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WINTER 2016 NEWSLETTER

As we explained in our SUMMER 2015 NEWSLETTER, 2016 is the **Spitzer Ranch and Hunts H+ Brangus Professional Cattleman's Performance Tested Brangus Bull Sale**. This will be the last bull sale in South Carolina for the Spitzer Family. The Hunt Family will continue with our tradition of a bull sale the last Saturday in February, however, the 2016 sale will be held in Calhoun, GA. They have our Mail List and you will continue to receive information directly from them about future sales.

SPITZER RANCH BULL DEVELOPMENT 2016

Purchase the average bull from those on the performance report on page 7 and his comparison to the Non-Parent Brangus Breed Average (BBA) would be impressive. While it would be very unlikely to have a bull that had the average EPDs for the entire group of bulls, assume there was such a bull. Mr. Average for these sale bulls then ranks in the Top 50% for CED, Top 35% for BW, Top 25% for both WW and YW, Top 10% for both MK and TM, Top 20% for SC, Top 45% for REA and Top 35% for %IMF.

NOTE: We are pleased Brangus now runs a Genetic Evaluation and updated EPDs four times per year. EPDs in this report are for Winter 2015 run. However, EPDs for Spring 2016 will be available for our catalog and they will be the most accurate. Make tentative selections based on what you see here, but please check the catalog.

All of you who have followed our genetic program over the past 34 years know how hard we work to find those AI Sires (or raise our own) that bend the growth curve such that they are born small, but mash down pretty hard on the scales at weaning and yearling weights. Most in our industry call them CURVE BENDERS and we are sure proud to have our customers tell us that they predictably do just that.

In fact the average BW EPD for our 30 bulls is 0.5 pounds less than BBA and **63% of SR/H+ bulls have lower BW EPDs** than BBA. That's pretty impressive, but those same bulls also have YW EPDs averaging 12 pounds heavier than BBA. A full **80% of SR/H+ bulls have heavier YW EPDs** than BBA. How's that for real world positive **Curve Benders!**

Furthermore bulls that earn the "Calving Ease (CE) Flag" in the Spitzer Ranch program allow you to "sleep easy" all night during calving season. In this group of bulls, 16 of the 30 have birth weights and BW

EPDs that allow us to designate them with the "CE FLAG" in their data block in the sale catalog. While there are almost no Brangus bulls that sire calves with any calving difficulties in mature cows these CE bulls have the genetics to all but guarantee first-calf-heifers a really easy time at calving.

While we are genuinely proud of the reputation we have earned for producing those sought after curve bender bulls, don't ever think we would ignore the rest of the production picture. If you need bulls to service your cow herd that have the bred-in genetics to sire calves with **lower birth weights** while at the same time **increasing growth** to weaning and yearling ages; if you need to produce replacement females with **more milk** and **better maternal ability**; if you need to add **muscle** and produce those reputation calves with a **high percentage of choice** grading carcasses; then you need to give serious consideration to coming to the sale for your next herd sire.

OUR LEGACY: the Land, the Family, the Cattle (NCBA)

Brangus crossbred cows are just the ticket to increased heterosis and all the advantages hybrid vigor brings to your cow herd. This set of bulls gives you the opportunity to pick through a genetic selection program that compliments the heterosis that cannot be ignored if your desire is more profit.

These bulls have now completed our 168-Day forage-based growth and development scheme. Overall bulls in both groups 2015-1 and 2015-2 finished our program with a 3.14 pound average daily gain (ADG) at an average of 370 days-of-age with a weight per day of age (WDA) of 3.02.

This may be our leanest set of bulls ever as they averaged a slim and trim 2/10" FAT with an ultrasound scan rib eye area (REA) of 12.4 sq. in. and a solid 3.02% intramuscular fat (%IMF). In perspective, research would say that if these bulls had been steers, they would have 1.5% more IMF and probably more as they would have been sent to the packing plant at about 1/2" FAT. Since the %IMF required to be a CHOICE graded carcass is 4%, these bulls (had they been steers) would have graded really well, mostly CHOICE and PREMIUM CHOICE (CAB).

