

Fdlt Tag	Donor Name	Sire	Breed of Sire	Breed of Dam	Individual Birth Date	Days of Age	IA Del Wt 11/4/14	On Test Weight 11/11/14	Weight 11/25/14	Re-Implant Weight 1/28/15	Est. Final Fdlt Wt.	4 % Shrunken Live Wt	Warm Up ADG	Overall ADG using 4% Shrink	ADG Ratio	On-Test ADG using 4% Shrink	ADG Ratio
2901	Sebetka Farms-Marcel, Susie, Matt & Lester Sebetka	Iron Mountain	AN	SM/CH-AN	24-Apr-14	376	562	660	672	974	1359	1305	14.00	4.10	103	3.71	91
2902	Bruce River		AN	CH-AN	28-Mar-14	403	782	796	880	1188	1682	1614	2.00	4.60	116	4.70	116
2903	Iowa Beef Breeds Council		SM	SM-AN			656	664	742	954	1343	1289	1.14	3.50	88	3.59	88
2904	John Rash/J&J Angus/Century Angus/Hardin Co Cattlemen		AN	AN	29-Mar-14	402	698	685	778	1040	1435	1378	-1.86	3.76	94	3.98	98
2905	Brad Kooima						738	740	840	1080	1481	1421	0.29	3.78	95	3.92	96
2906	Amana Farm		AN	SM-AN	11-Apr-14	389	706	740	734	1110	1581	1518	4.86	4.49	113	4.47	110
2907	Bob Butcher	Summitcrest Focus 2066	AN	AN	20-Mar-14	411	672	728	794	1076	1510	1449	8.00	4.30	108	4.15	102
2908	EasyFix Rubber				15-Mar-14	416	674	676	730	978	1354	1300	0.29	3.46	87	3.59	88
2909	Lee Co Cattlemen	OBCC Park Avenue	SM	SM	3-Mar-14	428	650	674	748	982	1383	1328	3.43	3.75	94	3.76	93
2910	Clay Co Cattlemen						590	580	672	926	1359	1305	-1.43	3.95	99	4.17	103
2911	Kossuth Co Cattlemen/Josh Roethler		AN	PZ			902	895	1004	1288	1695	1627	-1.00	4.00	101	4.21	104
2912	Henry Co Cattlemen/Mike Moothart		SM-AN	SM	1-Mar-14	430	756	786	866	1130	1461	1403	4.29	3.57	90	3.54	87
2913	Lyon & Sioux Co Cattlemen						752	762	846	1066	1539	1477	1.43	4.01	101	4.11	101
2914	Accu Steel, Inc						570	610	638	906	1364	1309	5.71	4.09	103	4.02	99
2915	Palo Alto Co Cattlemen	LSFR Hustler 21U	RA	RA-SM	5-May-14	365	560	555	615	900	1273	1222	-0.71	3.66	92	3.84	94
2916	Innovative Ag Svcs/River Valley Coop/QLF						652	650	738	1042	1452	1393	-0.29	4.10	103	4.27	105
2917	Crawford Co Cattlemen's Assoc/Denison Livestock Auction/Hawley Insurance		SM	AN	25-Mar-14	406	676	686	782	1088	1605	1541	1.43	4.78	120	4.92	121
2918	Holden's Maines & More/Greene Co Cattlemen	Iceman Sons	MA-X	MA	16-Feb-14	443	742	740	828	1076	1575	1512	-0.29	4.25	107	4.43	109
2919	Scott Cherne/Rob Medberry	Connealy Shrek 4242	AN	AN	1-Feb-14	458	730	790	838	1142			8.57				
2920	Polk Co Cattlemen	Dual Focus	SM	SMX	31-Mar-14	400	596	570	650	900	1267	1216	-3.71	3.43	86	3.71	91
2921	Cedar, Muscatine & Scott Co Cattlemen	Connealy Counselor	AN	AN-CHI	1-Feb-14	458	888	904	974	1272	1720	1652	2.29	4.22	106	4.30	106
2922	Rowe Farms		RA	RAX	10-May-14	360	550	540	586	844	1298	1246	-1.43	3.84	97	4.06	100
2923	Fremont/ Mills-Montgomery Co Cattlemen	BRP Prime Design R73 05	HF	AN	9-Mar-14	422	794	820	924	1186	1664	1597	3.71	4.44	112	4.47	110
2924	Steve & Trent Rehder/Kent & Sylvia Pruismann						760	760	854	1104	1583	1519	0.00	4.20	105	4.36	107
2925	Kossuth Co Cattlemen/Carl Bormann		SM	SM-AN	12-Feb-14	447	697	708	768	1014	1385	1330	1.57	3.50	88	3.57	88
2926	Jones/Dubuque/Deleware Co Cattlemen						794	772	796	1118	1633	1568	-3.14	4.27	107	4.57	113
