

**Late additions to USDA-Agricultural Research Service,
Dale Bumpers Small Farms Research Center
Premium Katahdin Sale
Bids due July 9th, 2020 at 12:00 Noon Central Time**

Conditions & Terms of Sale

This sale opportunity has ewe and ram lambs as well as mature rams for sale (and possible late entry mature ewes).
Buyer will bid on a single animal Lot.

Bids must be greater than or equal to the floor price set on each lot. Indicate top dollar willing to bid so that a competitive bid can occur. If more than one bidder places bid, bid will increase by \$5 increments until top bid amount is reached. If only one bid is placed on a lot, the lot will be sold at the floor price for that lot.

Seller reserves the right to remove a Lot. ***Should the buyer desire USDA to consider a Lot bid **ONLY IF** they fail to win (outbid) another lot #; then the buyer may check mark the statement on the Lot Bid Sheet and identify the Lot #(s) that take precedence.***

Bid Submission – Bids can be submitted anytime but **MUST** be received **no later than 12:00 Noon Central July 9th, 2020** by ANY of the following methods: _____

- Email – erinl.wood@usda.gov or jennifer.keatts@usda.gov
- Phone – Erin Wood 479-849-5610 or Jennifer Keatts 479-322-1530
- Mail – Premier Sheep Sale Dale Bumpers Small Farms Res Center, 6883 S. State Hwy 23, Booneville, AR 72927. **If submitting by mail please mail no later than June 25th and call Jennifer or Erin to let them know it is on the way. Bidder will be contacted to confirm bid was received.**

All sheep are to be sold as-is. All animals are at purchaser's risk as soon as sold. Buyers shall rely entirely on their own inspection and information. The seller reserves the right to remove any animal for health or soundness reasons from the sale at any time until they are loaded on the buyer's transport. **Seller retains right to accept/reject any bid after the close of bidding but prior to the animal(s) being loaded onto buyer's transport.**

Employees of the USDA, ARS, Dale Bumpers Small Farms Research Center and their immediate families are NOT allowed to participate in this sale.

Out-of-state buyers should contact their State Veterinarian before bidding to determine any testing requirements imposed by a buyer's home state. To provide interstate health papers we will need the mailing address of the destination of purchased sheep and the carrier's name, address and telephone number.

Payment by the buyer will be due prior to the pickup of animals by a check payment or cashier's check made payable to:
USDA, ARS, DBSFRC
6883 S. State Hwy 23
Booneville, AR 72927

These terms and conditions of sale are a contract between buyer and seller. Each sale of an animal is a separate transaction. No person or organization associated with the sale assumes any liability, legal or otherwise.

Animal Viewing

Due to Covid-19, animal viewing will be ONLY be done virtually using a mutually agreed upon platform (i.e. FaceTime, Samsung video, Messenger).

Call Chad Lee 479-206-1224 or Erin Wood 479-849-5610 to set up a virtual viewing appointment.

Animal Pickup

Animals must be picked up, no later than July 23rd, 2020 by close of business (3:30PM) or at a time/date mutually agreeable between both Buyer/Seller.

Buyer is responsible for animal pick up and will be contacted to arrange a date and time shortly after the sale has concluded. Pickup location will be at the South Logan County Fairgrounds in Booneville, AR. Buyer will inspect the animals and return to their vehicle, at which time the seller will load the animals onto the buyer's truck/trailer. Once animal(s) are loaded, it is buyer's responsibility to check gate/enclosure to ensure loaded animal(s) are properly secured before transport.

Late Animal Entries

A small number of mature ewes that have been exposed to a ram but are NOT considered pregnant may be added to the sale at a later date (around July 7th). Check the website for catalog updates and additions.

<https://www.ars.usda.gov/southeast-area/booneville-ar/dale-bumpers-small-farms-research-center/>

Lots 27, 28, & 29 were determined as safe/pregnant on 7/6/20 by ultrasound with lambing potential Oct-Nov 20. Sires are unknown, but can be determined on offspring by buyer using DNA testing after lambs are born.

