8 | +1.7 | +5.3 | -42 | -43 | +15 | +19 | +105 |
| 23-009 | BCN 183 | 6400312023BCN183 | +1.4 | +1.1 | +3.3 | -65 | -71 | +5 | +11 | +103 |

Ewe Lamb Right Farm, LLC, Dan & Jan Turner; 210 Big Pond Rd.; Shippensburg, PA 17257; 717-512-8127

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-011 | ELR 23035 | 6401562023ELR035 | +3.1 | +0.9 | +5.9 | -72 | -36 | +6 | +15 | +104 |
| 23-013 | ELR 23069 | 6401562023ELR069 | +4.2 | +0.2 | +7.1 | -28 | -43 | +37 | +26 | +105 |
| 23-015 | ELR 23160 | 6401562023ELR160 | +3.8 | +1.3 | +7.4 | -78 | -65 | +12 | +18 | +104 |

Hound River Farm, Roxanne Newton; 5550 Skipper Bridge Rd.; Hahira, GA 31632; 229-740-0017

| | | | | | | | | | | |
|--------|------------|------------------|------|------|------|-----|------|-----|-----|------|
| 23-016 | NWT 23-021 | 6400522023NWT021 | +1.4 | +0.8 | +1.8 | -70 | -96 | +8 | +13 | +103 |
| 23-017 | NWT 23-026 | 6400522023NWT026 | +2.5 | +0.4 | +3.9 | -87 | -97 | +12 | +14 | +103 |
| 23-018 | NWT 23-050 | 6400522023NWT050 | +2.6 | +0.8 | +4.1 | -92 | -100 | +12 | +15 | +103 |
| 23-019 | NWT 23-051 | 6400522023NWT051 | +2.3 | +0.8 | +3.7 | -94 | -100 | +12 | +14 | +103 |

Rolling Spring Farm, Lee & Cindy Wright; 12333 Deerfield Ln.; Glade Spring, VA 24340; 276-698-6079

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-021 | WRI 23025 | 6400452023WRI025 | +3.2 | +0.8 | +5.5 | -33 | +20 | +13 | +15 | +104 |
| 23-023 | WRI 23029 | 6400452023WRI029 | +3.4 | +1.4 | +5.4 | -24 | +13 | +8 | +11 | +103 |
| 23-024 | WRI 23083 | 6400452023WRI083 | +2.6 | +1.6 | +4.6 | -35 | -12 | +10 | +14 | +104 |
| 23-025 | WRI 23094 | 6400452023WRI094 | +2.7 | +1.2 | +4.5 | -20 | -17 | +12 | +15 | +104 |

Shepherd's Way Farm, Lisa Lewis; 35287 Fleet Rd.; Glade Spring, VA 24340; 276-780-3101

| | | | | | | | | | | |
|--------|---------------|------------------|------|------|------|-----|-----|----|-----|------|
| 23-037 | Shep Way 2394 | 6402762023SW2394 | +1.5 | +0.4 | +3.0 | -64 | -66 | +9 | +10 | +102 |
|--------|---------------|------------------|------|------|------|-----|-----|----|-----|------|

2023 Southwest AREC Ram Test Sale NSIP EBVs

| Test ID | Flock ID | NSIP ID | EBV WWT | EBV MWWT | EBV PWWT | EBV WFEC | EBV PFEC | EBV NLB% | EBV NLW% | EBV USA HAIR |
|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|--------------|
|---------|----------|---------|---------|----------|----------|----------|----------|----------|----------|--------------|

JJ's Katahdin Sheep Farm, Jeff & Mary Gross; 1918 Oak Rd; Defiance, IA 51527; 712-579-4906

| | | | | | | | | | | |
|--------|----------|------------------|-----|-----|-----|-----|-----|---|---|-------|
| 23-039 | JMG 0167 | 6402252023JMG167 | 1.1 | 0.8 | 1.8 | -39 | -66 | 6 | 8 | 102.1 |
|--------|----------|------------------|-----|-----|-----|-----|-----|---|---|-------|

Breezy Knoll Katahdins, Robert Phillips; 25405 Hillman Hwy; Abingdon, VA 24210; 276-492-0241

| | | | | | | | | | | |
|--------|-------|------------------|------|------|------|-----|-----|-----|----|------|
| 23-054 | 23013 | 6402142023PHL013 | +1.8 | +0.2 | +3.1 | N/A | N/A | +10 | +9 | +102 |
|--------|-------|------------------|------|------|------|-----|-----|-----|----|------|

Triple L Farms, Larry & Lisa Weeks; 430 Baynes Rd.; Waynesboro, VA 22980; 540-480-8141

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|----|----|------|
| 23-079 | TLF 23027 | 6400442023TLF027 | +1.8 | +1.0 | +2.5 | -41 | -60 | +5 | +6 | +102 |
|--------|-----------|------------------|------|------|------|-----|-----|----|----|------|

Gingerich Family Katahdins, Silas & Joe Gingerich; 496 Cave Creek Trail; Jonesville, VA 24263; 276-870-6234

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-087 | GFS 23311 | 6402022023GFS311 | +2.6 | +1.6 | +3.8 | +23 | +13 | +12 | +15 | +104 |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|

