

# 2016 State Fair of Virginia Lamb Carcass Evaluation

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This is the 18<sup>th</sup> year for the Lamb Carcass Contest held in conjunction with the state youth market lamb show. The following will describe the carcass evaluation and pricing procedures, along with determination of carcass premiums. A historical summary of the program is provided on the last page.

## **Hot Carcass Weight (HCW)**

Represents the weight of the carcass immediately following harvest. The desirable weight for lamb carcasses is dependent on the end use of the carcass. Specifically, lamb processors utilize and fabricate carcasses of different weights in various ways depending on demand by the end-user. Carcass weight is an important factor when lamb carcasses are priced, as USDA reports prices for lamb carcasses in weight increment categories. Generally, very light and very heavy carcasses receive a discount in price. Supply and demand changes throughout the year influence which carcass weights are most preferred.

## **Dressing Percentage (DP)**

Calculated by dividing carcass weight by live weight and multiplying by 100. Dressing percentage reflects the proportion of a live lamb's weight that results in carcass weight. Dressing percentage is influenced mostly by the amount of gut fill. Fat cover and muscling also influence dressing percentage. Typically, dressing percentages for shorn lambs range from 52-57%.

## **Fat Thickness (FT)**

Fat thickness is measured over the center of the ribeye muscle after the carcass has been ribbed (split) between the 12<sup>th</sup> and 13<sup>th</sup> ribs. This measurement may be adjusted (up or down) to reflect distribution of external fat over the entire carcass. The amount of fat thickness at the 12-13<sup>th</sup> rib is a strong indicator of the total amount of fat that is trimmed away when the carcass is fabricated into retail cuts. Carcasses with excessive amounts of fat are less desirable because of excess waste. Carcasses with more than 0.36 inches of fat thickness are commonly discounted in price. The industry also discriminates against carcasses that are very lean (less than 0.10 inches of fat thickness), due to increased dehydration and shrink during storage and transportation for these very lean carcasses. Fat thickness is also the determining factor in calculating lamb carcass yield grades. The goal is to produce carcasses that have at least 0.10 inches, but preferably not more than 0.30 inches of fat thickness. Within this range, carcasses meet the preferred minimum yet do not have an excess amount of waste.

## **Yield Grade (YG)**

Yield grade is calculated by the equation:  $YG = 0.4 + (10 \times \text{fat thickness})$ . Yield grades are used by the industry to categorize carcasses for their expected yield of boneless, closely trimmed retail cuts. Yield grades range from 1 to 5, with a yield grade 1 having the highest expected yield and 5 the lowest. Under normal circumstances, carcasses are yield graded a 1, 2, 3, 4, or 5. However, yield grades have been reported to the nearest 0.1 for this carcass contest. Since yield grades estimate the percentage of the carcass that is saleable retail cuts, they are an important aspect of carcass pricing. Yield grade 4 and 5 carcasses are undesirable because of their excess fat, and therefore lower yield of boneless, trimmed retail cuts.

## **Body Wall Thickness (BW)**

Body wall thickness (inches) is measured over the rib beyond the ribeye, five inches from the midline of the carcass. Differences in body wall thickness between carcasses are due primarily to fat. Carcasses that are similar over the ribeye for fat thickness (FT), may vary considerably in body wall thickness. The body wall thickness measurement is used in the equation to determine percentage boneless, closely trimmed retail cuts (% BCTRC).

### **Loin Muscle Area (LMA)**

Loin muscle area (ribeye area) is used as an indicator of total amount of muscle mass in the carcass. Loin muscle measurements are taken by using a grid to determine the cross-sectional area (in square inches) of the loin muscle at the 12<sup>th</sup>-13<sup>th</sup> rib. The loin muscle is a primary muscle in the carcass, and therefore is fairly reflective of total carcass muscling. The ribeye is also the major muscle in the loin, which is the most valuable wholesale cut in the carcass. LMA size is related to carcass weight- heavier carcasses should have larger LMAs.

### **Leg Score**

Leg score is a visual estimate of the amount of muscle in the leg of the carcass. Leg scores are expressed numerically with 15 (Prime+) being the heaviest muscled and 10 (Choice-) being relatively light muscled. The scores are assigned by evaluating the muscle expression, shape, and fullness to the leg relative to carcass weight. Leg scores are not used to calculate percentage of retail cuts (%BCTRC), but are important in determining quality grades (QG).

### **Percentage Boneless Closely-Trimmed Retail Cuts (%BCTRC)**

The percentage of boneless, closely trimmed retail cuts is very meaningful as it represents the predicted proportion of the carcass that is saleable retail product. The formula to predict %BCTRC uses carcass weight, fat thickness, body wall thickness, and ribeye area as follows:

$$\%BCTRC = 49.936 - (.0848 \times HCW) - (4.376 \times FT) - (3.530 \times BW) + (2.456 \times REA)$$

This percentage varies greatly, with very high yielding carcass being greater than 50% BCTRC and low yielding carcasses less than 45% BCTRC. The two measurements of waste fat, fat thickness (FT) and body wall thickness (BW), have the largest impact on %BCTRC. Lambs with more waste fat will have lower %BCTRC. Muscling also influences the value. Larger ribeyes relative to carcass weight will increase %BCTRC. Although yield grades estimate percentage of boneless retail cuts, %BCTRC is more precise because it includes body wall thickness and also accounts for differences in muscle between carcasses.

### **Quality Grade (OG)**

Quality grades are an estimation of the palatability characteristics (tenderness, juiciness, and flavor) of the carcass. Final quality grade is determined by three factors: maturity, flank streaking, and conformation. In young lambs, there is normally very little variation in maturity (age). Flank streakings are the fat deposits on the flank muscles. Since lamb carcasses are normally not ribbed, flank streaking is used to estimate marbling. Marbling is the small specs of fat found within the ribeye muscle, and is related to flavor and juiciness. The final component is conformation (muscling), which is primarily determined by leg score. These factors are combined to arrive at a final quality grade. Most lamb carcasses quality grade Choice and Prime. Prime is the highest quality grade, followed by Choice. Each quality grade is further subdivided into thirds: Prime+, Prime<sup>o</sup>, Prime-, Choice+, Choice<sup>o</sup>, and Choice-, from highest to lowest in quality, respectively. Carcasses that do not qualify for Choice-quality grade, are commonly referred to as “no rolls” (NR) in the industry. These carcasses are usually from lightweight, underfinished lambs. Due to their inferior quality, no roll carcasses are frequently discounted in price.