To determine sire of lambs from mature ewes, DNA from lamb is required (blood card or ear tissue) and from potential sires (multiple sires were used for breeding). ARS will submit potential sire DNA to GeneSeek (<https://genomics.neogen.com>) for parentage determination on ARS fall lambs; thus, producers need only to submit samples from each lamb at buyer's cost. If buyer prefers to use Flock54 (www.flock54.com), sire DNA may be submitted by ARS and buyer bare cost of submitting samples from lambs. Mention of trade names or commercial products is solely for the purpose of providing specific information and does not imply recommendation or endorsement by the U.S. Department of Agriculture.

It is recommended pregnant dams are vaccinated with C D, & T and be in consultation with a veterinarian about administering Bo-Se approximately 30 days before lambing.

For questions contact:

Joan Burke- 479-849-5399

Erin Wood- 479-849-5610

Chad Lee- 479-261-1224

Mature Ewes

Lot #27

FLOOR PRICE:
\$250

ID: LEA1604
NSIP #: 6401322016LEA004
DOB: 4/17/16
SIRE ID: LEA1521
DAM ID: BUL14064
Genotype: QR
Birth/Rear Type:
Hoof Color: Black/White
Recent Wt (lb): 199
Registered: Yes

EBVs
WWT: 1.90
PWWT: 3.73
WFEC: -26.38
PFEC: -30.19
NLB: 0.002
NLW: 0.08
MWWT: 0.97
INDEX: 105.70

Genetic Highlights (what you can expect from offspring):

Good growth.
Determined bred by ultrasound on 7/6/2020 for Oct 2020 lambing



Lot #28

FLOOR PRICE:
\$250

ID: USD18271
NSIP #: 6400612018USD271
DOB: 11/05/18
SIRE ID: USD17012
DAM ID: USD15117
Genotype: QR
Birth/Rear Type: 2/2
Hoof Color: White
Recent Wt (lb): 112
Registerable: 87.5%*

EBVs
WWT: -0.23
PWWT: -1.41
WFEC: 15.34
PFEC: 23.22
NLB: -0.17
NLW: -0.02
MWWT: 1.18
INDEX: 102.27

Genetic Highlights (what you can expect from offspring):

Good maternal milk
*Will upgrade to 100% at the time of registration transfer.
Determined bred by ultrasound 7/6/2020 for Oct 2020 lambing



Lot #29

FLOOR PRICE:
\$250

ID: USD18332
NSIP #: 6400612018USD332
DOB: 11/22/18
SIRE ID: USD17012
DAM ID: USD16046
Genotype: QR
Birth/Rear Type: 2/2
Hoof Color: Black
Recent Wt (lb): 103
Registered: Yes

EBVs
WWT: 0.76
PWWT: 1.01
WFEC: -4.85
PFEC: -12.32
NLB: -0.14
NLW: -0.03
MWWT: 0.90
INDEX: 101.64

Genetic Highlights (what you can expect from offspring):

Good maternal milk.
Determined bred by ultrasound on 7/6/2020 for Oct 2020 lambing



Lot #30

FLOOR PRICE:
\$200

ID: LEA1731
NSIP #: 6401322017LEA031
DOB: 4/24/17
SIRE ID: USD10079
DAM ID: LEA1514
Genotype: QR
Birth/Rear Type:
Hoof Color: White
Recent Wt (lb): 144
Registered: Yes

Genetic Highlights (what you can expect from offspring):

Good parasite resistance

EBVs
WWT: 1.38
PWWT: 2.08
WFEC: -61.17
PFEC: -81.96
NLB: -0.06
NLW: 0.08
MWWT: 0.18
INDEX: 104



Lot #31

FLOOR PRICE:
\$150

ID: USD14004
NSIP #: 6400612014USD004
DOB: 1/28/14
SIRE ID: USD3154
DAM ID: USD11001
Genotype: RR
Birth/Rear Type: 3/2
Hoof Color: White
Recent Wt (lb): 137
Registered: Yes

Genetic Highlights (what you can expect from offspring):

Always produced twins; great parasite resistance and maternal milk.