North Carolina State University, Andrew Weaver; Box 7621; Raleigh, NC 27695; 989-708-2557

| | | | | | | | | | | |
|--------|-----------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-091 | NCS 23026 | 6402382023NCS026 | +2.5 | +2.2 | +4.2 | -38 | -37 | +17 | +17 | +104 |
| 23-093 | NCS 23039 | 6402382023NCS039 | +2.8 | +1.0 | +5.0 | -54 | -53 | +18 | +19 | +104 |

R&R Katahdin Farm, Randal & Rebecca Beal; P.O. Box 23, 214 Lakestone Ln.; Wellington, KY 40387; 606-768-3847

| | | | | | | | | | | |
|--------|----------|------------------|------|------|------|-----|-----|----|-----|------|
| 23-095 | RNR 2316 | 6402032023RNR316 | +2.8 | +1.5 | +4.8 | N/A | N/A | +9 | +11 | +103 |
|--------|----------|------------------|------|------|------|-----|-----|----|-----|------|

Morehead State University, Patricia Harrelson; 25 MSU Farm Dr.; Morehead, KY 40351; 316-640-6992

| | | | | | | | | | | |
|--------|------|------------------|------|------|------|-----|-----|-----|-----|------|
| 23-098 | 2321 | 6402662023MSU021 | +1.6 | +0.5 | +3.2 | -82 | -92 | +15 | +18 | +104 |
| 23-099 | 2334 | 6402662023MSU034 | +2.1 | +1.1 | +3.6 | -60 | -57 | +12 | +9 | +102 |
| 23-101 | 2342 | 6402662023MSU042 | +2.0 | +0.7 | +3.5 | -46 | -44 | +10 | +14 | +103 |

Maierle Sheep Company, Camren Maierle; PO Box 431 (6327 National Rd.) Jacksontown, OH 43030; 740-887-5529

| | | | | | | | | | | |
|--------|------|------------------|------|------|------|-----|-----|----|-----|------|
| 23-108 | D051 | 6402772023CXM051 | +1.1 | +0.1 | +0.9 | N/A | N/A | +8 | +11 | +102 |
|--------|------|------------------|------|------|------|-----|-----|----|-----|------|

Old Slate Farm, Brad Carothers; 7510 Granville Rd. Mount Vernon, OH 43050; 740-398-1279

| | | | | | | | | | | |
|--------|-------|------------------|------|------|------|-----|-----|----|----|------|
| 23-113 | 23096 | 6401802023OSF096 | +1.6 | +0.0 | +2.5 | -65 | -70 | +1 | +6 | +102 |
|--------|-------|------------------|------|------|------|-----|-----|----|----|------|

| | | | | | | | | | | |
|----------------------------|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| | | <i>Katahdin Percentile Report Sept. 2023</i> | WWT | MWWT | PWWT | WFEC | PFEC | NLB% | NLW% | USA HAIR |
| Katahdin breed avg. | | | +1.6 | +0.6 | +2.7 | -29 | -26 | +8 | +11 | +102.5 |

**2023 Southwest AREC Ram Test Sale
Sale Order**

| Lot | Consignor | Price | Buyer |
|--------|------------|-------|-------|
| 23-019 | Newton | | |
| 23-017 | Newton | | |
| 23-087 | Gingerich | | |
| 23-023 | Wright | | |
| 23-073 | Mullins | | |
| 23-113 | Carrothers | | |
| 23-016 | Newton | | |
| 23-098 | MSU | | |
| 23-093 | NC State | | |
| 23-002 | Fletcher | | |
| 23-018 | Newton | | |
| 23-051 | Greenstone | | |
| 23-105 | Proffitt | | |
| 23-062 | Hoss | | |
| 23-077 | Baker | | |
| 23-085 | Chastain | | |
| 23-013 | Turner | | |
| 23-025 | Wright | | |
| 23-084 | Chastain | | |
| 23-086 | Chastain | | |
| 23-079 | Weeks | | |
| 23-083 | Bernes | | |
| 23-099 | MSU | | |
| 23-005 | Fletcher | | |
| 23-015 | Turner | | |

| Lot | Consignor | Price | Buyer |
|--------|------------|-------|-------|
| 23-009 | Coplen | | |
| 23-007 | Coplen | | |
| 23-104 | Anderson | | |
| 23-001 | Fletcher | | |
| 23-091 | NC State | | |
| 23-024 | Wright | | |
| 23-063 | Bruner | | |
| 23-039 | Gross | | |
| 23-006 | Coplen | | |
| 23-074 | Mullins | | |
| 23-101 | MSU | | |
| 23-037 | Lewis | | |
| 23-021 | Wright | | |
| 23-061 | Hoss | | |
| 23-069 | Odle | | |
| 23-030 | Huff | | |
| 23-054 | Phillips | | |
| 23-095 | Beal | | |
| 23-107 | Proffitt | | |
| 23-011 | Turner | | |
| 23-106 | Proffitt | | |
| 23-004 | Fletcher | | |
| 23-108 | Maierle | | |
| 23-053 | Greenstone | | |
| 23-027 | Foster | | |