

## Bull Evaluation and Marketing are Essential to Improvement and Our Future

By Clifton L. Willms, PhD, PAS

Tender Genetics has now tested a total of 181 bulls through the Grow Safe System. In addition to the bulls evaluated last fall and winter, an additional two groups of bulls have been evaluated this spring and summer. The range of performance differences among the bulls is huge. We all have good ones and we all have some we wish were a little better.

### Evaluation criteria

For your reference and review, we have submitted the data on all bulls tested to date in this issue of YOUR PIEDMONTESE VOICE. The key growth traits (birth weight, adjusted weaning weight, adjusted yearling weight, and average daily gain during the entire test as well as while on the Grow Safe System) are reported. Additionally, total daily intake and Residual Feed Intake (RFI) for each bull is listed. RFI is a measure of efficiency and a smaller number, i.e. more negative, indicates a bull is more efficient.

Further, all bulls developed and marketed by Tender Genetics are evaluated for disposition, feet, legs, movement, and overall phenotype. These are more subjective evaluations and should be used to qualify a person's selection. A scale of 1-6 was used to evaluate these traits (1 being best and 6 being worst for all categories). Two teams of evaluators scored each of the bulls and then the scores of the two teams were averaged. Hence, the reported score in some cases has a decimal point.

Disposition scoring was conducted by first bringing a pen of bulls to a holding pen near the working facilities. Then each bull was brought out individually into an adjacent alley. The two teams of evaluators were at opposite ends of the alley and gradually walked closer to the bull. Docile bulls were almost touched by the evaluators before they became fidgety and moved (Table 1). Excitable bulls became fidgety rather quickly and started running the fence looking for a way to escape. Bulls that were flighty but not overtly aggressive in these conditions are acceptable for large ranch country but should be avoided in smaller herds with more individual interaction between man and animal. No bulls that are deemed dangerous are sold by Tender Genetics (Note: bulls with a score of 6 will not be sold for breeding stock).

Perfect feet have good depth of heel, toes of equal length, and toes that point straight ahead both when standing and walking. Bulls scored 2 are often slightly splay-footed, but otherwise ideal. Severe discounts to feet were recorded for bulls with curled and/or long toes. The poorest scores were for bulls that "rolled" on the outside edge of their feet.

Leg score primarily indicates the "set" to the leg. A poor score was given to post legged or sickle hocked bulls. Due to the muscle structure of Piedmontese bulls, the evaluation team considered a slightly greater set to the leg than often seen in show rings as optimal.

Optimal movement (score of 1) would indicate a bull sets his rear foot in the track or hoof print on the ground where the front

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foot had been. A movement score of 1 or 2 indicates a free and easy moving bull whereas a score of 5 or 6 indicates a very stiff, short-strided bull.

Phenotype is an indicator of the general shape, capacity and depth of a bull. A score of 1 is best and a score of 6 indicates the bull is either very short coupled or the other extreme of being very large framed and shallow ribbed. Further, a bull was scored poorly for being very course in his shoulder.

### Importance of performance

We have always known that rapid growth and excellent feed conversion are important to profitable beef production, but they are paramount in today's economic environment. This is true regardless of your production system. All costs are rising and all pricing of feedstuffs are related based on their nutrient value. So we all have to get better at producing lean, tender beef and a big part of that is evaluating the growth performance and efficiency of our potential herd sires.

The Piedmontese breed has the opportunity to become the first true terminal sire breed in the beef industry. Ideally, the commercial producer who is our customer will have a cow herd with good maternal characteristics. Then they can use superior 2-copy Piedmontese influenced bulls as sires of terminal offspring to bring improved carcass and performance characteristics. Under such a system, specific breeds are used to their advantage for contributing maternal traits to the cow herd and other breeds are used to bring sire traits. Key to being a superior sire breed is offering bulls with high genetic potential for growth and excellent feed conversion. That is a huge reason why we have to keep focused on evaluating bull performance.

In a world with \$7.00/bu. corn a 10% improvement in feed conversion in the feedlot results in \$63.19 difference in profitability! (Table 2) This is based on a projection using typical feedstuffs for an Upper Midwest Feedlot in the Western Cornbelt. Note that the projection takes advantage of a considerable amount of by-products to lower overall feed costs. Further, these projections are based on cattle being started on a modest energy ration and then stepped through a series of rations with increasing energy density. Key assumptions used in the calculations are provided in the table. For every 100 calves a bull sires in his lifetime this amounts to \$6,319.00 difference in value. Remember also that this simple

calculation considers only feedlot performance from 650 lb to a 1350 lb harvest weight. There would be additional differences in cost of performance prior to entering the feedlot.

### Pre evaluation management protocol

Tender Genetics is looking forward to seeing the crop of bulls that will enter the sire evaluation this fall. We will again develop bulls at the Profit Maker facility between Paxton and Ogallala, NE. We learned a lot during our first full year of testing and feel that with a few minor adjustments we can expect even better performance this coming year.

