

2023 Augusta Market Animal Show Lamb Ultrasound Carcass Data

Dress 54%

First Name	Last Name	Tag ID	Show Place	Show WT	HCW	Rib Fat	REA	RREA	Est.BW	Y.G.	%BTRC
Callie	Bird	215	9	104	56	0.17	3.21	1.57	0.74	2.10	49.70
Wyatt	Britt	655	D3 RC	115	62	0.13	3.25	1.74	0.67	1.70	49.72
Wyatt	Britt	654	1	111	60	0.19	3.29	1.68	0.77	2.30	49.38
Connor	Campbell	257	2	101	55	0.26	3.46	1.53	0.88	3.00	49.56
Connor	Campbell	256	6	133	72	0.42	3.46	2.01	1.13	4.60	46.52
Blake	Caricofe	225	D1 3rd overall	102	55	0.11	3.4	1.54	0.64	1.50	50.88
Elissa	Caricofe	235	1	104	56	0.34	3.44	1.57	1.01	3.80	48.57
Bradley	Craun	231	4	146	79	0.37	4.36	2.21	1.06	4.10	48.60
Montana	Deming	202	1	126	68	0.26	3.79	1.91	0.88	3.00	49.23
Haven	Dyson	661	4	141	76	0.29	3.84	2.13	0.93	3.30	48.36
Brailyn	Green	380	4	116	63	0.27	3.38	1.75	0.9	3.10	48.57
Lucas	Gwaltney	311	4	126	68	0.17	4.33	1.91	0.74	2.10	51.44
Reagan	Gwaltney	305	3	121	65	0.26	3.75	1.83	0.88	3.00	49.36
Addison	Helmick	263	9	123	66	0.22	3.61	1.86	0.82	2.60	49.31
Garrett	Hickey	365	7	120	65	0.22	3.82	1.81	0.82	2.60	49.97
Garrett	Hickey	363	7	114	62	0.22	3.03	1.72	0.82	2.60	48.30
Scott	Hickey	370	8	102	55	0.19	3.35	1.54	0.77	2.30	49.94
Scott	Hickey	382	4	118	64	0.18	3.35	1.78	0.75	2.20	49.32
Tyler	Hohenstein	371	7	128	69	0.2	3.13	1.94	0.78	2.40	48.13
Tyler	Hohenstein	372	3	119	64	0.2	2.58	1.80	0.78	2.40	47.19
Blake	Holenstine	383	8	120	65	0.15	3.22	1.81	0.7	1.90	49.22
Blake	Holenstine	381	6	121	65	0.18	3.06	1.83	0.75	2.20	48.48
Riley	Horn	237	5	104	56	0.12	2.92	1.57	0.66	1.60	49.49
Roxanna	Horn	228	6	109	59	0.15	3.07	1.65	0.7	1.90	49.36
Roxanna	Horn	229	3	90	49	0.19	2.78	1.36	0.77	2.30	49.09
Karleigh	Howdysshell	294	2	102	55	0.11	3.45	1.54	0.64	1.50	51.00
Karleigh	Howdysshell	293	3	126	68	0.24	4.07	1.91	0.85	2.80	50.11
Emily	Klein	251	2	129	70	0.22	3.99	1.95	0.82	2.60	49.97
Emily	Klein	335	2	139	75	0.16	3.86	2.10	0.72	2.00	49.81
Landen	Lambert	269	7	141	76	0.32	3.71	2.13	0.98	3.60	47.73

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Kylee	Maddox	239	6	92	50	0.13	2.7	1.39	0.67	1.70	49.42
Kylee	Maddox	240	8	110	59	0.23	3.13	1.66	0.83	2.70	48.65
Layla	McCray	288	7	104	56	0.19	3.25	1.57	0.77	2.30	49.61
Layla	McCray	290	10	121	65	0.23	3.04	1.83	0.83	2.70	47.93
Summer	Mish	286	2	124	67	0.24	3.38	1.87	0.85	2.80	48.51
Summer	Mish	287	3	124	67	0.23	3.11	1.87	0.83	2.70	47.96
Cameron	Moyer	351	10	104	56	0.15	2.94	1.57	0.7	1.90	49.27
Cameron	Moyer	368	8	105	57	0.2	3.12	1.59	0.78	2.40	49.16
Chloe	Phillips	260	5th overall	144	78	0.22	4.29	2.18	0.82	2.60	50.02
Chloe	Phillips	261	D3 3rd	121	65	0.23	3.7	1.83	0.83	2.70	49.55
Makayla	Puffenbarger	264	3	108	58	0.12	3.43	1.63	0.66	1.60	50.56
Makayla	Puffenbarger	265	5	144	78	0.2	4.25	2.18	0.78	2.40	50.15
Benjamin	Riley	355	8	115	62	0.18	3.23	1.74	0.75	2.20	49.17
Benjamin	Riley	354	8	124	67	0.15	3.18	1.87	0.7	1.90	48.94
Bryson	Riley	361	4	92	50	0.11	3.05	1.39	0.64	1.50	50.47
Bryson	Riley	362	9	133	72	0.46	3.04	2.01	1.2	5.00	45.06
Joshua	Robertson	334	9	108	58	0.16	3.77	1.63	0.72	2.00	51.01
Joshua	Robertson	333	9	129	70	0.3	3.88	1.95	0.94	3.40	48.93
Morgan	Robinson	384	7	107	58	0.13	3.08	1.62	0.67	1.70	49.67
Morgan	Robinson	375	6	111	60	0.21	3.15	1.68	0.8	2.50	48.85
Hayden	Ruebush	332	D1 GC	101	55	0.18	3.65	1.53	0.75	2.20	50.84
Hayden	Ruebush	331	4th overall	124	67	0.14	3.63	1.87	0.69	1.80	50.12
Elizabeth	Sheets	326	4	108	58	0.15	3.2	1.63	0.7	1.90	49.72
Elizabeth	Sheets	327	8	138	75	0.22	4	2.09	0.82	2.60	49.58
Rylee	Shiflett	323	8	109	59	0.16	2.68	1.65	0.72	2.00	48.28
Rylee	Shiflett	324	8	134	72	0.24	3	2.03	0.85	2.80	47.12
Ella	Shreckhise	625	6	103	56	0.15	3.28	1.56	0.7	1.90	50.15
Ella	Shreckhise	624	5	130	70	0.16	3.66	1.97	0.72	2.00	49.73
Allison	Shultz	212	9	111	60	0.16	3.41	1.68	0.72	2.00	49.99
Colton	Thornton	259	2	131	71	0.23	4.17	1.98	0.83	2.70	50.24
Colton	Thornton	258	3rd overall	138	75	0.24	4.27	2.09	0.85	2.80	50.05
Sahara	Traylor	340	GC	114	62	0.22	4.43	1.72	0.82	2.60	51.74
Sahara	Traylor	337	2	125	68	0.27	3.84	1.89	0.9	3.10	49.28

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Noah	Wine	347	3	114	62	0.13	3.23	1.72	0.67	1.70	49.71
Noah	Wine	348	4	125	68	0.23	3.83	1.89	0.83	2.70	49.68

Averages		WT	Num.	BF	BW	REA	YG	HCW	%BCTRC	RREA
2023 (65 Lambs)		118	65	0.21	0.795	3.46092	2.47	64	49.31	1.79
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 × 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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