



**Quality
Over
Quantity**

Charolais Bull and Heifer Sale

Thursday, October 13, 2022

The Sale will be online at DVAuction.com





Jim and Martha Johnson 434-546-2341
www.jmargenetics.com

**Quality
Over
Quantity**

**JMAR Genetics and Guests
Charolais Bull and Heifer Sale
Thursday, October 13, 2022**

**Bulls and Heifers are located at the WVU Bull Test Station,
Wardensville, WV - The Sale will be held online at DVAuction.com**

Sale Day:	Thursday, October 13, 2022
Sale Location:	WVU Reymann Memorial Farm, Wardensville, WV
Sale Day Phone #:	Wardensville Bull Sale Facility 304-874-3561 or any of the consignors.
Sale Type:	Online Only at DVAuction.com under Upcoming Timed Events.
Sale Time:	Begins at 9:00 am & Closes at 5:00 pm with a horse race finish <i>(Please see the following DVAuction pages for a description how the auction works and a horse race finish)</i>
Viewing Bulls & Heifers	Bulls & Heifers will be located at the WVU Bull Test Station until Oct. 13 and available for viewing at any time up to that date.
Purchased Bulls & Heifers	Buyers may pick up bulls and heifers at the conclusion of the sale on Oct 13 from Wardensville, WV. Otherwise, the Bulls and Heifers will be transported back to the nearest consignor's location where pick up or delivery will be coordinated.
WVU Bull Test	Jerry Yates – Manager – 304-261-3035 – jerry.yates@mail.wvu.edu Please contact Jerry to schedule a visit or if you have any questions about the bulls and heifers or the GrowSafe feed efficiency system.
Sale Day	We have an open house on sale day. Come meet the consignors, view the cattle and enjoy some food. Hope to see you there.

Special Guests (Contact for assistance in bidding or any questions about the cattle)

C Squared Cattle Company, Tommy Clark, 540-937-0029 & Will Clark 540-812-6007, cattleclark@gmail.com

Testerman Charolais, Caleb and Ashlee Testerman, 304-445-8382, www.testermancharolais.com

Desco Charolais, Daren Statler, 717-729-6453, www.descocharolaisfarm.com

Clark Charolais Farm, David Clark, 410-924-3521, sfdjc@outlook.com

Sale Representatives (Contact for assistance in bidding or questions about the cattle)

Floyd Wampler - American International Charolais Assn. - 423-612-2144 - fwampler@charolaisusa.com

DVAuction

Broadcasting Real-Time Auctions

Upcoming Timed Events

Questions or help with
DVAuction.com contact;
402-316-5460 or
support@dvauction.com
Or any of the consignors or representatives.

How to use DVAuction, Inc

Create New Account

Click 'Create New Account' on the homepage and fill out the form with Contact Information (including email and password), Time Zone, and Language Preferences. Read the Terms and Conditions, and if you agree to the Terms, then accept the Terms and Conditions (click checkbox) and click Submit.

Activate Your Account

After successfully registering, you will receive an email with a link provided to activate your account. Click on the link or copy and paste the link into your web browser. You must activate your account before you can login and view a sale.

Editing Contact Information

To change or update your Account Information/Settings, click My Account on the Homepage. You will then be able to change Contact Information, Bank Information, Login Information (email/password), and/or Account Settings (Email notifications, Time Zone and Language preferences).

Apply to Bid

There are several ways to apply for bidding. On the homepage, there will be a button for each upcoming event. There is also a 'Apply for Bidding' link available while viewing a sale.



Consignors Tommy Clark, Caleb Testerman, David Clark, Jim Johnson and Daren Statler

Online Bidding

Frequently Asked Questions

Is the auction platform mobile friendly?

Yes, the auction platform and entire site is mobile friendly. So, no matter the device (computer, cell phone, tablet, etc) you are utilizing to view and/or bid on the auction. The site is responsive to your screen so you have the most optimum viewing and bidding experience.

How do I get a bidder number for the auctions?

There are no bidder numbers utilized on this auction platform. Each user will have one account under their email address (using the password you set up when you registered) that can be utilized for all auctions.

Why is a credit card required to bid?

We require each user to post a credit card verification to ensure that each of our bidders is a valid, qualified bidder. This verification method has been implemented for the protection and security of each of our bidders. Each bidder knows that all bidders are valid and that they have met the same requirements that you have to be able to bid online. The credit card verification process is completely secure and PCI compliant. Please see the Terms and Conditions segment for more details or contact us for validation if you have concerns.

How do I bid?

Select the JMAR Genetics and Guests Auction. When the bidding for the auction is open, you will have the opportunity to enter your bid (and your maximum bid) for each animal. Simply login to your user account and click on the Bid button for each lot to submit the bid(s).

How do I know if I am winning if there are no bidder numbers shown?

If you are watching the auction via a computer or via your mobile device, when you are winning the screen will show this message: You are winning! in green on the lot(s) you have the high bid on. If you get outbid, the message will change to: You have been outbid.

How do I know if I got outbid?

If you get outbid on any lot within an auction, you will receive a notification based on the preferences you set up in your user profile registration. There are two outbid notification preferences you could possibly receive – a text alert sent directly to your cell phone, or an email sent to your registered email address, or both!

If you are watching the auction via a computer or via your mobile device, when you are outbid, the screen will show this message: You have been outbid. If you would like to bid again on that lot, simply click on the Bid button and Place a Bid.

How can I make sure I am seeing the most current bidding information on the screen?

During the bidding process you will not need to refresh your page to ensure you are viewing the most current bidding activity. The auction platform auto-refreshes the page, and the bidding is in real time.

How do I find out more about a posted item?

Contact information for the seller can be found in the sale catalog and also underneath each lot on a particular auction. If you have any questions regarding a specific item, please contact the seller.

What is a Maximum Bid?

A maximum bid is the highest dollar amount you are willing to pay for an item. Here is an example of using the maximum bid feature. If you enter a maximum bid the system will automatically bid on your behalf up to your maximum bid amount. For example, let's assume that you enter a bid of \$2000 on an item and maximum bid of \$4000. If no other bids are placed on that item, you will be the winner at your \$2000 bid. If another bidder places a bid of \$2250 on the item you will now be winning at \$2250 plus one increment level, $\$2250 + \$250 = \$2500$. Your maximum bid is completely confidential and not revealed to the public or viewed by anyone other than you when selecting this feature.

May I raise my Maximum Bid?

Yes, you have the ability to raise and/or lower your maximum bid at any given time while the auction is open for bidding. However, when lowering your maximum, you can not change the maximum bid price to lower than the current winning bid.

What is a Bid Increment?

The bid increment is the minimum dollar amount that the bid must be raised. Bid increments will typically be in \$250.00 increments. You can bid higher than the minimum bid increment (next required bid), or you may enter a maximum bid, but you may not bid in denominations less than the set bid increment.

Call in Bidding.

To bid via the telephone, call the sale day phone or any of the consignors or professional representatives to place call-in bids for the online auction. Everyone will be glad to assist you in the bidding process.

In Person Bidding.

Bulls and heifers will be available for viewing and pick up sale day after the sale. We will have computers, tablets and phones available sale day to place bids for anyone who wants to bid in person.

How does the auction end?

The auction will end at 5 pm eastern time or as shown on the DVAuction.com. Please visit the DVAuction.com page to confirm the closing date and time.

This auction will utilize an auto-extend, horse race style closing. With this feature, the bidding will remain open on all items in the auction if there has been at least one bid received on any one item in the auction within the last 5 minutes (or the set extended bidding increment at the time). Once 5 minutes has lapsed without any bidding activity, the bidding on all items will be closed. All lots will close simultaneously.

Please see the examples below – this is a sample and may or may not match the actual ending times.

Example #1:

Auction closes at 5 PM. There is no bidding from 4:55 PM to 5 PM. All lots are declared closed and the sale ends at 5 PM.

Example #2:

Auction closes at 5 PM. There is a bid placed at 4:57 PM. Auction is extended by 5 minutes. No more bidding occurs. All lots are declared closed and the sale ends at 5:02 PM.

Example #3:

Auction closes at 5 PM. There is a bid placed at 4:57 PM. Auction is extended by 5 minutes until 5:02 PM. Another bid is placed at 5:01 PM. No more bids are placed. All lots are declared closed and the sale ends at 5:06 PM.

What is the auto-extend time within the horse race style closing?

The auto-extend time goes into effect once the auction reaches its original ending time. The auction will remain open for bidding on all items within the auction if there has been at least one bid received on any one item in the auction within the last 5 minutes, even if the original ending time has been reached. Extended bidding means that the auction is not declared closed until there have been 5 minutes of inactivity on the entire auction. Each time a bid is placed, it resets the clock timer on the auction back to the high water mark auto-extend time that is set.

How do I know I won?

If you are the high bidder, DVAuction.com online auction staff will email you to your registered user email address immediately after the auction has ended. This email will inform you that you have won the bid and the purchase price.

If I win, how and when do I pay?

At the conclusion of the auction the owner of the lot purchased will give you a call confirming you purchased their lot and arranging payment. After confirmation they will invoice you via email. Payment is expected within 2 weeks of the purchase date.

Explanation of Data and Information on Individual Lots

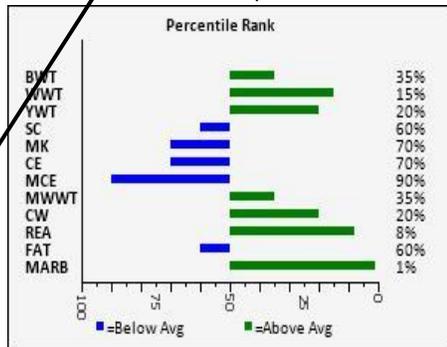
Designates EPDs are Genomic Enhanced | Photo of the Actual Lot For Sale | Pedigree Information | EPD Graph with % rank by trait. | PA Status

Lot Number: **2** | Birth Date: | Registered Name: **JMAR FOREFRONT 4R29** | Registration Number: **M931630** | Horned/Polled status: **Polled**



Pedigree Information:
 RAILE 2250 T077
 EC FOREFRONT 8066 PLD
 EC LADY ASSET 8066 PLD
 SCHURRTOP V351 E423 P
 JMAR MS DOUBT 3E27
 DCR MS DOUBT Z208

DOB 8/20/2019 | PAF



Percentile Rank

BWT	35%
WWT	15%
YWT	20%
SC	60%
MK	70%
CE	70%
MCE	90%
MWWT	35%
CW	20%
REA	8%
FAT	60%
MARB	1%

	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	3.3	4	41	72	8	1.5	28	.8	1.27	1.23	27	.91	.011	.35	222.9	-2	.7		-2.1			
Act.		77	699	1003				33				15.1	.15	2.09		-2.3	3.7	5.1	-1.7	5	5	6.5
Ratio		99	106	95				92				103	88	101		1	15		1			

4L28 is a powerful calving ease son of OVV Lead Time out of the Z208 Donor. He's deep thick and sound. He ranks in the top 1% for Marbling and 8% for Ribeye area. Balanced traits and nice phenotype are his attributes

Footnotes or additional information about the animal | Ratio or where the animal ranks within their contemporary group | Designates the actual performance or measurement of the animal. | EPD's where pedigree, actual performance, ratios and genomics all combine | **GrowSafe EPD Rank Across all Breeds.**

ce	calving ease	The difference in percentage of unassisted births in first calf Charolais heifers. A higher value indicates greater calving ease.
bw	birth weight	The expected difference in average birth weight (pounds) of progeny.
ww	weaning weight	The expected difference in average weaning weight of progeny.
yw	yearling weight	The expected difference in average yearling weight of progeny.
m	milk	The genetic ability of a sire's or dam's daughters to express pounds of weaning weight due to her maternal ability through mothering instinct and milk.
mce	maternal calving ease	The difference in percentage of unassisted births in first calf daughters. A higher value indicates greater calving ease.
mtl	total maternal	The weaning weight performance of calves from an animal's daughters due to genetics for growth and maternal ability.
sc	scrotal circumference	The expected difference in scrotal circumference (expressed in centimeters) of a bull's or dam's male offspring at yearling. Research has indicated a relationship between increased SC EPD and decreased age at puberty for daughters.
ud	udder score	The difference in udder suspension. The higher the number the better daughters are expected to be for udder suspension.
te	teat score	The difference in teat size. The higher the number the better daughters are expected to be for teat size.
cw	carcass weight	Expected progeny differences for carcass weight is a predictor of pounds of retail product at a constant age endpoint.
rea	ribeye area	Ribeye area is measured from a cross-sectional area of the longissimus dorsi muscle at the 12th rib. Ribeye Area EPD are expressed in square inches at a constant age endpoint.
ft	fat thickness	Fat thickness is measured at the 12th rib and expressed in inches.
mb	marbling	Marbling is a subjective measure of the amount of intramuscular fat in the ribeye muscle. Marbling score is the primary component of USDA Quality grade and selection for increased Marbling Score EPD should result in cattle with higher quality grades at the same age endpoints.
tsi	terminal sire index	TSI represents a dollar index ranking them for profit potential for the terminal traits BW, WW, YW, REA, CW, MARB and FAT.
dmi	dry matter intake	The amount of feed an animal consumes per day on a moisture-free basis.
adg	average daily gain	The average amount of weight an animal will gain each day during the feeding period.
f/g	feed to gain ratio	or feed conversion ratio is the measurement of converting feed into pounds or the amount of feed needed to produce a pound of gain.
rfi	residual feed intake	is a measure of feed efficiency calculated as the difference between an animal's actual feed intake and its predicted feed intake
fa	foot angle	Foot angle is measured as the degree of angularity from the toe and the base of the hoof to the base of the coronary band. Heel depth plays a significant role in hoof angle.
cs	claw set	Claw set is described as the relative size and curvature of the lateral and medial claw on an individual hoof where the distance between claws serves to indicate the level of divergence.
fs	frame score	Represents differences in height at the same age and is adjusted to one year of age.
pa	progressive ataxia	Progressive ataxia (PA) of Charolais cattle is an inherited neurodegenerative disease affecting the hind limbs that can gradually progress until the affected animal is unable to stand. Catalog Designations - PAF = PA Free, PAC PA Carrier, N/T = Not Tested.