If you are interested in consigning bulls this fall, it is critical to prepare the bulls properly so they perform well on test and stay healthy. Primary to these objectives is that all consigners follow the prescribed health protocol for their bulls prior to arrival. All bulls must be weaned for 45 days, bunk broke, and processed at least four weeks prior to delivery. Bulls must be treated for internal and external parasites, horns removed and healed, and immunized for IBR, BVD, PI3, BRSV, Haemophilus somnus, and Pasturella. Further, all bulls must be tested negative for persistently infected BVD prior to arrival. Removal of horns is critical to good merchandizing of the bulls. Having all bulls dehorned makes the entire group look better and more uniform. Dehorned bulls adapt to a new social order more readily when comingled.

Bulls should weigh between 600 lb and 850 lb upon delivery so that they will perform optimally while on test. Smaller bulls do not have the gut capacity to eat enough feed nor have they come into the rapid portion of their growth curve for them to gain well. Larger bulls are beginning to slow down on their growth rate and have a higher maintenance requirement simply due to their size and muscle mass and therefore do not have nearly as good feed conversion.

Each bull entered must be on a total herd reporting system to provide his birth date, birth weight, weaning date, weaning weight, and evidence that the bull is certified as "*Piedmontese-specific Myostatin allele mutation 2-copy carrier*".

For more information about Tender Genetics Bull Development, contact Hiram Lambert, Riverton, NE by phone (308.293.5444) or email ([hi.lambert@yahoo.com](mailto:hi.lambert@yahoo.com))

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Table 1. Disposition scores and descriptive behavior

Score	Temperament	Description
1	Docile	Mild disposition. Gentle and easily handled.
2	Restless	Quieter than average
3	Nervous	Typical temperament is manageable
4	Flighty	Jumpy. Runs the fence. Manageable in large ranch country
5	Aggressive	Similar to #4 but with added aggressive behavior
6	Very Aggressive	Extremely aggressive, pronounced attack behavior

Adapted from Beef Improvement Federation Guidelines. 8th Edition.

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Table 2. Feeding projection showing potential difference in profit due to 10% improved feed conversion during the feedlot phase of an animal's life

SET UP SPECIFICATIONS				
	Start Date	Oct 15, 2011		
	Initial weight, lbs	650		
	Feeder Cost, \$/cwt	135.00		
	Harvest Date	July 2, 2012		
	Finished weight, lbs	1350		
	Sale Price, \$/cwt *	125.00		
	% Death loss	1.0		
	Interest, %	5.0		
	Misc Cost, \$	20.00		
	Yardage, \$/h/d	0.35		
		STEER "A" – AVG F/F	STEER "B" – 10% BETTER F/G	
<b>PERFORMANCE</b>				
	Days on feed	262	262	
	ADG	2.67	2.67	
	Intake, lb DM/h/d	20.21	18.22	
	<b>F/G</b>	<b>7.56</b>	<b>6.81</b>	
	Purchase BE price	138.16	147.45	
	Sale BE price	123.41	118.74	
	Cost/day	2.98	2.74	
	<b>Profit/head, \$</b>	<b>21.47</b>	<b>84.66</b>	
		\$/100 lb	Total \$	Total \$
<b>Cost of Gain</b>				
	Feed	88.92	622.88	561.86
	Yardage	13.16	92.16	92.16
	Misc cost	2.88	20.20	20.2
	Interest	6.43	45.01	43.91
	Total	111.39	780.25	718.13
		Lbs.	Total \$	Total \$
<b>Feed Budget</b>				
	Mixed Hay	156	7.78	7.23
	Ground Corn Stalks	461	11.50	10.3
	Corn	2529	316.17	284.64
	Modified Dist. Grains	3250	162.53	146.36
	Corn Silage	1673	58.54	52.77
	Pelleted Starter	139	29.93	27.79
	Supplement	155	36.42	32.77
	Total	8363		7538

\* Sale price includes premium for Certified Piedmontese Beef

No guarantee of profitability is implied. Actual results will depend on many factors including animal health, genetic potential, environment, quality of feeds utilized, and general management practices.

### Tender Genetics Breeding Value:

On pages 22 - 25, the results of the first two Bull Evaluations are given and include an interim "Breeding Value" for each bull. This value is derived from that bull's individual feed efficiency and growth, and the heritability of those traits as applied to an average lifetime production of commercial offspring from that bull. (100 calves)

Our Breeding Value data processing is evolving, and BIO will be developing a \$ Value EPD system, so in future bull reports this value may be expressed differently.

Please note that this Breeding Value is implied by a bull's performance and expresses his potential to produce more, or less, income from his commercial offspring as compared to his contemporary group. It is *not* intended as the "purchase price" value of a bull. In reality, bull buyers are demanding this type of information and having it will allow you market bulls; not having it may leave your bulls unsold. However, reality dictates that the buyer will not be paying the bull producer the entire future potential earnings of a herd sire ! It is a powerful tool to put an individual bull's performance into perspective.