2927	Creston Livestock Auction		RA		12-Mar-14	419	724	734	817	1076	1452	1393	1.43	3.70	93	3.79	93
2928	Nodaway Valley Feeders/Carson Feeders		RA		20-Mar-14	411	660	695	784	1114	1518	1457	5.00	4.40	111	4.38	108
2929	Johnson Family Farms		AN	SM-AN	15-Mar-14	416	830	870	960	1220	1643	1577	5.71	4.13	104	4.06	100
2930	Butler Co Cattlemen		AN	AN	24-May-14	346	500	500	558	772	1111	1067	0.00	3.13	79	3.26	80
2931	Mark & Cathie Segebart/Dan & Patti Muhlbauer/Diane Witt		RA	SM-AN	23-Apr-14	377	616	652	690	972			5.14				
2932	Fayette Co Cattlemen		SM	AN	15-Apr-14	385	644	650	750	972	1392	1336	0.86	3.82	96	3.94	97
2933	District 6 Cattlemen (Winneshie, Allamakee, Clayton, Fayette Co Cattlemen)	Hoover Dam	AN	AN			654	650	726	954	1432	1375	-0.57	3.98	100	4.17	103
2934	Bill & Tim Couser	Elm View New Frontier 1508	AN	AN	24-Feb-14	435	638	666	718	950	1361	1306	4.00	3.69	93	3.68	91
2935	Lance Schiele						536	546	615	875			1.43				
2936	District 14 Cattlemen (Marion, Warren & Jasper Co Cattlemen)/Tim Van Roekel		Comm	Comm	1-Mar-14	430	764	800	890	1168	1665	1599	5.14	4.61	116	4.59	113
2937	Dummermuth Farms/Bloomington Livestock Exchange		SM-AN	AN	21-Mar-14	410	660	650	800	1088	1558	1496	-1.43	4.62	116	4.86	120
2938	Adams Co Cattlemen		AN	ANX	21-Mar-14	410	640	668	728	1038	1440	1383	4.00	4.10	103	4.11	101
2939	Jefferson Co Youth Beef Team	Bedwell Charolais bull	CH	AN	16-Mar-14	415	778	780	832	1046	1492	1432	0.29	3.62	91	3.75	92
2940	360 Feeds-West Central/QLF	Connealy Confidence 0100	AN	AN	13-Feb-14	446	644	640	704	1002	1385	1330	-0.57	3.79	95	3.96	98
2941	Customized Cattle Solutions/Kennedy Cattle Co/Pancosma				2-Mar-14	429	794	826	940	1192	1620	1555	4.57	4.21	106	4.19	103
2942	DMACC Agribusiness	Leachman White Gold P002X	CH	RAX	20-Mar-14	411	644	636	694	988	1392	1336	-1.14	3.82	96	4.02	99
2943	Loonan Stock Farm & Miller Farm	Hustler	RA	RA-SM	1-Feb-14	458	825	874	930	1244	1673	1607	7.00	4.32	109	4.21	104
2944	Tom Rooney/Justin Robbins/Aaron Amstutz/Doug Hawn	115 Bon View	AN	AN	21-Mar-14	410	700	618	766	1168	1544	1482	-11.71	4.32	109	4.97	122
2945	John Schuler/Werner Family Angus/Dave Hart/Rubel Livestock Trucking	H A Image Maker 0415	AN	AN	15-Mar-14	416	730	776	820	1058	1338	1285	6.57	3.06	77	2.92	72
2946	Clinton & Jackson Co Cattlemen	Firewater son	CH	HF/AN	5-Mar-14	426	770	780	870	1110	1526	1465	1.43	3.84	97	3.94	97
2947	Belgian Acres/Maquoketa Livestock				15-Mar-14	416	670	680	744	1022	1385	1330	1.43	3.64	92	3.73	92
2948	Dallmeyer Farms						720	740	832	1130	1520	1459	2.86	4.08	103	4.13	102
2949	Steve Streif & Sons Bull Sales/Mineral Creek						660	670	762	1046	1513	1453	1.43	4.38	110	4.50	111
2950	Shelby Co Cattlemen		CH	RA	26-Mar-14	405	670	718	724	1010	1385	1330	6.86	3.64	92	3.52	87
2951	Custom Precast		SM-AN	SM-AN	8-Mar-14	423	830	852	916	1190	1662	1596	3.14	4.23	106	4.27	105
2952	Collison Embryo & Vet/Lytton Farm Equipment/Mike Sorensen	Elm Views New Frontier 1R	AN	ANX	27-Feb-14	432	660	600	764	1048	1482	1423	-8.57	4.22	106	4.73	116
2953	Hibbs Farms-Mosher Angus		SM-AN	SM-AN	25-Apr-14	375	700	706	808	974	1333	1280	0.86	3.20	81	3.30	81

