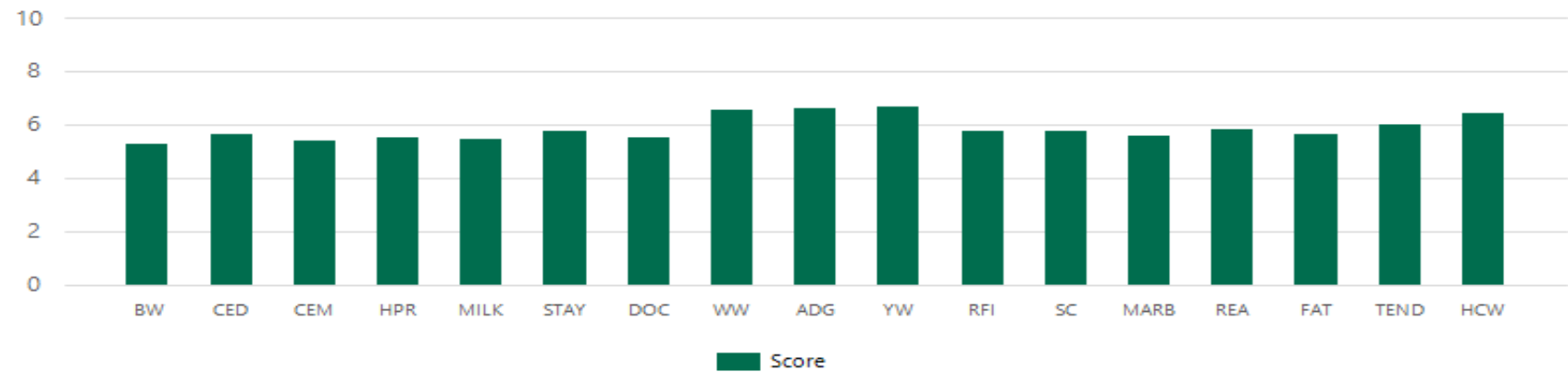


Detailed Report

Animal Information				Decision Indexes			Maternal							Production					Carcass				
Animal ID Number	Sample Barcode Number	Gender (M/F)	Breed	Igenity Maternal Index	Igenity Production Index	Igenity Terminal Index	BW	CED	CEM	HPR	MILK	STAY	DOC	WW	ADG	YW	RFI	SC	MARB	REA	FAT	TEND	HCW
39	NE05433380	M	OT	7.25	6.60	5.80	2	7	7	6	7	9	7	6	6	6	2	6	4	4	6	7	6
53	NE05433302	M	OT	7.05	6.50	4.90	2	10	9	6	5	9	5	6	7	6	8	5	6	5	7	7	5
54	NE05433297	M	OT	6.95	7.15	7.70	6	7	5	10	3	6	6	10	10	10	6	9	9	6	8	5	10
80	NE05433345	M	OT	6.85	6.50	5.65	5	7	9	8	4	7	7	6	7	6	5	7	7	5	6	7	5
27	NE05433334	M	OT	6.8	5.95	5.80	5	6	7	5	8	7	5	8	8	8	5	7	3	5	5	8	7
55	NE05433292	M	OT	6.6	6.05	5.25	3	7	7	3	5	9	7	6	5	6	2	2	2	5	4	6	5
17	NE05433322	M	OT	6.5	6.05	4.85	4	7	8	4	8	8	8	6	8	7	7	5	6	3	7	7	5
81	NE05433320	M	OT	6.45	7.40	7.40	7	6	6	5	4	8	5	8	8	7	5	4	6	10	4	8	8
74	NE05433398	M	OT	6.45	6.95	6.55	5	6	6	5	8	8	5	6	7	6	5	6	7	8	4	7	6
36	NE05433305	M	OT	6.45	6.65	7.15	5	6	6	7	6	5	3	9	8	9	6	9	7	8	6	10	8
44	NE05433389	M	OT	6.4	7.00	6.70	5	8	7	5	5	7	3	6	7	7	4	5	7	7	7	7	7
8	NE05433348	M	OT	6.4	6.45	6.50	7	6	6	6	7	6	6	9	8	9	8	7	8	6	7	5	8
47	NE05433280	M	OT	6.4	5.95	5.45	4	5	5	5	7	9	6	6	5	6	4	4	2	6	4	6	6
35	NE05433324	M	OT	6.35	6.75	7.60	2	8	7	8	6	4	8	6	6	6	4	7	8	6	7	7	9
64	NE05433343	M	OT	6.35	6.15	5.80	6	9	7	6	4	6	6	7	7	7	6	6	7	5	7	7	6
15	NE05433296	M	OT	6.3	6.25	6.40	4	6	6	10	5	5	6	7	8	8	7	7	9	5	7	6	7
50	NE05433364	M	OT	6.3	6.10	6.25	3	8	7	7	4	5	7	9	10	10	9	5	7	6	7	7	8
87	NE05433368	M	OT	6.3	6.00	7.05	6	6	6	8	5	4	7	9	9	10	6	7	5	7	7	4	10
21	NE05433342	M	OT	6.3	5.65	5.10	4	7	6	6	9	6	4	6	6	6	6	9	7	3	8	7	5
59	NE05433346	M	OT	6.25	6.40	6.30	6	9	8	7	4	5	5	7	8	8	8	5	9	5	7	7	7
76	NE05433366	M	OT	6.25	6.30	6.85	6	6	6	7	5	5	7	9	8	9	7	6	7	5	7	7	9
73	NE05433290	M	OT	6.2	6.20	6.30	3	8	7	7	6	5	4	6	7	7	6	7	7	8	7	3	7
58	NE05433318	M	OT	6.1	5.80	6.15	5	6	6	6	8	4	5	7	6	6	4	10	7	6	7	6	6
11	NE05433351	M	OT	6.1	5.50	5.50	8	5	6	8	3	6	7	8	8	8	7	5	5	6	4	4	6
45	NE05433373	M	OT	6.1	5.50	5.05	5	3	4	4	6	9	4	8	8	8	5	6	2	4	4	5	6
43	NE05433392	M	OT	6.05	6.05	5.85	6	5	5	8	6	6	6	7	9	8	7	7	7	6	7	9	6