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## Tender Genetics Bull Development Results: Dec. 2010 - March 2011 Tests - all bulls homozygous for in-active myostatin

Tattoo / Ranch ID	Consigner	FB or NL	Birth WT	ADJ WW	ADJ YW	Test Date	Daily Intake Lbs	RFI lbs.	Extended ADG	GS ADG	Disposition	Feet	Legs	Movement	Phenotype	Breeding Value
MT111W	Descheemaeker	NL	86	498	803	Dec-10	26.79	3.04	2.9	2.6	2	2.5	2.5	2	2	\$9,574
MT123W	Descheemaeker	NL	84	500	773	Dec-10	21.26	-1.93	2.7	2.4	1.5	2	2	1.5	2	\$10,492
MT124W	Descheemaeker	NL	90	465	738	Dec-10	24.33	0.41	3.2	2.9	1.5	2.5	2	2	3.5	\$9,643
MT125W	Descheemaeker	NL	92	507	748	Dec-10	23.26	-0.56	3.2	2.9	5	2	2	2.5	2	\$10,628
MT126W	Descheemaeker	NL	87	520	793	Dec-10	21.25	-1.77	2.4	2.3	2.5	4.5	2.5	2	3.5	\$10,785
MT128W	Descheemaeker	NL	82	472	726	Dec-10	15.88	-2.76	1.8	0.8	3.5	2	2	2	5	\$7,931
MT129W	Descheemaeker	NL	85	456	754	Dec-10	22.52	1.00	2.6	2.1	2.5	2	2.5	1	3.5	\$8,339
MT5X	Descheemaeker	NL	115	709	1055	Dec-10	20.58	-1.10	3.1	2.9	5	2.5	6	1.5	2.5	\$10,772
MT47X	Descheemaeker	NL	95	605	1017	Dec-10	21.15	-0.63	3.1	2.9	2	1	1.5	1.5	1.5	\$9,157
MT71X	Descheemaeker	NL	89	567	963	Dec-10	23.15	2.43	2.8	2.9	3.5	3.5	2.5	2.5	3.5	\$7,551
MT90X	Descheemaeker	NL	86	607	1019	Dec-10	25.69	3.70	2.9	2.7	3.5	2.5	2	2	2	\$7,249
MT142X	Descheemaeker	NL	97	649	986	Dec-10	19.83	-0.59	2.7	2.5	4.5	2	3.5	2.5	3.5	\$9,093
MT207X	Descheemaeker	NL	98	650	1116	Dec-10	25.26	2.08	3.4	3.0	3.5	2	2	1.5	1.5	\$9,429
MY208X	Descheemaeker	NL	102	665	1217	Dec-10	28.82	3.02	4.1	3.8	3.5	2	1.5	2	1.5	\$10,853
LVC501X	Lakeview	FB	93	545	972	Dec-10	19.17	0.22	2.6	2.4	5	3.5	3.5	2.5	2.5	\$8,095
LVC13X	Lakeview	FB	73	536	936	Dec-10	22.23	4.84	2.6	2.7	5	3.5	3.5	2.5	3.5	\$7,224
LVC50X	Lakeview	FB	93	520	1006	Dec-10	20.73	0.62	2.7	2.6	5	2.5	2	2.5	2	\$8,074
LVC15X	Lakeview	NL	99	559	989	Dec-10	17.40	-2.47	2.6	2.6	3.5	2.5	3.5	4.5	2.5	\$9,643
LVC55X	Lakeview	FB	107	601	1052	Dec-10	23.70	2.59	2.9	2.8	5	2.5	4.5	2.5	2.5	\$8,869
LVC122X	Lakeview	NL	102	578	1032	Dec-10	20.02	0.28	2.6	2.0	5.5	2.5	3.5	4.5	3.5	\$7,862
