



# VirginiaTech

College of Agriculture  
and Life Sciences

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## 18th Annual VIRGINIA TECH SHEEP CENTER PRODUCTION SALE

Saturday, September 2, 2017 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](http://www.livestockbuyer.com)



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

Additional details available on Virginia Tech web site  
<http://ext.vt.edu/agriculture/sheep.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 Suffolk flock has been selected for sheep that excel in the traits that have made the breed popular- growth and carcass composition. In addition to these fundamental traits, moderate mature size, maternal performance, longevity, structural correctness and eye appeal, genetic resistance to scrapie, and spider-free genotype are also important in our balanced-trait approach. The Dorsets are maintained as primarily a fall-lambing flock, with emphasis on maternal ability, growth, 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 12-13<sup>th</sup> 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](http://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>

**17th Annual Virginia Tech Production Sale**  
**Saturday, September 2, 2017 10:00 a.m. Alphin-Stuart Livestock Arena, Blacksburg, VA**

Lot No.	Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	Across-Flock EBVs									Scrotal Cir.
								WWT	PWWT	PFAT	PEMD	PFEC	NLW	MWWT	Carcass+		
								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		
<b>SUFFOLK RAMS</b>																	
1	W210	MGR 3007	T282	Kimm 13073	2/15/2017	S	RR	+0.1	+1.7	+0.1	+1.6	+4	+1.6	-0.1	+124	33.0	
2	W208	MGR 3007	S228	Suffangus 328	2/14/2017	TR	RR	+1.4	+3.1	-0.5	+1.2	+18	+6.0	-0.6	+130	33.5	
3	W297	Kimm 16061	M215	KRM Suffolks 5211	2/28/2017	S	RR	+2.9	+4.4	-1.3	+0.2	+10	-4.5		+129	34.5	
4	W211	Kimm 16061	N315	MGR 8018	2/15/2017	TW	RR	+0.9	+2.3	-0.2	+1.3	+37	+3.5		+126	33.5	
5	W257	MGR 3007	R209	VA Tech N221	2/22/2017	S	QR	+0.6	+0.6	+0.8	+2.5	-5	+2.2	-0.2	+129	34.0	
6	W245	MGR 3007	S286	Suffangus 328	2/19/2017	TW	QR	+1.3	+3.2	+0.6	+0.4	-14	+3.1	-0.5	+117	36.0	
12	W264	VA Tech S277	T219	MGR 3007	2/23/2017	TW	RR	+0.7	+0.5	+0.3	+1.2	+43	+1.3	+0.2	+115	38.0	
13	W248	MGR 3007	T256	Bunker Hill 2896	2/20/2017	TW	RR	+0.9	+2.5	-0.5	+1.7	+15	+1.0	-0.6	+132	31.0	
14	W213	MGR 3007	S301	MacCauley 2407	2/15/2017	TW	RR	+1.5	+3.8	-0.4	+0.5	+18	+2.3	-0.1	+125	32.5	
15	W240	Kimm 16061	S251	MGR 9094	2/18/2017	TW	RR	+1.0	+1.7	-0.5	+1.4	-10			+126	29.5	
20	W242	Kimm 16061	T214	Kimm 13073	2/18/2017	TW	RR	+1.0	+1.9	+0.3	+0.7	+1			+116	32.0	
21	W220	MGR 3007	T275	VA Tech S277	2/16/2017	TW	RR	+0.6	-0.1	+0.6	+1.7	-28	+3.4	-0.3	+118	32.5	
22	W235	MGR 3007	S224	Kimm 10131	2/17/2017	TW	RR	+0.2	+1.8	+0.1	+2.1	-20	+3.6	+0.1	+130	34.0	
23	W265	VA Tech S277	T219	MGR 3007	2/23/2017	TW	QR	+0.9	+0.8	+0.3	+1.1	+30	+1.3	+0.2	+116	34.0	
<b>DORSET RAMS</b>																	
7	W030	Heisdorffer 1263	R055	Huntrods 5887	11/1/2016	TW	RR	+3.0	+5.8	-3.0	+0.6	-9	-1.3	-0.9	+146	33.0	
8	W034	VA Tech P026	S002	K Bar K 099154	11/3/2016	TW	RR	+2.6	+5.0	-2.4	+0.7	-45	-1.0	+1.2	+141	32.5	
9	W058	VA Tech S036	S014	Heisdorffer 1263	11/9/2016	TW	QR	+1.1	+3.5	-3.1	+2.4	+44	-0.2	+0.2	+154	31.0	
10	W008	Heisdorffer 1263	S119	K Bar K 099154	10/20/2016	TW	QR	+3.8	+6.4	-2.3	+0.3	-28	-4.0	+0.2	+144	34.0	
11	W089	Heisdorffer 1263	V016	Huntrods 5887	2/5/2017	TW	QR	+3.0	+6.4	-2.4	+0.5	-15	-2.5	-0.3	+145	32.0	
16	W001	Heisdorffer 1263	T032	Huntrods 5887	10/17/2016	S	QR	+3.4	+5.8	-2.1	-0.2	-44	-2.9	-0.3	+134	32.0	
17	W102	Heisdorffer 1263	V007	VA Tech S036	2/17/2017	S	QR	+2.7	+5.4	-1.8	-0.1	+57	-2.2	-0.3	+131	33.5	
18	W035	Heisdorffer 1263	R043	Shiflett 15	11/4/2016	TW	QR	+3.2	+5.8	-0.4	-1.3	+17	-1.3	-0.4	+114	34.0	
19	W083	VA Tech P026	R046	Shiflett 15	2/2/2017	TW	RR	+1.9	+4.0	-1.4	+0.1	-0	-0.9	+0.1	+125	33.0	
scratch	W275	Kimm 16061	T243	MGR 3007	2/25/2017	TW	RR	+0.7	+1.3	-0.3	+1.1	+41			+121		
scratch	W273	Kimm 16061	T258	MGR 3007	2/25/2017	TW	RR	-0.0	+1.3	-0.2	+2.4	+26			+133		

