



2025 Shenandoah County Fair Lamb Carcass Ultrasound Contest



First Name	Last Name	Tag	WT	HCW	Rib Fat	REA	RREA	Est. BW	YG	%BCTRC	Rank
Brooke	Sine	71338	109	59	0.17	03.9	01.6	02.2	02.1	45.9	1
Faith	Kibler	71307	90	49	0.23	03.6	01.4	02.2	02.7	45.7	2
Brooke	Sine	71339	122	66	0.17	03.9	01.8	02.2	02.1	45.4	3
Lilianna	Kibler	71315	101	55	0.16	03.4	01.5	02.2	02.0	45.3	4
Braylei	Dysart	71273	120	65	0.19	03.8	01.8	02.2	02.3	45.1	5
Brynalee	Dysart	71276	115	62	0.23	03.8	01.7	02.2	02.7	45.1	6
Kamden	Hoover	71296	106	57	0.16	03.4	01.6	02.2	02.0	44.9	7
Mackenzie	Kibler	71316	97	52	0.21	03.1	01.5	02.2	02.5	44.4	8
Brooke	Sine	71337	151	82	0.21	04.1	02.3	02.2	02.5	44.4	9
Emmalee	Clark	71266	146	79	0.23	04.1	02.2	02.3	02.7	44.3	10
Samuel	Dysart	71280	118	64	0.20	03.5	01.8	02.2	02.4	44.3	11
Addalynne	Stern	71342	114	62	0.19	03.3	01.7	02.2	02.3	44.3	12
Bryson	Peer	71324	101	55	0.18	03.0	01.5	02.2	02.2	44.2	13
Bryson	Peer	71325	103	56	0.21	03.1	01.6	02.2	02.5	44.0	14
Lilly	Poyser	71330	111	60	0.28	03.4	01.7	02.3	03.2	43.8	15
Preston	Belew	71256	144	78	0.41	04.4	02.2	02.4	04.5	43.8	16
Aiden	Springer	71341	90	49	0.09	02.4	01.4	02.1	01.3	43.8	17
Morgan	Yonts	71350	115	62	0.19	03.2	01.7	02.2	02.3	43.8	18
Olivia	Fisher	71282	135	73	0.26	03.7	02.0	02.3	03.0	43.6	19
Aiden	Springer	71340	107	58	0.11	02.7	01.6	02.1	01.5	43.6	20
Lizzi	Zirkle	71351	146	79	0.27	03.9	02.2	02.3	03.1	43.6	21
Harper	Gochenour	71285	127	69	0.34	03.8	01.9	02.4	03.8	43.6	22
Braylei	Dysart	71274	121	65	0.28	03.5	01.8	02.3	03.2	43.6	23
Elenor	Bauserman	71255	118	64	0.19	03.1	01.8	02.2	02.3	43.6	24
Zacharay	Jennelle	71300	90	49	0.11	02.3	01.4	02.1	01.5	43.6	25
Maggie	Kibler	71386	105	57	0.15	02.7	01.6	02.2	01.9	43.5	26
Stryker	Mongold	71352	97	52	0.20	02.7	01.5	02.2	02.4	43.5	27

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Alice	Poyser	71326	130	70	0.27	03.6	02.0	02.3	03.1	43.5	28
Sarah	Poyser	71331	132	71	0.24	03.5	02.0	02.3	02.8	43.5	29
Brant	Kibler	71433	131	71	0.18	03.3	02.0	02.2	02.2	43.5	30
Lilianna	Kibler	71311	90	49	0.22	02.7	01.4	02.2	02.6	43.4	31
Skilyr	See	71358	116	63	0.23	03.1	01.8	02.2	02.7	43.4	32
Nicholas (Carson)	Stern	71346	105	57	0.23	02.9	01.6	02.3	02.7	43.4	33
Morgan	Yonts	71349	132	71	0.23	03.5	02.0	02.3	02.7	43.4	34
Karter	Hoover	71299	115	62	0.23	03.1	01.7	02.3	02.7	43.4	35
Kamden	Hoover	71295	105	57	0.14	02.6	01.6	02.2	01.8	43.3	36
Preston	Belew	71257	145	78	0.39	04.2	02.2	02.4	04.3	43.3	37
Emmalee	Clark	71265	147	79	0.27	03.8	02.2	02.3	03.1	43.3	38
Lilly	Poyser	71329	114	62	0.19	02.9	01.7	02.2	02.3	43.3	39
Stryker	Mongold	71353	101	55	0.24	02.8	01.5	02.3	02.8	43.2	40
Tanner	Hawkins	71291	108	58	0.31	03.1	01.6	02.3	03.5	43.1	41
Alice	Poyser	71328	112	60	0.25	03.0	01.7	02.3	02.9	43.0	42
George	Hawkins, IV	71289	122	66	0.24	03.1	01.8	02.3	02.8	43.0	43
Emily	Copp	71269	98	53	0.20	02.6	01.5	02.2	02.4	43.0	44
Julieanna	Kibler	71310	109	59	0.22	02.8	01.6	02.2	02.6	42.9	45
Landon	Kibler	71313	137	74	0.20	03.3	02.1	02.2	02.4	42.9	46
Harlie	Kibler	71308	94	51	0.21	02.5	01.4	02.2	02.5	42.9	47
Karissa	Jones-Peer	71303	112	60	0.16	02.7	01.7	02.2	02.0	42.9	48
Mackenzie	Kibler	71383	109	59	0.28	02.9	01.6	02.3	03.2	42.9	49
Kamden	Reynolds	71335	113	61	0.31	03.1	01.7	02.3	03.5	42.9	50
Carson	Clark	71264	119	64	0.26	03.1	01.8	02.3	03.0	42.8	51
Joshua	Armentrout	71252	126	68	0.32	03.4	01.9	02.3	03.6	42.8	52
Olivia	Hawkins	71293	129	70	0.20	03.0	02.0	02.2	02.4	42.8	53
Elenor	Bauserman	71254	105	57	0.23	02.7	01.6	02.3	02.7	42.8	54
Trinitee	See	71363	99	53	0.24	02.6	01.5	02.3	02.8	42.7	55
Kenlee	Hausenfluck	71286	129	70	0.35	03.5	02.0	02.4	03.9	42.6	56
Addalynne	Stern	71343	101	55	0.23	02.5	01.5	02.3	02.7	42.5	57
Benjamin	Armentrout	71249	124	67	0.29	03.1	01.9	02.3	03.3	42.5	58
Faith	Kibler	71306	127	69	0.33	03.3	01.9	02.4	03.7	42.4	59
Nicholas (Carson)	Stern	71345	107	58	0.24	02.6	01.6	02.3	02.8	42.3	60