LVC26X	Lakeview	FB	95	608	995	Dec-10	19.47	0.62	2.3	2.0	3.5	2	3.5	2.5	3.5	\$7,807
LVC10X	Lakeview	FB	110	530	1060	Dec-10	21.34	0.40	3.1	2.9	5	2.5	3.5	1.5	2.5	\$9,018
LVC8X	Lakeview	FB	100	538	874	Dec-10	15.81	-0.64	2.2	2.3	6	6	3.5	3.5	3.5	\$8,214
LVC100X	Lakeview	FB	93	591	989	Dec-10	19.61	1.55	2.2	2.1	2	2.5	2	2	2	\$7,827
LVC127X	Lakeview	NL	86	554	1057	Dec-10	21.03	1.15	2.7	2.6	2	3.5	4.5	3.5	3.5	\$8,881
LVC5X	Lakeview	FB	104	575	1039	Dec-10	18.85	-1.75	2.7	2.7	2	3.5	3.5	2	3.5	\$9,827
LVC470X	Lakeview	FB	99	566	1003	Dec-10	21.47	1.14	2.9	2.7	5	2.5	2.5	2	2	\$8,546
LVC44X	Lakeview	FB	98	496	952	Dec-10	18.68	-0.34	3.0	2.6	5	2	2.5	3.5	3.5	\$8,001
LVC60X	Lakeview	NL	105	710	1235	Dec-10	21.93	-1.51	3.1	2.5	4.5	2.5	2	2	2	\$10,160
LVC181X	Lakeview	FB	93	655	1092	Dec-10	19.90	-0.95	2.7	2.6	2	2	2	1.5	2	\$10,693
LVC118X	Lakeview	NL	112	585	1086	Dec-10	18.77	-1.77	3.0	2.8	3.5	4.5	3.5	2	3.5	\$10,626
LVC20X	Lakeview	FB	101	618	1033	Dec-10	20.97	0.56	2.5	2.3	5	3.5	2	2.5	3.5	\$8,827
LVC47X	Lakeview	FB	95	757	1226	Dec-10	22.74	0.10	2.8	2.5	1	4.5	3.5	1.5	2	\$12,032
LVC125X	Lakeview	FB	109	733	1160	Dec-10	22.52	1.07	2.4	2.0	4.5	4.5	5	3.5	2.5	\$9,631
LVC124X	Lakeview	FB	112	642	1060	Dec-10	19.21	-0.59	2.2	1.9	5	3.5	3.5	2	3.5	\$7,982
LVC121X	Lakeview	FB	116	701	1175	Dec-10	22.71	0.44	2.6	2.5	2	4.5	2.5	2.5	3.5	\$10,289
LVC112X	Lakeview	NL	116	717	1291	Dec-10	25.94	1.44	3.2	2.7	4.5	1.5	2	2.5	2	\$11,672
LVC16X	Lakeview	FB	98	479	914	Dec-10	20.68	2.33	2.8	2.9	6	3.5	3.5	1.5	3.5	\$7,379
LVC114X	Lakeview	NL	115	628	1104	Dec-10	24.23	2.91	2.7	2.6	3.5	2	2	2	2	\$9,288
LVC30X	Lakeview	FB	108	688	1063	Dec-10	20.29	0.32	2.2	1.9	2.5	1.5	2	2	3.5	\$8,837
LVC18X	Lakeview	FB	99	582	1070	Dec-10	19.42	-2.25	2.8	3.2	3.5	2	2	2	2	\$10,822
LVC2X	Lakeview	FB	95	665	1134	Dec-10	22.38	1.34	2.7	2.7	2	3.5	3.5	2	2.5	\$10,627
LVC123X	Lakeview	FB	113	665	1099	Dec-10	19.81	-0.38	2.9	2.6	3.5	3.5	2.5	2.5	3.5	\$10,185
LVC116X	Lakeview	NL	107	555	1063	Dec-10	17.80	-3.05	2.8	2.5	2	4.5	3.5	3.5	2.5	\$10,001
LVC49X	Lakeview	FB	93	608	1064	Dec-10	19.00	-1.62	2.8	2.5	5.5	2.5	3.5	2.5	3.5	\$10,065



