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Igenity® – Confident Selection

Neogen GeneSeek Operations
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Detailed Report

Animal Information						Results		
Animal ID	Electronic ID	Sample Barcode Number	Gender (M/F)	Breed	Batch ID	Igenity Terminal Index	Igenity Branded Tier	Igenity DOF Index
M69	840003260558505	AF09175890	M			7.90	Elite	7.63
M15	840003314789076	NE06457834	M			7.25	Elite	4.67
M17	840003314788976	AF09175891	M			7.20	Elite	7.26
M97	840003314788291	AF09175953	M			7.20	Elite	7.25
M44	840003314789168	AF09175928	M			7.15	Elite	7.27
M31	840003314788971	AF09175898	M			7.05	Elite	6.60
M43	840003314789103	AF09175937	M			6.90	Elite	7.03
M64	840003314789082	AF09175918	M			6.85	Elite	6.29
M89	840003314788946	AF09175932	M			6.85	Elite	5.11
M81	840003314788276	AF09175903	M			6.80	Elite	6.36
M86	840003314788640	AF09175973	M			6.80	Elite	7.47
M78	840003314788301	NE06457830	M			6.75	Elite	7.02
M11	840003305104407	AF09175908	M			6.70	Elite	5.64
M101	840003319332603	AF09175956	M			6.65	Elite	5.08
M51	840003314789213	AF09175922	M			6.65	Elite	4.43
M65	840003260545069	AF09175958	M			6.60	Elite	5.31
M66	840003314906267	AF09175948	M			6.60	Elite	6.92
M23	840003314789083	NE06457835	M			6.55	Elite	5.89
M5	840003314788986	AF09175909	M			6.55	Elite	6.51
M55	840003314789088	AF09175969	M			6.55	Elite	5.60
M52	840003314789108	AF09175894	M			6.50	Elite	7.88
M92	840003314788634	AF09175970	M			6.45	Elite	6.55
M104	840003314791825	AF09175979	M			6.40	Elite	7.08
M36	840003314788989	AF09175976	M			6.40	Elite	6.93
M74	840003314788811	AF09175911	M			6.40	Elite	5.30
M41	840003314789161	AF09175923	M			6.35	Elite	5.96
M42	840003314789095	AF09175941	M			6.35	Elite	6.65
M73	840003314788943	AF09175965	M			6.35	Elite	5.58
M99	840003314788632	AF09175910	M			6.35	Elite	7.36
M6	840003295070274	AF09175935	M			6.30	Elite	6.77
M9	840003298671016	AF09175963	M			6.30	Elite	5.64
M18	840003314789225	AF09175899	M			6.25	Elite	5.49
M61	840003314789222	AF09175901	M			6.25	Elite	6.61
M91	840003314788636	AF09175961	M			6.25	Elite	4.44
M21	840003314789104	NE06457832	M			6.20	Elite	6.69
M33	840003314789089	AF09175930	M			6.15	Elite	7.19
M37	840003298097802	AF09175977	M			6.15	Elite	6.98
M100	840003319332584	NE06457831	M			6.10	Elite	6.38
M49	840003314789220	NE06457838	M			6.10	Elite	5.05
M60	840003317429862	AF09175904	M			6.10	Elite	4.53
M63	840003306719863	AF09175895	M			6.10	Elite	5.74
M90	840003314789165	AF09175945	M			6.10	Elite	6.71
M95	840003314788975	AF09175974	M			6.10	Elite	7.78
M3	840003314788764	AF09175967	M			6.05	Elite	5.88
M46	840003314789079	AF09175936	M			6.05	Elite	5.77
M77	840003314789027	AF09175917	M			6.05	Elite	5.42
M8	840003314789086	AF09175962	M			6.05	Elite	5.69
M84	840003298258398	AF09175926	M			6.00	Elite	6.82
M19	840003314789160	NE06457836	M			5.95	Elite	6.03
M25	840003314788973	AF09175957	M			5.95	Elite	6.98
M30	840003314789163	AF09175913	M			5.95	Elite	6.28
M10	840003314788990	AF09175914	M			5.90	Premier	5.88
M27	840003314789158	AF09175952	M			5.90	Premier	4.74
M45	840003314789109	AF09175955	M			5.85	Premier	6.78
M96	840003314788236	AF09175902	M			5.85	Premier	7.43
M32	840003314789097	AF09175966	M			5.80	Premier	5.76
M68	840003314789084	AF09175949	M			5.80	Premier	6.96
M98	840003314788237	AF09175968	M			5.80	Premier	7.57
M34	840003314789090	NE06457833	M			5.75	Premier	5.32
M57	840003314789151	AF09175944	M			5.75	Premier	4.44
M67	840003314789230	AF09175950	M			5.70	Premier	6.09
M58	840003314789073	AF09175964	M			5.65	Premier	6.42
M72	840003314788889	AF09175919	M			5.65	Premier	5.94
M102	840003314788639	AF09175942	M			5.60	Premier	5.82
M103	840003314788893	AF09175907	M			5.60	Premier	4.07
M39	840003314789100	AF09175912	M			5.60	Premier	5.14
M13	840003297707368	AF09175951	M			5.55	Premier	5.82
M26	840003314789215	AF09175940	M			5.55	Premier	6.31
M80	840003314788297	AF09175924	M			5.55	Premier	5.92
M76	840003314789016	AF09175971	M			5.50	Premier	5.07
M16	840003314789075	AF09175896	M			5.45	Choice	6.28
M47	840003314789101	AF09175959	M			5.45	Choice	6.76
M79	840003314788296	AF09175960	M			5.45	Choice	6.92
M83	840003314788231	AF09175893	M			5.45	Choice	4.67
M48	840003314789099	AF09175943	M			5.40	Choice	6.02
M53	840003314789221	AF09175889	M			5.35	Choice	6.59
M20	840003314789093	AF09175938	M			5.30	Choice	6.02
M24	840003311733882	AF09175916	M			5.25	Choice	3.93
M14	840003314789159	AF09175927	M			5.20	Choice	6.31
M1	840003314790448	AF09175947	M			5.15	Choice	5.24
M50	840003314789216	AF09175892	M			5.15	Choice	4.48
M54	840003314789078	AF09175905	M			5.15	Choice	6.49
M71	840003314788958	AF09175939	M			5.15	Choice	5.59
M88	840003314788645	AF09175931	M			5.15	Choice	4.43
M35	840003314788974	AF09175946	M			5.10	Choice	5.63
M4	840003314790644	AF09175921	M			5.10	Choice	6.28
M93	840003314789248	AF09175975	M			5.00	Choice	7.31
M2	840003314788752	AF09175934	M			4.95	Choice	6.08
M85	840003275510561	AF09175925	M			4.90	Tested	5.26
M22	840003314789074	AF09175954	M			4.85	Tested	6.27
M38	840003314789228	AF09175920	M			4.80	Tested	5.22
M105	840003314898215	AF09175980	M			4.65	Tested	5.49
M82	840003314788254	AF09175915	M			4.65	Tested	4.27
M94	840003314788246	AF09175933	M			4.65	Tested	5.19
M28	840003314789081	NE06457839	M			4.55	Tested	4.57
M29	840003314789156	AF09175929	M			4.55	Tested	4.81
M7	840003314789212	AF09175897	M			4.50	Tested	5.58
M12	840003296800601	AF09175906	M			4.35	Tested	4.66
M87	840003314788247	NE06457837	M			4.35	Tested	5.04
M59	840003314789077	AF09175900	M			3.95	Tested	4.62
M75	840003314788888	AF09175972	M			3.60	Tested	5.10
M70	840003314788812	AF09175978	M			NR		