Fdlr Tag	Donor Name	Sire	Breed of Sire	Breed of Dam	Individual Birth Date	Days of Age	IA Del Wt 11/4/14	On Test Weight 11/11/14	Weight 11/25/14	Re-Implant Weight 1/28/15	Est. Final Fdlr Wt.	4 % Shrunk Live Wt	Warm Up ADG	Overall ADG using 4% Shrink	ADG Ratio	On-Test ADG using 4% Shrink	ADG Ratio
2954	Linn Co Cattlemen	Plattmere Weigh Up K360	AN	AN	8-Apr-14	392	730	770	848	1110	1507	1446	5.71	3.96	99	3.89	96
2955	Sid Wellman/Dan Delaney	Brown JYJ Redemption Y1334	RA	SM-AN	11-Mar-14	420	620	652	758	1050	1400	1344	4.57	4.00	100	3.98	98
2956	Bloomfield Livestock & Sinclair Tractor						641	680	704	1000	1419	1362	5.57	3.99	100	3.92	97
2957	Davis Co Cattlemen						650	700	784	1066	1490	1431	7.14	4.31	108	4.20	103
	57 Hd Average				18-Mar-14	413	692	706		1053	1475	1416	2.06	3.98	100	4.06	100
	Minimum				1-Feb-14	346	500	500		772	1111	1067	-11.71	3.06	77	2.92	72
	Maximum				24-May-14	458	902	904		1288	1720	1652	14.00	4.78	120	4.97	122

Fdlt Tag	WT/Day of Age	WPDA Ratio	Black Hided	Hot Carcass Wt.	Dress % Est Fdlt Wt.	Fat Cover	Ribeye Area	REA/c wt	% KPH	Yield Grade	USDA YG	% Retail Product	Marbling Score	Quality Grade	Defects	Base Carcass Price, \$/CWT	Yield Grade Prem	CAB Prem	Carcass Price, \$/cwt.	Initial Ranking End Product Value	Rank Adj for REA and Gain	Adjusted Rank	Final Ranking End Product Value	Retail Value/Day on Test	RVDOF Rank	Retail Value/Day of Age	RVDOA Rank
2954	3.84	108	Yes	930	64.3%	0.70	13.5	1.45	3.0	4.06	4	59.17	MT20	Choice		\$249.50		\$8.00	\$257.50	13	Minus 3	16	14	\$6.891	45	\$5.648	15
2955	3.33	93	Yes	864	64.3%	0.50	13.5	1.56	2.5	3.21	3	62.67	SM80	Choice -		\$257.50			\$257.50	16		16	15	\$7.282	30	\$5.187	29
2956			Yes	876	64.3%	0.40	16.3	1.86	2.5	2.11	2	66.94	SM20	Choice -		\$257.50	\$2.50		\$260.00	9		9	8	\$7.801	19		
2957				920	64.3%	0.45	14.5	1.58	2.0	2.88	2	64.30	SM20	Choice -		\$257.50	\$2.50		\$260.00	12		12	12	\$7.986	14		
	3.57	100	76%	910	64.3%	0.53	14.4	1.59	2.4	3.14	2.7	63.03	SM 19	66.7%	15.4%	\$253.07	\$3.76	\$8.00	\$254.99					\$7.455		\$5.464	
	3.10	87		686	64.3%	0.20	12.1	1.21	2.0	1.33	1.0	54.24	SL 10	Low Choice		\$222.50	35%	10%	\$222.50					\$5.578		\$4.373	
	4.17	117		1062	64.3%	1.05	17.6	2.11	3.0	5.44	5.0	70.23	MT 20	or Better		\$257.50	YG 1&2	CAB	\$265.50					\$8.890		\$6.557	