EBVs
WWT: 0.46
PWWT: 0.82
WFEC: -67.56
PFEC: -92.48
NLB: 0.10
NLW: 0.05
MWWT: 1.10
INDEX: 104.24



Lot #32

FLOOR PRICE:
\$200

ID: USD17061
NSIP #: 6400612017USD061
DOB: 2/14/17
SIRE ID: USD16028
DAM ID: USD14374
Genotype: QR
Birth/Rear Type: 2/2
Hoof Color: Black/White
Recent Wt (lb): 128
Registered: Yes

Genetic Highlights (what you can expect from offspring):

Excellent parasite resistance.

EBVs
WWT: 0.57
PWWT: -0.17
WFEC: -83.61
PFEC: -98.80
NLB: -0.03
NLW: 0.09
MWWT: 0.55
INDEX: 105.23



Lot #33

FLOOR PRICE:
\$200

ID: USD17134
NSIP #: 6400612017USD134
DOB: 2/21/17
SIRE ID: NWT16080
DAM ID: USD14314
Genotype: QR
Birth/Rear Type: 2/2
Hoof Color: Black/White
Recent Wt (lb): 146
Registered: 75% Recorded NOT Registered

EBVs
WWT: 0.89
PWWT: 0.72
WFEC: -93.35
PFEC: -99.80
NLB: -0.12
NLW: -0.04
MWWT: 0.53
INDEX: 100.22

Genetic Highlights (what you can expect from offspring):

Excellent parasite resistance.



Lot #34

FLOOR PRICE:
\$250

ID: USD18001
NSIP #: 6400612018USD001
DOB: 1/9/18
SIRE ID: NWT16080
DAM ID: USD15142
Genotype: QR
Birth/Rear Type: 1/1
Hoof Color: Black
Recent Wt (lb): 124
Registered: Yes

EBVs
WWT: -0.20
PWWT: -0.32
WFEC: -88.84
PFEC: -98.36
NLB: -0.17
NLW: -0.03
MWWT: 0.50
INDEX: 100.53

Genetic Highlights (what you can expect from offspring):

Excellent parasite resistance.

Was treated for infection in right ear 7/6/20 from tick.



Lot #35

FLOOR PRICE:
\$250

ID: USD18120
NSIP #: 6400612018USD120
DOB: 1/23/18
SIRE ID: NWT16080
DAM ID: USD14321
Genotype: QR
Birth/Rear Type: 2/2
Hoof Color: White
Recent Wt (lb): 128
Registered: Yes

EBVs
WWT: 0.46
PWWT: -0.03
WFEC: -96.71
PFEC: -99.96
NLB: -0.08
NLW: 0.03
MWWT: 1.04
INDEX: 103.84

Genetic Highlights (what you can expect from offspring):

Excellent parasite resistance and maternal milk



Lot #36

FLOOR PRICE:
\$200

ID: USD18198
NSIP #: 6400612018USD198
DOB: 10/18/18
SIRE ID: USD17012
DAM ID: USD11070
Genotype: QR
Birth/Rear Type: 3/0 (Orphaned)
Hoof Color: White
Recent Wt (lb): 146
Registered: 75% Recorded NOT Registered

EBVs
WWT: 1.94
PWWT: 4.04
WFEC: -57.76
PFEC: -76.43
NLB: -0.12
NLW: -0.08
MWWT: 0.44
INDEX: 98.46

Genetic Highlights (what you can expect from offspring):

Good growth and parasite resistance.



Lot #37

FLOOR PRICE:
\$250

ID: USD18214
NSIP #: 6400612018USD214
DOB: 10/30/18
SIRE ID: USD17012
DAM ID: USD14162
Genotype: QQ
Birth/Rear Type: 2/2
Hoof Color: Black
Recent Wt (lb): 105
Registered: Yes

EBVs
WWT: 0.53
PWWT: 0.93
WFEC: -71.35
PFEC: -88.23
NLB: -0.12
NLW: 0.03
MWWT: 0.89
INDEX: 103.54

Genetic Highlights (what you can expect from offspring):

Good parasite resistance.