Definitions

Igenity Terminal Index	Index designed to rank cattle according to their genetic potential for terminal traits. Higher ITI values indicate animals with increased grid potential. Weightings: HCW 45%, REA 10%, MARB 15%, TEND 5%, FAT -10%, RFI -10%, CED 5%.
Igenity Branded Tier	Cattle can be grouped according to their genetic potential in order to obtain market premiums. Elite: Rank in the top 25% of cattle for terminal traits Premier: Rank in the top 50% for terminal traits Choice: Cattle do not rank in the top 50% for terminal traits
Igenity DOF Index	Index designed to rank cattle according to their genetic potential for gain and fattening. Higher DOF index values indicate animals with increased gain potential, who fatten at lower weights, resulting in fewer estimated DOF. Combine this index with animal enrollment weights to assist in grouping cattle in a feedlot setting according to their optimal DOF.
Envigor Score	A measure of heterosis in a crossbred animal. Higher value is an indication of increased hybrid vigor, thus increased longevity, and less susceptibility to health events.

SORT, MANAGE AND MARKET YOUR CATTLE

- Rank and manage feeder cattle based on genetic potential
- Market superior feeder cattle for a premium
- Sell/ship load lots of cattle with increased uniformity

TERMINAL INDEX THAT FOCUSES ON CARCASS PERFORMANCE

- Indexes designed for multi-trait selection
- Pinpoint herd strengths to assist with management
- Easy-to-read 1 to 10 scoring

IGENITY BRANDED TO HELP MARKET SUPERIOR CATTLE

- Calves with increased genetic potential deserve a premium
- Elite tiered cattle brought an additional \$65/hd in revenue compared to Choice, based on carcass merit

DAYS ON FEED INDEX TO HELP SORT CATTLE INTO UNIFORM PENS

- Combine with enrollment weight to assist in grouping cattle according to their optimal days on feed
- Create uniform pens of cattle to ensure optimum profitability

WHAT IS IGENITY BRANDED?

Igenity Branded is a program geared towards providing you with more marketing opportunities for Igenity tested cattle. Whether selling or buying, know that Igenity tested cattle have been selected with confidence.

For The Seller

To qualify, test at least 35% of calf crop to qualify heifers and/or steers. Then, certify lots of cattle based on Igenity results to market cattle based on genomic merit through Igenity Terminal.

