

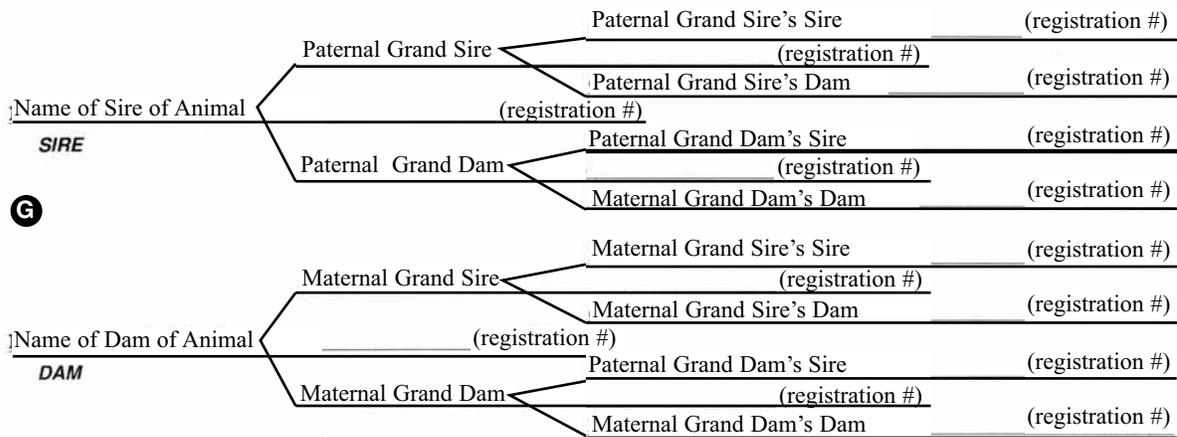


**Red Angus Association of America**  
 4201 North Freestone 35 - Denton, Texas 76207-3415  
 (940) 387-3502 - FAX (940) 383-4036  
**ANGUS PLUS**  
**CERTIFICATE OF REGISTRATION**

Issued for: **NAME OF ANIMAL** **1**  
 100.0%-AR **B**  
 Category 1A

Reg. #: 000000 Sex: **COW**  
 Birthdate: 07/27/2001  
 RE/LE: **C**  
 Color: Black Hair Coat HPS: **E**

Breeder: Name of Breeder, Town, State (Account #)  
 Owner(s): Name of Owner, Town, State (Account #) (Percent Owned) **F**



Performance as of 03/21/2002 **H**

2007 EPDs				PERFORMANCE		PROGENY AVERAGES					
EPD/Acc	Individual	Sire	Dam	ITEM	Individual	Category	Indiv.	Sire	Dam	M.G.Sire	M.G.Dam
BW/Acc	<b>A</b> .6/29	2.1/37	1.8/44	B.DATE	<b>A</b> 7/27/2001	MPPA	<b>A</b>		100		94
WW/Acc	<b>B</b> 24/15	31/33	17/34	B.WT	<b>B</b> 68	B.Grps	<b>B</b>	4		4	6
YW/Acc	<b>C</b> 37/14	49/32	26/30	B.Ratio	<b>C</b> 98	B.Prog	<b>C</b>	6	3	13	6
Milk/Acc	<b>D</b> 13/12	11/28	14/23	W.Adj	<b>D</b> 564	B.Ratio	<b>D</b>	101	101	91	95
TM	<b>E</b> 24	26	23	W.Ratio	<b>E</b> 100	W.Grps	<b>E</b>	5	3	7	6
ME/Acc	<b>F</b>			W.Conts	<b>F</b> 1	W.Prog	<b>F</b>	5	3	14	6
CED/Acc	<b>G</b> /	/	/	Y.Adj	<b>G</b>	W.Ratio	<b>G</b>	100	100	97	93
HPG/Acc	<b>H</b>			Y.Ratio	<b>H</b>	Y.Grps	<b>H</b>				
CETM/Acc	<b>I</b> 11/12	13/24	8/24	Y.Conts	<b>I</b>	Y.Prog	<b>I</b>				
Stay/Acc	<b>J</b> /	.01/P	/	Scrotal	<b>J</b>	Y.Ratio	<b>J</b>				
BFAT/Acc	<b>K</b> /	-.01/P	/	Mat.Wt.	<b>K</b>	Breeding Service <b>A</b>					
REA/Acc	<b>L</b> /	-.08/P	/	BCS	<b>L</b>	Sire	Mtg	In	Out		
MARB/Acc	<b>M</b>					(Reg. #) (Mating) (Pasture exposure dates)					

Seller: Name of Seller **B**

Sale Date: DATE OF SALE  
 Multi-owned (#)

*W. Steven Anderson*  
**PRESIDENT**

Issued 03/21/2002  
 Issue date of certificate

This is to certify that the animal and ancestors described in this registry certificate have been accepted for entry in the Red Angus herobook. This certificate is issued in full reliance upon the truth of the statements contained in the registration application filed therefore and in accordance with the Constitution and By-Laws of the Association.

