

GTS RED ANGUS SUMMARY FALL 2007

Using GTS in Sire Selection

GTS ALLOWS BREEDERS TO MAKE THE MOST INFORMED BREEDING DECISIONS IN THE INDUSTRY.

The ABS GTS (Genetic Type Summary) program accurately and objectively describes physical trait differences for individual sires' progeny. By using the STAs (Standardized Transmitting Abilities) beef breeders can anticipate the type, or physical characteristics, that a bull will transmit to his offspring. STAs for each trait are calculated using herdmate comparisons on large numbers of a sire's progeny using a linear evaluation system.

These linear proofs are computed using statistical procedures similar to those used to calculate EPDs. STAs indicate how bulls compare for each trait included in the evaluation.

STAs also allow breeders to determine where a bull ranks within a given population for each trait. A bull with an STA of 0.0 is average for that trait, compared to all other bulls evaluated. For any given trait, the majority of the STAs on all bulls evaluated will be near 0.0. In fact, approximately 68 percent of the sires' STAs should fall between -1.0 and +1.0 with over 99 percent between -3.0 and +3.0. Keep in mind that the population dealt within these GTS analyses is not the entire breed, but a relatively select group of animals that are predominantly A.I. sired.

This chart illustrates the STA range and the description of the traits relative to the STAs. It also shows the percentage of the bull population that scores in that STA range.

2005 GTS Data	STA	#HEAD	-2	-1	0	+1	+2
Stature	-0.6	1221			■		
Capacity	+0.8	1221				■	
Body Length	+0.7	1221				■	
Muscling	+0.9	1221				■	
Rear Legs	-0.2	1221		■			
Feet & Pasterns	+0.8	1221				■	
Femininity	+1.1	760				■	
Udder Attachment	+3.1	243					■
Udder Depth	+2.2	243					■
Teat Size	+3.9	243					■

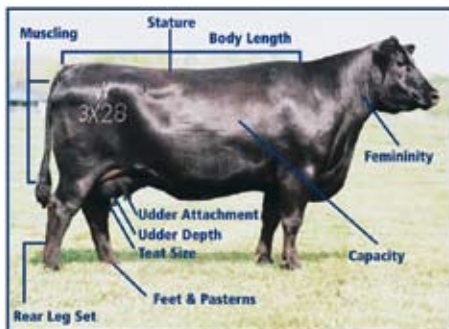
Comments: Reduced frame; Added capacity & body length; Heavy muscled; Strong feet & pasterns; Outstanding teat & udder quality

READING THE INFORMATION INDIVIDUAL SIRES

For example, 29AN1413 EXT's STA for muscle is +0.9. This indicates that he sires progeny that are heavier muscled than nearly 84% of the sires evaluated, as can be seen by referring back to the GTS Distribution Range chart.

The number of progeny evaluated is provided in the GTS charts to give breeders an estimate of the reliability of the STAs. The higher the number of progeny evaluated, the greater the reliability of the STAs. For some sires, a Pedigree Estimate (PE) will be given. This indicates that the bull's STAs are based on the STAs of his sire and maternal grandsire, not his progeny.

New, updated GTS information will be available beginning October 15 on the ABS website.



GENETIC TYPE SUMMARY

An objective linear evaluation of a bull's transmitting ability for various physical traits.

GTS describes differences between bulls' progeny and does not attempt to classify cattle based on an ideal animal.

STA (Standard Transmitting Ability) - A standardized measure of a sire's transmitting ability for a given trait.

STAs indicate how bulls compare, or relate to each other, for each trait included in the evaluation.

STAs also allow you to determine where a bull falls within a given population for each trait. A bull with an STA of 0.0 is average for that trait compared to all other bulls evaluated. For any given trait, the majority of the STAs on all bulls evaluated will be near 0.0. In fact, 68 percent of the sires' STAs should fall between -1.0 and +1.0, with 99 percent between -3.0 and +3.0.

Head (Progeny Number) - Provides a measure of accuracy by indicating the number of a bull's progeny that have been evaluated for a given trait.

Stature - Evaluation of progeny frame size, based on hip height. Higher STA indicates taller size.

Capacity - Progeny evaluation combines depth of fore rib along with spring of rib and width of chest floor as well as depth of flank. Higher STA indicates larger capacity.

Body Length - Evaluation of progeny length from withers to pins. Higher STA indicates longer body length.

Muscling - Progeny evaluation combines width of rump and hindquarter, with secondary consideration given to forearm muscling. Higher STA indicates more muscling.

Rear Leg Set - Evaluation of progeny rear leg structure, with STAs near 0 being ideal. Higher STAs tend towards sickle hocked; lower STAs tend towards posty.

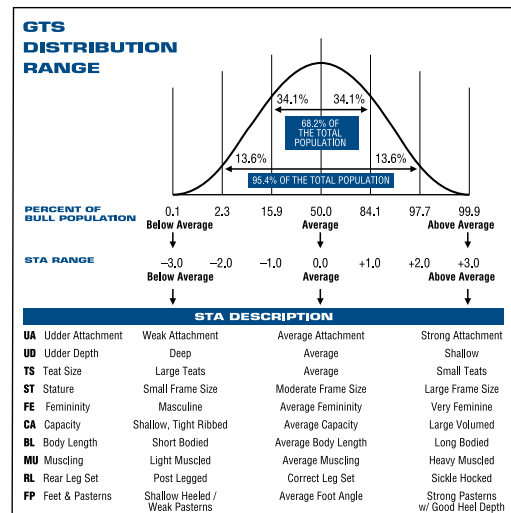
Feet and Pasterns - Evaluation of progeny length and strength of pastern and foot angle. Higher STA indicates stronger pastern with more depth of heel.

