



2024 Shenandoah County Fair Lamb Carcass Ultrasound Contest



Tag	Last Name	First Name	Scan Weight	HCW	Rib Fat	REA	RREA	Est. BW	YG	%BCTRC	Rank
V1127	Poyser	Lilly	0103	56	0.18	04.2	02.5	02.20	02.18	54.63	1
9400	Clark	Carson	0104	56	0.14	03.7	02.5	02.16	01.75	53.65	2
V1145	Stern	Nicholas	0129	70	0.17	04.2	02.8	02.20	02.13	53.48	3
9403	Clark	Emmalee	0131	71	0.32	04.4	02.8	02.34	03.56	53.23	4
V1126	Poyser	Lilly	0120	65	0.18	03.8	02.7	02.20	02.16	52.97	5
9401	Clark	Carson	0125	68	0.23	04.0	02.8	02.26	02.74	52.89	6
9385	Kibler	Landon	0110	59	0.20	03.6	02.6	02.22	02.40	52.82	7
9442	Jennelle	Zacharay	0110	59	0.17	03.4	02.6	02.19	02.05	52.56	8
9419	Fisher	Olivia	0136	73	0.10	03.7	02.9	02.13	01.44	52.40	9
V1121	Peer	Bryson	0101	55	0.14	03.0	02.5	02.16	01.78	52.18	10
9412	Dysart	Braylei	0142	77	0.32	04.1	02.9	02.35	03.63	52.08	11
9449	Kibler	Julieanna	0104	56	0.14	03.1	02.5	02.16	01.75	52.08	12
9448	Jones Peer	Karissa	0126	68	0.19	03.5	02.8	02.21	02.29	51.94	13
V1139	Sine	Brooke	0114	62	0.17	03.2	02.6	02.19	02.05	51.84	14
V1124	Poyser	Sarah	0111	60	0.15	03.1	02.6	02.17	01.89	51.84	15
V1102	Kibler	Harlie	0141	76	0.21	03.8	02.9	02.23	02.49	51.83	16
V1149	Yonts	Morgan	0118	64	0.24	03.4	02.7	02.26	02.79	51.82	17
V1109	Kibler	Maggie	0096	52	0.15	02.8	02.4	02.18	01.95	51.81	18
9415	Dysart	Brynalee	0133	72	0.36	03.9	02.8	02.39	04.04	51.72	19
V1123	Poyser	Sarah	0140	76	0.21	03.7	02.9	02.23	02.47	51.70	20
9445	Sine	Brooke	0110	59	0.16	03.0	02.6	02.18	01.97	51.54	21
9402	Clark	Emmalee	0146	79	0.18	03.7	03.0	02.21	02.23	51.53	22
V1157	See	Trinitee	0115	62	0.21	03.2	02.6	02.23	02.52	51.49	23
V1138	Sine	Brooke	0121	65	0.20	03.2	02.7	02.22	02.37	51.39	24
V1142	Stern	Nicholas	0114	62	0.17	03.0	02.6	02.19	02.10	51.37	25
9423	Gochenour	Harper	0133	72	0.30	03.6	02.8	02.32	03.38	51.34	26
V1129	Reynolds	Kamden	0111	60	0.22	03.0	02.6	02.25	02.63	51.34	27
9446	Kibler	Lilianna	0110	59	0.14	02.9	02.6	02.16	01.82	51.32	28
9355	Hoover	Kamden	0123	66	0.20	03.2	02.7	02.22	02.38	51.30	29
V1120	Peer	Bryson	0122	66	0.11	03.0	02.7	02.14	01.54	51.27	30
9451	Kibler	Lilianna	0110	59	0.19	02.9	02.6	02.21	02.31	51.27	31
9414	Dysart	Brynalee	0136	73	0.39	03.8	02.9	02.42	04.33	51.22	32