Because of how we develop bulls in our program with calves coming straight off the cow with no warm-up period and no creep feed they are grown and not fattened. We have grass under their feet at most all times beginning with crabgrass and "winter mix" of Rye/Ryegrass/Radish as soon as we get it up and growing. We use a home-mixed supplement consisting of soy hulls and corn gluten feed. We have learned over 34 years that's the way to provide you with sound, athletic bulls with a long, successful productive life in the breeding pasture. You don't need to invest dollars to see fat bulls fall apart.

MARBLING VERSUS THOSE GREAT MATERNAL TRAITS

(EDITORS NOTE: This article by a long-time friend, Dr. Larry Corah, Professor Emeritus, Kansas State University is reprinted by permission from FEEDSTUFFS November 16, 2015 Volume: 87 Issue: 44 Page: 16. It is an exceptionally good article on a very important subject.)

There are many myths that affect animal agriculture. One that often comes up is that you can't expect to maintain an efficient, functional herd of mother cows and also select for carcass traits such as marbling. Let's review what is known and what research shows.

The most comprehensive answers come from an excellent literature review by Virginia Tech researchers Smith and Greiner (2013) titled "Selection for Marbling & the Impact on Maternal Traits." Since maternal function involves many aspects, their review looked at the relationship of marbling to numerous reproductive parameters, including:

- * Age at puberty and scrotal circumference. It is well documented that bulls with larger scrotal circumferences sire earlier-maturing daughters. The data of Latimer et al. (1982), along with a recent analysis of the "Angus Sire Summary," suggest that producers can select for marbling with no positive or negative effect on age at puberty.

- * Heifer pregnancy and age at first calving. Obviously, a key economic driver for cow/calf producers is pregnancy rate, starting with the first-calf heifer conceiving early in the breeding season.

Bergfeld et al. (1995) first reported that heifer progeny of high-marbling Angus bulls did not differ in age from heifers sired by other bulls at first calving. More recent work showed somewhat

conflicting results. Specific to heifer pregnancy rates, Evans et al. (2004), as well as a recent analysis of the American Angus Assn. database, suggests no correlation between marbling and heifer pregnancy rates.

- * Birth weight and calving ease. Because of the impact on labor commitment, calving ease has always been a high priority for cow/calf producers. Through genetic selection, the beef industry has made great progress in improving growth while reducing the incidence of calving difficulty — a true success story.

So, is there any relationship between calving ease and selection for carcass traits like marbling? Currently, several breed associations report three expected progeny differences (EPDs) related to calving difficulty: birth weight, direct calving ease and maternal calving ease. Evaluating the database suggests no linkage between any of these EPDs and selection for marbling.

- * Maternal milk. Because milking ability is a key factor linked to weaning weights but also is a key driver of feed requirements, matching milk levels to feed resources is an important consideration for cow/calf operators.

Gosey (1999) reported that breeds typically recognized for high milk production tend to have greater marbling scores. The recent Smith and Greiner evaluation of the Angus database suggests a slightly positive correlation between marbling and maternal milk EPDs, which supports a number of other studies reported in the literature.

- * Calving interval, stay-ability and longevity. Calving interval and longevity are often major concerns for cattle producers as they recognize the cost associated with developing replacement heifers.

Some breeds, such as Red Angus and Simmental, have published EPDs for stay-ability for a number of years. Limited research data exist on any relationship between carcass traits and longevity, but the authors of the Virginia Tech white paper concluded that no negative impact on calving interval would be expected when selecting for marbling levels.

* Docility. Cattle producers clearly understand the negative impact poor cattle disposition can have on worker safety, repair costs and animal productivity. Recent data by numerous scientists have shown that poor disposition in feedlot cattle correlates to reduced daily gains and reduced carcass marbling levels. These studies also reveal that disposition is a fairly heritable trait, meaning that selection can eliminate problems.