# RED ANGUS ASSOCIATION OF AMERICA

## REGISTRATION CERTIFICATE KEY

### 1 General Certificate Info

#### A Angus Plus -

If the animal meets the following criteria, **Angus Plus** will appear here on the certificate:

Angus Plus cattle will be defined as those cattle that are Brahman/Angus derivatives that have been derived from purebred lines (Red Angus, Angus, Brahman, Red Brangus, and/or Brangus) between 65% and 96% registered red or black Angus and minimum of 4% registered Brahman. Birth date, weaning date and weaning weight are required in order to be registered as Angus Plus. After December 31, 2007, Angus Plus cattle that have been bred up, i.e. with commercial cattle in their pedigree will no longer be designated Angus Plus X, and will be registered in their appropriate category. Animals registered prior to December 31, 2007 will remain Angus Plus X.

#### B Registration Category-

- Category 1A - 100% Red Angus blood content, no disqualifying features
- Category 1B - From 87% to and including less than 100% Red Angus blood content, no disqualifying features
- Category II - Equal to or greater than 87% up to and including 100% Red Angus blood content having one or more disqualifying characteristics
- Category III - Less than 87% Red Angus blood content

#### C RE/LE (Tattoo)-

- Right ear (RE) is tattooed with the **first owner's** tattoo code letters and may carry the last digit of the calf's birth year.
- Left ear (LE) is tattooed with an identification number from the numbering system of the owners choice.

#### D Color- (Calf's color)

- solid red
- ineligible white
- black hair coat
- black skin pigment
- any other

#### E HPS- HPS code

- H = horned
- P = polled
- S = scurred

#### F % owned and account # in the RAAA database

The % owned by the owner listed on the registration certificate is printed here.

#### G Pedigree:

Details the pedigree of the animal

#### H Date of EPDs

This date is the same as the issue date of the certificate and indicates the EPDs and performance information on record for the animal as of this date.

### 2 Current EPDs Chart

This chart lists the most recent EPDs that are available at the time of certificate printing for the individual animal, the Sire, and the Dam of that animal. You will find the following definitions helpful in understanding the EPDs.

Individual - Individual

Sire- Father of the individual

Dam- Mother of the individual

Accuracy (Acc)- A measure of the reliability of an EPD. Accuracy values are reported as decimal numbers between zero and one. Values closer to one indicate larger amounts of available information and greater certainty that a bull's EPD will not change significantly as more progeny information becomes available.

## Current EPDs Chart (cont'd)

- A** Birth Weight (BW) EPD- A sire's expected progeny difference (lb) for mature dam equivalent birth weight of a calf. Progeny of sires with lower birth weight EPD values will generally be born with less calving difficulty.
- B** Weaning Weight (WW) EPD- A sire's expected progeny difference (lb) for 205-day, mature dam equivalent weaning weight. A sire's weight EPD is an indication of growth to weaning. It does not indicate milk production.
- C** Yearling Weight (YW) EPD- A sire's expected progeny difference (lb) for 365-day, mature dam equivalent yearling weight. The yearling weight EPD is a measure of growth from birth to a year of age.
- D** Maternal Milk (Milk) EPD- The expected difference (due to milk production alone) in weaning weight of calves out of a bull's daughters compared to calves from daughters of a bull with a zero EPD for maternal milk. Maternal milk EPD values are measured in pounds of calf weaned and indicate milking ability.
- E** Total Maternal (TM) EPD- The expected overall difference (lb) in weaning weight of calves out of a bull's daughters compared to calves from daughters of a bull with a zero EPD for total maternal. The total maternal EPD is a measure of both growth and milking ability and is an indicator of the size of a calf a bull's daughter will wean.
- F** Maintenance Energy (ME): Predicts differences in energy requirements of mature daughters of an individual and is expressed in Mega-calories per month.
- G** Calving Ease Direct (CED) EPD: The percent probability difference that a sire's progeny will be born unassisted. Higher values indicate greater calving ease of a sire's progeny.
- H** Heifer Pregnancy (HPG) EPD- The percent probability a sire's daughters will become pregnant if exposed.
- I** Calving Ease Total Maternal (CETM) EPD: The percent probability difference that a sire's daughters will calve unassisted. Higher values indicate greater calving ease of a sire's daughters' progeny.
- J** Stayability (Stay) EPD- The expected difference in probability of daughters staying in the herd to at least the age of six years. Since cows are usually only culled for being open before the age of six, the EPD is primarily a measure of sustained fertility in female offspring.
- K** Back Fat Thickness (BFAT) EPD: The expected difference in fat thickness (inches) measured between the 12th and 13th rib of a sire's progeny.
- L** Rib Eye Area (REA) EPD: The expected difference in rib eye area (cm<sup>2</sup>) measured between the 12th and 13th rib of a sire's progeny. Higher values may be an indication of higher lean meat yields on slaughter progeny.
- M** Marbling (MARB) EPD: The expected difference in marbling score (on a scale of 2 to 10) of a sire's progeny. Higher values tend to be associated with higher USDA quality grades on slaughter progeny..