### **Carcass Pricing**

Market conditions reflected differential carcass pricing based on carcass weight: \$3.10 per pound for carcasses 75 lb. and less, \$3.05 for carcasses weighing 75-85 pounds, and \$2.90 for carcasses over 85 pounds. The total value of the carcass is calculated by multiplying carcass price/lb. by hot carcass weight. The equivalent live price/lb. is determined by dividing total carcass value by live weight. Differences in live value reflect differences in dressing percentage. A \$0.50 per head deduction will be made for each lamb for the state lamb checkoff. This checkoff money is used for predator control, lamb promotion, and sheep research. The Virginia Sheep Industry Board allocates these funds. All lambs sold in Virginia are subject to this checkoff. There is also a national checkoff assessed at a rate of \$0.70 per 100 pounds of live weight.

### **Carcass Placings**

Lambs were placed into five categories (Gold, Purple, Blue, Red, and Pink). Carcasses failing to meet one or more of the following standards were placed in the Pink group:

Minimum fat thickness of 0.12 in.

Maximum fat thickness of 0.35 in. (maximum Yield Grade of 3.9)

Minimum LMA for carcass weight using formula:  $1.4 + (0.02 \times \text{HCW})$

60 lb. HCW minimum LMA = 2.6

70 lb. HCW minimum LMA = 2.8

80 lb. HCW minimum LMA = 3.0

Minimum Quality Grade of Choice-

Minimum carcass weight of 45.0 pounds

Carcasses meeting all of the above standards were ranked using %BCTRC and live ADG as follows:

<b>Category</b>	<b>Description</b>	<b>Criteria</b>	<b>Premium</b>
Gold	Lambs with both outstanding carcass merit and growth	$\geq 50.0$ %BCTRC & $\geq 0.45$ ADG	\$50
Purple	Lambs with superior carcass merit and desirable growth	$\geq 50.0$ %BCTRC with ADG < Gold standard or 49.0-49.9 %BCTRC with $\geq 0.38$ ADG	\$30
Blue	Lambs with desirable carcass merit	49.0-49.5 %BCTRC with < 0.38 ADG; and all remaining carcasses with $\geq 47.5$ %BCTRC or YG 1 or 2, and with $\geq 0.20$ ADG	\$20
Red	Lambs meeting carcass standards but have less desirable combination of leanness and LMA	All remaining carcasses meeting minimum standards	\$15
Pink	Lambs which are over-finished or under-finished, and/or have small LMA relative to their weight	Carcasses failing to meet one or more of the standards listed above	\$5

The premium categories reward lambs that excel in both carcass merit and growth. The ADG value of 0.38 was chosen as a base since it was the average performance of all the market lambs exhibited in the live show. Within a premium category, carcasses are listed by %BCTRC. Traits shown in bold on the results sheet indicate the carcass does not meet the standard for that trait. Lambs not exhibited in the live show were not eligible for carcass premiums. The State Fair and the Virginia Sheep Industry Board provided the carcass premium monies.

### **Contest Summary 1999-2016**

Since 1999, a total of 3045 lambs have been evaluated through the Lamb Carcass Contest held in conjunction with Virginia's state youth market lamb show. The following table summarizes the carcass information over this period.

Over the last 18 years, live weights and carcass weights of lambs have gotten substantially heavier. Associated with this weight increase has been a corresponding increase in loin muscle area and fatness. During the last 5 years (2011-2015), there has been an increase in the percentage of heavy lambs with heavy carcasses (> 85 pounds), as well as an increased proportion of overfinished, Yield Grade 4 lambs.

In 2016, live weights and carcass weights are similar to the last five years. The proportion of overfinished, YG4 carcasses was high. Compared to earlier years of the contest there is a strong trend for an increase in the proportion of YG3 and higher carcasses (lower percentage of the carcasses are YG1 & YG2 compared to a few years ago). In 2016, carcasses were lighter muscled on average compared to the last five years (more carcass < minimum LMA standard). Genetics, feeding, and management programs all play an important role in carcass outcome, and therefore close attention to these factors will impact carcass quality.