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V1153	Pangle	Destiny	0107	58	0.18	02.8	02.6	02.20	02.20	51.21	33
9426	Hausenfluck	Kenlee	0122	66	0.18	03.1	02.7	02.20	02.16	51.14	34
9413	Dysart	Braylei	0113	61	0.31	03.1	02.6	02.33	03.48	51.09	35
V1154	Zirkle	Lizzi	0143	77	0.31	03.7	02.9	02.33	03.49	51.04	36
V1151	Pangle	Christopher	0113	61	0.28	03.1	02.6	02.31	03.24	51.03	37
V1134	Reynolds	Sophia	0124	67	0.15	03.0	02.7	02.18	01.95	50.99	38
V1113	Miller	Emma	0108	58	0.23	02.8	02.6	02.26	02.74	50.93	39
9447	Jones Peer	Karissa	0120	65	0.12	02.9	02.7	02.14	01.55	50.93	40
V1111	McCarter	Sydney	0123	66	0.15	03.0	02.7	02.17	01.87	50.92	41
9398	Berry	Nadia	0102	55	0.15	02.6	02.5	02.17	01.89	50.89	42
V1144	Stern	Addalynne	0105	57	0.17	02.7	02.5	02.19	02.07	50.89	43
V1107	Kibler	Maggie	0120	65	0.18	02.9	02.7	02.20	02.20	50.85	44
V1150	Belew	Preston	0104	56	0.14	02.6	02.5	02.16	01.78	50.85	45
V1114	Miller	Emma	0132	71	0.29	03.4	02.8	02.31	03.30	50.83	46
V1106	Kibler	Faith	0103	56	0.16	02.6	02.5	02.18	01.99	50.83	47
V1130	Reynolds	Kamden	0118	64	0.16	02.8	02.7	02.18	01.99	50.82	48
9420	Fisher	Olivia	0146	79	0.24	03.5	03.0	02.26	02.76	50.79	49
9430	Hausenfluck	Kenlee	0118	64	0.11	02.7	02.7	02.13	01.48	50.75	50
9450	Kibler	Brant	0135	73	0.26	03.3	02.9	02.28	02.97	50.75	51
9418	Dysart	Samuel	0120	65	0.22	03.0	02.7	02.24	02.58	50.72	52
V1112	McCarter	Sydney	0115	62	0.15	02.7	02.6	02.17	01.90	50.62	53
9435	Hawkins	Olivia	0101	55	0.09	02.3	02.5	02.11	01.30	50.62	54
V1147	Yonts	Morgan	0094	51	0.12	02.2	02.4	02.14	01.59	50.54	55
9411	Copp	Sadie	0107	58	0.27	02.7	02.6	02.29	03.08	50.52	56
9395	Berry	Kylee	0097	52	0.15	02.3	02.4	02.18	01.95	50.47	57
9452	Kibler	Mackenzie	0116	63	0.14	02.6	02.7	02.16	01.75	50.45	58
9396	Berry	Kylee	0092	50	0.18	02.3	02.4	02.21	02.23	50.43	59
V1143	Stern	Addalynne	0121	65	0.21	02.8	02.7	02.23	02.47	50.40	60
V1152	Pangle	Colton	0119	64	0.25	02.9	02.7	02.28	02.94	50.40	61
9406	Cook	Tyler	0125	68	0.25	03.0	02.8	02.27	02.89	50.36	62
V1105	Kibler	Faith	0118	64	0.14	02.6	02.7	02.16	01.78	50.33	63
V1135	Reynolds	Sophia	0120	65	0.26	02.9	02.7	02.29	03.03	50.29	64
9380	Hausenfluck	Grant	0111	60	0.16	02.5	02.6	02.18	02.01	50.27	65
9422	Gochenour	Harper	0115	62	0.27	02.7	02.6	02.29	03.11	50.17	66
9441	Jennelle	Zacharay	0121	65	0.20	02.7	02.7	02.22	02.40	50.15	67

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9437	Hawkins	Tanner	0093	50	0.08	01.9	02.4	02.10	01.22	50.05	68
9407	Cook	Tysen	0133	72	0.26	03.0	02.8	02.28	03.00	50.02	69
9429	Hausenfluck	Kenlee	0116	63	0.15	02.5	02.7	02.17	01.86	50.02	70
9439	Hoover	Kamden	0112	60	0.19	02.5	02.6	02.21	02.29	49.99	71
9409	Copp	Emily	0127	69	0.31	02.9	02.8	02.33	03.45	49.91	72
V1118	Armentrout	Benjamin	0123	66	0.37	02.9	02.7	02.39	04.09	49.82	73
V1156	See	Trinitee	0123	66	0.44	03.0	02.7	02.46	04.78	49.68	74
9433	Hawkins	Olivia	0111	60	0.11	02.1	02.6	02.13	01.50	49.61	75
9417	Dysart	Samuel	0138	75	0.27	02.9	02.9	02.29	03.08	49.57	76
9404	Cook	Tyler	0133	72	0.39	03.0	02.8	02.41	04.27	49.56	77
V1110	Marston	Madison	0133	72	0.29	02.8	02.8	02.31	03.30	49.54	78
V1140	Springer	Aiden	0090	49	0.06	01.5	02.4	02.09	01.05	49.26	79
9436	Hawkins	Tanner	0104	56	0.13	01.9	02.5	02.16	01.73	49.22	80
9405	Cook	Tyler	0132	71	0.38	02.9	02.8	02.40	04.18	49.21	81
9399	Berry	Nadia	0123	66	0.24	02.4	02.7	02.27	02.83	49.18	82
9432	Hawkins	George	0103	56	0.14	01.8	02.5	02.16	01.78	49.14	83
9379	Hausenfluck	Grant	0116	63	0.30	02.3	02.7	02.32	03.37	49.05	84
9392	Armentrout	Benjamin	0118	64	0.36	02.5	02.7	02.38	03.98	49.05	85
9410	Copp	Sadie	0131	71	0.41	02.8	02.8	02.43	04.50	48.97	86
9393	Armentrout	Joshua	0118	64	0.41	02.5	02.7	02.43	04.52	48.86	87
V1141	Springer	Aiden	0090	49	0.07	01.3	02.4	02.09	01.07	48.67	88
9431	Hawkins	George	0110	59	0.14	01.8	02.6	02.17	01.84	48.65	89
9394	Armentrout	Joshua	0147	79	0.35	02.8	03.0	02.37	03.90	48.52	90

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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