57	NE05433314	M	OT	6.05	5.65	5.35	4	9	7	4	6	5	7	6	8	7	4	9	6	5	8	6	5
83	NE05433358	M	OT	6.05	5.65	5.90	6	4	5	6	4	7	5	7	6	7	3	5	3	4	4	4	7
18	NE05433354	M	OT	6.05	5.10	4.85	6	8	6	7	7	5	9	6	5	5	7	10	5	5	7	7	5
48	NE05433375	M	OT	6	5.85	6.05	3	7	6	8	3	5	7	7	8	8	6	8	6	5	7	8	7
25	NE05433321	M	OT	6	5.15	5.35	6	5	5	5	8	6	6	7	6	7	5	6	3	4	4	7	6
68	NE05433312	M	OT	5.95	6.20	6.35	8	3	3	8	6	7	6	7	8	7	5	5	7	6	6	3	7
26	NE05433369	M	OT	5.9	5.25	5.05	3	7	6	4	7	6	6	6	7	6	5	5	4	4	5	7	5
2	NE05433377	M	OT	5.85	6.00	6.50	6	3	4	7	7	6	7	7	7	8	5	4	6	7	4	4	7
4	NE05433357	M	OT	5.85	5.95	5.25	5	5	7	6	8	6	3	5	6	5	7	2	7	5	8	9	5
66	NE05433397	M	OT	5.85	5.35	5.45	3	5	5	6	7	6	3	6	5	6	5	3	4	5	5	5	6
67	NE05433347	M	OT	5.85	5.05	5.00	7	3	5	6	8	6	7	6	7	7	4	4	3	5	5	5	5
62	NE05433328	M	OT	5.8	6.70	6.50	6	6	8	6	3	6	4	7	8	8	9	6	8	7	7	6	8
14	NE05433323	M	OT	5.8	6.50	7.25	6	7	7	5	2	4	6	9	8	9	6	6	8	5	7	8	9
12	NE05433291	M	OT	5.8	5.75	5.10	3	8	5	3	6	7	5	6	7	7	5	5	5	7	8	4	5
38	NE05433349	M	OT	5.8	5.50	5.95	4	7	6	6	6	4	5	7	7	7	6	7	5	7	7	6	7
28	NE05433301	M	OT	5.8	5.40	5.05	3	7	6	6	6	6	5	4	5	4	4	4	4	5	5	10	4
69	NE05433303	M	OT	5.8	5.10	4.90	4	7	6	8	5	5	6	6	7	6	8	5	6	6	6	3	5
77	NE05433326	M	OT	5.75	6.15	7.05	6	4	4	7	6	5	5	8	7	8	6	6	6	7	6	6	9
9	NE05433308	M	OT	5.75	5.85	6.10	5	6	7	6	5	4	6	7	8	8	6	5	6	7	8	7	7
75	NE05433337	M	OT	5.75	5.75	6.00	8	6	5	6	7	5	5	7	7	7	7	7	8	3	7	6	7
63	NE05433283	M	OT	5.7	6.65	7.35	7	7	5	3	4	6	3	8	9	8	5	5	6	9	3	7	8
34	NE05433281	M	OT	5.7	6.15	6.85	8	2	3	7	6	6	7	8	8	8	5	5	6	6	5	7	8
72	NE05433306	M	OT	5.7	5.70	6.35	6	5	4	8	6	5	7	8	8	8	9	5	6	7	7	3	9
42	NE05433393	M	OT	5.7	5.55	5.90	3	7	6	4	5	5	6	7	7	7	5	6	5	5	6	4	7
33	NE05433285	M	OT	5.7	5.25	5.50	7	5	5	5	5	5	4	8	8	8	5	6	5	5	6	4	6
51	NE05433315	M	OT	5.65	6.55	6.35	4	6	5	4	7	8	4	4	5	4	5	5	6	5	5	7	7
20	NE05433325	M	OT	5.65	5.05	4.05	2	7	8	5	5	5	6	5	4	5	6	5	6	2	9	10	3
52	NE05433382	M	OT	5.65	4.80	4.15	4	7	8	7	4	6	7	3	4	4	6	6	2	8	3	4	3
24	NE05433390	M	OT	5.6	5.65	6.35	5	7	5	5	2	4	6	8	7	8	3	7	6	5	7	5	7

84	NE05433385	M	OT	5.6	5.60	5.55	7	4	4	6	3	7	6	8	5	6	7	4	5	7	4	3	6
82	NE05433327	M	OT	5.6	5.25	5.30	7	5	5	5	7	6	6	5	5	5	4	6	4	4	4	7	5
