



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

Videos and additional details available on Virginia Tech web site
<https://www.apsc.vt.edu/facilities0/copenhaversheepcenter.html>

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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. In recent years, an effort has been made to document genetic differences in FEC through the use of NSIP. 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 <https://www.apsc.vt.edu/facilities0/copenhaversheepcenter.html>

19th Annual Virginia Tech Production Sale
Saturday, September 1, 2018 10:00 a.m. Alphin-Stuart Livestock Arena, Blacksburg, VA

updated EBVs 8/15/18

Lot No.	Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	Across-Flock EBVs (as of 8/15/18)									Scrotal Cir.	
								Birth Weight, kg	Weaning Weight, kg	Post-weaning Weight, kg	Fat Depth, mm	Loin Muscle Depth, mm	Fecal Egg Count, %	Maternal Lambs Weaned, %	Maternal Milk, kg	Carcass Plus		
DORSET RAMS																		
6	X001	VA Tech P026	S072	Heisdorffer 3083	10/25/2017	TW	QR	+0.3	+1.5	+3.5	-3.3	+0.5	-25	-1.1	+0.3	+135	31.5	
7	X029	VA Tech P026	P091	Huntrods 5887	11/18/2017	TW	QR	+0.2	+2.0	+5.0	-2.7	-0.0	-14	+2.9	+0.5	+133	34.0	
8	X006	VA Tech P026	V010	Heisdorffer 1263	10/26/2017	S	QR	+0.3	+2.1	+3.9	-2.2	+0.4	-30	-1.7	+0.2	+133	31.5	
9	X016	Maple Hollow 15125	T006	Heisdorffer 3083	11/10/2017	TW	QR	+0.4	+2.0	+3.6	-2.4	+0.1				+128	32.0	
17	X042	Heisdorffer 1263	W033	VA Tech P026	1/25/2018	S	QR	+0.3	+2.5	+4.9	-1.3	-0.4	-53	-3.1	+0.2	+124	33.0	
18	X082	VA Tech P026	S045	Heisdorffer 1263	2/16/2018	S	QR	+0.4	+3.2	+6.4	-2.7	-0.0	-10	-2.4	+0.2	+141	33.0	
19	X086	Heisdorffer 1263	P040	Huntrods 5887	2/19/2018	S	RR	-0.0	+2.3	+5.6	-1.8	+0.8	-7	-2.6	-0.3	+141	32.5	
20	X038	Heisdorffer 6017	T103	Heisdorffer 1263	1/24/2018	S	QR	-0.0	+0.6	+0.7	+1.2	-0.7	-29			+91	28.0	
U.S Dorset Breed Avg.								+0.1	+2.1	+4.7	+0.0	+0.0	+0	+2.3	+0.0	+129		
SUFFOLK RAMS																		
1	W332	MGR 3007	S327	MacCauley 2407	3/17/2017	TR	QR	+0.0	+2.7	+4.5	-0.8	+0.8	-6	+4.1	-0.1	+134	36.0	
2	W298	MGR 3007	T220	Bunker Hill 2896	3/1/2017	S	RR	-0.3	+1.5	+3.2	-0.2	+1.5	+1	+2.1	-0.1	+132	36.5	
3	X202	Kimm 16061	T263	MGR 3007	2/5/2018	TW	RR	-0.5	+1.4	+4.2	-0.7	+1.7	-59			+140	31.0	
4	X203	Kimm 16061	V298	MGR 3007	2/7/2018	TW	RR	-0.2	+1.4	+2.8	-0.4	+0.8	-58			+124	32.0	
5	X217	MSU 3173	S213	MGR 9094	2/9/2018	TW	RR	+0.3	+3.7	+7.1	-3.3	+1.5	+37	-0.4	+0.1	+164	31.0	
10	W316	Kimm 16061	T313	MGR 3007	3/5/2017	S	RR	-0.1	+1.6	+3.0	-0.6	+1.0	+17	-0.7		+128	32.5	
11	W293	MGR 3007	S213	MGR 9094	2/27/2017	TW	RR	-0.2	+2.2	+3.3	-0.5	+2.0	-1	+2.9	-0.3	+141	34.0	
12	X204	Kimm 16061	V298	MGR 3007	2/7/2018	TW	RR	-0.3	+1.0	+2.7	-0.1	+1.2	-31			+126	31.5	
13	X201	Kimm 16061	T263	MGR 3007	2/5/2018	TW	RR	-0.3	+1.6	+4.3	-0.8	+1.0	-53			+133	33.0	
14	X208	Kimm 16061	M247	KRM Suffolks 5211	2/7/2018	TW	QR	-0.3	+1.2	+3.0	+0.2	+0.6	-11	-2.4	+0.7	+120	29.5	
15	W311	Suffangus 328	T255	MGR 3007	3/3/2017	TW	RR	+0.0	+1.9	+2.6	-0.3	+1.0	-14	+5.1	-0.3	+126	36.0	
16	W278	Kimm 16061	P221	MSU 8164	2/25/2017	TR	RR	+0.1	+2.3	+4.6	-1.0	+0.3	-10	+5.4	+0.2	+128	35.0	
scratch	X262	MSU 3173	V314	MGR 3007	2/24/2018	TW	RR	+0.1	+3.2	+7.1	-3.0	+1.3	+53	+2.0	+0.5	+160		
U.S Suffolk Breed Avg.								+0.1	+1.5	+2.8	-1.3	+0.3	+0	+0.0	+0.0	+125		