Although no extensive genetic studies exist, the white paper authors noted a favorable, positive relationship between marbling EPDs and docility EPDs in the Angus breed.

* Mature cow size. With the continued focus on selecting for growth, cow size has become a common point of discussion among cattle producers. Although there are no definitive studies on relationships between marbling levels in sires and cow size, Smith and Greiner suggested, after analyzing the Angus database that no significant relationship exists.

“This well-written review of the literature clearly suggests that no relationship, either positive or negative, exists between selecting for carcass traits like marbling and overall cow functionality,” assures Dr. Corah.

ARE YOU BEEF QUALITY ASSURANCE (BQA) CERTIFIED?

Most beef producers we know

pretty well do all the right things the right way every time. That however, may not be adequate for today’s beef consumers - ultimately our collective bosses. We attend a rather large church in town where 99.9% have no knowledge of production agriculture. Furthermore they really don’t care. What they do seem to care about is that we raise beef in a responsible manner. For the most part they want to be assured that we provide adequate feed, clean water, appropriate care and humane treatment. Beyond that few want to know details as long as we are forthright in answering questions when they have any.

That is where BQA comes into play. “Even though you may already be doing all the right things, BQA Certification is proof that our industry is dedicated to producing beef in a responsible manner,” says Chase DeCoite, Associate Director of Beef Quality Assurance for NCBA. DeCoite went on to say, “BQA is used as the foundation of a much larger story of the beef industry. It allows our industry to tell an honest, true story of how cattle are raised, building increased demand for beef. Consumers are increasingly concerned with how animals are raised. BQA is the basis of sharing that story with consumers.”

Certainly BQA certification is one of our collective success stories with literally thousands of producers completing the formal program. However, there are still many cattle raisers who have yet to be BQA Certified. Much of the information in BQA training is old hat to many but the lessons are a great refresher and can be a good learning tool for new hands. Besides that it tells new hires how you expect your animals to be treated.

While the procedure is a little different for each state, all training

is available either in person or online. Please see the box at the end of this article for contact person in SC, NC, FL and GA or you can go to www.bqa.org, select your state and be directed to a contact.

All states have coordinators who manage training programs at various times and locations. Generally, but not always, there is a fee for the training. However, a free certification period will be sponsored by Boehringer Ingelheim Animal Health from now through spring of 2016. Contact your BIAH sales representative for more information or go to www.bi-vetmedica.com. We will all be better off when every beef producer has completed their BQA Certification.

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TCB Catawba Warrior R532	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	4.9	-.7	34	74	21	38	2.4	1.5	.86	.04	-.012
TOP % RANK	30	20	20	10	1	1	95	2	2	35	95
ACES TF Wrangler 145/8	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	1.8	2.2	23	51	15	27	1.0	.5	.20	.13	-.023
TOP % RANK	85	80	55	40	10	25	95	45	75	15	95
MC Abrams 468T22	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	4.3	-.9	35	74	15	32	3.3	.1	.78	.20	-.048
TOP % RANK	40	15	15	10	10	10	85	85	4	5	30
SR Mohican Warrior X004	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	1.9	2.8	45	81	14	36	3.3	1.2	.06	.00	-.030
TOP % RANK	85	85	3	5	15	2	85	10	90	45	90
SR Mohican Warrior Y174	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	7.5	-2.3	19	46	17	26	3.7	.7	.34	-.08	-.023
TOP % RANK	10	4	75	40	4	25	70	25	50	85	95
SR Apache Warrior Z275	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	4.7	-.6	29	58	15	29	2.4	-.1	.69	.13	-.051
TOP % RANK	35	20	35	30	10	15	95	95	10	15	20
H+ Mohican Warrior Z213	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
EPD	5.7	-1.0	19	43	18	27	2.7	.5	.49	.01	-.022
TOP % RANK	20	15	75	60	3	25	95	45	30	45	95