Steer Test Evaluation Formulas

For Tri-County Steer Carcass Futurity - Darrell Busby, Manager TCSCF Cooperative
53020 Hitchcock, Lewis, IA 51544 Tel 712-769-2600 Fax 712-769-2610

Black Hided = Yes indicates carcass was identified at packing plant as meeting live animal requirements for Certified Angus Beef program. Cattle are 51% or greater Angus and have beef conformation.

Hot Carcass Weight = Weight of carcass prior to entering cooler. The weight each entry is paid on. Carcasses are discounted below 550 lb. and over 1050 lb.

Dressing percent = Hot carcass weight / final live weight. Using full out-lot weights results in dressing percentages lower than dressing percentages calculated from off-truck weights or pencil-shrunk weights.

Fat Cover = Fat thickness as measured with a steel ruler. .20 of an inch is desired minimum to prevent cold toughening during cooling. Increased fat cover increases Yield Grade and lowers retail product. Our goal is to market a group of cattle with an average of .40 to .50 of fat cover.

Ribeye Area = Square inches of ribeye as measured with plastic grid. Ideal range is 12 to 14 sq. in. with 11 to 15 sq. in. being acceptable.

REA/cwt. = Ribeye Area / Hot carcass cwt. Indicator of muscling. Average is 1.71 sq. in./cwt. of hot carcass weight. Carcasses under 600 lb. with less than .30 of fat cover usually have high REA/cwt. values, whereas, carcasses with greater than .55 of fat cover usually have lower REA/cwt. values.

% KPH = estimate of percent kidney, pelvic and heart fat of hot carcass weight. A value of 2.5 % KPH for a 700 lb. carcass means the 17.5 lb. of the hot carcass weight was KPH.

Yield Grade = $2.5 + (2.5 * \text{Fat cover, inches}) + (0.2 * \% \text{ Kidney, pelvic \& heart fat}) + (0.0038 * \text{Hot carcass weight, lbs.}) - (0.32 * \text{Rib eye area, sq. in.})$. Yield Grade 1 is lean and Yield Grade is fat. Yield Grade of 2.05 and 2.95 would both be stamped YG 2.

USDA YG = the USDA Grader's Yield Grade determination. Use of instrument grading equipment and software has improved the accuracy of yield grades.

Percent Retail Product = $65.69 - (9.931 * \text{Fat cover, inches}) + (1.2259 * \text{Rib eye area, sq. in.}) - (1.29 * \% \text{ Kidney, pelvic \& heart fat}) - (0.013166 * \text{Hot Carcass Wt, lb.})$

Defects Include horns which cause bruising and trim loss. Estimated pounds of trim loss from bruising, contamination, or abscesses. Lung adhesions are an indication of respiratory disease, but when the episode occurred whether before or after delivery to the feedlot could not be determined. Previous data indicates steers with lung adhesions gain .43 lb./day or 14% less than normal steers and cost of gain was 10% higher. Dark cutter is a carcass with dark colored lean due to stress more than 12 hours prior to harvest. Cattle are in an energy deficit situation.

Marbling Score as called by the USDA Grader.

Quality Grade as called by the USDA Grader and stamped on the carcass with his/her unique identification stamp.

Marbling Score is a major factor in Quality Grade. The table below explains the Marbling Score and Quality Grade abbreviations. The numbers range from 0 to 90 with 0 being the low end within a marbling score category and 90 being the high.

