

2022 Augusta Market Aimal Show Lamb Ultrasound Carcass Data

Dress 54%

Body Wall (BW) Thickness estimated from BF

Tag ID	First Name	Last Name	Sh. Place	Show WT	HCW	BF	REA	RREA	Est. BW	YG	%BCTRC
286	Reagan	Ambler	6	134	72	0.37	03.53	02.85	01.03	04.05	42.00
287	Reagan	Ambler	7	118	64	0.26	03.46	02.67	00.86	02.97	44.26
422	Dalton	Ashley	5	105	57	0.17	02.82	02.53	00.73	02.10	44.64
446	Jack	Begoon	4	144	78	0.29	03.60	02.96	00.92	03.31	42.07
566	Callie	Bird	4	126	68	0.23	03.46	02.76	00.81	02.65	43.88
608	Callie	Bird	6	119	64	0.14	03.35	02.69	00.69	01.82	45.03
606	Wyatt	Britt	4	121	65	0.35	03.37	02.71	01.01	03.89	42.87
607	Wyatt	Britt	D1RC	106	57	0.25	03.05	02.54	00.85	02.87	44.36
299	Karley	Buchanan	1	124	67	0.25	03.01	02.74	00.85	02.87	42.74
307	Paige	Buchanan	1	130	70	0.37	02.76	02.80	01.03	04.05	40.44
527	Caleb	Campbell	5	120	65	0.14	03.13	02.70	00.68	01.78	44.44
595	Blake	Caricofe	2	124	67	0.21	03.39	02.74	00.80	02.55	43.98
594	Elissa	Caricofe	1	113	61	0.11	03.11	02.62	00.63	01.50	45.27
396	Madison	Carroll	8	91	49	0.09	02.49	02.38	00.60	01.28	45.84
601	Madison	Carroll	9	97	52	0.15	02.74	02.45	00.70	01.89	45.33
510	Bradley	Craun	2	121	65	0.36	02.89	02.71	01.02	03.96	41.63
534	Lily	Davis	5	128	69	0.23	03.78	02.78	00.83	02.72	44.43
535	Lily	Davis	4	141	76	0.42	04.16	02.92	01.13	04.65	42.38
450	Sierra	Dedo	7	101	55	0.17	02.88	02.49	00.73	02.13	45.09
592	Cheyenne	Deming	5	116	63	0.18	02.98	02.65	00.74	02.20	44.00
593	Cheyenne	Deming	2	145	78	0.19	03.94	02.97	00.76	02.31	43.79
580	Montana	Deming	9	127	69	0.20	03.34	02.77	00.78	02.42	43.75
591	Montana	Deming	5	111	60	0.19	03.26	02.60	00.77	02.34	44.97
270	Elyse	Dyson	D3RC	127	69	0.35	03.48	02.77	01.00	03.85	42.66
271	Elyse	Dyson	1	135	73	0.30	03.71	02.86	00.93	03.42	42.97
269	Haven	Dyson	2	106	57	0.13	03.14	02.54	00.67	01.73	45.70
297	Bella	Echols	6	101	55	0.21	02.71	02.49	00.79	02.52	44.29
290	Jonny	Echols	8	131	71	0.29	03.26	02.81	00.91	03.25	42.39
587	Braelynn	Fitzgerald	2	91	49	0.10	02.40	02.38	00.62	01.41	45.49
589	Braelynn	Fitzgerald	4	117	63	0.16	02.66	02.66	00.71	01.99	43.35

