

Spring 2011

Charolais
Sire Summary

P R E F A C E



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On behalf of the American-International Charolais Association we are pleased to present the Spring 2011 Charolais National Cattle Evaluation. This current analysis represents the most accurate and comprehensive analysis for the US Charolais cattle population.

This genetic evaluation includes Expected Progeny Differences for economically important traits. EPDs are computed for calving ease (CE), birth weight (BW), weaning weight (WW), yearling weight (YW), maternal milk (Milk), maternal calving ease (MCE), total maternal (MTNL), scrotal circumference (SC) and for carcass merit which is presented on a carcass basis for hot carcass weight (HCW), ribeye area (REA), fat thickness (FAT) and marbling (MARB).

The carcass records for this genetic evaluation represents the combined efforts of breeders that have conducted their own structured sire evaluation program or submitted carcass data on non-replacement Charolais heifers and steers along with carcass data from the AICA Sire Evaluation Program (SEP). Also included in this analysis is ultrasound data on yearling heifers and bulls.

An EPD is currently the best estimate of an animals genetic worth given the information available for the analysis. Numerous studies using research herds and field records have validated the merit of an EPD as a selection tool to make directional change in beef herds for the traits evaluated. Research has further shown that even for young animals, an EPD can be as much as 9 times more accurate than a within herd ratio or weight. However, there are many traits that impact the profitability of the beef enterprise, not all of those traits are reported here in this analysis. Furthermore, proper management practices must be matched to your genetics to realize the best opportunity for profitability.

The production of this analysis involves the input of many people. First, members of AICA enrolled in the Whole Herds Rewards or Performance Plus Registry supplied information in the form of phenotypic data for growth and carcass (including ultrasound) along with pedigree and birth information. The accuracy and quality of this analysis can only be as good as this data collectively as the EPD are a direct reflection of the completeness and accuracy of phenotypic data reported. Additionally, Dr. Keith Bertrand, Dr. Ignacy Misztal and their professional staff at the University of Georgia for conducting the research and model development for editing and calculation of genetic values. And finally AGI for providing professional genetic evaluation services to the AICA. Without the cumulative efforts and dedication to the Charolais breed of all involved, this analysis would not be possible.

A handwritten signature in black ink, appearing to read "Robert E. Williams". The signature is fluid and cursive, with a long horizontal stroke at the end.

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SIRE SELECTION

Trait Leaders

Progeny Proven sires identified from the evaluation as trait leaders are those that excel in a specific trait. The determination of a trait leader is based on meeting superior standards in both EPD and accuracy values for a trait. The sires listed include the top 25 sires for BWT, WWT, YWT, and Maternal Milk considering EPD criterion with an accuracy of .55 or greater for that trait. (Top 10 Sires for HCW, REA, FAT, MARB).

Multiple Trait Sires: Active Progeny Proven sires identified from the genetic evaluation as multiple trait leaders are those sires that excel in the traits of Birth Weight, Weaning Weight, Yearling Weight and Total Maternal. These traits are each standardized so that equal emphasis can be placed on each of the 4 traits. To qualify for the list a sire must be listed as a Progeny Proven Sire, must have an accuracy value greater than .55 for weaning weight, and must be in the top 50th percentile for BWT, WWT, YWT, MAT, and TotMat EPD among active sires.

Active Sires

Progeny Proven Sires (Denoted PP): These sires are those that have met an accuracy standard of .55 in the weaning weight EPD evaluation and have at least five (5) calves sired by him with performance information reported within the last two years. The weaning weight EPD factor is used as a selection criterion as it is least subject to bias and the trait with the most information. EPD and accuracy values for other traits are published for these sires. Sires listed in this category have sired enough performance-tested progeny to warrant considerable predictability.

Young Sires (Denoted YS): These sires must be born after January 1, 2006 and meet an accuracy of .35 in the weaning EPD analysis. The value of this category is to distribute information on young sires with potential for use in breeding programs. The EPD values expressed should be considered in relation to lower accuracy values.

EVALUATION OF SIRE INFORMATION

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Matnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
PP BULL'S NAME 03/22/1999 M 000000 BULL'S SIRE	AICA PO BOX 20247 KANSAS CITY, MO 64195	2 107 9	14 0.58	-1.8 0.76	22 0.65	39 0.20	4 0.26	12 0.24	15	N/A	0 1 1	16 0.16	0.17 0.13	-0.003 0.09	0.03 0.05
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

- 1** Bull's official name, birth date, AICA registration number, sire.
- 2** Bull's current owner and address.
- 3** Herds, Progeny and Daughters in Production (DIP) – reflects the number of herds this sire has been used in, the number of progeny whose performance was evaluated for this edition of the sire summary, and the number of daughters whose offspring were evaluated for calculating the Maternal Milk EPD.
- 4** Calving Ease Direct (CE) - expressed as a difference in percentage of unassisted births in first calf heifers. A higher value indicates greater calving ease. It predicts the average difference in unassisted births with which a sire's calves will be born when bred to first-calf heifers.
- 5** Birth Weight EPD – the expected difference in average birth weight (pounds) of progeny. Birth weight reflects prenatal growth.
- 6** Weaning Weight EPD – the expected difference in average weaning weight of calves. The evaluation reflects the genetic influence on pre-weaning growth rate.
- 7** Yearling Weight EPD – the expected difference in average yearling weight of progeny. The evaluation reflects genetic influence on both pre-weaning and post-weaning growth rate.
- 8** Maternal Milk EPD – the genetic ability of a sire's daughters to express in pounds of weaning weight in her calves due to her maternal ability through mothering instinct and milk.
- 9** Calving Ease Maternal (MCE) - expressed as a difference in percentage of unassisted births in first calf daughters. A higher value indicates greater

- calving ease. It predicts the average difference in unassisted births with which a sire's daughters will calve as first-calf heifers when compared to daughters of other sires.
- 10** Total Maternal EPD – a value to predict the weaning weight performance of calves from a sire's daughters due to genetics for growth and maternal ability. Total Maternal is calculated by adding 1/2 the WWT EPD to the Maternal Milk EPD.
- 11** Scrotal Circumference EPD — the expected difference in scrotal circumference (expressed in centimeters) of a bulls male offspring at yearling compared to progeny of all other bulls evaluated. Research has also indicated a relationship between increased scrotal circumference and decreased age at puberty for a sire's daughters.
- 12** Carc, Ultra, U Hrd – reflects the number of carcass progeny used in computing the carcass EPD, the number of progeny with ultrasound data used in computing the carcass EPD and the number of herds that have contributed ultrasound records for progeny.
- 13** Hot Carcass Weight EPD (HCW) – the expected difference in average hot carcass weight of progeny at a constant age endpoint.
- 14** Ribeye Area EPD (REA) – the expected difference in average ribeye area of progeny at a constant age endpoint.
- 15** 12th-13th Rib Fat Thickness EPD (FAT) – the expected difference in average fat thickness at the 12th and 13th rib of progeny at a constant age endpoint.
- 16** Marbling EPD (MARB) – the expected difference in average USDA marbling score of progeny at a constant age endpoint.

Sire summaries use the term Expected Progeny Difference (EPD) to express genetic transmitting ability of a sire for the various traits listed. An EPD is a prediction of how future progeny of a sire are expected to perform in a particular trait relative to other sires in the analysis. The key word is "difference." The EPD itself does not imply "good" or "bad" performance. But rather, the EPD gives a prediction of the average difference to expect in the performance of a sire's progeny relative to other sires in the same analysis. The EPD for a given trait on each bull listed in the Sire Summary is compared to every other bull in this sire summary report. The EPD is reported as a plus or minus value in the unit which the trait is measured. Each EPD reported is accompanied with an Accuracy (ACC) figure. ACC is a measure of reliability regarding the EPD evaluation for a performance trait. Accuracy is reported as a decimal number between zero and one: large values indicate greater accuracy and more certainty that the EPD will show little change as additional progeny information is obtained.

ACCURACY VALUES

USING ACCURACY VALUES

Accuracy values give us an indication of how close our estimates are to an animal's true genetic value. Accuracy values are extremely useful to breeders in determining the **reliability** of an EPD. An accuracy value can range from 0.0 to 1.0, depending on the amount of information that is known about an animal for any one of the reported traits. **As the** amount of information included in the analysis of a trait for an individual increases, the accuracy value for that trait increases accordingly.

Table 1 shows the standard error of prediction (possible change value for an EPD) at various levels of accuracy for the traits reported. You will notice that as the accuracy level increases, the possible change value decreases. Still, an EPD can change from year to year even though it may have a high level of accuracy. The point to remember is that the expected change of an EPD with a high ACC is correspondingly less than those of an EPD with a lower ACC value.

The possible change of identical EPD, given different levels of accuracy, can be seen in Figure 1. Two bulls have YW EPD of +20, but different ACC values. This figure illustrates the possible range within where the true genetic value is. Bull A has an ACC of .40 with a possible change of ± 23.0 pounds, and Bull B has an ACC of .80 with a possible change value of ± 8.5 pounds. As additional information is reported and accuracy levels increase, we would expect the EPD to stay within the range of the possible change value.

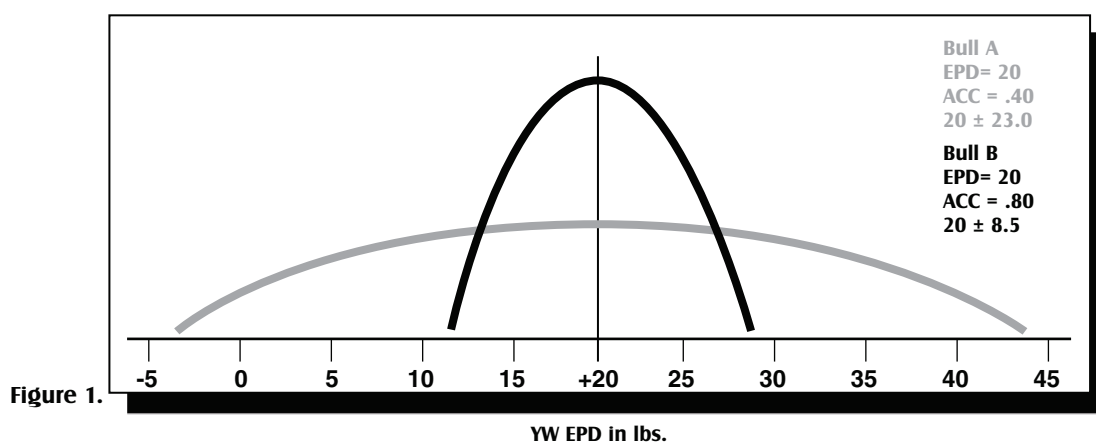


Figure 1.

Even though both bulls have an EPD of +20 pounds for yearling weight; Bull B has a higher reliability that his true genetic value is within the narrower range of 11.50 to 28.50 (20~8.50).

The ACC of a given EPD can help determine the amount of risk a breeder is willing to take in his breeding decisions. Let us compare the bulls in Figure 1 again. Which bull is more desirable for your breeding program? The bull with the high ACC is more predictable, but the amount of genetic change that can be made is correspondingly limited as well. Bull A has the same YW EPD, but his true genetic value may be beyond that of Bull B. Therefore Bull A could possibly increase the amount of genetic progress made, but he is also more of a risk because his true genetic value falls within a wider range.

POSSIBLE CHANGE

Accuracy values help determine the amount of risk associated with genetic repeatability, but they are not foolproof. Table 1 shows the possible change values of an EPD with a given ACC. Approximately 70 percent of the time the EPD will not deviate outside of these parameters.

Table 1.

ACC	BWT	WWT	MILK	YWT	SC	HCW	REA	FAT	MARB	CE	MCE
0.0	4.1	21.1	14.0	31.3	0.75	16.7	0.42	0.038	0.27	14.2	13.4
0.1	3.9	20.4	14.0	30.3	0.69	15.0	0.38	0.034	0.24	12.7	12.0
0.2	3.7	19.4	13.6	28.8	0.62	13.5	0.34	0.030	0.21	11.2	10.6
0.3	3.4	17.8	12.9	26.4	0.55	11.9	0.30	0.027	0.18	9.8	9.2
0.4	3.0	15.5	11.8	23.0	0.48	10.1	0.26	0.023	0.16	8.3	7.9
0.5	2.6	13.1	10.1	19.5	0.41	8.4	0.22	0.019	0.13	6.9	6.5
0.6	2.2	10.7	8.5	16.0	0.35	6.7	0.18	0.015	0.10	5.5	5.2
0.7	1.8	8.2	6.7	12.3	0.28	5.1	0.14	0.011	0.08	4.1	3.9
0.8	1.3	5.7	5.5	8.5	0.21	3.6	0.10	0.008	0.05	2.7	2.6
0.9	0.8	3.1	3.7	5.0	0.14	2.0	0.06	0.004	0.03	1.3	1.3
1.0	0.0	0.0	1.9	0.0	0.00	0.0	0.00	0.000	0.00	0.0	0.0

HERITABILITY / GENETIC TREND

HERITABILITY

Heritability may be defined as the proportion of the observed phenotypic variation that is due to genetic variation. For example, when analyzing a group of Charolais calves from the same sire, one would expect some variation in the weaning weights. Since weaning weight is 25 percent heritable, 25 percent of the observed variation is attributable to genetics while the remaining 75 percent of the observed variation is due to environmental influences.

Traits with low heritability estimates are influenced more by environment than by genetics, thus genetic progress from selection may be slow. Traits with low heritability respond greater to the effects of crossbreeding. Since heritability is already an integral part of the EPD formula, EPD reflect actual differences and require no adjustment.

	ULTRASOUND MEASUREMENTS (Correlated Traits)																
	BWT	WWT	PWG	MAT	SC	REA	HCW	FAT	MARB	CE	MCE	IMF	REA	SCAN WT	FAT THICK	RUMP FAT	
BWT	0.49	0.47	0.22								-0.76	0.16					
WWT		0.25	0.49	-0.32	0.28	0.35	0.45	-0.10	-0.07								
PWG			0.31		0.35												
MAT				0.14													
SC					0.31												
REA						0.34	0.40						0.70				
HCW							0.21							0.75			
FAT								0.26	0.15							0.70	0.48
MARB									0.36				0.68				
CE										0.24	-0.06						
MCE											0.16						
IMF												0.23					
REA													0.39				
SCAN WT														0.27			
FAT THICK															0.35		
RUMP FAT																0.38	

GENETIC TREND

This chart lists the genetic trend for birth weight, weaning weight, yearling weight and maternal milk.

YEAR	BWT	WWT	YWT	MILK	SC	TOTMAT	CE	MCE	CWT	REA	FAT	MARB
1990	0.9	6.1	11.2	0.3	0.01	3.3	-2.1	0.7	3.9	0.03	-0.002	0.00
1991	1.0	7.1	13.0	0.6	0.03	4.2	-1.9	1.1	4.6	0.03	-0.003	0.00
1992	1.0	8.0	14.3	0.9	0.05	4.9	-1.8	1.3	5.0	0.04	-0.003	0.01
1993	1.1	8.8	15.8	1.2	0.08	5.6	-1.7	1.5	5.5	0.05	-0.003	0.01
1994	1.1	9.7	17.3	1.6	0.10	6.4	-1.3	1.9	6.0	0.05	-0.003	0.01
1995	1.1	10.6	18.7	2.1	0.12	7.4	-1.2	1.9	6.5	0.06	-0.003	0.01
1996	1.0	11.6	20.4	2.7	0.15	8.5	-0.8	2.2	7.0	0.07	-0.003	0.01
1997	1.0	12.5	22.0	3.2	0.19	9.4	-0.5	2.5	7.6	0.08	-0.003	0.00
1998	0.9	13.5	23.6	3.4	0.22	10.1	-0.1	2.7	8.0	0.08	-0.003	0.00
1999	0.9	14.5	25.1	4.0	0.25	11.2	0.3	2.9	8.4	0.09	-0.002	0.01
2000	0.9	15.5	26.8	4.4	0.29	12.1	0.9	3.2	9.0	0.09	-0.002	0.01
2001	0.9	16.7	28.8	4.7	0.33	13.0	1.0	3.2	9.8	0.11	-0.002	0.01
2002	0.9	18.2	31.4	5.0	0.37	14.1	1.4	3.3	10.5	0.11	-0.002	0.01
2003	0.8	19.1	33.0	5.3	0.41	14.9	1.7	3.4	11.1	0.12	-0.002	0.01
2004	0.8	20.0	34.7	5.5	0.45	15.4	1.9	3.4	11.5	0.13	-0.001	0.01
2005	0.8	20.8	36.2	5.7	0.47	16.1	2.0	3.5	11.9	0.14	-0.001	0.01
2006	0.7	21.7	37.9	6.0	0.51	16.9	2.2	3.5	12.5	0.15	-0.001	0.01
2007	0.7	22.5	39.3	6.3	0.54	17.5	2.4	3.5	12.9	0.16	0.000	0.01
2008	0.7	23.4	41.1	6.5	0.57	18.2	2.5	3.5	13.5	0.17	0.000	0.01
2009	0.6	24.2	42.3	6.4	0.59	18.5	2.8	3.5	14.1	0.18	-0.001	0.01
2010	0.5	25.0	44.1	6.7	0.63	19.2	2.8	3.1	14.9	0.19	0.002	0.02

