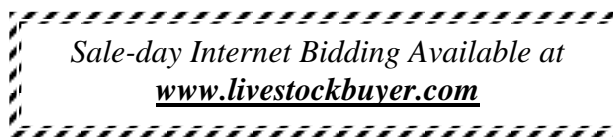# VIRGINIA TECH™

19th Annual
VIRGINIA TECH SHEEP CENTER
PRODUCTION SALE

Saturday, September 1, 2018 10:00 a.m.
Virginia Tech Alphin-Stuart Livestock Arena
500 Plantation Road
Blacksburg, Virginia

*Selling Dorset & Suffolk ram lambs
and select group of ewe lambs*

Sale-day Internet Bidding Available at
www.livestockbuyer.com

LIVESTOCKBUYER.COM
Online Livestock Marketing

Sale Day Phone: (540) 230-2680
Prior to Sale Call: (540) 231-9159

Additional details available on Virginia Tech web site
https://www.apsc.vt.edu/facilities0/copenhaversheepcenter.html

Department of Animal & Poultry Sciences
Litton-Reaves Hall
Blacksburg, VA 24061

Dr. Scott Greiner
Faculty Coordinator
(540) 231-9159
sgreiner@vt.edu

Emily Williams
Copenhaver Sheep Center
(540) 231-6988
wemily93@vt.edu

Virginia Tech Suffolk & Dorset Flocks

The registered Suffolk and Dorset flocks are utilized heavily in the teaching, research and outreach missions of the Department of Animal & Poultry Sciences at Virginia Tech. The flocks has been selected for sheep that excel in the traits that have made the breeds popular, while working in forage-based production systems. For the Suffolk flock this includes growth and carcass merit, along with moderate mature size, maternal performance, longevity, structural correctness and eye appeal, genetic resistance to scrapie, and spider-free genotype are also important criteria. The Dorsets are maintained as primarily a fall-lambing flock, with emphasis on early growth and carcass, maternal ability, and moderate mature size. Extensive performance records, as well as selection technologies such as EPDs and DNA genotypes, are used in the selection decisions for both flocks. A complete flock health program is provided in cooperation with the VA-MD Regional College of Veterinary Medicine.

Performance Data

Codon 171 Genotype: Genotype associated with genetic resistance to scrapie. Presence of at least one *R* is associated with scrapie resistance.

LAMBPLAN Across Flock EBVs- Both flocks are enrolled in the National Sheep Improvement Program, which provides Estimated Breeding Values (EBVs) generated through LAMBPLAN in Australia. EBVs provide estimates of the genetic value of an animal as a parent (EBVs are similar to EPDs- an EPD is half the value of the EBV). Specifically, half the difference in EBVs between two individuals predict differences in performance between their future offspring when each is mated to animals of the same genetic merit. All known information on a particular animal is used to calculate its EBV, including performance data (weights, lambing records, carcass ultrasound) 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). EBVs are reported for the following traits:

> **Weaning Wt. EBV (WWT)**: predicts genetic merit for weaning growth potential (measured in kg). A ram with a +2.0 WW 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 WW EBV (ram transmits half the difference of the EBV difference to progeny)
>
> **Post-weaning Wt. EBV (PWWT)**: Provides indication of post-weaning growth potential, and reflects differences in progeny weight at 120 days of age (expressed in kg).
>
> **Fat Depth EBV (PFAT)**: EBV predicts genetic merit for fat thickness at 12-13th rib at constant live weight (expressed in mm). EBV derived from ultrasound scan data.
>
> **Loin Muscle Depth EBV (PEMD)**: EBV reflects genetic merit for loin muscle depth (mm) at constant live weight. Larger EBVs indicate more muscularity. EBV is derived from ultrasound scan data.
>
> **Fecal Egg Count EBV (PFEC)**: EBV predicts genetic merit for parasite resistance based on worm egg counts. Animals with low FEC EBVs are expected to have greater parasite resistance. EBV is expressed as percentage.
>
> **Maternal 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)
>
> **Maternal Milk 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.
>
> **Carcass Plus EBV**: Terminal sire index EBV developed for Australian markets, and includes combination of post-weaning weight, loin muscle depth, and fat thickness. Reasonable assessment for terminal sires in the U.S.

Sale Information

Sale Guarantees: All rams and ewes sell as guaranteed breeders if properly managed. Breeding soundness exams (including semen evaluation) conducted on rams prior to sale. Ewe lambs sell guaranteed open.

Delivery: We can hold rams and ewes to be picked up or delivered at a later date following the sale. Visit with us for more details. We will do our best to assist with transportation as well.

Absentee Bidding: We would be happy to work with you in the event you cannot make the sale, please contact us. Internet bidding will be available through www.LivestockBuyer.com

Detailed information on sires, photos of sale sheep, and additional information available on the web at
http://www.apsc.vt.edu/facilities/sheep/index.html