FEATURED SIRES FOR 2016 BULL SALE

Spitzer Ranch and Hunts H+ Brangus have a program structured around the disciplined breeding strategy of using proven sires to increase genetic consistency. Our genetic program differs from many in the Seedstock business in that we are “Bull-Centric” and build that consistency by stacking generations of high accuracy sire lines. We are constantly on-the-hunt for those low birth weight (BW) EPD bulls that still have high potential for yearling weight (YW) EPD to use in our AI program. We use YW as our selection criteria for growth as it has been shown to be the most accurate predictor of growth to both weaning and yearling age. Then by high accuracy we mean we would like an accuracy for BW EPD to be .70 or above which generally indicates enough progeny to get

YW accuracy in the .50 to .60 range. Once we find those bulls we use them hard and consistently. You will find that many of our AI sires are old/dead, but until we find a better replacement we keep them in the lineup.

TCB Catawba Warrior R532 Brangus Summit Sire! Semen Available.

We bred this bull in our program, but cash flow needs saw him sold in the belly of his dam to Spitzer Ranch Alliance Cooperator, Three Creeks Brangus. At that time we kept 1/3 of any bull we thought had potential when sold in our sale and we still own 1/3 interest along with our 2/3 partners Allen and Nicki Smith at Southern Accent Farms in FL. Interestingly R532 will breed cows this year as an eleven-year-old. A for real curve bender, this bull has been a huge success as there are currently

something over 850 sons and daughters in the Brangus Registry and literally thousands of commercial progeny in cattle herds across the USA, Australia and South America. TCB Catawba Warrior R532 ranks in the Top 20% or better for 7 EPD Traits.

Aces TF Wrangler 145/8 Brangus Summit Sire!

We were absolutely blessed to find Wrangler as a yearling calf. He was born in 1998 in the Aces Brangus program in MO. Somehow we talked Danny Fanning into letting us have 1/2 interest and we have used him AI almost every year since. Wrangler was born in 1998 and in the latest sire summary, he still ranks in the Top 10% for MK and Top 25% for TM; a cow-maker with few equals. Additionally, he still ranks in the Top 15% for IMF. He has over 320 progeny in the Brangus Registry which makes him

a highly proven and sought after bull. Wrangler was a bull with high %IMF back when nobody worried about marbling and his daughters (and granddaughters) are absolutely amazingly productive females. We have only a handful of straws of semen still in the tank and as long as it lasts we are now using it strictly for embryo production.

MC Abrams 468T22.

We have used 468T22 as an AI sire for the past several years and have been pleased with our Abrams calves. However, Abrams is now deceased and this will be the last set of calves as we can find no available semen. Another true curve bender, Abrams also excelled at increasing REA and %IMF. MC Abrams 468T22 ranks in the Top 15% or better for 7 EPD Traits.

SR Mohican Warrior X004.

X004 is a TCB Catawba Warrior R532 son we chose to use natural service as we were impressed with his terrific power and growth along with high maternal attributes. X004 ranks in the Top 3% for WW and the Top 5% for YW as well as ranking in the Top 15% and Top 2% for MK and TM, respectively. In fact SR Mohican Warrior X004 ranks in the Top 15% or better for 5 EPD Traits.

SR Mohican Warrior Y174.

SEMEN AVAILABLE.

Chosen from our 2011 bull calf crop, Y174 has become a sleep easy at night and bet-the-ranch calving ease sire with a BW EPD of -2.3 which has him ranking in the Top 4% for BW. A son of the proven TCB Catawba Warrior R532 bull, Y174's first females were born in 2014 and are calving now. They are sure to become productive cows as he also ranks in the Top 4% for MK and the Top 25% for TM as well as the Top 25% for SC. His sons will be flagged in the catalog as Calving

Ease. Give them a look if you have heifers to breed for their first time and you will be pleased with the cows he puts back in your cow herd as well. To top off his statistics, SR Mohican Warrior Y174 ranks in the Top 25% or better for 5 EPD Traits.