EPD DISTRIBUTION TABLES

ACTIVE SIRE EPD DISTRIBUTION					
Trait	N	Average	Std Dev	Min	Max
BWT	3,436	0.6	2.19	-10.2	9.9
WWT	3,436	24.9	10.24	-21	67
YWT	3,436	43.7	17.82	-28	107
MAT	3,436	6.7	6.64	-18	28
TOT MAT	3,436	19.1	8.46	-8	45
SC	3,436	0.61	0.39	-0.8	2.4
CE	3,410	2.8	5.22	-18.1	21
MCE	3,410	3.5	4.14	-25.5	16.4
HCW	3,377	11.9	9.96	-25	49
REA	3,377	0.15	0.22	-0.70	1.20
FAT	3,377	-0.001	0.017	-0.066	0.074
MARB	3,377	0.01	0.12	-0.48	0.53

ACTIVE DAM EPD DISTRIBUTION					
Trait	N	Average	Std Dev	Min	Max
BWT	37,484	0.8	1.9	-8.2	10.2
WWT	37,484	21.5	9.09	-26	61
YWT	37,484	37.2	15.88	-37	107
MAT	37,484	6.3	6.27	-21	34
TOT MAT	37,484	17.0	8.2	-17	53
SC	37,484	0.50	0.33	-0.8	1.8
CE	37,100	2.0	4.76	-23.4	18.0
MCE	37,100	3.3	4.28	-30.5	15.4
HCW	27,134	9.3	8.47	-26	48
REA	27,134	0.10	0.17	-0.78	0.95
FAT	27,134	-0.002	0.013	-0.052	0.144
MARB	27,134	0.01	0.09	-0.39	0.48

NON PARENT EPD DISTRIBUTION (last 2 years)					
Trait	N	Average	Std Dev	Min	Max
BWT	80,102	0.6	2	-9.8	9.9
WWT	80,102	24.0	8.64	-25	59
YWT	80,102	42.1	14.92	-34	112
MAT	80,102	6.5	5.28	-15	33
TOT MAT	80,102	18.5	6.93	-8	50
SC	80,102	0.59	0.3	-0.8	2.4
CE	78,029	2.7	4.68	-23.9	20.5
MCE	78,029	3.5	3.66	-28.1	14.4
HCW	7,320	14.1	8.46	-18	50
REA	7,320	0.20	0.20	-0.56	1.03
FAT	7,320	0.000	0.015	-0.050	0.063
MARB	7,320	0.03	0.10	-0.32	0.41

CARCASS EPD INTRODUCTION

Carcass traits evaluated in the AICA Genetic Analysis for carcass merit include Carcass Weight, Fat Thickness, Ribeye Area and Marbling. The records were analyzed using multiple trait animal models that included genetic relationships between animals and traits. Carcass and ultrasound records represents the combined efforts of breeders that have conducted their own structured sire evaluation program, submitted carcass data on non-replacement Charolais heifers and steers, reported ultrasound scan data on yearling heifers and bulls, along with carcass data from the AICA Sire Evaluation Program (SEP).

To include more sires in the analysis it is important that Charolais breeders continue collecting and reporting carcass information on fed progeny and ultrasound data on yearling replacement heifers and bulls to AICA. For more information on carcass data collection or ultrasound scanning of yearling bulls and heifers please contact the AICA Director of Breed Improvement programs.

USING CARCASS EPD

The objective of a carcass evaluation is to provide genetic information that will aid the producer in making selection decisions based on carcass merit. Used properly Carcass EPD provide the best information available to make directional change for carcass merit in breeding programs. Breeders should be cautioned about the dangers of single trait selection for any trait. Genetic correlations exist between many economically important traits, and not all are favorable. Producers should select for multiple traits that have direct impact on the profitability of their enterprise.

Records were adjusted to an age constant endpoint. Therefore selection based on any or all of the carcass merit EPD are comparable among cattle at the same age endpoint. For example selection based on increased EPD for carcass weight will result in heavier carcass weights than those animals with lower EPD for carcass weights when the cattle are harvested at the same age.

Progeny. The number of progeny records that contributed to the genetic analysis for carcass weight. The number of progeny that contributed to the other carcass traits may be slightly different due to lost or edited data.

Carcass Weight EPD (HCW). Expected Progeny Differences for Carcass weight is a predictor of pounds of retail product at a constant age endpoint. Selection for increased values should result in heavier carcasses, while selection for decreased values should result in lighter carcass weights at the same age endpoint. Carcass Weight EPD are expressed in pounds and is a predictor of the differences in hot carcass weight between sires progeny at an age constant endpoint.

Ribeye Area (REA). Ribeye area is measured from a cross-sectional area of the longissimus dorsi muscle at the 12th rib. Ribeye area is a major component of the USDA yield grade equation and selection for increased ribeye area should result in larger ribeyes and lower yield grades between animals with the same carcass weight. Ribeye area has a positive relationship with weight, the larger an animal the larger the ribeye area. Ribeye Area EPD are expressed in square inches and is a predictor of differences in ribeye area between sires progeny at a constant age endpoint.

Fat Thickness (FAT). Fat thickness is measured at the 12th rib and is the primary component to the USDA Yield Grade equation. Fat thickness has a negative relationship to cutability; therefore, selection based on decreased fat thickness should result in lower yield grades and leaner cattle given the same age endpoint. Fat Thickness EPD are expressed in inches and are a predictor of differences in fat thickness between sires progeny at an age constant endpoint.

Marbling Score (MARB). Marbling is a subjective measure of the amount of intramuscular fat in the ribeye muscle. Marbling score is the primary component of USDA Quality grade and selection for increased Marbling Score EPD should result in cattle with higher quality grades at the same age endpoints. Marbling score has a small genetic correlation with fat, therefore producers may select for increased marbling score EPD while not changing external fat thickness when cattle are harvested at the same age-constant endpoint. Marbling EPD is a prediction of the differences in the USDA subjective marbling score between sires progeny at an age constant endpoint. Marbling EPD is expressed in the same units as the USDA Marbling Score, see the accompanying table for USDA Marbling Score.

USDA QUALITY GRADING SYSTEM AND MARBLING SCORE

Quality Grade	Amount of Marbling	Numerical Score
Prime +	Abundant	10.0 - 10.9
Prime	Moderately Abundant	9.0 - 9.9
Prime -	Slightly Abundant	8.0 - 8.9
Choice +	Moderate	7.0 - 7.9
Choice	Modest	6.0 - 6.9
Choice -	Small	5.0 - 5.9
Select	Slight	4.0 - 4.9
Standard	Traces	3.0 - 3.9
Standard	Practically Dvoid	2.0 - 2.9
Utility	Devoid	1.0 - 1.9

PERCENTILE BREAKDOWNS

EPD Percentile Breakdown for Active Sires												
Top %	BWT	WWT	YWT	MAT	TOT MAT	SC	CE	MCE	HCW	REA	FAT	MARB
1	≤ -5.7	≥ 47.9	≥ 84.1	≥ 21.8	≥ 39.1	≥ 1.5	≥ 14.2	≥ 11.8	≥ 36.4	≥ 0.74	≤ -0.040	≥ 0.32
2	-4.5	45.3	79.5	20.5	36.5	1.4	12.7	10.5	32.1	0.64	-0.035	0.26
3	-4.0	43.5	76.7	19.3	35.1	1.3	11.8	9.9	30.6	0.58	-0.031	0.24
4	-3.4	42.3	74.3	18.3	33.8	1.3	11.3	9.5	29.5	0.55	-0.029	0.22
5	-3.1	41.5	72.1	17.5	32.8	1.2	10.8	9.2	28.4	0.52	-0.027	0.21
6	-2.9	40.5	70.7	16.7	31.9	1.2	10.3	8.8	27.6	0.49	-0.025	0.19
7	-2.6	39.8	69.5	16.2	31.3	1.2	10.0	8.6	26.8	0.47	-0.024	0.18
8	-2.4	38.9	68.5	15.9	30.6	1.1	9.7	8.4	26.1	0.46	-0.023	0.17
9	-2.3	38.3	67.1	15.5	30.0	1.1	9.5	8.2	25.3	0.44	-0.022	0.17
10	-2.1	37.5	66.2	15.2	29.5	1.1	9.2	8.0	24.5	0.43	-0.021	0.16
15	-1.5	35.1	61.8	13.7	27.6	1.0	8.0	7.3	21.9	0.37	-0.017	0.13
20	-1.0	33.2	57.9	12.1	26.2	0.9	7.1	6.8	19.7	0.32	-0.014	0.10
25	-0.6	31.5	55.3	11.0	25.0	0.9	6.3	6.3	18.2	0.28	-0.012	0.08
30	-0.3	30.0	52.7	10.0	23.8	0.8	5.6	5.8	16.8	0.25	-0.010	0.06
35	0.0	28.7	50.4	9.2	22.5	0.8	4.9	5.3	15.6	0.22	-0.008	0.05
40	0.3	27.4	48.3	8.3	21.4	0.7	4.2	4.8	14.4	0.19	-0.005	0.04
45	0.5	26.3	46.1	7.5	20.4	0.7	3.6	4.4	13.1	0.17	-0.004	0.02
50	0.8	25.2	43.9	6.7	19.3	0.6	3.1	4.0	12.0	0.14	-0.002	0.01
55	1.0	24.0	41.7	5.9	18.2	0.6	2.5	3.5	10.7	0.12	0.000	0.00
60	1.3	22.8	40.0	5.0	17.1	0.5	1.9	3.1	9.4	0.09	0.002	-0.02
65	1.5	21.6	37.7	4.2	16.0	0.5	1.2	2.6	8.1	0.06	0.004	-0.03
70	1.8	20.3	35.8	3.3	15.0	0.4	0.5	2.0	6.9	0.04	0.006	-0.05
75	2.0	18.8	32.8	2.4	13.5	0.4	-0.3	1.4	5.7	0.01	0.009	-0.06
80	2.3	16.9	29.4	1.0	12.1	0.3	-1.2	0.6	4.1	-0.02	0.012	-0.08
85	2.7	14.7	25.9	-0.3	10.5	0.2	-2.4	-0.2	2.1	-0.07	0.015	-0.11
90	3.2	11.8	20.8	-1.9	8.1	0.1	-3.8	-1.5	-0.5	-0.12	0.019	-0.13
95	4.0	7.7	13.8	-4.4	4.6	-0.1	-6.1	-3.9	-4.3	-0.20	0.027	-0.18
100	9.9	-20.6	-27.5	-18.4	-8.2	-0.8	-18.1	-25.5	-25.1	-0.70	0.074	-0.48

This chart is applicable to all active bulls that have progeny registered with the AICA.

Percentile breakdowns make it possible to determine where an animal ranks within the Charolais breed, based on its EPD. For example, if your herd sire's WWT EPD is +24, he would rank in the top 55 percent for active Charolais sires for weaning weight.

EPD Percentile Breakdown for Active Dams												
Top %	BWT	WWT	YWT	MAT	TOT MAT	SC	CE	MCE	HCW	REA	FAT	MARB
1	≤ -4.1	≥ 41.6	≥ 72.7	≥ 20.8	≥ 35.9	≥ 1.3	≥ 11.9	≥ 11.3	≥ 29.6	≥ 0.53	≤ -0.031	≥ 0.25
2	-3.4	39.4	68.7	19.1	33.7	1.2	10.8	10.4	26.9	0.47	-0.027	0.22
3	-3.0	37.9	66.0	17.9	32.2	1.1	10.2	9.9	25.3	0.44	-0.025	0.20
4	-2.6	36.8	64.1	17.2	31.2	1.1	9.6	9.5	24.1	0.41	-0.024	0.18
5	-2.4	35.9	62.5	16.5	30.4	1.0	9.2	9.2	23.2	0.39	-0.022	0.17
6	-2.2	35.1	61.1	15.9	29.6	1.0	8.8	8.9	22.4	0.37	-0.021	0.16
7	-2.0	34.4	60.0	15.5	28.9	1.0	8.5	8.7	21.7	0.36	-0.020	0.15
8	-1.8	33.8	58.9	15.0	28.4	1.0	8.2	8.4	21.1	0.34	-0.019	0.14
9	-1.7	33.2	57.9	14.6	27.9	0.9	7.9	8.2	20.5	0.33	-0.019	0.14
10	-1.6	32.8	57.1	14.2	27.4	0.9	7.7	8.1	20.1	0.32	-0.018	0.13
15	-1.1	30.7	53.4	12.7	25.4	0.8	6.7	7.3	17.8	0.27	-0.015	0.10
20	-0.7	29.1	50.5	11.5	23.9	0.8	5.9	6.7	16.2	0.24	-0.013	0.09
25	-0.3	27.7	48.1	10.4	22.6	0.7	5.2	6.1	14.8	0.21	-0.011	0.07
30	0.0	26.4	45.7	9.5	21.4	0.7	4.6	5.7	13.6	0.19	-0.009	0.06
35	0.2	25.2	43.7	8.7	20.3	0.6	4.0	5.2	12.5	0.16	-0.007	0.05
40	0.5	24.0	41.6	7.9	19.3	0.6	3.4	4.8	11.4	0.14	-0.006	0.03
45	0.7	22.9	39.6	7.1	18.1	0.5	2.9	4.3	10.4	0.12	-0.004	0.02
50	0.9	21.8	37.6	6.3	17.1	0.5	2.3	3.8	9.4	0.10	-0.003	0.01
55	1.1	20.7	35.6	5.5	16.1	0.5	1.8	3.4	8.4	0.08	-0.001	0.00
60	1.3	19.6	33.7	4.7	15.1	0.4	1.2	2.9	7.3	0.06	0.000	-0.01
65	1.5	18.4	31.6	3.9	13.9	0.4	0.6	2.3	6.2	0.03	0.002	-0.02
70	1.8	17.1	29.4	3.0	12.8	0.3	-0.1	1.8	5.1	0.01	0.004	-0.03
75	2.0	15.6	26.9	2.1	11.5	0.3	-0.8	1.1	3.9	-0.01	0.006	-0.05
80	2.3	14.0	24.0	1.0	10.1	0.2	-1.7	0.3	2.5	-0.04	0.008	-0.06
85	2.7	12.1	20.7	-0.2	8.4	0.1	-2.7	-0.7	0.8	-0.07	0.011	-0.08
90	3.1	9.6	16.5	-1.7	6.4	0.1	-4.1	-2.2	-1.4	-0.11	0.015	-0.10
95	3.8	5.8	10.0	-4.1	3.3	0.0	-6.4	-4.7	-4.8	-0.18	0.020	-0.01
100	10.2	-26.4	-36.5	-21.2	-17.1	-0.8	-23.4	-30.5	-26.3	-0.78	-0.052	-0.39

This chart is applicable to all active cows that have progeny registered with the AICA.

EPD Percentile Breakdown for Non-Parent												
TOP %	BW	WW	YW	Milk	TM	SC	CE	MCE	HCW	REA	FAT	MARB
1	≤ -4.8	≥ 43.7	≥ 76.2	≥ 18.7	≥ 34.9	≥ 1.3	≥ 12.8	≥ 10.6	≥ 34.6	≥ 0.71	≤ -0.031	≥ 0.25
2	-4.0	41.3	72.0	17.4	32.7	1.2	11.6	9.8	31.7	0.63	-0.028	0.23
3	-3.5	39.8	69.4	16.5	31.5	1.2	10.9	9.3	30.0	0.59	-0.026	0.21
4	-3.1	38.7	67.4	15.8	30.6	1.1	10.3	8.9	28.9	0.56	-0.024	0.20
5	-2.9	37.9	65.9	15.2	29.8	1.1	9.8	8.6	28.1	0.53	-0.023	0.19
6	-2.6	37.2	64.7	14.8	29.2	1.0	9.4	8.3	27.4	0.51	-0.022	0.18
7	-2.4	36.5	63.6	14.4	28.6	1.0	9.1	8.1	26.6	0.50	-0.021	0.17
8	-2.2	35.9	62.6	14.0	28.2	1.0	8.8	7.9	25.9	0.49	-0.020	0.16
9	-2.0	35.3	61.7	13.6	27.7	1.0	8.5	7.8	25.4	0.47	-0.019	0.16
10	-1.9	34.8	60.8	13.3	27.3	1.0	8.3	7.6	24.8	0.46	-0.019	0.15
15	-1.3	32.8	57.3	12.0	25.6	0.9	7.2	6.9	22.7	0.41	-0.016	0.13
20	-0.9	31.1	54.6	10.9	24.3	0.8	6.5	6.4	21.0	0.37	-0.013	0.11
25	-0.5	29.7	52.2	10.1	23.2	0.8	5.8	5.9	19.6	0.33	-0.011	0.09
30	-0.2	28.5	49.9	9.3	22.2	0.7	5.2	5.5	18.5	0.30	-0.009	0.08
35	0.0	27.4	47.9	8.6	21.2	0.7	4.6	5.0	17.3	0.27	-0.007	0.06
40	0.3	26.3	46.0	7.9	20.3	0.7	4.0	4.6	16.2	0.24	-0.005	0.05
45	0.5	25.2	44.2	7.2	19.4	0.6	3.5	4.3	15.2	0.22	-0.003	0.04
50	0.7	24.2	42.3	6.5	18.6	0.6	3.0	3.9	14.1	0.20	-0.001	0.03
55	0.9	23.1	40.5	5.8	17.7	0.6	2.4	3.5	13.1	0.17	0.001	0.01
60	1.2	22.0	38.6	5.2	16.8	0.5	1.9	3.0	12.0	0.15	0.003	0.00
65	1.4	20.9	36.7	4.5	15.9	0.5	1.3	2.6	10.9	0.12	0.005	-0.01
70	1.6	19.7	34.6	3.7	14.9	0.4	0.6	2.1	9.8	0.09	0.008	-0.03
75	1.9	18.4	32.4	2.9	13.9	0.4	-0.1	1.5	8.6	0.06	0.010	-0.04
80	2.2	16.9	29.9	2.0	12.7	0.3	-0.9	0.9	7.1	0.03	0.013	-0.06
85	2.5	15.2	27.0	1.0	11.3	0.3	-1.9	0.0	5.4	0.00	0.017	-0.08
90	3.0	12.9	23.0	-0.3	9.6	0.2	-3.3	-1.1	3.3	-0.05	0.021	-0.10
95	3.7	9.4	17.0	-2.2	7.1	0.1	-5.5	-3.1	0.3	-0.11	0.028	-0.14
100	9.9	-25.1	-33.6	-15.3	-7.8	-0.8	-23.9	-28.1	-18.4	-0.56	0.063	-0.32

This chart is applicable to all active heifers and bulls born in the last two years that do not have progeny registered with the AICA.

