

Polk County Youth Fair, Inc.

January 23-January 29, 2016

Grand Champion Commercial Market Steer

Maggie Clark - Kathleen Sr FFA

Reserve Champion Commercial Market Steer

Reed Fussell - Bartow Sr FFA

Grand Champion Open Market Steer

Kagen Long - Farm Fresh 4-H

Reserve Champion Open Market Steer

Jacob Adrian - George Jenkins Sr FFA

Grand Champion Carcass Contest Winner

Maggie Clark - Kathleen Sr FFA

Reserve Champion Carcass Contest Winner

Samantha Riner - Lake Wales Sr FFA

Showmanship Winners:

Junior Division

Gabriel Chandley - Lucky A's 4-H

Intermediate Division

Kaydee Clark - Hoof-u-Horn 4-H

Senior Division

Kendall Locke - Lake Gibson Sr FFA

Commercial Steer Class Winners:

Class 1 - Ansleigh Evans - Mulberry Middle FFA

Class 2 - Chase Deboard - Ft. Meade Middle/Sr FFA

Class 3 - Alisa Bean - Lake Gibson Sr FFA

Class 4 - Maggie Clark Kathleen Sr FFA

Class 4 - Reed Fussell - Bartow Sr FFA

Open Steer Class Winners:

Class 1 - Kelsey Steller - George Jenkins Sr FFA

Class 2 - Kimberly Harwell - Lake Gibson Middle FFA

Class 3 - Jacob Adrian - George Jenkins Sr FFA

Class 4 - Kagen Long - Farm Fresh 4-H



The following is a brief explanation of the values reported on the PCYF Market Steer Carcass Contest Results. For more information about ultrasound and evaluating carcass merit of youth market cattle, please refer to UF/IFAS Publication #AN279 which can be found online at www.edis.ifas.ufl.edu/an279 or by contacting your Extension Livestock Agent at (863) 534-1048 or bccarlis@ufl.edu.

HCW<lbs = Hot Carcass Weight. The hot or un-chilled weight of the steer in pounds after slaughter and after the hide, head, intestinal tract, and internal organs have been removed. On average, the HCW is approximately 62% of his live weight. Price discounts usually occur for carcasses weighing fewer than 550 pounds or more than 900 pounds.

REA,in² = Ribeye Area in inches squared. This is the total area of the ribeye muscle between the 12th and 13th ribs. The tech used the ultrasound device to generate a high-quality image of the ribeye. The computer is used to trace the ribeye and generate a measurement. The measurement is expressed in square inches. Ribeye area is used in the equation to determine yield grade.

Fat thk,in = Fat thickness in inches. Fat thickness is a measure of the thickness of external fat on a carcass. This measurement is also taken between the 12th and 13th rib at a point three-fourths of the ribeye length from the chine bone (vertebrate). When the tech used the ultrasound device to generate the high-quality image, the computer was measured the fat thickness three-fourths the length of the ribeye from the spine of the animal. Fat thickness is a major influence determining yield grade of the carcass.

%KPH = Percent of Kidney, Pelvic and Heart Fat, or internal fat. %KPH is as a percentage of the HCW. The average KPH percentage for fed cattle was 2.3% in the 2005 National Beef Quality Audit. The KPH percentage used for the Carcass Contest calculations is 2.5%. %KPH is used in the yield grade equation.

IMF,% = Percent of Intra-Muscular Fat. Another image is scanned by the ultrasound tech of the ribeye muscle between the 12th and 13th to measure intramuscular fat within the ribeye. The computer interprets the image to predict the percentage of intramuscular fat. The percentage of intramuscular fat within the ribeye associates with an approximate USDA marbling score. Degree of marbling is the primary determinant of quality grade.

Marbling = Marbling or Intramuscular Fat. Marbling is the distribution of fat within the lean of the ribeye muscle. The amount of intramuscular fat is the driving force in consumer eating satisfaction of beef tenderness, juiciness, and flavor. If the animal is less than 30 months of age, as market steer projects must be at the end of the project, USDA marbling score directly associates with USDA quality grade (Table 1; USDA-AMS 1997).

Table 1. Estimated carcass USDA marbling score from live cattle ultrasound.

Ultrasound intramuscular fat, %	USDA marbling score	USDA quality grade
≤ 1.9	Traces (TR) 00-90	Standard +
2.0-3.0	Slight (SL) 00-40	Select -
3.1-3.9	Slight (SL+) 50-90	Select +
4.0-5.5	Small (SM) 00-90	Choice -
5.6-6.9	Modest (MT) 00-90	Choice o
7.0-8.5	Moderate (MD) 00-90	Choice +
8.6-9.9	Slightly Ab (SLAB) 00-90	Prime -
10.0+	Mod Ab (MAB) 00-90	Prime o

Qual. Grd = Quality Grade. A quality grade is an evaluation of the factors that influence beef tenderness, juiciness and flavor, or eating quality. Quality grades are based on degree of marbling and degree of carcass maturity. Carcass maturity groups are ranked from A to E and refer to the age of the animal. Maturity group A cattle are estimated to be from 9 to 30 months of age at slaughter.

