

# Springwood Livestock Management Service

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## 2014 Shenandoah County Fair

### 4-H/FFA Steer Ultrasound Data Explanation

Column A:	Exhibitor
Column B:	Tag Number
Column C:	Live Wt. (provided by Shenandoah County Extension Office)
Column D:	Carcass Wt. (ending live wt. x 63.5% dressing )
Column E:	Ultrasound rib eye area
Column F:	Average REA required (based on carcass weight)
Column G:	Ultrasound Rib Fat
Column H:	Ultrasound %IMF
Column I:	Marbling Score (based on %IMF and used to determine quality grade)
Column J:	Quality Grade (based on ultrasound data, <u>NOT</u> Live quality grade)
Column K:	Yield Grade (calculated using carcass wt., REA, and back fat)
Column L:	% Retail Product (calculated based on carcass weight, back fat, and muscling)
Column M:	Base Carcass Price (\$/lb) – Actual price for cattle killed the day of your fair
Column N:	Quality Grade Premium/Discount – Low Choice being the median with premiums Discounts applied accordingly
Column O:	Yield Grade Premium/Discount – Yield Grades 3.0 – 3.9 are the median with Premiums and discounts applied accordingly
Column P:	Carcass Weight Premium/Discount – 600 – 900 pound carcasses are acceptable Discounts applied to carcasses over 901 pounds
Column Q:	Carcass Price (\$/lb) – the final price/lb that given carcass is worth after Incorporating all premiums and discounts
Column R:	Total Carcass Value – The carcass price/lb x carcass weight for that animal
Column S:	Final Rank

#### Pertinent Facts:

- 1) Steers were disqualified if they had a:
  - A: hot carcass wt. of less than 600 pounds or more than 950 pounds
  - B: Yield grade of 4.0 or higher
  - C: Quality grade of Select – or lower

**\*\*This year steers were ranked by quality and yield with the top six steers being recognized for having “best” carcasses that would meet CAB standards based on quality grade, muscling, target Hot Carcass Weight, and Percent Retail Product.**

Steer #1 is the best combination of muscling, leanness, and quality grade. He is above average for muscling with a 15.1 REA, is extremely lean at .24 inches of back fat, and still boasts enough marbling to make the choice grade, all while having the highest Percent Retail Product figure.

Steers 1 – 13 meet industry standards – all being choice cattle and yield grade 1 -2's.

Steers 14 – 15 while meeting industry standards for quality and yield are below average muscling when compared to the top 13 steers.

Steers 16 - 27 are within adequate fat and YG range and acceptable quality grade, but needed more muscle or less rib fat to drop into the yield grade 2 category. Those with adequate muscle should have been leaner and those with acceptable leanness required more muscling.

Steers 27 – 33 were more severely lacking in muscle and/or carrying too much back fat as compared to the steers above them and as evidenced by their high yield grade 3 values.

Steer 33 was disqualified based on the Hot Carcass Weight of 951 pounds.

Steers 32 - 34 did not meet the Choice grade, and were below average on muscling.

