HIGHWAY 21 GROUP

BULL SALE

MARCH 20, 2023

AT THE RANCH- HANNA, AB

EFFICIENCY VERIFIED GENETICS

PUREBRED CHAROLAIS + SIMM/ANGUS

HIGHWAY 21 GROUP

People, Agriculture, Progress

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Welcome...

Welcome to our second annual, EFFICIENCY VERIFIED GENETICS sale. We want to first thank all our buyers, bidders and attendees for all their support at last years sale. By purchasing a bull, we thank you for joining us in our commitment to further enhance the cattle industry, as many have done before us. Still true to our program, we believe in using the latest technology in genetics, nutrition, data management, and the best tools the industry has introduced to measure results to further enhance the betterment of the industry with our key objectives:

1. To identify superior animals that are efficient in the production process.
2. To produce beef that the industry's customers enjoy eating.
3. To accomplish the above 2 objectives in a sustainable manner for all of agriculture
4. To improve the profitability of those involved in all segments of the industry.

We have been busy since our inaugural sale with one of our main objectives to prepare for the near future by advancing our calf buyback program as well as driving value to our customers for the calves that they produce. With that, we are pleased to **officially announce a cooperative agreement between Southern Alberta Livestock Exchange (S.A.L.E), Charmaine Ranching and Highway 21 Group to promote the use of High Performance and Low Feed to Gain Genetics and offer marketing of progeny through special calf sales.** We anticipate the first qualified calves to market through this sale option by the fall of 2024. In the meantime, we continue to test sire groups so we can guide interested customers to the genetics that will warrant them the best index when marketing. Of course, we will also still offer our in-house calf buy back and retained ownership programs.

Furthermore, this past summer we ramped up our embryo program to accelerate the advancement of our genetics. Through a sync IVF program, as well as the purchase of flushes of elite cows, we successfully added 455 embryos to our tank from 11 cows. What an opportunity this will create for future sales in 2024 and beyond.

We believe in the longevity of this industry and the advancement of prices for the next 2-3 years at a minimum. There is continued reduction in available beef supply to consumers with no reprieve in sight for prices. As of today, WLPIP for fall of 2023 is offering nearly $1800 per head for a steer calf. As we stated last year, and it is still true today, the opportunity in the cow-calf sector is surging forward, backed by an impressive worldwide demand on quality beef and the potential for lower feed costs for the winter of 2023. The cow-calf sector is destined to capture record margins per head that currently exist throughout other sectors of the value chain.

As cornerstones to our program, we always keep in check the foundations of a functional cowherd, such as calving ease, feet, and udders. We then couple this with accurately tested and recorded data for pedigrees, efficiency, performance, and quality as well as a supplying full disclosure on our progeny through our HerdTrax links to supply the industry with all the information they could want to select genetics that will work for them with the click of a button.

In our opinion, Charolais cross calves have always been superior in the feed yard for performance and yield, which the current auction premiums would suggest the same. Charolais do a tremendous job of complimenting our Simm/Angus commercial cows, and we are confident they will yours, no matter what your breed. Not to be outdone, our Simm/Angus bulls are backed by years of extensive selection for only the best progeny from our measured attributes. New this year, we have added a Hybrid Index score to these bulls, to allow buyers to capitalize on maximizing the benefits of heterosis.

We take it seriously when we must select the best genetics for ourselves, and you, our customers from within our herd and other seedstock producers. When we are the ones "shopping," our focus in on breeders who exert an overall attention to doing the right thing as well as the integrity of the information they supply. For example, we always look for the calf scale for accurate birthweight recording. In saying that, we aren't afraid to represent that all our calves are weighed. There is no doubt that our cows are generally in better flesh condition than the average, especially the ones we purchase late in the year from dispersal sales, and as such, we feel that this drives up our birthweights overall compared to the average, and we accept that, good or bad. Furthermore, with our genetic selection, we focus on cattle with length and depth whereas any increased birthweight is spread over a longer animal to aid in calving ease.

The journey in producing seedstock is one with perpetual improvement as new technology is always available to help advance the speed and accuracy of progress. For this reason, if you stop by the bull pen, we are always as excited to show you what next years bull pen looks like to compliment this one. If we are striving forward in the right direction for our customers, it is hard not to always dream that next year's progeny is even better than this years.

In closing, we are thankful that you have expressed interest in our program, and we hope you will join us to further improve and capture all the efficiencies to further enhance this great industry.

A special thanks to all our staff at Highway 21 Group and the Hanna ranch for pulling together everyday to continue to make this opportunity possible.

Highway 21 Group
Ed, Linda, Lyle, Amanda, and Shannon Miller

SALE DAY INFORMATION

AUCTIONEER...

Chris Poley	T Bar C Cattle Co. Ltd.	306-220-5006

SALE STAFF...

Ringmen

Shane Michelson	T Bar C Cattle Co. Ltd.	403-363-9973
Ben Wright	T Bar C Cattle Co. Ltd.	519-374-3335
Levi Rimke	T Bar C Cattle Co. Ltd.	204-851-4515

SALE DAY PHONES...

Shane Michelson	T Bar C Cattle Co. Ltd.	403-363-9973
Ben Wright	T Bar C Cattle Co. Ltd.	519-374-3335
Levi Rimke	T Bar C Cattle Co. Ltd.	204-851-4515
Ed Miller	Highway 21	403-651-8637
Lyle Miller	Highway 21	403-888-3973
Scott Brady	Highway 21	403-857-9703
Phillip Hofer	Ranch Manager	403-363-0466

ACCOMODATIONS...

Canalta Hotel Hanna	403-854-2400
Travelodge Hanna Canada Grey	403-854-4471

SALE MANAGEMENT...

T Bar C Cattle Co. Ltd.
Your Program... Our Passion!

Box 2330, Warman, SK S0K 4S0
Chris Poley 306-220-5006
Shane Michelson 403-363-9973
Ben Wright 519-374-3335

ONLINE BIDDING AVAILABLE...

Internet Bidding Available
DLMS
www.dlms.ca
For more information call DLMS:
Mark Shologan 780.699.5082 or
DLMS Purebred Team 780.991.3025

SALE DAY AGENDA...

10:30: Viewing of Sale Cattle
12:00 PM: Lunch
1:30 PM: Sale Begins

DELIVERY...

- All bulls will be delivered prior to May 1
- Free delivery in western Canada (BC, AB, SK, MB). We will try our best to bring them to your doorstep, however in some circumstances, a free delivery point close to your location may be used.
- Delivery beyond western Canada is responsibility of buyer. We may be able to delivery to a drop point in western Canada.
- $200 off purchase price of bull if you pick up yourself at the ranch prior to April 1st.

WINTERING...

Any bulls requested by buyer to stay past May 1 delivery will incur a daily cost of $5 per day.

DISCOUNTS...

5% for 3 bulls or more

VIDEO SALE...

This is a video sale. Bulls will be sold individually instead of entering the ring. The videos will be available about 3 weeks prior to the sale on www.cattlevids.ca.

BULL VIEWING...

- Prior to sale day to view the bulls in their natural habitat
- On sale day organized into 8-10 head similar typed groups

We welcome the opportunity to assist you with your selection.

RIGHT TO SEMEN...

Hwy 21 reserves the right to draw semen on any bulls sold at our cost, for in herd use only, at a time convenient to the purchaser.

RETAINED INTEREST...

All retained interest in walking and semen rights/sales will be communicated on an individual bull basis prior to sale.

View the catalogue and videos online at WWW.BUYAGRO.COM
Please bring this catalogue with you sale day.

PLEASE SEE DIRECTIONS TO RANCH ON PAGE 54

From the Desk at T Bar C...

Welcome to the 2nd Annual Highway 21 Group Bull Sale, March 20, 2023, at the ranch, Hanna, Alberta. The Millers are no strangers to the beef cattle industry as many of us know they have owned and operated a very successful feedlot. They know the value of cattle from conception to the consumers grocery cart. The breeding program is very unique and the watch word for their endeavors is efficiency with fact and documentation.... "Efficiency Verified Genetics."

In the past decade, Ed and Lyle have assembled one of, if not the best cow herds based on quality and predictable production. The Charolais program is headlined by proven elite donor dams... prolific in production, with above standard weaning and yearling performance values along with longevity. The Highway 21 herd is ranch raised and run in the same fashion as those of their customers.

The 2023 lineup is exciting with several breeder bull prospects among the rugged offering of high performance sires... bulls with substance, style, muscle and hair designed to add pounds at weaning and increased bottom line. You will admire the uniformity and depth of the "Heat Wave" and "Everglade" sired sons. In the Charolais division, Highway 21 offers a stout two-year-old field. These bulls were too young for breeding as they were born in April and later. They ran in the Hanna hills throughout the summer and have developed into powerful sires... sound in structure and full of natural thickness... they will cover lots of cows on all types of terrain.

The composite bulls are all two's... thick and rugged with high maternal values. They are used in the Highway 21 program to produce females. The Simmental sire group includes several sons of "SVS Tycoon 841F"... the number 1 bull in the breed for weaning and yearling weight along with sons of the proven "Odin." "Thunderbird" represents the Angus component.

Study this catalogue as you are looking at the ways of the future. The folks at Highway 21 are leaders in the industry... this is a mirror of things to come, thanks to their forward thinking.

March 20th at Hanna is full of opportunities. In addition to a solid outstanding lineup of bulls, these folks offer a "buy back" program on your calves along with a guarantee and the unique Highway 21 warranty. Stop by the ranch any time prior to the sale and preview the bulls and have a peek at the mothers. Feel free to call Ed or Lyle to discuss the bulls and all the opportunities offered... it will be well worth your time!
If we may be of assistance prior to, or sale day, feel free to contact any of the T Bar Team or myself, we will help you in a professional manner.

Chris Poley

Chris Poley
306-220-5006

Ben Wright
519-374-3335

Shane Michelson
403-363-9973

SIGHT UNSEEN PURCHASE...

If you are unable to attend you may bid Online with DLMS, contact one of the sale representatives, or have piece of mind with our Sight Unseen Purchase Program. Give us a call ahead of time with your breeding goals (CE, performance, feed efficiency, maternal, terminal etc.) and we will collaborate with you to select a bull to fit your requirements and budget. If you are not satisfied, we will refund your money.

INTEREST...

Any bill in arrears (30 days past invoice date) will be assessed an interest rate of 1.5% per month, 18% per annum, unless prior arrangements have been made with Highway 21 Group.

RETAINED INTEREST...

All retained interest in walking and semen rights/sales will be communicated on an individual bull basis prior to sale.

BULL FINANCE PROGRAM...

- Must be pre-approved prior to sale day. Call us ahead of time.
- Minimum purchase of $6000.
- 60% down on sale day unless prior arrangements made.
- Remaining 40% plus interest due November 1st of sale year.
- Bulls branded with Hwy21 brand.
- Bill of sale and ownership transfer will be issued once bull paid in full.
- Interest rate of 7% per annum.

YEARLING AND 2-YEAR-OLD BULLS...

We are offering yearling and 2-year-old bulls. Quite simply, we cut off the age for the yearling bulls to be born prior to March 10th. Bulls offered that were born after March 10th will be 2-year-old bulls. These bulls will on ly be represented for sale once. **There will not be any unsold bulls rolled over to the following year.**

HWY 21 BULL GUARANTEE...

We guarantee:

• Bulls passed a semen evaluation by a licensed veterinarian prior to sale. A certificate will be available upon request.

• Bulls are structurally sound and healthy (upon delivery) and will have no issues breeding cows naturally.

• Bulls can be handled using proper animal handling skills on foot, horseback, with quads and cattle dogs. Our customer's safety is of utmost importance.

