Volume 4, Issue 10

October 2007

Mississippi Beef Cattle Improvement Association

Mississippi Beef Cattle Improvement Association—Productivity and Quality

Upcoming events:

- October 23—Hinds Community College Bull Test Begins, Raymond, MS
- October 25-27—MSU Artificial Insemination School, Mississippi State, MS
- October 30—Gulf Coast Beef Education Alliance, Beef Nutrition Series - Commodity Feeds in Detail, 6:00 P.M. to 8:00 P.M., distance education sites throughout MS, AL, LA and FL
- **2007 Mississippi BCIA Fall Bull Sale**, 12:00 noon, Hinds Community College Bull Sale Facility, Raymond, MS
- November 27—Gulf Coast Beef Education Alliance, Beef Nutrition Series - Bull and Heifer Development and Computer Decision Tools, 6:00 P.M. to 8:00 P.M., distance education sites throughout MS, AL, LA and FL

Inside this issue:

BCIA to Market Quality Bulls on November 8

BCIA Fall Bull Sale Information

Thursday, November 8, 2007
12:00 Noon
Hinds Community College Bull Sale Facility
Raymond, Mississippi

Interactive video bidding sites
Panola County Extension office, Batesville
North MS R&E Center, Verona

Angus · Brangus · Charolais
Hereford · Balancer

Mississippi BCIA is once again proud to offer a tremendous set of performance backed bulls in our 2007 Fall Bull Sale. All bulls are screened for structural problems, disposition, and performance and are guaranteed as breeders. These bulls have passed breeding soundness examinations and met minimum growth and scrotal circumference requirements as well.

Bulls will be available for viewing starting on the afternoon of November 7. For more information or to request a catalog, contact Jane Parish at (662) 325-7466 or go to *http://msucares.com/livestock/beef/mbcia/bcia_bullsale.html*. Catalogs will be available in mid-October.

The objective of the Mississippi BCIA Bull Sale program is to encourage production and identification of genetically superior bulls by purebred breeders and to encourage the purchase and use of these bulls by commercial producers.

BCIA 2007 Fall Bull Sale Consignors

- ►Carson Farms
- ►Ingram Cattle Co., Inc.
- ►Jones Angus Ranch
- ►Kiani Angus
- ►Loveless Homeplace Angus
- ►Mississippi Agricultural and Forestry Experiment Station
- ►Monogram Farms
- ►Sedgewood Plantation
- ►Smith Farms
- ►Smith Gelbvieh Farms
- ►Thames Angus Farm
- ►Unity Creek Farm
- ►Wes Parker Angus
- ►Woods Angus

Spring 2008 Bull Sale Nomination Information Now Online

Mississippi BCIA 2008 Spring Bull Sale

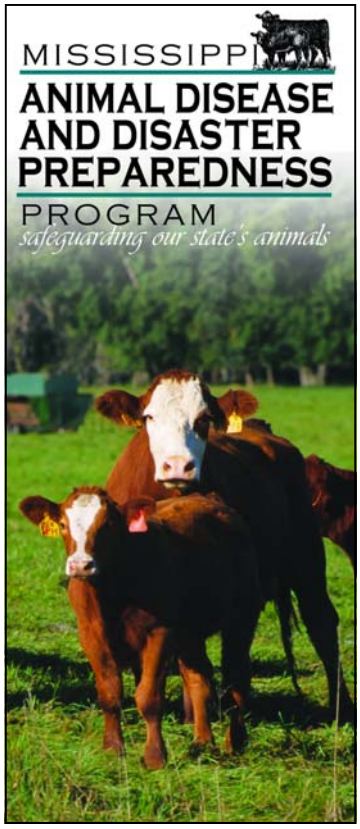
Nomination Forms and Rules Website:
msucares.com/livestock/beef/mbcia/bcia_bullsale.html

Nomination Deadline:
Thursday, January 10, 2008

Sale Date:
Thursday, March 6, 2008

Make plans now for the Spring 2008 Sale

Mississippi Progress on Disease and Disaster Preparedness



The Mississippi Animal Disease and Disaster Preparedness Program is designed to make relief and recovery from disease outbreak or natural disaster more efficient for livestock producers in Mississippi. While the concept is sound and registration is free, initial enrollment in the program lagged. Earlier this year, a challenge was issued to stimulate increased participation. Portable livestock scales were awarded to two counties; one each to the county with the largest numerical and percentage increase in enrollment from September 2006 to September 2007.