Charolais Breed Average EPDs

CE	BW	WW	YW	Milk	MCE	MTL	SC	UDDER	TEAT	CW	REA	FAT	MARB	TSI
5.7	-3	56	101	22	5.3	51	.9	1.12	1.07	21	0.70	0.009	0.11	245.2



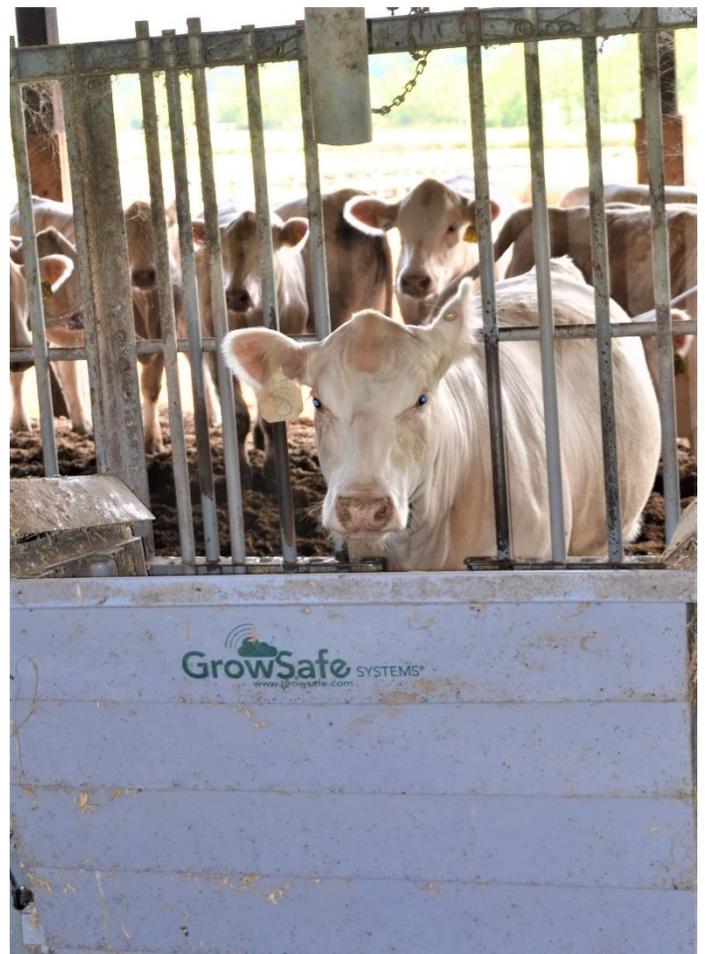
GrowSafe Systems Ltd. builds advanced animal agriculture systems to help producers optimize their operations. GrowSafe's advanced data acquisition platform features integrated hardware and software analytics that provide producers with data to make better decisions for their operations. Today, GrowSafe is helping to raise more efficient, environmentally friendly and healthier animals in 22 U.S. states, seven Canadian provinces and on farms in Mexico, Australia, Brazil, Uruguay, Namibia, South Africa, New Zealand and across Europe.

Why Feed Efficiency?

Approximately 55 to 75% of the total costs associated with beef cattle production are feed costs (NRC, 2000; Arthur et al., 2001a; Basarab et al., 2002).

A 5% decrease in feed efficiency could have an economic impact four times greater than a 5% improvement in average daily gain (Basarab et al., 2002).

In feedlot studies demonstrated that a 10% improvement in average daily gain (ADG) as a result of a 7% increase in appetite improved profitability 18%, whereas, a 10% improvement in feed efficiency returned a 43% increase in profits (Fox et al., 2001).



What should I select for?

Dry Matter Intake (DMI) Feed Conversion (F/C) or Residual Feed Intake (RFI)

When selecting bulls for a terminal cross breeding system we suggest applying more selection pressure on DMI and F/C, while still selecting for cattle with exceptional growth, muscle and carcass quality. If you happen to be more maternally focused or plan to keep daughters of these bulls then applying more selection pressure to RFI may make more sense.

We recommend selecting cattle how you normally would. Select the ones that work for your program and environment, yet simply select for the ones who eat less doing it.

American International Charolais Association CHAROLAIS TERMINAL SIRE INDEX (TSI)

By: Sally L. Northcutt Ph.D.

The beef cattle industry is always seeking out simple, no hassle ways to make genetic improvement. This is not always the case for the cattle producer when selecting bulls, particularly with the long list of available expected progeny differences (EPDs). Other animal industries, such as dairy, swine, and poultry have capitalized on the use of selection index values in their programs. Selection indexes are a result of applying economic values to genetic predictions and are designed for specific breeding objectives. In short, selection indexes are difficult to develop but easy to use and are typically expressed in dollar units. The American International Charolais Association (AICA) was the first major beef cattle breed association in the United States to deliver a public-release selection index called Terminal Sire Index, better known as TSI.

HOW IS TSI USED?

It is important to remember the way to use TSI. The TSI is a genetic selection tool reported in dollars to rank sires on differences in terminal calves produced for profit potential. By terminal, the assumption is that all calves are marketed, and replacement females are not retained. In the example below, we would expect Sire A's calves to average \$20 more net return than Sire B's progeny.

Sire A: TSI,	\$200
Sire B: TSI,	\$180
Difference	\$20 per head

Once the EPD and registered animal requirements are met, any animal can have a TSI value displayed. Granted the name is a 'sire index' but young male and female animals will also have a TSI value displayed. The benefit of a selection index is to simplify the list of EPDs into a number to be used in selecting for a specific production scenario, in this case a terminal marketing scheme where calves are sold on carcass value. Replacement females are either purchased or raised as a separate enterprise.

The TSI is not appropriate as a sole selection tool for replacement females. It does not include maternal traits. Also, while birth weight EPD is part of the TSI equation, calving ease EPDs are not used and the TSI should not be the focused selection criterion for first-calf heifers.

WHAT EPDS ARE INCLUDED IN TSI?

With TSI being a terminal index, the list of traits will not include maternally influenced traits since it is assumed that all calves be marketed. The EPDs include

birth weight, growth traits and carcass predictions. Below is an overview of EPDs included in TSI:

EPDs

- Birth weight
 - Weaning and yearling weight } Gain
 - Hot carcass weight
 - Ribeye area
 - Fat
 - Marbling } Quality Grade
- Yield Grade

The inclusion of weaning weight EPD and yearling weight EPD allows for the feedlot gain potential. Carcass weight, ribeye area and external fat thickness are utilized to address genetic merit for yield grade. Marbling EPD is also part of the TSI component traits for a quality grade adjustment.

The beauty of selection indexes is that genetic relationships among traits are accounted for in the index formulas so that economic weighting factors are appropriately assigned to each EPD. Once the weighting factors are applied to each trait EPD then the TSI result is a sum of the various contributing factors.

TSI results are highly correlated with yearling weight EPD. Care should be taken in the selection for TSI, as its impact on calving ease and cow size is not documented.

To search AICA Charolais EPDs and TSI, go to:

<http://search.charolaisusa.com/default.aspx>

Single Step:

The Latest Advancement in Genomic Evaluation

Kelli Retallick and Dan Moser, AGI

Since 2015, AICA has provided genomically enhanced expected progeny differences (GE-EPD) for Charolais cattle. Using a multi-step approach, based on calibration research from Iowa State University, genomic test results have been combined with pedigree information and performance data, resulting in greater accuracy, especially for young animals. Now AICA will soon transition to a Single Step genomic evaluation. The move is the result of years of research and development to equip Charolais breeders with the most sophisticated, accurate and reliable genetic selection tools available.

What is Single Step?

The key difference between Single Step genomic evaluation and multi-step evaluation is how genetic relationships between animals are determined. With the previous multi-step approach, the relationships between animals are determined by pedigree alone. Pedigree data would dictate all full sibs, for example, would have a genetic relationship to one another of 50%, and the relationship between grandparent and grand-progeny is 25%. These are the correct values on average. However, we know variation exists in these relationships among relatives.

The genomic information identifies differences that the pedigree alone cannot detect. In Single Step evaluation of other breeds, genomic relationships among full-sibs range from as low as 35%, to 65% or higher. Some pairs of flush-mates share over two-thirds of their genetic material, while others share as little as one-third. Through Single Step, genomic relationships among animals are used to improve the accuracy of EPDs for both genotyped and non-genotyped animals.

The methodology works to more fully understand the ancestral source of the DNA of a particular animal. A greater proportion of DNA than expected, 30% or more, may be passed down from the maternal grand-sire (MGS) to an individual grandson or granddaughter, rather than the expected 25%. If the MGS has outstanding growth genetics, then the DNA relationships will drive the associated WW and YW EPDs of the grand-progeny higher. However, if an animal is more genetically related to an individual with low growth genetics, in return, the WW and YW EPDs on that individual will decline. Single Step also recognizes relationships among animals that would appear practically unrelated based on pedigree alone, compared to the average of the animals' parents. Within the breed, many animals share significant

amounts of genetic material passed down from many generations prior. Single Step recognizes these relationships based on DNA markers, and more effectively connects data among animals. Using these genomic relationships, the Single Step methodology results in more accurate genomic values than ever before.

Genomics Updated in Real Time

It is well documented that genomic predictions need to be recalculated regularly as additional data and genotypes are added to the database. Single Step does just that, by updating the genomic information each time the evaluation is run. With Single Step all sources of information – pedigree, performance, progeny data and genomic results – are updated in real time. This is a positive for breeders as the GE-EPDs are not based on outdated information, and when young sires generate their first progeny data, that information is immediately used in the genomic evaluation.

Proven Improvement in Other Breeds

While Single Step will be new to AICA members, a number of other species and beef breeds have successfully used this technology. Most dairy cattle, swine and poultry genetic evaluations use this approach, in many cases using the same University of Georgia software used at AGI. Other US beef breeds such as Beefmaster, Brangus and Santa Gertrudis have used Single Step since the beginning of their genomic evaluations. The American Angus Association successfully transitioned to Single Step in July 2017, followed by the Canadian Angus Association in September 2017. Several beef breeds in Australia and New Zealand have or will soon also use this technology.

It's important to note genomic test results from previously tested animals will be incorporated into the Single Step evaluation, using the same DNA markers used in the multi-step evaluation. Proven sires would be expected to have minimal changes in EPDs after the transition to Single Step, as their EPDs are mostly the result of progeny data. Genomics contribute more heavily to

young animals' EPDs, so those animals would be expected to show more change in EPD values. More variation in EPDs of siblings should be expected, as the evaluation more accurately tracks differences in relatives due to inheritance. As additional data and genotypes are added to the Charolais database, increased accuracy of EPDs on genomically tested animals will result, providing Charolais breeders and their customers the most accurate genetic evaluation possible. 

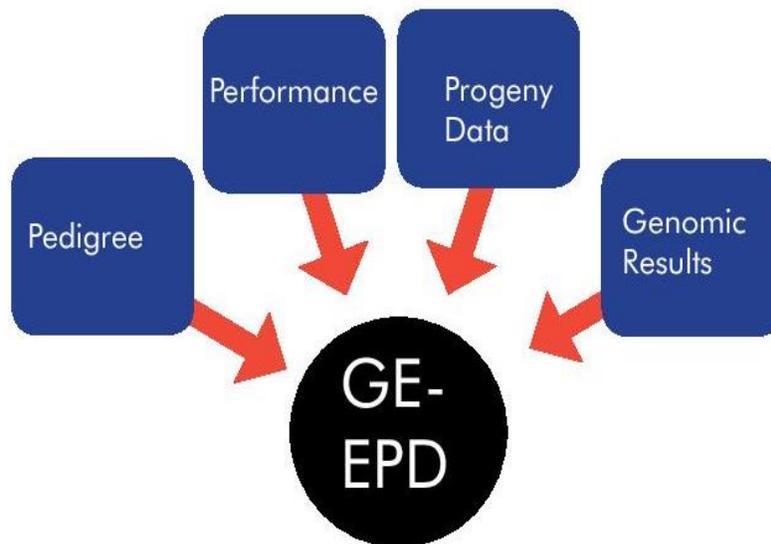


Figure 1. Information contributing to the GE-EPD.

FOOT SCORE GUIDELINES

Foot Angle (5 is ideal)



1

Extremely straight pasterns.
Very short toe. Unsound.



2

Straight front and rear pasterns.
Marginally unsound.



3

Moderately straight front
and rear pasterns.



4

Slightly straight front
and rear pasterns.



5

Ideal. Approximately 45-degree angle
at pastern joint. Appropriate length of
toe and depth of heel.



6

Slightly shallow heel and long toe.



7

Moderately shallow heel and long toe.
Somewhat weak pasterns.



8

Shallow heel and long toe.
Marginally unsound.



9

Extremely shallow heel and long toe.
Extremely weak pasterns. Unsound.

Claw Set (5 is ideal)

Extremely weak, open,
divergent claw set. Unsound.

1



Open, divergent claw set.
Marginally unsound.

2



Moderately open/divergent
claw set.

3



Slightly open/divergent
claw set.

4



Ideal. Symmetrical claws, with
appropriate space between claws.

5



Slight tendency for claws to curl.
One claw may be slightly larger
than the other.