• Bulls have the fleshing ability to return to pre breeding condition prior to the next breeding season, assuming no more than a 90-day breeding season and the same start to the breeding season the next year. This can be achieved with a high-quality forage ration or diet.

We know that the most important thing is for the cows to get bred. Thus, if you have any issues with the bull, contact us immediately so we can supply another bull as quick as possible.

Your options for bull replacements are:

1. We will replace the bull with one of equal or superior quality at no additional cost.
2. Replace the bull and adjust the value agreed upon and issue you a payment for the spread.
3. If no replacement bull is needed in the same season, we will take back the bull, or take the salvage value if shipped and issue you a credit for a bull purchased in the future.

Our Guarantee covers 3 Breeding seasons

1. 75% of purchase price up to May 1, 2024
2. 50% of purchase price up to May 1, 2025
3. 25% of purchase price up to May 1, 2026

The bull that is being replaced becomes the property of Hwy21 to salvage/sell and we require ownership transferred.

HWY 21 BULL WARRANTY...

Our Bull Warranty is meant to cover what the Guarantee does not, such as loss of use from death, sickness, or injury (structural as well as reproductive). It covers the first breeding season. We will **pay out all claims, supply another bull or issue a credit for future sales**, whichever you choose.

Terms:

• 10% of purchase price
• Decision to purchase must be made sale day
• 8-month term from March 20th to November 20th, 2023

If you have a claim:

1. Contact us immediately by phone or email.
2. Have a licensed veterinarian treat, diagnose, and complete a claim form that will be provided
3. Have a post-mortem completed by a veterinarian in the case of death.
4. When possible, return the bull back to Highway 21 Feeders.

Exclusion to Warranty:

Injury or death due to malicious, willful, or intentional acts or mistreatment by you or your employees are fraudulent claims. The purchase of this warranty is **your choice** and completely optional. **Each animal becomes the risk of the purchaser as soon as it is sold.** Animals may be cared for at the **purchaser's risk**, cost free, relative to the terms of delivery and development.

WHAT WE OFFER

EFFICIENCY VERIFIED GENETICS...

We are one of few producers in North America that are evaluating all our progeny for feed efficiency. We have been testing using Growsafe technologies for 7 years running. We were pleased to learn on our recent Charolais yearling bulls that 22% of them rank in the top 20% of all cattle ever tested. See the RFI quick facts/FAQ's at the back of the catalogue.

CALF BUY BACK AND MARKETING...

At Highway 21 Feeders, we are always looking for exceptional cattle to buy and feed. We know the bulls you have bought, the traits they excel in and as well their dam and sire better than anyone.

Calf Buy Back Premium – CBP

• Exclusive to Hwy 21 sired calves from qualified bulls (identified prior to sale)
• Premium paid upfront
• Premium Grid will be available by Sept 15 and based on current feed costs, cattle prices, and slaughter programs.
• Starting price (before premium) will be the monthly (4-week) Canfax average for weight class
• Oct and Nov pricing and delivery periods. Elect your calves no later than middle of the month. Cattle must be delivered by end of the month.
• Pen space reserved for this progeny.

Calf Buy Back and Marketing - CBM

• Offered on progeny from bulls without designation.
• Highway 21 will be bidders on the calves.
• Highway 21 will assist ranchers to market their calves in the event we have no space in feedlot or are out of our price range.
• No pen space reserved

General Terms

• Cattle delivery will be worked out between buyer and seller.
• Financing available for partnership/retained ownership in all programs.
• Standard industry shrinks and price slides will apply.
• Minimum of 2 weeks notice prior to when you want to market.
• We may require photos if we are unable to come view the calves.

Marketing Information

Every bull buyer will have access to cattle projections. They will be available at www.highway21group.com website with a password. These will assist ranchers in making marketing and feeding decision. Passwords will change yearly, and access will lapse 3 years after your last bull purchase.

Open/Cull Cow Marketing

To compliment full 360 service, if you have close to a liner load or more of open or cull cows, we will assist our bull customers in marketing them direct to slaughter, free of charge.

DATA FOR YOUR HERD...

We can only manage what we measure thus the power of knowing the data has been instrumental in our program. We have 2 options for data sharing back to your herd.

1.If you retain interest of 30% or more and feed them with us, we will upload the information collected into HerdTrax or a summary report/XL file free of charge.

2.If we have purchased your calves outright, we can supply the data back for a small administration fee.

Every effort will be made to obtain full grading data; however, some processors differ in how data is supplied. At the back of the Composite bull section, our reference sire table represents a sample of the information available from HerdTrax.

DEVELOPMENT OF BULLS...

When we are Buyers, and Sellers

When we are buying seedstock we are ALWAYS interested in the feeding program of our suppliers as it is of utmost importance in our eyes. **We develop our bulls for sale in the same fashion as what we want to see when we are in the buyer's seat.**

• Overfeeding of bulls can contribute to feet problems as well as permanent fertility problems
• Bulls have been on a high roughage, low energy ration
• We are proud to employ Cargill Animal Nutrition and their professional staff to aid in the management of our bull development.
• These bulls may not be carrying as much condition as your accustomed to.
• Bulls that are developed such as these should create more longevity within your herd and breed more cows.

VERIFIED BEEF PRODUCTION (VBP+)...

At Highway 21 Group, we embraced the certification process for VBP+ for both our Hanna ranch and Acme feed yard. It was an easy decision as we support their goals of transparency, accountability, and a commitment to Certified Sustainable Beef as well as adhering to industry standards for food safety, animal care, biosecurity, and environmental stewardship, which all work towards enhancing the Canadian Beef Advantage. As a seedstock producer, offspring we offer for sale start the chain of certification, and the certified animals we buy back, and finish, complete the production chain of certification. With our adoption of the program, we have received premiums for certified animals that are slaughtered. VPB+ is supported at the consumer level as well by Harveys, Loblaws and MacDonalds to mention a few. Our commitment to the industry made our decision to become VBP+ certified an easy one.

EFFICIENCY VERIFIED FEMALES...

We do not just evaluate our sires. We also assess our replacement females. For the past 7 years we have been infusing females into our program that have underwent Growsafe testing for RFI and FCR. This is necessary to improve the efficiency of the animals we produce from the DAM side of the equation as well. Within the next couple of years, we will be producing more of these EFFICIENCY VERIFIED females than we can use in our own herd. If your interested in adding Simm/Angus heifers into your herd, contact us directly.

ULTRASOUND...

We have engaged Windy Ridge Ultrasound for the past 7 years. Ultra sounding helps us supply greater accuracy to the RFI testing, obtaining a snapshot of what our progeny is carrying under the hide, as well as an indication of how the genetics of the animal is converting energy to protein and fat. Knowing where we stand helps us ensure we are producing a product that the end user (processors and consumers) is interested in purchasing. Due to the age of the animals, and the fact that they are not on a finishing diet, we are not necessarily critical that they are all currently grading AAA or higher, or that the have a certain lean meat yield, backfat or Rib Eye Area. We use it as a representation of comparison within the group to help identify progeny that may be superior for each trait.

MEASURING & PRESENTATION OF OUR DATA...

Your time is valuable and never in abundance. Our GOALS are simple!!

1. To supply all information
2. Present it in a format that saves you time
3. Full transparency of any further information.

You know the traits that your interested in for your personal breeding goals. Focus on them and use the other tools how you see fit. If you want a **truly interactive experience to save you time**, instead of scouring this catalogue, first start with our Bull Ranking pages on our website @ www.Highway21group.com to narrow your search. Here you will also find all the sire, dam, and **pics of front and back feet on every bull**! Don't forget the Herdtrax link to dive deeper into anything not presented in the catalogue.

For perspective, here is a summary of industry values throughout the supply chain. The iconic model would be to run feed efficient cows, which produce the highest weaning weights, gain the fastest with the least amount of feed in the feed yard, and slaughter with the largest carcass weight possible (below heavy discounts), that grade prime yield grade 1. We are not suggesting these animals are easy to achieve, but we are offering data that help point you in the right direction on the road to success regardless of if you sell, retain ownership, feed, grass, sell beef cuts or produce females.

A Snapshot of Industry Values Today (Feb 2023)

1 Lb of Weaning weight	$2.90
Steer Cost of Gain per Lb	$1.56
1% of Carcass Yield	$52
12.5% improvement FCR per head (feedlot)	$160

		% Of All Grades (CDN)
Prime Premium per carcass	$322	4.4%
Choice/AAA premium per carcass	Base	70.8%
Y1 Premium per carcass	$77	13.4%
Y2 Premium per carcass	$39	43.1%
AA/Select Discount per carcass	$116	23.8%
Y4 Discount per carcass	-$103	9.0%
Y5 Discount per carcass	-$154	3.3%

With **feed costs making up 65-75% of production costs across all sectors**, it goes without saying that it has the greatest effect on profitability outside of market prices. Furthermore, it takes 4 MCals of energy to produce protein and 9 MCals to produce fat thus we also must keep in perspective that although quality grade is important, we cannot forget to manage our Y4 and Y5 yield grades at the same time. These factors have always been important, but even more so with higher feed grains. This made our decision to invest in infrastructure to evaluate feed efficiency and Ultrasound an easy one.

The chart to the left shows what savings are possible when testing for RFI. A 12.5% improvement in FCR (feed conversion ratio) is strongly supported by the scientific community and upwards of 25% by some of our colleagues who have been selecting for multiple years. Now, for a feed yard that feeds 30,000 head a year, a feed savings of $160 per head relates to $4.8 million a year. Not to mention that the **yearly feed cost savings** on RFI selected cows can save you the **equivalent that 66 lbs of weaning weight** would generate. These are the reasons why we are so passionate about helping to make change in the industry for the better. The reality is, selling bulls and improving genetics is the fun part of our business, but at the same time, the benefits to ourselves and the rest of the industry are far greater than what a bull sale will generate.

Complimenting the customary EPD values to improve the accuracy for your breeding decisions.

Feed Savings at Various Barley Prices when selecting for RFI/FCR
Based on a 650 lb steer finished to 1450 lbs

Per Head		Barley Cost		
Feed Conversion Ratio	% Improvement	$430/MT ($9.36/bu)	$253/MT ($5.50/bu)	$183/MT ($4/bu)
13	-91.2%	-$1,124.00	-$714.00	-$538.00
8	-17.6%	-$225.00	-$138.00	-$104.00
6.8	Baseline	$0.00	$0.00	$0.00
5.95	12.5%	$160.00	$99.00	$74.00
5.1	25%	$319.00	$198.00	$148.00
4	47%	$487.00	$323.00	$243.00
3	63%	$674.00	$438.00	$330.00
Per Sire		**Barley Cost**		
Calves Sired	**% Improvement**	**$430/MT ($9.36/bu)**	**$253/MT ($5.50/bu)**	**$183/MT ($4/bu)**
76	Baseline	$0.00	$0.00	$0.00
76	12.5%	$12,160.00	$7,524.00	$5,624.00
76	25%	$24,244.00	$15,048.00	$11,248.00

Based on 4 years of use of a bull @ 95% calf crop and 20 calves sired naturally per year

Feed Cost Savings per Cow with RFI Selection

Daily Feed Costs for Year	% Improvement	Feed Savings per Day	Per Year	Per Life of Cow
$2.00	17.5%	$0.35	$127.75	$1,022.00
$2.00	25.0%	$0.50	$182.50	$1,460.00
$2.63	17.5%	$0.46	$167.99	$1,343.93
$2.63	25.0%	$0.66	$239.99	$1,919.90
$3.00	17.5%	$0.53	$191.63	$1,533.00
$3.00	25.0%	$0.75	$273.75	$2,190.00

Feed costs based on $1.50 pasture for half year and $2.50, $3.50 and $4.50 wintering costs respectively for half year. Life of Cow based on 8 years

100K GENOMICALLY ENHANCED EPD...