Lot #38

FLOOR PRICE:
\$250

ID: USD18137
NSIP #: 6400612018USD137
DOB: 1/24/18
SIRE ID: USD16194
DAM ID: USD15157
Genotype: RR
Birth/Rear Type: 1/1
Hoof Color: Black
Recent Wt (lb): 130
Registered: Yes

EBVs
WWT: 2.573
PWWT: 5.326
WFEC: -22.31
PFEC: -50.9
NLB: -0.06
NLW: -0.01
MWWT: 1.17
INDEX: 103.08

Genetic Highlights (what you can expect from offspring):

Excellent maternal milk and growth potential on lambs



Lot #39

FLOOR PRICE:
\$250

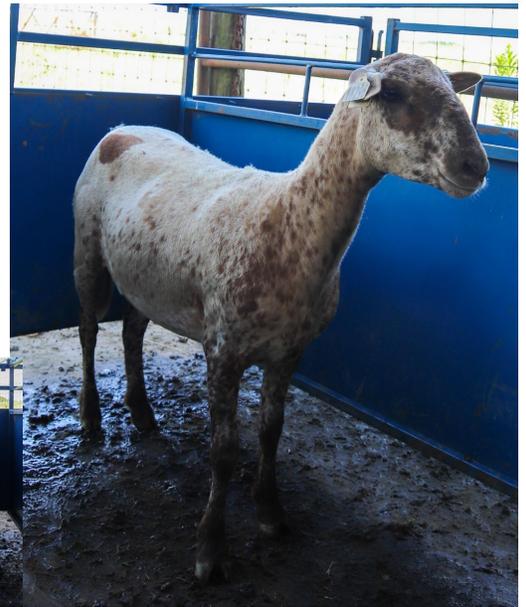
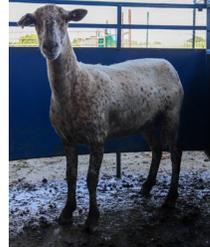
ID: USD18296
NSIP #: 6400612018USD296
DOB: 11/8/18
SIRE ID: USD17170
DAM ID: USD14383
Genotype: QR
Birth/Rear Type: 1/1
Hoof Color: Black
Recent Wt (lb): 113
Registerable: 87.5%*

EBVs
WWT: 1.58
PWWT: 2.18
WFEC: -58.93
PFEC: -77.45
NLB: 0.01
NLW: 0.12
MWWT: 0.49
INDEX: 106.1

Genetic Highlights (what you can expect from offspring):

Well balanced ewe.

*Will upgrade to 100% at the time of registration transfer.



Lot #	Tag	Floor price, \$	Buyer Max Bid Amt	By checking row (x) I request that you only consider the bid for this Lot # should I NOT be the highest bidder for Lot#____ (to be completed by bidder) or Lot #____ (enter more numbers if necessary). Bidder Initials next to x.		
EXAMPLE	Rams				Lot #	Lot # (if desired)
AA	USD55555	300	500			
BB	USD15555	300	455	X	AA	
CC	USD25555	300	455	X	AA	BB
Lot #	Mature Rams & Fall Born Ram Lambs	Floor price, \$	Buyer Max Bid Amt		Lot #	Lot # (if desired)
27	LEA1604	250				
28	USD18271	250				
29	USD18332	250				
30	LEA1731	200				
31	USD14004	150				
32	USD17061	200				
33	USD17134	200				
34	USD18001	250				
35	USD18120	250				
36	USD18198	200				
37	USD18214	250				
38	USD18137	250				
39	USD18296	250				

Please ensure you have double checked Lot numbers and desired bids

Bid Submitted By:

Bidder Physical Address:

Bidder Mailing Address:

Bidder Phone Number:

Glossary of Terms

Registrations/recordation

Ewe lambs that are 87.5 % or more can be hair coat inspected for registration after one year of age if inspected with an A or B coat. Less than 87.5% can be recorded. Ram lambs that are 87.5 % or more can be hair coat inspected for registration after one year of age if inspected with an A or B coat, AND dam must be inspected with an A coat. Less than 87.5% can be recorded.

