

INDRELAND ANGUS BULL SCAN DATA Clay Nash, Technician

Beef Image Analysis (BIA) live animal carcass ultrasound is an automated chuteside software system that captures images and calculates trait measurements on an objective basis. The traits determined by BIA ultrasound software are: Ribeye Area (REA), Backfat Thickness (BF), Ribeye Area/Hundred lbs Live Weight (REA/CWT), Percent Intramuscular Fat (% IMF), Ribeye Shape Score (RES), Stress Score (SS), and Tenderness Score (TEND).

RES = Ribeye Shape Score.

Indicative of desired shape of the ribeye muscle. Correlated to eventual Yield Grade, Cutability and % Retail Product. Score ranges from 0.0 to 1.0.

Acceptable score is 0.35 or greater in yearling bulls, with an ideal score being 0.45 or better.

Ideal score in heifers is 0.35 or better, with acceptable scores of 0.30 or better.

SS = Stress Score.

Correlated to immune system strength of calf. Score ranges from 10-50.

10=No Stress, 20=Slight Stress, 30=Slightly Moderate Stress, 40=Moderate Stress, 50=Severe Stress.

Impacts DTF, ADG, WDA, TCOG, Health Costs, QG, and YG.

Ideal score is 20 or less.

TEND = Tenderness Score.

Correlated to actual Warner-Bratzler Shear Force (WB) in carcass ribeye steak at 12th rib location.

Correlation Coefficients between WB and TEND currently average 0.85 – 0.87.

Score ranges from 10-50. 10=Very Tender, 20=Tender, 30=Slightly Tender, 40=Slightly Tough, 50=Tough.

Acceptable score in yearling bulls is 28 or less. Ideal score is 25 or less.

% IMF = Percent Intramuscular Fat (Marbling).

.28 - 2.57 % IMF = USDA QG Standard (Practically Devoid of Marbling)

2.58 - 3.89 % IMF = USDA QG Select (Slight Marbling)

3.90 - 5.33 % IMF = USDA QG Choice- (Small Marbling)

5.34 - 8.55 % IMF = USDA QG Choice+ (Modest/Moderate Marbling)

8.55+ % IMF = USDA QG Prime (Abundant Marbling)

Tag	Sex	Breed	Scan Date	Weight	REA	REA/CWT	Shape	IMF	BF	Tend	Stress
2900	Bull	Angus	5/30/23	635	8.32	1.31	0.46	2.47	0.07	25	10
2903	Bull	Angus	5/30/23	600	8.73	1.46	0.39	2.50	0.10	27	10
2904	Bull	Angus	5/30/23	620	7.35	1.19	0.32	1.75	0.08	26	10
2905	Bull	Angus	5/30/23	705	7.00	0.99	0.48	2.36	0.08	26	10
2907	Bull	Angus	5/30/23	485	5.45	1.12	0.51	3.02	0.07	27	10
2500	Bull	Angus	5/30/23	640	8.14	1.27	0.37	2.34	0.08	25	10
2501	Bull	Angus	5/30/23	575	5.67	0.99	0.53	2.48	0.09	25	10
2502	Bull	Angus	5/30/23	545	8.02	1.47	0.33	1.40	0.09	26	10
2503	Bull	Angus	5/30/23	625	8.78	1.40	0.35	2.37	0.08	24	10
2504	Bull	Angus	5/30/23	555	6.57	1.18	0.30	1.97	0.08	24	10
2507	Bull	Angus	5/30/23	540	7.94	1.47	0.43	1.49	0.07	27	10
2509	Bull	Angus	5/30/23	615	7.26	1.18	0.40	2.12	0.08	27	10
2510	Bull	Angus	5/30/23	570	7.17	1.26	0.49	2.84	0.08	26	10
2512	Bull	Angus	5/30/23	625	5.66	0.91	0.39	3.10	0.10	28	10
2513	Bull	Angus	5/30/23	560	6.57	1.17	0.41	2.66	0.08	26	10
2514	Bull	Angus	5/30/23	565	6.80	1.20	0.30	2.49	0.08	26	10
2517	Bull	Angus	5/30/23	550	5.46	0.99	0.38	2.48	0.08	26	10
2518	Bull	Angus	5/30/23	525	7.06	1.34	0.33	2.26	0.08	27	10
2519	Bull	Angus	5/30/23	515	5.95	1.15	0.41	1.97	0.07	27	10
2520	Bull	Angus	5/30/23	525	8.30	1.58	0.30	2.79	0.08	28	10
2521	Bull	Angus	5/30/23	495	5.69	1.15	0.44	2.12	0.08	25	10
2522	Bull	Angus	5/30/23	495	5.86	1.18	0.33	3.32	0.08	24	10

