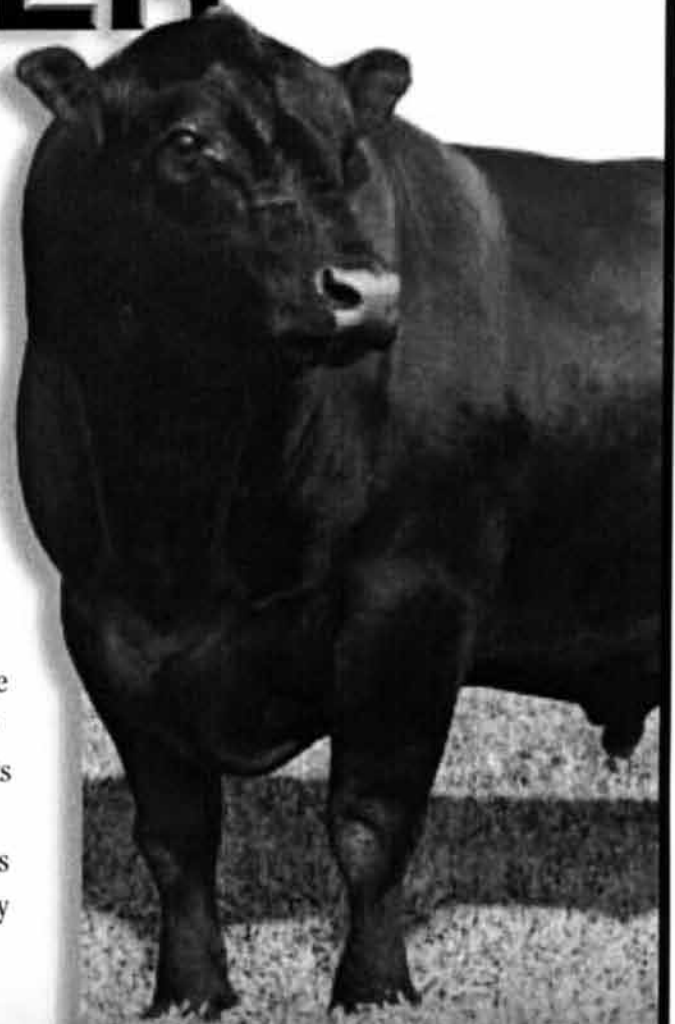


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*Iowa State University Data
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BULL DATA

**SOUTHWEST VIRGINIA ANGUS ASSOCIATION
SOUTHWEST VIRGINIA'S FINEST ANGUS SALE
SATURDAY, DECEMBER 10, 2011 • 12 NOON
WASHINGTON COUNTY FAIRGROUNDS • ABINGDON, VA**

PERFORMANCE RECORDS

Expected Progeny Differences (EPD)

An EPD is an estimate of the genetic value of an animal as a parent. Specifically, EPD's predict the difference in performance of the future offspring of a parent, compared to the future offspring from another parent in the same breed. EPD values may only be directly compared between animals within a particular breed. EPD values on bulls are found in the catalog.

Birth weight (BW) Predicts ability to transmit birth weight; measured in pounds. Higher EPD's indicate heavier birth weights.

Weaning Weight (WW) Predictor of bull's ability to transmit weaning growth to his progeny—Expressed in pounds.

Maternal Milk (MM) Predictor of bull's genetic ability to transmit milk and maternal ability to his daughters. EPD expressed as additional pounds of calf weaned by the daughters due to milk.

Yearling Weight (YW) Predictor of bull's ability to transmit pre and post-weaning growth to his progeny---Expressed in pounds.

Individual Performance-----Found in catalog

Birth Weight (BW) Bull's actual birth weight and within herd ratio.

Weaning Weight (WW) Bull's 205-day weaning weight adjusted for age of dam and within herd ratio.

Yearling Weight (YW) Adjusted 365-day weight calculated from off-test weight and adjusted for age of dam. Ratio relative to all bulls in test group.

Test ADG Cumulative average daily gain for entire test period. Ratio relative to all bulls in test group.

Frame Score-----Found on extra sheet

Bulls were measured at completion of test on 11-11-11

Scrotal Circumference (SC) actual measure in centimeters off test The table may help in evaluating this measure of breeding soundness. Bulls were measured 11-11-11

SCROTAL CIRCUMFERENCE (cm) BY AGE

AGE	VERY GOOD	GOOD	FAIR	POOR
12-14 months	>34 cm.	30-34	<30	<30
15-20 months	>36 cm.	31-36	<31	<31
21-30 months	>38 cm.	32-38	<32	<32
Over 31 months	>39 cm.	34-39	<34	<34

Muscle Score (M) Score of 1 to 5 where 1 is very thin muscled and 5 is very thick muscled, but not double muscled. Optimum for most programs is 3, though different programs may require different degrees of muscling.