SR Apache Warrior Z275.

Purchased in our 2014 sale by Spitzer Ranch Alliance Cooperator, Matt Hibberts, Adairsville, GA; we thought enough of Z275 to keep 1/2 interest. This son of the MC Abrams 468T22 bull seems to us to be another potential Curve Bender standout. His dam certainly helps the equation as she is a daughter of Aces TF Wrangler 145/8. His first calves are now yearlings so we are just getting a feel for what he can do. His -0.6 BW EPD places him in the Top 20% ranking for birth weight and we think he will be a great sire of females as he ranks in the Top 10% for MK and the Top 15% for TM. SR Apache Warrior ranks in the Top 20% or better for 6 EPD Traits.

H+ Mohican Warrior Z213

We were all pretty impressed with this bull who went through our 2014 development program. Enough so that Spitzer Ranch Alliance Cooperators, Hunts H+ Brangus decided not to put him through the sale, but retain his use as a natural service sire following their AI program. They have birth weights on 17 calves to date and we believe his -1.0 BW EPD will certainly make him a calving ease sire. Another reason for our interest is his Top 3% ranking for MK EPD. H+ Mohican Warrior ranks in the Top 25% or better for 4 EPD Traits. Look for his sons to be very useful on first time heifers for calving ease.

SEMEN FOR SALE.

Be sure and visit the GENETICS PAGE on our SPITZER RANCH

website; www.srbulls.com for complete information and prices on these bulls and others in use in our genetic matings. We have semen available at reasonable prices on Spitzer Ranch bulls we are currently using. Additionally, there are bulls that we have discontinued using in our registered program for one reason or another. However, semen on those bulls finds tremendous application in commercial cattle operations and we sell that semen at a discount.

A LEGACY

The steps I take upon this sod are easier than those my Grandpa trod.

The strong foundation Grandpa laid supports the progress I have made.

He blazed a trail – I follow along.

I profit from what he did wrong.

I build upon what he did for me.

His mark remains on all I see.

All his efforts, the things he tried, they lived on when Grandpa died.

I pray the tracks I leave might be a help to those who follow me.

-----By Joe Kreger,
Oklahoma Poet Laureate.
From book: "Still Lookin".

SPITZER FAMILY NEWS

Doc can seldom make anything romantic work to his advantage. BUT, just every once in a while he gets a home run. Have to set the scene a bit. Patricia's idea of a super-great car is first that it gets her where she wants to go, and back, each and every time with no exceptions. Second, it needed to somewhat resemble a station wagon (do you remember those?).

Over the "raisin' boys" stage of our lives she had several full size Oldsmobile, three seat, eight passenger wagons and she could squeeze herself plus 8-9 kids in a pinch. Our final was a 90's model white Oldsmobile complete with real imitation wood trim that lasted some 200,000+ miles. You could not buy another and she wasn't going to have anything else. Well sure enough it began to violate her first rule of cars - frequently. After a brief flirtation with others, we then went to Mercury Mountaineer which are really station wagons, but now called SUVs. As a bonus it was 4X4 which meant she became really brave with hauling anything anywhere. Yes there are stories I will never repeat.

Back to the home run. We were in a motel somewhere in late 2001 and we needed a walk after supper. Just happened to pass the local Ford dealer and on the lot was an inspiration yellow, yellow and black interior 2002 Ford Thunderbird Roadster. Never before had she ever said anything about a "pretty car". Since then she often repeated that someday she was going to have one of her own.

You bet I did! I found a 2002, yellow Retro Bird. A 14 year old car with only 5700 miles, always kept in heated garage and in absolutely new condition. I bought it for her birthday present (I am

smart enough not to say which one). Sorry guys, but I am now husband of the century and have been forgiven for some 50 years of lack of culture.