When you see this symbol with a bull, the accuracy of his EPD's have been genomically enhanced. By testing, it is the equivalent of the sire having about 25 progeny when assessing the top four traits (CE, BW, WW, YW). This improved accuracy helps provide confidence when selecting young animals with no actual offspring that otherwise would only have an EPD accuracy based on their sire, dam, and their own performance data. At the time of catalogue print, the yearling bulls 100K DNA results were not posted yet with CCA, thus we would encourage you to check the CCA website for updates on bulls of interest. Alternatively, updated 100K EPD's will be available on sale day.

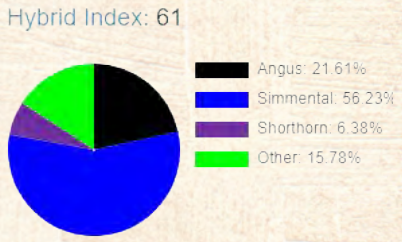
Association Expected Progeny Differences (EPD's)

• **CE** – The CE EPD expresses differences in calving difficulty between calves born to first calf heifers. When comparing two sires, the larger value indicates fewer potential calving difficulties.
• **BW** – Expressed in pounds. Smaller EPD means lighter BW.
• **WW** – Expressed in pounds. Larger WW EPD's indicate progeny will have higher 205 weaning weights.
• **YW** – Expressed in pounds. Larger YW EPD's indicate progeny will have higher 365 yearling weights.
• **Milk** – Represented in pounds weaned relative to daughters expected milk and mothering ability.
• **MTL** – Combines ½ of the WW EPD and all the Milk EPD and is expressed as pounds of calf weaned at 205 days. Higher numbers predict greater weaning weights from female progeny.
• **CW** – Expressed in lbs. Higher numbers will have a greater carcass weight at slaughter.
• **REA** – Expected difference of REA in square inches. Higher numbers predict larger REA.
• **Fat** – Expected difference of fat measurement. Lower numbers predict less unwanted fat.
• **Marb** – Expected difference of marbling score. Higher numbers predict higher marbling score.
• **% Rank** – We have saved you the time of looking up how each animal ranks for each trait within the breed. Numbers less than 50 are in the top half of the breed for the trait, greater than 50 are in the bottom half.
• **Pedigree** – Charolais will have all sires, dams, grandsires and granddams supplied. The composites will only show the dam level on the maternal side of the pedigree. If you wish to look further into the maternal pedigree, please see the Herdtrax links on the website

OUR HARD DATA

• **Breed Makeup** – Represents the percentage of each breed present as measured through DNA.
• **Hybrid Index** - Represents the percent heterosis of the animal. Increased heterosis improves pregnancy rates, feed efficiency and performance.

NEW!



• **BW** – Actual BW, expressed in lbs
• **AOD** – Age of Dam in years at time of calving.
• **Dam Index** – Herdtrax All Purpose Index (HAPI) The HAPI index or "Happy" index is meant to compare cows (in herd) based on their ability to be strong maternally and terminally. For full cow indexing guides, see our Bull Ranking Guide @ www.highway21group.com
• **Docility Scoring** - The safety of our customers, staff and family is Number 1. Without all of them, none of our success would be possible. Handling livestock should not have to be dangerous. We handle these animals daily in a low stress environment and do our best to prepare them for all types of environments. Each animal does have its own personality and reacts differently to handling. We have adopted what many other breeders already do, and what we feel should be a standard in the industry, by applying a docility score to our animals. We understand this may deter you from an animal you would have otherwise purchased, but your safety of knowing what you are buying is of utmost importance.

Our ranking system is as such:
1. These animals are not easily or safely handled. We have eliminated them from the herd.
2. These animals can be harder to handle, especially if alone or under pressure. They require a wider flight zone and can move quickly to maintain this flight zone.
3. These animals are very easy to handle and have a smaller flight zone. They will usually move off pressure slowly but with ease. Most of the animals will fit into this score.
4. These animals are extremely quiet and will take a lot of pressure to move. They do not get excited easily alone or in a group.

CALVING EASE (CE) SCORING

We have made every effort to have a very CONSERVATIVE approach to Calving Ease ranking on our Composite Bulls. We want you to sleep well at night knowing we are doing our part to make sure you will not have problems. Aside from naturally culling for calving ease issues over the past 10 years in our herd, we have outlined our criteria for how we have scored these bulls for CE. For the Purebred Charolais, we have posted the breed assoc EPD's for reference.

3 ★★★ Use on Large frame first calf heifers with confidence.
2 ★★ Use on 2nd calvers or medium framed cows with confidence
1 ★ Use on Mature cows (3rd calvers and up)

CRITERIA

CE Score 3 ★★★
93 BW and lower on:
1. Bull for sale, reference sire, average of all reference sire progeny, average of all reference dam progeny
2. Assessed the low to high of BW of all progeny for deviation from the average
3. Reviewed the frequency of assisted at birth of all progeny of Reference sire to be less than 1%
4. Assessed the animal phenotypically for a smooth shoulder, narrow head for calving ease

CE Score 2 ★★
Same criteria except using a 103 lb BW and lower and frequency of assisted births to be less than 5%.

CE Score 1 ★
Same criteria except using greater than 103 lb BW and lower - and frequency of assisted births to be less than 5%

NOTE:

Information regarding Highway 21 herd health, nutrition program, Herdtrax Beef, and Vytelle/Growsafe testing can be found at the back of the catalogue

GLOSSARY OF TERMS...

• **ADJ 205** – Weaning weight expressed in lbs adjusted to 205 days to compare all bulls at equal age.
• **Wean Ratio** - Represents the percentage that the adjusted 205 weight is of the group.
• **Wean ADG** – Gain per day from Birth to actual weaning weight
• **ADJ 365** -. Yearling weight expressed in lbs adjusted to 365 days to compare all bulls at equal age.
• **YRLG Ratio** - Represents the percentage that the adjusted 365 weight is of the group.
• **Post Wean ADG** – Actual gain per day from weaning to yearling.
• **WPDA** - Actual gain per day of age based on actual yearling weight. The Charolais match that of the association and BW is included as weight gain. Herdtrax is used for the Composites and subtracts BW from the yearling weight in calculating the weight gain.
• **RFI (Residual Feed Intake)** - RFI is calculated as the difference between an animal's actual feed intake and their expected feed intake. For more in depth information, see the GROWSAFE RFI QUICK FACTS. Lower/Negative numbers are superior.
• **FCR (Feed Conversion Ratio)** –Represented in pounds of dry feed consumed to gain one pound of live weight. Lower numbers are superior.
• **MARB** - Marbling is the percent of Intermuscular fat within the muscle. AAA, AA, A. The ranking uses actual score instead of Canadian Beef Grading class.
• **BF** - Backfat is the thickness of fat covering the loin muscle in inches. This is the main trait that affects percent Lean Meat Yield or Y1-Y5 yield grades at processing. The greater the measurement, the poorer or higher (Y5) the yield grade.
• **REA (Rib Eye Area)** - The size of the loin muscle in square inches. An increase in REA will raise the percent Lean Meat Yield.
• **REA in^2/100#** – Represents square inches of Rib Eye per 100 lbs live weight
• **% LMY** – Percent Lean Meat Yield represents what percent of the carcass is lean muscle versus bone, fat, etc.
• **Mus. Index** – Represents square inches of Rib Eye per 100 lbs estimated carcass weight.

SHADING/$ INDEX GUIDE...

Throughout our catalogue, you will see a color scoring guide for:

SILVER	GOLD	PLATINUM	ELITE

1. WEAN$ (ADG),
2. ADG$ (post wean ADG performance),
3. CONV.$ (feed efficiency – RFI and FCR),
4. MARB$ (quality grade) and
5. MUS$ (muscling score, % LMY)

This serves as two purposes. First off, it is a quick visual representation of the corresponding data and where the animal ranks within the bell curve of each group. Second, if you are only concerned about pounds weaned, traits 1 and 2 would be your focus. For traits 2, 3, 4 and 5, it represents the premium value we can offer on calf buy back, or value you may experience if you retain ownership. GOLD and SILVER categories represent cattle that we would consider average. PLATINUM represents cattle that we would pay premiums ABOVE average calf price to acquire. ELITE is the best of the best and would obtain the GREATEST premiums.

As feed costs jump, you can't be caught feeding ingredients that hammer profits.

Let Cargill's team of trusted professionals partner with you to build a nutritional program that integrates our feeds, minerals and services to provide a solution that fits your specific environment.

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HWY Kleensweep 10K

Homo Polled 1/13/2022 HWY 10K Pending

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

TR MR FIRE WATER 5792RET
Miss Prairie Cove 314A
SPARROWS TEMPEST 174K

BW: 102 lbs. AOD: 9 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3	2.3	48	84	17	43	23	0.42	1.48	-0.425
%RK	80	80	40	60	70	55	20	55	95	95

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	675	94	2.8	SILVER	1159	101	3.03	3.19	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	6.86	14.40	63.44	1.21	Gold		-0.15	4.83	Plat.

Dam to 10K
MISS PRAIRIE COVE 314A

This embryo calf is one of the only ones we were able to get out PCC 314A, and boy are we glad we did. He shows her style as well as Heatwaves depth of middle that he carries.

TESTIMONIAL

H21 provided exceptional service and guidance when selecting for a CE/performance package in a breed I was not familiar with. Upon weaning the first years calf crop compared to my conventional breeding, I seen a 32 lb weaning weight advantage.
- **Kyle Lemmer**

Dam **SOS PEACHES 42B**

HWY Khrome 12K

Homo Polled 1/17/2022 HWY 12K MC841287

LT LEDGER 0332 P
SOS APEX PLD 139F
TMJF BERYLE 447B

GERRARD PASTOR 35Z
SOS PEACHES 42B
ALT SPUR ZOE 255W

BW: 111 lbs. AOD: 8 Dam Index: 106.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	0.4	2.3	65	120	16	48	30	0.61	1.228	0.77
%RK	95	80	1	4	95	20	10	20	80	30

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	827	116	3.49	ELITE	1206	105	2.37	3.47	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Gold	5.08	13.00	64.12	1.00	Gold

FEED CONV. INFO	RFI	FCR	CONV.$
	-5.89	5.18	Elite

Nobody will be surprised to see the famous SOS Peaches 42B cow hit it out of the park again in the bull pen. Everyone is familiar with the success the SOS program had with this cow such as her being selected as the 2016 Reserve National Champion Senior female as well as raising the full brother to this calf SOS Pandemic 168H who himself was no slouch in the show ring, and the SOS High selling bull in 2021. This calf has so much length, you would think the camera lens was distorted on picture day. With the embryos in the tank from this cow, we are excited to see what else she gives us. She is a "no miss" cow both in raising this guy and flushing 20+ embryos at a time. Lastly, this calf blew the doors off the feed efficiency trial, with no other bulls even in the same ballpark. Don't be afraid of birthweight here. Peaches weighed close to a ton from extra "bloom" needed for her dispersal only weeks before she birthed Khrome with no assistance. The Apex sire adds calving ease that you will see when the 100K results for this calf get updated on CCA. If you want a piece of this great pedigree, here it is. Retaining 1/3 semen interest.