6



Tendency for claws to curl, with one
claw larger than the other.

7



Moderate scissor claw and/or screw
claw. Curling of one or both claws. Near
crossing of claws. Marginally unsound.

8



Extreme scissor claw and/or screw claw.
Pronounced curling of one or both claws.
Crossing of claws. Unsound

9



JMAR GENETICS

Jim and Martha Johnson 434-546-2341
www.jmargenetics.com

Our goal is to supply our customers with the most data possible for your business decisions, while balancing all the convenience traits you desire as well. We are focused on producing the best terminal Charolais cattle we can, without compromising phenotype, feet and legs or maternal ability. We strive to produce cattle that first make you money, last in your herd and are enjoyable to own. We hope you find that in our cattle.



1



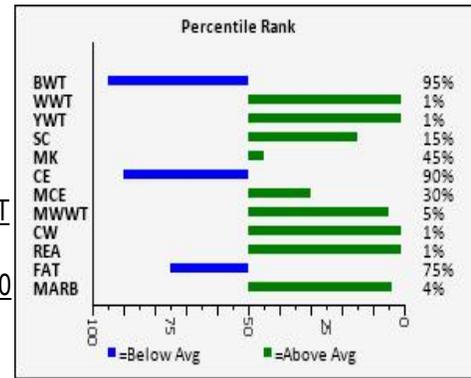
JMAR JEB 11B81

SCHURRTOP V351 E423 P
 JMAR BENAIAH 1E66
 VPI CAMEO GIRL 006X
 M6 NEW STANDARD 842 P ET
 M6 NEW NANCY 2138 P ET
 MS COOLEY S DUKE 1107N60

DOB 8/24/2021 PAF

M955728

Homozygous Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	.7	2.6	81	149	24	7.7	65	1.3	1.03	.94	50	1.14	.019	.27	290.2	-.46	-.11		-.23			
Act.		108	784	1256				35.4				14.5	.11	2.21		24.0	2.58	9.0	.57	5	6	7.2
Ratio		107	100	100				100				100	100	100		10	72		28			100

11B81 is a big, stout, powerful Benaiah son. If you want extra performance and frame, look no further 11B81 is the bull for you. Boasting top 1% of the breed for weaning weight, yearling weight, carcass weight and ribeye area. Backed by one of our best cow families the 2138 cow has more descendants in our herd than any other cow. Notice his feed efficiency EPDs, low intake with added performance. Exactly what you want in a set of feeder calves. 11B81's maternal sister is the Dam of JMAR Hebrew 3M80 our lot 1 bull last year and now an A.I. Sire at Alta Genetics.

2

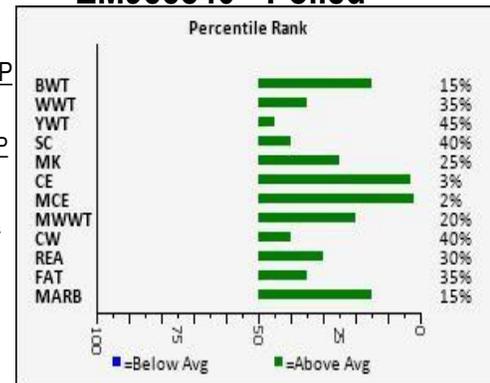


JMAR JESSE 15C41

SCHURRTOP MIDWEST 2829 P
 SCHURRTOP CHANNEL 430Y P
 SCHURRGENE YANA H868 094R P
 SHELCO MADE EASY 512R
 DUBUC BELLA 430B
 DUBUC XABINE 3X

DOB 8/29/2021 PAC

EM955840 Polled



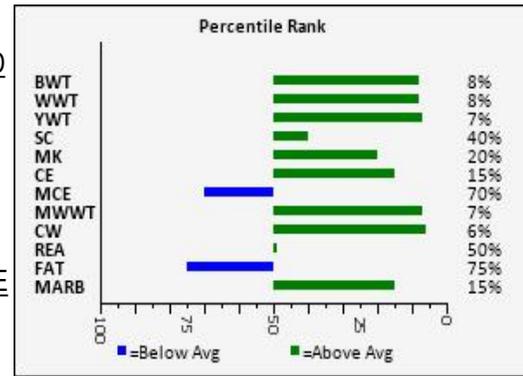
	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	14.1	-2.7	62	107	27	12.6	58	1.0	1.34	1.30	24	.80	.001	.20	253.5	-.16	-.04		-.14			
Act.		80	637	1413				36.1				14.1	.15	1.86		22.9	3.15	6.85	-.02	6	6	5.6
Ratio		100	100	100				100				100	100	100		57	54		52			100

15C41 is a uniquely bred outcross Charolais bull. He's an ET son of our Canadian donor Dubuc Bella 430B. 15C41 is very heavy muscled yet low birthweight and most importantly all the green bars are pointing in the right direction in his EPD graph above.

3**JMAR JUDE 18W91**

LT RUSHMORE 8060 PLD
 WC INFERNO 6561 P
 WC ASTA 0505 P
 WR FOREMAN D602
 VPI MISS DUCHESS 924G
 VPI MISS DUCHESS 720E

DOB 8/31/2021 PAF

M955944 Scurred

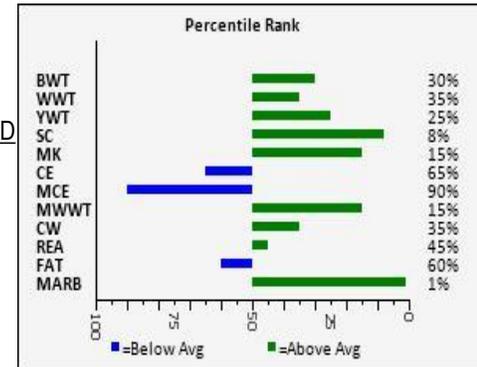
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EPD	10.5	-3.3	71	127	28	4.2	63	1.0	1.39	1.29	35	.70	.019	.21	271.3	-.38	-.05		-.43			
Act.		88	753	1283				34.9				13.1	.14	4.8		23.0	3.33	7.17	-.71	5	5	6.0
Ratio		93	100	100				100				100	100	100		29	59		4			100

18W91 has been a standout from birth and we have given serious consideration to keeping him ourselves to use on heifers. He's deep, soggy, thick, sound and has a tremendous disposition. He also has the highest ultrasound IMF of any bull in the sale at 4.84. He also happens to be one of the top RFI and intake bulls in the sale. 18W91 just does it all especially for a calving ease bull. We'd like to retain 1/4 Semen Interest but if you would like 100%, just add 25% to your purchase price and you can own all of him.

**JMAR JEDEDIAH 19L721**

FF ABOUT TIME Y07
 OW LEAD TIME 6294 PLD
 OW MISS SANDCREEK 3031 PLD
 PVF CAD 0731 PLD
 SCC MISS PV731 72Y PLD
 SCC MISS 44M 79T PLD

DOB 09/04/2021 PAF

EM956490 Polled

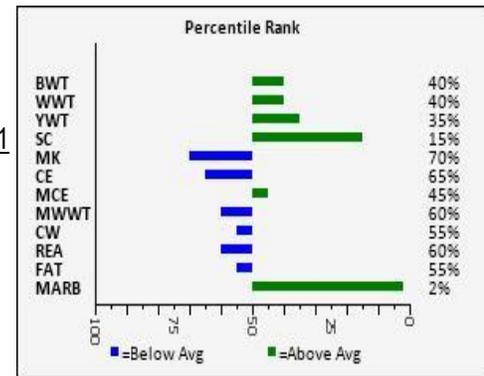
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EPD	4.4	-1.4	62	116	29	1.5	60	1.4	.95	.91	25	.72	.014	.38	266.7	-.55	-.06		-.64			
Act.		81	764	1167				36.3				12.6	.16	3.87		20.5	3.02	6.2	-2.62	5	7	5.8
Ratio		100	100	100				100				100	100	100		5	62		2			102

Another Lead Time son who is a complete outcross to most pedigrees in the Charolais breed. Another bull that just seems to do it all. Low birthweight, high marbling, and wow top 2% for RFI and 5% for dry matter intake. He truly is unique.

5**JMAR JORDAN 24L721**

FF ABOUT TIME Y07
 OW LEAD TIME 6294 PLD
 OW MISS SANDCREEK 3031
 PVF CAD 0731 PLD
 SCC MISS PV731 72Y PLD
 SCC MISS 44M 79T PLD

DOB 10/01/2021 PAF

EM956756 Polled

	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	4.4	-.9	60	112	21	6.4	50	1.3	.91	.85	21	.67	.011	.33	261	-.39	-.04		-.53			
Act.		94	708	1087				37.1				12.4	.22	3.1		19.9	2.87	7.1	-1.5	6	7	5.1
Ratio		100	100	100				100				100	100	100		25	56		3			100

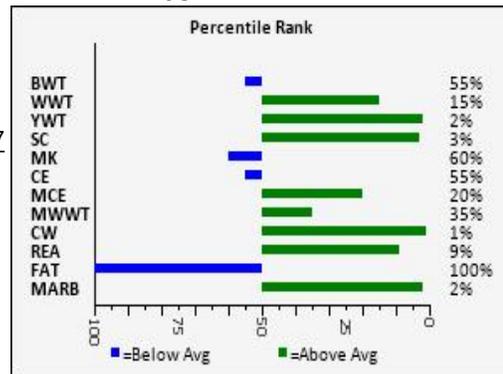
24L721 is a full brother to Lot 4 and in that same pattern. Outcross, high marbling and efficient. Great opportunity to add two full brothers to a breeding program that will produce a high quality and consistent set of calves.



JMAR JOEL 21M11 EM956752 Homozygous Polled

VPI FREE LUNCH 708T
 FTJ MONTICELLO 1806
 FTJ LTRB905 LTBV SHANDY1527
 WCF MR SILVER GUN 467
 DCR MS SILVER LED F136
 DCR MS LEDGER C43

DOB 9/29/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	5.7	-.1	67	136	22	8.5	56	1.6	1.31	1.20	45	.92	.041	.31	283.5	-.21	-.02		-.08				
Act.		87	733	1205				35.4				13.6	.11	2.6		23.0	2.82	7.49	.31	6	6	6.9	
Ratio		100	100	100				100				100	100	100		52	42		63				100

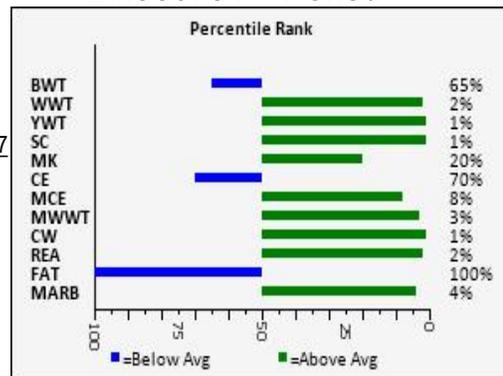
21M11 is a full brother to the \$48,000 JMAR Jefferson 8M11 now at ABS. Like his brother he has breed leading growth, carcass, scrotal, udder quality and TSI EPDs. Don't miss a rare opportunity to select these breed leading genetics from the same gene pool as Jefferson.



JMAR JOSHUA 23M11 EM956754 Polled

VPI FREE LUNCH 708T
 FTJ MONTICELLO 1806
 FTJ LTRB905 LTBV SHANDY1527
 WCF MR SILVER GUN 467
 DCR MS SILVER LED F136
 DCR MS LEDGER C43

DOB 10/01/2021 PAF



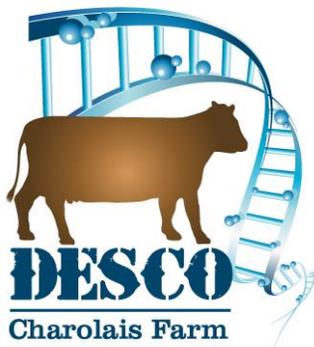
	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	4.2	.4	76	146	28	10.3	66	2.0	1.23	1.13	51	1.08	.045	.28	288.9	-.14	.02		-.15				
Act.		100	775	1314				38.5				14.8	.21	2.35		24.7	3.59	7.15	.60	5	6	6.0	
Ratio		100	100	100				100				100	100	100		59	16		50				100

JMAR Joshua 23M11 is another tremendous herd sire prospect from JMAR and a full brother to the \$48,000 JMAR Jefferson 8M11 now at ABS. Many have asked "how does he compare to Jefferson?" I just say, "He's a bit more moderate framed and a bit more muscle." You just can't find a better EPD profile for Growth, Maternal and Carcass. 23M11 ranks in the top 5% for 8 of his 15 traits. But that's not the end of the story, he's smooth, sound, attractive, and out of a tremendous cow. The old cliché holds true here. "You could wear the tires off a car trying to find a bull that compares to JMAR Joshua 23M11." Retaining 25% semen interest with the option to add 25% to your purchase price and own him in his entirety.



JMAR Jefferson 8M11 the \$48,000 full brother to Lots 6 & 7

DCR Ms Silver Led F136 the outstanding dam of JMAR Jefferson 8M11 and Lots 6 & 7.



Our mission at Desco Charolais Farm is to produce genetics with the best growth and carcass traits available while maintaining ideal calving ease and maternal ability. We do this by acquiring females in the breed that are outliers in those traits and using Advanced Reproduction Technology to propagate those genetic traits with complimentary sires. If you are serious about beef production, we think our genetics will increase your profitability.