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LVC126X	Lakeview	FB	105	507	993	Dec-10	20.30	0.45	2.8	2.5	5	3.5	3.5	3.5	2.5	\$7,734
LVC113X	Lakeview	NL	95	613	952	Dec-10	19.63	1.47	1.9	1.8	4.5	4.5	5.5	5	3.5	\$6,896
LVC21X	Lakeview	FB	96	588	1152	Dec-10	17.85	-4.66	3.1	2.9	3.5	2	2.5	2	1.5	\$11,599
LVC115X	Lakeview	FB	110	598	1069	Dec-10	21.14	0.89	2.8	2.4	5	2	4.5	2	3.5	\$8,324
LVC904X	Lakeview	FB	96	694	1148	Dec-10	22.29	0.15	2.9	2.7	5	2	2	2	2.5	\$11,158
LVC119X	Lakeview	FB	97	580	1069	Dec-10	20.69	0.57	3.0	2.7	2.5	2	2	2.5	2	\$8,999
LVC180X	Lakeview	FB	90	599	1043	Dec-10	21.63	2.41	2.7	2.4	4.5	2	2	2	2.5	\$8,382
TCR505	H. Lambert	NL	85	528	1115	Dec-10	26.53	-0.40	2.9	2.5	3.5	2.5	2.5	2.5	1.5	\$11,032
TCR510	H. Lambert	NL	110	531	1009	Dec-10	20.38	-2.46	2.2	2.3	3.5	2	3.5	4.5	2.5	\$11,283
HR308	H. Lambert	NL	119	510	1063	Dec-10	21.20	-1.16	2.2	1.5	2	2.5	2	3.5	2.5	\$8,495
HT535	H. Lambert	NL	121	429	823	Dec-10	20.17	0.60	2.8	2.3	2.5	3.5	5	5	2.5	\$6,996
HR3003	H. Lambert	NL	98	521	973	Dec-10	18.67	-3.37	2.7	2.6	3.5	2	2	2	2	\$10,866
HR3011	H. Lambert	NL	89	492	778	Dec-10	14.51	-0.91	1.9	1.8	6	6	3.5	3.5	3.5	\$6,049
HR3047	H. Lambert	NL	85	524	915	Dec-10	22.43	2.84	2.9	2.7	3.5	2.5	2.5	3.5	2.5	\$6,811
HR3054	H. Lambert	NL	81	619	1031	Dec-10	20.32	0.16	3.0	2.8	3.5	4.5	3.5	3.5	2.5	\$10,196
HR3056	H. Lambert	NL	95	324	749	Dec-10	19.80	-0.06	2.6	2.8	2.5	2	4.5	4.5	5	\$6,812
HR3061	H. Lambert	NL	111	565	1032	Dec-10	22.50	0.72	3.3	3.4	5	4.5	2	2.5	2	\$10,124
HR3070	H. Lambert	NL	128	477	962	Dec-10	24.90	2.07	2.8	2.2	3.5	2.5	3.5	3.5	3.5	\$8,567
HR3081	H. Lambert	NL	116	492	933	Dec-10	19.49	-0.94	3.1	3.0	4.5	3.5	2	2.5	3.5	\$8,532
HR3082	H. Lambert	NL	116	513	901	Dec-10	26.01	1.87	3.2	2.8	2.5	2.5	3.5	3.5	2	\$9,740
HR3087	H. Lambert	NL	111	407	867	Dec-10	19.32	-0.72	2.2	2.0	3.5	2.5	6	5	3.5	\$7,758
HR3091	H. Lambert	NL	98	431	824	Dec-10	16.24	-2.41	1.9	1.1	2.5	2	2	2.5	2.5	\$5,109
HR3093	H. Lambert	NL	102	606	1056	Dec-10	21.23	0.13	3.3	3.1	4.5	2.5	2.5	2.5	2.5	\$10,743
HR3117	H. Lambert	NL	99	599	1017	Dec-10	19.41	-1.16	3.1	2.9	3.5	2.5	3.5	3.5	2	\$10,480
HR3143	H. Lambert	NL	109	492	1071	Dec-10	22.24	-0.43	2.1	1.9	4.5	2.5	3.5	3.5	2	\$9,689
HR4202	H. Lambert	NL	83	538	852	Dec-10	17.55	0.14	2.2	2.3	3.5	5	5	2.5	3.5	\$7,448
HR4207	H. Lambert	NL	108	596	1015	Dec-10	18.55	-1.79	2.8	2.9	5	3.5	3.5	2.5	3.5	\$10,729
HR4223	H. Lambert	NL	102	557	994	Dec-10	19.57	-1.55	2.6	3.1	2	2	2	2	1	\$10,057
HR4234	H. Lambert	NL	109	426	823	Dec-10	18.50	0.24	2.8	2.6	2.5	3.5	4.5	2.5	2.5	\$6,154
HR4236	H. Lambert	NL	118	561	961	Dec-10	25.83	3.31	2.9	2.5	3.5	3.5	4.5	3.5	2	\$8,717
HR4252	H. Lambert	NL	105	426	859	Dec-10	18.86	-0.92	3.3	3.4	3.5	3.5	3.5	3.5	2.5	\$7,749
HR4262	H. Lambert	NL	103	545	998	Dec-10	21.36	-1.95	3.1	2.8	2	3.5	2	2	2	\$11,107
HR4276	H. Lambert	NL	116	545	1042	Dec-10	20.92	-1.37	3.5	3.4	2	2.5	3.5	3.5	2	\$10,424
HR4279	H. Lambert	NL	75	614	974	Dec-10	16.54	-1.13	2.8	2.8	3.5	5	5	5	4.5	\$10,942
HR4305	H. Lambert	NL	104	558	922	Dec-10	22.70	0.91	2.8	2.4	2	2.5	2.5	3.5	2.5	\$9,230
HR5003	H. Lambert	NL	106	552	981	Dec-10	18.67	-2.33	3.0	3.3	2	3.5	5.5	4.5	3.5	\$10,574
HR5013	H. Lambert	NL	90	571	1008	Dec-10	20.48	-0.62	3.2	2.9	3.5	3.5	2.5	3.5	2.5	\$9,728
HR7016	H. Lambert	NL	89	521	926	Dec-10	19.55	-1.15	3.1	3.0	5	5	3.5	2.5	2.5	\$8,879
HR158	H. Lambert	NL	98	571	969	Dec-10	25.54	1.81	3.2	2.9	3.5	2.5	3.5	3.5	3.5	\$10,144
HR280	H. Lambert	NL	75	541	1103	Dec-10	20.73	-3.62	2.5	2.0	1	3.5	2	2	1	\$11,547
HR272	H. Lambert	NL	111	359	761	Dec-10	19.36	-0.31	3.1	2.9	2	4.5	5	5	5	\$6,924
TCR112	H. Lambert	NL	112	550	1007	Dec-10	24.34	-0.04	2.9	2.2	3.5	3.5	2.5	3.5	2	\$10,361
4514	LCCC	NL	90	623	945	Dec-10	16.76	-0.10	2.3	2.6	3.5	3.5	3.5	2	2.5	\$10,767
4522	LCCC	NL	86	508	851	Dec-10	16.33	-1.21	2.4	2.3	5	3.5	5	3.5	3.5	\$8,046
4528	LCCC	NL	102	569	1057	Dec-10	23.34	1.19	3.5	3.6	3.5	3.5	4.5	5	3.5	\$10,842