Femininity - Evaluation of daughters' angularity and their ability to carry condition without becoming coarse and masculine. Higher STA indicates more femininity.

Udder Attachment - Daughter evaluation combines fore udder attachment, rear udder height, rear udder width, and center support. Higher STA indicates stronger attachment.

Udder Depth - Evaluation of daughters' udder depth from top of fore udder to udder floor. Higher STA indicates higher, better supported udders.

Teat Size - Evaluation of daughters' teat size, including length and diameter. Higher STA indicates smaller teat size.



Fall 2007 GTS

ABS Red Angus Sires



NAAB Code	Name	Stature	Feminity	Capacity	Body Length	Muscling	Rear Legs	Feet & Pasterns	Udder Attach	Udder Depth	Teat Size	Prog Body	Prog Fem	Prog Udder	Herds
AR0142	LOGAN	0.1	0.4	0.1	-0.4	-0.1	0.1	-0.6	0.8	0.6	1.0	174	119	48	23
AR0151	CANYON	-1.2	-2.4	1.0	-1.4	0.5	-0.6	0.7	-0.3	-1.3	-1.8	180	133	59	13
AR0156	ABOVE HEAVEN	-0.2	0.9	0.5	0.3	0.1	-1.3	-1.5	-0.5	0.1	-0.5	112	28	12	6
AR0174	REBELLAS ROBINHOOD	-0.5	0.5	-0.4	-0.1	0.6	-0.3	0.9				30	17		5
AR0176	JR 107	1.8	1.5	-0.2	3.4	0.0	2.2	-1.7				24	24		5
AR0177	HI HO 849	-0.3	0.2	-0.1	0.1	0.1	-0.3	-0.1				PE	PE	PE	1
AR0178	BANDITO CINCO	0.3	-0.1	0.3	0.5	0.3	-0.5	0.0	0.0	-0.1	0.0	PE	PE	PE	0
AR0180	7U NEW DAY	-0.2	-0.5	0.2	0.1	-0.1	-0.3	-0.2	-0.1	-0.2	-0.9	PE	PE	PE	0
AR0182	BASIN 79E	-1.3	-0.2	-0.6	-0.3	-1.1	1.1	-1.6	-0.1	0.4	0.6	38	26	20	6
AR0183	ABOVE & BEYOND	-0.3	2.3	-0.8	1.7	-0.3	0.9	-1.8	-0.1	0.0	-0.1	55	38	20	2
AR0186	CHEROKEE CANYON	-1.9	-2.4	0.9	-2.2	2.9	-4.3	4.2	1.1	0.8	-0.1	258	161	73	15
AR0187	LANCER	-1.6	-1.4	1.5	-2.5	1.3	0.5	-2.3	0.8	1.6	1.4	78	67	27	5
AR0191	MARIAH	0.1	-0.2	0.0	0.1	0.0	-0.2	-0.3	0.3	0.2	0.0	PE	PE	PE	0
AR0195	FOUNDATION	-0.5	-0.6	0.2	-0.5	0.5	0.1	0.1				PE	PE	PE	1
AR0196	CHEYENNE	-0.3	-0.4	0.1	1.3	0.3	-1.3	1.4	0.6	0.4	0.0	48	30	PE	5
AR0199	ROMEO	-0.8	-2.7	1.4	-0.8	-1.2	-0.4	-0.4	-0.8	-0.4	-0.2	74	71	17	5
AR0200	VAQUERO	0.3	0.0	-0.1	0.7	0.3	-0.2	0.0				PE	PE	PE	2
AR0201	COMBINATION	1.3	-0.1	-0.9	1.6	-0.2	-1.5	0.0				30	25		3
AR0203	STERLING	-0.7	-0.5	0.8	-1.0	0.5	0.3	-0.9	0.1	0.7	0.6	PE	PE	PE	0
AR0205	JUDGE	-1.1	-1.3	1.1	-1.1	0.4	0.1	-0.6				PE	PE	PE	0
AR0208	SHOCO DATA	-0.2	-1.1	2.2	1.4	2.5	-0.5	1.2	0.1	-0.3	0.8	32	32	14	2
AR0209	OUTER LIMIT	0.0	1.3	-0.4	1.1	0.0	0.6	-1.0	0.2	-0.1	-0.1	PE	PE	PE	0
AR0211	DAKOTA COPPER	1.2	-0.1	-0.3	2.3	1.0	-1.3	1.0	0.5	0.6	-0.2	15	15	15	1
AR0212	CELEBRATION	-1.1	-1.1	1.2	-1.0	0.4	-0.1	-0.9				PE	PE	PE	0
AR0214	LARAMIE	-0.5	-0.2	-0.1	0.6	-0.1	-0.4	0.3				PE	PE	PE	0
AR0215	GRAVITY	-0.8	-1.3	0.7	-0.9	1.7	-2.6	1.8	0.9	0.3	-0.3	PE	PE	PE	2
AR0218	NORSEMAN KING	0.0	1.6	-0.4	0.2	-0.3	-0.5	0.4				18	18		1
AR0219	CITADEL	0.5	0.6	0.0	0.7	0.5	-0.8	0.7	-0.1	-0.5	-1.4	PE	PE	PE	0