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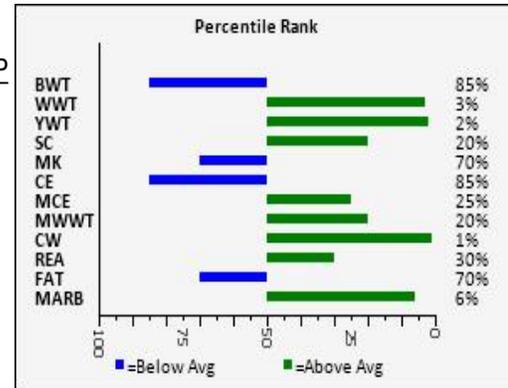


DESCO SIR BENAIAH 115 PLD M969147 Polled

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X

JLS LEGEND 812Y PLD
EC LOCKLYN 849 PLD
EC DELLA 553 PLD

DOB 8/05/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	1.6	1.5	76	136	20	8.1	58	1.2	1.16	1.10	47	.79	.018	.25	275.5	-.26	-.08		-.10				
Act.		84	511	917				30.5				11.6	.10	2.46		21.6	3.22	7.26	.20	5	7	4.7	
Ratio		99	90	92				93				90	83	109		44	65		57				89

Another Benaiah son on Eggleston genetics. His dam was the #1 weaning heifer in her contemporary group of 14. Top 3% WW, 2% YW, 4% TSI, 1% CW, 6% MB.

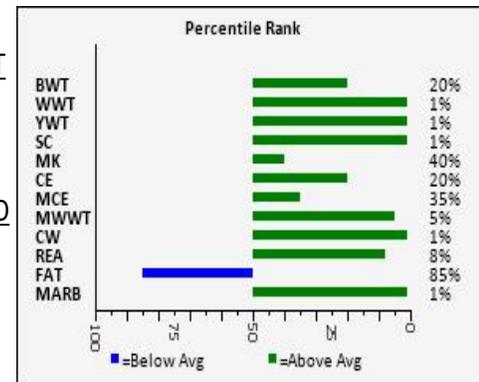


DESCO BOCEPHUS 123 P/S ET EM967275 Scurred

M6 NEW STANDARD 842 P ET
ABJR NEW HANK 595 P
ABJR MISS HANK 1148 P

LT BLUE MOUNTAIN 1041 PLD
VPI MISS TRADITION 321A
VPI MISS TRADITION 011X

DOB 9/11/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	10.0	-2.1	80	146	25	7.3	64	2.3	.90	.87	47	.93	.027	.34	292.3	-.41	-.03		-.57				
Act.		80	832	1307				39.1				15.9	.14	2.70		23.3	4.08	5.62	-2.27	6	6	6.5	
Ratio		96	126	112				103				113	100	127		19	53		2				115

Bocephus will be one of the bulls leading us into the future as we pursue more feed efficient cattle. He has the best efficiency of his contemporary group! EFFICIENCY = PROFIT! Now for EPDs. We began to get phone calls about Bocephus the day his Genomic EPDs revealed his amazing curve bending potential. "CALVING EASE PACKAGE" He has 6 EPDs in the top 1% of the breed. You will search long and hard to find this much growth and carcass quality in a calving ease package. Plenty of length and thickness included. He has the excellent foot and leg structure of his sire and dam. The 321 donor contributes 3 bulls and 3 heifers in this sale and they are all excellent individuals. #2 bull on test for Ribeye (113 Ratio). His maternal brother Rebar was #1. Bocephus has a 127 IMF Ratio. His full sister sells as Lot 36, Top 20% CE and BW, Top 1% WW, YW, SC, TSI, CW, MB. Retaining 1/4 semen interest with the option of adding 25% to the purchase price and owning 100% of Bocephus.

10

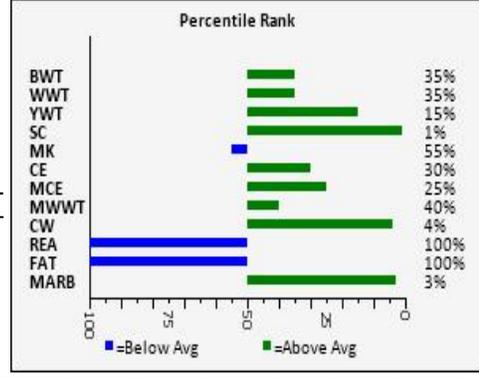


DESCO LUNCH BOX 117 PLD EM966547 Polled

LT RIO BLANCO 1234 P
VPI FREE LUNCH 708T
VPI MISS DUCHESS 404 P

WCR OZ SIR DUKE 1155 PET
WCR MS DUKE 6025 P/S
WCR MISS BOND 8120 P

DOB 8/10/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	8.2	-1.0	62	120	23	8.1	54	2.0	1.02	.95	37	.42	.040	.28	263.4	-.39	-.10		-.28				
Act.		82	973	1333				41.4				15.3	.20	2.96		23.0	3.11	7.03	1.52	6	8	6.4	
Ratio		88	100	100				100				100	100	100		30	68		14				100

This bull had an amazing 4.21 ADG from birth to weaning! Then on test has the second best feed conversion in his group. Lunch box is solid muscle. Four full brothers sell and their dam is a Diamond Dam of Distinction who was productive until the age of 16. Lunch Box was the #3 bull for Ribeye and #5 bull for IMF on test. Retaining 1/4 semen interest with the option of adding 25% to the purchase price and owning 100% of Lunch Box.

11

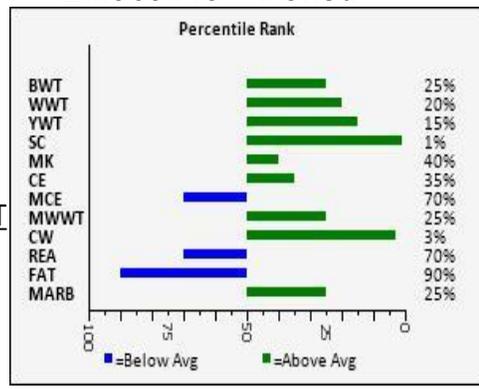


DESCO SIR LUNCH 122 P EM969148 Polled

LT RIO BLANCO 1234 P
VPI FREE LUNCH 708T
VPI MISS DUCHESS 404 P

WCR OZ SIR DUKE 1155 PET
WCR MS DUKE 6025 P/S
WCR MISS BOND 8120 P

DOB 9/09/2021 PAC



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	7.6	-1.8	65	120	25	4.2	57	1.8	1.12	1.06	38	.63	.030	.17	261.9	-.39	-.03		-.29				
Act.		75	669	1139				36.5				15.5	.16	2.03		23.8	4.23	5.31	-.93	7	6	5.6	
Ratio		91	102	98				96				110	114	95		22	51		12				99

Another Free Lunch full brother out of the Diamond Dam of Distinction! You will notice the consistent thickness with these Free Lunch sons that has made them so popular. Since semen is scarce you will not find many more Free Lunch sons up for auction in the future.

12

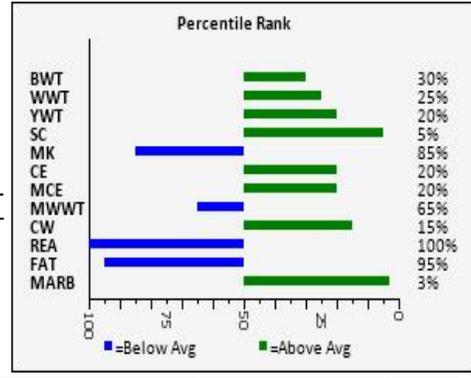


DESCO LUNCHABLE 124 P ET EM969171 Polled

LT RIO BLANCO 1234 P
VPI FREE LUNCH 708T
VPI MISS DUCHESS 404 P

WCR OZ SIR DUKE 1155 PET
WCR MS DUKE 6025 P/S
WCR MISS BOND 8120 P

DOB 9/16/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	9.6	-1.3	64	118	17	8.7	49	1.5	1.08	1.00	31	.30	.036	.30	261.2	-.27	-.02		-.13				
Act.		85	672	1138				36.8				13.3	.13	1.78		24.8	4.01	6.01	.79	6	6	4.4	
Ratio		103	102	98				97				94	93	84		43	47		53				78

Another Free Lunch full brother. He will be one of the more moderate frame size bulls in the sale with that amazing Free Lunch thickness. Free Lunch has worked very well for Fink Beef Genetics. Their temperament is an valuable asset.

13



DESCO LUNCH HOUR 126 PLD EM968006 Polled

LT RIO BLANCO 1234 P
VPI FREE LUNCH 708T
VPI MISS DUCHESS 404 P
WCR OZ SIR DUKE 1155 PET
WCR MS DUKE 6025 P/S
WCR MISS BOND 8120 P

DOB 9/16/2021 PAC

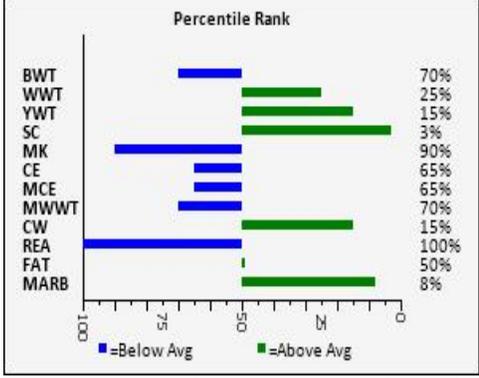


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Lots of growth in another Free Lunch out of the Diamond Dam of Distinction. He had 121 WW ratio with 3.23 ADG and a 111 YW ratio with a 3.1 ADG. He is just as thick as his 3 full brothers.

14



DESCO SIR BENAIAH 125 PLD EM969149 Polled

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X
EC DONE DEAL 5052 PLD
EC DELLA 553 PLD
EC RADIANCE 173 PLD

DOB 9/21/2021 PAF

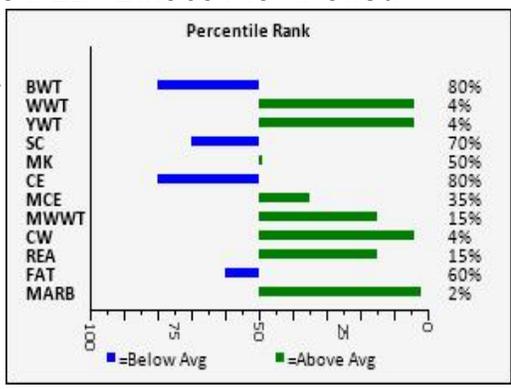


Table with 22 columns (ce, bw, ww, yw, m, mce, Mtl, sc, ud, te, cw, rea, ft, mb, tsi, dmi, adg, f/g, rfi, fa, cs, fs) and 3 rows (EPD, Act., Ratio).

Another Benaiah on Eggleston genetics. Major growth and efficiency here with the highest ADG of all bulls on test and the second highest efficiency in his group. This combination has the growth and carcass quality that we are determined to deliver you on a platter. There is an increasing demand from beef consumers worldwide for this type of carcass quality. Top 4% WW, YW, TSI, CW. Top 2% MB

15



DESCO LEAF 138 P M969152 Homozygous Polled

OW LEAD TIME 6294 PLD
JMAR LEAD TIME 1L16
VPI NANCY 311A
EC DONE DEAL 5052 PLD
EC DELLA 553 PLD
EC RADIANCE 173 PLD

DOB 10/18/2021 PAF

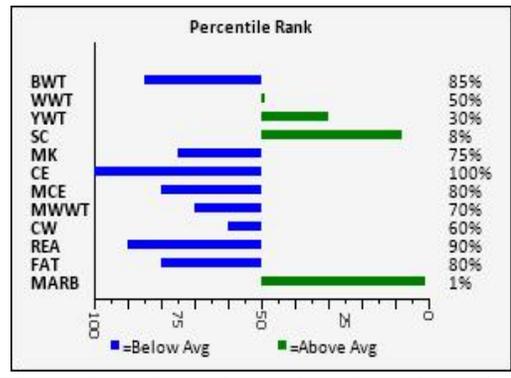


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You will be impressed with the thickness and balance of the JMAR Lead Time son. He is one of the younger bulls on test but he did not get left in the dust with a 110 WW ratio and 108 YW Ratio. He was #3 in his group for feed efficiency with above average ADG. There is plenty of carcass quality coming from both sides of the pedigree with a 110 Rib Eye ratio and MB EPD in the top 1% of the breed.

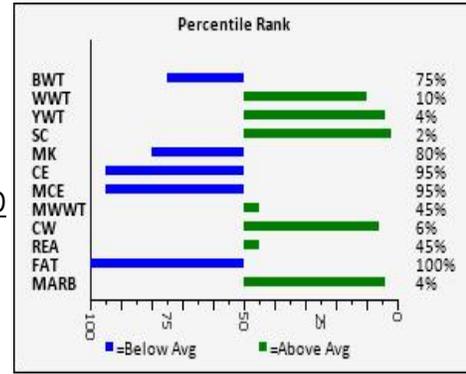
16



DESCO SIR REWARD 128 P EM969150 Polled

LT LEDGER 0332 P
 LT REWARD 2348 PLD
 LT LIBERTY 9293 POLLED
 LT BLUE MOUNTAIN 1041 PLD
 VPI MISS TRADITION 321A
 VPI MISS TRADITION 011X

DOB 9/21/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	-0.4	.8	69	132	19	-.2	53	1.7	1.07	.98	36	.73	.056	.28	274	-.13	-.02		-.20			
Act.		93	508	958				34.9				11.9	.10	2.21		19.6	3.09	6.93	-1.43	5	6	5.2
Ratio		111	77	82				92				84	71	104		60	45		36			92

This combination of LT Reward and the 321 cow was a winning match. This bull is feed efficient with a favorable RFI and an above average ADG. Full brother to Lot 17 and 35. EPDs in the top 2% for SC. Top 4% for YW, TSI and MB.