P H E N O T Y P I C T R E N D S

Includes all animals in the AICA Performance Database used in computation of EPD

YEAR	MALES				FEMALES			
	BWT	WWT	GAIN	YWT	BWT	WWT	GAIN	YWT
1990	92	634	494	1131	88	580	287	871
1991	92	634	491	1124	88	580	298	876
1992	92	645	486	1134	88	591	292	882
1993	92	643	495	1151	87	592	288	882
1994	91	637	493	1135	87	584	290	875
1995	91	635	481	1128	87	583	287	871
1996	90	626	484	1114	86	574	282	861
1997	90	634	495	1141	86	579	293	884
1998	90	635	498	1143	85	582	300	888
1999	89	648	519	1175	85	592	310	906
2000	89	657	500	1166	85	598	304	913
2001	89	652	499	1159	85	596	299	902
2002	89	654	507	1171	85	594	312	914
2003	89	653	503	1172	85	596	308	912
2004	89	669	511	1193	84	603	291	906
2005	89	665	513	1195	85	600	314	923
2006	89	674	499	1185	84	607	307	913
2007	89	665	503	1182	84	595	300	898
2008	88	665	503	1191	84	601	280	887
2009	89	671	498	1186	84	605	281	892
2010	89	681			85	613		

Phenotypic Distribution for Carcasses in the Charolais Database. Adjusted to 480 days (Steers).

Trait	No. of Records	Avg	Std. Dev	Min	Max
Hot Carcass Weight (HCW)	6,852	803	97.03	410	1135
Ribeye Area (REA)	7,032	14.06	1.58	9.10	20.10
Fat Thickness (FAT)	6,999	0.40	0.17	0.01	2.22
Marbling (MARB)	6,985	4.95	0.94	1.10	10.00

Phenotypic Distribution for Carcasses in the Charolais Database. Adjusted to 480 days (Heifers).

Trait	No. of Records	Avg	Std. Dev	Min	Max
Hot Carcass Weight (HCW)	6,852	803	97.03	410	1135
Ribeye Area (REA)	7,032	14.06	1.58	9.10	20.10
Fat Thickness (FAT)	6,999	0.40	0.17	0.01	2.22
Marbling (MARB)	6,985	4.95	0.94	1.10	10.00

Phenotypic Distribution for Ultrasound (Bulls) in the Charolais Database. Adjusted to 365 days.

Trait	No. of Records	Avg	Std. Dev	Min	Max
Scan Weight	31,799	1144	132.5	405	1653
Ribeye Area	32,316	13.60	1.83	5.70	20.70
Rib Fat Thickness	29,876	0.17	0.06	0.04	0.60
Rump Fat Thickness	25,563	0.18	0.06	0.03	0.50
% IMF	31,150	2.75	0.64	0.65	6.04

Phenotypic Distribution for Ultrasound (Heifers) in the Charolais Database. Adjusted to 365 days.

Trait	No. of Records	Avg	Std. Dev	Min	Max
Scan Weight	8,374	852	107.4	424	1438
Ribeye Area	8,367	10.33	1.57	5.80	17.00
Rib Fat Thickness	7,531	0.16	0.06	0.03	0.47
Rump Fat Thickness	6,526	0.21	0.08	0.03	0.58
% IMF	8,152	3.29	0.78	0.95	6.73

G L O S S A R Y

Accuracy- the correlation between an animal's unknown actual breeding value and a calculated estimated breeding value. This figure will range between 0.0 and 1.0.

Backsolution EPD (BKS)- a matrix technique that is used with the Reduced Animal Model to obtain breeding values of non-parents by back-solving from the predicted parental breeding values. A BKS EPD is exactly the same as it would be from the full model.

Correlation- a measure of how two (2) traits vary or influence each other. Correlations range from -1.0 to +1.0. A positive correlation indicates that as one trait increases the other trait increases, and a negative correlation indicates that as one trait increases the other trait decreases. A correlation of, or around 0.0 indicates that neither trait influences the other.

Contemporary group- the proper identification of contemporary groups is of critical importance to the overall accuracy of the analysis. Contemporary groups are defined as 1) animals of the same sex, 2) animals of similar ages (usually not more than a 90-day spread in birth dates), and 3) animals managed together and given equal opportunity to perform (same pasture, same weigh dates, etc.).

Deviation- the difference between an individual record and the average for that trait for that contemporary group.

Environmental effects- all external (non-genetic) conditions that influence the reproduction, performance and carcass merit of cattle. These effects are accounted for in EPD calculation so that animals of the same breed from different parts of the country can be compared.

Expected Progeny Difference (EPD)- the difference in performance to be expected from future progeny of an individual, compared with the average. EPD is an estimate based on available performance data and is equal to one-half the estimate of breeding value. EPDs are generally reported in the units of measure of the trait (e.g., lb., cm., etc.).

Genes- the basic units of heredity that occur in pairs and have their effect in pairs in the individual, but which are transmitted singly from each parent to the offspring.

Genetic correlations- correlations between two traits that arise because some of the same genes affect both traits. When two traits (i.e., weaning and yearling weight) are positively and highly correlated to one another, successful selection for one will result in an increase in the other trait. When two traits are negatively and highly correlated, successful selection for one will result in a decrease in the other trait.

Genotype- actual genetic makeup of an individual determined by its genes or germplasm.

Genotype-environment interaction- variation in the relative performance of different genotypes from one environment to another. For example, the best cattle (genotypes) for one environment may not be the best cattle for another environment.

Half sibs- individuals having the same sire or dam. Half brothers and/or half sisters.

Heritability- the proportion of the differences among cattle, measured or observed, that is transmitted to the offspring. Heritability varies from 0.0 to 1.0. the higher the heritability of a trait, the more accurately the independent performance predict breeding value and the more rapid should be the response due to selection for the trait.

Heterosis (hybrid vigor)- amount by which measured traits of the crossbreds exceed the average of the two or more purebreds that are mated to produce the crossbreds.

Heterozygous- genes of a specific pair that are different in an individual. This gene combination has one gene that is dominant and one gene that is recessive (e.g., a bull that is heterozygous polled has the following gene combination, Pp, P=polled, p=horned).

Homozygous- genes of a specific pair that are alike in an individual. This gene combination expresses both genes in either the dominant or recessive form (e.g., PP=polled or pp=horned).

Intensity of selection- the difference between the selected animals and the average of the animals from which they came, expressed relative to the amount of variation in the traits. Intensity is a function of the fraction of a population saved as replacements.

Interim EPD- An expected progeny difference computed from an individual's own performance information and (or) the EPD of its parents. Interim EPD may be used to support selection and merchandizing decisions before EPD from regularly scheduled national cattle evaluation runs become available.

National Cattle Evaluation- Programs of cattle evaluation conducted by breed associations to compute estimated genetic merit of a population of animals. Carefully conducted national cattle evaluation programs give unbiased estimates of expected progeny differences (EPD). Cattle evaluations are based on field data and rely on information from the individual animal, relatives, and progeny to calculate EPD.

Number of contemporaries- the number of animals of the same breed, sex and age, against which an animal was compared in performance tests. The greater the number of contemporaries, the greater the accuracy of comparisons.

Optimum level of performance- the most profitable or favorable ranges in levels of performance for the economically important traits in a given environment and management system. For example, matching the mature size and milk production of a cow to her environment and available feed stuffs, to maximize her fertility and productivity.

Pedigree- a record of the names of the ancestors of an individual.

Pedigree estimate EPD (PE)- an EPD that is calculated by taking half of the EPD from each parent for a particular trait and adding them together. The resulting EPD has no accuracy value associated with it.

Performance pedigree- a pedigree that includes performance records of ancestors, half and full sibs, and progeny in addition to the usual pedigree information.

Performance testing- the systematic collection of comparative production information for use in decision making to improve efficiency and profitability in beef production. Differences in performance among cattle must be used in decision making for performance testing to be beneficial. The most useful performance records for management, selection and promotion decisions will vary among breeders.

Phenotype- the visible or measurable expression of a character; for example, weaning weight, post-weaning gain, reproduction, etc. Phenotype is influenced by genotype and environment.

Phenotypic correlations- correlations between two traits caused by both genetic and environmental factors influencing both traits.

Polled- naturally hornless cattle. Having no horns or scurs.

Possible change- the variation (either plus or minus) that is possible for each expected progeny difference (EPD). This measurement of error in prediction or estimation of EPD decreases as the number of progeny, with usable performance records, from a sire increases.

Progeny- the offspring of an animal.

Progeny records- the average, comparative performance of the progeny of sires and dams.

Progeny testing- evaluating the genotype of an individual by a study of its progeny.

Rate of genetic improvement- rate of improvement per unit of time (year). The rate of improvement is dependent upon: (1) heritability of traits considered; (2) selection differentials; (3) genetic correlations among traits considered; (4) generation interval in the herd; (5) the number of traits for which selections are made.

Scurs- horny tissue of rudimentary horns that are attached to the skin rather than the bony parts of the head.

Selection differential- the difference between the average for a trait in selected cattle and the average for the group from which they came.

Selection index- a formula that combines performance records from several traits or different measurements of the same trait into a single value for each animal.

Sibs- brothers and sisters of an individual.

Sire summary- published results of national sire evaluation programs.

Trait ratio- an expression of an animal's performance for a particular trait relative to the herd or contemporary group average. It is usually calculated for most traits as:

$$\frac{\text{Individual record}}{\text{Average of animals in group}} \times 100$$

Variance- a statistic that describes the variation we see in a trait. Without variation, no genetic progress is possible, since genetically superior animals would not be distinguishable from genetically inferior ones.

TRAIT LEADERS

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
WCR BOOTS ON3 POLLED 03/05/1995 M 423097 RAC NINTENDO G1249 POLD	SAND HILL CHAROLAIS INC HCR 1 BOX 69 BOISE CITY OK 73933	2 370 58	21 0.80	-10.2 0.87	-4 0.81	-10 0.23	0 0.62	14 0.53	-2	0.1 PE	0 0	N/A	N/A	N/A	N/A
BAR S HIGH NOON 68L PLD 02/14/2001 M 622467 BALDRIDGE FASTTRACK 82F	BAR S RANCH 5302 182ND ST PARADISE KS 67658	2 115 8	19 0.66	-5.8 0.77	4 0.66	-4 0.39	15 0.34	11 0.29	18	-0.1 0.36	0 24 1	-20 0.31	-0.55 0.31	-0.003 0.28	0.00 0.27
CMF 192 WRANGLER 256 11/22/2000 M 615145 BALDRIDGE FASTTRACK 82F	YOST FARMS RT 4 BOX 186 KINGFISHER OK 73750	18 156 6	18 0.65	-5.6 0.79	26 0.68	46 0.61	11 0.29	11 0.31	24	0.8 0.51	0 23 3	11 0.31	0.04 0.30	0.005 0.27	-0.06 0.25
ACF DUKE 422 POLL 03/12/2004 M 684791 BALDRIDGE KOJACK 29K	AMBURGEY CHAROLAIS FARM 3171 CAMARGO RD MT STERLING KY 40353	1 119 2	17 0.61	-6.5 0.77	17 0.66	25 0.65	15 0.26	9 0.21	23	0.1 PE	0 0 0	6 PE	-0.09 PE	-0.013 PE	0.00 PE
SCHURRTOP JK 2201-2283P 03/13/2001 M 424670 SCHURRTOP JK 5627 2201P	RAY D WIND & SONS 72354 Q RD HOLDREGE NE 68949-3449	1 162 25	16 0.72	-5.7 0.81	17 0.72	39 0.69	9 0.48	14 0.43	18	0.9 0.54	0 0 0	13 BK	0.38 BK	0.007 BK	0.01 BK
NWMSU DOC SILVER 362 PLD 03/07/2003 M 669488 S\$ MONTANA SILVER	BJR SUMMERFORD CHAROLAIS FALKVILLE AL HUBERT CHAROLAIS RANCH OAKLEY KS	28 427 62	15 0.78	-4.8 0.87	33 0.80	64 0.76	1 0.53	10 0.56	18	0.3 0.66	25 186 13	18 0.50	-0.16 0.55	0.055 0.50	0.25 0.53
JES CORONA J370 04/04/1999 M 498013 HCR CORONA 2105 POLLED	JEROME (JERRY) M STOUT 21804 SD HWY 248 KADOKA SD 57543	2 172 34	15 0.72	-5.8 0.81	23 0.73	45 0.73	17 0.50	6 0.43	28	0.7 0.34	0 20 1	8 0.26	-0.13 0.25	-0.005 0.22	-0.08 0.18
WCCC-RC PROMISEKEEPER0323 02/24/2003 M 679955 SCR ROCKER 1755 PLD	WOODEN CROSS CATTLE CO 557 190TH ROAD HILLSBORO KS 67063	7 186 23	15 0.69	-3.9 0.81	12 0.70	26 0.68	5 0.38	11 0.36	11	0.5 0.29	0 0 0	8 BK	0.15 BK	-0.015 BK	-0.09 BK
GC EASY SUPREME F59 03/17/2005 M 709844 GCR D8	GRAU CHAROLAIS 1680 CR 37 GRADY NM 88120	3 60 2	15 0.58	-9.2 0.69	-5 0.55	-4 0.12	6 0.17	5 0.13	4	0.3 PE	0 0 0	N/A	N/A	N/A	N/A
BALDRIDGE FASTTRACK 82F 02/10/1996 M 447863 LT UNLIMITED EASE 9108	L R WAKEFIELD & SONS NEW RICHLAND MN JERRY D VAUGHAN DERBY KS MITCHELL R COX CAMPBELLSVILLE KY	414 3722 840	14 0.91	-2.9 0.96	26 0.93	39 0.90	16 0.87	8 0.84	29	-0.1 0.81	48 436 66	10 0.59	-0.04 0.65	0.019 0.59	-0.07 0.63
THREE TREES WIND 0383 ET 09/15/2000 M 637722 LT WYOMING WIND 4020 PLD	CROSTIMBER CATTLE CO CANTON TX LINDSKOV-THIEL CHAROLAIS ISABEL SD ANDREW DOUB DANVILLE INDIANA KEVIN MOORE ALVARADO TX	87 555 67	14 0.78	-2.8 0.89	25 0.81	56 0.71	4 0.52	8 0.52	17	1.0 0.58	0 69 21	14 0.36	0.16 0.35	0.012 0.32	0.05 0.31
NF POWERBALL II POLLED 01/02/1996 M 432926 ASC ELIMINATOR 032	NOLLER & FRANK 405 W KELLY STREET SIGOURNEY IA 52591	33 357 83	14 0.71	-1.2 0.86	22 0.78	20 0.68	-10 0.62	9 0.54	1	0.2 0.48	33 49 7	5 0.49	-0.21 0.56	0.002 0.50	-0.11 0.54
LT EASY AIR 3920 PLD ET 03/27/2003 M 671248 LT UNLIMITED EASE 9108	CLARK ALAN BREVIG LEWISTOWN MT LINDSKOV-THIEL CHAROLAIS ISABEL SD	5 207 17	14 0.62	-3.5 0.82	18 0.72	17 0.57	7 0.38	9 0.41	16	0.5 0.54	0 60 4	-1 0.34	-0.29 0.34	0.005 0.31	0.04 0.29
HCR PHOENIX 8007 POLLED 02/11/1998 M 479933 LT UNLIMITED EASE 9108	JOHN F ALLISON P O BOX 124 NEW CASTLE KY 40050	2 103 10	14 0.61	-3.2 0.76	22 0.66	32 0.27	11 0.37	7 0.30	22	0.4 0.22	0 0 0	12 PE	0.13 PE	0.008 PE	-0.03 PE
RC PHASE 450 PD 02/21/2004 M 686837 LT DISTANCE 5025 PLD	RAMBUR CHAROLAIS SIDNEY MT CREEKSIDE CHAROLAIS HOLYOKE CO	1 172 0	13 0.64	-3.8 0.80	-2 0.72	14 0.55	13 0.24	11 0.18	12	0.2 PE	0 29 1	-2 0.31	-0.09 0.31	0.021 0.28	0.21 0.26
LT PRIMED 0262 PLD 04/13/2000 M 517206 WCR PRIME CUT 764 PLD	BIERLE CHAROLAIS BOX 15 LESTERVILLE SD 57040	1 145 7	13 0.58	-2.7 0.79	27 0.70	62 0.57	9 0.32	7 0.28	23	0.8 PE	0 2 1	22 0.28	-0.14 0.27	0.019 0.24	0.05 0.23
LT UNLIMITED EASE 9108 04/17/1989 M 301930 BCR POLLED UNLIMITED 003	THOUSAND OAKS RANCH CARTHAGE MO LINDSKOV-THIEL CHAROLAIS ISABEL SD ABS GLOBAL INC DE FOREST WI	375 3810 1070	12 0.92	-2.1 0.96	23 0.94	28 0.91	8 0.89	-1 0.86	20	0.6 0.81	67 498 78	7 0.64	-0.06 0.70	0.011 0.65	0.12 0.69
BALDRIDGE KOJACK 29K 01/16/2000 M 602060 BALDRIDGE FASTTRACK 82F	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	232 1532 234	12 0.87	-4.2 0.93	29 0.89	46 0.83	21 0.73	6 0.69	36	-0.6 0.64	7 125 41	3 0.42	-0.21 0.47	-0.003 0.42	-0.04 0.42
BBCR MIGHTY MAN 836 PLD 03/27/1996 M 445862 HCR MAC 0177 POLLED	ALVIE FRED 42327 RD 800 MERNNA NE 68856	13 390 79	12 0.72	-6.5 0.87	16 0.81	37 0.81	17 0.63	4 0.57	26	0.0 0.62	23 41 4	8 0.47	0.44 0.52	-0.037 0.46	-0.18 0.50
EC NO DOUBT 2022 P 03/10/2004 M 685500 M6 GRID MAKER 104 PET	GENEX COOPERATIVE INC SHAWANO WI JAMIE EGGLESTON WESSINGTON SD CARSTENS FARMS LTD ADAIR IA	40 408 27	12 0.71	-0.2 0.87	34 0.80	71 0.72	10 0.41	8 0.38	27	0.7 0.51	0 60 12	27 0.33	0.58 0.32	-0.005 0.29	0.19 0.27
SIR CT SNOWCAP 207 PLD 03/25/2002 M 649432 EEE SNOWCAP PLD	CROW TIMBER CHAROLAIS 17053 482 AVE REVILLO SD 57259	1 157 9	12 0.70	0.1 0.80	14 0.71	28 0.40	-1 0.31	9 0.23	7	0.1 0.33	0 0 0	N/A	N/A	N/A	N/A
VCR SIR DUKE 9918 ET P 08/20/1999 M 508800 VCR SIR DUKE 914 PLD	VEDVEI CHAROLAIS RANCH 44213 204TH ST LAKE PRESTON SD 57249	22 238 36	12 0.65	-5.3 0.83	28 0.74	45 0.71	10 0.47	7 0.44	24	0.5 0.55	0 40 5	5 0.33	-0.22 0.32	-0.031 0.30	0.06 0.27
MC-OW SANDCREEK 375 03/06/2003 M 666702 HOODOO SANDCREEK 9008	OAKWATER RANCH 1040 HAWN AVE SHREVEPORT LA 71107	1 116 6	12 0.62	-7.3 0.77	11 0.66	21 0.63	-1 0.23	7 0.19	4	0.1 0.51	3 35 1	-10 0.28	0.29 0.30	-0.003 0.22	0.11 0.17
BCR CHINOOK TIME 2000 02/06/2000 M 508417 LT WIND TIME 7070 PLD	CLARK ALAN BREVIG 676 QUARRY VIEW LANE LEWISTOWN MT 59457	4 202 41	12 0.58	-2.1 0.82	10 0.74	7 0.64	21 0.52	16 0.45	26	0.9 0.61	0 57 4	3 0.32	0.04 0.31	0.002 0.28	0.11 0.25
FINKS 2250 OF 3575D040ET 08/18/2002 M 658950 JWK IMPRESSIVE D040 ET	RAILE CHAROLAIS FARM 1965 RD 7 ST FRANCIS KS 67756	2 255 28	11 0.65	-1.1 0.84	19 0.76	34 0.65	20 0.45	5 0.43	30	0.3 0.26	0 95 1	13 0.36	0.01 0.35	0.005 0.33	0.14 0.31

