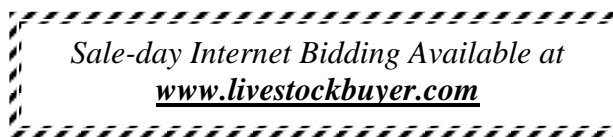




20th Annual VIRGINIA TECH SHEEP CENTER PRODUCTION SALE

Saturday, August 31, 2019 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>

20th Annual Virginia Tech Production Sale
Saturday, August 31, 2019 10:00 a.m. Alphin-Stuart Livestock Arena, Blacksburg, VA

Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	Across-Flock EBVs (as of 8/1/19*)								
							BWT Birth Weight, kg	WWT Weaning Weight, kg	PWWT Post-weaning Weight, kg	PFAT Fat Depth, mm	PEMD Loin Muscle Depth, mm	PFEC* Fecal Egg Count, %	NLW Maternal Lambs Weaned, %	MWWT Maternal Milk, kg	Carcass+ Carcass Plus
DORSET RAMS															
Z007	VA Tech P026	S104	Heisdorffer 1263	10/28/2018	TW	QR	+0.3	+2.1	+4.8	-2.5	+0.2	-5	-2.1	+0.1	+135
Z008	Maple Hollow 15125	T018	Huntrods 5887	10/28/2018	S	RR	+0.6	+3.8	+7.8	-3.6	-0.5	+9	+0.8	+0.6	+145
Z014	VA Tech P026	V018	Huntrods 5887	11/10/2018	S	RR	+0.2	+1.9	+4.9	-3.2	+0.6	-42		+0.1	+142
Z015	Heisdorffer 1263	T006	Heisdorffer 3083	11/10/2018	TW	QR	-0.0	+0.1	+0.2	-1.0	+1.1	-19	-0.2	-0.7	+118
Z041	Maple Hollow 15125	X003	Huntrods 5887	1/21/2019	S	RR	+0.3	+3.1	+6.6	-4.1	+1.3	-4		+0.2	+162
Z043	Maple Hollow 15125	T022	Heisdorffer 1263	1/22/2019	TW	RR	+0.3	+3.5	+6.9	-2.4	+0.4		-1.2	+0.3	+146
Z052	Maple Hollow 15125	R043	Shiflett 15	1/26/2019	TR	RR	+0.1	+2.7	+5.9	-2.5	+1.0		+3.0	+0.9	+149
Z060	VA Tech P026	W025	Huntrods 5887	2/3/2019	TW	RR	+0.3	+1.7	+4.3	-2.0	-0.9	-12	+0.3	+0.5	+117
Z062	Heisdorffer 1263	P108	Huntrods 5887	2/4/2019	S	RR	+0.1	+1.5	+2.8	-1.1	+0.3	-2	-2.8	-0.3	+121
Z082	Maple Hollow 15125	T052	Heisdorffer 3083	2/15/2019	TW	RR	+0.4	+2.8	+5.9	-2.8	-0.2	-14		-0.1	+137
SUFFOLK RAMS															
X255	Kimm 16061	P264	VA Tech N221	2/24/2018	S	RR	-0.0	+1.3	+1.4	+0.4	+0.7	-4	-0.7	+1.3	+114
X275	VA Tech N221	W255	Kimm 16061	3/6/2018	S	QR	-0.1	+1.7	+2.2	-0.6	+2.2	+7	+0.8	-0.4	+139
X282	MGR 3007	N315	MGR 8018	3/15/2018	S	RR	-0.5	+0.9	+2.4	-0.4	+2.1	+24	+7.6	-0.5	+136
X293	MGR 3007	W232	Kimm 16061	3/23/2018	S	RR	+0.0	+3.9	+8.8	-2.1	+0.3	-22	+4.5	+0.1	+151
Z208	Kimm 16061	V281	MGR 3007	2/1/2019	TW	RR	-0.2	+1.3	+3.1	-0.0	+0.6	-10	-3.1	+0.9	+121
Z212	MGR 3007	V212	Suffangus 328	2/1/2019	S	RR	-0.3	+1.4	+4.1	-0.7	+1.1	-14	+2.9	+0.1	+133
Z218	MGR 8336	N218	Kimm 10131	2/4/2019	S	QR	+0.1	+1.0	+2.1	-0.7	-0.0		+0.9	-0.1	+112
Z219	MGR 3007	W258	Kimm 16061	2/4/2019	S	RR	-0.3	+1.5	+3.6	-0.9	+1.7	-1	+4.6	+0.3	+139
Z226	MGR 8336	W284	MGR 3007	2/5/2019	TW	RR	+0.0	+1.3	+2.3	+0.2	-0.2				+109
Z232	MGR 3007	S228	Suffangus 328	2/6/2019	TR	RR	-0.2	+0.5	+1.3	-0.3	+1.1	-6	+10.5	-0.5	+119
Z234	MGR 3007	W331	Suffangus 328	2/6/2019	TW	RR	-0.5	+0.7	+2.3	+0.0	+1.7	+4	+7.1	-0.6	+129
Z239	MGR 8336	S311	VA Tech N221	2/8/2019	S	RR	+0.1	+1.5	+1.9	-0.5	+0.6		-2.3		+119
Z244	MGR 8336	W263	MGR 3007	2/10/2019	S	RR	+0.2	+1.2	+0.8	-0.1	+0.3		+0.4		+109
Z258	MSU 3173	P204	Kimm 10131	2/23/2019	S	RR	+0.3	+2.6	+5.1	-2.4	+0.4	+18	-0.4	+1.2	+139