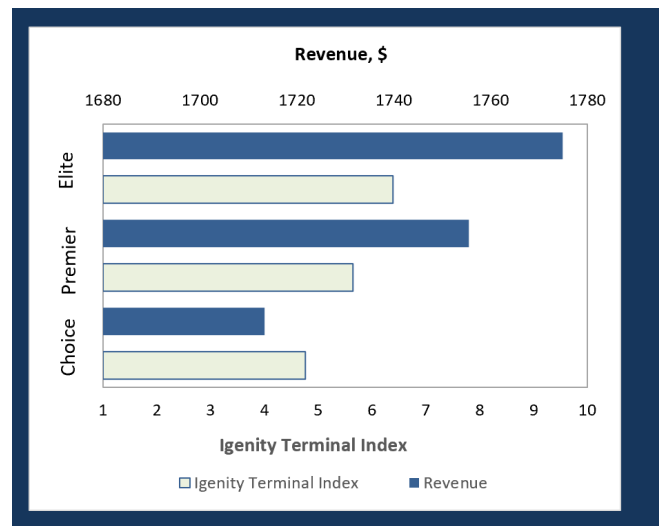
For The Buyer

Simply look for these represented by an Igenity Terminal logo within sale books, web, and television to ensure the identification of genetically superior calves and bid with confidence.

In a set of 4,200 feeder cattle tested on Igenity Feeder, cattle that qualified as Elite earned \$20 more, per head, than those qualified as Premier and \$62 more than those qualified as Choice. All these calves were managed the same - imagine the additional revenue if cattle had been managed according to their genetic potential to grade?

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Average revenue generated per animal based on Igenity Branded Program tier



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Days on Feed Index Table

While the Igenity Terminal Index helps to inform how cattle will perform on a grid, the Igenity Days on Feed (DOF) Index takes genomic insight just one step further. Using information on how cattle grow and deposit weight and fat, the Igenity DOF index can help feedlot operators better estimate the number of days to feed a group of cattle for optimum profitability. Simply find the approximate enrollment weight (rows) and DOF index (columns) for an individual animal. Then, locate their intersection for the estimated optimal DOF based on the individuals genetic potential and market assumptions provided below.

For example, a steer with an enrollment weight of 647 lbs and Igenity DOF index of 7.2 would reach peak body composition and weight at approximately 187 DOF.

Enrollment Weight (lbs)	Days on Feed Index: Optimal Days on Feed																		
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
500	395	381	367	353	338	324	309	295	280	266	251	237	223	209	194	180	165	151	136
550	375	362	348	335	321	308	294	281	267	254	240	227	213	200	186	173	159	146	132
600	354	342	329	317	304	291	278	266	253	241	228	216	203	191	178	165	152	140	127
650	333	322	310	298	286	275	263	252	240	228	216	205	193	181	169	158	146	135	123
700	312	302	291	280	269	259	248	237	226	215	204	194	183	172	161	151	140	129	118
750	292	282	272	262	252	242	232	223	213	203	193	183	173	163	153	143	133	123	113
800	271	262	253	244	235	226	217	208	199	190	181	172	163	154	145	136	127	118	109
850	250	242	234	226	218	210	202	194	185	177	169	161	153	145	137	129	121	113	104
900	229	222	215	208	201	194	186	179	172	165	157	150	143	136	129	122	114	107	100
950	209	203	196	190	184	178	171	165	158	152	146	140	133	127	120	114	108	102	95
1000	188	183	177	172	166	161	156	151	145	140	134	129	123	118	112	107	102	97	91

Revenue and Cost Assumptions

Below are the basic revenue and cost assumptions that were included in the model used to estimate the DOF tables above. These are merely industry average values that are subject to change at any time. For questions on the use of these data, or if interested in customized predictions for your own operation, please contact your NEOGEN Territory Manager or call 1-877-IGENITY.

Grid Assumptions

USDA Quality Grade	USDA Yield Grade				
	1	2	3	4	5
Prime	15.36	13.25	11.57	-0.79	-6.36
High Choice	8.42	6.31	4.63	-7.73	-13.30
Choice	3.79	1.68	Base	-12.36	-17.93
Select	-11.13	-13.24	-14.92	-27.28	-32.85
Standard	-23.68	-25.79	-27.47	-39.83	-45.40
Base Price/CWT: \$179.12					
400-500 lb	-30.71		900-1000 lb	-1.00	
500-550 lb	-23.47		1000-1050 lb	-7.67	
550-600 lb	-11.80		Over 1050 lb	-16.00	

Cost Assumptions

Daily Yardage Fee	0.45	
Cost Per Ton of Dry Matter	200.00	
Maintenance:	2.2 Mcal/kg NE	
Gain:	1.4 Mcal/kg NE	
Animal Purchase Cost/CWT	Heifer	Steer
< 600 lb	144.00	161.00
600 -700 lb	133.00	138.00
700 - 800 lb	111.00	125.00
800 - 900 lb	101.00	115.00
> 900 lb	99.00	113.00