90	NE05433386	M	OT	5.55	6.90	7.65	5	6	5	4	2	5	4	9	9	9	5	5	7	10	7	7	9
19	NE05433311	M	OT	5.55	5.15	5.20	5	5	5	4	6	6	5	6	5	6	4	5	3	5	4	7	5
41	NE05433294	M	OT	5.5	5.85	6.60	8	5	4	6	4	4	5	10	9	10	8	8	8	5	7	9	8
70	NE05433298	M	OT	5.5	5.70	5.10	3	7	7	3	6	7	5	3	5	4	4	3	4	8	4	3	4
71	NE05433399	M	OT	5.5	5.55	5.60	6	3	4	6	5	7	5	6	6	6	5	4	4	6	4	4	6
5	NE05433304	M	OT	5.45	6.55	7.55	8	5	5	4	5	5	8	8	8	9	6	5	7	8	4	6	9
79	NE05433335	M	OT	5.45	5.85	5.40	4	8	7	4	4	5	7	6	6	6	7	3	7	7	8	8	5
16	NE05433295	M	OT	5.45	4.60	4.80	2	6	4	5	7	6	7	5	6	6	5	6	1	4	5	6	6
1	NE05433387	M	OT	5.4	5.80	7.10	7	5	5	5	8	4	6	6	7	7	5	6	5	9	2	4	8
13	NE05433336	M	OT	5.35	5.85	6.30	6	4	4	5	6	5	6	7	6	7	5	5	7	7	5	6	6
37	NE05433300	M	OT	5.35	5.85	6.15	6	4	3	8	5	6	5	6	6	6	7	7	6	6	6	9	7
89	NE05433394	M	OT	5.35	5.15	4.30	4	8	7	2	6	7	5	4	5	4	7	6	4	4	5	6	4
86	NE05433395	M	OT	5.3	6.00	6.20	7	3	3	3	8	7	5	6	6	6	4	6	5	6	4	9	6
78	NE05433330	M	OT	5.3	5.85	6.15	7	5	5	3	6	6	5	6	6	6	5	8	5	6	5	5	7
60	NE05433317	M	OT	5.25	5.85	6.20	1	8	6	5	4	5	5	6	7	7	9	6	6	6	6	8	8
10	NE05433379	M	OT	5.25	4.70	4.75	5	5	4	5	8	5	3	6	5	5	7	6	5	4	6	5	5
29	NE05433319	M	OT	5.2	5.70	5.85	8	3	3	5	3	7	7	7	7	7	5	6	5	3	6	7	7
88	NE05433340	M	OT	5.2	4.95	5.00	7	4	4	6	6	6	7	6	4	5	8	7	5	6	3	3	5
65	NE05433310	M	OT	5.15	5.65	5.35	6	4	5	4	5	7	6	5	5	5	6	8	6	3	6	4	6
6	NE05433372	M	OT	5.15	5.45	5.60	6	5	4	5	4	6	5	6	6	6	6	4	6	5	5	3	6
46	NE05433344	M	OT	5.15	4.75	4.95	6	5	5	8	5	4	4	4	4	4	5	3	6	5	5	3	4
22	NE05433361	M	OT	5.05	5.80	6.55	5	4	4	3	6	5	3	7	7	7	5	7	5	8	4	7	7
7	NE05433383	M	OT	5.05	5.45	6.00	8	4	5	6	5	4	6	7	7	7	8	7	6	6	6	9	7
23	NE05433282	M	OT	5	6.05	5.60	7	3	5	3	4	8	5	5	5	5	6	4	5	9	3	3	5
32	NE05433284	M	OT	5	5.20	4.65	5	5	5	3	7	7	6	4	4	4	7	6	5	6	4	3	4
30	NE05433331	M	OT	5	5.10	5.60	5	5	6	4	6	4	3	6	5	6	7	5	5	7	4	4	6
40	NE05433316	M	OT	4.95	5.80	6.60	6	3	3	6	3	4	6	8	7	8	5	5	8	6	7	6	7
61	NE05433309	M	OT	4.8	5.80	6.60	7	4	4	4	7	5	4	5	5	5	6	5	5	7	5	7	8
85	NE05433299	M	OT	4.7	4.50	4.80	6	5	3	5	4	4	6	6	5	5	5	5	4	6	6	8	4
49	NE05433381	M	OT	4.6	6.30	6.55	4	5	5	1	5	6	5	7	8	8	10	9	7	5	7	10	9
31	NE05433332	M	OT	4.5	4.60	5.85	5	4	4	6	4	3	6	4	3	4	3	4	4	6	3	1	6