HWY Krammer 15K

4th Gen Polled 1/15/2022 HWY 15K MC841334

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

MERIT ROUNDUP 9508W
MAIN ROUND UP 712E
MAIN LANZA 539C

BW: 86 lbs. AOD: 5 Dam Index: 102.4 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	10.8	-3.7	46	95	15	38	16	0.4	1.025	0.58
%RK	15	5	35	25	100	90	55	60	75	30

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	640	89	2.7	SILVER	1054	91	2.59	2.91	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Gold	4.06	12.10	64.43	1.12	Plat.

FEED CONV. INFO	RFI	FCR	CONV.$
	0.29	7.42	Gold

HWY Kolossal 19K

4th Gen Polled 1/19/2022 HWY 19K MC841372

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

ARL SQUARE DANCE 1C
ARL JOY 2H
KIRLENE HAVANA JOY 10B

BW: 86 lbs. AOD: 2 Dam Index: 102.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	8.1	-1.4	50	102	25	50	22	0.54	1.279	0.49
%RK	30	20	25	10	15	10	15	15	90	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	701	98	2.63	SILVER	1178	102	2.98	2.97	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	6.60	12.50	62.16	1.14	Silver		1.3	5.93	Gold

Undoubtably the best calf raised by a first calf heifer in 2022. Another Everglade son whose natural muscle and shape demands the eye of whomever is in the pen with him.

HWY Konroy 20K

Scurred 1/17/2022 HWY 20K MC841820

LT RUSHMORE 8060 PLD
LT AFFINITY 6221 PLD
LT ATHENA 1247

RAWES SIR T 123Y
HWY 123Y GLODIE 310H
LM MISS MCKAY 1212Y

BW: 80 lbs. AOD: 2 Dam Index: 102.2 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	13.6	-3.2	44	85	25	47	14	0.48	1.254	1.16
%RK	3	10	65	60	25	35	75	40	85	5

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	699	98	2.65	SILVER	1083	94	2.4	2.8	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.59	13.70	64.17	1.29	Plat.		-0.04	5.61	Plat.

HWY Kraze 21K

4th Gen Polled | 1/17/2022 | HWY 21K | Pending

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

LT LANZA 1427 PLD
Main Lanza Hombre 645D
MAIN RHAPSODY HOMBRE 306A

BW: 102 lbs. AOD: 6 Dam Index: 119.3 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.4	0.6	54.5	105	20	47	26	0.37	1.62	0.41
%RK	50	50	15	15	60	25	15	75	100	40

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	700	98	2.92	GOLD	1151	100	2.82	3.21	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	3.81	12.60	65.09	1.09	Plat.		-1.96	4.73	Elite

HWY Kickstart 28K

Homo Polled | 1/26/2022 | HWY 28K | MC841335

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

ZWB PLEASANTDAWNLEDGER34B
MAIN MARG 954G
PLEASANT DAWN MARG8X

BW: 105 lbs. AOD: 3 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	7.2	-0.9	60	109	22	52	25	0.38	1.736	0.25
%RK	40	30	4	10	40	4	10	75	100	55

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	858	120	3.3	PLAT.	1275	111	2.61	3.39	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.33	12.30	63.29	0.96	Gold		-0.51	7.14	Plat.

One of the top performing bulls in the pen. This one is always putting on a "show ready" stance whenever you see him. You can't go wrong with the temperament of this calf out of a second calver.

HWY *Kryptonite* 29K

Scurred 1/19/2022 HWY 29K MC841336

SOS APEX PLD 139F — NCC TRUE 97B
SOS PANDEMIC 168H — TMJF ESTER 655E
SOS PEACHES 42B — TMJF YOULETTE 325Y

BW: 100 lbs. AOD: 5 Dam Index: 104.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.2	-0.2	64	120	18	50	26	0.56	1.457	0.67
%RK	45	35	1	2	85	10	10	20	95	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	801	112	3.34	ELITE	1258	109	2.86	3.48	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.33	14.40	65.00	1.13	Plat.		-0.02	8.34	Gold

When we walked the baby calves early last winter, this bull and Hwy Khrome 12K caught our eye with their natural muscle. Much to our surprise, this bull is a son of 12K's full brother. I guess we shouldn't be surprised. It just goes to show that the heritability of these Peaches genetics runs deep. You can't miss the depth and capacity that this bull exemplifies.

HWY *Kadbury* 30K

Scurred 1/20/2022 HWY 30K MC841337

HVA FORTUNE 5F — ZWB PLEASANTDAWNLEDGER34B
TURNBULL'S HEAT WAVE 740H — MAIN PD LEDGER 916G
TURNBULLS DELICACY 740D — MAIN HOMBRE 457B

BW: 102 lbs. AOD: 3 Dam Index: 104.5 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	7.6	0.4	51	94	20	45	21	0.3	1.685	0.37
%RK	35	50	20	30	70	40	25	90	100	30

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	676	95	2.62	SILVER	1087	94	2.57	2.89	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	4.32	12.00	64.09	1.08	Gold		1.72	5.19	Gold

HWY Knox 32K

4th Gen Polled | 1/26/2022 | HWY 32K | Pending

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

TR MR FIRE WATER 5792RET
Miss Prairie Cove 314A
SPARROWS TEMPEST 174K

BW: 102 lbs. AOD: 9 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.5	1.1	48	88	20	44	23	0.5	1.29	-0.37
%RK	75	60	40	50	65	55	20	35	90	90

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	646	90	2.65	SILVER	1103	96	2.86	3.15	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	4.57	12.40	64.15	1.15	Gold		-1.28	5.72	Elite

HWY Kracker Jack 36K

Homo Polled | 1/21/2022 | HWY 36K | MC841338

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

PRO-CHAR WINCHESTER 6D
MAIN WINCHESTER 912G
STEPPLER MISS 316E

BW: 105 lbs. AOD: 3 Dam Index: 103.3 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.8	1.4	59	115	24	53	25	0.51	0.949	0.91
%RK	80	70	4	2	30	3	10	20	65	10

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	698	98	2.71	SILVER	1182	103	3.03	3.1	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.59	12.20	62.95	1.01	Gold		2.38	6.41	Silver

This Vessel son looks a lot like his father when you look at the depth of his middle. Performance won't be a problem with calves from this pedigree.

Sire to 37K
SCX JEHU 233E

HWY Kilomenjaro 37K

2nd Gen Polled 1/20/2022 HWY 37K MC842010

SCR TRIUMPH 2135
SCX JEHU 233E
SCX MISS MAGNUM 109X

SCX THRILLER 89B
TRI-N PRAIRIE ROSEBUD 824F
TRI-N PRAIRIEROSEBUD 207Z

BW: 110 lbs. AOD: 4 Dam Index: 101.9 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	5.5	1.9	58	119	19	48	29	0.57	1.076	0.24
%RK	60	70	10	10	75	25	15	35	65	80

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	676	95	2.58	SILVER	1046	91	2.31	2.81	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.08	12.10	63.39	1.14	Gold		-0.04	6.27	Gold

HWY Klyde 40K

4th Gen Polled 1/22/2022 HWY 40K MC841339

LT LEDGER 0332 P
SOS APEX PLD 139F
TMJF BERYLE 447B

ERIXON'S SPITFIRE 127T
MXS MEGARA 365A
MXS MEGARA 36X

BW: 91 lbs. AOD: 9 Dam Index: 103.5 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	10.3	-2.7	47	93	14	38	15	0.4	1.025	0.94
%RK	15	10	45	50	95	90	80	80	70	20

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	677	95	2.86	GOLD	1042	90	2.28	2.94	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Plat.	4.83	10.80	62.59	0.99	Silver		-0.37	6.15	Plat.

HWY *Krown Royal* 42K

Homo Polled 1/22/2022 HWY 42K MC842011

SCR TRIUMPH 2135 — PLEASANT DAWN CHISUM 216A
SCX JEHU 233E — TRI-N CUTIE 801F
SCX MISS MAGNUM 109X — RAMM CUTIE 119C

BW: 92 lbs. AOD: 4 Dam Index: 104.6 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.5	0	57	121	21	50	29	0.58	1.558	0.71
%RK	55	40	4	1	65	10	2	10	100	10

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	735	103	3.06	GOLD	1255	109	3.25	3.38	ELITE

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Silver	4.06	13.50	65.56	1.09	Plat.

FEED CONV. INFO	RFI	FCR	CONV.$
	0.97	6.31	Gold

If you like this one, we have more of the same mating coming next year. But why wait? When we bought from Tri N dispersal sale, we absolutely fell in love with a Jehu daughter out of the Cutie cow. So, we thought, if it works, don't change it. This son of the $245,000 SCX Jehu 233E packs a ton of muscle into his frame. You'll appreciate his thickness in his top when you get behind him. This calf comes from one of our ELITE flush cows.

A BIG DIFFERENCE

At last years sale, Phil raised $4500 Raised for the High River District Health Care Foundation

HWY Klondike 46K

3rd Gen Polled | 1/23/2022 | HWY 46K | MC841340

SOS APEX PLD 139F
SOS HEFNER PLD 33H
SOS DESIRAE PLD 7F

JWX TRIPLE PLAY 34T
WRANGLER MS PRINCESS 16Z
SDC SWISS PRINCESS 71T

BW: 105 lbs. AOD: 10 Dam Index: 103 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.3	1.7	53	102	11	37	23	0.42	0.619	0.71
%RK	80	70	25	35	100	95	45	80	35	40

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	671	94	2.73	SILVER	1031	89	2.25	2.88	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	3.56	11.40	64.38	1.06	Plat.		-1.68	6.2	Elite

HWY Kapow 48K

Scurred | 1/23/2022 | HWY 48K | MC841803

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

MAIN LEDGER'S SHADOW 26D
MAIN ROSA 21076H
FVSF MS ICE 44D

BW: 85 lbs. AOD: 2 Dam Index: 103.4 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	9.5	-2.1	57	105	22	50	21	0.47	1.762	0.44
%RK	20	15	10	15	45	10	30	40	100	35

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	762	107	2.93	GOLD	1155	100	2.46	3.03	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	5.33	12.00	63.05	1.03	Gold		-0.29	6.11	Plat.

HWY Klash 71K

3rd Gen Polled | 2/1/2022 | HWY 71K | MC841342

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

HEJ BIG BANG 81B
MAIN BIG BANG 663D
MAIN CHIEF KAT 8878 240Z

BW: 110 lbs. AOD: 6 Dam Index: 104.9 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.2	0.7	60	114	24	54	26	0.47	1.076	0.99
%RK	75	55	5	10	30	4	15	55	70	15

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	782	109	3.28	PLAT.	1152	100	2.31	3.3	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	4.06	12.20	64.51	1.05	Plat.		0.33	6.42	Gold

HWY Krickey 73K

4th Gen Polled 2/1/2022 HWY 73K MC841747

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

MAIN LEDGER UP 4C
MAIN LEDGER UP'S COBB 808F
MAIN COBB 639D

BW: 100 lbs. AOD: 4 Dam Index: 103.6 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.5	-0.3	54	98	22	49	22	0.39	1.457	0.33
%RK	50	35	15	20	50	15	20	60	95	35

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	704	99	2.87	GOLD	1104	96	2.5	3.05	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	4.32	11.20	63.44	1.01	Gold		1.39	5.96	Silver

HWY Kingpin 77K

Hetero polled 2/2/2022 HWY 77K MC841343

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

STEPPLER BLUE PRINT 64C
TURNBULLâ€™S MISS SASHA 954F
CTP MISS CLINIQUE 308Z

BW: 112 lbs. AOD: 4 Dam Index: 107.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	2.9	2.7	61	99	22	53	26	0.4	1.406	-0.28
%RK	80	85	3	15	45	4	10	55	95	80

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	821	115	3.28	PLAT.	1236	107	2.59	3.4	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	5.59	13.30	63.84	1.08	Gold		0.29	9.41	Gold

One of the highest performing Heatwave sons in the sale. His dam has produced offspring that have been retained in the breeding herd or marketed as a bull on everyone she has raised.