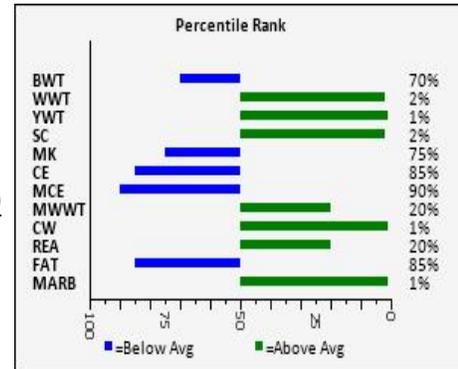
17



DESCO REBAR 137 PLD EM969151 Homozygous Polled

LT LEDGER 0332 P
 LT REWARD 2348 PLD
 LT LIBERTY 9293 POLLED
 LT BLUE MOUNTAIN 1041 PLD
 VPI MISS TRADITION 321A
 VPI MISS TRADITION 011X

DOB 9/29/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	2.3	.6	78	149	20	1.4	59	1.7	1.01	.90	44	.86	.035	.23	293.5	.42	.08		.21			
Act.		108	849	1331				37.7				16.7	.25	2.89		29.1	4.37	6.81	3.55	5	6	6.0
Ratio		100	100	100				100				100	100	100		96	3		90			100

This may be one of the most complete bulls to come from the Desco program to date. Let's start with his flawless phenotype. Its hard to find a bull with this much muscle that is so well balanced. He and his lot 16 and 35 full sibs have excellent feet and legs transmitted from both parents. Rebar has the largest ribey (16.4) of all bulls on test AND the second highest ADG AND is #6 for IMF. He is about as impressive in the EPD department as his Maternal brother Lot 9. Top 1% YW, TSI, CW, MB. Top 2% WW, SC. Retaining 1/4 semen interest with the option of adding 25% to the purchase price and owning 100% of Rebar.



VPI MISS TRADITION 321A Dam of Lots 9, 16 & 17



WCR MS DUKE 6025 P/S Dam of Lots 10, 11, 12 & 13

C² C Squared Cattle Company

We, as seedstock producers, take seriously our responsibility to the beef cattle industry. Our goal is to make genetic improvements to provide better opportunities for breeders. We have strived to produce practical, productive, and profitable genetics to improve the bottom line for beef producers. Charolais genetics can offer tremendous upside to the beef industry through unmatched heterosis as it affects weaning weights and feedlot performance. The genetics in this offering will improve end product value for future generations. Feed efficiency will always affect profit margins in your cowherd and in the feedlot. This offering allows selection of cattle measured for this important trait. We are thrilled to be part of this venue. Thanks to the staff at the WVU and Reyman Memorial Farm for providing us the opportunity to collect the most complete, comprehensive data in the industry.



18



C 2 FORFRONT 2110

EM966856

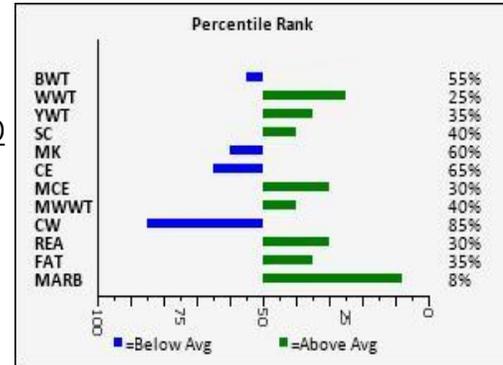
Polled

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

M6 COOL REP 8108 ET
C 2 COOL LADY 3006
ROR MS BIG TOP 5281 P

DOB 8/19/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rft	fa	cs	fs	
EPD	4.8	-.1	64	112	22	7.4	54	1.0			15	.81	.001	.23	256.7	-.49	-.12		-.23				
Act.		90	817	1190				35.7				14.6	.13	2.36		25.2	3.75	5.92	.35	6	7	5.5	
Ratio		100	100	109				100				100	100	100		8	81		29			100	

Lot 18, 19, and 20 are flush brothers out of our elite C 2 Cool Lady 3006 donor. We have the utmost confidence in the Forefront x 3006 mating as it has produced practical and functional cattle over and over again, including our high seller each of the last 2 years. If you want a mainstay at your ranch that throws calves with growth, body, and a good temperament, pick your favorite brother and get started. 2110 is the standout as far as rib shape is concerned. Bold sprung in his rib and deep from the side view, this bull will provide easy doing replacement females and feeder calves that add pounds in every dimension. He cracks open with a 14.9 inch ribeye to sweeten the deal

19



C 2 FOREFRONT 2112

EM966858

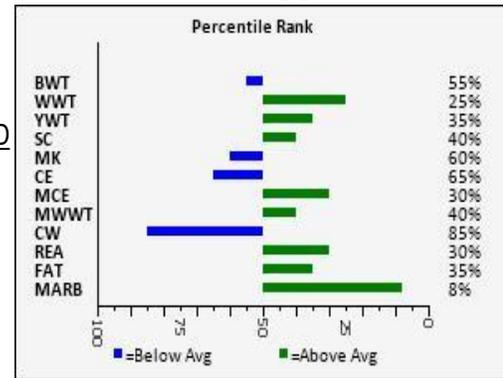
Homozygous Polled

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

M6 COOL REP 8108 ET
C 2 COOL LADY 3006
ROR MS BIG TOP 5281

DOB 8/20/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rft	fa	cs	fs	
EPD	4.8	-.1	64	112	22	7.4	54	1.0			15	.81	.001	.23	256.7	-.50	-.14		-.17				
Act.		75	761	1079				33.3				12.9	.12	1.61		23.3	2.89	7.67	.93	6	5	5.6	
Ratio		100	100	100				100				100	100	100		7	95		45			100	

Forefront 2112 is a true charolais bull with a few extras! He reflects the breed with his explosive hip, strong bone structure, and fast growth curve. He brings a few bells and whistles as well. He is a supremely masculine bull that will offer high libido. He also brings a solid foot and pastern structure that will offer longevity to keep him in his role as your go to herd bull for years to come. Lastly, he brings the lower birth weight genetics that is highly sought after in the charolais breed. He has a natural birth weight of 75 pounds, moderate enough to keep you sleeping good through the night during calving season even with your young and small cows.

20



C 2 FOREFRONT 2113 EM966859 Homozygous Polled

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD
M6 COOL REP 8108 ET
C 2 COOL LADY 3006
ROR MS BIG TOP 528

DOB 8/21/2021 PAC

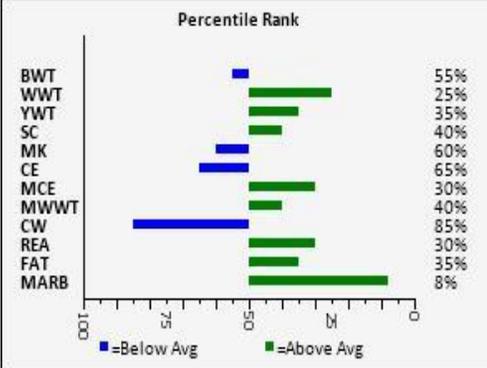


Table with 22 columns (traits) and 3 rows (EPD, Act., Ratio) for C 2 FOREFRONT 2113.

This brother was blessed with all the good looks of the family. He moves like a cat, has a proud posture to his shoulders and neck and head, and carries a wheelbarrow full of bull characteristics with his big nuts, butts, and guts.

21



C 2 FOREFRONT 2122

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD
M6 COOL REP 8108 ET
C2 MS TANYA 5007
C 2 MS GAIN & GRADE 3021 ET

DOB 9/19/2021 PAF

M969853 Polled

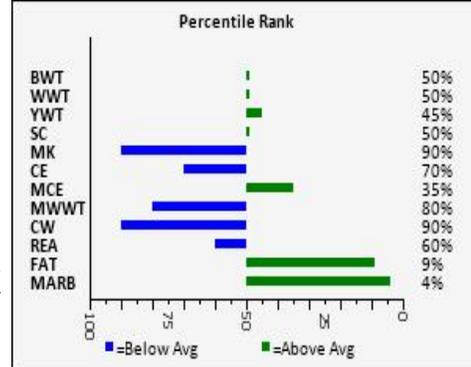


Table with 22 columns (traits) and 3 rows (EPD, Act., Ratio) for C 2 FOREFRONT 2122.

An easy going type of bull that is out of one of our original cow families. His dam, 5007, is a perfect uddered Cool Rep daughter that comes from the original Tanya cow family from M6 Charolais in Texas.

22



C 2 FOREFRONT 2134 M969854 Homozygous Polled

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD
HCR LEDGER 2509 PLD
C2/WRC BLUE RIDGE DUTCHESS 623
WRC BLURE RIDGE DUTCHESS 129

DOB 10/11/2021 PAC

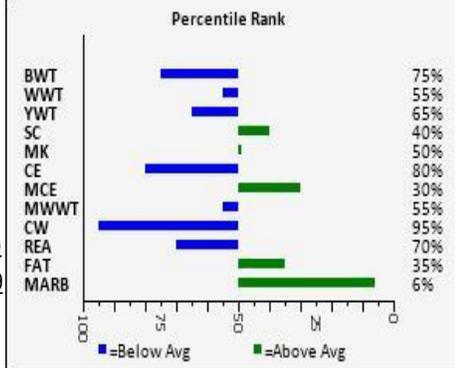


Table with 22 columns (traits) and 3 rows (EPD, Act., Ratio) for C 2 FOREFRONT 2134.

Forefront 2134 is an eye appealing calf with great angles through his shoulder, hip, and legs. He has always been a burly type of calf that anyone on pasture visits would notice for his balanced phenotype.

23



C 2 FOREFRONT 2138 M969855

Homozygous Polled

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD
ONE PENNY BLANCO FLASH 6424
C 2 COOL LADY 6003
C 2 COOL LADY 3006

DOB 10/24/2021 PAC

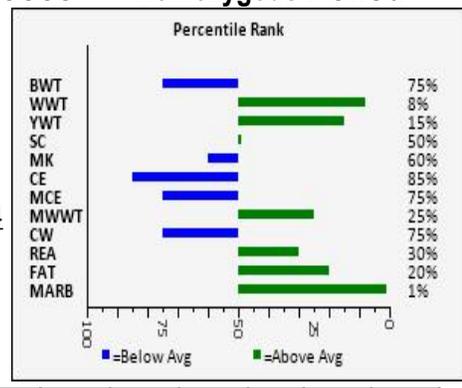


Table with columns for EPD, Act., Ratio and various traits (ce, bw, ww, yw, m, mce, Mtl, sc, ud, te, cw, rea, ft, mb, tsi, dmi, adg, f/g, rfi, fa, cs, fs).

Serious breeding piece for all the terminally oriented operations! Stacks the excellent growth and marbling bulls One Penny Blanco Flash and Forefront in his pedigree. He comes with a 110 WW ratio and 104 YW ratio, both of which are the best of his contemporary group. Against the whole breed of Charolais cattle, he ranks in the top 15% for YW, 8% for WW, 7% for TSI, and top 1% for Marbling. If you make a living off of selling calves at weaning or selling cattle on the rail, you need to find this guy on sale day.

24



C 2 PATTERN 2140

M969881

Homozygous Polled

WRC PATTERN X962
WRC PATTERN 704
WRC BLUERIDGE DUTCHESS 401
EC FOREFRONT 8066 PLD
C 2 COOL LADY 7004
C 2 COOL LADY 3006

DOB 10/27/2021 PAC

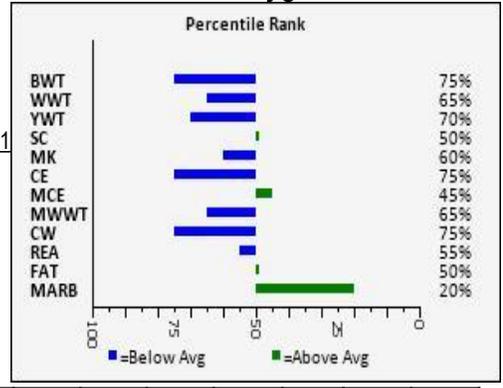


Table with columns for EPD, Act., Ratio and various traits (ce, bw, ww, yw, m, mce, Mtl, sc, ud, te, cw, rea, ft, mb, tsi, dmi, adg, f/g, rfi, fa, cs, fs).

Out of a full sister to lots 18, 19, and 20, it is easy to see why this calf brings the extra attractiveness and soundness to his look. Pattern 2140 offers a streamlined and clean head, shoulder, and hip to help support what he can do as a calving ease bull for you. He may be the youngest bull in the offering, but don't overlook him. We brought him to test because we know what he is capable of for the producers that aren't just looking for the biggest bulls on sale day, but the best bulls.





Caleb, Ashlee, Cruz, & Duke

648 True Road

True, WV 25951

Caleb- 304-445-8382

Ashlee- 304-207-2578

testermancharolaisbeef@gmail.com

We are a Registered Charolais Seedstock operation in Southern West Virginia. Our herd is extensively culled to keep only the best temperament, calving ease, feed efficiency, growth, udder quality, and proven marketable genetics.



We feel that these traits are very important in today's market, and that proven genetics play a very important role in every herd.

We do not sell anything that we wouldn't own ourselves, the bottom 1/3 end up in the slaughter pen for our beef customers.

"If it isn't going to work for us, it will not work for you."

We love talking Charolais so feel free to give us a call or stop by the farm.