56	NE05433329	M	OT	4.15	5.05	5.70	7	2	1	4	5	6	5	5	5	5	6	6	3	8	3	7	6
3	NE05433359	M	OT	4.15	4.80	5.75	7	4	4	3	5	3	4	6	6	6	7	5	6	7	4	3	6

Average Trait Value for All Animals



	Maternal							Production					Carcass				
	BW	CED	CEM	HPR	MILK	STAY	DOC	WW	ADG	YW	RFI	SC	MARB	REA	FAT	TEND	HCW
Overall Average	5.3	5.7	5.4	5.5	5.5	5.8	5.5	6.5	6.6	6.7	5.8	5.8	5.6	5.8	5.6	6.0	6.4

Additional Result Tests

Animal Information				Screening	
Animal ID Number	Sample Barcode Number	Gender (M/F)	Breed	Igenity BCHF Rank	BCHF Breeding Value
81	NE05433320	M	OT	5	0.139
54	NE05433297	M	OT	8	0.213
44	NE05433389	M	OT	6	0.166
74	NE05433398	M	OT	4	0.074
90	NE05433386	M	OT	8	0.212
35	NE05433324	M	OT	7	0.197
62	NE05433328	M	OT	8	0.225
36	NE05433305	M	OT	5	0.136
63	NE05433283	M	OT	6	0.159
39	NE05433380	M	OT	6	0.149
5	NE05433304	M	OT	4	0.094
51	NE05433315	M	OT	5	0.137
14	NE05433323	M	OT	6	0.165
53	NE05433302	M	OT	7	0.199
80	NE05433345	M	OT	6	0.175
8	NE05433348	M	OT	7	0.202
59	NE05433346	M	OT	7	0.183
49	NE05433381	M	OT	6	0.147
76	NE05433366	M	OT	7	0.187
15	NE05433296	M	OT	4	0.092
68	NE05433312	M	OT	8	0.235
73	NE05433290	M	OT	5	0.135
34	NE05433281	M	OT	7	0.205
64	NE05433343	M	OT	5	0.13
77	NE05433326	M	OT	6	0.166
50	NE05433364	M	OT	7	0.183
17	NE05433322	M	OT	5	0.123
23	NE05433282	M	OT	4	0.072
43	NE05433392	M	OT	6	0.176
55	NE05433292	M	OT	5	0.11
2	NE05433377	M	OT	3	0.069
86	NE05433395	M	OT	6	0.149
87	NE05433368	M	OT	7	0.197
27	NE05433334	M	OT	2	0.024
4	NE05433357	M	OT	6	0.141
47	NE05433280	M	OT	2	0.035
13	NE05433336	M	OT	6	0.153
37	NE05433300	M	OT	9	0.249
41	NE05433294	M	OT	8	0.22
48	NE05433375	M	OT	7	0.192
60	NE05433317	M	OT	6	0.168
78	NE05433330	M	OT	7	0.191
79	NE05433335	M	OT	8	0.23
9	NE05433308	M	OT	7	0.187
1	NE05433387	M	OT	4	0.101
22	NE05433361	M	OT	6	0.148
40	NE05433316	M	OT	6	0.164
58	NE05433318	M	OT	9	0.265
61	NE05433309	M	OT	5	0.11
12	NE05433291	M	OT	8	0.222

75	NE05433337	M	OT	8	0.245
29	NE05433319	M	OT	5	0.128
70	NE05433298	M	OT	3	0.063
72	NE05433306	M	OT	6	0.173
21	NE05433342	M	OT	7	0.178
24	NE05433390	M	OT	7	0.191
57	NE05433314	M	OT	7	0.185
65	NE05433310	M	OT	4	0.105
83	NE05433358	M	OT	4	0.084