Of course our big news was the dispersal of all of our bred females to Hunts H+ Brangus. They made four trips and hauled all of the fall-bred cows to Calhoun, GA in June and July. We also sold eight winter/spring-bred cows to new Registered Brangus Breeder, Jared Figley, Okeechobee, FL and he moved those in November. At any rate, our entire cow herd now consists of two 16-year-olds and four "super cows" we retained to go into embryo production program. We did keep our best 24 heifer calves which will be bred and shipped to Kansas next fall. Additionally we are anxiously looking forward to about 50 embryo calves to be born in Kansas this March.

Don't remember an easier winter calving cows (the six head calved in a month); or feeding for that matter. Sad in some ways, but we are ready to slow down some and will enjoy transferring our genetic program to SPITZER RANCH, LLC - Preston, KS; Ben Spitzer and Dr. Brian Spitzer. We will still maintain a 1/3 interest, but decisions are quickly being passed to them. We recently partnered with Brian and Loretta on a half section of land (NW & SW Quarters) near Preston, NE of Pratt, to give us a home base. But we plan to mostly run cows on leased land for now. They also have a new home and a set of buildings on the NW quarter. We will certainly send addresses and contact information in future Newsletters.

Tricia's Thunderbird gave us an excuse to travel and our first trip was to Paducah, KY. For you lesser informed that's the home of the National Quilt Museum. Patricia is

an old hand at pretty involved quilting and Doc tagged along, actually pretty amazed at the artistic ability on display. It was a fun four days as Paducah has been a river port from our early history. Lots of interesting tours, particularly the parts the city played in the Civil War and still plays as a river port.

If Patricia is anything she is more than fair so we returned home via Elizabethtown, KY and the Swope Auto Museum. If you like cars this is a fantastic several hour stop. They have something over 100 cars in the collection and have a rotating display of 40-some to view. It is rather an eclectic collection containing Thunderbird, Packard, Chevrolet, Cadillac, Ford and some we had never seen before. Models span early 1900s to late 1960s and there is a representative of almost every make imaginable. A fun stop.

Mid-October found us back on the road with a trip part way up the Blue Ridge Parkway. People travel from all over to drive the Parkway during "leaf season". We have lived here 35 years and had never before found time so we took time. A really great drive through the mountains with overlooks about every ten miles. Of course we did the obligatory overnight and evening dining at the Pisgah Inn, Canton, NC. If you ever get to the GA, SC, NC mountain region we highly recommend the Blue Ridge Parkway tour.

John has been a Genex delegate for almost ten years now. One of the responsibilities are regional fall meetings. Ours was in November in Atlanta and good friend Coy Reese, a Jersey Breeder from NC, picked me up in route. Always enjoy Coy as he is a very astute dairyman and works hard with genetic selection. He milks about 200 head and every cow on the place is AI sired. If you listen you learn from dairymen.

