

UPDATED 8/28/23



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**24<sup>th</sup> Annual  
VIRGINIA TECH SHEEP CENTER  
PRODUCTION SALE  
Tuesday, September 5, 2023**

Our 2023 Annual Sale will be held online at  
[PLAuctions.live](https://PLAuctions.live)

**Sale closes at 8:00 PM EST on Tuesday, September 5, 2022**



*Selling Dorset & Suffolk ram lambs,  
and select group of ewe lambs-  
backed by 30+ years of NSIP*



Sale Contact Phone: (540) 230-2680

Prior to Sale Call: (540) 231-9159

Sheep available for viewing on campus- contact us to arrange.  
Sheep can be picked up following the sale, and we will work with buyers on  
transportation.

Details, videos, and updates available on Virginia Tech web site  
<https://sas.vt.edu/facilities/copenhaver-sheep-center.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 School of Animal Sciences at Virginia Tech. The flocks have 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 parasite resistance (FEC) through the use of NSIP. A complete flock health program is provided in cooperation with the VA-MD 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)

**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:** 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 anywhere in the U.S.

**Absentee Bidding:** We would be happy to work with you in the event you cannot participate in the sale, please contact us.

Detailed information on program, photos of sale sheep, and updates available on the web at <https://sas.vt.edu/facilities/copenhaver-sheep-center.html>

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Lot No.	Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	EBVs as of 8/15/23 *								
								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
<b>DORSET RAMS</b>																
1	D030	VA Tech Z041	X049	Heisdorffer 6017	11/3/2022	S	RR	+0.0	+1.6	+3.5	-1.7	+0.9	-26	-0.033	-0.1	+133
2	D045	VA Tech Z041	Z011	Heisdorffer 1263	11/8/2022	TW	QR	-0.3	+0.8	+1.9	-0.8	+1.8	-44	-0.023	+0.1	+133
3	D055	Maple Hollow 15125	T059	Heisdorffer 1263	11/14/2022	TW	RR	+0.4	+4.8	+10.0	-2.3	-0.8	-12	-0.087	+0.1	+147
4	D062	Maple Hollow 15125	B047	VA Tech Z041	1/21/2023	S	RR	-0.0	+3.1	+7.2	-2.6	+1.2	+3	-0.070	+0.2	+157
5	D083	VA Tech Z010	A107	Maple Hollow 15125	2/4/2023	S	QR	-0.0	+3.0	+7.5	-3.3	+1.3	-31	-0.019	+0.1	+161
6	D097	-----scratch-----														
<b>U.S Dorset Breed Avg.</b>								<b>+0.1</b>	<b>+1.9</b>	<b>+4.2</b>	<b>-1.6</b>	<b>+0.4</b>				<b>+125</b>
<b>SUFFOLK RAMS</b>																
7	D201	Kimm 15198-21018	A231	MGR 8336	2/1/2023	TW	RR	-0.3	+0.0	-0.4	-0.7	+2.4	+15			+129
8	D205	Seasons Bounty 1022	V281	MGR 3007	2/1/2023	TW	RR	-0.2	+1.2	+3.2	-1.4	+1.4	-31	+0.078	-0.1	+136
9	D215	Seasons Bounty 1022	X215	Kimm 16061	2/2/2023	TW	RR	-0.2	+1.3	+3.3	-0.6	+1.0	-20	+0.049	-0.1	+128
10	D219	Seasons Bounty 0030	X298	MGR 3007	2/3/2023	TW	RR	-0.2	+1.8	+4.0	-0.6	+0.9	-14	+0.022	-0.2	+130
11	D222	Seasons Bounty 0030	Z217	MGR 3007	2/5/2023	TW	RR	-0.2	+2.1	+4.9	-0.0	+0.2	-28	+0.022	-0.5	+124
12	D233	Seasons Bounty 0030	V210	MGR 3007	2/6/2023	TR	RR	+0.1	+2.7	+4.9	-0.7	+0.4	-18	+0.029	-0.5	+131
13	D239	Kimm 15198-21018	X252	Kimm 16061	2/8/2023	TW	QR	-0.1	+0.6	+0.9	-1.1	+1.7	+0	+0.026	+0.3	+128
14	D240	Kimm 15198-21018	X252	Kimm 16061	2/8/2023	TW	RR	-0.4	+0.4	+1.5	-0.4	+1.9	-22	+0.026	+0.3	+130
15	D250	Seasons Bounty 1022	A251	MGR 3007	2/10/2023	TW	RR	-0.4	+0.3	+1.3	-0.5	+2.1	-5	+0.021	+0.1	+132
<b>U.S Suffolk Breed Avg.</b>								<b>+0.3</b>	<b>+2.5</b>	<b>+4.7</b>	<b>-2.0</b>	<b>+0.4</b>				<b>+135</b>