TRAIT LEADERS

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
WCR BOOTS ON3 POLLED 03/05/1995 M 423097 RAC NINTENDO G1249 POLD	SAND HILL CHAROLAIS INC HCR 1 BOX 69 BOISE CITY OK 73933	2 370 58	21 0.80	-10.2 0.87	-4 0.81	-10 0.23	0 0.62	14 0.53	-2	0.1 PE	0 0 0	N/A	N/A	N/A	N/A
GC EASY SUPREME F59 03/17/2005 M 709844 GCR D8	GRAU CHAROLAIS 1680 CR 37 GRADY NM 88120	3 60 2	15 0.58	-9.2 0.69	-5 0.55	-4 0.12	6 0.17	5 0.13	4	0.3 PE	0 0 0	N/A	N/A	N/A	N/A
WR EASE 4434 03/27/2004 M 689431 LT UNLIMITED EASE 9108	SCHUTTE CHAROLAIS 2912 TIPPERARY LANE IDAHO FALLS ID 83404	2 88 9	19 0.47	-8.7 0.74	12 0.64	15 0.55	17 0.31	4 0.26	22	0.7 PE	0 10 1	4 0.29	-0.23 0.29	0.008 0.25	0.06 0.24
MC-OW SANDCREEK 375 03/06/2003 M 666702 HOODOO SANDCREEK 9008	OAKWATER RANCH 1040 HAWN AVE SHREVEPORT LA 71107	1 116 6	12 0.62	-7.3 0.77	11 0.66	21 0.63	-1 0.23	7 0.19	4	0.1 0.51	3 35 1	-10 0.28	0.29 0.30	-0.003 0.22	0.11 0.17
DC-OW MAXIMIZER 385PLD 03/17/2003 M 675875 FC MAGIC WIND 0105 P	OAKWATER RANCH 1040 HAWN AVE SHREVEPORT LA 71107	3 146 23	9 0.58	-6.7 0.80	22 0.70	27 0.68	3 0.40	2 0.36	14	1.2 0.57	1 40 3	2 0.30	0.14 0.29	0.025 0.24	-0.01 0.21
LK EASY ELIMINATOR 716 02/01/1997 M 473717 ASC ELIMINATOR 032	BOB BLACK 1115 PURDY MESA RD WHITEWATER CO 81527	1 200 34	17 0.50	-6.6 0.82	30 0.73	52 0.66	12 0.54	8 0.42	27	1.3 0.57	0 0 0	4 PE	0.16 PE	0.001 PE	-0.11 PE
BBCR MIGHTY MAN 836 PLD 03/27/1996 M 445862 HCR MAC 0177 POLLED	ALVIE FRED 42327 RD 800 MERNA NE 68856	13 390 79	12 0.72	-6.5 0.87	16 0.81	37 0.81	17 0.63	4 0.57	26	0.0 0.62	23 41 4	8 0.47	0.44 0.52	-0.037 0.46	-0.18 0.50
ACF DUKE 422 POLL 03/12/2004 M 684791 BALDRIDGE KOJACK 29K	AMBURGEY CHAROLAIS FARM 3171 CAMARGO RD MT STERLING KY 40353	1 119 2	17 0.61	-6.5 0.77	17 0.66	25 0.65	15 0.26	9 0.21	23	0.1 PE	0 0 0	6 PE	-0.09 PE	-0.013 PE	0.00 PE
WCR SIR TRADITION5056ETP 08/25/2005 M 716920 WCR SIR TRADITION 066	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	1 142 6	13 0.44	-5.9 0.78	25 0.70	45 0.69	4 0.30	4 0.29	17	0.4 0.47	0 33 2	19 0.32	0.50 0.31	-0.005 0.28	-0.02 0.26
JES CORONA J370 04/04/1999 M 498013 HCR CORONA 2105 POLLED	JEROME (JERRY) M STOUT 21804 SD HWY 248 KADOKA SD 57543	2 172 34	15 0.72	-5.8 0.81	23 0.73	45 0.73	17 0.50	6 0.43	28	0.7 0.34	0 20 1	8 0.26	-0.13 0.25	-0.005 0.22	-0.08 0.18
BAR S HIGH NOON 68L PLD 02/14/2001 M 622467 BALDRIDGE FASTTRACK 82F	BAR S RANCH 5302 182ND ST PARADISE KS 67658	2 115 8	19 0.66	-5.8 0.77	4 0.66	-4 0.39	15 0.34	11 0.29	18	-0.1 0.36	0 24 1	-20 0.31	-0.55 0.31	-0.003 0.28	0.00 0.27
SCHURRTOP JK 2201-2283P 03/13/2001 M 624670 SCHURRTOP JK 5627 2201P	RAY D WINZ & SONS 72354 Q RD HOLDREGE NE 68949-3449	1 162 25	16 0.72	-5.7 0.81	17 0.72	39 0.69	9 0.48	14 0.43	18	0.9 0.54	0 0 0	13 BK	0.38 BK	0.007 BK	0.01 BK
CMF 192 WRANGLER 256 11/22/2000 M 615145 BALDRIDGE FASTTRACK 82F	YOST FARMS RT 4 BOX 186 KINGFISHER OK 73750	18 156 6	18 0.65	-5.6 0.79	26 0.68	46 0.61	11 0.29	11 0.31	24	0.8 0.51	0 23 3	11 0.31	0.04 0.30	0.005 0.27	-0.06 0.25
JCR IMPRESSIVE 626 TW P 02/15/2006 M 724000 WCR SIR IMPRESS 1325 P	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	4 86 6	9 0.56	-5.5 0.74	32 0.61	47 0.56	0 0.25	-5 0.23	16	0.3 0.31	0 12 1	16 0.23	0.09 0.23	-0.001 0.20	0.14 0.17
VCR SIR DUKE 9918 ET P 08/20/1999 M 508800 VCR SIR DUKE 914 PLD	VEDVEI CHAROLAIS RANCH 44213 204TH ST LAKE PRESTON SD 57249	22 238 36	12 0.65	-5.3 0.83	28 0.74	45 0.71	10 0.47	7 0.44	24	0.5 0.55	0 40 5	5 0.33	-0.22 0.32	-0.031 0.30	0.06 0.27
FCR LEGACY 6013 PLD 03/22/2006 M 719605 FCR LEGACY 204 P	FRENCH CHAROLAIS RANCH 37151 HERITAGE ROAD MULLEN NE 69152	1 64 2	7 0.39	-5.3 0.70	16 0.59	33 0.50	12 0.21	-3 0.15	20	1.0 0.39	0 0 0	N/A	N/A	N/A	N/A
NWMSU DOC SILVER 362 PLD 03/07/2003 M 669488 SS MONTANA SILVER	BJR SUMMERFORD CHAROLAIS FALKVILLE AL HUBERT CHAROLAIS RANCH OAKLEY KS	28 427 62	15 0.78	-4.8 0.87	33 0.80	64 0.76	1 0.53	10 0.56	18	0.3 0.66	25 186 13	18 0.50	-0.16 0.55	0.055 0.50	0.25 0.53
WCR SIR MAC 400 01/30/1994 M 404998 WCR SIR FAB MAC 809	DEER VALLEY CHAROLAIS RANCH LAURENS SC FIVE STAR FARMS SENATOBIA MS	8 128 13	5 0.53	-4.7 0.78	17 0.65	30 0.47	5 0.38	-2 0.34	14	0.5 0.33	0 0 0	10 PE	-0.16 PE	0.007 PE	0.13 PE
LT SILVER DISTANCE 5342P 03/31/2005 M 707559 LT SILVER YIELD 3196 P	SHANE D JOHNSON BROOKINGS SD LINDSKOV-THIEL CHAROLAIS ISABEL SD	20 234 25	8 0.74	-4.5 0.83	29 0.74	45 0.61	8 0.37	0 0.38	23	0.4 0.38	0 49 6	8 0.31	0.01 0.29	0.024 0.26	-0.01 0.23
EATONS AVALANCH 3192 03/30/2003 M 657607 EATONS SUPREMEVAL1003	EATON CHAROLAIS LINDSAY MT SOUTHERN CATTLE COMPANY MARIANNA FL	2 150 9	11 0.53	-4.5 0.79	13 0.69	44 0.68	15 0.31	11 0.29	21	1.1 0.54	11 18 2	21 0.39	-0.53 0.43	0.074 0.36	0.13 0.40
WR-WCR POLLED PRINCE S602 02/09/2006 M 729768 OAKDALE DUKE 9003P	GENEX COOPERATIVE INC SHAWANO WI WIENK CHAROLAIS RANCH LAKE PRESTON SD WAGONHAMMER RANCHES ALBION NE	6 111 0	10 0.49	-4.5 0.76	20 0.63	38 0.58	19 0.20	4 0.15	29	0.7 0.22	0 23 2	9 0.27	0.18 0.26	0.006 0.24	0.13 0.20
KCF T-EASE TREND 217 PLD 04/06/2002 M 645937 WCR SIR NEW TREND9504ETP	KOEPSSELL CHAROLAIS FARM 24656 436TH AVE CANOVA SD 57321	1 71 8	8 0.37	-4.4 0.71	10 0.60	25 0.36	-7 0.27	4 0.17	-2	0.0 0.30	0 0 0	N/A	N/A	N/A	N/A
EATONS VISIONARY 2044 P 03/21/2002 M 652186 EATONS VISION 0484	WIENK CHAROLAIS RANCH LAKE PRESTON SD EATON CHAROLAIS LINDSAY MT DEER VALLEY CHAROLAIS RANCH LAURENS SC	21 413 78	6 0.78	-4.3 0.88	15 0.81	48 0.80	15 0.59	4 0.57	23	1.8 0.69	46 109 7	6 0.56	-0.65 0.62	0.022 0.57	-0.08 0.61
PLT SIR DUKES FLASH 5527 03/23/1997 M 462166 HCR FLASH 5074 POLLED	VEDVEI CHAROLAIS RANCH 44213 204TH ST LAKE PRESTON SD 57249	22 170 45	1 0.68	-4.3 0.81	19 0.72	33 0.69	7 0.53	-7 0.45	17	0.4 0.50	16 16 3	-9 0.40	0.00 0.45	-0.061 0.39	0.29 0.42
WCR SIR PRIME CUT 3114 P 03/07/2003 M 665249 WCR PRIME CUT 764 PLD	OAKWATER RANCH 1040 HAWN AVE SHREVEPORT LA 71107	1 109 8	8 0.48	-4.3 0.76	1 0.66	14 0.63	13 0.35	-3 0.29	14	1.0 0.50	3 24 1	7 0.33	-0.17 0.34	0.030 0.27	0.00 0.25