Hair Coat Definitions:

A- Completely sheds

B- Less than 25% of body does not shed

C- Greater than 25% of body does not shed

EBVs - Expected Breeding Values are provided by the National Sheep Improvement Program. The genetic evaluation is overseen by Dr Dave Notter at Virginia Tech. EBVs evaluate relative performance of animals raised in different flocks and different years. By evaluating relative performance and the use of advanced mathematical and statistical analyses, EBVs are more accurate at determining the relative genetic merit of animals. This helps breeders factor out the environmental differences including but not limited to nutrition, number born/reared, heat and humidity. EBVs are a more accurate estimate of genetic potential for growth than raw weights, adjusted weights and mature size.

Using EBVs - A simplified approach is that an animal with a value greater than zero is predicted by NSIP (which uses the standard genetic evaluation procedures used by all livestock species) to be above the breed average for that performance trait. Selecting animals with positive values for growth and milk traits will identify animals that are predicted to be above average for the breed for those traits (using the best technology available to the livestock industry). Selecting animals with a 0.0% Lamb Crop EBV predicts that they will pass on twinning genetics. In the Katahdin breed, a ewe with a 0.0% Lamb Crop EBV is predicted to have a 210% lamb crop/ litter as a mature ewe (3-6 years of age).

EBV Definitions:

Wwt - 60-Day Weaning Weight EBV provides an estimate of preweaning growth potential. (e.g. Sheep with a value of above 0.0 are predicted to be greater than the breed average). Provides an estimate of preweaning growth potential and will likely receive positive selection emphasis in most flocks.

PWwt - The 120-day Post weaning Weight EBV combines information on preweaning and post weaning growth to predict genetic merit for post weaning weight at 120 days. Positive selection on Post weaning Weight EBV is expected to favor rapid growth to typical market ages.

MWwt - Maternal Weaning Weight (MWwt) EBV estimates genetic merit for mothering ability. This EBV mainly reflects genetic differences in ewe milk production, but other aspects of maternal behavior may also be involved. The Maternal Weaning Weight EBV is derived by evaluating if individual ewes produce lambs that are heavier or lighter than expected based on the weaning weight EBVs of the parents. Ewes whose lambs grow faster than predicted are assumed to be better milk producers, whereas ewes whose lambs grow more slowly than predicted are assumed to produce less milk. Selection for high maternal milk EBVs is expected to improve milk production and mothering ability and considered to be important for maternal breeds.

NLB (%) - evaluates genetic potential for prolificacy. This EBV is expressed as numbers of lambs born per 100 ewes lambing. An EBV of +5.0 for Number of Lambs Born indicates that an animal is expected to produce daughters who will have an average of .05 more lambs at each lambing, or 5.0 more lambs per 100 lambings, than an average ewe. Selection on Number of Lambs Born EBV is expected to increase prolificacy in the flock. The Katahdin breed average in NSIP is 210%.

NLW (%) evaluates combined ewe effects on prolificacy and lamb survival to weaning. The NLW EBV is expressed as numbers of lambs weaned per 100 ewes lambing. An EBV of +5.0 for Number of Lambs Weaned indicates that an animal is expected to produce daughters who will wean an average of .05 more lambs at each lambing, or 5.0 more lambs per 100 lambings, than an average ewe. Selection on the Number of Lambs Weaned EBV is expected to increase weaning rates in the flock.

WFEC & PFEC D (weaning fecal egg count & post weaning fecal egg count) evaluates genetic merit for parasite resistance based on worm egg counts recorded at weaning or at early or late post weaning ages. Animals with low (negative) Worm Egg Count EBVs are expected to have greater parasite resistance, and selection to reduce Worm Egg Count EBVs is recommended in areas where internal parasites are a problem. Most research would suggest that post weaning WEC EBVs are the most useful genetic indicator of parasite resistance, but studies with Katahdin sheep in the USA have shown that weaning worm egg counts provide useful information on parasite resistance in young lambs. Weaning and post weaning Worm Egg Count EBVs are strongly, but not perfectly, correlated and so convey slightly different information on patterns of development of parasite resistance. However, post weaning Worm Egg Count EBVs are likely adequate for most selection and marketing purposes.

EPT or USA Maternal/Hair Index The Ewe Productivity Index (%) combines EBVs for NLW, NLB, WWT & MWwt into an index designed to maximize pounds of lambs weaned per ewe lambing.