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								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		
<b>DORSET EWE LAMBS</b>																	
1A	W020	VA Tech P026	P034	Huntrods 5887	10/25/2016	TW	QR	+3.6	+7.2	-2.8	-1.1	-9	+0.7	+0.6	+133		
1B	W026	Huntrods 5887	K101	Hunter 63286	10/27/2016	TW	QQ	+1.8	+3.5	-3.1	+0.6	-19	+1.4	+0.6	+136		
1C	W044	Heisdorffer 1263	S027	Huntrods 5887	11/5/2016	TW	QQ	+2.2	+4.6	-1.2	+0.0	-25	-1.6	-0.9	+126		
1D	W051	Huntrods 5887	K017	Hunter 63286	11/7/2016	S	QR	+2.3	+3.9	-2.5	+0.1	+3	+2.7	+0.4	+130		
1E	W065	VA Tech S036	P066	MSU 101	11/11/2016	TW	QR	+0.4	+3.0	-1.7	+2.0	+38	+2.8	-0.0	+141		
3A	W090	Huntrods 5887	N009	K Bar K 099154	2/5/2017	TR	RR	+1.3	+3.2	-2.3	+0.4	-23	+2.3	+0.1	+128		
3B	W091	Huntrods 5887	N009	K Bar K 099154	2/5/2017	TR	RR	+2.1	+5.0	-3.4	+0.7	-27	+2.3	+0.1	+144		
3C	W101	Huntrods 5887	V043	Heisdorffer 3083	2/12/2017	S	QR	+1.8	+3.2	-3.7	-0.0	-37	+1.3	+0.1	+131		
5A	W077	VA Tech P026	S072	Heisdorffer 3083	1/27/2017	S	RR	+2.8	+5.2	-2.7	-0.1	-30	-2.0	+0.7	+135		
5B	W094	VA Tech P026	T033	Heisdorffer 1263	2/6/2017	TW	QR	+1.3	+2.3	+0.1	+0.4	-9	-1.7	+0.4	+115		
5C	W100	VA Tech P026	V018	Huntrods 5887	2/11/2017	S	QR	+3.3	+6.3	-3.4	+0.5	-50	-0.1	+0.4	+149		
<b>SUFFOLK EWE LAMBS</b>																	
2A	W246	Kimm 16061	R273	MacCauley 2407	2/20/2017	TW	RR	+2.5	+4.3	-0.9	-0.2	-5			+121		
2B	W268	Kimm 16061	P264	VA Tech N221	2/23/2017	S	RR	+1.7	+2.6	-1.1	+1.4	-2	+0.8		+133		
2C	W287	Kimm 16061	T234	VA Tech S277	2/27/2017	TW	QR	+1.2	+1.8	-0.2	+0.6	-19			+117		
2D	W288	Kimm 16061	T234	VA Tech S277	2/27/2017	TW	RR	+1.7	+2.9	-0.4	+0.5	-19			+122		
4A	W230	MGR 3007	S283	Kimm 13073	2/17/2017	TW	QR	+0.6	+1.8	-0.1	+1.8	-3	+1.3	-0.2	+129		
4B	W244	MGR 3007	S286	Suffangus 328	2/19/2017	TW	RR	-0.0	+0.8	+1.7	+0.8	-14	+3.1	-0.5	+105		
4C	W251	MGR 3007	R318	MacCauley 2407	2/21/2017	TW	RR	+0.2	-0.2	+0.9	+1.8	-21	+0.0	+0.2	+116		
4D	W322	MGR 3007	P343	MSU 8164	3/8/2017	TW	RR	+1.1	+2.8	-0.5	+1.3	+2	+3.3	-0.6	+129		
4E	W340	MGR 3007	V203	VA Tech N221	4/1/2017	S	RR	-0.0	+0.3	+0.9	+2.1	+13	+3.5	-0.3	+121		
6A	W204	VA Tech S277	R302	MacCauley 2407	2/14/2017	TW	RR	+0.4	-1.0	+1.7	+0.0	+33	+1.8	+0.5	+91		
6B	W304	Suffangus 328	R293	MGR 9094	3/1/2017	TW	RR	-0.2	-1.2	+1.1	+1.8	-5	+0.8	-0.2	+111		
6C	W305	Suffangus 328	P336	Kimm 10131	3/1/2017	TW	RR	+0.5	+1.4	-0.3	+0.9	+4	+1.4	-0.2	+118		
6D	W308	VA Tech S277	S323	MacCauley 2407	3/2/2017	TW	QR	+1.6	+1.2	-0.1	-0.1	-6	-1.8	+0.8	+108		
6E	W327	Suffangus 328	P276	Kimm 10131	3/13/2017	TW	QR	+0.2	+0.5	-0.2	+1.2	-24	+1.1	+0.3	+116		
scratch	W300	VA Tech S277	R289	VA Tech N221	3/1/2017	TR	QR	+1.8	+1.0	-0.3	+1.6	+13	+4.0	+0.0	+127		