2014 Shenandoah County Fair  
4-H/FFA Market Steer Ultrasound Competition

				Ultrasound	Avg.	Ultrasound	Ultrasound	Marbling	Quality	Yield	%	Base	QG	YG	Carcass	Carcass	Total	Rank
	ID	Live Wt	Carcass Wt	REA	REA (for carcass wt)	Rib Fat	%IMF	Score	Grade	Grade	Product	Price (\$/lb.)	Premiu m/Disco unt	Premiu m/Disco unt	Premium/ Discount	Price (\$/lb.)	Value	
Brett Poling	391	1209	768	15.1	13.0	0.24	04.78	1032	Choice-	1.7	75.2	\$2.42	\$0.00	\$0.032	\$0.00	\$2.45	\$1,882.44	1
Kyle Lutz	413	1328	843	16.3	13.9	0.45	06.47	1113	Choice <sup>0</sup>	2.1	72.2	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$2,081.64	2
Luke Whitacre	400	1192	757	15.4	12.9	0.46	07.63	1163	Choice <sup>0</sup>	2.1	71.5	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$1,868.46	3
Elizabeth Funkhouser	393	1250	794	14.4	13.3	0.32	04.63	1024	Choice-	2.2	73.4	\$2.42	\$0.00	\$0.016	\$0.00	\$2.44	\$1,933.58	4
Elizabeth Funkhouser	394	1287	817	15.4	13.6	0.41	04.54	1020	Choice-	2.2	72.4	\$2.42	\$0.00	\$0.016	\$0.00	\$2.44	\$1,990.81	5
Bethany Gochenour	824	1389	882	15.8	14.4	0.42	06.53	1115	Choice <sup>0</sup>	2.3	72.4	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$2,177.25	6
Nicole D Kibler	417	1303	827	15.6	13.7	0.58	06.62	1119	Choice <sup>0</sup>	2.6	69.5	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$2,042.45	7
Caleb Fredman	378	1272	808	14.6	13.5	0.52	07.79	1169	Choice <sup>0</sup>	2.7	70.0	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$1,993.86	8
Jacob Coffey	381	1227	779	14.1	13.1	0.50	09.25	1225	Choice+	2.7	70.1	\$2.42	\$0.06	\$0.016	\$0.00	\$2.50	\$1,944.75	9
Caleb Fredman	377	1174	745	13.4	12.7	0.47	08.67	1203	Choice+	2.7	70.2	\$2.42	\$0.06	\$0.016	\$0.00	\$2.50	\$1,860.74	10
Hailey Shoemaker	406	1141	725	13.0	12.5	0.48	05.97	1090	Choice-	2.8	69.8	\$2.42	\$0.00	\$0.016	\$0.00	\$2.44	\$1,764.97	11
Luke Whitacre	403	1186	753	14.6	12.8	0.69	06.44	1111	Choice <sup>0</sup>	2.9	67.0	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$1,859.05	12
Lindsay Zirkle	411	1346	855	13.3	14.1	0.33	06.66	1121	Choice <sup>0</sup>	2.8	72.7	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$2,109.85	13
John-Robert Helsley	379	1254	796	13.0	13.4	0.40	07.69	1165	Choice <sup>0</sup>	2.9	71.2	\$2.42	\$0.03	\$0.016	\$0.00	\$2.47	\$1,965.64	15
Blake Dysart	407	1143	726	11.5	12.5	0.30	04.76	1031	Choice-	2.8	72.2	\$2.42	\$0.00	\$0.016	\$0.00	\$2.44	\$1,768.06	14
Kara Hockman	404	1396	886	14.8	14.4	0.58	08.74	1206	Choice+	3.1	69.0	\$2.42	\$0.06	\$0.000	\$0.00	\$2.48	\$2,198.42	16
Walker Bowman	396	1215	772	13.7	13.1	0.56	07.77	1168	Choice <sup>0</sup>	3.0	68.8	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,892.17	17
Isaac Rhodes	382	1293	821	14.5	13.7	0.61	05.38	1062	Choice -	3.0	68.3	\$2.42	\$0.00	\$0.000	\$0.00	\$2.42	\$1,986.95	18
Kyle Lutz	414	1398	888	15.9	14.5	0.71	06.98	1135	Choice <sup>0</sup>	3.1	67.3	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,177.16	19
Kennedy Whetzel	419	1362	865	15.0	14.2	0.70	06.77	1126	Choice <sup>0</sup>	3.2	67.0	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,121.09	20
Jenna Kibler	415	1349	857	15.0	14.1	0.75	08.28	1189	Choice <sup>0</sup>	3.3	66.1	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,100.85	21
Jenna Kibler	416	1348	856	12.8	14.1	0.40	05.80	1082	Choice-	3.1	71.1	\$2.42	\$0.00	\$0.000	\$0.00	\$2.42	\$2,071.47	23
Blake Dysart	408	1035	657	09.9	11.7	0.28	04.47	1016	Choice-	3.0	71.7	\$2.42	\$0.00	\$0.000	\$0.00	\$2.42	\$1,590.48	22
Alex Neff	375	1266	804	12.8	13.4	0.42	07.91	1174	Choice <sup>0</sup>	3.0	70.8	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,971.59	24
Andrew Rhodes	383	1375	873	14.1	14.3	0.58	07.17	1143	Choice <sup>0</sup>	3.3	68.6	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,141.34	25
Tiffany Heishman	835	1162	738	11.9	12.7	0.51	06.76	1126	Choice <sup>0</sup>	3.3	68.7	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,809.63	26
Reagan Bowman	397	1365	867	13.8	14.2	0.63	06.97	1135	Choice <sup>0</sup>	3.4	67.6	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,125.77	27
Andrew Rhodes	384	1143	726	11.7	12.5	0.58	06.73	1124	Choice <sup>0</sup>	3.5	67.3	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,780.04	28
Isaac Rhodes	385	1359	863	14.1	14.2	0.74	05.60	1072	Choice -	3.6	65.8	\$2.42	\$0.00	\$0.000	\$0.00	\$2.42	\$2,088.38	29
William Garrett Coffey	386	1365	867	11.9	14.2	0.48	06.34	1107	Choice <sup>v</sup>	3.7	69.2	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$2,125.77	30
Tiffany Heishman	837	1165	740	11.5	12.7	0.64	08.09	1181	Choice <sup>0</sup>	3.7	66.1	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,814.30	31
Garrett Cummins	395	1428	907	13.5	14.7	0.66	06.13	1097	Choice-	3.8	66.9	\$2.42	\$0.00	\$0.000	-\$0.04	\$2.38	\$2,158.14	32
Ethan Neff	376	1498	951	14.0	15.2	0.70	06.43	1111	Choice <sup>0</sup>	3.9	66.5	\$2.42	\$0.03	\$0.000	-\$0.04	\$2.41	\$2,294.84	DQ
Walker Bowman	398	1228	780	11.9	13.2	0.70	08.31	1190	Choice <sup>0</sup>	3.9	65.3	\$2.42	\$0.03	\$0.000	\$0.00	\$2.45	\$1,912.41	33
Brett Poling	392	1109	704	11.4	12.3	0.20	03.60	969	Select +	2.5	73.9	\$2.42	-\$0.05	\$0.016	\$0.00	\$2.39	\$1,682.02	34
Elizabeth Rhodes	374	1098	697	11.4	12.2	0.32	03.85	983	Select +	2.8	71.8	\$2.42	-\$0.05	\$0.016	\$0.00	\$2.39	\$1,665.33	35