Top ten counties for numerical increase:

1. Harrison
2. Hinds
3. Rankin
4. Forrest
5. Madison
6. Lee
7. Jackson
8. Jones
9. DeSoto
10. Marion

Top ten counties for percentage increase:

1. DeSoto
2. Harrison
3. Hancock
4. Bolivar
5. Lauderdale
6. Webster
7. Leflore
8. Adams
9. Forrest
10. Choctaw

Overall state increases in enrollment for the one year period exceeded expectations (from **981** to **2,148).** However, this still only represents about **6%** of the livestock operations in Mississippi. This is a good start, but for the program to be successful in safeguarding the state's livestock and livestock producers in the event of a manmade or natural disaster, more cooperation is required. Please consider enrolling in the program for the sake of your family, your community, and your state.

Harrison and DeSoto counties received their TruTest portable livestock scales last month. These scales are designed to fit in the bottom of an alley, are lightweight, and are easy to hook-up and use. So, please make use of them to help make management decisions.

For more information on how to enroll and to obtain an enrollment form, contact your local extension office, area livestock agent, state livestock specialist, or the state board of animal health.

Replacement Heifer Selection at Weaning

Now is the time to consider selecting replacement females from the weaned calf crop. One of the first decisions to be made is whether it will be more economical to develop replacement heifers or to sell all the weaned heifers and buy bred heifers or cows before the next calving season. If only a few replacements are needed and there are limited resources for the cow herd, it may be more beneficial to consider custom development or purchasing bred females. Additionally, if terminal type sires were used, it would be a wise decision to sell the heifers from those sires and keep or buy more maternal females.

Other important considerations in replacement female selection are age, weight, and frame size. It is often more beneficial to select the oldest and heaviest heifers for replacements as they will be more likely to reach the desired weight and go through puberty before the breeding season begins. However, only selecting the largest heifers can increase the mature cow herd size. Care should be taken to retain the females that will adjust the cow size up or down as desired.

Performance records (and EPDs if available) from the dams and sires of these heifers should also be used in selection. Consider retaining heifers from cows that have weaned the most pounds of calf with the least input expense. This is yet another example of how keeping accurate records can result in less expense and more profit. Feet and leg structure should also weigh heavy in selection criteria as these heifers will be expected to remain a productive part of the cow herd for many years.

Finally, remember to keep about 50% more heifers than will be required for replacements. This will leave room to cull at breeding, pregnancy check, and at calving. Look for more information on heifer development in the coming issues of this newsletter, or contact the Mississippi State University Extension Service for more detailed selection criteria and a plan for development to breeding.

Mississippi BCIA Fall 2007 Bull Sale Offering Summary

Mississippi BCIA 2007 Fall Bull Sale
Thursday, November 8, 2007, 12:00 Noon, Hinds CC, Raymond, MS

- Carson Farms
- Loveless Homeplace Angus
- Smith Farms
- Wes Parker Angus
- Ingram Cattle Co., Inc.
- MAFES
- Smith Gelbvieh Farms
- Woods Angus
- Jones Angus Ranch
- Monogram Farms
- Thames Angus Farm
- Kiani Angus
- Sedgewood Plantation
- Unity Creek Farm