**VIRGINIA LAMB CARCASS CONTEST SUMMARY 1999-2016**

	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	5 year avg. (2011-2015)	18 year avg. (1999-2016)
<b>Carcass Measurements:</b>								
Number of Carcasses	<b>117</b>	134	141	131	178	191	<b>775</b>	<b>3045</b>
Live Wt., lb.	<b>129.7</b>	136.6	131.1	130.6	131.4	126.4	<b>130.8</b>	<b>124.7</b>
ADG, lb./day	<b>0.39</b>	0.41	0.42	0.43	0.40	0.39	<b>0.4</b>	<b>0.38</b>
Carcass Wt., lb.	<b>74.8</b>	78.8	75.3	73.6	74.7	71.6	<b>74.6</b>	<b>70.2</b>
Dressing %	<b>57.5</b>	57.6	57.3	56.2	56.7	56.6	<b>56.9</b>	<b>56.1</b>
Adj. Fat Thickness, in.	<b>0.28</b>	0.28	0.28	0.28	0.27	0.26	<b>0.3</b>	<b>0.23</b>
Yield Grade	<b>3.2</b>	3.2	3.2	3.2	3.1	3.0	<b>3.1</b>	<b>2.7</b>
Loin muscle area, sq. in.	<b>3.30</b>	3.46	3.34	3.15	3.27	3.23	<b>3.29</b>	<b>3.16</b>
Leg Score (12 = Ch+, 13 = Pr-)	<b>12.3</b>	12.8	12.4	12.3	12.4	12.5	<b>12.5</b>	<b>12.5</b>
% BCTRC	<b>47.3</b>	47.4	47.3	47.2	47.4	47.7	<b>47.4</b>	<b>48.0</b>
Quality Grade (11 = Ch°, 12 = Ch+)	<b>11.6</b>	11.9	11.8	11.8	11.7	11.6	<b>11.7</b>	<b>11.5</b>
Carcass Price, \$/cwt.	<b>\$304.23</b>	\$320.00	\$315.00	\$255.00	\$190.00	\$360.00	<b>\$288.10</b>	<b>\$198.73</b>
Live Value, \$/cwt.	<b>\$174.92</b>	\$184.35	\$180.61	\$143.41	\$107.78	\$203.69	<b>\$163.93</b>	<b>\$112.03</b>
<b>Carcass Contest Specifications:</b>								
ADG standard for premium placings	<b>0.38</b>	0.42	0.42	0.42	0.40	0.40	<b>0.41</b>	<b>0.37</b>
< 0.10 in. Fat Thickness	<b>1 (0.9%)</b>	1.5%	1.4%	1.5%	2.8%	0.0%	<b>1.4%</b>	<b>1.6%</b>
Yield Grade ≥ 4 (> 0.35 in. fat)	<b>26 (22.2%)</b>	17.9%	18.4%	14.5%	16.9%	20.4%	<b>17.8%</b>	<b>9.3%</b>
< minimum Loin Muscle Area	<b>11 (9.4%)</b>	1.5%	6.4%	14.5%	9.6%	4.7%	<b>7.2%</b>	<b>11.9%</b>
< Ch- Quality Grade (No Roll)	<b>0 (0.0%)</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
Carcass weight < 45.0 lb.	<b>0 (0.0%)</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
<b>Carcass Distributions:</b>								
Gold Premium Category	<b>0 (0.0%)</b>	0.0%	0.0%	1.5%	1.1%	4.2%	<b>1.5%</b>	<b>1.6%</b>
Purple Premium Category	<b>9 (7.7%)</b>	4.5%	3.5%	6.1%	9.6%	14.1%	<b>8.1%</b>	<b>14.8%</b>
Blue Premium Category	<b>48 (41.0%)</b>	52.2%	48.2%	39.7%	36.0%	35.6%	<b>41.5%</b>	<b>34.1%</b>
Red Premium Category	<b>26 (22.2%)</b>	22.4%	24.1%	25.2%	25.8%	23.0%	<b>24.1%</b>	<b>28.0%</b>
Pink Premium Category	<b>34 (29.1%)</b>	20.9%	24.1%	27.5%	27.5%	23.0%	<b>24.6%</b>	<b>21.4%</b>
<b>Carcass Distributions:</b>								
Yield Grade 1	<b>9 (7.7%)</b>	6.0%	5.7%	6.9%	11.8%	15.2%	<b>9.7%</b>	<b>21.7%</b>
Yield Grade 2	<b>43 (36.8%)</b>	38.1%	35.5%	36.6%	34.3%	34.6%	<b>35.6%</b>	<b>43.2%</b>
Yield Grade 3	<b>39 (33.3%)</b>	38.1%	40.4%	42.0%	37.1%	29.8%	<b>36.9%</b>	<b>25.8%</b>
Yield Grade ≥ 4	<b>26 (22.2%)</b>	17.9%	18.4%	14.5%	16.9%	20.4%	<b>17.8%</b>	<b>9.3%</b>
<b>Carcass Distributions:</b>								
Prime Quality Grade	<b>6 (5.1%)</b>	12.7%	1.4%	4.6%	4.5%	2.1%	<b>4.8%</b>	<b>2.3%</b>
Choice Quality Grade	<b>111 (94.9%)</b>	87.3%	98.6%	95.4%	95.5%	97.9%	<b>95.2%</b>	<b>97.7%</b>
No Roll Quality Grade	<b>0 (0.0%)</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.1%</b>
<b>Carcass Distributions:</b>								
HCW < 45 lb.	<b>0 (0.0%)</b>	0.0%	0.0%	0.0%	0.0%	0.0%	<b>0.0%</b>	<b>0.2%</b>
HCW 45-54 lb.	<b>5 (4.3%)</b>	3.0%	3.5%	3.1%	7.9%	7.3%	<b>5.3%</b>	<b>9.1%</b>
HCW 55-64 lb.	<b>21 (17.9%)</b>	7.5%	12.8%	20.6%	9.6%	17.3%	<b>13.5%</b>	<b>22.8%</b>
HCW 65-74 lb.	<b>35 (29.9%)</b>	16.4%	24.1%	27.5%	30.3%	30.4%	<b>26.3%</b>	<b>32.2%</b>
HCW 75-84 lb.	<b>28 (23.9%)</b>	43.3%	40.4%	32.8%	32.0%	35.6%	<b>36.5%</b>	<b>26.2%</b>
HCW > 85 lb.	<b>28 (23.9%)</b>	29.9%	19.1%	16.0%	20.2%	9.4%	<b>18.3%</b>	<b>9.6%</b>