SPITZER RANCH Professional Cattlemen's Bull Development Program

Test 2015-1 168-DAY Final Report ~ November 7, 2015

ID Number	Sire	EPDs											Birth		Adj Weaning				Test-Development			Adj Yearling				
		CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT	Date	WT	WT	RAT	NC	ADG	RAT	WDA	SC	FS	WT	RAT	NC	
B402	TCB Catawba Warrior R532	3.4	0.0	29	63	15	30	3.0	0.9	0.69	0.10	-0.031	10/02/14	82	618	98	2	3.57	109	3.07	36.3	6.1	1189	102	2	
B405	TCB Catawba Warrior R532	8.0	-2.3	31	66	15	30	3.3	1.0	0.75	0.06	-0.016	10/17/14	62	648	102	2	3.08	94	2.97	33.9	5.4	1140	98	2	
B403	TCB Catawba Warrior R532	7.4	-2.0	19	34	20	29	2.8	0.5	0.41	0.00	-0.023	10/13/14	66	593	99	6	2.65	81	2.77	32.2	4.8	1018	92	5	
B407	H+ Mohican Warrior Z213	5.9	-0.8	18	38	13	22	3.2	0.3	0.28	-0.05	-0.034	11/07/14	70	577	97	6	3.34	102	3.03	34.2	6.7	1111	100	5	
B410	H+ Mohican Warrior Z213	2.0	1.7	28	52	11	25	2.5	0.3	0.35	0.03	-0.034	11/12/14	84	599	100	6	3.51	107	3.12	31.1	6.1	1160	104	5	
B414	TCB Catawba Warrior R532	4.0	0.9	41	84	20	40	2.5	1.5	0.63	-0.01	-0.035	11/26/14	80	710	119	6	3.10	95	3.31	34.5	7.5	1206	108	5	
B417	SR Mohican Warrior X004	1.2	2.9	38	66	12	31	3.8	0.8	0.11	0.03	-0.039	12/08/14	88	626	105	6	3.48	106	3.26	35.2	6.9	1182	106	5	
B457	Aces TF Wrangler 145/8	8.1	-2.7	13	33	17	23	3.6	0.2	0.12	0.11	-0.027	10/26/14	62	607	94	4	3.21	98	3.04	30.8	5.7	1120	96	4	
B458	TCB Catawba Warrior R532	7.0	-2.1	21	45	16	27	3.8	0.9	0.34	-0.03	-0.023	10/27/14	74	645	100	4	2.99	91	3.07	35.0	6.2	1124	96	4	
B461	TCB Catawba Warrior R532	9.1	-3.1	18	42	18	27	3.5	0.7	0.51	0.09	-0.014	10/28/14	62	630	98	4	3.52	107	3.27	36.8	6.2	1193	102	4	
B464	Aces TF Wrangler 145/8	-1.7	4.0	33	67	18	35	1.8	0.3	0.27	0.08	-0.032	11/01/14	94	694	108	4	3.42	105	3.38	36.5	7.8	1241	106	4	
B463	Aces TF Wrangler 145/8	1.4	1.8	25	49	12	25	2.9	0.4	0.10	0.09	-0.029	10/31/14	78	645	98	2	2.96	91	2.98	30.6	6.0	1119	95	2	
B471	MC Abrams 468T22	2.1	1.0	32	65	15	31	3.0	0.2	0.46	0.12	-0.042	11/09/14	78	677	102	2	3.45	105	3.31	35.5	6.5	1229	105	2	
B494	TCB Catawba Warrior R532	3.6	0.8	32	59	14	30	3.4	0.8	0.55	-0.03	0.040	09/27/14	83	609	108	3	2.79	85	2.76	32.6	5.7	1055	98	3	
B496	TCB Catawba Warrior R532	4.8	-0.9	26	60	16	29	2.5	1.1	0.64	0.05	-0.030	10/02/14	87	564	100	3	3.51	107	2.92	34.3	5.3	1124	104	3	
B497	SR Mohican Warrior X004	5.7	-1.0	26	54	13	25	3.7	1.0	0.17	0.07	-0.037	10/27/14	77	522	92	3	3.32	101	2.78	26.8	5.2	1052	98	3	
192B	Millhouse Majestic 31Z24	3.5	1.3	33	61	6	23	3.6	0.9	0.62	-0.09	-0.049	11/20/14	75	649	100	1	3.75	115	3.47	37.7	7.8	1249	100	1	
17	Total Bulls	4.4	0.0	27	55	15	28	3.1	0.7	0.41	0.04	-0.027		77	624	101		3.27	100	3.09	33.8	6.2	1148	101		