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Maggie	Kibler	71387	90	49	0.18	02.0	01.4	02.2	02.2	42.3	61
Karissa	Jones-Peer	71302	132	71	0.23	02.9	02.0	02.3	02.7	42.2	62
Savannah	Mitchem	71320	149	80	0.24	03.3	02.3	02.3	02.8	42.2	63
Brynalee	Dysart	71277	105	57	0.27	02.6	01.6	02.3	03.1	42.1	64
Sadie	Copp	71271	104	56	0.20	02.3	01.6	02.2	02.4	42.0	65
Carson	Clark	71263	143	77	0.29	03.2	02.2	02.3	03.3	42.0	66
Tysen	Cook	71268	125	68	0.46	03.5	01.9	02.5	05.0	42.0	67
Karlei	Baker	71253	95	51	0.30	02.4	01.4	02.3	03.4	42.0	68
Emily	Copp	71270	111	60	0.29	02.7	01.7	02.3	03.3	41.9	69
Karter	Hoover	71298	121	65	0.40	03.2	01.8	02.4	04.4	41.9	70
Sarah	Poyser	71332	148	80	0.42	03.7	02.2	02.4	04.6	41.8	71
Destiny	Pangle	71322	136	73	0.58	04.0	02.1	02.6	06.2	41.8	72
Gabriella	Povlish	71354	138	75	0.49	03.7	02.1	02.5	05.3	41.8	73
Samuel	Dysart	71361	136	73	0.38	03.3	02.1	02.4	04.2	41.8	74
Kenlee	Hausenfluck	71287	142	77	0.43	03.6	02.1	02.5	04.7	41.7	75
Trinitee	See	71362	139	75	0.44	03.5	02.1	02.5	04.8	41.6	76
Sadie	Copp	71272	123	66	0.34	02.9	01.9	02.4	03.8	41.5	77
Alice	Poyser	71327	120	65	0.34	02.8	01.8	02.4	03.8	41.5	78
Dara	Trail	71348	128	69	0.33	02.9	01.9	02.4	03.7	41.5	79
Harper	Gochenour	71284	144	78	0.46	03.6	02.2	02.5	05.0	41.4	80
Averie	Burgess	71262	121	65	0.39	03.0	01.8	02.4	04.3	41.4	81
Tysen	Cook	71267	136	73	0.39	03.1	02.1	02.4	04.3	41.1	82
Zacharay	Jennelle	71301	111	60	0.39	02.5	01.7	02.4	04.3	40.9	83
Skilyr	See	71357	134	72	0.46	03.2	02.0	02.5	05.0	40.8	84
Tanner	Hawkins	71292	114	62	0.41	02.5	01.7	02.4	04.5	40.6	85
Joshua	Armentrout	71251	136	73	0.51	03.1	02.1	02.5	05.5	40.2	86
Benjamin	Armentrout	71250	132	71	0.51	02.9	02.0	02.5	05.5	39.7	87
Kamden	Reynolds	71334	132	71	0.50	02.8	02.0	02.5	05.4	39.7	88

Explanation of Carcass Data Column Headings

Rib Fat: Thickness of the fat from the ribeye muscle to the outer surface of the carcass measured at the midpoint of the ribeye at the 12th rib.

REA: Ribeye area or loin muscle area in inches squared at the location of the 12th and 13th rib.

YG: USDA yield grade($0.4 + (10 \times \text{Backfat})$). Predictor of expected yield of trimmed retail cuts. Yield grade 1=leanest 5=fattest.

HCW: Predicted Hot carcass weight with 54% dressing percentage. BW: estimated body wall thickness using backfat

%BCTRC: Percentage of Boneless Closely-Trimmed Retail Cuts, represents the proportion of carcass that is saleable retail product.

RREA: Required Ribeye Area, or minimum loin muscle area expected for a given lambs weight class and carcass weight.

Lamb Ranking System

Ultrasound data and live weight were used to calculate Percentage of Boneless, Closely Trimmed Retail Cuts (%BCTRC).

%BCTRC was used to rank lambs. The formula for %BCTRC is

$\%BCTRC = 49.936 - (0.0848 \times \text{hot carcass weight}) - (4.376 \times \text{fat depth}) - (3.530 \times \text{body wall thickness}) + (2.456 \times \text{ribeye area})$

Hot carcass weight assumed a 54% dress. Yield grades were calculated using backfat thickness.

Additional parameters were adopted from the State Fair of Virginia:

Minimum BF of 0.12 in.

Maximum BF of 0.35 in. (maximum Yield Grade of 3.9)

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

Minimum carcass weight of 45.0 pounds

Scanning done by:

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