HWY Krackin 90K

Homo Polled 2/6/2022 HWY 90K MC841344

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

CEDARLEA TY COBB 78C
WRANGLER MS ALY 213F
SDC ALY 113U

BW: 98 lbs. AOD: 4 Dam Index: 106.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.6	-0.6	65	122	30	62	29	0.64	1.914	0.29
%RK	50	35	2	1	2	1	3	10	100	45

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	836	117	3.42	ELITE	1268	110	2.7	3.48	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	3.81	15.10	67.12	1.23	Elite		1.34	8.4	Silver

If you think you recognize this one, that because we thought enough of him and his mother to make them the cover for the catalogue. This is one of the longest and deepest Vessel calves in the pen. He is a standout for performance. His dam cranks one out every year, and she didn't miss with this one either.

Dam to 90K
WRANGLER MS ALY 213F

HWY Kipper 99K

4th Gen Polled 2/22/2022 HWY 99K MC841999

TR CAG CARBON COPY 7630E ET
JWX HOMETOWN 97H
JWX WYNNEMAKER 983W

HVA HIGH TIDE 83F
CFC 83F DUCHESS 39H
JOR MISS WAHKAMO 84A

BW: 106 lbs. AOD: 2 Dam Index: 102.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	2.4	2.5	53	106	22	49	25	0.45	0.974	0.48
%RK	85	90	20	10	30	15	10	40	70	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	762	107	2.83	SILVER	1196	104	2.71	3.12	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	AA	Elite	6.10	10.90	61.37	1.03	Silver		0.51	6.07	Gold

HWY *Kernel* 104K

Scurred 2/10/2022 HWY 104K Pending

WCR COMMISSIONER 593 P
Hwy Commissioner 9028G
HWY 45B HANNA 7322E

WR WRANGLER W601
Post Fantasya 633F
MISS LOUBER TIMEOUT 633A

BW: 98 lbs. AOD: 4 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	12	-1.95	46	85	19	42	12	0.38	0.82	0.22
%RK	10	15	50	60	70	70	80	70	60	55

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	683	95	2.85	GOLD	1127	98	2.78	3.08	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Silver	4.57	13.40	64.96	1.25	Plat.

FEED CONV. INFO	RFI	FCR	CONV.$
	0.22	6.56	Gold

HWY *Klint* 105K

Scurred 2/11/2022 HWY 105K Pending

WCR COMMISSIONER 593 P
Hwy Commissioner 9028G
HWY 45B HANNA 7322E

CIRCLE CEE LEGEND 307A
Post Francesca 836F
POST MISS BANNER 836B

BW: 99 lbs. AOD: 4 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	14	-4.7	42	81	20	41	8	0.36	1.44	-0.22
%RK	3	3	70	70	70	75	95	80	95	85

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	702	98	2.94	GOLD	1155	100	2.83	3.16	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Gold	4.83	12.00	63.57	1.10	Gold

FEED CONV. INFO	RFI	FCR	CONV.$
	-0.62	5.49	Elite

HWY Krooze 106K

Scurred 2/12/2022 HWY 106K MC841349

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

WINN MANS CHAVEZ 826Y
SOS EFFIE 90E
SOS ICE CAP 55X

BW: 105 lbs. AOD: 5 Dam Index: 104.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.3	0.2	63	117	20	51	25	0.4	1.279	1.02
%RK	50	45	3	4	65	10	15	75	85	15

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	804	112	3.41	ELITE	1185	103	2.38	3.4	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Silver	6.35	13.80	63.47	1.15	Gold

FEED CONV. INFO	RFI	FCR	CONV.$
	2.54	5.77	Silver

You can krooze right to the bank with fat cheques off of the weaning weights this tank will raise you. Vessel left his stamp on this one with his signature muscle, length, depth and hair. Performance is second to none with this one.

HWY Kutabove 107K

Hetero polled 2/13/2022 HWY 107K MC841350

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

SKW EXPEDITION 89C
WRANGLER MS ENERGY 127G
STAUFFERS MISS ENERGY PLD 64X

BW: 103 lbs. AOD: 3 Dam Index: 105.6 Doc: 2

Dam to 107K
WRANGLER MS ENERGY 127G

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	2.5	1.9	67	113	20	54	29	0.53	1.66	-0.3
%RK	85	80	1	1	65	1	1	10	100	55

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	870	122	3.56	ELITE	1383	120	3.21	3.76	ELITE

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	AA	Plat.	5.84	15.90	65.70	1.22	Elite		1.46	5.42	Gold

This one hasn't stopped since birth, and hence he holds the highest weaning and yearling ranking of any in our pen. You'll love the job this one will do for you in the pasture. He also measured the largest ribeye of any bull in the pen. Stand up and take notice on this one.

Testimonial

We have purchased Highway 21 bulls because of the invaluable information that drives the selection process. Lyle and Scott are straightforward and accommodating when helping us pick out the bulls for our terminal program, using the data and their records to find the right fit. We really value the carcass data and have seen the benefits. In 2022 when fat cattle were bleeding money, we had a group of May born calves finish that spring and top the class. Our buyer let us know that our genetics made the difference and to keep doing what we are doing. It all goes back to data on performance and ensuring that the right kind of genetics matches our goals.

- **Tim Wray**

HWY Kaboom 111K

Homo Polled 2/11/2022 HWY 111K MC841352

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

WCR COMMISSIONER 593 P
HWY 593 HANNA 9053G
HWY 45B HANNA 7728E

BW: 94 lbs. AOD: 3 Dam Index: 105.6 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	8.1	-0.9	63	107	17	49	23	0.38	1.889	-0.03
%RK	30	30	1	3	85	10	10	50	100	50

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	873	122	3.43	ELITE	1324	115	2.82	3.51	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Plat.	3.81	14.00	66.23	1.10	Elite		0.57	4.97	Gold

Like his half brother 107K, he shares the highest rankings for YW and WW in the pen, just in the reverse order. Not too often do you get this kind of performance in a bull that holds a spot in the top end of calving ease as well.

HWY Klutch 117K

4th Gen Polled 2/16/2022 HWY 117K MC841869

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

MAIN LEDGER UP 4C
MAIN BELLE 21034H
MAIN SILVER SHADOW 468B

BW: 89 lbs. AOD: 2 Dam Index: 103.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	7.5	-0.3	54	105	22	48	22	0.41	1.431	0.76
%RK	45	35	3	4	75	15	10	35	95	40

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	799	112	3.09	PLAT.	1144	99	2.16	3.06	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	AA	Elite	3.56	12.50	65.27	1.15	Plat.		-0.95	5.42	Elite

HWY Klay 118K

4th Gen Polled 2/21/2022 HWY 118K MC842788

WC BIG BEN 9036 — MAIN MAGICO LANZO 36D
WHITE MEADOW GRINGO 20G — PLEASANTDAWN SALLY 502H
WHITE MEADOW MS DANCER 45E — PLEASANTDAWN PAGE 502E

BW: 90 lbs. AOD: 2 Dam Index: 103.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	10.7	-2.5	53	103	25	52	19	0.42	1.635	0.77
%RK	15	15	20	20	15	5	45	60	100	20

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	781	109	3	GOLD	1213	105	2.7	3.18	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Gold	4.83	10.80	62.59	1.01	Silver

FEED CONV. INFO	RFI	FCR	CONV.$
	-0.2	6.19	Plat.

COUNTRY JUNCTION FEEDS

It has been a pleasure working with Highway 21 Group of Companies because when they succeed, we succeed. Wishing you the best of luck with your bull sale!

At Country Junction Feeds we offer a complete line of products and nutrition advice:

- Right Way Beef Rations
- Calf starters and creep feeds
- Mineral packages both floor-stock and custom blends
- Complete line of supplements
- Plain and medicated feeds
- Ration balancing

If you have any questions about Country Junction products, please contact Mike Panasiuk at **403-596-4305** or mpanasiuk@countryjunctionfeeds.com

HWY Konnect 119K

Homo Polled 2/20/2022 HWY 119K MC841354

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

CIRCLE CEE LUCIFER 608D
WINSNES PANSY 25F
WINSNES PANSY 54D

BW: 109 lbs. AOD: 4 Dam Index: 100.3 Doc: 3

Another Vessel son with top end feed efficiency.

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.2	2	56	104	22	50	22	0.45	0.72	0.77
%RK	70	75	15	25	45	15	30	60	45	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	732	102	2.86	GOLD	1105	96	2.33	3.02	SILVER

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Gold	2.79	13.40	66.78	1.34	Elite

FEED CONV. INFO	RFI	FCR	CONV.$
	-1.46	6.38	Elite

HWY Kingkong 123K

Scurred 2/21/2022 HWY 123K MC841355

TURNBULL'S FULL MOON 655F
PLEASANTDAWN VESSEL 195H
PLEASANT DAWN CELINE 95C

MAIN LEDGER'S SHADOW 26D
MAIN PEACHES 951G
TTSS MISS PEACHES 67D

BW: 109 lbs. AOD: 3 Dam Index: 104.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.8	2.7	59	111	24	53	26	0.55	1.025	1.12
%RK	80	90	5	5	30	3	10	15	70	5

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	759	106	2.99	GOLD	1193	103	2.71	3.23	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$
	A	Silver	4.32	12.30	64.33	1.11	Plat.

FEED CONV. INFO	RFI	FCR	CONV.$
	-0.53	4.69	Elite

HWY Kimes 124K

4th Gen Polled | 2/18/2022 | HWY 124K | MC841356

LT LEDGER 0332 P
MAIN PAYDAY 122F
MAIN COBB'S SHADOW 439B

MR LOUBER TRACKER 654A
POST MISS DIVA 744D
POST ANGELICA 740A

BW: 105 lbs. AOD: 6 Dam Index: 98.1 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.6	2.3	49	103	16	41	26	0.64	0.923	1.23
%RK	75	85	30	10	90	75	5	5	70	2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	638	89	2.6	SILVER	1100	95	2.89	3.02	GOLD

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	2.79	11.50	65.24	1.15	Plat.		1.72	8.85	Silver

HWY Kool 133K

3rd Gen Polled | 3/1/2022 | HWY 133K | Pending

SKW Expedition 89C
Elder's Houlio 4H
WRANGLER PRETTY LADY 98C

JWX DAYTIME 1047D
Turnbull's Miss Genessie 57G
CTP MISS PIXIE 430A

BW: 109 lbs. AOD: 3 Dam Index: 99.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.3	0.9	43	91	24	46	22	0.59	0.79	0.57
%RK	70	55	65	40	30	35	25	15	60	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	666	93	2.72	SILVER	1196	104	3.31	3.44	ELITE

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.84	10.50	61.31	0.99	Silver		2.05	5.99	Silver

HWY Koulio 134K

3rd Gen Polled | 2/22/2022 | HWY 134K | Pending

SKW Expedition 89C
Elder's Houlio 4H
WRANGLER PRETTY LADY 98C

JWX DAYTIME 1047D
Turnbull's Miss Genessie 57G
CTP MISS PIXIE 430A

BW: 102 lbs. AOD: 3 Dam Index: 99.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.3	0.9	43	91	24	46	22	0.59	0.79	0.57
%RK	70	55	65	40	30	35	25	15	60	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	761	106	3.21	PLAT.	1238	108	2.98	3.49	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	5.33	12.80	63.70	1.14	Gold		1.54	7.11	Silver

HWY Kindle 140K

4th Gen Polled 3/7/2022 HWY 140K MC841359

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

WRANGLER DURANGO 108C
WRANGLER MS ENERGY 153G
WRANGLER MS ENERGY 53C

BW: 106 lbs. AOD: 3 Dam Index: 104.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	3.5	1.1	60	111	21	52	28	0.6	1.279	-0.25
%RK	75	65	3	3	50	4	3	10	90	80

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	791	111	3.16	PLAT.	1260	109	2.93	3.42	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	3.81	13.10	65.50	1.15	Plat.		-0.73	5.37	Elite

HWY Kevlar 143K

4th Gen Polled 2/25/2022 HWY 143K MC841362

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

LT RUSHMORE 4024 PLD
MAIN RUSH LANZA 8021F
MAIN LANZA 5014C

BW: 108 lbs. AOD: 4 Dam Index: 103.3 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.8	1.6	54	107	24	51	28	0.47	1.508	0.28
%RK	70	75	10	4	25	5	2	30	100	35

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	760	106	3	GOLD	1253	109	3.08	3.36	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Gold	6.60	11.30	61.18	0.99	Silver		1.3	5.67	Gold

HWY Karl 150K

4th Gen Polled 2/27/2022 HWY 150K Pending

HVA FORTUNE 5F
TURNBULL'S HEAT WAVE 740H
TURNBULLS DELICACY 740D

PLEASANT DAWN MVP 316Y
Turnbull's Miss May 1G
PLEASANT DAWNOVERTOP97D

BW: 97 lbs. AOD: 3 Dam Index: 102.1 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	8	-0.02	57	105	22	50	23	0.38	1.68	0.28
%RK	30	35	10	15	50	15	25	75	100	50

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	690	96	2.89	GOLD	1152	100	2.89	3.29	PLAT.