**2016 State Fair of Virginia Lamb Carcass Contest**

Exhibitor	County	VSF ID	Live Weight	Live ADG	Live Class	Live Placing	Carcass Wt.	Dress. %	Adj. FT	Yield Grade	Body Wall	LMA	Leg Score	Quality Grade	% BCTRC	Carcass Price/lb.	Carcass Value \$/hd	Equivalent Live Price/lb.	
<b>Purple</b>																			
Roney, Tyller	Botetourt	77483	103	0.29	BF 2	7	59	57.3	0.15	1.9	0.55	3.45	12	Choice <sup>o</sup>	50.8	\$3.10	\$182.90	\$1.78	
Mitchell, Taylor	Essex	06015	118	0.23	BF 5	10	65	55.1	0.12	1.6	0.50	3.45	12	Choice-	50.6	\$3.10	\$201.50	\$1.71	
Carter, Alexandra	Augusta	06355	121	0.20	NC 1	6	66	54.5	0.13	1.7	0.50	3.30	12	Choice <sup>o</sup>	50.1	\$3.10	\$204.60	\$1.69	
Hass, Hannah	Tazewell	23143	100	0.47	BF 1	8	52	52.0	0.15	1.9	0.55	2.85	11	Choice <sup>o</sup>	49.9	\$3.10	\$161.20	\$1.61	
Shields, Rebecca	Pittsylvania	22529	133	0.54	NC 2	7	74	55.6	0.17	2.1	0.65	3.65	12	Choice <sup>o</sup>	49.6	\$3.10	\$229.40	\$1.72	
Perfater, Courtney	Montgomery	05942	122	0.55	BF 5	5	68	55.7	0.23	2.7	0.75	3.65	13	Choice+	49.5	\$3.10	\$210.80	\$1.73	
Durheim, Caleb	Stafford	22657	106	0.38	BF 2	6	60	56.6	0.17	2.1	0.65	3.10	12	Choice <sup>o</sup>	49.4	\$3.10	\$186.00	\$1.75	
Gibson, Tyler	Louisa	06364	94	0.65	BF 1	7	46	48.9	0.13	1.7	0.50	2.30	11	Choice-	49.4	\$3.10	\$142.60	\$1.52	
Saville, Sidnie	Montgomery	05793	117	0.57	BF 4	3	66	56.4	0.18	2.2	0.70	3.30	12	Choice <sup>o</sup>	49.2	\$3.10	\$204.60	\$1.75	
<b>9 Purple Carcasses Average</b>			<b>113</b>	<b>0.43</b>			<b>61.8</b>	<b>54.7</b>	<b>0.16</b>	<b>2.0</b>	<b>0.59</b>	<b>3.23</b>	<b>11.9</b>		<b>49.8</b>	<b>\$3.10</b>	<b>\$191.51</b>	<b>\$1.70</b>	
<b>Blue</b>																			
Salvador, Abby	Clarke	77583	97	0.32	BF 1	4	52	53.6	0.13	1.7	0.50	2.70	10	Choice-	49.8	\$3.10	\$161.20	\$1.66	
Bostic, Jenna	Craig	05748	109	0.37	BF 3	4	59	54.1	0.18	2.2	0.65	3.20	12	Choice <sup>o</sup>	49.7	\$3.10	\$182.90	\$1.68	
May, Hunter	Rockingham	77342	106	0.27	BF 2	---	62	58.5	0.17	2.1	0.65	3.20	11	Choice <sup>o</sup>	49.5	\$3.10	\$192.20	\$1.81	
Pearson, Hannah	Essex	06016	120	0.11	BF 5	9	67	55.8	0.15	1.9	0.60	3.25	12	Choice <sup>o</sup>	49.5	\$3.10	\$207.70	\$1.73	
Mitchell, Taylor	Essex	06018	104	0.10	BF 2	10	61	58.7	0.13	1.7	0.50	2.85	11	Choice <sup>o</sup>	49.4	\$3.10	\$189.10	\$1.82	
Redifer, Luke	Montgomery	05778	97	0.16	BF 1	1	58	59.8	0.17	2.1	0.65	3.00	12	Choice <sup>o</sup>	49.3	\$3.10	\$179.80	\$1.85	
Shields, Rebecca	Pittsylvania	22707	129	0.30	BF 7	9	68	52.7	0.17	2.1	0.65	3.25	12	Choice <sup>o</sup>	49.1	\$3.10	\$210.80	\$1.63	
Mitchell, Taylor	Essex	06019	108	0.16	BF 3	9	62	57.4	0.20	2.4	0.75	3.20	12	Choice <sup>o</sup>	49.0	\$3.10	\$192.20	\$1.78	
Durheim, Abigail	Stafford	22665	103	0.33	BF 2	3	60	58.3	0.19	2.3	0.75	3.10	12	Choice <sup>o</sup>	49.0	\$3.10	\$186.00	\$1.81	
Saville, Sidnie	Montgomery	05792	123	0.27	BF 6	3	70	56.9	0.18	2.2	0.60	3.20	12	Choice <sup>o</sup>	49.0	\$3.10	\$217.00	\$1.76	
Deplazes, Claire	Craig	05735	106	0.53	BF 2	2	60	56.6	0.21	2.5	0.75	3.10	11	Choice <sup>o</sup>	48.9	\$3.10	\$186.00	\$1.75	
Perfater, Meghan	Montgomery	05944	142	0.45	NC 2		81	57.0	0.20	2.4	0.75	3.80	13	Choice+	48.9	\$3.05	\$247.05	\$1.74	
Amirault, Katie	Highland	06349	113	0.27	BF 4														
Lohr, Thomas	Rockingham	77563	104	0.34	WF 1	1	56	53.8	0.19	2.3	0.70	2.80	11	Choice <sup>o</sup>	48.8	\$3.10	\$173.60	\$1.67	
Wood, Jacob	Page	77584	105	0.34	BF 2	5	62	59.0	0.20	2.4	0.70	3.00	12	Choice <sup>o</sup>	48.7	\$3.10	\$192.20	\$1.83	
Durheim, Abigail	Stafford	22663	134	0.42	BF 9	7	81	60.4	0.20	2.4	0.80	3.75	13	Choice <sup>o</sup>	48.6	\$3.05	\$247.05	\$1.84	
Obaugh, Rhonda	Highland	76963	123	0.38	BF 6														
Strong, Bridgette	Chesapeake	22371	131	0.58	BF 8	8	75	57.3	0.28	3.2	0.90	3.80	12	Choice+	48.5	\$3.10	\$232.50	\$1.77	
Redifer, Luke	Montgomery	05776	118	0.50	NC 1	1	69	58.5	0.29	3.3	0.95	3.65	12	Choice+	48.4	\$3.10	\$213.90	\$1.81	
Deplazes, Claire	Craig	05740	133	0.67	BF 9	9	70	52.6	0.24	2.8	0.90	3.50	13	Choice+	48.4	\$3.10	\$217.00	\$1.63	
Newman, Elizabeth	Cumberland	22630	111	0.42	NC 1	2	66	59.5	0.19	2.3	0.75	3.05	12	Choice <sup>o</sup>	48.4	\$3.10	\$204.60	\$1.84	
Perfater, Meghan	Montgomery	05945	139	0.53	SF 2														
Powell, Madison	Augusta	77785	153	0.33	BF 13	3	89	58.2	0.27	3.1	0.95	4.25	13	Choice+	48.3	\$2.90	\$258.10	\$1.69	
Hadacek, Bailey	Augusta	77724	106	0.34	BF 2	1	59	55.7	0.24	2.8	0.85	3.00	13	Choice+	48.3	\$3.10	\$182.90	\$1.73	
Minx, Abigail	Stafford	22668	140	0.26	BF 11	9	80	57.1	0.25	2.9	0.85	3.70	13	Choice+	48.1	\$3.05	\$244.00	\$1.74	
Caldwell, Kelsie	Rockbridge	06323	135	0.51	BF 9	1	74	54.8	0.21	2.5	0.75	3.25	13	Choice+	48.1	\$3.10	\$229.40	\$1.70	
Beach, Shaina	Rockingham	76909	119	0.34	BF 5	3	66	55.5	0.27	3.1	0.85	3.20	13	Choice+	48.0	\$3.10	\$204.60	\$1.72	
Weadon, James	Stafford	22638	163	0.44	BF 15	5	99	60.7	0.30	3.4	0.95	4.50	13	Choice+	47.9	\$2.90	\$287.10	\$1.76	
Beach, Kaylyn	Rockingham	76913	120	0.41	BF 5	2	61	50.8	0.24	2.8	0.90	3.00	12	Choice <sup>o</sup>	47.9	\$3.10	\$189.10	\$1.58	
Roney, Tyller	Botetourt	77482	114	0.28	BF 4	8	69	60.5	0.25	2.9	0.80	3.15	12	Choice <sup>o</sup>	47.9	\$3.10	\$213.90	\$1.88	
Redifer, Zane	Montgomery	05785	112	0.36	BF 3														
Seal, Emory	Augusta	06361	129	0.44	WF 2	2	72	55.8	0.25	2.9	0.90	3.35	12	Choice+	47.8	\$3.10	\$223.20	\$1.73	
Franchebois, Macy	Chesapeake	22389	107	0.58	BF 3	5	61	57.0	0.33	3.7	1.00	3.25	11	Choice <sup>o</sup>	47.8	\$3.10	\$189.10	\$1.77	
Redifer, Zane	Montgomery	05781	144	0.30	BF 11	3	87	60.4	0.29	3.3	0.95	4.00	13	Choice+	47.8	\$2.90	\$252.30	\$1.75	