Lot	Birth Date	Bull Name	Reg. #	Sire	BW	Adj WW	WW Ratio	Adj YW	YW Ratio	EPDs BW	EPDs WW	EPDs YW	EPDs MILK
				ANGUS									
1	2/26/2006	LHA IDEAL 337S of 2B23	15448347	Rito 2B23 of Rita 9319 BW	99	766	105	1185	100	5.5	53	93	23
2	9/30/2005	Monogram Traveler 8005	15384134	S A V 8180 Traveler 004	86	701	110	1170	106	5.2	51	93	20
3	11/2/2005	Monogram Appeal 5645	15281663	Monogram Appeal 5683	80	629	99	1119	100	4.2	44	83	17
4	2/18/2006	Monogram Smoker 2026	15438112	Monogram Gunsmoke 5682	90	680	107	1269	105	3.2	45	84	18
5	1/8/2006	Monogram 568 Appeal 2106	15438113	Monogram Appeal 5683	76	726	114	1257	104	2.4	44	80	19
6	2/5/2006	Monogram 522 Appeal 2296	15438115	Monogram Appeal 5221	94	732	115	1319	109	5.4	49	87	14
7	11/16/2005	Monogram Appeal 5085	15381658	Monogram Appeal 5683	80	617	97	1047	100	3.4	38	79	15
8	10/14/2006	KA Performer 7556	15742530	Rito 2V1 of 2536 1407	78	831	110	1489	100	3.7	57	98	20
9	1/1/2006	KA Old School 3686	15365793	KA Equator 7553	88	850	114	1430	100	6.1	50	81	18
10	9/5/2005	Ingrams R Time 338 R398	15283487	Hyline Right Time 338	84	707	108	1432	105	5.9	53	88	24
11	9/7/2005	Ingrams Rito 1C1 R405	15283510	Rito 1C1 of 9F30 65D	71	668	102	1415	104	2.4	45	84	24
12	9/8/2005	Ingrams Rito 025 R418	15283529	Rito 025 of 7J20 RDA	78	720	110	1280	94	2.7	46	77	22
13	9/12/2005	Ingrams R Time 338 R442	15283558	Hyline Right Time 338	78	714	109	1370	100	3.6	54	90	28
14	10/3/2005	Ingrams Rito 2B98 R521	15283602	Rito 2B98 of Rita 6K20 BW	78	609	93	1319	97	3.7	42	71	26
15	10/13/2005	Ingrams Rito 1C1 R541	15283624	Rito 1C1 of 9F30 65D	72	676	103	1297	95	3.0	48	90	23
16	9/5/2006	MSU New Design S166	+15595317	Bon View New Design 1407	79	638	100	1152	99	1.8	45	81	26
17	9/11/2006	MSU New Design S182	+15595324	Bon View New Design 1407	76	693	108	1283	110	1.2	39	83	25
21	11/11/2005	TAF Destination 210B	15396051	B/R Destination 727-928	65	741	122	1077	116	4.2	45	84	24
22	12/3/2005	TAF Destination 505A	15296056	B/R Destination 727-928	69	583	96	959	100	2.3	44	89	21
23	10/3/2005	TAF New Design 9150 6375	15721382	B/R New Design 323-9150	63	570	98	944	100	-1.1	30	62	28
24	10/20/2005	TAF Authority 6385	15647337	G A R 65R Authority	71	570	101	948	101	1.8	44	82	27
25	11/3/2005	W A Duration 2571	15399552	Grandview Womack Duration	78	718	105	1214	110	3.0	33	65	14
26	11/4/2005	W A Tradition 2579	+15399534	Sitz Tradition RLS 8702	75	711	101	1161	98	4.5	52	89	22
27	10/4/2005	W A New Design 2561	15399556	W A New Design 2290	79	708	104	1106	100	3.9	41	78	18
28	9/30/2005	W A New Design 2563	15399548	W A New Design 2290	76	759	111	1100	99	3.4	44	77	21
29	11/6/2005	W A Tradition 2590	15359335	Sitz Tradition RLS 8702	74	736	104	1288	108	4.3	54	97	22
30	9/30/2005	Sedgewood War Alliance L206	15374773	WAR Alliance 9126 6006	75	746	111	114	100	2.7	59	104	34
31	10/1/2005	Sedgewood Advantage L208	15379467	TC Advantage	60	680	101	1144	106	0.2	41	82	26
32	10/18/2005	Sedgewood Advantage L236	15374775	TC Advantage	71	674	100	1154	107	2.0	38	81	23
34	9/19/2006	J A R Traveler 004 H78	15705216	S A V 8180 Traveler 004	73	814	108	1206	106	4.1	54	88	14
35	9/29/2006	J A R Expectation HE18	15705226	G A R Expectation 4915	65	826	109	1221	107	3.2	49	81	22
36	9/2/2005	Carson Precision 528	15416897	G A R Precision 1680	77	589	100	1058	101	2.7	31	66	22
37	9/7/2005	Carson EXT 532	15428957	N Bar Emulation EXT	70	561	95	956	91	2.2	37	64	19
38	10/9/2005	Carson New Design 565	15428977	Bon View New Design 1407	78	569	96	1039	99	1.5	35	69	29
39	10/23/2005	Carson 8180 Sitz Trav 571	15428978	Sitz Traveler 8180	81	559	95	1052	100	2.8	32	65	21
44	9/1/2006	WP 6E95 of EXT DSIGN E95 2K6	15544707	Rito 2K6 of 2536 Rito 3X25	70	567	107	989	110	2.8	44	83	28
45	10/21/2006	Parker Frontier 095-68	15492750	B/R New Frontier 095	60	738	98	972	92	1.6	41	77	25
				BRANGUS									
40	9/12/2005	HB MR WATASH 36/6R	R10041078	MC WATASH 98L24	64	627	102	1192	100	1.4	16.9	31.2	12.9
41	4/9/2006	HB MR LEAD GUN 295S	R10049452	LEAD GUN OF BRINKS 222K14	77	700	105	1064	106	1.3	37.5	60.0	10.3
42	4/17/2006	HB MR LEAD GUN 99S2	R10050271	MR 4C 936N	81	753	113	1154	115	3.0	47.4	74.1	6.9
43	4/28/2006	HB MR LEAD GUN 99S3	R10050273	MR 4C 936N	67	619	93	1132	113	1.2	39.7	76.9	14.7
				CHAROLAIS									
18	1/16/2006	MSU Southern Spur S025	M714871	LT Western Spur 2061 PLD	98	757	113	1299	107	0.3	28	44	4
19	1/20/2006	MSU Southern Spur S035	M714872	LT Western Spur 2061 PLD	96	697	104	1204	99	-0.6	22	38	6
				HEREFORD									
33	3/14/2005	D L1 DOMINO 505	42725148	DH L1 DOMINO 207	85	600	106	1100	109	3.1	33	67	23
				BALANCER									
20	3/17/2006	MRGF 2S	AMGV1001069	JBOB 2522J	74	625	100	998	100	0.6	38	75	21