SPITZER RANCH Professional Cattlemen's Bull Development Program

Test 2015-2 168-DAY Final Report ~December 26, 2015

ID Number	Sire	EPDs											Birth		Adj Weaning				Test-Development			Adj Yearling				
		CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT	Date	WT	WT	RAT	NC	ADG	RAT	WDA	SC	FS	WT	RAT	NC	
B418	H+ Mohican Warrior Z213	5.5	-0.7	20	43	14	24	2.9	0.2	0.36	0.01	-0.032	12/12/14	76	523	88	8	2.79	93	2.56	29.8	5.8	969	90	7	
B421	H+ Mohican Warrior Z213	1.0	3.0	31	60	16	31	3.2	0.4	0.40	-0.06	-0.027	12/17/14	96	627	106	8	3.07	103	3.06	34.6	6.8	1117	103	7	
B424	SR Mohican Warrior X004	7.7	-1.2	28	51	10	23	4.1	0.7	0.11	0.06	-0.038	12/18/14	62	569	96	8	2.98	100	2.79	31.6	5.4	1045	97	7	
B425	SR Mohican Warrior X004	-0.7	3.8	39	65	10	29	2.9	0.6	0.15	0.01	-0.039	12/19/14	98	608	102	8	3.36	113	3.15	39.2	6.9	1145	106	7	
B427	SR Mohican Warrior X004	2.6	2.8	39	75	13	33	3.3	0.7	0.31	0.01	-0.039	12/21/14	80	654	110	8	2.87	96	3.04	34.0	6.9	1114	103	7	
B428	SR Mohican Warrior X004	-0.7	3.5	36	62	13	31	2.8	0.8	0.04	0.10	-0.031	12/26/14	96	628	106	8	2.92	98	3.01	33.7	7.0	1096	101	7	
B430	SR Mohican Warrior X004	0.7	3.4	43	73	13	34	3.9	0.4	0.05	-0.01	-0.033	12/29/14	92	661	111	8	3.12	105	3.19	36.1	7.5	1161	107	7	
B419	H+ Mohican Warrior Z213	5.2	0.0	26	55	17	30	2.7	0.4	0.49	0.02	-0.030	12/13/14	72	643	100	1	3.30	111	3.07	33.8	6.3	1170	100	1	
B435	SR Mohican Warrior X004	4.8	0.5	37	69	16	34	3.6	1.0	0.29	0.01	-0.022	01/26/15	66	568	100	TW	3.14	105	2.89	35.6	5.4	1071	100	TW	
B437	SR Comanche Warrior U806	1.5	1.2	22	42	11	22	2.4	1.0	0.27	0.11	-0.030	01/29/15	78	555	100	1	2.61	87	2.69	32.6	5.4	972	100	1	
B481	SR Mohican Warrior Y174	4.0	-0.1	26	55	15	28	3.5	0.8	0.33	0.02	-0.020	12/14/14	78	641	100	1	2.83	95	2.97	31.8	6.3	1093	100	1	
B484	SR Mohican Warrior Y174	4.4	-0.1	23	48	15	27	3.2	0.7	0.42	-0.04	-0.028	12/21/14	80	553	100	1	2.45	82	2.59	33.3	5.4	945	100	1	
B498	SR Apache Warrior Z275	5.5	-1.1	30	61	14	30	3.4	0.3	0.52	0.14	-0.044	01/16/15	72	612	100	1	3.34	112	3.10	34.7	4.7	1146	100	1	
13	Total Bulls	3.2	1.2	31	58	14	29	3.2	0.6	0.29	0.03	-0.032		80	603	101		2.98	100	2.93	33.9	6.1	1080	101		

Average EPDs SPITZER RANCH BRANGUS BULLS - Tests 2015-1 and 2015-2

EPDs	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
SPITZER RANCH Bulls	3.9	0.5	29	57	14	29	3.2	0.7	0.36	0.03	-0.029

Average EPDs BRANGUS Nonparents - Winter 2015 Sire Summary

EPDs	CED	BW	WW	YW	MK	TM	CEM	SC	REA	%IMF	FAT
BRANGUS Non-Parents	3.8	1.0	24	45	10	21	4.1	0.4	0.33	0.01	-0.041

SPITZER RANCH AND HUNTS H+ BRANGUS

Professional Cattlemen's Performance Tested Brangus Bull Sale

Saturday, February 27, 2016 at 1:00 PM (EST)

At Spitzer Ranch in Fair Play, SC

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for 2 miles and look for our ranch sign on your left.

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