25



TNT CHOW HALL 109 P

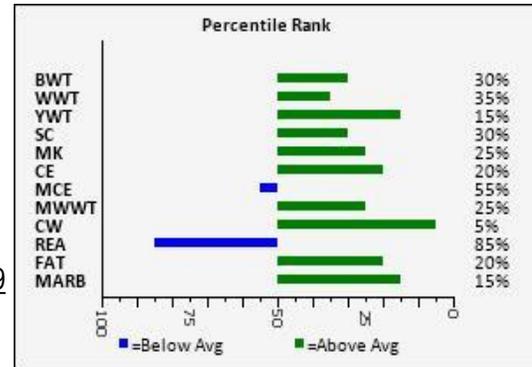
BHD PERSEUS B65 P
M905524 DC/CRJ TANK E108 P
CRJ MS ZYLEN C1587

VPI FREE LUNCH 708T
TX SHOOTING STAR
SUMMIT MS IOWA A119

DOB 9/08/2021

PAF

M957219 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	10	-1.5	61	124	27	5.3	57	1.1	1.04	.91	36	.57	-.007	.20	270.8	-.13	.03		-.30				
Act.		75	739	1277				37.6				15.3	.16	2.51		24.6	3.4	7.3	.42	6	6	6.8	
Ratio		100	100	100				100				100	100	100		60	13		10			100	

TNT Chow Hall 109 May be the best DC/CRJ TANK E108 P Tank son to sell this year! He's unique, adding a big middle and a powerful look. His mother is a stout made, beautiful uddered VPI Free Lunch daughter. Large ribeye scan with maintained marbling. Sound footed, large scrotaled, with a who's-who of pedigree. 109 is docile with added muscle shape. Stellar EPD profile boasting low bw, high performance and high marbling. An exciting bull to take your program to the next level!

26



TNT OFF THE CHART J16 P

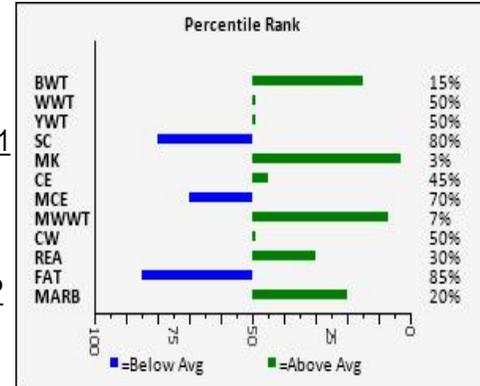
FF ABOUT TIME Y07
OW LEAD TIME 6294 PLD
OW MISS SANDCREEK 3031

WC UNCHARTED 7328 P
TNT BRENDA G1909 P
TNT SUGAR SHAKER A52 P

DOB 9/04/2021

PAF

M967996 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	6.9	-2.6	59	105	34	4.3	63	.6	1.20	1.14	22	.79	.025	.20	250.9	-.34	-.01		-.62				
Act.		70	733	1195				38.1				12.7	.30	3.61		22.0	3.09	7.67	-.93	6	6	5.3	
Ratio		91	100	100				100				100	100	100		35	39		2			100	

J16 is out of one of the most attractive, best uddered females in the breed. His Wc Uncharted dam is deep ribbed, long bodied with a feminine front. She is now in our donor pen. Combined with the low birthweight leader OW Lead Time and you have a unique bull to cover your purebred heifers. Correct in his pattern, wide topped with extra style and performance. Large scrotaled, sound footed, with a small attractive head. High marbling bull scanning 3.62 inf. Let TNT Off the Chart J16 create a uniform set of replacements for you.



TX SHOOTING STAR Dam of Lot 25



TNT BRENDA G1909 P Dam of Lot 26



TNT ANTHEM J12

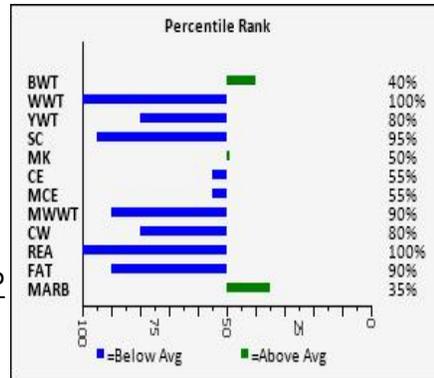
WCR ICON 756 P
LEACHMAN ANTHEM P022G
LCOC MISS PROMISE BP028

MCF BOHANNON 305A
TNT ATHENA'S TREASURE 802 P ET
LT ATHENA'S TREASURE 6188 P

DOB 7/29/2021

PAC

M966994 Scurred



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rft	fa	cs	fs
EPD	5.8	-.8	40	94	23	5.3	43	.4	1.27	1.29	16	.32	.030	.14	241.3	-.78	-.21		-.22			
Act.		89	847	1313				37.7				13.9	.17	2.04		23.1	1.28	16.4	.95	5	6	6.6
Ratio		110	100	100				100				100	100	100		2	99		30			100

J12 is a commercial cattlemen's dream. Powerfully made in a stout structure. Good feet and leg structure and tremendous length of body. His sire, Leachman Anthem, is an up and coming Rockstar in the Charolais breed. Combining low birthweight, growth, carcass and performance. J12's dam is out of MCF Bohannon, the 2014 National Champion bull and LT Athena's Treasure 6188. She was our original donor from the Lindskov-Thiel Ranch. Sound, large scrotaled, scale crushing calves is what you should expect from TNT Anthem J12's progeny.



CLARK CHAROLAIS

The Clark Charolais herd was started in 1968 and our present day herd is heavily based on one of the original females that excelled for performance. Her family continues to earn the right to stay in the program all these years due to these traits. We strive to breed correct, good looking performance cattle and we are also paying close attention to fertility and carcass traits. Our cattle are ready to work hard for you.



28

DC MAGIC BLEND P

M969646

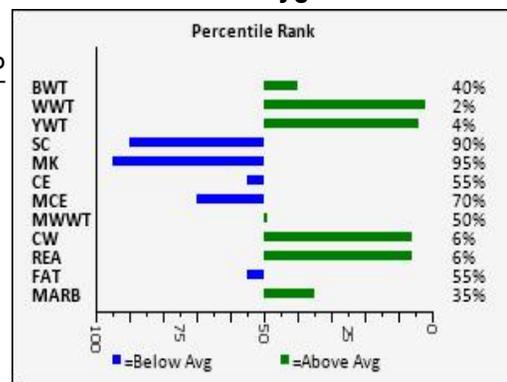
Homozygous Polled

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X

CMC COLONEL 514 P
DC LADY CAROLINE P
DC LADY MICKY P

DOB 9/23/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	5.8	-.8	76	132	14	4.0	52	.5	1.12	1.03	35	.96	.012	.15	272.3	-.25	-.08		-.07				
Act.		93	685	1051				33.6				14.5	.10	1.99		23.2	2.93	8.21	1.81	5	6	5.8	
Ratio		105	105	100				93				105	83	95		45	66		60				107

Attractive, thick beef bull from end to end. He is Homozygous Polled and Sired by JMAR Benaiah and out of a top young cow. Weaning and Yearling EPDs in the top 2% and 4% of the breed with a Birth Weight EPD in the top 40% of the breed. On the carcass side, his CW and Rib Eye are in the top 6% and his marbling is in the top 35%. Here is a bull that would work great to add muscle and growth to a calf crop while moderating their size.



29

DC SILVER GUN P

M969655

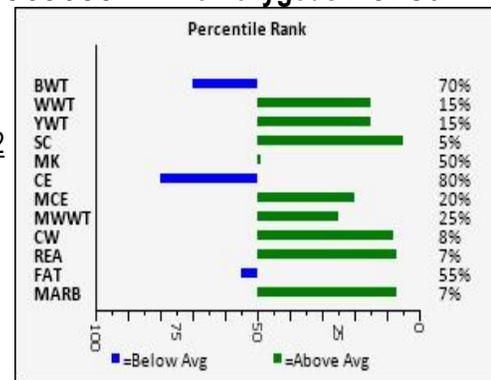
Homozygous Polled

IQCR SILVER GUN Y31P
WCF MR SILVER GUN 467
WCF MISS FASTTRACK 012

LT BLUE VALUE 7903 ET
DC BLUE BELLE P
DC DAKOTA BELLE

DOB 8/29/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	2.9	.6	67	121	23	8.9	57	1.5	1.41	1.40	34	.95	.012	.24	264.3	-.23	-.02		-.25				
Act.		94	606	1030				35.9				12.5	.12	2.53		18.3	4.01	4.58	-2.45	6	6	4.7	
Ratio		109	93	98				99				90	100	121		50	45		20				87

A very smooth made son of one of the top performance bulls in the US, WCF Silver Gun 467. Dam is a very feminine LT Blue Value daughter. Lot 29's EPDs are in the top 15% for Weaning, Yearling, and TSI and his carcass EPDs for Rib Eye and Marbling are in the top 7% of the breed. Homozygous Polled to take the horns off of anything. Everything you need for a successful calf crop.



30



BC BLUE REWARD P

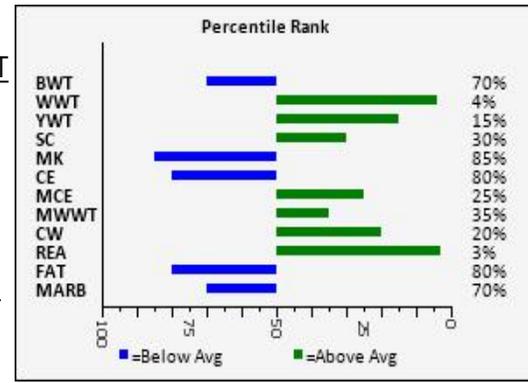
M969645 Polled

LT BLUE VALUE 7903 ET
DC BLUE RIDGE
DC SMOKIN LADY P

LT REWARD 2348 PLD
BC CLASSIC REWARD P
RE-CF MS CLASSIC 964

DOB 10/17/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	2.8	.7	74	121	18	8.0	55	1.1	1.30	1.25	28	1.02	.023	.07	257.1	-.44	-.06		-.41				
Act.		84	748	1084				39.2				14.6	.13	1.78		21.5	3.28	6.72	-.57	5	6	5.7	
Ratio		94	115	103				108				105	108	85		14	60		5				106

This is the bull that has done the most things right in his contemporary group as he was the lowest birthweight, highest weaning and yearling weight bull in the mix. He's also the best scrotal bull in his contemporary group and passed his semen test prior to a year of age. Lot 30's dam is a powerful, deep bodied cow that is moderate framed and well muscled. Use him to put pounds and quality in your calf crop, but know that he will have some powerful daughters if you want to retain some females.



CLARK CHAROLAIS



The Clark Charolais herd was started in 1968 and our present day herd is heavily based on one of the original females that excelled for performance. Her family continues to earn the right to stay in the program all these years due to these traits. We strive to breed correct, good looking performance cattle and we are also paying close attention to fertility and carcass traits. Our cattle are ready to work hard for you.



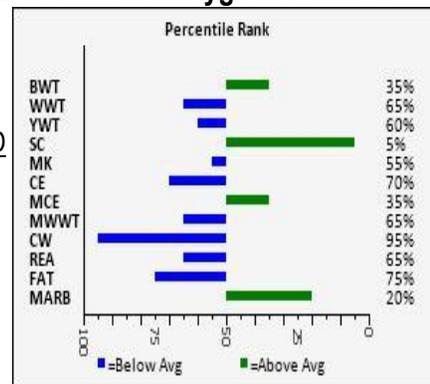
DC STARLET SANDY P F1322477

Homozygous Polled

FF ABOUT TIME Y07
OW LEAD TIME 6294 PLD
OW MISS SANDCREEK 3031 PLD
M6 NEW STANDARD 842 P ET
DC STARLET P
SCC LADY MAC K118

DOB 8/24/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	4.3	-1.1	55	101	23	7.0	50	1.5	1.25	1.25	10	.65	.021	.18	246.2	-.40	-.06		-.43			
Act.		90	618	924								11.8	.19	3.46		19.7	2.73	6.45	-.55			6.5
Ratio		99	95	100								100	100	100		21	60		4			100

This is an absolutely beautiful heifer that has plenty of size and growth. Her momma is a great milking New Standard cow so I would expect that to pass directly to Lot 31. The lot 31 heifer excelled in the feed efficiency part of our test as she ranks as one of the very top Feed:Gain and RFI females in the group. A homozygous polled Lead Time and top 20% for Marbling EPD to top it all off.

32



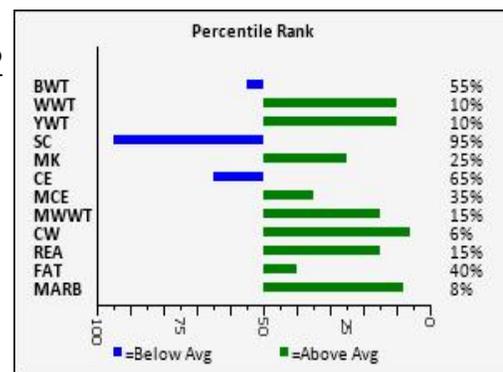
DC DELILAH P

EF1322495 Homozygous Polled

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X
EC DONE DEAL 5052 PLD
EC DELLA 553 PLD
EC RADIANCE 173 PLD

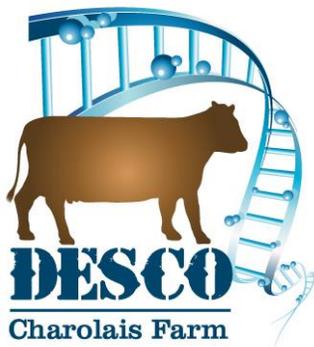
DOB 9/19/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	4.4	-.1	69	125	27	7.3	61	.4	1.01	.97	35	.90	.005	.24	268.6	-.28	-.05		-.28			
Act.		94	594	895								10.1	.15	3.64		19.3	2.73	6.77	-.46			5.8
Ratio		100	100	100								100	100	100		41	57		14			100

A beautiful, big bodied, moderate JMAR Benaiah daughter. Then add in top 10% for both Weaning and Yearling Weight EPDs, top 6% Carcass Weight and top 8% Marbling EPDs. This one is made to produce carcass cattle. However, the big extra you get with Benaiah daughters is great udders and milking ability in the ones that are in production. Lot 32 also has added bonuses of being at the top end of the feed efficiency part of our test and she is Homozygous Polled.