T R A I T L E A D E R S

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
SC KING KOBY 23 ET 02/07/2003 M 669216 WCR PRIME TIME 908 P	TIM REICH 1007 KINGSBURY RD BELLE FOURCHE SD 57717	1 94 7	0 0.43	3.4 0.74	60 0.64	92 0.27	-4 0.31	3 0.27	27	0.9 PE	0 38 1	33 0.33	0.52 0.32	-0.029 0.30	-0.04 0.28
DA PASSPORT 502 P ET 01/04/2005 M 699727 JDJ SMOKESTER J1377 P ET	MITCHELL H THOMAS P O BOX 717 RAYMONDVILLE TX 78580	5 38 0	2 0.36	1.4 0.62	57 0.57	87 0.60	12 0.24	2 0.19	40	1.1 0.47	0 25 5	29 0.30	0.95 0.30	-0.026 0.27	-0.38 0.25
WCR SIR GOSSIP 612 P 02/12/2006 M 722829 VCR SIR GOSSIP 0007 PLD	WIENK CHAROLAIS RANCH LAKE PRESTON SD RICHARD L ZEISLER BUTTE NE	1 49 1	-1 0.41	0.0 0.67	55 0.56	92 0.39	-5 0.22	-2 0.17	23	1.2 PE	0 0 0	26 BK	0.19 BK	-0.021 BK	0.17 BK
SC SHADOWBROOK 484 ET 08/31/2004 M 690415 LC BUSINESS 06P	ROBERT C NICHOLS 10591 CO ROAD 37 S LETOHATCHEE AL 36047	1 95 0	3 0.52	3.5 0.73	54 0.58	90 0.23	11 0.21	7 0.17	38	1.0 PE	0 0 0	18 PE	0.26 PE	-0.012 PE	-0.05 PE
FC HARVESTER 03/17/2005 M 703251 SCR NEW MOON 2350	J C H DOLL 3991 36TH ST NEW SALEM ND 58563	2 117 8	-4 0.44	3.3 0.77	51 0.67	103 0.69	-4 0.27	-2 0.24	22	1.4 0.28	0 19 1	30 0.24	0.29 0.23	0.038 0.19	0.04 0.16
JCR IMPRESSIVE 573 P 03/09/2005 M 704065 WCR SIR IMPRESS 1325 P	PRAIRIE VALLEY FARMS INC 36324 SD HWY 44 PLATTE SD 57369-6205	1 95 9	-2 0.40	2.2 0.75	51 0.64	86 0.53	8 0.29	-9 0.25	33	1.4 0.28	0 0 0	13 PE	0.03 PE	-0.012 PE	0.09 PE
TR MR PRIME PLUS 7720T 05/14/2007 M 744515 WCR SIR PRIMEPLUS 580 P	THOMAS RANCH HARROLD SD SUMMIT FARMS ALDEN IA	4 123 0	-6 0.37	4.0 0.77	50 0.68	84 0.43	2 0.20	-6 0.13	27	0.4 PE	0 7 1	37 0.21	0.34 0.20	-0.006 0.17	0.04 0.13
M6 MOMENTUM 4247 P ET 09/14/2004 M 697649 LHD CIGAR E46	JANTZEN D LORD MARIANNA FL KEVIN J MOORE ALVARADO TX SOUTHERN CATTLE COMPANY MARIANNA FL	2 93 16	5 0.42	0.2 0.73	50 0.63	83 0.50	4 0.33	7 0.30	29	1.0 0.46	0 28 2	32 0.30	0.44 0.30	-0.004 0.27	-0.11 0.25
BJR THUNDERING VALUE 7124 P 04/18/2007 M 751654 LT THUNDERING WIND 5200P	BJR SUMMERFORD CHAROLAIS FALKVILLE AL DOUBLE O CHAROLAIS MARSHALL TX	1 49 0	-1 0.39	2.9 0.67	50 0.55	81 0.33	7 0.23	0 0.20	32	1.4 PE	0 0 0	35 BK	0.32 BK	0.040 BK	0.04 BK
JDS HE'SMYKING 2038 P ET 11/28/2000 M 613519 VCR SIR DUKE 914 PLD	MID TENN CHAROLAIS MANCHESTER TN MYERS' CIRCLE FARM ELKTON KY	5 201 18	5 0.63	0.8 0.81	49 0.68	78 0.63	9 0.39	2 0.40	33	0.4 0.44	0 40 3	28 0.32	0.36 0.32	-0.010 0.29	0.05 0.27
HBR PROGRAM 218 P 03/09/2002 M 634843 VCR SIR DUKE 914 PLD	DR HARLAN B ROGERS COLLINS MS	21 154 11	2 0.51	2.0 0.79	48 0.66	77 0.44	16 0.31	0 0.32	40	1.0 0.32	0 4 3	23 0.25	0.20 0.24	-0.016 0.20	0.05 0.20
LT CHEYENNE BLEND 7142 P 03/09/2007 M 742067 LT EASY BLEND 5125 PLD	HARRIS MORGAN CAMILLA GA LINDSKOV-THIEL CHAROLAIS ISABEL SD DERRY & MARY WRIGHT RICHMOND MO	12 105 0	2 0.47	1.1 0.75	48 0.64	70 0.44	-5 0.20	5 0.16	19	0.9 PE	0 12 1	31 0.26	0.39 0.25	0.039 0.22	-0.17 0.19
HEP AUTO PILOT 101H ET 10/22/1998 M 492170 HEP KING GRAZER 25A	COMPTON CHAROLAIS NANAFALIA AL DR HARLAN B ROGERS COLLINS MS	6 155 21	-2 0.50	4.9 0.80	47 0.64	94 0.39	21 0.43	7 0.38	45	0.5 0.18	0 1 1	43 0.20	0.50 0.19	0.009 0.15	-0.04 0.14
RW WESTERN SPUR 691 02/27/2006 M 727438 LT WESTERN SPUR 2061 PLD	KEPPEN CHAROLAIS RANCH 405 SAMARA AVE VOLGA SD 57071	1 51 1	7 0.44	-1.5 0.68	47 0.56	64 0.36	-7 0.23	6 0.19	17	1.4 0.33	0 8 2	30 0.26	0.69 0.27	0.022 0.23	0.18 0.22
ANKONIAN DUKE G034 01/14/1997 M 468745 VCR SIR DUKE 914 PLD	ACCELERATED GENETICS BARABOO WI BAR S RANCHED INC PARADISE KS	8 198 37	5 0.49	1.5 0.82	46 0.73	71 0.41	16 0.50	7 0.45	39	1.1 0.36	0 64 2	13 0.35	-0.07 0.34	-0.021 0.31	-0.02 0.29
RDW SIR FLASH N391PDW 03/23/2003 M 680718 RDW SIR FLASH H9109P	RAY D WINZ & SONS 72354 Q RD HOLDREGE NE 68949-3449	1 112 12	-4 0.39	2.8 0.77	46 0.66	80 0.57	9 0.33	-3 0.30	32	0.6 0.37	0 0 0	N/A	N/A	N/A	N/A
LT RIO BLANCO 1234 P 04/04/2001 M 620591 WCR PRIME CUT 764 PLD	MIKE CALLIS MILLBROOK AL PATE CHAROLAIS RANCH LOWNDESBORO AL LINDSKOV-THIEL CHAROLAIS ISABEL SD	140 1130 252	-1 0.75	3.5 0.92	45 0.88	87 0.82	7 0.74	4 0.71	30	1.3 0.73	1 190 38	47 0.39	0.52 0.39	0.047 0.35	0.12 0.35
KEYS MCHENRY 24M 02/01/2002 M 645472 KEYS HANDYMAN PLD 255H	EFFERTZ KEY RANCH PO BOX 640 VELVA ND 58790-0640	76 622 120	1 0.62	1.4 0.89	45 0.84	74 0.81	-1 0.64	1 0.61	22	0.9 0.50	0 37 17	41 0.27	0.67 0.26	-0.001 0.23	-0.01 0.18
LT EASY BLEND 5125 PLD 03/01/2005 M 705113 LT UNLIMITED EASE 9108	LINDSKOV-THIEL CHAROLAIS ISABEL SD IBACH PROPERTIES INC ANSLEY NE	72 562 37	2 0.67	1.5 0.89	45 0.83	76 0.74	-5 0.46	0 0.46	18	0.9 0.60	0 122 25	42 0.37	0.21 0.36	0.014 0.33	0.05 0.32
WM ALI STAR 250 PET 03/18/2002 M 648601 VCR SIR DUKE 914 PLD	DOUBLE O CHAROLAIS MARSHALL TX	13 328 8	5 0.60	1.1 0.85	45 0.76	75 0.37	13 0.33	2 0.27	35	1.1 0.27	0 5 2	20 0.26	0.19 0.24	-0.036 0.21	0.08 0.19
MD SILVER COMMAD L252 02/24/2001 M 633473 JDJ SILVER F303	MARK & BELVA DE BRUYCKER BYNUM MT TIM REICH BELLE FOURCHE SD	1 158 23	0 0.43	3.3 0.80	45 0.72	70 0.35	-9 0.42	9 0.35	14	0.5 PE	0 57 1	30 0.31	0.86 0.30	-0.002 0.27	-0.12 0.24
DVCR DUKE K09 P ET 05/09/2000 M 606732 WCR SIR DUKE 761	DEER VALLEY CHAROLAIS RANCH LAURENS SC SOUTHERN CATTLE COMPANY MARIANNA FL	9 190 29	7 0.58	0.2 0.81	45 0.69	71 0.58	15 0.47	3 0.39	37	1.0 0.29	40 38 2	15 0.52	-0.09 0.58	-0.029 0.53	0.12 0.57
FREDS MIGHTY 0116 PLD 03/15/2000 M 608079 BBCR MIGHTY MAN 836 PLD	MR & MRS ALVIE FRED & CHILDREN MERNA NE DAN D & RHONDA PETERSON GOTHENBURG NE	7 119 24	1 0.47	0.0 0.78	45 0.68	76 0.64	4 0.43	0 0.35	27	0.7 0.49	2 19 3	24 0.31	0.58 0.32	-0.008 0.28	-0.16 0.27
HCR RANCHER 0161 PLD 04/03/2000 M 603259 SCHURRTOP HCR RANCHER	TIM D LESLIE P O BOX 218 SALEM AR 72576	3 160 9	7 0.55	0.8 0.80	45 0.65	76 0.29	10 0.32	8 0.30	33	0.8 0.20	0 1 1	26 0.21	0.31 0.20	0.006 0.17	-0.03 0.14
VCR DAKOTA VISION 619 P 02/13/2006 M 721849 WCR SIR VISION 4246 P	SOREIDE CHAROLAIS 8307 149TH AVE SW BOWMAN ND 58623	1 56 2	3 0.47	1.6 0.69	45 0.56	83 0.33	10 0.21	5 0.18	33	1.2 PE	0 0 0	28 BK	0.23 BK	0.005 BK	-0.01 BK

T R A I T L E A D E R S

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
FC HARVESTER 03/17/2005 M 703251 SCR NEW MOON 2350	J C H DOLL 3991 36TH ST NEW SALEM ND 58563	2 117 8	-4 0.44	3.3 0.77	51 0.67	103 0.69	-4 0.27	-2 0.24	22	1.4 0.28	0 19 1	30 0.24	0.29 0.23	0.038 0.19	0.04 0.16
LT RIO BLANCO 1234 P 04/04/2001 M 620591 WCR PRIME CUT 764 PLD	MIKE CALLIS MILLBROOK AL PATE CHAROLAIS RANCH LOWNDESBORO AL LINDSKOV-THIEL CHAROLAIS ISABEL SD	140 1130 252	-1 0.75	3.5 0.92	45 0.88	87 0.82	7 0.74	4 0.71	30	1.3 0.73	1 190 38	47 0.39	0.52 0.39	0.047 0.35	0.12 0.35
DA PASSPORT 502 P ET 01/04/2005 M 699727 JDJ SMOKESTER J1377 P ET	MITCHELL H THOMAS RAYMONDVILLE TX DERRY & MARY WRIGHT RICHMOND MO	5 38 0	2 0.36	1.4 0.62	57 0.57	87 0.60	12 0.24	2 0.19	40	1.1 0.47	0 25 5	29 0.30	0.95 0.30	-0.026 0.27	-0.38 0.25
WCR SIR IMPRESSIVE 8191P 03/26/1998 M 477998 JWK IMPRESSIVE D040 ET	JERRY DALLING SUGAR CITY ID PLUCKER CHAROLAIS PARKER SD MYERS' CIRCLE FARM ELKTON KY	69 716 165	3 0.72	0.8 0.90	42 0.85	80 0.82	4 0.70	2 0.67	25	1.6 0.73	14 94 23	31 0.45	0.10 0.49	0.034 0.44	0.17 0.46
G-BAR DUKES DELIGHT K06 10/02/2000 M 613638 VCR SIR DUKE 914 PLD	H W GLOVER 4150 CO RD 249 LULING TX 78648	1 133 19	2 0.44	2.3 0.78	41 0.66	80 0.61	11 0.40	6 0.34	32	1.1 0.46	0 0 0	N/A	N/A	N/A	N/A
RDW SIR FLASH N391PDW 03/23/2003 M 680718 RDW SIR FLASH H9109P	RAY D WINZ & SONS 72354 Q RD HOLDREGE NE 68949-3449	1 112 12	-4 0.39	2.8 0.77	46 0.66	80 0.57	9 0.33	-3 0.30	32	0.6 0.37	0 0 0	N/A	N/A	N/A	N/A
MD CIRCULAR R2003 08/26/2005 M 735576 MD OUTBACK M1046	MARK & BELVA DE BRUYCKER 2649 12TH LANE NW BYNUM MT 59419	3 99 0	6 0.43	-1.1 0.75	35 0.60	80 0.56	8 0.19	4 0.12	25	0.6 0.43	0 0 0	13 PE	0.12 PE	-0.008 PE	0.02 PE
TR AVENGER 3649N 03/17/2003 M 665035 HAMMS TR AVALANCHE Y17 K	JEFF STEWART FAMILY LAKE PRESTON SD THOMAS RANCH HARROLD SD JAMIE EGGLESTON WESSINGTON SD	4 175 18	10 0.56	-0.3 0.81	28 0.72	79 0.62	4 0.40	8 0.33	18	1.5 0.42	0 56 3	24 0.31	0.30 0.29	-0.002 0.27	0.03 0.23
KEYS TEN-ACIOUS 166S 03/10/2006 M 724532 KEYS MCTENDER 279P	EFFERTZ KEY RANCH PO BOX 640 VELVA ND 58790-0640	4 175 17	-1 0.47	1.8 0.81	45 0.73	78 0.65	-7 0.32	0 0.32	15	0.8 PE	0 2 1	31 0.14	0.37 0.12	-0.017 0.07	0.05 0.05
JDS HE'SMYKING 2038 P ET 11/28/2000 M 613519 VCR SIR DUKE 914 PLD	MID TENN CHAROLAIS MANCHESTER TN MYERS' CIRCLE FARM ELKTON KY	5 201 18	5 0.63	0.8 0.81	49 0.68	78 0.63	9 0.39	2 0.40	33	0.4 0.44	0 40 3	28 0.32	0.36 0.32	-0.010 0.29	0.05 0.27
4L MR SAM PLD/S 8312 02/26/1998 M 480932 LCR ROYAL SAM M4 POLLED	PETERSON'S 4L CHAROLAIS 4703 S KENANSVILLE RD OKEECHOBEE FL 34972	2 132 27	-3 0.52	2.6 0.79	29 0.69	78 0.62	7 0.48	1 0.40	21	1.1 0.32	0 2 1	16 0.16	0.33 0.14	-0.008 0.10	-0.17 0.08
BEM BULLDOZER 51M 01/24/2002 M 662948 HTA WHITEHOT 105A	J C H DOLL 3991 36TH ST NEW SALEM ND 58563	3 251 50	10 0.50	0.2 0.84	37 0.77	77 0.73	-3 0.53	13 0.49	16	1.3 0.49	0 55 2	44 0.32	0.53 0.31	-0.024 0.29	-0.05 0.26
ENDSLEY'S DUKE STONE 257 03/24/2002 M 641628 VCR SIR DUKE 914 PLD	ENDSLEY'S CHAROLAIS FARMS 5590 E STATE RD HASTINGS MI 49058	3 317 59	7 0.57	0.5 0.86	39 0.79	76 0.79	6 0.54	5 0.50	26	1.1 0.21	0 0 0	N/A	N/A	N/A	N/A
LT EASY BLEND 5125 PLD 03/01/2005 M 705113 LT UNLIMITED EASE 9108	LINDSKOV-THIEL CHAROLAIS ISABEL SD IBACH PROPERTIES INC ANSLEY NE	72 562 37	2 0.67	1.5 0.89	45 0.83	76 0.74	-5 0.46	0 0.46	18	0.9 0.60	0 122 25	42 0.37	0.21 0.36	0.014 0.33	0.05 0.32
FREDS MIGHTY 0116 PLD 03/15/2000 M 608079 BBCR MIGHTY MAN 836 PLD	MR & MRS ALVIE FRED & CHILDREN MERNA NE DAN D & RHONDA PETERSON GOTHENBURG NE	7 119 24	1 0.47	0.0 0.78	45 0.68	76 0.64	4 0.43	0 0.35	27	0.7 0.49	2 19 3	24 0.31	0.58 0.32	-0.008 0.28	-0.16 0.27
TR SMOKEONTHEWATER ET 03/15/2004 M 690545 THOMAS OAHE WIND 0772ET P	COUDRON CHAROLAIS MONTICELLO MN THOMAS RANCH HARROLD SD ALEX P BULLARD CORNELL IL	16 92 11	-3 0.43	2.3 0.73	40 0.63	76 0.57	1 0.32	-1 0.28	21	1.2 0.45	0 22 6	30 0.28	0.52 0.28	0.015 0.25	-0.21 0.23
KEYS MCHENRY 24M 02/01/2002 M 645472 KEYS HANDYMAN PLD 255H	EFFERTZ KEY RANCH PO BOX 640 VELVA ND 58790-0640	76 622 120	1 0.62	1.4 0.89	45 0.84	74 0.81	-1 0.64	1 0.61	22	0.9 0.50	0 37 17	41 0.27	0.67 0.26	-0.001 0.23	-0.01 0.18
LT WESTERN EDGE 4057 PLD 03/02/2004 M 686616 LT WESTERN SPUR 2061 PLD	HUBERT/LEHMAN/WRIGHT CHAROLAIS OAKLEY KS LINDSKOV-THIEL CHAROLAIS ISABEL SD LANE & PETERSON CATTLE CO CHARLES CITY IA	68 704 111	-1 0.72	-0.2 0.90	37 0.85	74 0.77	11 0.60	3 0.60	30	1.4 0.60	1 202 29	28 0.37	0.14 0.37	0.026 0.33	-0.08 0.31
SR/NC FIELD REP 2158 P ET 10/21/2002 M 665948 LHD MR PERFECT Y416	DENNIS CHAROLAIS FARMS SAINT JO TX NIPP CHAROLAIS OVERBROOK OK GRISSOM CHAROLAIS WILSON OK	47 565 34	-2 0.57	2.3 0.89	44 0.80	73 0.78	10 0.45	2 0.43	32	1.1 0.70	0 131 11	30 0.36	0.53 0.35	-0.002 0.32	-0.13 0.30
THREE TREES WIND 2638 ET 09/21/2002 M 661622 LT WYOMING WIND 4020 PLD	NIPP CHAROLAIS OVERBROOK OK GRISSOM CHAROLAIS WILSON OK DENNIS CHAROLAIS FARMS SAINT JO TX	5 123 3	4 0.46	1.3 0.77	42 0.63	73 0.61	-5 0.29	4 0.28	16	0.7 0.49	0 30 3	27 0.32	0.59 0.32	0.003 0.30	0.12 0.28
TW ELIMINATOR J102 P 09/02/1999 M 508565 ASC ELIMINATOR 032	AMBURGEY CHAROLAIS FARM 3171 CAMARGO RD MT STERLING KY 40353	2 303 27	5 0.50	-0.4 0.85	42 0.77	72 0.75	15 0.43	8 0.40	36	0.6 PE	0 0 0	7 PE	0.17 PE	0.000 PE	-0.11 PE
COOLEY WOODEN 1107N2 01/23/2003 M 661252 MR INLAND EXPEDITER 501	DON & BECKY RAASCH 1124 225TH STREET BRIDGEWATER IA 50837	4 91 7	-7 0.41	4.4 0.74	36 0.61	72 0.55	1 0.30	3 0.29	19	0.3 0.46	21 41 2	41 0.45	-0.13 0.50	0.070 0.45	0.07 0.49
EC NO DOUBT 2022 P 03/10/2004 M 685500 M6 GRID MAKER 104 PET	GENEX COOPERATIVE INC SHAWANO WI JAMIE EGGLESTON WESSINGTON SD CARSTENS FARMS LTD ADAIR IA	40 408 27	12 0.71	-0.2 0.87	34 0.80	71 0.72	10 0.41	8 0.38	27	0.7 0.51	0 60 12	27 0.33	0.58 0.32	-0.005 0.29	0.19 0.27
DVCR DUKE K09 P ET 05/09/2000 M 606732 WCR SIR DUKE 761	DEER VALLEY CHAROLAIS RANCH LAURENS SC SOUTHERN CATTLE COMPANY MARIANNA FL	9 190 29	7 0.58	0.2 0.81	45 0.69	71 0.58	15 0.47	3 0.39	37	1.0 0.29	40 38 2	15 0.52	-0.09 0.58	-0.029 0.53	0.12 0.57
THREE TREES WIND 3001 ET 11/23/2002 M 661299 LT WYOMING WIND 4020 PLD	PETERSON FARMS 8767 OUTER RD MTN GROVE MO 65711	5 95 2	6 0.51	1.7 0.73	41 0.57	71 0.57	4 0.29	8 0.26	24	1.2 PE	0 7 3	24 0.29	0.34 0.29	0.009 0.26	0.17 0.25