## Tender Genetics Bull Development Results: Dec. 2010 - March 2011 Tests - all bulls homozygous for in-active myostatin

Tattoo / Ranch ID	Consigner	FB or NL	Birth WT	ADJ WW	ADJ YW	Test Date	Daily Intake Lbs	RFI lbs.	Extended ADG	GS ADG	Disposition	Feet	Legs	Movement	Phenotype	Breeding Value
4531	LCCC	NL	98	411	834	Dec-10	17.56	-0.80	2.8	2.9	3.5	5	4.5	4.5	3.5	\$7,324
4532	LCCC	NL	104	425	734	Dec-10	13.68	-1.37	2.0	1.5	5	4.5	4.5	3.5	3.5	\$4,414
4533	LCCC	NL	81	543	888	Dec-10	14.96	-2.54	2.5	2.6	4.5	3.5	2.5	2.5	3.5	\$10,143
4535	LCCC	NL	106	540	934	Dec-10	21.24	1.69	2.8	2.9	3.5	3.5	3.5	2.5	4.5	\$8,656
4538	LCCC	NL	99	520	870	Dec-10	19.63	1.98	2.3	2.3	3.5	2.5	4.5	2	3.5	\$6,789
4539	LCCC	NL	109	570	953	Dec-10	19.76	0.93	2.8	2.6	2	3.5	3.5	3.5	3.5	\$9,005
4987	LCCC	NL	88	463	830	Dec-10	16.50	-1.63	2.8	2.9	5	2.5	4.5	2.5	2.5	\$8,361
5506	LCCC	NL	89	504	903	Dec-10	17.91	-0.67	2.7	2.6	5	3.5	3.5	3.5	2.5	\$8,575
5509	LCCC	NL	90	603	1006	Dec-10	16.62	-2.90	3.0	3.1	3.5	3.5	3.5	2	2	\$12,163
5511	LCCC	NL	95	535	901	Dec-10	18.34	-0.23	2.9	3.4	3.5	3.5	2.5	2.5	1.5	\$10,104
5527	LCCC	NL	86	520	886	Dec-10	20.58	1.68	2.6	3.1	3.5	5	5	3.5	3.5	\$8,684
5538	LCCC	NL	90	587	977	Dec-10	15.04	-2.96	2.9	2.6	3.5	3.5	3.5	5	2.5	\$11,461
5556	LCCC	NL	98	484	861	Dec-10	17.09	-1.35	2.6	2.8	3.5	4.5	4.5	3.5	4.5	\$8,543
5563	LCCC	NL	106	583	974	Dec-10	18.86	-0.06	2.4	2.5	3.5	2.5	2.5	2.5	2	\$9,517
5565	LCCC	NL	92	463	868	Dec-10	19.66	0.78	2.9	2.9	5	3.5	5	3.5	2.5	\$7,580
5592	LCCC	NL	95	603	968	Dec-10	18.05	-0.35	2.5	2.7	5	2	2	2.5	2	\$10,635
5596	LCCC	NL	105	609	987	Dec-10	17.93	-1.30	2.8	3.0	3.5	2	2.5	2	2.5	\$11,433
TCR306	H. Lambert	NL	90	557	955	Dec-10	23.88	1.46	2.7	2.5	3.5	2	2	2.5	2	\$9,295
TY Titus	T. Yoder	NL	90	398	923	Dec-10	25.16	5.18	1.8	1.4	3.5	4.5	3.5	4.5	4.5	\$4,581
TCR499	H. Lambert	NL	70	475	909	Dec-10	21.92	-1.56	2.3	2.3	1.5	4.5	2	2	1	\$9,268
WY1	W. Yoder	NL	95	626	1140	Dec-10	21.92	-1.30	3.7	3.5	1	2.5	2	2	2	\$11,959