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								Birth Weight, kg	Weaning Weight, kg	Post-weaning Weight, kg	Fat Depth, mm	Loin Muscle Depth, mm	Fecal Egg Count, %	Maternal Lambs Weaned, %	Maternal Milk, kg	Carcass Plus	
DORSET EWE LAMBS																	
1A	X039	Maple Hollow 15125	R037	MSU 101	1/24/2018	TR	RR	+0.2	+2.0	+3.2	+0.1	-0.9		+1.2	+0.5	+106	
1B	X051	Maple Hollow 15125	W007	VA Tech P026	1/28/2018	TW	RR	+0.2	+2.1	+4.9	-2.8	+0.5	-13			+139	
1C	X075	VA Tech P026	S068	Huntrods 5887	2/8/2018	TR	QR	+0.4	+2.5	+5.6	-3.1	-0.4	+14	+0.1	+0.2	+134	
1D	X080	Maple Hollow 15125	W059	VA Tech S036	2/11/2018	S	RR	+0.2	+1.7	+4.1	-2.3	+0.3	+12			+131	
4A	X053	Heisdorffer 6017	P072	MSU 101	1/30/2018	S	RR	+0.1	+1.1	+2.6	+0.4	-1.3	-17	+0.3		+95	
4B	X065	Heisdorffer 6017	W073	VA Tech S036	2/5/2018	TW	QR	-0.1	+0.4	+2.0	-0.8	-0.0	+50			+111	
4C	X073	Heisdorffer 6017	W048	VA Tech P026	2/7/2018	S	QR	+0.1	-0.2	-1.1	-0.5	+0.7	-30			+106	
4D	X084	Heisdorffer 6017	W054	Huntrods 5887	2/18/2018	TW	RR	-0.1	-0.3	-0.2	+1.2	-0.7	-28	+2.1		+86	
4E	X085	Heisdorffer 6017	W054	Huntrods 5887	2/18/2018	TW	QR	-0.1	-0.5	-0.3	+1.7	-1.3	-26	+2.1		+75	
scratch	X043																
scratch	X054																
U.S Dorset Breed Avg.								+0.1	+2.1	+4.7	+0.0	+0.0	+0	+2.3	+0.0	+129	
SUFFOLK EWE LAMBS																	
2A	X209	Kimm 16061	P204	Kimm 10131	2/8/2018	S	QR+	-0.3	+0.3	+0.8	+0.3	+0.8	-40	-1.1	+1.1	+112	
2B	X248	Kimm 16061	T313	MGR 3007	2/22/2018	TW	QR+	+0.0	+2.0	+3.1	-1.2	+1.3	+17	-0.7		+136	
2C	X257	Kimm 16061	N224	MGR 8018	2/24/2018	TW	QR+	-0.2	+0.7	+0.4	+0.8	+1.0	+27	+2.4	+0.0	+111	
3A	X212	MSU 3173	S228	Suffangus 328	2/8/2018	TW	QR+	+0.3	+2.4	+4.8	-2.3	+0.3	+25	+4.5	-0.0	+136	
3B	X240	MSU 3173	T258	MGR 3007	2/18/2018	TW	QR+	+0.3	+3.6	+6.8	-3.1	+1.1	+4	+1.5	+0.2	+157	
3C	X251	MSU 3173	R302	MacCauley 2407	2/23/2018	TW	QR+	+0.1	+1.8	+3.0	-1.3	+1.0	+43	+1.8	+0.4	+132	
3D	X264	MSU 3173	T275	VA Tech S277	2/26/2018	TW	QR+	+0.8	+4.6	+7.8	-2.6	-0.8	+12	+2.3	+0.5	+139	
5A	X207	Kimm 16061	M247	KRM Suffolks 5211	2/7/2018	TW	QR+	-0.3	+0.2	+0.2	+1.3	+0.5	-11	-2.4	+0.7	+102	
5B	X228	Kimm 16061	V266	MGR 3007	2/16/2018	TW	QR+	-0.5	+0.9	+2.8	+0.5	+0.9	+1	+0.9		+120	
5C	X245	Kimm 16061	S297	MacCauley 2407	2/21/2018	TW	QR+	-0.4	-0.7	-2.9	+1.6	+1.9	-25	+0.6		+103	
U.S Suffolk Breed Avg.								+0.1	+1.5	+2.8	-1.3	+0.3	+0	+0.0	+0.0	+125	