84	NE05433385	M	OT	8	0.222
42	NE05433393	M	OT	7	0.211
71	NE05433399	M	OT	5	0.132
11	NE05433351	M	OT	6	0.163
38	NE05433349	M	OT	7	0.202
45	NE05433373	M	OT	3	0.056
6	NE05433372	M	OT	5	0.11
7	NE05433383	M	OT	7	0.177
28	NE05433301	M	OT	4	0.084
66	NE05433397	M	OT	5	0.115
26	NE05433369	M	OT	5	0.116
33	NE05433285	M	OT	6	0.168
82	NE05433327	M	OT	7	0.184
32	NE05433284	M	OT	4	0.094
19	NE05433311	M	OT	5	0.124
25	NE05433321	M	OT	5	0.107
89	NE05433394	M	OT	3	0.04
18	NE05433354	M	OT	6	0.173
30	NE05433331	M	OT	6	0.145
69	NE05433303	M	OT	5	0.118
20	NE05433325	M	OT	7	0.198
56	NE05433329	M	OT	4	0.095
67	NE05433347	M	OT	6	0.167
88	NE05433340	M	OT	3	0.047
3	NE05433359	M	OT	5	0.117
52	NE05433382	M	OT	5	0.12
46	NE05433344	M	OT	6	0.156
10	NE05433379	M	OT	5	0.13
16	NE05433295	M	OT	4	0.078
31	NE05433332	M	OT	5	0.108
85	NE05433299	M	OT	5	0.11

Definition				
Igenity Maternal Index (IMI)	This index is highly maternal and designed to select replacement heifers for fertility, longevity and higher weaned calf weight. It is a tool developed for producers who sell calves at weaning or after a short backgrounding period.	Docility (DOC)	Genetic potential to be calm or have calm offspring. Higher scores indicate a higher probability of acceptable disposition.	SELECT, MANAGE AND MARKET YOUR CATTLE • Select replacement heifers that move you ahead on your fertility, production and quality goals • Use DNA scores to manage breeding and production potential • Leverage data in calf marketing, bred heifer sales or retained-ownership decisions MATERNAL, PERFORMANCE AND CARCASS TRAITS • Pinpoint herd strengths and improvement areas • Easy-to-read 1 to 10 scoring • Predict traits heifers will pass on to their offspring INDEXES FOR SELECTION DECISIONS • Designed for multi-trait selection • Emphasize balanced, maternal or beef system qualities • Online tools to build your own index By submitting this form I acknowledge I have read and agree to this Disclaimer Neogen Disclaimer: Notwithstanding anything contained herein, the services provided hereunder are delivered “as-is.” Neogen warrants only that