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Lot No.	Flock ID	Sire	Dam	Dam's Sire	Birth Date	Birth Type	Codon 171	EBVs as of 8/15/23 *								
								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
<b>DORSET EWE LAMBS</b>																
16	D001	VA Tech Z041	A156	VA Tech P026	10/19/2022	S	RR	-0.3	+1.2	+3.9	-1.3	+1.4	-47	-0.049	+0.2	+138
17	D002	VA Tech Z041	A158	VA Tech P026	10/19/2022	TW	RR	+0.1	+2.2	+4.6	-1.3	+0.1	-24	-0.050	+0.3	+128
18	D007	VA Tech Z010	B020	VA Tech P026	10/20/2022	S	RR	-0.0	+1.5	+4.5	-2.0	+0.3	+9	-0.017	+0.4	+131
19	D012	VA Tech Z010	A109	Maple Hollow 15125	10/21/2022	S	QR	-0.3	+1.0	+4.3	-2.3	+1.3	+11	-0.053	+0.1	+141
20	D020	Maple Hollow 15125	B039	VA Tech Z041	10/24/2022	S	QR	+0.1	+1.6	+2.7	-1.2	+0.7	-36	-0.086	+0.4	+126
21	D021	VA Tech Z010	Z025	VA Tech P026	10/25/2022	TW	RR	+0.2	+2.1	+5.4	-2.3	-0.1	-7	-0.023	+0.3	+132
22	D026	PRPD 2021	X021	VA Tech P026	10/29/2022	TW	QR	+0.5	+3.6	+6.6	-2.3	-0.3	+10	+0.010	+0.6	+137
23	D050	Maple Hollow 15125	Z033	Heisdorffer 1263	11/11/2022	TW	RR	-0.0	+2.0	+4.4	-1.3	+0.7	-22	-0.058	-0.2	+133
24	D051	Maple Hollow 15125	Z033	Heisdorffer 1263	11/11/2022	TW	RR	+0.0	+2.2	+4.9	-1.5	+0.5	-22	-0.058	-0.2	+135
25	D058	VA Tech Z041	X025	VA Tech P026	1/14/2023	S	RR	-0.2	+1.6	+4.6	-2.2	+1.6	-51	-0.049	-0.1	+147
26	D065	VA Tech Z010	B072	VA Tech Z041	1/23/2023	S	RR	-0.0	+3.0	+8.0	-3.5	+1.2	-20	-0.040	+0.2	+162
27	D066	VA Tech Z010	C025	VA Tech Z041	1/23/2023	TW	QR	-0.3	+1.2	+3.9	-1.0	+0.8	+20	-0.010	+0.5	+130
28	D067	VA Tech Z010	C025	VA Tech Z041	1/23/2023	TW	QR	-0.2	+2.2	+6.8	-2.6	+0.9	+4	-0.010	+0.5	+150
29	D072	PRPD 2021	Z024	VA Tech P026	1/26/2023	TW	RR	+0.5	+3.4	+6.4	-2.3	-0.3	+14	+0.000	+0.2	+136
30	D073	PRPD 2021	Z024	VA Tech P026	1/26/2023	TW	RR	+0.7	+5.0	+9.1	-3.3	-0.6	+13	+0.000	+0.2	+151
31	D079	VA Tech Z010	C007	VA Tech Z041	1/30/2023	S	RR	-0.1	+2.9	+9.0	-1.9	-1.1	-25	-0.047	+0.2	+134
32	D081	VA Tech Z010	B068	VA Tech Z041	2/2/2023	S	RR	-0.1	+1.9	+5.7	-2.7	+1.2	+25	-0.041	+0.2	+149
33	D090	-----scratch-----														
<b>U.S Dorset Breed Avg.</b>								<b>+0.1</b>	<b>+1.9</b>	<b>+4.2</b>	<b>-1.6</b>	<b>+0.4</b>				<b>+125</b>
<b>SUFFOLK EWE LAMBS</b>																
34	D207	Seasons Bounty 0030	A218	MGR 3007	2/2/2023	TW	RR	+0.0	+2.0	+3.9	-0.1	-0.0	-19	+0.031	-0.5	+118
35	D211	Seasons Bounty 1022	W237	MGR 3007	2/2/2023	TR	RR	-0.3	+0.6	+1.5	-0.9	+2.0	-18	+0.009	+0.5	+133
36	D224	Seasons Bounty 1022	X244	Kimm 16061	2/6/2023	TW	RR	-0.3	+1.1	+2.6	-0.7	+1.7	-38	+0.035	+0.1	+134
37	D231	Seasons Bounty 1022	A204	Kimm 16061	2/6/2023	TW	RR	-1.0	-0.8	-0.1	+2.2	+1.6	-12	+0.031		+107
38	D255	Seasons Bounty 1022	W284	MGR 3007	2/10/2023	TW	QR	-0.3	+0.8	+2.5	-0.4	+1.0	-17	+0.045	-0.1	+123
39	D270	Kimm 15198-21018	Z276	MGR 8336	2/20/2023	TW	RR	-0.1	+0.1	-0.6	-1.2	+2.5	+9	+0.003		+132
40	D275	Kimm 15198-21018	A246	MGR 8336	2/22/2023	TW	RR	-0.3	-0.4	-1.1	+0.1	+1.8	-13	+0.023		+116
<b>U.S Suffolk Breed Avg.</b>								<b>+0.3</b>	<b>+2.5</b>	<b>+4.7</b>	<b>-2.0</b>	<b>+0.4</b>				<b>+135</b>

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