Soundness Score (S) Scale of 1 to 5 where 1 indicates extreme slope to shoulder set to legs and droop rump, and where 5 indicates very straight shoulders and legs with stiff pasterns and restricted gait. Optimum soundness score is 3.

Type Score (TS) VDAC graders evaluated the bulls on 11-11-11 and used a confirmation score of 10 – 17.

ULTRA SOUND DATA

Ultrasound images were collected as a part of the test procedures. Images were sent to the Centralized Ultrasound Processing Laboratory in Ames, Iowa, for measurement determination. The centralized ultrasound processing laboratory utilizes experienced, highly skilled interpretation technicians to enhance accuracy and consistency of measurement results.

Fat Thickness (FT) Measurement presented is the actual 12-13th rib fat thickness, in inches, on data scans were taken. The fat thickness measurement is useful as an objective measurement of condition differences between bulls. Research indicates that fat thickness can be measured very accurately with ultrasound 67% of the time. The ultrasound measurement should be within .10 in. of the carcass measurement.

Ribeye Area (REA) Ribeye area measured in square inches adjusted to a constant age of 365 days. Ribeye area has a positive relationship with carcass retail product. Ribeye area measurements with ultrasound should be within 1.0 square inch of the carcass measurement 67% of the time.

Percent Intra-muscular Fat (%IMF) Objective estimate of the percentage of intra-muscular fat within the ribeye muscle (marbling) adjusted to 365 days. The relationship between ultrasound predicted intramuscular fat and the USDA Quality Grading System is presented in the following table:

% Intra-muscular Fat <2.30	USDA QG Standard	Degree of Marbling Practically Devoid/Traces
2.30 – 3.00	Select -	Slight
3.10 – 3.99	Select +	Slight
4.00 – 5.79	Choice -	Small
5.80 - 7.69	Choice *	Modest
7.70 – 9.89	Choice +	Moderate
9.90 – 12.10	Prime	Sl. Abundant
> 12.10		Mod. Abundant

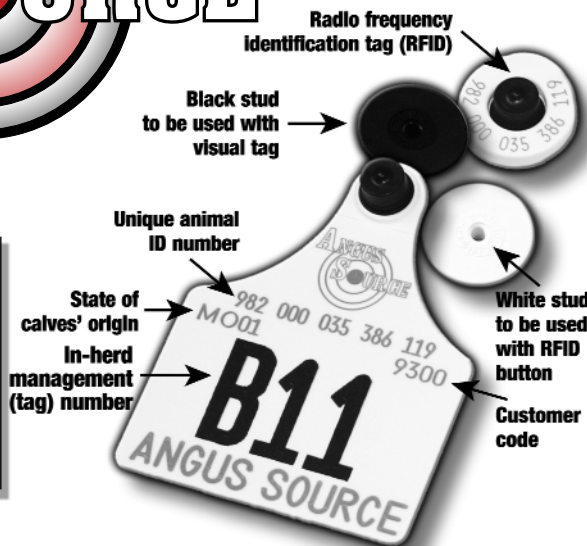
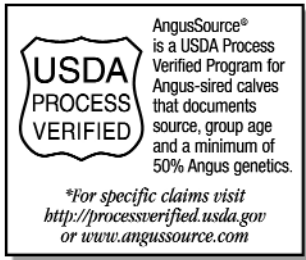
Research has indicated that bulls will have approximately 1.5 – 2.5 % less intra-muscular fat than their steer mates when fed to a constant age. The ultrasound estimate of percent intra-muscular fat should be within 1.0% of the actual 67% of the time.