ULTRASOUND	MARB	MARB$	BF	REA	%LMY	REA IN^2/100	MUS$	FEED CONV. INFO	RFI	FCR	CONV.$
	A	Silver	3.81	11.70	64.36	1.14	Plat.		0.71	5.7	Gold

CHAROLAIS REFERENCE SIRES

SIRE	CE	BW	WW	YW	Milk	MTL	CW	REA	FAT	MARB	LY
SCX JEHU 233E	3	0.9	62	137	20	51	36	0.68	1.784	0.01	1.53
MAIN PAYDAY 122F	2.5	3.7	58	130	23	52	39	0.89	1.759	2.26	1.86
PLEASANT DAWN VESSEL 195H	5.9	0.4	67	128	27	60	29	0.54	1.479	1.33	1.27
SOS PANDEMIC 168H	6.7	-0.3	68	118	13	47	23	0.49	1.657	0.38	1.11
RGP EVERGLADE 31G	6.3	-0.8	62	117	19	50	28	0.53	1.759	0.06	1.22
SOS APEX 139F	12.1	-3.6	60	115	9	39	18	0.49	1.479	1.34	1.06
SOS HEFNER PLD 33H	8.1	-1.1	61	114	11	41	23	0.33	0.1632	0.9	0.89
TURNBULL'S HEAT WAVE 740H	5.3	1.5	62	108	18	49	28	0.38	2.14	-0.06	0.99
MAIN LEDGER UP 4C	12.8	-3.6	54	105	14	41	15	0.4	1.581	1.62	0.9

LEGEND

highlighted sires indicate that EPD is in the top 50% of the breed.

RGP EVERGLADE 31G

With Turnbull's Duty Free being a household name in the Charolais breed, we purchased this top seller from Palmer Charolais in 2020. We have used him extensively on first calf heifers and cows in our program with great success. He continually kicks out a tight birthweight range and to date we have assisted one calf on 90 born. His YW and WW index sits at 106% in our herd. With 11 sons selling between both the 2-year-olds and yearlings, it is no doubt why visitors pick his sire group out of both pens as some of their favorites.

PLEASANT DAWN VESSEL 195H

We purchased this outstanding bull in 2021 and were devastated by the loss of him shortly after breeding season. Even worse, our semen supply is limited. Thus, we treat it like gold, using it on only the best potential mating's and in our sync IVF flushing program. Whenever we are looking for new herd sires, we find ourselves always saying "well that was a good one, but he can't replace Vessel." Look at the meat, length and hair that this stud exemplified. Since we can't find a replacement, we will try and recreate him through offspring. Besides his look, his EPD's rank in the top 1% for WW, YW and MTL, not to mention top 4% for marbling and 10% for milk. Our Herdtrax rankings shows him with a whopping 116% WW index and 109% YW index. Mark our words that over the next few bull sales here at Highway 21 and Pleasant Dawn Charolais, we will all be wishing this great was still with us. PA Free.

CHAROLAIS REFERENCE SIRES

SIRE	CE	BW	WW	YW	Milk	MTL	CW	REA	FAT	MARB	LY
ELDER'S HOULIO 4H	3.1	1.4	45	102	26	49	27	0.69	0.971	0.84	1.48
PF GENERAL LEE	3.2	3.2	53	101	25	52	22	0.64	0.59	1.11	1.38
LT Lanza 1427	12.7	-3.6	37	93	24	42	16	0.32	1.073	0.76	0.83
MRF PURE POWER 3D	7	-0.5	45	90	21	43	18	0.39	0.514	1.66	0.99
WINSNES GUSTO 956G	-1.3	4.3	46	88	21	44	25	0.5	0.285	-0.98	1.24
WHITE MEADOW GRINGO 20G	15.5	-4	48	84	22	46	9	0.31	1.657	0.97	0.69
LT AFFINITY 6221 PLD	19.1	-6.5	38	80	25	44	8	0.32	1.632	1.07	0.7
BRWW Fall Run 7F	1.5	1.3	50	79	18	43	17	0.14	0.819	0.28	0.61
HWY COMMISSIONER 9028G	13.7	-3.6	38	71	16	35	7	0.29	0.997	0.08	0.68

TURNBULL'S HEAT WAVE 740H

Heatwave is turning out to be one of the most consistent sires we have used. Another descendant of the great Duty Free, it comes as no surprise the performance reigns in the top of his resume with a top 2% EPD for WW, top 10% for YW verified as well by our own 205 index of 110% and 108% on 365 day. But even more impressive is how his calves tested on feed trial. Of the 8 sons selling in this year's sale, they topped the average of the sire groups in the pen with a gain of 4.18 and with only 1 of the sons, testing below 4 lbs per day. You can pick them out in the pen for their consistent type. PA Free.

SOS APEX 139F

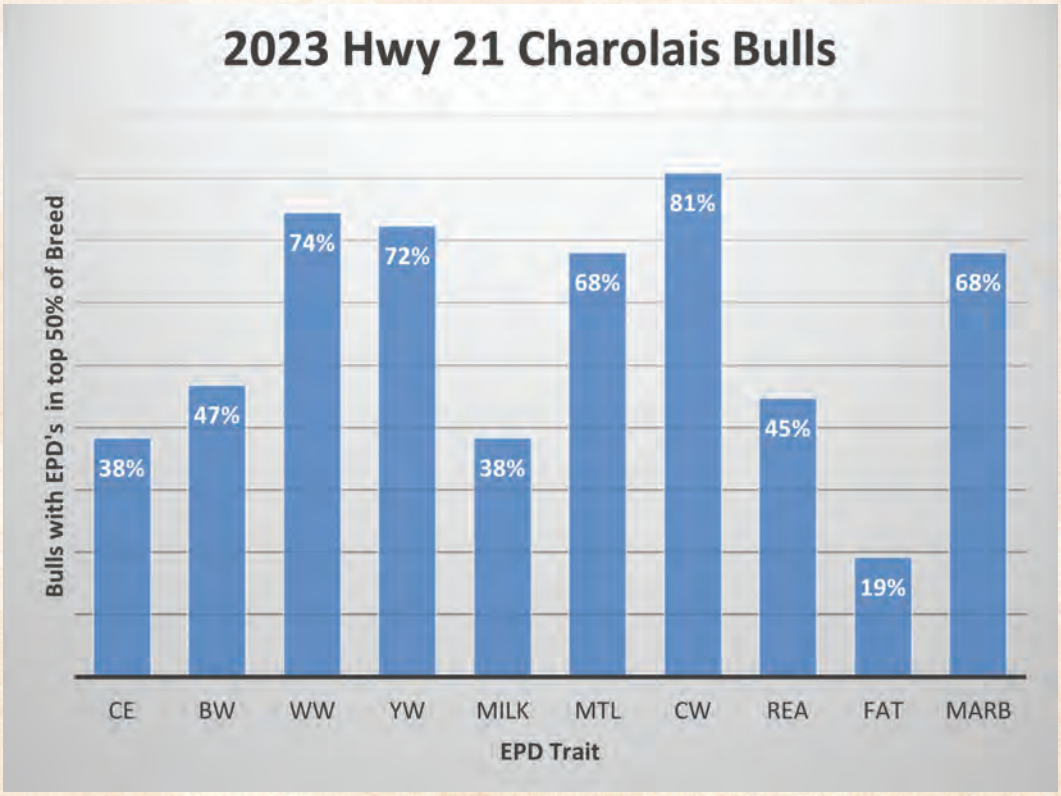
We have been fortunate enough to acquire some progeny off of this 2018 Farmfair Players Club $50,000 jackpot winner through genetics and semen acquired from Mike Panasiuk/Springside Farms. This sire holds a top 10% or better EPD in what we consider the "big 5" of CE, BW, YW, WW and Marb. More impressive is his offspring. Undoubtably, 2 of the favorite calves in the yearling pen are a direct son and grandson, and since birth, they exemplified natural muscle expression.

HOW OUR BULLS
MEASURE UP

Jan 2023 - Canadian Charolais Breed Average Sire EPD's

CE	BW	WW	YW	Milk	MTL	CW	REA	FAT	MARB
5.9	0.5	44.9	86.2	21	43.4	17.1	0.45	0.65	0.22

Our 47 Charolais Bulls



After comparing our Charolais Sale Bulls to the average Canadian Charolais EPD, here is how ours measure up. The percentages represent how many bulls rank in the top 50% for each trait.