*note EBVs will be updated 8/15/19 to include recent FEC data on spring lambs (update posted to website and available sale day)

20th Annual Virginia Tech Production Sale
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Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	Across-Flock EBVs (as of 8/1/19*)								
							BWT	WWT	PWWT	PFAT	PEMD	PFEC*	NLW	MWWT	Carcass+
							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															
Z035	VA Tech X018	W075	VA Tech S036	1/15/2019	S	pending	+0.3	+2.0	+4.4	-3.2	+0.8		-2.1	-0.1	+143
Z037	VA Tech P026	R100	Huntrods 5887	1/18/2019	QD	pending	+0.2	+1.5	+3.9	-3.4	+1.1	-6	+3.4	+0.5	+143
Z039	VA Tech P026	R100	Huntrods 5887	1/18/2019	QD	pending	+0.1	+1.2	+3.5	-2.4	+0.7	-6	+3.4	+0.5	+133
Z047	VA Tech X018	V043	Heisdorffer 3083	1/24/2019	TR	pending	+0.5	+1.6	+2.2	-2.0	+0.1		-1.5	+0.2	+121
Z056	VA Tech P026	T062	VA Tech S036	2/1/2019	TW	pending	+0.4	+2.8	+6.4	-2.4	-0.9	+21	-1.6	+0.3	+129
Z061	VA Tech P026	W025	Huntrods 5887	2/3/2019	TW	pending	+0.2	+1.0	+2.6	-1.6	-0.4	-12	+0.3	+0.5	+113
Z066	VA Tech P026	P091	Huntrods 5887	2/6/2019	TW	pending	+0.6	+2.7	+5.9	-4.3	-0.2	-13	+3.1	+0.4	+142
Z069	Maple Hollow 15125	V056	VA Tech S036	2/7/2019	TW	pending	+0.0	+2.4	+6.3	-2.9	+1.0		+1.6		+151
Z085	Heisdorffer 1263	R037	MSU 101	2/25/2019	TR	pending	+0.5	+3.2	+5.1	-1.1	-0.6	-17	-3.4	-0.0	+124
Z090	VA Tech P026	T054	Heisdorffer 3083	3/7/2019	TW	pending	+0.1	+1.1	+2.9	-0.9	-0.5	-26	-2.9	-0.1	+111
SUFFOLK EWE LAMBS															
Z204	Kimm 16061	V314	MGR 3007	1/27/2019	TW	QR+	-0.4	+0.7	+1.9	-0.4	+1.5	-28	+2.9	+0.8	+127
Z213	MGR 3007	W318	Kimm 16061	2/2/2019	S	QR+	-0.5	+0.2	+0.0	-0.7	+3.2	-19	+4.1	+0.4	+140
Z220	MGR 3007	P255	Kimm 10131	2/4/2019	TW	QR+	-0.6	+0.0	+0.9	+0.7	+1.5	-12	+6.0	+0.4	+117
Z221	MGR 3007	P255	Kimm 10131	2/4/2019	TW	QR+	-0.6	+0.1	+1.0	+0.9	+1.2	-12	+6.0	+0.4	+113
Z242	Kimm 16061	W310	Suffangus 328	2/9/2019	S	QR+	-0.5	+0.1	+0.4	+0.8	+1.7	-17			+117
Z255	Kimm 16061	V208	MGR 3007	2/16/2019	TR	QR+	-0.4	+0.2	+0.1	+0.8	+1.4	-27	+2.3	+0.6	+114
Z267	MGR 3007	X211	MSU 3173	3/18/2019	TW	QR+	+0.0	+2.3	+4.7	-2.0	+1.2	+2	+8.3	-0.1	+143

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