WY2	W. Yoder	NL	85	614	902	Dec-10	17.12	-0.97	2.5	2.3	2.5	2	3.5	3.5	2	\$9,257
WY3	W. Yoder	NL	85	686	1026	Dec-10	22.33	2.58	2.2	1.9	5	2.5	3.5	3.5	2.5	\$7,553
WY4	W. Yoder	NL	80	525	933	Dec-10	21.97	2.92	2.8	2.8	2.5	4.5	5	2.5	2.5	\$7,799
TAS9X	Miller	NL	90	608	1009	Dec-10	17.41	-1.75	2.8	2.9	4.5	2.5	3.5	2	3.5	\$9,579
TAS11X	Miller	NL	91	661	1061	Dec-10	20.69	0.94	2.5	2.5	3.5	3.5	3.5	2	3.5	\$8,583
TAS21X	Miller	NL	95	687	1001	Dec-10	16.78	-0.82	1.9	1.6	2	2	3.5	2.5	3.5	\$7,222
TAS12X	Miller	NL	91	696	1122	Dec-10	21.11	0.71	2.8	2.7	2	2.5	3.5	2.5	3.5	\$9,922
TAS13X	Miller	NL	90	682	1014	Dec-10	14.74	-3.80	2.4	2.3	3.5	2.5	3.5	2	2	\$10,434
MLF102X	Snover	NL	67	456	730	Dec-10	16.71	1.76	1.7	1.6	6	3.5	3.5	3.5	3.5	\$5,892
MLF103X	Snover	NL	80	448	831	Dec-10	15.48	-1.04	2.4	2.3	5.5	5	2.5	2	2.5	\$9,748
MLF105X	Snover	NL	88	506	872	Dec-10	15.67	-1.82	2.3	2.2	6	3.5	3.5	3.5	3.5	\$10,857
MLF106X	Snover	NL	96	465	889	Dec-10	17.72	-0.20	2.6	2.7	6	3.5	3.5	3.5	3.5	\$10,682
MLF107X	Snover	NL	97	463	893	Dec-10	23.20	5.36	2.7	2.7	5	2	2	2	2.5	\$8,574
LVC120X	Lakeview	FB	94	406	916	Mar-11	40.38	0.53	2.6	2.2	4	2.5	3	3	3	\$7,867
LVC3X	Lakeview	FB	91	549	1021	Mar-11	41.87	1.38	2.52	2.40	4	2	3	2.5	2	\$11,350
LVC11X	Lakeview	FB	101	456	827	Mar-11	34.99	1.30		1.88	6					\$8,359
HR3073	H. Lambert	NL	75	483	802	Mar-11	33.59	-0.28	2.20	2.12	2.5	2.5	2	2.5	2.5	\$8,597
HR3136	H. Lambert	NL	70	454	876	Mar-11	32.90	-2.16	2.22	2.22	4.5	3.5	4.5	4	4	\$8,967
HR4201	H. Lambert	NL	80	501	928	Mar-11	36.62	0.07	2.31	2.40	4	3	3	2.5	2.5	\$10,019
1998	LCCC	NL	90	430	840	Mar-11	36.41	-0.30	2.26	2.53	3	2.5	2	2.5	2.5	\$9,435
4994	LCCC	NL	82	417	863	Mar-11	34.31	-4.02	2.48	2.78	3	2	2.5	1	2	\$9,930
5504	LCCC	NL	85	445	794	Mar-11	34.88	1.07	1.91	1.84	4	2	4	3.5	4	\$7,677
5531	LCCC	NL	85	416	835	Mar-11	30.95	-3.51	2.37	2.43	3	2	2.5	2.5	3	\$9,710
MLF108X	Snover	NL	88	426	804	Mar-11	36.47	-0.06	2.52	1.91	3.5	3	2.5	1	2	\$8,795