TRAIT LEADERS

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
SCHURRTOP RC SIGNATURE 03/15/1999 M 499155 SKYMONT EASE 3001	SCHURR BROS FARNAM NE RAMBUR CHAROLAIS SIDNEY MT COLONIAL FARMS WAYNESBORO VA	14 280 86	-1 0.60	2.5 0.85	30 0.78	46 0.77	26 0.65	5 0.58	41	0.7 0.54	18 81 2	13 0.46	-0.04 0.51	-0.019 0.45	0.13 0.49
EC BRONSON 204 POLLED 04/05/1993 M 375306 SIR EC STINGER 48	LONE TREE CHAROLAIS 5516 WILDWOOD DR RAPID CITY SD 57702-8812	24 226 75	-2 0.58	2.9 0.84	17 0.77	59 0.66	25 0.66	0 0.55	34	1.1 0.27	0 0 0	N/A	N/A	N/A	N/A
JDJ SMOKESTER J1377 P ET 02/25/1999 M 509419 LHD CIGAR E46	JACQUE DE BRUYCKER DUTTON MT RAMBUR CHAROLAIS SIDNEY MT RIVERDALE LAND & LIVESTOCK CORP SUNSET HILLS MO	79 748 131	-5 0.69	2.3 0.90	29 0.84	40 0.82	24 0.69	-4 0.66	39	1.0 0.71	18 145 21	17 0.49	0.93 0.54	-0.045 0.49	-0.47 0.52
VCR SIR DUKE 914 PLD 03/01/1989 M 297007 WCR SIR DUKE 761	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD ABS GLOBAL INC DE FOREST WI	407 3779 1454	10 0.91	-0.3 0.96	40 0.94	64 0.92	21 0.91	4 0.88	41	1.3 0.84	37 338 64	16 0.59	0.07 0.65	-0.045 0.60	0.07 0.63
HEP KING GRAZER 25A 02/01/1991 M 333937 BR DUKE 261	PATE CHAROLAIS RANCH LOWNDESBORO AL KINMONT FARM WAYNESBORO VA PATE CHAROLAIS RANCH LOWNDESBORO AL	124 1173 347	6 0.79	0.6 0.93	32 0.88	63 0.83	21 0.81	11 0.75	36	-0.3 0.56	0 68 15	32 0.39	0.26 0.39	0.031 0.35	0.09 0.35
BALDRIDGE KOJACK 29K 01/16/2000 M 602060 BALDRIDGE FASTTRACK 82F	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	232 1532 234	12 0.87	-4.2 0.93	29 0.89	46 0.83	21 0.73	6 0.69	36	-0.6 0.64	7 125 41	3 0.42	-0.21 0.47	-0.003 0.42	-0.04 0.42
LT EASY PRO 1158 PLD 03/18/2001 M 620348 LT UNLIMITED EASE 9108	LINDSKOV-THIEL CHAROLAIS ISABEL SD BJR SUMMERFORD CHAROLAIS FALKVILLE AL	87 999 159	8 0.82	-1.6 0.92	24 0.87	38 0.83	21 0.68	-4 0.65	33	-0.2 0.72	41 320 31	15 0.56	-0.03 0.61	0.018 0.56	0.38 0.60
WR BENEFIT 7418 03/15/1997 M 468170 ASC ELIMINATOR 032	WAGONHAMMER RANCHES ALBION NE SELECT SIRES INC PLAIN CITY OH	61 337 64	3 0.62	1.2 0.85	27 0.75	49 0.59	21 0.55	-1 0.49	35	1.2 0.39	0 26 8	7 0.31	0.13 0.31	-0.014 0.28	-0.19 0.26
LT RIO BRAVO 3181 P 03/17/2003 M 665507 LT RIO BLANCO 1234 P	LINDSKOV-THIEL CHAROLAIS ISABEL SD ABS GLOBAL INC DE FOREST WI	62 519 78	3 0.63	0.2 0.89	37 0.83	71 0.76	19 0.58	2 0.55	37	1.4 0.60	2 170 35	37 0.36	0.65 0.35	0.045 0.32	0.17 0.30
MD SENTINAL RULER G1520 09/18/1997 M 509416 LHD MR RULER D310	MARK & BELVA DE BRUYCKER 2649 12TH LANE NW BYNUM MT 59419	18 277 46	8 0.53	-0.7 0.85	17 0.77	38 0.75	18 0.57	7 0.40	27	-0.4 0.63	11 46 5	15 0.39	0.27 0.43	-0.004 0.37	0.46 0.38
BBCR MIGHTY MAN 836 PLD 03/27/1996 M 445862 HCR MAC 0177 POLLED	ALVIE FRED 42327 RD 800 MERNA NE 68856	13 390 79	12 0.72	-6.5 0.87	16 0.81	37 0.81	17 0.63	4 0.57	26	0.0 0.62	23 41 4	8 0.47	0.44 0.52	-0.037 0.46	-0.18 0.50
EC NEW TREND 6G 03/28/1999 M 498475 RC BUDSMYDAD 225 POLLED	JAMIE EGGLESTON WESSINGTON SD SEMEX (USA) MADISON WI LLOYD & JANE DE BRUYCKER DUTTON MT	38 253 62	6 0.56	1.5 0.84	31 0.76	56 0.66	17 0.60	8 0.54	32	0.4 0.53	0 49 9	31 0.35	0.24 0.35	0.000 0.32	0.00 0.31
BALDRIDGE FASTTRACK 82F 02/10/1996 M 447863 LT UNLIMITED EASE 9108	L R WAKEFIELD & SONS NEW RICHLAND MN JERRY D VAUGHAN DERBY KS MITCHELL R COX CAMPBELLSVILLE KY	414 3722 840	14 0.91	-2.9 0.96	26 0.93	39 0.90	16 0.87	8 0.84	29	-0.1 0.81	48 436 66	10 0.59	-0.04 0.65	0.019 0.59	-0.07 0.63
HCR FLASH 5074 POLLED 03/21/1985 M 252884 HCR EXODUS 9033 POLLED	MARK THOMPSON 8603 211TH AVE N W ELK RIVER MN 55330	243 1754 524	5 0.88	-2.6 0.94	15 0.91	39 0.85	16 0.85	3 0.80	23	-0.3 0.66	17 35 11	2 0.49	0.03 0.54	-0.019 0.47	0.54 0.50
JWK CHOICE PLUS E203 ET 09/03/1995 M 439382 VCR SIR DUKE 914 PLD	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	122 822 152	10 0.74	0.6 0.91	40 0.84	63 0.78	16 0.69	3 0.64	36	1.4 0.55	6 43 15	16 0.38	0.17 0.42	-0.029 0.37	-0.09 0.36
RC LIMITLESS 136 PLD 02/14/2001 M 621086 SCHURRTOP RC SIGNATURE	R LAZY B RANCH NOME ND RAMBUR CHAROLAIS SIDNEY MT	2 184 61	5 0.58	-0.3 0.82	13 0.74	39 0.71	16 0.58	7 0.52	23	-0.2 0.64	17 57 2	20 0.43	-0.25 0.47	0.025 0.42	0.18 0.45
CJC TRADEMARK H45 02/24/1998 M 488766 LHD ALI MARK T214	LLOYD & JANE DE BRUYCKER DUTTON MT HARLAN CHAROLAIS AUSTIN TX	120 2513 423	8 0.89	2.8 0.95	32 0.91	64 0.90	15 0.81	1 0.78	30	0.6 0.85	17 193 33	19 0.48	0.12 0.52	-0.019 0.47	-0.05 0.49
SCHURRTOP HCR RANCHER 03/02/1998 M 479774 SCHURRTOP EASE 8953 PLD	SCHURR BROS FARNAM NE HUBERT CHAROLAIS RANCH OAKLEY KS LARRY & ROBBIE LEHMAN TIOGA TX	46 841 145	3 0.75	2.0 0.91	27 0.86	55 0.79	15 0.69	2 0.66	29	0.8 0.63	0 319 12	22 0.36	0.37 0.33	-0.011 0.31	0.16 0.29
LT WIND STORM 8223 PLD 04/08/1998 M 480910 LT WYOMING WIND 4020 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD GROSS & SONS FARMS MOUNTAIN HOME AR MARY E MALZAHN PERRY OK	23 445 81	11 0.75	-4.1 0.88	1 0.81	-2 0.74	15 0.61	5 0.58	15	0.0 0.62	39 59 8	-10 0.52	-0.23 0.58	0.039 0.52	0.09 0.57
CJ STING 782C 11/21/1997 M 474293 ASC ELIMINATOR 032	ALLISON CHAROLAIS 13059 FM 2159 BREMOND TX 76629	2 422 67	2 0.51	0.6 0.87	19 0.81	33 0.57	15 0.60	5 0.43	24	0.2 0.27	0 0 0	N/A	N/A	N/A	N/A
EATONS VISIONARY 2044 P 03/21/2002 M 652186 EATONS VISION 0484	WIENK CHAROLAIS RANCH LAKE PRESTON SD EATON CHAROLAIS LINDSAY MT DEER VALLEY CHAROLAIS RANCH LAURENS SC	21 413 78	6 0.78	-4.3 0.88	15 0.81	48 0.80	15 0.59	4 0.57	23	1.8 0.69	46 109 7	6 0.56	-0.65 0.62	0.022 0.57	-0.08 0.61
M6 GRID MAKER 104 PET 01/01/2001 M 633377 WCR SIR TRADITION 066	LINDSKOV-THIEL CHAROLAIS & TIM LESLIE ISABEL SD LARRY BANEY MOUNTAIN GROVE MO ABS GLOBAL INC DE FOREST WI AUFFORTH CHAROLAIS BAGLEY MN	290 2907 507	7 0.86	0.5 0.95	32 0.92	66 0.89	14 0.81	2 0.79	30	0.8 0.79	22 522 90	23 0.50	0.76 0.54	-0.032 0.48	0.12 0.51
SKYMONT FLASH 5030 02/27/1995 M 427074 HCR FLASH 5074 POLLED	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	110 537 107	7 0.74	0.8 0.89	27 0.81	36 0.67	14 0.66	9 0.60	27	-0.2 0.39	54 16 9	2 0.56	-0.09 0.63	-0.005 0.57	0.31 0.62
WCR SIR DUKE 17J ET P 01/01/2000 M 511446 VCR SIR DUKE 914 PLD	WIENK CHAROLAIS/MID TENN CHAROLAIS LAKE PRESTON SD DUBAS CHAROLAIS PAT DUBAS WOODBINE IA LEE FARMS CHAROLAIS MOORHEAD IA	16 540 105	-1 0.75	0.9 0.89	30 0.83	59 0.82	14 0.65	-2 0.63	29	0.5 0.72	0 219 7	18 0.38	0.06 0.36	-0.013 0.33	-0.01 0.32
LT POLLED VALUE 9089 03/10/1999 M 501702 WCR PRIME CUT 764 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD EATON CHAROLAIS LINDSAY MT MYERS' CIRCLE FARM ELKTON KY	142 1686 370	3 0.87	-0.9 0.94	34 0.90	64 0.88	13 0.80	7 0.78	30	1.4 0.83	48 437 45	38 0.62	0.23 0.68	0.028 0.63	0.00 0.67