Virginia Tech Sheep Center 17th Annual Production Sale- Saturday, September 1, 2018   10 AM EST

preliminary sale listing

	Lamb ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	BWT	WWT	PWWT	PFAT	PEMD	WFEC	PFEC	NLB	NLW	MWWT	SRC	Carcass+
DORSET RAMS																			
VA Ram Test Sale	X019	Maple Hollow 15125	S017	Heisdorffer 1263	11/12/2017	S	QR	0.4	3.3	6.3	-1.8	-0.8				-0.020	-0.2	107	128
VA Ram Test Sale	X027	Maple Hollow 15125	P027	Huntrods 5887	11/17/2017	TW	RR	0.5	2.7	4.5	-2.0	-0.5			0.014	0.033	0.7	111	125
VA Ram Test Sale	X028	VA Tech P026	P091	Huntrods 5887	11/18/2017	TW	QR	0.1	1.1	3.0	-3.1	1.6	-16	-21	-0.004	0.029	0.5	112	143
VA Ram Test Sale	X032	VA Tech P026	P108	Huntrods 5887	11/24/2017	TW	RR	0.0	0.8	2.7	-2.2	0.8	-3	-3	-0.047	-0.007	0.4	107	129
VA Ram Test Sale	X036	Maple Hollow 15125	T011	Huntrods 5887	11/27/2017	S	QR	0.1	0.5	1.0	-2.2	1.4			0.006	0.013	0.0	106	130
VA Ram Test Sale	X067	Heisdorffer 6017	P034	Huntrods 5887	2/5/2018	TW	QR	0.6	3.0	5.2	-2.5	-0.5			0.006	0.021		110	130
VT Prod. Sale	X001	VA Tech P026	S072	Heisdorffer 3083	10/25/2017	TW	QR	0.3	1.5	3.5	-3.3	0.5	-23	-31	-0.060	-0.011	0.3	108	135
VT Prod. Sale	X006	VA Tech P026	V010	Heisdorffer 1263	10/26/2017	S	QR	0.3	2.1	3.9	-2.2	0.5	-27	-35	-0.086	-0.017	0.2	108	133
VT Prod. Sale	X016	Maple Hollow 15125	T006	Heisdorffer 3083	11/10/2017	TW	QR	0.4	2.0	3.6	-2.4	0.1						108	128
VT Prod. Sale	X029	VA Tech P026	P091	Huntrods 5887	11/18/2017	TW	QR	0.2	2.0	5.0	-2.7	0.0	-16	-21	-0.004	0.029	0.5	112	133
VT Prod. Sale	X038	Heisdorffer 6017	T103	Heisdorffer 1263	1/24/2018	S	QR	0.0	0.6	0.7	1.2	-0.7						100	91
VT Prod. Sale	X042	Heisdorffer 1263	W033	VA Tech P026	1/25/2018	S	QR	0.3	2.5	4.9	-1.3	-0.3	-34	-44	-0.107	-0.031	0.2	107	124
VT Prod. Sale	X082	VA Tech P026	S045	Heisdorffer 1263	2/16/2018	S	QR	0.4	3.2	6.3	-2.7	0.0	-26	-34	-0.094	-0.024	0.2	111	141
VT Prod. Sale	X086	Heisdorffer 1263	P040	Huntrods 5887	2/19/2018	S	RR	0.0	2.3	5.6	-1.8	0.8	-9	-12	-0.106	-0.026	-0.3	109	141
SUFFOLK RAMS																			
VA Ram Test Sale	X255	Kimm 16061	P264	VA Tech N221	2/24/2018	S	RR	-0.1	1.0	1.0	0.7	0.8	11	16	-0.046	-0.002	1.1	105	112
VT Prod. Sale	W278	Kimm 16061	P221	MSU 8164	2/25/2017	TR	QR+	0.0	2.1	4.3	-0.9	0.3		16	0.047	0.054	0.2	112	127
VT Prod. Sale	W293	MGR 3007	S213	MGR 9094	2/27/2017	TW	QR+	-0.3	1.8	2.6	-0.3	2.1	2	3	-0.028	0.028	-0.3	111	138
VT Prod. Sale	W298	MGR 3007	T220	Bunker Hill 2896	3/1/2017	S	QR+	-0.4	1.0	2.5	0.0	1.6	7	9	-0.009	0.020	-0.1	109	129
VT Prod. Sale	W311	Suffangus 328	T255	MGR 3007	3/3/2017	TW	QR+	0.0	1.6	2.1	-0.2	1.1	-15	-20	0.035	0.050	-0.3	110	124
VT Prod. Sale	W316	Kimm 16061	T313	MGR 3007	3/5/2017	S	QR+	-0.1	1.3	2.4	-0.4	1.0	40	57		-0.008		106	125
VT Prod. Sale	W332	MGR 3007	S327	MacCauley 2407	3/17/2017	TR	QR+	0.0	2.3	3.8	-0.6	0.9	1	2	0.047	0.039	-0.1	111	131
VT Prod. Sale	X201	Kimm 16061	T263	MGR 3007	2/5/2018	TW	RR	-0.3	1.3	3.8	-0.6	1.1	11	15				109	131
VT Prod. Sale	X202	Kimm 16061	T263	MGR 3007	2/5/2018	TW	RR	-0.5	1.1	3.7	-0.5	1.7	11	15				110	137
VT Prod. Sale	X203	Kimm 16061	V298	MGR 3007	2/7/2018	TW	QR+	-0.2	1.1	2.3	-0.2	0.9	16	22				108	121
VT Prod. Sale	X204	Kimm 16061	V298	MGR 3007	2/7/2018	TW	QR+	-0.4	0.7	2.2	0.1	1.2	16	22				109	123
VT Prod. Sale	X208	Kimm 16061	M247	KRM Suffolks 5211	2/7/2018	TW	QR+	-0.3	1.0	2.7	0.3	0.7		12	-0.057	-0.025	0.7	105	119
VT Prod. Sale	X217	MSU 3173	S213	MGR 9094	2/9/2018	TW	QR+	0.3	3.6	6.8	-3.2	1.5			-0.004	-0.004	0.1	115	163
VT Prod. Sale	X262	MSU 3173	V314	MGR 3007	2/24/2018	TW	QR+	0.1	3.0	6.6	-2.8	1.4			0.003	0.019	0.5	117	157

EBVs as of 7/15/18

also offering a select group of both Dorset and Suffolk ewe lambs in VT Production Sale

Virginia Ram Test Sale is August 25. Details and online bidding available at www.vasheepproducers.com