HWY Gusto 97J

2nd Gen Polled 3/31/2021 HWY 97J MC818666

CML GUSTO 662D
WINSNES GUSTO 956G
STEPPLER MISS 144Z

SPARROWS LANDMARK 963W
MXS ESMERALDA 438B
MXS ESMERALDA 39X

BW: 108 lbs. AOD: 7 Dam Index: 100.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	-1	2.3	44	86	25	47	22	0.51	0.39	-0.53
%RK	100	80	60	55	10	20	25	30	30	95

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	707	99	2.92	SILVER	935	95	1.43	2.22	SILVER

HWY General Lee 99J

Polled 4/2/2021 HWY 99J MC818902

EATONS GENERAL LEE 20015P
PH GENERAL LEE 96F
PH TATUM 79A

MAIN LEDGER'S SHADOW 26D
MAIN LEDGER'S SHADOW 964G
MAIN LEDGER 622D

BW: 115 lbs. AOD: 2 Dam Index: 104.5 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	-1.5	4.5	71	135	19	55	35	0.73	0.974	1.09
%RK	100	100	1	1	75	3	1	3	65	5

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	790	111	2.98	SILVER	1032	105	1.51	2.3	SILVER

HWY Everglade 106J

4th Gen Polled | 4/26/2021 | HWY 106J | MC818195

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

LM MR 2234Z
LM MISS MCKAY 6101D
LM MISS MCKAY 1212Y

BW: 89 lbs. AOD: 5 Dam Index: 98.4 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	8.5	-1.6	45	87	16	38	15	0.36	0.923	0.1
%RK	30	20	50	50	95	90	60	75	70	60

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	739	102	3.17	GOLD	1032	99	1.83	2.47	GOLD

HWY Everglade 113J

4th Gen Polled | 4/28/2021 | HWY 113J | MC818194

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

NCC SILVER STAR 31T
LM MISS MCKAY 1212Y
LM MISS MCKAY 8105U

BW: 102 lbs. AOD: 10 Dam Index: 189.2 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	5.6	0.4	46	89	15	38	19	0.41	0.695	0.16
%RK	55	50	50	50	95	90	45	65	50	60

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	770	106	3.18	GOLD	1044	101	1.71	2.42	GOLD

HWY Goodyear 115J

Polled | 4/28/2021 | HWY 115J | MC825860

SOS GAUCHO 139D
BRWW FALL RUN 7F
WILLOWBROOK SHIELA 25Z

SOS POLLED DETONATOR 8M
MXS FIRST DATE 450B
MXS FIRST DATE 959W

BW: 116 lbs. AOD: 7 Dam Index: 99.2 Doc: 2

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	0.8	2.6	53	95	19	45	23	0.38	0.568	1.03
%RK	95	85	15	30	70	35	20	65	40	10

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	750	104	3.09	SILVER	1039	100	1.81	2.5	GOLD

HWY *Lanza* 135J

4th Gen Polled 5/6/2021 HWY 135J MC818533

WINN MANS LANZA 610S
LT LANZA 1427 PLD
LT BRENDA'S EASE 3055PLD

MAIN SILVER SHADOW 30W
MAIN SILVER SHADOW 115Y
MAIN FERRUGO 920W

BW: 105 lbs. AOD: 7 Dam Index: 104.7 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.5	-1	34	82	26	44	16	0.38	0.517	0.71
%RK	45	25	100	80	10	60	70	75	30	20

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	755	93	3.09	SILVER	1086	99	2.07	2.65	PLAT.

HWY *Pure Power* 141J

2nd Gen Polled 5/6/2021 HWY 141J MC818537

ANJOU PURE POWER 184Y
MRF PURE POWER 3D
PALE LADY SARA 12A

POST ALASKA 836A
POST MISS ALASKA 740D
POST XELLA 740X

BW: 107 lbs. AOD: 8 Dam Index: 107.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	5.7	0.2	39	77	22	41	16	0.36	0.136	1
%RK	55	40	85	85	45	75	70	80	15	10

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	761	94	3.19	GOLD	1017	93	1.61	2.38	SILVER

HWY *Pure Power* 145J

Homo Polled 5/9/2021 HWY 145J MC818542

ANJOU PURE POWER 184Y
MRF PURE POWER 3D
PALE LADY SARA 12A

POST ALASKA 836A
POST MISS ALASKA 740D
POST XELLA 740X

BW: 108 lbs. AOD: 8 Dam Index: 107.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	6.9	0.7	43	84	20	42	18	0.34	0.365	1.23
%RK	40	50	60	55	60	70	50	85	30	3

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	897	111	3.85	ELITE	1188	108	1.82	2.73	PLAT.

If you like a little extra muscle, you can't go wrong with these Pure Power sons. This bull has ranked in the top of his pen for performance since birth. His dam carries one of the highest HAPI indexes in the herd. His maternal half brother is Hwy Everglade 146J and as you can see in the catalogue, the genetics on this dam carry through with multiple sires.

Sire to 145K
MRF PURE POWER 3D

KOOLE
Livestock Hauling
403-934-0988

HWY Everglade 146J

Homo Polled 5/9/2021 HWY 146J MC818543

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

POST ALASKA 836A
POST MISS ALASKA 740D
POST XELLA 740X

BW: 100 lbs. AOD: 8 Dam Index: 107.8 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	5.7	-0.2	50	91	19	44	18	0.37	0.517	0.09
%RK	55	35	30	40	60	40	45	70	40	60

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	828	101	3.55	GOLD	1185	104	2.23	2.89	ELITE

One of the longest bulls in the pen. Like his maternal brother, Hwy Pure Power 145J, performance is no stranger to this guy. The Everglade lineup is easily found in both the yearling and the 2-year-old pen.

Like you, we believe success is built on hard work and strong communities.

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Darcy Waddle
Director of Agricultural Markets (Central Alberta)
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HWY *Everglade* 155J

Homo Polled 5/9/2021 HWY 155J MC818551

TURNBULLS DUTY-FREE 358D
RGP EVERGLADE 31G
RGP ROXANNE 31Y

POST ALASKA 836A
POST DESTINY 119D
GOLD-BAR PASSION 119S

BW: 110 lbs. AOD: 6 Dam Index: 109.4 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	7.8	-0.4	49	93	19	43	20	0.3	1.254	0.4
%RK	40	45	30	35	75	50	30	90	85	45

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	912	112	3.91	ELITE	1227	108	1.97	2.86	ELITE

If you're looking for another great Everglade son that you can scratch in the pen, this is the one. This bull stands out with his thickness yet smooth makeup, and because of that is one of the no miss picks of the entire pen. His performance is second to none. His flush mates have passed the selection criteria and are calving right now as first calf heifers.

HWY *Pure Power* 160J

2nd Gen Polled 5/7/2021 HWY 160J MC818552

ANJOU PURE POWER 184Y
MRF PURE POWER 3D
PALE LADY SARA 12A

POST ALASKA 836A
POST DESTINY 119D
GOLD-BAR PASSION 119S

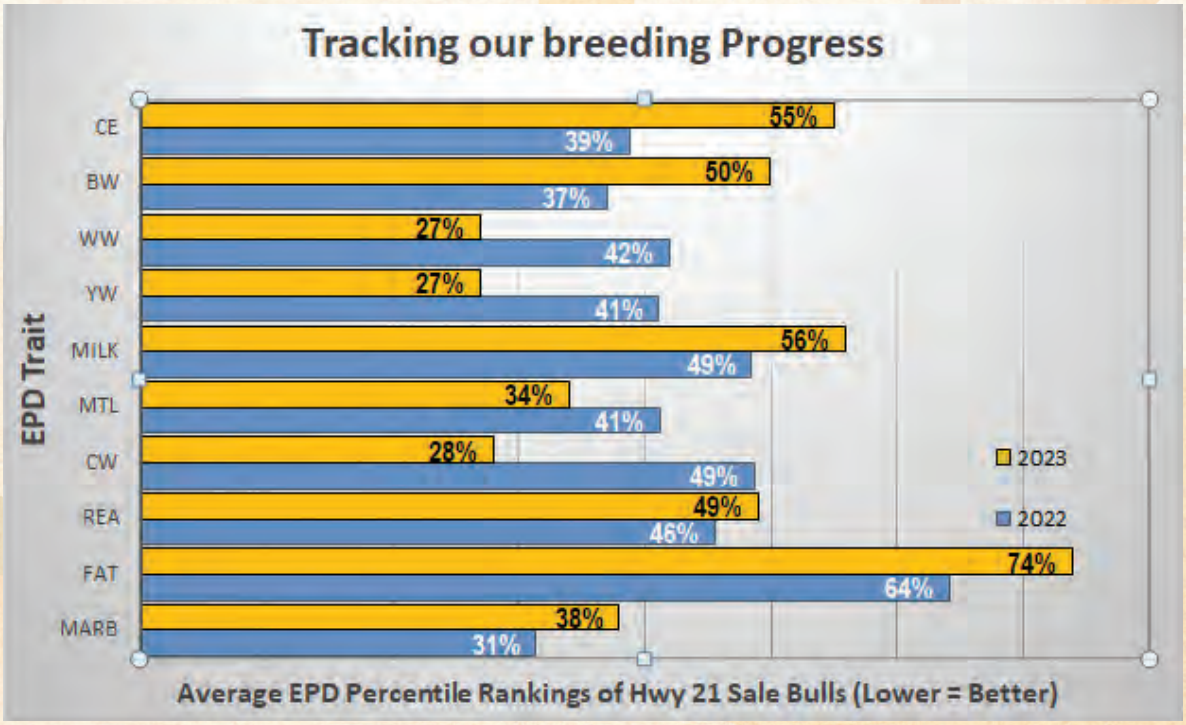
BW: 120 lbs. AOD: 8 Dam Index: 109.4 Doc: 3

	CE	BW	WW	YW	MILK	MTL	CW	REA	FAT	MARB
EPDS	4.6	2.1	45	86	20	42	21	0.34	0.568	0.74
%RK	70	80	50	60	70	65	35	85	35	25

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	713	87	2.89	SILVER	1013	89	1.88	2.49	GOLD

Always Growing

Here at Highway 21, we are always pushing ourselves and our herd to reach new heights!



HWY Odin 1014J

POLLED 02/04/21 HWY 1014J

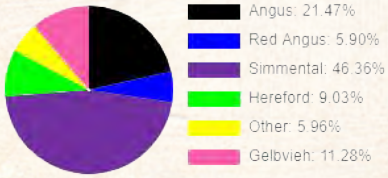
OLF ODIN U5
KWA ODIN 29A — Hwy 9411G
KWA MS ENTICER 45Y

BW: 96 lbs. AOD: 2 Dam Index: 101.5 Doc: 3 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	608	87	2.50	SILVER	1069	96	2.70	2.60	GOLD

FEED CONV. INFO	RFI	CONV.$
	-0.20	Plat.

Hybrid Index: 71



HWY Odin 1019J

POLLED 02/13/21 HWY 1019J

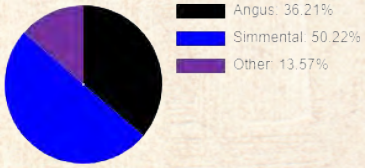
OLF ODIN U5
KWA ODIN 29A — Hwy 9110G
KWA MS ENTICER 45Y

BW: 80 lbs. AOD: 2 Dam Index: 100.3 Doc: 3 CE: 3

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	609	88	2.58	SILVER	1100	99	2.85	2.72	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-0.29	Plat.

Hybrid Index: 60



HAVE YOU CONSIDERED?

One of the best ways to maintain your heterosis in your replacement females is to breed with composite bulls so you do not stack or dilute one breed over another. In this sale group, there is an excellent selection of dual-purpose sires that will produce outstanding females. We have their ancestry's maternal indexes to help select for your specific breeding goals.

HWY *Emblem* 1057J

SCURRED 04/21/21 HWY 1057J

SAV RAINDANCE 6848
SAV Emblem 8074 Hwy 4111-B
SAV EMBLYNETTE 2369

BW: 63 lbs. AOD: 7 Dam Index: 100.4 Doc: 2 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	678	94	3.00	GOLD	1135	102	2.91	2.95	PLAT.

FEED CONV. INFO	RFI	CONV.$
	1.54	Silver

Hybrid Index: 30

HWY *Witness* 1073J

POLLED 04/21/21 HWY 1073J

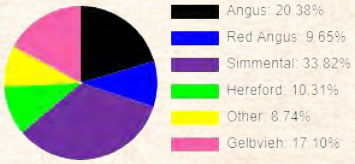
OLF OTIS Y43
LCDR Witness 541C Hwy 3140A
WS MOTHER LODE W21

BW: 103 lbs. AOD: 8 Dam Index: 104.3 Doc: 3 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	778	109	3.29	PLAT.	1163	105	2.67	2.92	PLAT.