# Tender Genetics Bull Development Results: Dec. 2010 - March 2011 Tests - all bulls homozygous for in-active myostatin

Tattoo / Ranch ID	Consigner	FB or NL	Birth WT	ADJ WW	ADJ YW	Test Date	Daily Intake Lbs	RFI lbs.	Extended ADG	GS ADG	Disposit ion	Feet	Legs	Movement	Phenoty pe	Breeding Value
MLF109X	Snover	NL	85	393	838	Mar-11	39.02	0.93	1.98	1.77	3	2	2	2.5	3	\$7,621
MLF110X	Snover	NL	88	550	754	Mar-11	33.08	-0.57	1.72	1.98	5	2.5	3	2.5	2.5	\$11,168
TTK19X	Silva	FB	104	709	1106	Mar-11	53.83	1.87	1.83	2.05	2	2.5	3	2.5	3	\$7,288
TTK29X	Silva	NL	102	777	1072	Mar-11	46.33	-1.95	2.19	2.67	2	2	2	2	2	\$10,319
TTK21X	Silva	NL	108	745	1102	Mar-11	44.92	-3.95	2.00	2.53	1	2	2	2.5	2	\$9,966
RJB107X	Brook	FB	102	419	678	Mar-11	40.02	1.58	2.87	3.30	5	2.5	2.5	2.5	3	\$7,894
RJB124X	Brook	FB	102	514	614	Mar-11	27.05	-0.73	2.87	2.95	5	3	3	3	4	\$10,708
RJB101X	Brook	FB	120	432	628	Mar-11	34.89	0.98	2.61	2.95	2	2.5	3.5	2.5	3.5	\$7,888
RUB20X	Brook	FB	95	489	718	Mar-11	30.66	-0.96	2.54	2.85	5	2	2.5	2.5	3	\$10,287
WY8	W. Yoder	NL	85	591	975	Mar-11	37.90	1.62	1.96	1.98	3	3	3	3	3.5	\$10,523
TAS7X	Miller	NL	80	506	968	Mar-11	40.24	-0.54		2.22	6	2	2.5	2	2	\$8,249
TAS14X	Miller	NL	84	593	1043	Mar-11	41.53	-0.36	2.22	2.47	2	3	3.5	2	3	\$10,399
RFU11	Ullom	NL	79	509	801	Mar-11	28.37	-0.39	2.22	1.94	2.5	2.5	3	3	3.5	\$7,748
TAS8X	Miller	NL	80	498	908	Mar-11	40.51	0.49	1.98	2.40	2.5	3	4	4	4	\$8,249
WY7	W. Yoder	NL	80	458	842	Mar-11	41.19	1.31	2.41	2.33	3	2	2	2	2	\$7,848
RFU13	Ullom	NL	92	643	1002	Mar-11	39.97	-0.55	2.50	2.85	3.5	3	2.5	2	2	\$10,620
TAS15X	Miller	NL	84	569	947	Mar-11	33.16	-0.81	2.17	2.01	2	3	4	4	3	\$9,875
WY9	W. Yoder	NL	84	452	781	Mar-11	34.64	2.73	2.52	2.53	3	3	3.5	3	4	\$9,204
PE139X	DenOudsten	NL	126	510	877	Mar-11	39.57	0.09	2.85	2.53	4	3	3	2.5	2.5	\$9,992
PE135X	DenOudsten	NL	100	581	818	Mar-11	42.90	2.06	2.96	2.95	2	3.5	2.5	2	1.5	\$10,193
PE42X	DenOudsten	FB	93	477	793	Mar-11	38.94	-0.81	2.52	2.78	5	4	3	3	4	\$9,327
PE123X	DenOudsten	NL	115	540	875	Mar-11	26.90	-3.06	1.30	1.01	2	3	3.5	2.5	3	\$6,942
PE41X	DenOudsten	FB	90	418	776	Mar-11	37.98	-0.59	2.69	2.64	2	2.5	2.5	2.5	2.5	\$8,286
PE55X	DenOudsten	FB	105	439	830	Mar-11	41.35	-0.05	2.80	2.74	2.5	3	4	3	5	\$8,697
PE6X	DenOudsten	NL	100	568	867	Mar-11	43.73	-0.37	2.26	2.19	3	3	3	2	2.5	\$8,881
PE14X	DenOudsten	FB	115	516	913	Mar-11	47.93	1.98	2.00	1.88	5	2.5	3	3	5	\$6,587
PE77X	DenOudsten	FB	157	480	833	Mar-11	42.77	0.23	3.15	3.09	3	2.5	.	3.5	4	\$9,730
PE152X	DenOudsten	FB	115	568	850	Mar-11	34.63	-1.33	2.89	2.50	5.5	3	3	3	4	\$11,283
PE154X	DenOudsten	FB	105	509	836	Mar-11	33.47	0.09	1.91	1.91	2	2	3	3	3.5	\$9,299
PE162X	DenOudsten	FB	118	556	899	Mar-11	38.50	-0.66	2.17	2.95	3	3	4	3	3.5	\$11,726
PE12X	DenOudsten	FB	96	498	767	Mar-11	39.95	0.44	2.43	2.26	2.0	2.0	2.0	2.0	2.5	\$8,173
PE38X	DenOudsten	NL	86	530	823	Mar-11	38.36	-2.66	2.81	3.02	1.5	4.5	3.5	.	3.5	\$10,659
PE10X	DenOudsten	FB	106	442	784	Mar-11	45.01	2.77	2.26	2.19	3	3	3	2.5	2.5	\$6,529
PE56X	DenOudsten	FB	110	511	824	Mar-11	39.45	0.50	2.22	2.22	2	3	3	2	3	\$8,847
PE62X	DenOudsten	FB	122	383	815	Mar-11	34.46	-2.87	2.61	2.57	2.5	2.5	2	2.5	2.5	\$8,373
PE79X	DenOudsten	FB	99	461	866	Mar-11	43.68	1.29	2.41	2.64	2	2	2.5	2	1	\$8,828
PE15X	DenOudsten	NL	91	582	944	Mar-11	54.58	5.25	2.85	2.40	3	2.5	3	3	2.5	\$8,905
PE3X	DenOudsten	FB	110	473	979	Mar-11	59.00	2.83	2.96	2.99	2	3	3	3	5	\$8,365
PE7X	DenOudsten	FB	110	552	872	Mar-11	43.98	0.18		2.01	6	3	3	3	5	\$8,071
PE164X	DenOudsten	FB	98	592	955	Mar-11	45.94	3.80	2.33	2.64	2	3.5	4	5	4	\$11,290
PE86X	DenOudsten	NL	86	487	816	Mar-11	38.83	-0.20	2.70	2.53	4	3	4	4	4	\$9,270
PE24X	DenOudsten	NL	100	534	877	Mar-11	41.38	-0.89	1.83	2.36	3	3.5	4.5	6	5	\$9,441
PE53X	DenOudsten	FB	106	550	933	Mar-11	39.97	-2.15	2.28	2.29	2.5	3	3	3	3.5	\$10,083
PE130X	DenOudsten	NL	120	516	893	Mar-11	39.21	-1.34	2.70	2.78	3	3	3	4.5	5	\$10,620
PE68X	DenOudsten	NL	118	499	791	Mar-11	40.42	0.74	2.89	2.74	2.5	4	3	3.5	3	\$9,457