Tag	Sex	Breed	Scan Date	Weight	REA	REA/CWT	Shape	IMF	BF	Tend	Stress
2524	Bull	Angus	5/30/23	470	8.29	1.76	0.38	2.28	0.09	27	10
2526	Bull	Angus	5/30/23	555	7.19	1.30	0.33	2.32	0.09	26	10
2527	Bull	Angus	5/30/23	555	6.36	1.15	0.48	2.10	0.08	27	10
2528	Bull	Angus	5/30/23	505	7.13	1.41	0.38	3.00	0.09	25	10
2529	Bull	Angus	5/30/23	520	7.93	1.52	0.37	3.07	0.08	26	10
2531	Bull	Angus	5/30/23	570	6.48	1.14	0.34	2.35	0.07	25	10
2532	Bull	Angus	5/30/23	580	8.77	1.51	0.43	2.02	0.08	26	10
2533	Bull	Angus	5/30/23	680	7.31	1.07	0.47	3.12	0.08	27	10
2534	Bull	Angus	5/30/23	610	7.63	1.25	0.34	2.04	0.08	26	10
2538	Bull	Angus	5/30/23	550	7.78	1.41	0.40	3.08	0.10	28	10
2540	Bull	Angus	5/30/23	510	7.48	1.47	0.37	2.96	0.07	28	10
2542	Bull	Angus	5/30/23	565	7.02	1.24	0.32	2.11	0.08	27	10
2544	Bull	Angus	5/30/23	555	5.96	1.07	0.45	2.51	0.08	25	10
2546	Bull	Angus	5/30/23	630	7.00	1.11	0.40	1.63	0.09	25	10
2547	Bull	Angus	5/30/23	465	6.35	1.36	0.32	2.81	0.08	26	10
2548	Bull	Angus	5/30/23	525	7.20	1.37	0.44	2.97	0.08	28	10
2549	Bull	Angus	5/30/23	565	5.65	1.00	0.46	1.70	0.07	26	10
2550	Bull	Angus	5/30/23	670	10.08	1.50	0.39	2.51	0.08	28	10
2551	Bull	Angus	5/30/23	610	5.56	0.91	0.38	1.66	0.09	26	10
2552	Bull	Angus	5/30/23	580	6.87	1.18	0.38	2.18	0.09	26	10
2553	Bull	Angus	5/30/23	635	7.88	1.24	0.37	1.98	0.09	27	10
2554	Bull	Angus	5/30/23	570	7.09	1.24	0.34	2.12	0.08	27	10
2555	Bull	Angus	5/30/23	475	6.91	1.45	0.37	2.81	0.08	25	10
2556	Bull	Angus	5/30/23	585	6.06	1.04	0.38	2.41	0.07	26	10
2557	Bull	Angus	5/30/23	465	6.55	1.41	0.33	2.53	0.08	24	10
2558	Bull	Angus	5/30/23	700	7.17	1.02	0.46	3.03	0.07	28	10
2559	Bull	Angus	5/30/23	495	5.97	1.21	0.37	2.09	0.07	24	10
2560	Bull	Angus	5/30/23	550	5.31	0.96	0.37	3.36	0.09	26	10
2561	Bull	Angus	5/30/23	545	6.44	1.18	0.36	2.39	0.08	25	10
2565	Bull	Angus	5/30/23	565	7.62	1.35	0.42	2.83	0.08	26	10
2566	Bull	Angus	5/30/23	520	5.29	1.02	0.42	2.79	0.08	25	10
2570	Bull	Angus	5/30/23	505	6.10	1.21	0.44	3.17	0.08	27	10
2574	Bull	Angus	5/30/23	515	6.69	1.30	0.50	1.94	0.08	25	10
2576	Bull	Angus	5/30/23	585	6.01	1.03	0.35	2.41	0.10	27	10
2581	Bull	Angus	5/30/23	470	5.60	1.19	0.44	2.58	0.07	26	10
2583	Bull	Angus	5/30/23	500	7.94	1.59	0.34	3.09	0.07	26	10
2585	Bull	Angus	5/30/23	575	7.10	1.23	0.36	2.89	0.09	26	10
2586	Bull	Angus	5/30/23	480	5.44	1.13	0.48	2.93	0.07	26	10
2587	Bull	Angus	5/30/23	525	4.73	0.90	0.30	2.37	0.09	25	10
2588	Bull	Angus	5/30/23	450	5.73	1.27	0.38	2.54	0.08	25	10
2591	Bull	Angus	5/30/23	465	5.83	1.25	0.39	2.59	0.07	25	10
2593	Bull	Angus	5/30/23	490	7.55	1.54	0.37	2.39	0.08	26	10
2594	Bull	Angus	5/30/23	410	6.18	1.51	0.42	1.99	0.07	27	10
2595	Bull	Angus	5/30/23	535	6.92	1.29	0.45	2.45	0.08	26	10
2596	Bull	Angus	5/30/23	565	5.92	1.05	0.34	1.44	0.08	25	10
2597	Bull	Angus	5/30/23	560	6.54	1.17	0.34	2.74	0.08	25	10
2598	Bull	Angus	5/30/23	500	6.63	1.33	0.34	2.47	0.08	26	10
2600	Bull	Angus	5/30/23	530	7.63	1.44	0.37	2.09	0.07	25	10
2601	Bull	Angus	5/30/23	475	7.52	1.58	0.46	1.79	0.07	26	10
2603	Bull	Angus	5/30/23	515	7.65	1.49	0.41	3.04	0.09	26	10
2605	Bull	Angus	5/30/23	425	6.10	1.43	0.41	2.07	0.08	26	10
2606	Bull	Angus	5/30/23	540	7.36	1.36	0.37	2.57	0.08	26	10
2612	Bull	Angus	5/30/23	475	6.82	1.44	0.45	2.66	0.07	27	10
2613	Bull	Angus	5/30/23	445	6.99	1.57	0.44	2.48	0.07	25	10
2619	Bull	Angus	5/30/23	530	7.26	1.37	0.33	2.59	0.09	27	10
2620	Bull	Angus	5/30/23	505	7.71	1.53	0.38	2.81	0.08	27	10
2801	Bull	Angus	5/30/23	480	6.28	1.31	0.38	2.38	0.08	26	10
Average of all 2023 Yearling Bulls:				536	6.85	1.29	0.39	2.47	0.08	26	10