2016 State Fair of Virginia Lamb Carcass Contest

Exhibitor	County	VSF ID	Live Weight	Live ADG	Live Class	Live Placing	Carcass Wt.	Dress. %	Adj. FT	Yield Grade	Body Wall	LMA	Leg Score	Quality Grade	% BCTRC	Carcass Price/lb.	Carcass Value \$/hd	Equivalent Live Price/lb.	
<b>Blue (cont.)</b>																			
Durheim, Caleb	Stafford	22655	114	0.40	BF 4	5	63	55.3	0.24	2.8	0.90	3.00	11	Choice <sup>o</sup>	47.7	\$3.10	\$195.30	\$1.71	
Durheim, Abigail	Stafford	22662	95	0.43	BF 1	6	54	56.8	0.26	3.0	0.90	2.70	11	Choice <sup>o</sup>	47.7	\$3.10	\$167.40	\$1.76	
Childs, Braden	Clarke	76971	131	0.36	BF 8	7	73	55.7	0.24	2.8	0.75	3.10	12	Choice+	47.7	\$3.10	\$226.30	\$1.73	
Rasnick, Ashleigh	Tazewell	23165	112	0.47	BF 3	8	62	55.4	0.22	2.6	0.70	2.60	11	Choice <sup>o</sup>	47.6	\$3.10	\$192.20	\$1.72	
Greiner, Leah	Montgomery	05805	137	0.38	BF 10	5	82	59.9	0.34	3.8	1.05	4.00	13	Choice+	47.6	\$3.05	\$250.10	\$1.83	
Sorrells, Nathan	Augusta	77720	163	0.60	BF 15	3	94	57.7	0.27	3.1	0.85	4.00	13	Choice+	47.6	\$2.90	\$272.60	\$1.67	
Franchebois, Macy	Chesapeake	22390	126	0.32	BF 6	8	77	61.1	0.24	2.8	0.85	3.35	13	Choice <sup>o</sup>	47.6	\$3.05	\$234.85	\$1.86	
Sumner, Luke	Franklin	06390	110	0.27	NC 1	4	62	56.4	0.25	2.9	0.75	2.70	12	Choice <sup>o</sup>	47.6	\$3.10	\$192.20	\$1.75	
Wachter, Abbey	Chesapeake	22403	130	0.34	BF 8	9	73	56.2	0.25	2.9	0.75	3.00	12	Choice+	47.4	\$3.10	\$226.30	\$1.74	
Gibson, Tyler	Louisa	06365	136	0.66	BF 9	3	72	52.9	0.22	2.6	0.85	3.05	12	Choice+	47.4	\$3.10	\$223.20	\$1.64	
Campbell, Daniel	Nelson	22700	146	0.37	BF 12	6	84	57.5	0.20	2.4	0.80	3.35	13	Choice+	47.3	\$3.05	\$256.20	\$1.75	
Smith, Hannah	Augusta	77776	116	0.49	BF 4	4	61	52.6	0.23	2.7	0.85	2.65	12	Choice <sup>o</sup>	47.3	\$3.10	\$189.10	\$1.63	
Greiner, Kaylee	Montgomery	05812	132	0.39	BF 8	5	87	65.9	0.21	2.5	0.75	3.15	13	Choice+	46.7	\$2.90	\$252.30	\$1.91	
Lohr, William	Rockingham	77568	128	0.38	SD	4	71	55.5	0.23	2.7	0.90	2.80	12	Choice+	46.6	\$3.10	\$220.10	\$1.72	