Mississippi Beef Cattle Improvement Association—Productivity and Quality

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Send questions or comments to Jane Parish or Justin Rhinehart, Extension Beef Specialists, Mississippi State University Extension Service

Visit MBCIA online at http://msucares.com/livestock/beef/mbcia/

MBCIA Membership Application

Name:_____

Address:_____

City:_____

County:_____ State:_____ Zip:_____

Phone:_____ Email:_____

(Check one) Seedstock:____ Commercial:____

Cattle breed(s):_____

Completed applications and $5 annual dues payable to Mississippi BCIA should be mailed to:

Mississippi Beef Cattle Improvement Association
Jane Parish, Extension Beef Specialist
Box 9815, Mississippi State, MS 39762

BCIA Genetic Profit Tips — October 2007

Performance Tradeoffs

Beef producers are constantly challenged by the question of how much relative emphasis to put on each trait in a selection program. Selection for several traits at a time will slow progress for each individual trait but is the most efficient way to improve a complex breeding objective. To make the problem more difficult, some traits are genetically antagonistic to one another. If one trait is improved, then another may deteriorate. Notable genetic antagonisms include:

1. Milk production and body weight versus maintenance requirements. Selection for increased productivity through increased milk production or growth rate results in increased proportions of metabolically active tissues that must be maintained. This requires additional feed energy. Thus, gains from selection for additional productivity must be more than sufficient to offset the correlated increases in feed cost.

2. Growth rate versus calving ease. Selection for increased growth rate generally results in increased size at all ages, including birth. Particularly in temperate regions, birth weight is a major determinant of calving ease. Thus, selection for increased growth rate may also result in deterioration of calving ease.

3. Lean yield versus carcass quality. Improvement in lean yield, as indicated by USDA Yield Grade, results from reducing waste fat in the carcass. However, USDA Quality Grade is improved through increasing intramuscular fat deposition. Selection for reduced fat deposition will improve carcass value by increasing lean yield but may simultaneously reduce marbling.

4. Leanness versus fertility. Increased carcass leanness is desired in many situations. However, daughters of sires selected for reduced fat trim of steer progeny may reach puberty later, require more services per conception, and have a longer first gestation, resulting in a heavier calf at birth being born with greater difficulty.

It is important to note that these genetic antagonisms are not absolute. It is possible, for example, to identify sires with desirable genetic merit for both carcass quality and lean yield. However, identifying sires with favorable EPDs for genetically antagonistic traits will be challenging to the breeder.

Selection for more than one trait at a time is optimally implemented using selection index methods. When EPDs are available for all economically relevant traits, calculating the sum of the products of EPDs weighted by their relative economic values provides a single straightforward criterion for evaluating candidates for selection.

Source: Beef Improvement Federation. 2002. Guidelines for Uniform Beef Improvement Programs, 8th ed.