Tag ID	First Name	Last Name	Sh. Place	Show WT	HCW	BF	REA	RREA	Est. BW	YG	%BTRC
440	Lucas	Gwaltney	5	119	64	0.12	03.40	02.69	00.66	01.65	45.34
282	Reagan	Gwaltney	4	130	70	0.15	04.37	02.80	00.70	01.90	46.53
283	Reagan	Gwaltney	3	134	72	0.42	04.14	02.85	01.12	04.59	42.96
410	Scott	Hickey	2	118	64	0.24	02.84	02.67	00.84	02.85	42.84
421	Scott	Hickey	6	124	67	0.24	03.32	02.74	00.84	02.83	43.55
515	Tyler	Hohenstein	8	105	57	0.16	02.41	02.53	00.71	01.97	43.77
541	Tyler	Hohenstein	3	138	75	0.18	03.64	02.89	00.74	02.20	43.77
425	Makayla	Horn	6	141	76	0.23	02.96	02.92	00.82	02.68	41.36
437	Riley	Horn	9	115	62	0.12	02.33	02.64	00.66	01.65	43.03
439	Roxanna	Horn	5	130	70	0.26	03.02	02.80	00.86	02.95	42.18
600	Dakota	Humphries	9	133	72	0.24	03.23	02.84	00.84	02.82	42.57
611	Dakota	Humphries	6	148	80	0.38	03.78	03.00	01.06	04.25	41.23
596	Charles	Hunter	7	130	70	0.22	03.92	02.80	00.81	02.63	44.71
597	Charles	Hunter	9	143	77	0.27	02.85	02.94	00.89	03.11	40.51
585	Willow	Hunter	8	138	75	0.29	03.14	02.89	00.92	03.34	41.41
598	Willow	Hunter	9	102	55	0.08	02.52	02.50	00.58	01.17	45.07
522	Anna	Jennings	3	110	59	0.20	03.45	02.59	00.77	02.37	45.51
525	Kylie	Jennings	5	103	56	0.16	02.79	02.51	00.71	01.97	44.86
447	Emily	Klein	1	144	78	0.28	04.26	02.96	00.90	03.19	43.80
448	Emily	Klein	D2GC	120	65	0.33	04.04	02.70	00.97	03.66	44.83
400	Kelsey	Lambert	9	106	57	0.12	02.70	02.54	00.66	01.65	44.71
403	Kelsey	Lambert	6	109	59	0.17	02.65	02.58	00.72	02.07	43.91
401	Landen	Lambert	9	125	68	0.14	03.45	02.75	00.68	01.78	44.81
432	Landen	Lambert	5	134	72	0.33	03.21	02.85	00.99	03.75	41.52
402	Tianna	Lambert	8	118	64	0.20	02.86	02.67	00.77	02.40	43.34
405	Tianna	Lambert	8	130	70	0.40	03.15	02.80	01.09	04.43	41.04
576	Tyler	Layman	3	113	61	0.23	03.31	02.62	00.82	02.68	44.58
528	Carter	Lough	8	134	72	0.41	02.59	02.85	01.10	04.46	39.30
542	Carter	Lough	6	114	62	0.16	03.15	02.63	00.72	02.03	44.76
584	Madison	Lyle	7	150	81	0.22	03.61	03.02	00.81	02.61	42.26
571	Kylee	Maddox	9	130	70	0.25	02.79	02.80	00.85	02.89	41.66
572	Kylee	Maddox	3	91	49	0.15	02.93	02.38	00.69	01.86	46.33
557	Tucker	Maddox	8	125	68	0.25	02.81	02.75	00.85	02.89	42.13