<b>48 Blue Carcasses Average</b>			<b>122</b>	<b>0.38</b>			<b>70.0</b>	<b>57.1</b>	<b>0.23</b>	<b>2.7</b>	<b>0.79</b>	<b>3.27</b>	<b>12.1</b>		<b>48.3</b>	<b>\$3.07</b>	<b>\$214.38</b>	<b>\$1.75</b>
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<b>Red</b>																			
Redifer, Zane	Montgomery	05780	126	0.08	BF 6	5	77	61.1	0.24	2.8	0.85	3.70	13	Choice <sup>o</sup>	48.4	\$3.05	\$234.85	\$1.86	
Strong, Bridgette	Chesapeake	22372	128	0.43	BF 7	4	67	52.3	0.27	3.1	0.85	3.00	12	Choice <sup>o</sup>	47.4	\$3.10	\$207.70	\$1.62	
Deplazes, Claire	Craig	05739	137	0.68	BF 10	9	78	56.9	0.26	3.0	0.95	3.50	13	Choice <sup>o</sup>	47.4	\$3.05	\$237.90	\$1.74	
Beane, L. Morgan	Craig	05734	133	0.46	BF 9	---	77	57.9	0.28	3.2	0.90	3.40	12	Choice <sup>o</sup>	47.4	\$3.05	\$234.85	\$1.77	
Smith, Hannah	Augusta	77775	122	0.49	BF 5	7	65	53.3	0.28	3.2	1.00	3.10	12	Choice+	47.3	\$3.10	\$201.50	\$1.65	
Gobble, Ryan	Washington	22423	145	0.31	BF 12	4	84	57.9	0.33	3.7	0.90	3.70	13	Choice+	47.3	\$3.05	\$256.20	\$1.77	
Akenhead, Lauryl	Bedford	22703	137	0.28	BF 10	1	78	56.9	0.28	3.2	0.90	3.40	13	Choice+	47.3	\$3.05	\$237.90	\$1.74	
Brickhouse, Matthew	Chesapeake	22375	114	0.47	BF 4	9	64	56.1	0.28	3.2	1.00	3.05	11	Choice <sup>o</sup>	47.2	\$3.10	\$198.40	\$1.74	
Powell, Madison	Augusta	77786	162	0.17	BF 14	4	91	56.2	0.24	2.8	0.85	3.65	12	Choice+	47.1	\$2.90	\$263.90	\$1.63	
Sumner, Luke	Franklin	06389	121	0.30	BF 5	4	71	58.7	0.32	3.6	0.90	3.10	12	Choice+	47.0	\$3.10	\$220.10	\$1.82	
Hadacek, Sam	Augusta	77728	143	0.40	SF 2	4	78	54.5	0.32	3.6	1.05	3.55	12	Choice+	46.9	\$3.05	\$237.90	\$1.66	
Greiner, Kaylee	Montgomery	05813	128	0.05	BF 7	1	75	58.6	0.28	3.2	0.90	3.15	13	Choice+	46.9	\$3.10	\$232.50	\$1.82	
Gobble, Ryan	Washington	22419	132	0.39	NC 2	Res. Div. II Ch. Div. V	77	58.3	0.29	3.3	0.95	3.30	13	Choice+	46.9	\$3.05	\$234.85	\$1.78	
Whetzel, Kennedy	Shenandoah	06386	146	0.46	BF 12	Res. Grand Ch.	92	63.0	0.33	3.7	1.10	4.10	14	Choice+	46.9	\$2.90	\$266.80	\$1.83	
Mitchell, Camille	Chesapeake	22409	154	0.13	BF 13	2	90	58.4	0.30	3.4	0.95	3.75	13	Choice+	46.8	\$2.90	\$261.00	\$1.69	
Newman, Elizabeth	Cumberland	22628	132	0.40	BF 8	11	77	58.3	0.33	3.7	0.90	3.25	13	Choice+	46.8	\$3.05	\$234.85	\$1.78	
Redifer, Zane	Montgomery	05788	112	0.29	BF 3	2	68	60.7	0.30	3.4	1.00	3.00	12	Choice+	46.7	\$3.10	\$210.80	\$1.88	
Des-Rosiers, Marie Cle	Shenandoah	76915	138	0.51	BF 10	11	81	58.7	0.27	3.1	0.90	3.25	12	Choice <sup>o</sup>	46.7	\$3.05	\$247.05	\$1.79	
Perfater, Meghan	Montgomery	05943	139	0.38	BF 10	6	82	59.0	0.33	3.7	1.00	3.50	13	Choice+	46.6	\$3.05	\$250.10	\$1.80	
Powers, Emily	Augusta	06334	145	0.32	BF 12	5	79	54.5	0.34	3.8	1.05	3.45	13	Choice+	46.5	\$3.05	\$240.95	\$1.66	
Simmons, Kori	Augusta	77756	146	0.44	NC 2	Ch. Div. II 5th Overall	86	58.9	0.34	3.8	1.00	3.55	13	Choice+	46.3	\$2.90	\$249.40	\$1.71	
Madison, Courtney	Cumberland	22626	131	0.57	BF 8	10	80	61.1	0.29	3.3	0.95	3.15	13	Choice+	46.3	\$3.05	\$244.00	\$1.86	
Obaugh, Rhonda	Highland	76964	132	0.64	BF 8	4	72	54.5	0.34	3.8	1.05	3.10	12	Choice+	46.2	\$3.10	\$223.20	\$1.69	
Greiner, Kaylee	Montgomery	05811	133	0.35	SF 1	Res. Div. I	80	60.2	0.30	3.4	0.95	3.15	12	Choice+	46.2	\$3.05	\$244.00	\$1.83	
Hadacek, Sam	Augusta	77716	141	0.17	WF 2	4	78	55.3	0.29	3.3	1.00	3.05	12	Choice+	46.0	\$3.05	\$237.90	\$1.69	
Redifer, Luke	Montgomery	05774	137	0.46	BF 10	7	86	62.8	0.33	3.7	1.10	3.25	13	Choice+	45.3	\$2.90	\$249.40	\$1.82	