Our mission at Desco Charolais Farm is to produce genetics with the best growth and carcass traits available while maintaining ideal calving ease and maternal ability. We do this by acquiring females in the breed that are outliers in those traits and using Advanced Reproduction Technology to propagate those genetic traits with complimentary sires. If you are serious about beef production, we think our genetics will increase your profitability.



keystoneembryo.com

Genesis 120

KEYSTONE
embryo transfer LLC

Daren E. Statler, DVM
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Over 17 years of experience in embryo collection and transfers.
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33

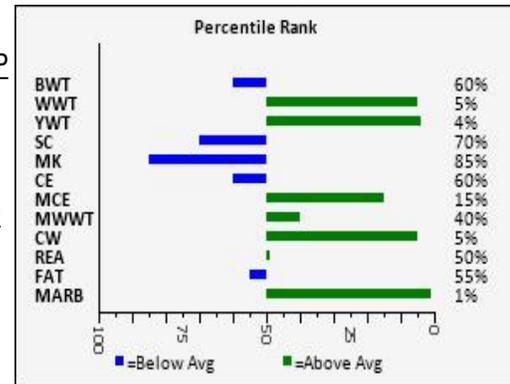


DESCO MS BENAIAH 114 EF1321604 Homozygous Polled

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X

EC DONE DEAL 5052 PLD
EC DELLA 553 PLD
EC RADIANCE 173 PLD

DOB 8/11/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	5.3	.1	73	132	18	9.2	54	.7	1.39	1.27	36	.71	.012	.34	276.3	-.44	-.07		-.24			
Act.		75	667	1030								12.4	.18	4.65		20.8	2.76	6.73	.75			7.7
Ratio		100	100	100								100	100	100		13	62		25			100

If you like frame (7.7) and style then this lady will impress! Interesting sire stack of Benaiah and Done Deal. Actual birth weight or 75# and then a 667 Adjusted WW for a 2.9# ADG. Her 12.8 inch Ribeye is the largest of all heifers on test and came in #3 on ADG. Very impressive EPDs in the Top 5% WW, Top 4% YW and Top 1% MB!

34

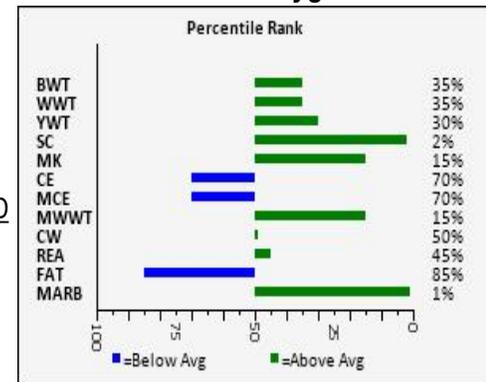


DESCO MS TRADITION 120 P F1321605 Homozygous Polled

FF ABOUT TIME Y07
OW LEAD TIME 6294 PLD
OW MISS SANDCREEK 3031

LT BLUE MOUNTAIN 1041 PLD
VPI MISS TRADITION 321A
VPI MISS TRADITION 011X

DOB 9/02/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	4.2	-1.2	62	113	30	4.1	61	1.7	1.10	1.01	22	.73	.026	.37	262.1	-.22	-.03		-.37			
Act.		83	528	864								10.4	.21	4.24		18.9	2.03	9.74	.42			5.4
Ratio		100	109	100								100	100	100		50	49		6			100

Natural calf of our 321 donor. She has made several friends in WV with her feminine style. This is one of the more moderate framed 321 calves. EPDs Top 2% SC and Top 1% MB! CALVING EASE PACKAGE!

35

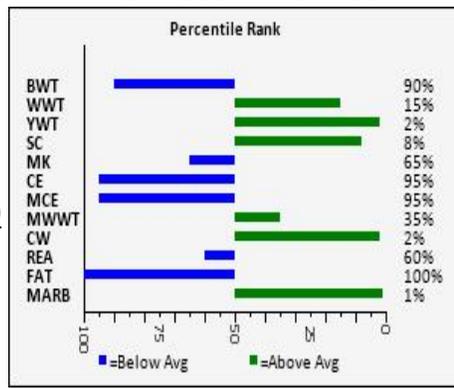


DESCO MISS TRADITION 134 EF1321608 Horned

LT LEDGER 0332 P
LT REWARD 2348 PLD
LT LIBERTY 9293 POLLED

LT BLUE MOUNTAIN 1041 PLD
VPI MISS TRADITION 321A
VPI MISS TRADITION 011X

DOB 9/23/2021 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	-0.8	1.9	68	137	21	-0.6	55	1.4	1.04	.96	40	.66	.041	.37	282.4	.13	.04		-0.15				
Act.		90	597	959								11.3	.18	3.97		21.0	2.91	7.4	.53				6.4
Ratio		94	94	99								96	113	96		87	8		50				101

Full sister to the Lot 17 Rebar bull. You will notice the consistent style and balance of these maternal sibs out of out 321 donor (3 sons and 3 daughters). #2 heifer on test for ADG. EPDs in the top 3% YW, 2% CW and TSI and top 1% MB.

36

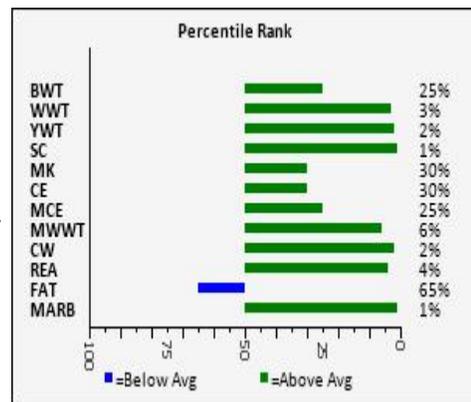


DESCO MISS TRADITION 136 PLD EF1321609 Polled

M6 NEW STANDARD 842 P ET
ABJR NEW HANK 595 P
ABJR MISS HANK 1148 P

LT BLUE MOUNTAIN 1041 PLD
VPI MISS TRADITION 321A
VPI MISS TRADITION 011X

DOB 9/25/2020 PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	8.6	-1.6	76	138	26	8.1	64	2.2	1.01	1.00	40	1.00	.015	.37	286	-0.20	-0.02		-0.41				
Act.		93	587	926								11.6	.12	3.39		19.8	2.58	8.0	.0				5.8
Ratio		97	92	96								98	75	82		53	45		5				100

Full sister to the Lot 9 Bocephus bull. This lady has an excellent temperament that matches her phenotype. Her dam has excellent foot and leg structure that she transmits to her progeny. We feel that New Hank contributed his fair share of structural correctness to this package as well. Both this lot and her brother got their sire's calving ease and low BW. EPDs in the Top 4% RE, Top 3% WW, Top 2% YW and CW, and Top 1% SC, TSI and MB! "CALVING EASE PACKAGE!!!"



VPI MISS TRADITION 321A
Dam of Lots 34, 35 & 36



Caleb, Ashlee, Cruz, & Duke

648 True Road

True, WV 25951

Caleb- 304-445-8382

Ashlee- 304-207-2578

testermancharolaisbeef@gmail.com

We are a Registered Charolais Seedstock operation in Southern West Virginia. Our herd is extensively culled to keep only the best temperament, calving ease, feed efficiency, growth, udder quality, and proven marketable genetics.



We feel that these traits are very important in today's market, and that proven genetics play a very important role in every herd.

We do not sell anything that we wouldn't own ourselves, the bottom 1/3 end up in the slaughter pen for our beef customers.

"If it isn't going to work for us, it will not work for you."

We love talking Charolais so feel free to give us a call or stop by the farm.

37



TNT SHEILA'S PROMISE J13 P

F1319585 Polled

WCR ICON 756 P

LEACHMAN ANTHEM P022G

LCOC MISS PROMISE BP028

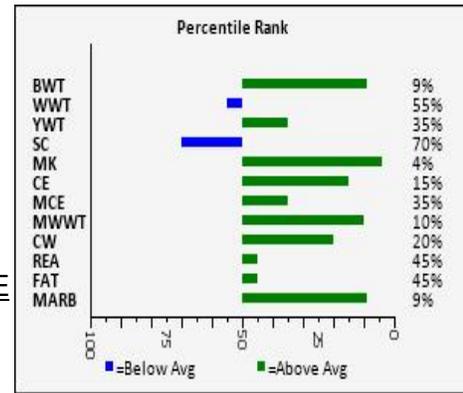
LCOC TOP GRADE P043R

JMAR SHEILA 1T41

A2Z BEYOND SHEILLAS PRIDE

DOB 7/21/2021

PAF



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	11.2	-3.2	56	111	33	7.2	61	.7	1.17	1.18	29	.72	.006	.23	260.4	-.48	-.09		-.31			
Act.		65	622	904								11.6	.27	5.14		17.4	2.36	7.06	-1.68			6.0
Ratio		88	100	100								100	100	100		9	70		9			100

Here is your first opportunity to own a Leachman Anthem female! And she is special! TNT SHEILA'S PROMISE J13 stacks Leachman breeding on top and bottom of her pedigree. Low birthweight, high marbling, and great feed efficiency exemplifies the program Lee Leachman has created. J13's dam is the heaviest milking female we have ever owned. Setting you up for success with this heifer. Beautiful head, square bodied, moderate framed, with extra style and "the look."



C² C Squared Cattle Company

We, as seedstock producers, take seriously our responsibility to the beef cattle industry. Our goal is to make genetic improvements to provide better opportunities for breeders. We have strived to produce practical, productive, and profitable genetics to improve the bottom line for beef producers. Charolais genetics can offer tremendous upside to the beef industry through unmatched heterosis as it affects weaning weights and feedlot performance. The genetics in this offering will improve end product value for future generations. Feed efficiency will always affect profit margins in your cowherd and in the feedlot. This offering allows selection of cattle measured for this important trait. We are thrilled to be part of this venue. Thanks to the staff at the WVU and Reyman Memorial Farm for providing us the opportunity to collect the most complete, comprehensive data in the industry.



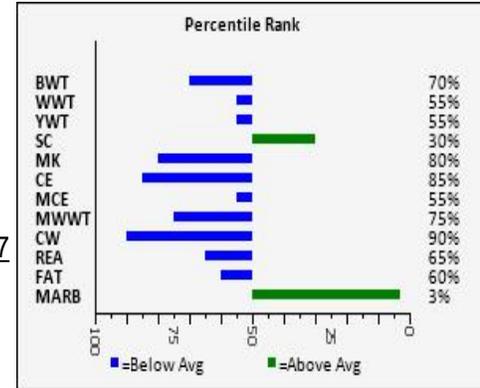
C 2 DUTCHESS 2119

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

HCR LEDGER 2509 PLD
C2/WRC BLUE RIDGE DUTCHESS 617
WRC BLUE RIDGE 219

DOB 9/11/2021 PAC

F1322781 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	1.5	.7	56	103	19	5.6	47	1.1			12	.60	.014	.25	247.7	-.33	-.10		-.19			
Act.		83	647	892								10.5	.22	4.7		17.9	2.31	7.35	-.53			6.7
Ratio		108	98	97								97	110	93		36	69		40			118

Dutchess 617 has really made a name for herself at our place for producing cattle with hip and sexually in tune phenotypes. This sweet fronted and stout featured Forefront daughter is one more for the record. 617 drops a pretty udder each year and is always one of the first in line to calve each fall. A mark of the type of females we wish to keep producing. Use 2119 to continue this legacy and produce bulls and replacement females that are sure to impress.



C 2 DUTCHESS 2124

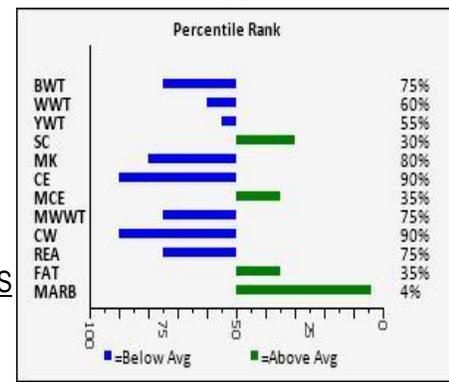
RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

HCR LEDGER 2509 PLD
C2/WRC BLUE RIDGE DUTCHESS 622
WRC BLURE RIDGE DUTCHESS

DOB 9/24/2021 PAC

F1322780

Homozygous Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	.7	.9	56	103	19	7.0	47	1.1			12	.72	.000	.31	251.4	.14	-.03		.17			
Act.		83	627	896								11.7	.16	5.38		20.9	2.51	8.4	2.23			4.5
Ratio		107	95	97								109	80	107		87	52		88			79

We strive to bring cattle that can move the needle as far as the balance of terminal and maternal traits go, and 2124 is a representative of that. Sharp lines with a long elegant spine, perfect angles down to the ground with ideal pastern and foot placement. She's the 3rd calf out of our best milking ledger granddaughter 622, and once again was one of the earliest calving females in her contemporary group, consistent fertility! The greatness doesn't stop there, she also scanned with the largest REA in her contemporary group AND the highest %IMF. Finding an outlier for both those traits at once is rare, finding that and a phenotype like hers is unheard of.