Yield Grd = Yield Grade. Yield grade is an estimate of the amount of boneless, closely trimmed, retail cuts from the round, loin, rib, and chuck. Yield grades are expressed as numeric scores of 1, 2, 3, 4, and 5. Yield grade 1 carcasses are expected to have the greatest percentage of boneless, closely trimmed, retail cuts. Yield grade 5 carcasses would have the lowest percentage of boneless, closely trimmed, retail cuts.

2016 POLK COUNTY YOUTH FAIR STEER CONTEST

Anim #	Live Wt,lb	HCW<lbs	REA,in2	Fat thk,in	%KPH	IMF,%	Marbling	Qual. Gr	Yield Grd	Placing
111	1292	801	17.3	0.7	2.5	4.9 SM	C-	2.3		
32	1200	744	15.0	0.54	2.5	4.6 SM	C-	2.4		3
127	1180	732	12.8	0.38	2.5	4.4 SM	C-	2.6		5
37	1238	768	15.7	0.43	2.5	4.3 SM	C-	2.0		1
38	1298	805	15.2	0.56	2.5	4.1 SM	C-	2.6		4
28	1228	761	13.4	0.33	2.5	4.0 SM	C-	2.4		2
103	1182	733	14.2	0.54	2.5	3.9 SL+	SE+	2.6		
13	1210	750	14.0	0.39	2.5	3.8 SL+	SE+	2.4		
116	1080	670	16.1	0.34	2.5	3.7 SL+	SE+	1.2		
113	1346	835	15.3	0.58	2.5	3.5 SL+	SE+	2.7		
12	1334	827	15.3	0.5	2.5	3.5 SL+	SE+	2.5		
23	1184	734	12.5	0.37	2.5	3.4 SL+	SE+	2.7		
36	1360	843	14.3	0.47	2.5	3.3 SL+	SE+	2.8		
149	1138	706	14.1	0.32	2.5	3.3 SL+	SE+	2.0		
108	1386	859	17.1	0.43	2.5	3.3 SL+	SE+	1.9		
21	1248	774	14.2	0.72	2.5	3.3 SL+	SE+	3.2		
40	1084	672	12.5	0.29	2.5	3.2 SL+	SE+	2.3		
119	1032	640	13.0	0.25	2.5	3.2 SL+	SE+	1.9		
10	1132	702	14.3	0.41	2.5	3.2 SL+	SE+	2.1		
34	1138	706	13.6	0.62	2.5	3.2 SL+	SE+	2.9		
29	1320	818	14.5	0.46	2.5	3.2 SL+	SE+	2.6		
50	1122	696	12.5	0.4	2.5	3.2 SL+	SE+	2.6		
102	1226	760	16.3	0.64	2.5	3.2 SL+	SE+	2.3		
17	1082	671	12.7	0.28	2.5	3.1 SL+	SE+	2.2		
126	1300	806	14.3	0.46	2.5	3.0 SL+	SE+	2.6		
114	1295	803	18.6	0.67	2.5	3.0 SL+	SE+	1.8		
125	1132	702	14.4	0.45	2.5	3.0 SL+	SE+	2.2		
35	1422	882	16.2	0.65	2.5	3.0 SL+	SE+	2.8		
30	1142	708	13.3	0.46	2.5	3.0 SL+	SE+	2.6		
106	1124	697	13.6	0.44	2.5	2.9 SL	SE	2.4		
15	1300	806	15.5	0.58	2.5	2.9 SL	SE	2.5		
11	1194	740	14.2	0.37	2.5	2.9 SL	SE	2.2		
27	1096	680	14.2	0.45	2.5	2.8 SL	SE	2.2		
31	1236	766	13.9	0.5	2.5	2.7 SL	SE	2.7		
42	1104	684	12.8	0.27	2.5	2.7 SL	SE	2.2		
107	1298	805	15.7	0.33	2.5	2.7 SL	SE	1.8		
101	1094	678	12.6	0.56	2.5	2.6 SL	SE	3.0		
112	1194	740	14.5	0.43	2.5	2.6 SL	SE	2.3		
44	1088	675	12.9	0.22	2.5	2.6 SL	SE	2.0		
8	1152	714	12.2	0.35	2.5	2.6 SL	SE	2.7		
109	1000	620	11.9	0.29	2.5	2.5 SL	SE	2.3		
104	1020	632	11.1	0.24	2.5	2.5 SL	SE	2.5		
9	1202	745	12.7	0.35	2.5	2.4 SL	SE	2.6		
120	1288	799	14.6	0.32	2.5	2.4 SL	SE	2.2		
117	1170	725	13.4	0.6	2.5	2.4 SL	SE	3.0		
128	1198	743	12.7	0.3	2.5	2.4 SL	SE	2.5		
122	1140	707	13.7	0.38	2.5	2.4 SL	SE	2.3		
110	1280	794	13.9	0.34	2.5	2.3 SL	SE	2.4		
115	1170	725	13.7	0.53	2.5	2.3 SL	SE	2.7		

ASSUMES A 62% DRESSING PERCENTAGE AND 2.5% KPH FAT

2016 Market Steer Sale Order

Polk County Youth Fair, Inc.