### 3 Performance Chart

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 as:  $(\text{Individual Record} / \text{Average of Cattle in Group}) \times 100$

- A** Birth Date (B. DATE)- Birth date of the individual
- B** Birth Weight (B. WT)- Weight of the individual at birth
- C** Birth Weight Ratio (B. Ratio)- The birth weight of the individual relative to the birth contemporary group.
- D** Adjusted Weaning Weight (W. Adj.)- An unshrunk, off-the-cow weight adjusted to 205 days of age and to a mature dam age equivalent.
- E** Weaning Weight Ratio (W. Ratio)- The weaning weight of the individual relative to its contemporary group.
- F** Weaning Contemporaries (W. Conts)- The number of individuals in the weaning contemporary group.

-Over-

## Performance Chart (cont'd)

- G** Adjusted Yearling Weight (Y. Adj.)- An unshrunk weight adjusted to 365 days of age.
- H** Yearling Weight Ratio ( Y. Ratio)- The yearling weight of the individual relative to its contemporary group.
- I** Yearling Contemporaries (Y. ConTs)- The number of individuals in the yearling contemporary group.
- J** Scrotal- The scrotal measurement of the individual in centimeters (cm)
- K** Mature Weight (Mat. Wt.)- N/A
- L** Body Condition Score (BCS)- A score on a scale of 1 to 9, reflecting the amount of fat reserves in a cow's body where 1= very thin and 9= extremely fat.

## 4 Progeny Averages Chart

Indiv.- Individual

Sire- Father of the individual

Dam- Mother of the individual

M.G. Sire- Maternal grand sire (dam's father)

M.G. Dam- Maternal grand dam (dam's mother)

Contemporary Group- A group of cattle that are of the same breed and sex and have been raised in the same management group (same location on the same feed and pasture). Contemporary groups should include as many cattle as can be accurately compared.

- A** Most Probable Producing Ability (MPPA)- An estimate of a cow's future productivity for a trait (such as progeny weaning weight ratio) based on her past productivity. For example, a cow's MPPA for weaning ratio is calculated from the cow's average progeny weaning ratio, the number of her progeny with weaning records, and the repeatability of weaning weight.
- B** Birth Groups (B. Grps)- Total number of birth contemporary groups.
- C** Birth Progeny (B. Prog.)- Total number of progeny recorded with birth information.
- D** Birth Ratio (B. Ratio)- The average birth ratio for the progeny recorded to the individual.
- E** Weaning Groups (W. Grps)- Total number of weaning contemporary groups.
- F** Weaning Progeny (W. Prog.)- Total number of progeny recorded with weaning information.
- G** Weaning Ratio (W. Ratio)- The average weaning ratio for the progeny recorded to the individual.
- H** Yearling Groups (Y. Grps)- Total number of yearling contemporary groups.
- I** Yearling Progeny (Y. Prog.)- Total number of progeny recorded with yearling information.
- J** Yearling Ratio (Y. Ratio)- The average yearling ratio for the progeny recorded to the individual.

## 5 Breeding & Ownership Information

- A** **Breeding Service Information-**  
If the animal is sold bred or exposed, the information is listed here
  - Sire - the registration number of the sire
  - Mating (Mtg.)- the Mating code is listed here
    - Artificial Insemination (AI)
    - Natural Service
  - Pasture Exposure Dates- If the animal was bred naturally, these dates list when the animal was pasture exposed to a bull
- B** **Seller:** Lists the name of the seller.
- C** **Multi-owned-**  
If there is more than one owner of the animal, the total number of owners is listed here. Each owner receives a registration certificate with their name and the % that they own.