it will use commercially reasonable efforts to process the sample(s) provided herein to Neogen from you. Neogen provides no other warranty of any kind, whether express or implied, (including without limitation, all warranties of merchantability, fitness for a particular purpose, title, and noninfringement), and Neogen assumes no legal liability or responsibility for the accuracy, completeness, reliability or usefulness of any information disclosed, nor does Neogen represent that its use would not infringe privately owned rights. All results will be predicated on the assumption that each sample is obtained from a single cattle beast, and will be reported in association with the sample designations provided by you. Neogen assumes no responsibility for correctly identifying a particular animal as the source of any sample. In no event shall Neogen or its agents or officers be liable for any damages whatsoever (including without limitation, damages for loss of profits or business interruption, or any indirect, special, punitive, consequential or incidental damages) arising out of the use of the information and data obtained through the services provided hereunder, even if Neogen has been advised of the possibility of such damages.
Igenity Production Index (IPI)	The Igenity Production Index is well balanced for maternal, production and carcass progeny traits. It is designed for producers who raise their own heifers and want broad improvement across multiple traits.	Weaning Weight (WW)	Difference in average 205-day weight. The higher the number, the greater the weaning weight of calves.	
Igenity Terminal Index (ITI)	The Igenity Terminal index is specialized to identify animals with superior carcass performance. It places the highest emphasis on hot carcass weight, followed by marbling and rib eye area. There is, however, a negative emphasis placed on residual feed intake and fat thickness to control feed costs.	Average Daily Gain (ADG)	Based on pounds of gain per day. The Igenity score for Average Daily Gain (ADG) identifies genetic potential for post-weaning growth.	