TRAIT LEADERS

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
LT WIND TIME 7070 PLD 03/10/1997 M 462119 LT WYOMING WIND 4020 PLD	CLARK ALAN BREVIG 676 QUARRY VIEW LANE LEWISTOWN MT 59457	9 312 97	8 0.69	0.2 0.86	25 0.79	35 0.72	2 0.69	15 0.60	14	1.8 0.66	7 62 8	8 0.41	-0.02 0.43	0.019 0.38	0.25 0.39
HTA WHITEHOT 105A 01/19/1991 M 402510 KJP SKY FIRE 51T	H T AIREY RIVERS MANITOBA CAN NORHEIM CHAROLAIS FARM SASK CAN SANDRA CHARLES RADVILLE SASK CANADA	45 245 91	9 0.68	2.0 0.86	29 0.80	64 0.74	2 0.73	14 0.67	16	1.5 0.63	0 46 7	30 0.44	0.23 0.45	-0.013 0.41	0.09 0.42
WESTERN DOMINATOR PLD 10/07/1992 M 369656 SCHURRTOP-DC INTIMIDATOR	SILVER PLUME RANCH GARDNER CO CARDINAL CHAROLAIS HILLROSE CO	5 279 117	6 0.72	3.1 0.86	29 0.80	29 0.64	-4 0.70	13 0.64	10	0.5 0.50	0 31 3	4 0.32	0.23 0.32	-0.028 0.29	0.08 0.26
EATONS LEADER 2233 P 04/04/2002 M 652217 EATONS CANDIDATE 9177	EATON CHAROLAIS LINDSAY MT LINDSKOV-THIEL CHAROLAIS ISABEL SD	54 654 98	9 0.79	-0.2 0.90	19 0.85	43 0.81	-13 0.59	13 0.61	-3	0.6 0.71	12 234 26	13 0.44	0.37 0.47	0.067 0.42	-0.08 0.44
EATONS BEYOND 7243 04/03/1997 M 492440 EATONS CENTURION 3324	DEER VALLEY CHAROLAIS RANCH LAURENS SC EATON CHAROLAIS LINDSAY MT SOUTHERN CATTLE COMPANY MARIANNA FL	30 375 111	4 0.74	-2.3 0.87	10 0.82	23 0.78	4 0.67	13 0.61	9	0.6 0.66	54 69 13	-10 0.61	-0.23 0.67	0.024 0.62	0.47 0.66
HEP KING GRAZER 25A 02/01/1991 M 333937 BR DUKE 261	PATE CHAROLAIS RANCH LOWNDESBORO AL KINMONT FARM WAYNESBORO VA	124 1173 347	6 0.79	0.6 0.93	32 0.88	63 0.83	21 0.81	11 0.75	36	-0.3 0.56	0 68 15	32 0.39	0.26 0.39	0.031 0.35	0.09 0.35
ASC ELIMINATOR 032 03/17/1997 M 319454 HCR EXONERATOR POLLED	ARROW S FARMS SHARON SPGS KS JUDSON & DENISE BALDRIDGE NORTH PLATTE NE	500 4549 1342	9 0.92	-2.2 0.96	30 0.94	39 0.92	11 0.91	10 0.88	26	0.5 0.81	19 183 45	4 0.54	0.34 0.59	-0.004 0.54	-0.28 0.57
PF IMPRESSED 620 P ET 07/10/1996 M 450023 JWK IMPRESSIVE D040 ET	STEVE PETERSON MT GROVE MO WOODEN CROSS CATTLE CO HILLSBORO KS	79 511 148	10 0.69	1.6 0.89	30 0.82	53 0.80	3 0.72	10 0.65	18	0.8 0.52	0 20 13	14 0.34	0.16 0.33	0.008 0.30	0.17 0.28
FREDS HUSKER 7701 07/30/1997 M 472880 LT WYOMING WIND 4020 PLD	JAMIE G FRED FAMILY ROSE NE BRIAN FERRIS FORT MORGAN CO	41 400 99	5 0.74	-3.2 0.87	14 0.81	38 0.73	-4 0.65	10 0.58	4	0.6 0.58	7 75 16	11 0.39	-0.10 0.41	0.017 0.37	-0.09 0.38
NWMSU DOC SILVER 362 PLD 03/07/2003 M 669488 SS MONTANA SILVER	BJR SUMMERFORD CHAROLAIS FALKVILLE AL HUBERT CHAROLAIS RANCH OAKLEY KS	28 427 62	15 0.78	-4.8 0.87	33 0.80	64 0.76	1 0.53	10 0.56	18	0.3 0.66	25 186 13	18 0.50	-0.16 0.55	0.055 0.50	0.25 0.53
WCR SIR DAKOTA WIND 712P 02/09/1997 M 457543 LT WYOMING WIND 4020 PLD	WIENK CHAROLAIS RANCH LAKE PRESTON SD KEPPEN CHAROLAIS RANCH VOLGA SD	5 216 60	6 0.65	1.1 0.83	22 0.76	30 0.73	3 0.62	10 0.55	14	0.9 0.66	0 26 2	13 0.33	0.31 0.33	0.018 0.30	-0.02 0.28
LT WYOMING WIND 4020 PLD 02/27/1994 M 411450 SCHURRTOP 5627	LINDSKOV-THIEL CHAROLAIS ISABEL SD LARRY & ROBBIE LEHMAN TIOGA TX	547 5440 2014	5 0.92	1.2 0.97	25 0.95	41 0.93	0 0.92	9 0.90	13	1.5 0.88	56 891 120	5 0.65	0.19 0.70	0.027 0.66	0.00 0.69
JWK IMPRESSIVE D040 ET 03/29/1994 M 413653 WCR SIR FA MAC 2244	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	328 2287 790	10 0.86	0.8 0.95	24 0.92	43 0.90	3 0.87	9 0.84	15	0.1 0.78	27 166 48	13 0.57	-0.14 0.61	0.028 0.57	0.21 0.60
FH-RRR SEQUOIA 148 04/03/1988 M 282394 SILVER CREEK HIGH-RISE	BRAZOS VALLEY CHAROLAIS NAVASOTA TX	154 1090 295	-9 0.78	5.0 0.92	19 0.86	49 0.77	0 0.79	9 0.70	9	0.0 0.26	0 0 0	N/A	N/A	N/A	N/A
SKYMONT FLASH 5030 02/27/1995 M 427074 HCR FLASH 5074 POLLED	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	110 537 107	7 0.74	0.8 0.89	27 0.81	36 0.67	14 0.66	9 0.60	27	-0.2 0.39	54 16 9	2 0.56	-0.09 0.63	-0.005 0.57	0.31 0.62
BALDRIDGE FASTTRACK 82F 02/10/1996 M 447863 LT UNLIMITED EASE 9108	L R WAKEFIELD & SONS NEW RICHLAND MN JERRY D VAUGHAN DERBY KS MITCHELL R COX CAMPBELLSVILLE KY	414 3722 840	14 0.91	-2.9 0.96	26 0.93	39 0.90	16 0.87	8 0.84	29	-0.1 0.81	48 436 66	10 0.59	-0.04 0.65	0.019 0.59	-0.07 0.63
LT POLLED VALUE 9089 03/10/1999 M 501702 WCR PRIME CUT 764 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD EATON CHAROLAIS LINDSAY MT MYERS' CIRCLE FARM ELKTON KY	142 1686 370	3 0.87	-0.9 0.94	34 0.90	64 0.88	13 0.80	7 0.78	30	1.4 0.83	48 437 45	38 0.62	0.23 0.68	0.028 0.63	0.00 0.67
LT ASSERTION 1277 P 05/04/2001 M 620193 EATONS ASSERT 9171	LINDSKOV-THIEL CHAROLAIS ISABEL SD HARRIS MORGAN CAMILLA GA	96 750 171	6 0.83	-1.8 0.91	14 0.86	25 0.79	-5 0.70	7 0.65	2	-0.2 0.69	1 140 35	-9 0.36	-0.11 0.35	0.026 0.32	-0.03 0.30
EATONS TRUEVALUE 1026 03/03/2001 M 628479 LT POLLED VALUE 9089	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD EATON CHAROLAIS LINDSAY MT NOLLER & FRANK SIGOURNEY IA	53 500 115	2 0.77	1.2 0.88	25 0.83	54 0.79	11 0.66	7 0.61	23	0.7 0.65	26 98 16	20 0.50	0.47 0.55	0.008 0.49	-0.19 0.53
LT DISTANCE 5025 PLD 03/06/1995 M 428076 HTA TUNDRA PLD 222B	LINDSKOV-THIEL CHAROLAIS ISABEL SD RAMBUR CHAROLAIS SIDNEY MT LAWRENCE J DANNA WEST MONROE LA	8 412 80	5 0.76	-2.2 0.88	9 0.82	24 0.79	8 0.65	7 0.60	12	0.5 0.68	40 102 3	7 0.54	0.24 0.61	0.041 0.55	0.29 0.59
DOUBLE D P10 03/08/1990 M 321300 WDW PRESTIGE 650U	DOUBLE D CATTLE CO COSHOCTON OH SELECT SIRES INC PLAIN CITY OH	121 487 104	-3 0.66	1.7 0.88	12 0.80	40 0.70	7 0.66	7 0.56	13	0.3 0.22	0 0 0	N/A	N/A	N/A	N/A
LHD MR PERFECT Y416 03/19/1989 M 314744 WCR SIR PERFECTION 734	SCHURR BROS FARNAM NE COBB CHAROLAIS RANCH INC AUGUSTA MT LLOYD & JANE DE BRUYCKER DUTTON MT	171 1624 664	0 0.89	-0.1 0.94	20 0.91	28 0.89	8 0.88	6 0.84	18	1.1 0.78	16 19 10	13 0.54	0.26 0.59	0.022 0.52	-0.07 0.55
SPARROWS ALLIANCE 513G 02/11/1997 M 469401 LT WYOMING WIND 4020 PLD	BRIGGS.BROBERG.DYBDAL.GREER, & WILSON CHICHESTER NH LINDSKOV-THIEL CHAROLAIS ISABEL SD SOUTHERN CATTLE COMPANY MARIANNA FL	22 709 233	6 0.75	2.2 0.91	22 0.86	40 0.80	-9 0.77	6 0.72	2	0.8 0.67	11 105 5	6 0.45	0.43 0.48	0.034 0.43	-0.10 0.45
BALDRIDGE KOJACK 29K 01/16/2000 M 602060 BALDRIDGE FASTTRACK 82F	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	232 1532 234	12 0.87	-4.2 0.93	29 0.89	46 0.83	21 0.73	6 0.69	36	-0.6 0.64	7 125 41	3 0.42	-0.21 0.47	-0.003 0.42	-0.04 0.42
LT WESTERN SPUR 2061 PLD 03/04/2002 M 645786 EATONS PREDICTOR 9230	LINDSKOV-THIEL CHAROLAIS ISABEL SD ROCKY MEADOW FARM CHICHESTER NH LARRY BANAY MOUNTAIN GROVE MO	118 721 125	1 0.76	-1.0 0.90	21 0.85	39 0.79	-8 0.64	6 0.62	3	1.2 0.69	19 192 36	5 0.48	0.33 0.52	0.027 0.47	0.07 0.50

TRAIT LEADERS

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HBR CANNON 2250 ET 05/02/2002 M 652166 VCR SIR DUKE 914 PLD	DR HARLAN ROGERS PO BOX 1718 COLLINS MS 39428	8 170 9	3 0.55	0.7 0.80	43 0.64	75 0.29	24 0.34	1 0.35	45	1.0 PE	0 1 1	27 0.23	0.20 0.21	-0.025 0.18	-0.03 0.18
JDS HE'SMYKING 2038 P ET 11/28/2000 M 613519 VCR SIR DUKE 914 PLD	MID TENN CHAROLAIS MANCHESTER TN MYERS' CIRCLE FARM ELKTON KY	5 201 18	5 0.63	0.8 0.81	49 0.68	78 0.63	9 0.39	2 0.40	33	0.4 0.44	0 40 3	28 0.32	0.36 0.32	-0.010 0.29	0.05 0.27
DVCR DUKE K09 P ET 05/09/2000 M 606732 WCR SIR DUKE 761	DEER VALLEY CHAROLAIS RANCH LAURENS SC SOUTHERN CATTLE COMPANY MARIANNA FL	9 190 29	7 0.58	0.2 0.81	45 0.69	71 0.58	15 0.47	3 0.39	37	1.0 0.29	40 38 2	15 0.52	-0.09 0.58	-0.029 0.53	0.12 0.57
TW ELIMINATOR J102 P 09/02/1999 M 508565 ASC ELIMINATOR 032	AMBURGEY CHAROLAIS FARM 3171 CAMARGO RD MT STERLING KY 40353	2 303 27	5 0.50	-0.4 0.85	42 0.77	72 0.75	15 0.43	8 0.40	36	0.6 PE	0 0 0	7 PE	0.17 PE	0.000 PE	-0.11 PE
VCR SIR DUKE 914 PLD 03/01/1989 M 297007 WCR SIR DUKE 761	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD ABS GLOBAL INC DE FOREST WI	407 3779 1454	10 0.91	-0.3 0.96	40 0.94	64 0.92	21 0.91	4 0.88	41	1.3 0.84	37 338 64	16 0.59	0.07 0.65	-0.045 0.60	0.07 0.63
OAKDALE DUKE 9003P 08/18/1998 M 499574 VCR SIR DUKE 135 PLD	NORD FARMS BLOOMINGTON IL ROGER E PARKS REVOCABLE TRUST EARLSBORO OK	41 307 28	5 0.74	-3.6 0.85	26 0.78	61 0.70	27 0.40	3 0.35	40	0.9 0.52	0 63 9	12 0.32	0.20 0.31	-0.004 0.28	0.13 0.25
LCOC POLLED VALUE P063S P 02/20/2006 M 724767 LT POLLED VALUE 9089	SILVER SPUR LAND AND CATTLE LLC P O BOX 714 ENCAMPMENT WY 82325	1 53 0	5 0.42	-1.0 0.68	36 0.57	78 0.54	16 0.23	5 0.20	34	0.4 0.46	0 10 1	35 0.28	0.18 0.28	0.016 0.26	-0.01 0.24
HCR RANCHER 0161 PLD 04/03/2000 M 603259 SCHURRTOP HCR RANCHER	TIM D LESLIE P O BOX 218 SALEM AR 72576	3 160 9	7 0.55	0.8 0.80	45 0.65	76 0.29	10 0.32	8 0.30	33	0.8 0.20	0 1 1	26 0.21	0.31 0.20	0.006 0.17	-0.03 0.14
LK EASY ELIMINATOR 716 02/01/1997 M 473717 ASC ELIMINATOR 032	BOB BLACK 1115 PURDY MESA RD WHITEWATER CO 81527	1 200 34	17 0.50	-6.6 0.82	30 0.73	52 0.66	12 0.54	8 0.42	27	1.3 0.57	0 0 0	4 PE	0.16 PE	0.001 PE	-0.11 PE
LT RIO BRAVO 3181 P 03/17/2003 M 665507 LT RIO BLANCO 1234 P	LINDSKOV-THIEL CHAROLAIS ISABEL SD ABS GLOBAL INC DE FOREST WI	62 519 78	3 0.63	0.2 0.89	37 0.83	71 0.76	19 0.58	2 0.55	37	1.4 0.60	2 170 35	37 0.36	0.65 0.35	0.045 0.32	0.17 0.30
JCR SIR DUKE 041 03/05/2000 M 509856 VCR SIR DUKE 914 PLD	DANIELLE MIKKELSON LAKE PRESTON SD C-B CHAROLAIS MONTEPELIER ND LINDSKOV-THIEL CHAROLAIS ISABEL SD	15 256 43	2 0.60	-0.7 0.84	35 0.76	57 0.60	23 0.52	-5 0.44	40	1.2 0.51	0 17 2	21 0.30	0.11 0.30	-0.023 0.27	0.08 0.25
BALDRIDGE KOJACK 29K 01/16/2000 M 602060 BALDRIDGE FASTTRACK 82F	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	232 1532 234	12 0.87	-4.2 0.93	29 0.89	46 0.83	21 0.73	6 0.69	36	-0.6 0.64	7 125 41	3 0.42	-0.21 0.47	-0.003 0.42	-0.04 0.42
JWK CHOICE PLUS E203 ET 09/03/1995 M 439382 VCR SIR DUKE 914 PLD	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	122 822 152	10 0.74	0.6 0.91	40 0.84	63 0.78	16 0.69	3 0.64	36	1.4 0.55	6 43 15	16 0.38	0.17 0.42	-0.029 0.37	-0.09 0.36
WF ROADRUNNER 140 PLD 03/30/2001 M 620845 LT WYOMING WIND 4020 PLD	BEDWELL CHAROLAIS 5215 WYOMING ST OSCEOLA IA 50213	5 176 34	10 0.49	-0.8 0.81	39 0.71	68 0.28	9 0.48	9 0.45	29	1.2 0.22	0 4 1	19 0.26	0.38 0.25	0.012 0.21	-0.11 0.21
MD CIRCULAR R2003 08/26/2005 M 735576 MD OUTBACK M1046	MARK & BELVA DE BRUYCKER 2649 12TH LANE NW BYNUM MT 59419	3 99 0	6 0.43	-1.1 0.75	35 0.60	80 0.56	8 0.19	4 0.12	25	0.6 0.43	0 0 0	13 PE	0.12 PE	-0.008 PE	0.02 PE
LT WESTERN EDGE 4057 PLD 03/02/2004 M 686616 LT WESTERN SPUR 2061 PLD	HUBERT/LEHMAN/WRIGHT CHAROLAIS OAKLEY KS LINDSKOV-THIEL CHAROLAIS ISABEL SD LANE & PETERSON CATTLE CO CHARLES CITY IA	68 704 111	-1 0.72	-0.2 0.90	37 0.85	74 0.77	11 0.60	3 0.60	30	1.4 0.60	1 202 29	28 0.37	0.14 0.37	0.026 0.33	-0.08 0.31
BHD AMPLIFIE M176 02/15/2002 M 655317 CJC TRADEMARK H45	BRETT DE BRUYCKER DUTTON MT THOMAS RANCH HARROLD SD	2 126 18	8 0.51	0.0 0.79	38 0.70	61 0.71	16 0.41	-1 0.35	35	0.8 0.52	0 44 2	27 0.31	0.56 0.31	0.003 0.28	-0.14 0.25
M6 LED WEIGHT 609 03/20/2006 M 732626 M6 TRADEMARK 344 P	KYLE REEVES 1301 OLD NEWPORT HWY GREENEVILLE TN 37743	2 101 0	10 0.44	0.1 0.75	37 0.56	75 0.47	10 0.18	7 0.19	29	1.0 0.35	0 21 1	32 0.25	0.50 0.25	-0.019 0.23	0.10 0.19
ENDSLEY'S STONE'S IMAGE 748 03/06/2007 M 742489 ENDSLEY'S DUKE STONE 257	ENDSLEY'S CHAROLAIS FARMS 5590 E STATE RD HASTINGS MI 49058	1 50 0	8 0.45	0.5 0.67	40 0.55	71 0.52	9 0.21	7 0.17	29	N/A	0 0 0	N/A	N/A	N/A	N/A
SC SHADOWBROOK 449 ET 12/07/2003 M 683939 LT POLLED VALUE 9089	DR HARLAN ROGERS PO BOX 1718 COLLINS MS 39428	4 122 1	0 0.57	0.5 0.77	38 0.56	66 0.26	14 0.26	0 0.25	33	1.2 0.21	0 0 0	28 PE	0.18 PE	0.002 PE	0.03 PE
SCC SIR DUKE K255 PET 02/27/2000 M 602976 VCR SIR DUKE 914 PLD	F B G I I FARMS 18159 LEE HWY ABINGDON VA 24210	2 169 41	11 0.61	-0.8 0.80	40 0.71	63 0.28	7 0.47	6 0.42	27	0.9 PE	0 7 1	13 0.27	0.07 0.26	-0.022 0.22	0.07 0.21
OW DESIGN S519 02/18/2006 EM 733207 DA NEW DESIGN 104 P ET	OAKWATER RANCH 1040 HAWN AVE SHREVEPORT LA 71107	1 60 1	3 0.38	-1.0 0.68	34 0.57	62 0.50	14 0.23	1 0.20	31	1.3 0.41	0 15 1	21 0.26	-0.05 0.26	-0.008 0.22	0.07 0.19
LT POLLED VALUE 9089 03/10/1999 M 501702 WCR PRIME CUT 764 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD EATON CHAROLAIS LINDSAY MT MYERS' CIRCLE FARM ELKTON KY PLUCKER CHAROLAIS PARKER SD	142 1686 370	3 0.87	-0.9 0.94	34 0.90	64 0.88	13 0.80	7 0.78	30	1.4 0.83	48 437 4	38 0.62	0.23 0.68	0.028 0.63	0.00 0.67
M6 GAIN & GRADE 927 PLD 01/20/1999 M 511007 WCR SIR DUKE 761	ABS GLOBAL INC DE FOREST WI SPRING RIDGE CATTLE CO WINCHESTER KY KEVIN J MOORE ALVARADO TX	157 1067 242	1 0.80	0.4 0.92	39 0.87	66 0.81	9 0.72	0 0.67	28	1.1 0.67	44 207 43	18 0.55	-0.36 0.61	-0.037 0.54	0.40 0.58
HEP KING GRAZER 25A 02/01/1991 M 333937 BR DUKE 261	PATE CHAROLAIS RANCH LOWNDESBORO AL KINMONT FARM WAYNESBORO VA PATE CHAROLAIS RANCH LOWNDESBORO AL	124 1173 347	6 0.79	0.6 0.93	32 0.88	63 0.83	21 0.81	11 0.75	36	-0.3 0.56	0 68 15	32 0.39	0.26 0.39	0.031 0.35	0.09 0.35