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560	Tucker	Maddox	7	120	65	0.19	02.96	02.70	00.77	02.34	43.49
413	Jackson	Michael	3	121	65	0.22	03.00	02.71	00.80	02.58	43.24
414	Jackson	Michael	2	120	65	0.15	02.75	02.70	00.70	01.92	43.37
426	Summer	Mish	4	127	69	0.45	03.27	02.77	01.17	04.94	41.06
427	Summer	Mish	3	126	68	0.16	03.23	02.76	00.72	02.03	43.94
529	Bryce	Mitchell	8	98	53	0.18	02.47	02.46	00.74	02.18	44.30
288	Landon	Morris	8	139	75	0.19	03.23	02.90	00.75	02.27	42.59
411	Liam	Morris	3	116	63	0.16	02.48	02.65	00.71	01.99	42.99
415	Liam	Morris	D3GC	127	69	0.17	03.29	02.77	00.73	02.10	43.93
562	Cameron	Moyer	4	104	56	0.20	03.41	02.52	00.78	02.42	45.86
563	Cameron	Moyer	9	122	66	0.28	03.16	02.72	00.90	03.17	42.97
553	Bentley	Napier	9	121	65	0.18	02.72	02.71	00.74	02.20	42.95
554	Bentley	Napier	5	108	58	0.19	02.39	02.57	00.76	02.31	43.12
394	Riley	Rexrode	8	148	80	0.22	03.25	03.00	00.80	02.58	41.59
395	Riley	Rexrode	5	117	63	0.13	03.34	02.66	00.66	01.68	45.31
545	Benjamin	Riley	7	112	60	0.19	02.82	02.61	00.77	02.34	43.82
556	Benjamin	Riley	9	92	50	0.14	02.35	02.39	00.68	01.82	44.87
543	Bryson	Riley	2	113	61	0.16	02.79	02.62	00.71	01.98	44.01
544	Bryson	Riley	8	113	61	0.23	02.57	02.62	00.83	02.74	42.71
530	Morgan	Robinson	3	120	65	0.28	03.67	02.70	00.90	03.19	44.38
523	Wesley	Rohr	8	118	64	0.15	02.98	02.67	00.70	01.94	44.08
398	Codie	Ross	8	108	58	0.18	02.59	02.57	00.74	02.20	43.72
399	Codie	Ross	6	105	57	0.17	03.20	02.53	00.73	02.10	45.58
582	Hayden	Ruebush	4	124	67	0.23	02.80	02.74	00.82	02.71	42.38
583	Hayden	Ruebush	3	106	57	0.11	02.57	02.54	00.64	01.52	44.52
274	Elizabeth	Sheets	7	108	58	0.13	02.30	02.57	00.67	01.72	43.50
275	Elizabeth	Sheets	8	122	66	0.23	03.16	02.72	00.81	02.65	43.48
614	Aiden	Shiflett	9	130	70	0.24	03.43	02.80	00.83	02.76	43.37
615	Aiden	Shiflett	3	138	75	0.31	03.38	02.89	00.95	03.50	41.84
406	Rylee	Shiflett	5	127	69	0.34	03.03	02.77	01.00	03.83	41.59
407	Rylee	Shiflett	4	131	71	0.21	03.65	02.81	00.79	02.52	44.05
532	Ella	Shreckhise	4	107	58	0.18	03.23	02.56	00.74	02.18	45.40
533	Ella	Shreckhise	2	114	62	0.19	03.14	02.63	00.77	02.34	44.44

Tag ID	First Name	Last Name	Sh. Place	Show WT	HCW	BF	REA	RREA	Est. BW	YG	%BCTRC
558	Allison	Shultz	7	132	71	0.35	02.93	02.83	01.01	03.93	40.82
559	Allison	Shultz	9	110	59	0.30	02.76	02.59	00.93	03.40	42.78
570	Ella	Swope	3	103	56	0.15	03.25	02.51	00.70	01.89	46.07
581	Ella	Swope	5	123	66	0.11	02.81	02.73	00.64	01.52	43.68
284	Colton	Thornton	3	118	64	0.24	03.31	02.67	00.84	02.82	44.03
285	Colton	Thornton	RSGC	137	74	0.20	04.00	02.88	00.78	02.42	44.51
272	Sahara	Traylor	1	131	71	0.19	04.04	02.81	00.76	02.27	45.26
273	Sahara	Traylor	1	128	69	0.32	03.72	02.78	00.96	03.60	43.43
602	Madison	Wheeler	2	143	77	0.19	03.89	02.94	00.77	02.34	43.82
603	Madison	Wheeler	6	126	68	0.23	03.60	02.76	00.83	02.74	44.15
538	Noah	Wine	1	120	65	0.17	03.37	02.70	00.73	02.13	44.69
539	Noah	Wine	3	128	69	0.18	03.09	02.78	00.75	02.23	43.21

Averages	WT	Num.	BF	BW	REA	YG	HCW	%BCTRC	RREA
2022 (108 Lambs)	121	108	0.22	0.81	3.16	2.61	65.38	43.60	2.71
2021 (87 Lambs)	119	87	0.21	0.80	3.14	2.53	64.46	43.80	3.04
2019 (94 Lambs)	119	94	0.18	0.75	3.18	2.22	64.10	48.88	2.68
2018 (98 Lambs)	119	98	0.19	0.77	3.48	2.35	64.03	49.50	2.68
2017 (86 Lambs)	118	86	0.19	0.75	3.23	2.27	63.57	46.09	2.67
2016 (110 Lambs)	122	110	0.23	0.81	3.40	2.67	65.86	46.34	2.72

Explanation of Carcass Data Column Headings

BF: 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.

%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.

Sh. Pl.: Show Place

Num.: Number of lambs entering contest

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

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

%BCTRC =

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

Lamb carcass index is shown for comparison purposes only. The index starts all lambs at a base value of 80 and makes adjustments for yield grade, loin muscle area, body wall thickness and backfat.

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

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