<b>26 Red Carcasses Average</b>			<b>135</b>	<b>0.37</b>			<b>78.2</b>	<b>57.9</b>	<b>0.30</b>	<b>3.4</b>	<b>0.96</b>	<b>3.35</b>	<b>12.5</b>		<b>46.8</b>	<b>\$3.03</b>	<b>\$236.85</b>	<b>\$1.76</b>
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2016 State Fair of Virginia Lamb Carcass Contest

Exhibitor	County	VSF ID	Live Weight	Live ADG	Live Class	Live Placing	Carcass Wt.	Dress. %	Adj. FT	Yield Grade	Body Wall	LMA	Leg Score	Quality Grade	% BCTRC	Carcass Price/lb.	Carcass Value \$/hd	Equivalent Live Price/lb.	
<b>Pink</b>																			
Libby, Austin	Louisa	22541	102	0.34	BF 2	11	53	52.0	<u>0.10</u>	1.4	0.40	2.65	11	Choice-	50.1	\$3.10	\$164.30	\$1.61	
Powers, Emily	Augusta	06335	158	0.57	BF 14	Res. Div. VI	94	59.5	<u>0.44</u>	<u>4.8</u>	1.25	5.00	14	Choice+	47.9	\$2.90	\$272.60	\$1.73	
Gray, Ben	Page	77587	134	0.54	BF 9	4	82	61.2	<u>0.38</u>	<u>4.2</u>	1.00	4.00	13	Choice+	47.6	\$3.05	\$250.10	\$1.87	
Beane, L. Morgan	Craig	05732	169	0.62	BF 15	1	95	56.2	<u>0.40</u>	<u>4.4</u>	1.30	4.80	13	Prime-	47.3	\$2.90	\$275.50	\$1.63	
Lohr, William	Rockingham	77552	114	0.55	BF 4	2	65	57.0	0.22	2.6	0.70	<u>2.50</u>	11	Choice <sup>o</sup>	47.1	\$3.10	\$201.50	\$1.77	
Sorrells, Nathan	Augusta	77721	152	0.52	BF 13	8	93	61.2	<u>0.46</u>	<u>5.0</u>	1.10	4.35	13	Choice+	46.8	\$2.90	\$269.70	\$1.77	
Blankenship, Hannah	Tazewell	23147	120	0.29	BF 5	1	70	58.3	<u>0.38</u>	<u>4.2</u>	1.15	3.35	12	Choice+	46.5	\$3.10	\$217.00	\$1.81	
Ellis, Madison	Page	77349	142	0.41	BF 11	8	83	58.5	<u>0.45</u>	<u>4.9</u>	1.00	3.65	12	Choice+	46.4	\$3.05	\$253.15	\$1.78	
Gobble, Ryan	Washington	22426	139	0.33	BF 10	4	79	56.8	0.26	3.0	0.85	<u>2.90</u>	12	Choice+	46.2	\$3.05	\$240.95	\$1.73	
Harris, Sarah	Botetourt	05796	138	0.48	BF 10	10	77	55.8	<u>0.36</u>	<u>4.0</u>	0.95	3.10	12	Choice+	46.1	\$3.05	\$234.85	\$1.70	
Lohr, Thomas	Rockingham	77561	102	0.12	WF 1	6	55	53.9	0.28	3.2	0.90	<u>2.05</u>	10	Choice <sup>o</sup>	45.9	\$3.10	\$170.50	\$1.67	
Simmons, Kori	Augusta	77753	154	0.54	BF 13	Ch. Div. VI	90	58.4	<u>0.39</u>	<u>4.3</u>	1.10	3.70	13	Choice+	45.8	\$2.90	\$261.00	\$1.69	
Wood, Jacob	Page	77585	127	0.46	BF 7	6	73	57.5	<u>0.36</u>	<u>4.0</u>	1.20	3.20	13	Choice+	45.8	\$3.10	\$226.30	\$1.78	
Rasnick, Ashleigh	Tazewell	23164	108	0.17	BF 3	10	64	59.3	0.35	3.9	0.95	<u>2.50</u>	12	Choice+	45.8	\$3.10	\$198.40	\$1.84	
French, Sarah-Jane	Cumberland	22712	132	0.37	BF 8	Grand Champ.	85	64.4	<u>0.37</u>	<u>4.1</u>	1.15	3.50	13	Choice <sup>o</sup>	45.6	\$3.05	\$259.25	\$1.96	
Rasnick, Ashleigh	Tazewell	23160	130	0.20	WF 2	6	71	54.6	0.26	3.0	0.90	<u>2.45</u>	11	Choice <sup>o</sup>	45.6	\$3.10	\$220.10	\$1.69	
Wachter, Emma	Chesapeake	22400	170	0.25	BF 15	7	104	61.2	<u>0.50</u>	<u>5.4</u>	1.40	4.70	14	Choice+	45.5	\$2.90	\$301.60	\$1.77	
Deplazes, Claire	Craig	05736	151	0.45	BF 13	4	86	57.0	<u>0.40</u>	<u>4.4</u>	1.20	3.60	13	Choice+	45.5	\$2.90	\$249.40	\$1.65	
Borer, Ryan	Botetourt	77710	121	0.58	SF 1	2	71	58.7	0.33	3.7	1.00	<u>2.65</u>	12	Choice+	45.4	\$3.10	\$220.10	\$1.82	
Hadacek, Bailey	Augusta	77723	163	0.48	BF 15	2	93	57.1	<u>0.42</u>	<u>4.6</u>	1.15	3.65	13	Prime-	45.1	\$2.90	\$269.70	\$1.65	
Powell, Madison	Augusta	77787	160	0.47	BF 14	3	97	60.6	<u>0.38</u>	<u>4.2</u>	1.10	3.55	13	Choice+	44.9	\$2.90	\$281.30	\$1.76	
Newman, Jordan	Cumberland	22669	149	0.24	BF 12	9	88	59.1	0.24	2.8	0.85	<u>2.60</u>	12	Choice+	44.8	\$2.90	\$255.20	\$1.71	
French, Sarah-Jane	Cumberland	22713	139	0.33	BF 10	2	87	62.6	<u>0.43</u>	<u>4.7</u>	1.10	3.25	13	Prime-	44.8	\$2.90	\$252.30	\$1.82	
Ross, Hunter	Chesapeake	22378	139	0.44	BF 10	8	86	61.9	<u>0.47</u>	<u>5.1</u>	1.15	3.35	13	Choice+	44.8	\$2.90	\$249.40	\$1.79	
Newman, Jordan	Cumberland	22622	153	0.45	BF 13	6	93	60.8	<u>0.40</u>	<u>4.4</u>	1.40	3.80	13	Choice+	44.7	\$2.90	\$269.70	\$1.76	
May, Hunter	Rockingham	06220	143	0.50	BF 11	Res. Div. V 3rd Overall	82	57.3	<u>0.41</u>	<u>4.5</u>	1.20	3.15	12	Choice+	44.7	\$3.05	\$250.10	\$1.75	
Craun, Rachel	Rockingham	06472	154	0.61	BF 13	7	92	59.7	<u>0.49</u>	<u>5.3</u>	1.35	3.85	13	Choice+	44.7	\$2.90	\$266.80	\$1.73	
Mitchell, Camille	Chesapeake	22410	158	0.47	BF 14	2	94	59.5	<u>0.46</u>	<u>5.0</u>	1.00	3.35	13	Choice+	44.6	\$2.90	\$272.60	\$1.73	
Newman, Jordan	Cumberland	22625	127	0.52	NC 1	5	74	58.3	<u>0.45</u>	<u>4.9</u>	1.15	<u>2.70</u>	11	Choice+	44.3	\$3.10	\$229.40	\$1.81	
Rasnick, Ashleigh	Tazewell	23161	127	0.33	BF 7	8	69	54.3	<u>0.45</u>	<u>4.9</u>	1.30	<u>2.70</u>	11	Choice+	44.2	\$3.10	\$213.90	\$1.68	
French, Sarah-Jane	Cumberland	22417	161	0.41	BF 14	---	98	60.9	<u>0.48</u>	<u>5.2</u>	1.20	3.55	13	Choice+	44.0	\$2.90	\$284.20	\$1.77	
Greiner, Leah	Montgomery	05803	111	0.17	SD	1	69	62.2	<u>0.41</u>	<u>4.5</u>	1.20	<u>2.40</u>	13	Prime-	43.9	\$3.10	\$213.90	\$1.93	
Whetzel, Kennedy	Shenandoah	22334	167	0.35	BF 15	4	94	56.3	<u>0.45</u>	<u>4.9</u>	1.20	<u>3.20</u>	13	Prime-	43.6	\$2.90	\$272.60	\$1.63	
Capozzella, Jacob	Louisa	77547	158	0.56	SF 2	5	96	60.8	<u>0.57</u>	<u>6.1</u>	1.50	3.70	13	Prime-	43.1	\$2.90	\$278.40	\$1.76	