LOT	FS	M	S	TS	SC	Rib Fat	Rump Fat	RE	%IM	\$B
1	6.1	3	3	12	31.0	.33	.45	13.9	4.45	19.31
2	5.5	2	2	12	35.5	.31	.34	12.8	4.84	19.14
3	5.8	3	3	14	38.0	.38	.48	11.7	4.80	41.86
4	5.8	3	3	14	36.0	.23	.23	13.9	2.66	38.11
5	5.8	3	2	13	34.5	.45	.60	11.5	4.24	
6	5.8	3	3	15	38.0	.40	.46	14.6	4.83	48.98
7	6.2	4	3	15	40.0	.47	.66	15.2	5.64	
8	5.5	4	3	14	37.0	.47	.44	15.5	5.15	
9	5.5	3	3	14	36.5	.27	.29	14.0	3.48	
10	6.8	4	3	14	41.0	.38	.43	13.4	3.27	22.14
11	6.5	3	3	14	37.5	.36	.37	14.8	5.93	58.36
12	6.4	2	3	14	33.0	.44	.37	13.2	6.26	57.16
13	4.8	4	4	14	33.0	.28	.32	13.4	3.02	46.68
14	6.0	2	3	13	38.5	.46	.42	13.4	6.94	56.06
15	6.4	2	3	14	37.0	.53	.48	14.5	4.97	42.57
16	5.9	4	3	14	37.0	.36	.34	13.8	4.44	40.61
17	6.0	3	2	13	39.0	.25	.31	13.0	4.01	39.99
18	5.5	4	4	13	35.0	.28	.35	13.8	4.94	53.81
19	5.5	3	3	14	38.5	.27	.26	14.3	6.07	58.14
20	6.0	4	3	15	43.0	.56	.62	14.2	4.61	42.06
21	5.6	3	2	12	34.0	.15	.20	13.8	2.78	44.48
22	6.0	2	2	12	37.0	.30	.32	12.9	3.96	45.88
23	6.1	4	3	14	37.0	.24	.34	14.0	4.90	59.66
24	6.5	2	3	13	39.0	.35	.60	13.3	6.47	60.55
25	5.7	3	4	14	37.5	.75	.66	13.4	6.99	64.46
26	6.9	2	3	14	38.0	.36	.51	13.6	4.91	49.09
27	6.7	4	3	15	37.0	.42	.40	13.6	5.00	64.96
28	6.7	3	3	15	41.0	.55	.33	13.1	5.09	45.23
29	6.1	3	3	14	37.0	.51	.48	13.1	5.75	
30	6.2	3	3	13	36.0	.25	.27	12.6	2.75	47.90
31	5.2	4	3	16	34.5	.41	.54	13.0	3.57	53.10
32	5.9	2	3	13	35.5	.28	.19	11.6	2.30	37.45
33	5.6	3	3	13	34.0	.29	.45	11.2	3.70	61.36
34	5.8	3	3	15	35.5	.44	.49	11.8	4.09	41.39
35	5.5	3	3	14	39.5	.44	.47	11.8	6.77	55.18
36	5.5	3	3	14	40.5	.41	.54	10.4	6.74	48.36
37	6.7	2	3	13	36.0	.39	.39	12.6	3.47	44.95
38	5.2	4	3	14	36.5	.33	.40	13.5	5.34	49.78
39	5.9	4	3	14	32.5	.32	.31	10.4	2.96	30.98
40	6.4	4	3	14	34.5	.34	.28	12.4	4.14	44.28

Lots 6-9 contain the actual raw ultrasound data, they have not been adjusted to a common age for comparison, as have the other lots.



Now **Genetics**, **Source** and **Group Age** can all be documented with **ONE Tag**.



AngusSource® enables producers to convey the valuable genetic, source and group age information about their Angus-sired feeder calves and replacement heifers to prospective buyers.

Cattle must be sired by a registered and properly transferred Angus bull, enrolled by the ranch of origin and have known group age to qualify for the AngusSource® Program.

Enrolling in AngusSource®

1. Become a Producer Participant

To be eligible to supply cattle to the AngusSource® program, producers must have Angus-sired cattle that originate on their operation, use registered Angus bulls, have management practices that allow for the identification of cattle that are Angus-sired, and keep calving records that document the birth date of the oldest calf

- Complete the AngusSource® Producer Participant Enrollment Form and Agreement. Download forms at www.angussource.com or request by calling AngusSource®.
- **These forms must be completed and returned via fax or mail to AngusSource®.**

2. Enroll Calves/Order Tags

Calves must be enrolled by the ranch of origin, sired by a registered Angus bull and have known group age. Visual tags are \$1/tag, matched-pair sets (radio frequency identification (RFID) button plus matching visual tag) \$3.25/set. Allflex tag applicator is \$17.50 (must use the red Allflex applicator to apply these tags).

- Enroll calves by calling AngusSource®.
- Provide enrollment information to AngusSource® and submit any required records.
- Choose a tag option. For \$1/head, receive a full-size laser-ink printed visual ear tag with customized in-herd management number. A RFID-matched pair (visual tag and an electronic tag) is available for \$3.25/head.
- Tags will be delivered 7-10 business days after enrollment is processed. Tag only those calves enrolled in AngusSource®.

3. Print/Customize Documents

- AngusSource® Documents are available for each set of enrolled cattle. Document includes the genetics, source and group-age.
- Access and customize/print documents online, at www.angussource.com or by calling AngusSource®.
- Customize the AngusSource® Document for feeder cattle or replacement females. If marketing information is included, the document will be activated on the AngusSource® Web site for up to 90 days prior to sale date and will be e-mailed to nearly 600 potential buyers.
- Print document to present to potential buyers and livestock auction markets.
- Buyers may request document by contacting AAA if not provided at the time of purchase.

For more information, contact **AngusSource®** at 816-383-5100 or angussource@angus.org or visit www.angussource.com