Birth Weight (BW)	Higher scores equate to higher birthweight potential. Heavy calves can cause calving difficulty but also have more growth potential. (CED or CEM in selection indexes are preferred over BW alone).	Yearling Weight (YW)	Difference in average 365-day weight. The higher the number, the greater the yearling weight.	
Calving Ease Direct (CED)	Greater probability a calf will be born unassisted out of a first-calf heifer, including birth weight and shape of the calf. A higher value is greater calving ease.	Residual Feed Intake (RFI)	This is an indicator of feed efficiency. It is the difference in animals’ daily consumption of feed to achieve the same level of daily gain. Lower RFI indicates greater feed efficiency.	
Calving Ease Maternal (CEM)	Includes all genetic factors that impact a first-calf heifer’s ability to calve unassisted, such as pelvic area and her genetics for birth weight. Higher value is more calving ease.	Scrotal Circumference (SC)	Difference in scrotal size as an indication of fertility in replacement females. A higher score equates to higher scrotal size.	
Heifer Pregnancy Rate (HPR)	A heifer’s potential to conceive during breeding season, relative to other heifers. A higher value is desired.	Marbling (MARB)	USDA marbling score at a similar end-point. The higher the marbling, the higher the USDA quality grade.	
MILK	Pounds of calf weaning weight due to dam’s milk production. Optimize “milk” to the forage environment.	Ribeye Area (REA)	Ribeye area as measured on a carcass. REA estimates muscling in a beef carcass in square inches of ribeye at the 12th rib. Larger REA progeny have more muscle and higher percentage of retail product.	
Stayability (STAY)	The chance a heifer will remain in the herd as a productive cow until at least six years of age. A higher value is desired.	FAT	Backfat as measured on a carcass. Fat thickness is scored as depth of fat in inches over the ribeye muscle at the 12th rib. Higher fat thickness scores equate to lower lean yield.	
Hot Carcass Weight (HCW)	Unchilled weight of a beef carcass. The higher the HCW, the greater the dressing percentage.	Tenderness (TEND)	Genetic potential for beef tenderness (Warner-Bratzler Shear Force). A higher 1-10 score is more tender.	

Add-On Result Definition			
BreedSeek	BreedSeek identifies breed-specific markers present in individual animals to determine which breeds have the highest representation in that specific animal. BreedSeek reports breed composition for Primary and Secondary breeds of origin and %. BreedSeek results can be used for several different management and selection decisions - Market cattle of a specific breed composition - Identify what breeds have the highest presence in a commercial herd - Manage breeding groups to meet breed composition goals BreedSeek accurately reports breed composition for the following breeds: Angus, Akaushi, Brahman, Gelbvieh, Limousin, Hereford, Holstein, Nelore, Red Angus, Shorthorn, Simmental, and Wagyu *BreedSeek does not report breed percentages between 95%-99% and 1%-5%		
Horned Polled (HP)	Polled is a dominant trait. (Results do not reveal the presence or absence of scurs.) HH = Homozygous Horned HP = Heterozygous Horned/Polled PP = Homozygous Polled.	BCHF Breeding Rank	Indicates greater probability that an animal will pass down genes with increased association to Bovine Congestive Heart Failure (BCHF) in the feedlot. Higher scores equate to increased likelihood of risk within calves.
Coat Color (CC)	Coat color genes determine red or black coat. Black is the dominant trait. Results are reported as: Yes = Homozygous Black – all progeny will be black when mated to recessive red carrier animals. No = Not Homozygous Black – ½ progeny will be black and ½ will be red when mated to recessive red carrier animals.	Envigor Score	While not heritable, an Envigor score is a measure of heterosis in a crossbred animal. Higher value is an indication of increased hybrid vigor, thus increased fertility, longevity, and less susceptibility to health events.
Igenity Total Cow Index	As a combination of the IMI and Envigor scores, the ITCI is designed to select females that will not only excel because of increased heterosis and genetic potential, but also pass that same genetic potential on to their progeny.		