Marbling Score – Abr.	Marbling Score	Quality Grade – Abr.	Quality Grade
TR 0 to TR 90	Traces	Std +	Standard plus
SL 0 to 40	Slight 0 to 40	Select -	Select minus
SL 50 to 90	Slight 50 to 90	Select +	Select plus
SM 0 to 90	Small 0 to 90	Choice -	Choice minus
MT 0 to 90	Modest 0 to 90	Choice	Choice average
MOD 0 to 90	Moderate 0 to 90	Choice +	Choice plus
SLAB 0 to 90	Slightly Abundant 0 to 90	Prime -	Prime minus
MODAB 0 to 90	Moderately Abundant 0 to 90	Prime	Prime average
ABUD 0 to 90	Abundant 0 to 90	Prime +	Prime plus

Yield Grade Premium = The premium for YG 1 or YG 2 carcasses.

CAB Premium = USDA grader has determined carcass meets maturity, Yield Grade and marbling requirements to enter CAB program. Not all cattle receiving "A" and Average Choice or greater enter the program as the marbling may not be finely distributed as specified by the CAB program

Average Carcass Price \$/cwt. = Weighted average of carcass prices received for the two or three different harvest dates. Carcass prices are adjusted so all carcasses within the same quality grade and weight range receive the same price. In reality, the actual price for the same quality grade is usually different on the two harvest dates. The premiums and discounts for Yield Grade and carcass weight are averaged between the 2 or 3 harvest dates. Also the premiums for CAB and Prime are averaged between the 2 or 3 harvest dates. The average for the **Average Carcass Price** and the **Actual Carcass Price** are the same in an effort to remove carcass price for different harvest dates as a variable in the final ranking of the group.

Retail Value per Day On Test = ((Hot carcass wt. - (0.55 * On-test wt.)) * % Retail Product * (Carcass price, \$/lb./0.64))/Days on Feed

Constants: 0.55 is for 55% dressing percent for On-test wt. 0.64 is average % Retail Product for beef industry.

Correlation between **RVDOT** and profit in the feedlot is .88. The **RVDOT** formula is the best of five formulas in measuring feedlot profitability.

Retail Value per Day Of Age = (Hot carcass wt.) * % Retail Product * (Carcass price, \$/lb./0.64)/Days of Age

Correlation Table for 2014 Carcass Challenge Carcass and Ultrasound Data

Trait	Ultrasound 11/19/13	Ultrasound 1/28/14	Ultrasound 11/19/13 to 1/28/14
Fat Cover	.57	.89	.32
Marbling Score to IMF	.44	.66	.66
Ribeye Area	.68	.82	.76

END PRODUCT VALUE AWARD

REASON FOR AWARD

The goal of the cattle feeding industry is to by the most economically efficient methods maximize the genetic potential of individual animals to produce the safest, most nutritional and most desirable food product possible.

The rationale for the End Product Value Award is to educate beef producers on the importance of producing the most desirable premium food product possible. Beef producers are reminded in the BQA sessions that they are in the food business. They know they have to produce a safe, economical, nutritional and desirable product. There must be a demand for the industry's product for it to be a profitable industry. They are producing a premium priced product compared to other protein sources therefore the product has to be of premium quality to compete in the market place for the consumer dollar. This award will allow producers to learn what characteristics of meat quality and animal production determine the profitability and desirability of the consumer product that they are producing.

PROCEDURE

1st Value per lb (grid value per lb)

All ranking adjustments will be applied to the initial rankings then tie breakers will be applied.

Ranking Adjustments

- A. Any carcass with a REA less than 1.5 sq in per 100 pounds of hot carcass weight will be lowered three full ranks. Considered light muscled animal
- B. Animals with gains of less the 2.5 lbs per day will be lowered by five full ranks. Cannot produce even the most desirable product if it is not economically feasible
- C. Carcasses with excessive trimming will be lowered two full ranks. Will reduce total value of carcass and could reduce the desirability of individual cuts.

TIE BREAKERS

- 1st tie breaker Marbling score (USDA score)
- 2nd tie breaker Yield grade score (calculated yield grade score)
- 3rd tie breaker Retail value ranking (carcass contest ranking)

Adapted from Mills County 4-H Beef Carcass Program