40



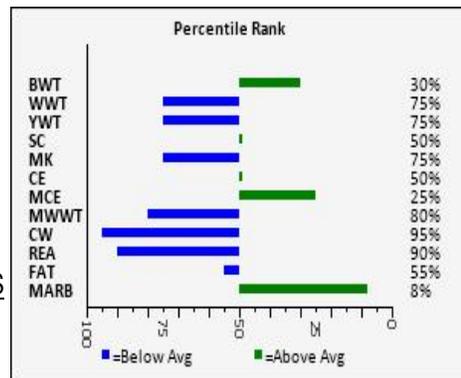
C 2 DUTCHESS 2127

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

HCR LEDGER 2509 PLD
C2 BLUE RIDGE DUTCHESS 814
WRC BLUERIDGE DUTCHESS

DOB 9/24/2021 PAF

F1322804 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	6.1	-1.5	53	96	20	7.9	46	1.0			6	.58	.013	.24	244.5	-.09	-.05		-.12				
Act.		70	635	873								11.1	.24	4.97		18.7	2.51	7.62	.11				5.9
Ratio		94	96	95								103	120	99		64	58		54				103

2127 hits you hard when you find her sharp fronted and deep flanked silhouette in the pen. She carries that attention when you view her from behind too. She is wide through her stifle, has a powerful hib, and bold sprung rib. Out of a great family, we use her dam's full brother as our main man in the commercial herds. Comes with the second biggest ribeye area of our heifer group along with high marbling and low birthweight EPDs.

41



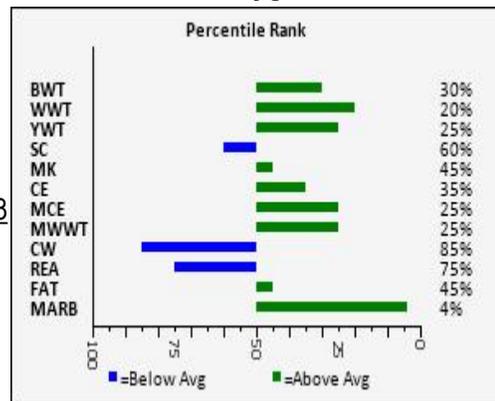
C 2 LADY 2130

RAILE 2250 T077
EC FOREFRONT 8066 PLD
EC LADY ASSET 8066 PLD

FINK GOLD STANDARD 0153
FINK LADY 8922 1184 GS
FINKS LADY 1184 4952 BG

DOB 10/03/2021 PAC

F1322803 Homozygous Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	7.7	-1.5	66	115	24	8.0	57	.9			13	.54	.005	.28	259.5	-.44	-.13		-.09				
Act.		74	754	1010								10.2	.20	5.07		17.5	1.83	9.17	.57				6.1
Ratio		99	114	110								94	100	101		13	88		58				107

Super maternal, soggy, broody. Some terms like this come to mind when checking 2130 out. Her dam came from Fink's in Kansas where we made sure to get as many Gold Standard sired females as we could. The udder, foot, and maternal instinct that her mother 8922 has are what we traveled all the way to Kansas for. EPD highlights include top 30% BW, 25% YW and TSI, 20% WW, and top 4% for Marbling. The theme of great maternal and terminal traits in synergy continues! Last but not least she comes with a puppy dog disposition.

42



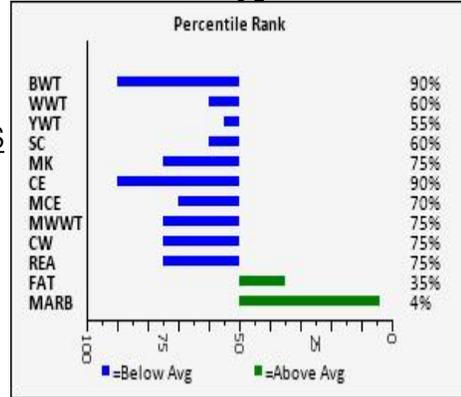
C 2 TANYA 2137

WRC PATTERN X962
WRC PATTERN 704
WRC BLUERIDGE DUTCHESS

EC FOREFRONT 8066 PLD
C 2 TANYA 8007
C 2 TANYA 6016

DOB 10/21/2021 PAC

F1322801 Homozygous Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs	
EPD	.3	2.0	55	103	19	4.2	47	.9			16	.57	.001	.28	248.5	-10	.01		-.22				
Act.		85	640	928								10.5	.18	5.05		20.4	3.06	7.07	.35				5.4
Ratio		114	97	101								97	90	100		85	20		30				95

Out of our young donor, 8007, this heifer brings a lot to the table. Her good temperament, smooth made shoulders, and cow look make her an easy keeping replacement for those who prefer moderate sized charolais cattle that grow. She may be a younger heifer in the offering, but don't shy away from a breeding piece that can improve marbling, disposition, and feet quality. She is also top 4% marbling.

JMAR GENETICS

Jim and Martha Johnson 434-546-2341
www.jmargenetics.com

Our goal is to supply our customers with the most data possible for your business decisions, while balancing all the convenience traits you desire as well. We are focused on producing the best terminal Charolais cattle we can, without compromising phenotype, feet and legs or maternal ability. We strive to produce cattle that first make you money, last in your herd and are enjoyable to own. We hope you find that in our cattle.



43



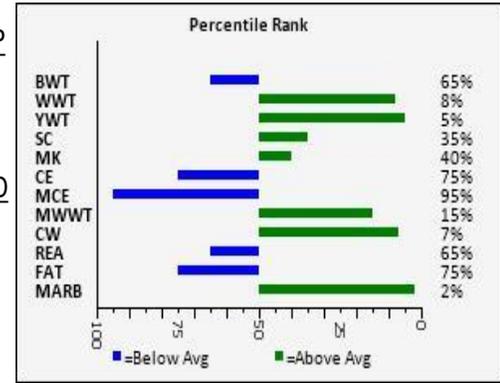
JMAR CAMEO GIRL 17B61

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X

EC FOREFRONT 8066 PLD
JMAR CAMEO GIRL 6R67
JMAR CAMEO GIRL 1C65

DOB 8/30/2021 PAC

F1308955 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	6.2	.2	69	123	2	9.6	56	1.4	.84	.81	40	.95	.025	.32	267.4	-.29	-.07		-.35			
Act.		73	627	848								11.3	.17	3.45		17.1	2.01	9.34	-1.28			5.8
Ratio		92	93	90								101	94	89		41	62		7			89

17B61 is a royally bred female with tremendous EPDs from birth to carcass. She's a Benaiah that goes back to his dam on the bottom side of her pedigree as well. Therefore, she is linebred to the great Cameo Girl 6X. Style and maternal are additional attributes to 17B61. Homozygous Polled by pedigree.

44



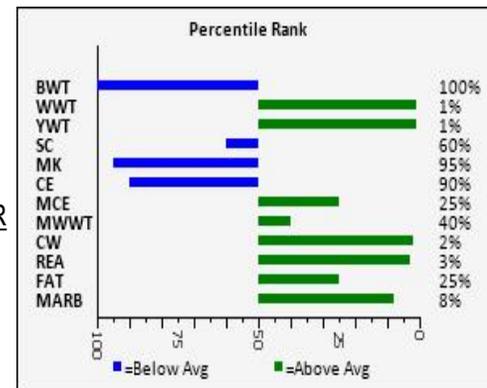
JMAR BELLA 20B41

SCHURRTOP V351 E423 P
JMAR BENAIAH 1E66
VPI CAMEO GIRL 006X

SHELCO MADE EASY 512R
DUBUC BELLA 430B
DUBUC XABINE 3X

DOB 9/27/2021 PAC

F1309727 Polled



	ce	bw	ww	yw	m	mce	Mtl	sc	ud	te	cw	rea	ft	mb	tsi	dmi	adg	f/g	rfi	fa	cs	fs
EPD	.8	3.0	80	145	15	8.0	55	.8	.92	.89	42	1.09	-.004	.24	284.9	-.30	-.06		-.11			
Act.		101	706	1012								12.7	.11	3.13		19.6	2.23	8.47	.79			7.1
Ratio		126	105	108								113	61	81		40	61		55			108

20B41 is the first daughter to sell from our Canadian outcross donor. Here's an outcross pedigree packed with performance. She'll make a tremendous cow that you can breed to nearly any other bull in the breed. Don't miss this opportunity to own a Bella!

Reference Sires



JMAR BENAIAH 1E66 EM879759

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	2.9	1.7	81	151	18	7.9	59	.8
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.20	1.13	49	.99	-.013	.33	294.2	



OW LEAD TIME 6294 PLD

M875419

Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	3.3	-2.5	54	108	28	3.0	54	1.1
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.12	1.07	12	.68	.030	.31	259.5	



FTG MONTICELLO 1806

M875419

Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	8.3	-1.9	75	152	16	10.7	53	1.4
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.31	1.11	56	.82	.071	.43	299.5	



EC FOREFRONT 8066 PLD M818462

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	5.5	-1.8	63	113	22	8.3	53	1.0
	ud	te	cw	rea	ft	mb	tsi	
EPD	.95	.91	8	.66	-.007	.38	264.2	



Reference Sires



LEACHMAN ANTHEM P022G M927348

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	12.2	-4.7	67	135	32	7.0	65	.5
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.12	1.08	42	.81	.034	.23	283.6	



ABJR NEW HANK 595 P

M875188

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	5.0	.6	66	128	24	8.7	57	2.2
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.02	1.03	34	.88	.022	.37	275.9	



LT REWARD 2348 PLD

M820244

Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	2.4	.3	68	143	12	.8	46	1.2
	ud	te	cw	rea	ft	mb	tsi	
EPD	.99	.94	40	.73	.061	.22	286.4	



VPI FREE LUNCH 708T

M736773

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	8.6	-2.2	63	118	14	8.2	45	2.3
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.36	1.18	36	.40	.059	.47	265.8	



Reference Sires



WCF MR SILVER GUN 467

M847860

Homozygous Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	1.8	2.7	97	162	26	9.9	75	2.0
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.45	1.46	60	1.31	-.018	.30	299	



DC/CRJ TANK E108 P

M905524

Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	11.6	-1.6	66	147	33	9.2	65	.6
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.00	.97	46	.77	-.025	.05	293.9	



JMAR LEAD TIME 1L16

M910612

Scurred

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	6.5	-3.5	48	106	28	2.4	52	1.8
	ud	te	cw	rea	ft	mb	tsi	
EPD	.95	.89	21	.66	.032	.37	262.1	



WC INFERNO 6561 P

M897949

Polled

	ce	bw	ww	yw	m	mce	Mtl	sc
EPD	8.2	-1.4	74	132	34	6.2	71	1.2
	ud	te	cw	rea	ft	mb	tsi	
EPD	1.07	1.02	53	.68	.040	.28	272.6	



Terminal Turnkey Solutions

The value of crossbreeding and hybrid vigor has been documented and discussed for years. The problem has been, the recommended crossbreeding systems are complicated and difficult to implement and manage. This led us to develop our “Terminal Turnkey Solutions” or opportunities to maximize heterosis and breed complementarity that are easier to implement, manage and maintain. We hope you agree and as always, we are happy to work with you and answer any questions you might have about how to implement a terminal crossbreeding system into your cowherd.

Summary of Crossbreeding Systems by Advantage and Other Factors

Type of System	Rotation	Advantage	Retained heterosis	Minimum no. of breeding pastures	Minimum herd size	Number of breeds
2-breed rotation	A*B	16	67	2	50	2
3-breed rotation	A*B*C	20	86	3	75	3
Terminal cross with straightbred females ⁴	T*A	8.5	0	1	Any	2
Terminal cross with purchased F1 females	T*(A*B)	24	100	1	Any	3
Rotating unrelated F1 bulls	A*B x A*B	12	50	1	Any	2
	A*B x A*C	16	67	1	Any	3
	A*B x B*C	19	83	1	Any	4

*Advantage is measured in percentage increase (lb of calf weaned per cow exposed).
* Retained Heterosis is relative to F1 with 100% heterosis.

Adapted from: Spangler, 2007

BEEFRESEARCH.CA



As you can see from the chart you get maximum heterosis and maximum pounds at weaning from a terminal crossbreeding system. But what about breed complementarity? An average Charolais bull should provide roughly 29 lbs of weaning weight over an average Angus bull. Therefore, if we add the 24 lbs of heterosis to the 29 lbs from breed complementarity, we get roughly 53 lbs of additional weaning weight on average. If that 53 lbs is worth \$1.50 then that’s an additional \$79.50 per head. If a bull sires 30 calves that’s an additional \$2385 per calf crop and because he’s a terminal bull you could use him for 5 or more calf crops to generate \$11,925 in additional revenue. That’s HUGE!!!

- **Use Charolais bulls and purchase all replacement females.**
This is the simplest terminal solution. You can purchase replacement females that fit your needs and maximize heterosis without maintaining a maternal herd.
- **Use maternal bulls on your 1, 2, and 3 year old cows to generate replacement heifers and use Charolais bulls terminally on the older cows.**
Your youngest cows, should be your best genetically. This allows you to keep replacements out of your best genetics and focus on those maternal characteristics that compliment a terminal program.
- **Use maternal bulls for the first 30 days, then turn in Charolais bulls.**
We would recommend breeding your cows A.I. one round then turning in Charolais bulls to clean up. Either way, A.I. or natural service, you are indirectly selecting for fertility in your replacements. We like this option because A.I. allows you to utilize some of the best genetics available to generate your replacements and with sexed semen you could generate all heifer calves.

JMAR Genetics
812 Patteson School Rd.
Appomattox, VA 24522

Quality Over Quantity
Thursday, October 13th, 2022
Online Only at
DVAuction.com, 9:00 am – 5:00 pm Eastern Time