<b>34 Pink Carcasses Average</b>			<b>140</b>	<b>0.42</b>			<b>82.4</b>	<b>58.6</b>	<b>0.39</b>	<b>4.3</b>	<b>1.10</b>	<b>3.34</b>	<b>12.4</b>		<b>45.6</b>	<b>\$2.99</b>	<b>\$245.46</b>	<b>\$1.75</b>
<b>134 Total Contest Carcasses Average</b>			<b>130</b>	<b>0.39</b>			<b>74.8</b>	<b>57.5</b>	<b>0.28</b>	<b>3.2</b>	<b>0.90</b>	<b>3.30</b>	<b>12.3</b>		<b>47.3</b>	<b>\$3.04</b>	<b>\$226.65</b>	<b>\$1.75</b>

**Additional Lambs**

Greiner, Kaylee	Montgomery	05815	125	0.55	NA	NA	67	53.6	<u>0.40</u>	<u>4.4</u>	1.05	3.15	12	Choice+	46.5	\$3.10	\$207.70	\$1.66
Hadacek, Bailey	Augusta	77726	144	0.29	ewe BF 9	8	84	58.3	<u>0.43</u>	<u>4.7</u>	1.20	3.50	13	Choice+	45.3	\$3.05	\$256.20	\$1.78
Hadacek, Sam	Augusta	77718	109	0.04	ewe WF 1	1	57	52.3	0.15	1.9	0.60	2.50	11	Choice <sup>o</sup>	48.5	\$3.10	\$176.70	\$1.62
Roney, Tyller	Botetourt	06397	122	0.51	ewe BF 4	8	75	61.5	0.22	2.6	0.75	3.80	12	Choice <sup>o</sup>	49.3	\$3.10	\$232.50	\$1.91
Seal, Emory	Augusta	06360	109	0.35	ewe SF 1	2	60	55.0	0.24	2.8	0.90	3.35	12	Choice+	48.8	\$3.10	\$186.00	\$1.71
Wachter, Abbey	Chesapeake	22402	136	0.38	ewe BF 7	9	69	50.7	0.24	2.8	0.85	<u>2.70</u>	12	Choice+	46.7	\$3.10	\$213.90	\$1.57
Wachter, Emma	Chesapeake	22401	111	0.27	ewe BF 2	6	61	55.0	0.22	2.6	0.70	2.60	11	Choice <sup>o</sup>	47.7	\$3.10	\$189.10	\$1.70
Wachter, Emma	Chesapeake	22399	120	0.36	ewe BF 3	8	67	55.8	0.23	2.7	0.75	2.90	12	Choice <sup>o</sup>	47.7	\$3.10	\$207.70	\$1.73