Friday, January 29, 2016

Sale #	Tag #	Tie #	Exhibitor Name	Club	Breed	Wgt	Bid	Buyer
101	37	48	Maggie Clark	Kathleen Senior FFA	Grape Hammock	1238		
102	114	83	Kagen Long	Farm Fresh 4-H	Charolais x	1296		
103	12	37	Reed Fussell	Bartow Senior FFA	Fussell Farms	1334		
104	120	75	Jacob Adrian	George Jenkins Senior FFA	Maine x	1288		
105	28	44	Samantha Riner	Lake Wales Senior FFA	Grape Hammock	1226		
106	29	33	Gabriel Chandley	Lucky A's 4-H Club	Grape Hammock	1320		
107	11	50	Kaydee Clark	Hoof-N-Horn 4-H	Fussell Farms	1194		
108	115	84	Kendall Locke	Lake Gibson Senior FFA	Angus x	1170		
109	27	58	Ansleigh Evans	Mulberry Middle FFA	G7 Ranch	1096		
110	119	65	Kelsey Steller	George Jenkins Senior FFA	Maine x	1034		
111	8	49	Chase Deboard	Ft Meade Middle/Senior FFA	Lightsey Cattle	1152		
112	125	68	Kimberly Harwell	Lake Gibson Middle FFA	Maine x	1132		
113	23	47	Alisa Bean	Lake Gibson Senior FFA	G7 Ranch	1184		
114	17	42	Tevin Ashwood	Lake Wales Senior FFA	Fussell Farms	1082		
115	116	74	Jesse Bibby	Hoof-N-Horn 4-H	Angus x	1080		
116	10	39	Mikenna Thomas	Lake Wales Senior FFA	Lightsey Cattle	1132		
117	9	45	Gage Caro	Lake Wales Senior FFA	Lightsey Cattle	1202		
118	127	77	Kathryn Springfield	Frostproof Middle/Senior FFA	Maine x	1188		
119	38	41	Courtney Lamoureux	Bartow Senior FFA	Grape Hammock	1298		
120	126	71	Katie Harwell	Kathleen Senior FFA	Maine x	1300		
121	35	34	Allison Briggs	Frostproof Middle/Senior FFA	Grape Hammock	1422		
122	106	80	Chad Reid	Kathleen Senior FFA	Simmental x	1124		
123	30	59	Kaleigh Evans	Mulberry Senior FFA	Grape Hammock	1142		
124	122	72	Tristin Rayborn	Auburndale Senior FFA	Angus x	1140		
125	32	40	Madison Mastro	Dundee Ridge Academy FFA	Grape Hammock	1200		
126	150	73	Sydney Bracknell	George Jenkins Senior FFA	Maine x	1226		
127	111	79	Morgan O'Bryan	Dream Catchers 4-H	Maine x	1292		

Sale #	Tag #	Tie #	Exhibitor Name	Club	Breed	Wgt	Bid	Buyer
128	36	32	Peyton Chandley	Lucky A's 4-H Club	Grape Hammock	1360		
129	101	86	Jenna Thompson	Kathleen Middle FFA	Maine x	1094		
130	50	52	Kyle Lay	George Jenkins Senior FFA	D C Cattle	1122		
131	121	66	Genevieve Bajsa	George Jenkins Senior FFA	Maine x	1138		
132	110	82	Marissa Dawes	Frostproof Middle/Senior FFA	Charolais x	1280		
133	108	81	Hannah Cline	Polk City 4-H	Maine x	1386		
134	34	30	Madison Roberts	Bartow Senior FFA	Grape Hammock	1138		
135	13	51	Cody Clark	Kathleen Senior FFA	Fussell Farms	1210		
136	112	78	Hannah Scionti	Kathleen Senior FFA	Charolais x	1194		
137	113	85	Blair Buchanon	Kathleen Senior FFA	Maine x	1346		
138	15	38	Stephany N Ruff	Dundee Ridge Academy FFA	Fussell Farms	1300		
139	42	46	Katlyn Riner	Lake Wales Senior FFA	D C Cattle	1104		
140	31	31	Hunter Roberts	Southern Variety 4-H	Grape Hammock	1236		
141	109	87	Shelby Carmichael	Mulberry Senior FFA	Hereford x	1000		
142	117	76	Hunter Dupre	Kathleen Senior FFA	Simmental x	1170		
143	21	43	Kassidy Rewis	Bartow Senior FFA	G7 Ranch	1248		
144	104	89	Taylor Harris	Mulberry Senior FFA	Brangus x	1020		
145	103	88	Timothy Chauncey	Mulberry Senior FFA	Brangus x	1182		
146	128	67	Courtney Fox	Winter Haven Senior FFA	Angus x	1196		
147	107	60	Clay James	Auburndale Senior FFA	Charolais x	1298		
148	40	36	Lucas Albritton	Southern Variety 4-H	D C Cattle	1084		
149	44	35	Riley Albritton	Southern Variety 4-H	D C Cattle	1088		

49 Records

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