TRAIT LEADERS

Name of Bull Date of Birth/Reg. No. Sire	Current Owner/Address	Herds Progeny DIP	CE EPD ACC	BW EPD ACC	WW EPD ACC	YW EPD ACC	Mat. EPD ACC	MCE EPD ACC	Total Mtnl. EPD	SC EPD ACC	Carc. Ultra U Hrd	HCW EPD ACC	REA EPD ACC	FAT EPD ACC	MARB EPD ACC
LT POLLED VALUE 9089 03/10/1999 M 501702 WCR PRIME CUT 764 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD EATON CHAROLAIS LINDSAY MT MYERS' CIRCLE FARM ELKTON KY PLUCKER CHAROLAIS PARKER SD	142 1686 370	3 0.87	-0.9 0.94	34 0.90	64 0.88	13 0.80	7 0.78	30	1.4 0.83	48 437 45	38 0.62	0.23 0.68	0.028 0.63	0.00 0.67
WCR PRIME CUT 764 PLD 03/01/1997 M 460645 JWK IMPRESSIVE D040 ET	WIENK CHAROLAIS RANCH LAKE PRESTON SD ASCHERMANN CHAROLAIS CARTHAGE MO LINDSKOV-THIEL AND KARR FARMS HOLLY SPRINGS MS LARRY BANEY MTN GROVE MO	360 3427 918	8 0.89	-0.3 0.96	27 0.93	57 0.92	-1 0.88	5 0.84	13	1.1 0.82	50 472 63	37 0.61	-0.09 0.67	0.045 0.62	0.10 0.65
RC MONTANA 644 POLLED 02/17/1996 M 444364 HTA WHITEHOT 105A	RAMBUR CHAROLAIS SIDNEY MT HEBBERT CHAROLAIS HYANNIS NE	36 803 223	3 0.75	1.7 0.91	18 0.87	50 0.82	10 0.77	4 0.74	19	0.8 0.68	82 261 9	32 0.64	-0.18 0.70	0.007 0.66	0.20 0.70
SKYMONT EASE 2078 03/12/1992 M 360699 LT UNLIMITED EASE 9108	SILVER HILLS FARM HOLLAND MN WIENK CHAROLAIS RANCH LAKE PRESTON SD	255 1581 537	-3 0.84	1.2 0.94	26 0.90	52 0.88	-3 0.85	0 0.81	10	0.9 0.76	32 81 22	28 0.56	0.24 0.61	-0.011 0.56	-0.03 0.59
LHD ALI MARK T214 03/28/1985 M 260394 ABC ALI HERCULES	DENNIS & MARTHA DREYER SEELEY LAKE LLOYD & JANE DE BRUYCKER DUTTON MT	56 1521 585	3 0.86	0.4 0.94	20 0.91	34 0.89	11 0.86	1 0.82	21	1.0 0.76	25 35 9	24 0.56	0.39 0.62	-0.043 0.55	-0.09 0.59
BR DUKE 261 04/24/1983 M 246564 BR DUKE 295	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	246 2647 1150	-7 0.89	2.2 0.95	34 0.93	51 0.92	12 0.91	-3 0.88	29	0.4 0.84	26 32 8	21 0.56	-0.03 0.62	0.000 0.56	0.07 0.59
LT THUNDERING WIND 5200P 03/09/2005 M 705186 LT WYOMING WIND 4020 PLD	LINDSKOV-THIEL CHAROLAIS ISABEL SD BJR SUMMERFORD CHAROLAIS FALKVILLE AL	40 490 44	3 0.61	0.7 0.88	39 0.82	63 0.77	-2 0.45	-3 0.45	18	1.6 0.69	40 170 21	21 0.55	-0.01 0.61	0.060 0.56	0.13 0.59
WCR SIR FA MAC 2244 04/05/1982 M 234430 WCR SIR FAB MAC 809	VEDVEI CHAROLAIS RANCH 44213 204TH ST LAKE PRESTON SD 57249	201 1637 832	-5 0.85	2.9 0.95	29 0.92	58 0.90	11 0.89	5 0.85	25	0.4 0.77	13 26 11	19 0.55	0.01 0.59	0.008 0.55	0.11 0.57
M6 GAIN & GRADE 927 PLD 01/20/1999 M 511007 WCR SIR DUKE 761	ABS GLOBAL INC DE FOREST WI SPRING RIDGE CATTLE CO WINCHESTER KY KEVIN J MOORE ALVARADO TX JOE & LINDA GARCIA DONALSONVILLE GA	157 1067 242	1 0.80	0.4 0.92	39 0.87	66 0.81	9 0.72	0 0.67	28	1.1 0.67	44 207 43	18 0.55	-0.36 0.61	-0.037 0.54	0.40 0.58
VCR SIR DUKE 914 PLD 03/01/1989 M 297007 WCR SIR DUKE 761	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD ABS GLOBAL INC DE FOREST WI VEDVEI CHAROLAIS RANCH LAKE PRESTON SD	407 3779 1454	10 0.91	-0.3 0.96	40 0.94	64 0.92	21 0.91	4 0.88	41	1.3 0.84	37 338 64	16 0.59	0.07 0.65	-0.045 0.60	0.07 0.63

TRAIT LEADERS

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M6 BIG TOP 268 PLD ET 03/19/2002 M 655289 LHD CIGAR E46	ROGER E PARKS REVOCABLE TRUST 36455 ST HWY 9 WEWOKA OK 74884	17 258 34	4 0.56	1.6 0.84	27 0.70	30 0.65	2 0.44	6 0.43	16	0.3 0.43	38 90 6	12 0.53	0.88 0.59	0.022 0.54	0.18 0.58
M6 FUNCTION 169 PET 03/07/2001 M 631721 LHD CIGAR E46	STALLINGS CHAROLAIS 1169 OLD DANDRIDGE PIKE NEW MARKET TN 37820	47 286 51	3 0.62	1.1 0.85	16 0.75	37 0.65	21 0.49	3 0.48	29	0.6 0.50	26 53 10	1 0.51	0.84 0.56	-0.049 0.51	-0.13 0.55
RCR TRADITIONS NED P0425 04/01/2000 M 600127 WCR SIR TRADITION 066	RICKETTS CHAROLAIS RANCH 14800 TUCKER SCHOOL ROAD HALLSVILLE MO 65255	14 131 19	3 0.47	1.1 0.77	30 0.66	53 0.64	-1 0.38	4 0.31	14	0.0 0.41	37 8 3	7 0.49	0.79 0.56	-0.040 0.51	-0.19 0.56
LHD CIGAR E46 02/15/1995 M 434790 LHD MR PERFECT Y416	LLOYD & JANE DE BRUYCKER DUTTON MT JOCKO VALLEY CHAROLAIS ARLEE MT	283 3487 1037	-3 0.87	3.2 0.96	31 0.93	50 0.91	9 0.88	6 0.85	25	0.8 0.86	11 378 74	15 0.55	0.61 0.60	-0.011 0.55	-0.36 0.58
JDJSSRSMOKINJOEJ1382ET 02/26/1999 M 506485 LHD CIGAR E46	JACQUE DE BRUYCKER DUTTON MT SILVER SPUR LAND AND CATTLE LLC ENCAMPMENT WY	28 583 88	-7 0.60	4.3 0.89	35 0.84	41 0.80	13 0.65	-2 0.58	30	1.8 0.73	35 96 7	23 0.52	0.60 0.58	-0.036 0.53	-0.26 0.56
EATONS TRUEVALUE 1026 03/03/2001 M 628479 LT POLLED VALUE 9089	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD EATON CHAROLAIS LINDSAY MT NOLLER & FRANK SIGOURNEY IA	53 500 115	2 0.77	1.2 0.88	25 0.83	54 0.79	11 0.66	7 0.61	23	0.7 0.65	26 98 16	20 0.50	0.47 0.55	0.008 0.49	-0.19 0.53
LHD ALI MARK T214 03/28/1985 M 260394 ABC ALI HERCULES	DENNIS & MARTHA DREYER SEELEY LAKE LLOYD & JANE DE BRUYCKER DUTTON MT	56 1521 585	3 0.86	0.4 0.94	20 0.91	34 0.89	11 0.86	1 0.82	21	1.0 0.76	25 35 9	24 0.56	0.39 0.62	-0.043 0.55	-0.09 0.59
WCR SIR TRADITION 066 02/27/1990 M 318119 WCR SIR TRADITION 4402	WIENK CHAROLAIS RANCH LAKE PRESTON SD J-MAR GENETICS GOODE VA	178 1820 707	-2 0.86	1.7 0.94	27 0.91	51 0.90	2 0.87	-3 0.84	16	0.4 0.82	29 161 31	9 0.57	0.37 0.61	-0.038 0.57	0.02 0.60
ASC ELIMINATOR 032 03/17/1990 M 319454 HCR EXONERATOR POLLED	ARROW S FARMS SHARON SPGS KS JUDSON & DENISE BALDRIDGE NORTH PLATTE NE	509 4549 1342	9 0.92	-2.2 0.96	30 0.94	39 0.92	11 0.91	10 0.88	26	0.5 0.81	19 183 45	4 0.54	0.34 0.59	-0.004 0.54	-0.28 0.57
BALDRIDGE CADILLAC 74E 03/18/1995 M 431824 HBR PERFORMER 181 P	HEBBERT CHAROLAIS HYANNIS NE DISMUKES RANCH ELK GROVE CA	33 908 249	2 0.78	-0.4 0.92	25 0.88	35 0.79	5 0.78	0 0.75	18	1.5 0.62	48 219 13	8 0.56	0.29 0.62	0.024 0.57	0.06 0.61

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VCR SIR DUKE 914 PLD 03/01/1989 M 297007 WCR SIR DUKE 761	VEDVEI CHAROLAIS RANCH LAKE PRESTON SD ABS GLOBAL INC DE FOREST WI	407 3779 1454	10 0.91	-0.3 0.96	40 0.94	64 0.92	21 0.91	4 0.88	41	1.3 0.84	37 338 64	16 0.59	0.07 0.65	-0.045 0.60	0.07 0.63
LHD ALI MARK T214 03/28/1985 M 260394 ABC ALI HERCULES	DENNIS & MARTHA DREYER SEELEY LAKE LLOYD & JANE DE BRUYCKER DUTTON MT	56 1521 585	3 0.86	0.4 0.94	20 0.91	34 0.89	11 0.86	1 0.82	21	1.0 0.76	25 35 9	24 0.56	0.39 0.62	-0.043 0.55	-0.09 0.59
WCR SIR TRADITION 066 02/27/1990 M 318119 WCR SIR TRADITION 4402	WIENK CHAROLAIS RANCH LAKE PRESTON SD J-MAR GENETICS GOODE VA	178 1820 707	-2 0.86	1.7 0.94	27 0.91	51 0.90	2 0.87	-3 0.84	16	0.4 0.82	29 161 31	9 0.57	0.37 0.61	-0.038 0.57	0.02 0.60
SKYMONT EASE 2078 03/12/1992 M 360699 LT UNLIMITED EASE 9108	SILVER HILLS FARM HOLLAND MN WIENK CHAROLAIS RANCH LAKE PRESTON SD	255 1581 537	-3 0.84	1.2 0.94	26 0.90	52 0.88	-3 0.85	0 0.81	10	0.9 0.76	32 81 22	28 0.56	0.24 0.61	-0.011 0.56	-0.03 0.59
LHD CIGAR E46 02/15/1995 M 434790 LHD MR PERFECT Y416	LLOYD & JANE DE BRUYCKER DUTTON MT JOCKO VALLEY CHAROLAIS ARLEE MT	283 3487 1037	-3 0.87	3.2 0.96	31 0.93	50 0.91	9 0.88	6 0.85	25	0.8 0.86	11 378 74	15 0.55	0.61 0.60	-0.011 0.55	-0.36 0.58
SKYMONT FLASH 5030 02/27/1995 M 427074 HCR FLASH 5074 POLLED	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	110 537 107	7 0.74	0.8 0.89	27 0.81	36 0.67	14 0.66	9 0.60	27	-0.2 0.39	54 16 9	2 0.56	-0.09 0.63	-0.005 0.57	0.31 0.62
4-L UNLIMITED YL13POLLED 02/26/1989 M 301495 BCR POLLED UNLIMITED 003	DARWIN H OLIVER SHADEHILL S D PETERSON'S 4L PIERRE SD & MATT SUTTON AG GOOSE POND FARM PULASKI TN	201 2026 598	9 0.88	-3.7 0.94	13 0.91	31 0.90	13 0.86	4 0.81	19	0.0 0.69	54 45 10	-4 0.58	-0.19 0.64	-0.004 0.58	-0.13 0.62
BR DUKE 261 04/24/1983 M 246564 BR DUKE 295	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	246 2647 1150	-7 0.89	2.2 0.95	34 0.93	51 0.92	12 0.91	-3 0.88	29	0.4 0.84	26 32 8	21 0.56	-0.03 0.62	0.000 0.56	0.07 0.59
RC MONTANA 644 POLLED 02/17/1996 M 444364 HTA WHITEHOT 105A	RAMBUR CHAROLAIS SIDNEY MT HEBBERT CHAROLAIS HYANNIS NE	36 803 223	3 0.75	1.7 0.91	18 0.87	50 0.82	10 0.77	4 0.74	19	0.8 0.68	82 261 9	32 0.64	-0.18 0.70	0.007 0.66	0.20 0.70
WCR SIR FA MAC 2244 04/05/1982 M 234430 WCR SIR FAB MAC 809	VEDVEI CHAROLAIS RANCH 44213 204TH ST LAKE PRESTON SD 57249	201 1637 832	-5 0.85	2.9 0.95	29 0.92	58 0.90	11 0.89	5 0.85	25	0.4 0.77	13 26 11	19 0.55	0.01 0.59	0.008 0.55	0.11 0.57

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EATONS BEYOND 7243 04/03/1997 M 492440 EATONS CENTURION 3324	DEER VALLEY CHAROLAIS RANCH LAURENS SC EATON CHAROLAIS LINDSAY MT SOUTHERN CATTLE COMPANY MARIANNA FL	30 375 111	4 0.74	-2.3 0.87	10 0.82	23 0.78	4 0.67	13 0.61	9	0.6 0.66	54 69 13	-10 0.61	-0.23 0.67	0.024 0.62	0.47 0.66
M6 GAIN & GRADE 927 PLD 01/20/1999 M 511007 WCR SIR DUKE 761	ABS GLOBAL INC DE FOREST WI SPRING RIDGE CATTLE CO WINCHESTER KY KEVIN J MOORE ALVARADO TX JOE & LINDA GARCIA DONALSONVILLE GA	157 1067 242	1 0.80	0.4 0.92	39 0.87	66 0.81	9 0.72	0 0.67	28	1.1 0.67	44 207 43	18 0.55	-0.36 0.61	-0.037 0.54	0.40 0.58
EATONS BULLSEYE 3033 TW 03/13/2003 M 660576 EATONS BEYOND 7243	RIVERDALE BULLSEYE SYNDICATE 3287 LICK CREEK ROAD LEASBURG MO 65535	14 160 23	5 0.66	0.1 0.80	11 0.67	36 0.61	13 0.41	14 0.41	18	1.3 0.45	45 33 9	4 0.53	-0.64 0.60	0.030 0.54	0.39 0.59
LT EASY PRO 1158 PLD 03/18/2001 M 620348 LT UNLIMITED EASE 9108	LINDSKOV-THIEL CHAROLAIS ISABEL SD BJR SUMMERFORD CHAROLAIS FALKVILLE AL	87 999 159	8 0.82	-1.6 0.92	24 0.87	38 0.83	21 0.68	-4 0.65	33	-0.2 0.72	41 320 31	15 0.56	-0.03 0.61	0.018 0.56	0.38 0.60
SKYMONT FLASH 5030 02/27/1995 M 427074 HCR FLASH 5074 POLLED	SELECT SIRES INC 11740 US 42 PLAIN CITY OH 43064	110 537 107	7 0.74	0.8 0.89	27 0.81	36 0.67	14 0.66	9 0.60	27	-0.2 0.39	54 16 9	2 0.56	-0.09 0.63	-0.005 0.57	0.31 0.62
LT DISTANCE 5025 PLD 03/06/1995 M 428076 HTA TUNDRA PLD 222B	LINDSKOV-THIEL CHAROLAIS ISABEL SD RAMBUR CHAROLAIS SIDNEY MT LAWRENCE J DANNA WEST MONROE LA	8 412 80	5 0.76	-2.2 0.88	9 0.82	24 0.79	8 0.65	7 0.60	12	0.5 0.68	40 102 3	7 0.54	0.24 0.61	0.041 0.55	0.29 0.59
SS MONTANA SILVER 01/17/1996 M 454024 \$ CECILE COBB	LINDSKOV-THIEL CHAROLAIS ISABEL SD CHARNICH FARMS HIGH PRAIRE ALBERTA CANA ALTA GENETICS INC BALZAC AB	85 705 177	-1 0.76	0.2 0.90	30 0.86	56 0.82	-12 0.73	1 0.68	3	0.6 0.70	43 120 19	14 0.56	-0.21 0.62	0.015 0.56	0.28 0.60
WCR SIR FAB MAC 809 03/05/1978 M 202427 FRISBIE MAC POLLED 257	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	57 875 527	-2 0.86	-2.0 0.93	14 0.91	21 0.91	8 0.88	-12 0.83	15	0.5 0.81	26 8 3	9 0.53	-0.31 0.58	0.013 0.53	0.23 0.57
JWK IMPRESSIVE D040 ET 03/29/1994 M 413653 WCR SIR FA MAC 2244	WIENK CHAROLAIS RANCH 44210 205TH STREET LAKE PRESTON SD 57249	328 2287 790	10 0.86	0.8 0.95	24 0.92	43 0.90	3 0.87	9 0.84	15	0.1 0.78	27 166 48	13 0.57	-0.14 0.61	0.028 0.57	0.21 0.60
RC MONTANA 644 POLLED 02/17/1996 M 444364	RAMBUR CHAROLAIS SIDNEY MT HEBBERT CHAROLAIS HYANNIS NE	36 803	3 0.75	1.7 0.91	18 0.87	50 0.82	10 0.77	4 0.74	19	0.8 0.68	82 261	32 0.64	-0.18 0.70	0.007 0.66	0.20 0.70