FEED CONV. INFO	RFI	CONV.$
	0.49	Gold

Hybrid Index: 79



HWY *Tycoon* 1092J

POLLED 04/22/21 HWY 1092J

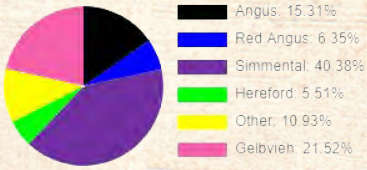
SVS BROOKS 669D
SVS Tycoon 841F Hwy 3191A
SVS RED ANNIE 411B

BW: 107 lbs. AOD: 8 Dam Index: 101.6 Doc: 2 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	768	108	3.22	GOLD	1139	103	2.59	2.84	GOLD

FEED CONV. INFO	RFI	CONV.$
	-0.88	Elite

Hybrid Index: 75



HWY Witness 1097J

POLLED 04/23/21 HWY 1097J

OLF OTIS Y43
LCDR Witness 541C Hwy 5938C
WS MOTHER LODE W21

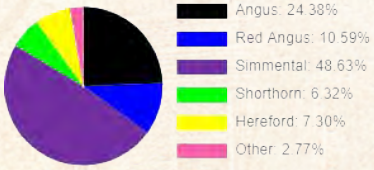
BW: 102 lbs. AOD: 6 Dam Index: 104.5 Doc: 2 CE: 1

What can we say about this one, or more so what can't we say. Long, deep, smooth, stylish, full of performance and feed efficiency out of a top indexing dam. Nothing more needs to be said.

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	817	115	3.49	PLAT.	1215	109	2.79	3.06	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-0.60	Plat.

Hybrid Index: 68



HWY Witness 1106J

POLLED 04/23/21 HWY 1106J

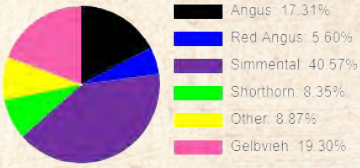
OLF OTIS Y43
LCDR Witness 541C Hwy 3332A
WS MOTHER LODE W21

BW: 112 lbs. AOD: 8 Dam Index: 105.5 Doc: 3 CE: 3

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	780	110	3.26	GOLD	1160	104	2.64	2.89	GOLD

FEED CONV. INFO	RFI	CONV.$
	0.86	Silver

Hybrid Index: 75



HWY Witness 1126J

POLLED 04/24/21 HWY 1126J

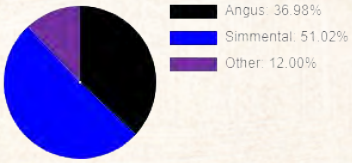
OLF OTIS Y43
LCDR Witness 541C
WS MOTHER LODE W21
Hwy 5035C

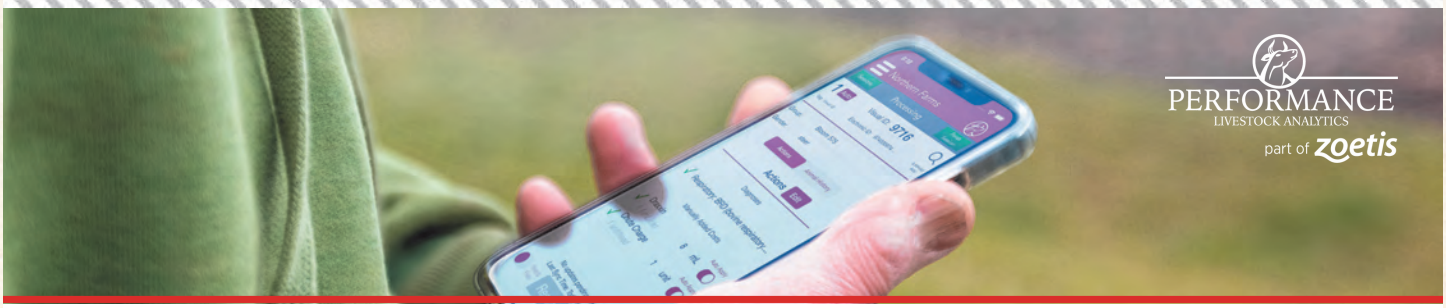
BW: 96 lbs. AOD: 6 Dam Index: 103.2 Doc: 2 CE: 3

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	833	116	3.59	PLAT.	1225	110	2.79	3.10	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-0.75	Elite

Hybrid Index: 59





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POLLED 04/27/21 HWY 1162J

HF THUNDERBIRD 146Y
PM THUNDERBIRD 14'14 Hwy 2135Z
KFC 205 VALLEY 9703W

BW: 75 lbs. AOD: 9 Dam Index: 102.1 Doc: 2 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	741	103	3.25	GOLD	1085	98	2.46	2.78	GOLD

FEED CONV. INFO	RFI	CONV.$
	-0.70	Elite

Hybrid Index: 68

HWY Tycoon 1173J

POLLED 04/28/21 HWY 1173J

SVS BROOKS 669D
SVS Tycoon 841F Hwy 5359C
SVS RED ANNIE 411B

BW: 95 lbs. AOD: 6 Dam Index: 106.6 Doc: 2 CE: 1

When you see this bull, you'll agree that it's not just the straw in the picture that makes him look that deep. He literally is packing that much middle. This one in unique as he is one of the only black Tycoon sons we have raised. Like all of his paternal brothers, performance isn't a question here.

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	811	114	3.49	PLAT.	1348	122	3.41	3.44	ELITE

FEED CONV. INFO	RFI	CONV.$
	-0.25	Plat.

Hybrid Index: 68

HWY *Tycoon* 1186J

POLLED 04/28/21 HWY 1186J

SVS BROOKS 669D
SVS Tycoon 841F Hwy 5846-C
SVS RED ANNIE 411B

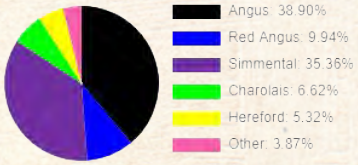
BW: 102 lbs. AOD: 6 Dam Index: 103.4 Doc: 3 CE: 3

Another tighter made, smooth Tycoon son with outstanding performance and feed efficiency.

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	824	116	3.52	PLAT.	1194	108	2.68	3.00	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-1.00	Elite

Hybrid Index: 71



Testimonial

In early 2021 I purchased 2 bulls from The Highway 21 Group. The online platform was easy to navigate and gave me a clear view of what each bull had to offer. It gave me the capability to access data, see photos and look at Herdtrax data on the sires and dams as well as organize the bulls in which order I deemed important. It saved time and gave me confidence in the bulls I chose. A last minute injury on a bull I had owned for years left me short days before breeding season. Lyle leased and delivered a quality bull in less than 24 hours. That bull after 4 weeks broke himself and after a quick text to Lyle on a Sunday afternoon, a replacement was delivered by Joe the next day before noon. Excellent customer service. Great breeding bulls. This fall when Dr. Wise preg checked my herd of around 100 head, I had 100 percent conception rate. Very pleased to deal with Highway 21 Group.
- **Kurt Hagel**

HWY *Tycoon* 1204J

POLLED 05/03/21 HWY 1204J

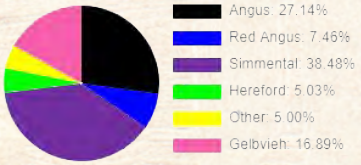
SVS BROOKS 669D
SVS Tycoon 841F
SVS RED ANNIE 411B
Hwy 5060C

BW: 80 lbs. AOD: 6 Dam Index: 100.6 Doc: 3 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	881	123	3.91	ELITE	1196	108	2.55	3.06	PLAT.

FEED CONV. INFO	RFI	CONV.$
	0.53	Gold

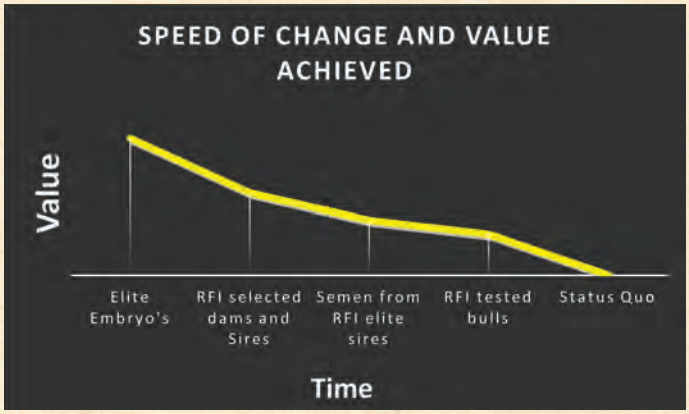
Hybrid Index: 74



If you are looking for a lighter birthweight Tycoon son, this is right one from the pen. However, he is still packing the power, performance, muscle and depth like his father and brothers.

The Highway 21 Differnce

How well does your Management Practices Promote Advancement in Feed Efficiency?



HWY *Odin* 1212J

POLLED 05/04/21 HWY 1212J

OLF ODIN U5
KWA ODIN 29A HWY 5379C
KWA MS ENTICER 45Y

BW: 76 lbs. AOD: 6 Dam Index: 99 Doc: 3 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	711	99	3.10	GOLD	1027	92	2.30	2.61	GOLD

FEED CONV. INFO	RFI	CONV.$
	0.68	Gold

Hybrid Index: 61

HWY *Witness* 1244J

POLLED 05/01/21 HWY 1244J

OLF OTIS Y43
LCDR Witness 541C Hwy 5971C
WS MOTHER LODE W21

BW: 102 lbs. AOD: 6 Dam Index: 104.7 Doc: 2 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	780	110	3.31	PLAT.	1262	114	3.11	3.19	ELITE

FEED CONV. INFO	RFI	CONV.$
	1.74	Silver

Hybrid Index: 63

HWY *Tycoon* 1245J

POLLED 05/01/21 HWY 1245J

SVS BROOKS 669D
SVS Tycoon 841F — Hwy 3164a
SVS RED ANNIE 411B

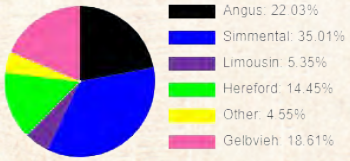
BW: 108 lbs. AOD: 8 Dam Index: 104.6 Doc: 3 CE: 2

The best feed efficiency bull in the pen. Enough has been said about these Tycoon sons. Its like a broken record talking about performance. All I can say about this one is that we would be keeping him for ourselves if we didn't already have another Tycoon son we are using in our program.

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	880	124	3.76	ELITE	1242	112	2.71	3.11	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-2.47	Elite

Hybrid Index: 77



HWY *Tycoon* 1284J

POLLED 05/06/21 HWY 1284J

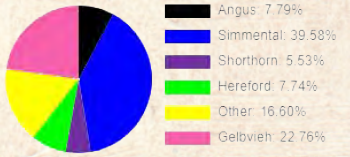
SVS BROOKS 669D
SVS Tycoon 841F — Hwy 3372A
SVS RED ANNIE 411B

BW: 104 lbs. AOD: 8 Dam Index: 103.2 Doc: 2 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	816	116	3.47	PLAT.	989	89	1.80	2.43	SILVER

FEED CONV. INFO	RFI	CONV.$
	-0.20	Gold

Hybrid Index: 75



HWY *Bender* 1286J

POLLED 05/09/21 HWY 1286J

HWY 6731D
HWY 6731D — Hwy 3249A
HWY 3080A

BW: 108 lbs. AOD: 8 Dam Index: 106.2 Doc: 3 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	836	120	3.55	PLAT.	1190	107	2.63	2.97	PLAT.

FEED CONV. INFO	RFI	CONV.$
	1.72	Silver

Hybrid Index: 67

HWY *Tycoon* 1291J

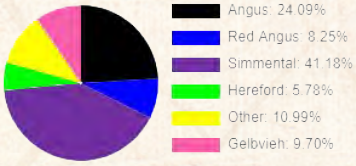
POLLED 05/09/21 HWY 1291J

SVS BROOKS 669D
SVS Tycoon 841F — Hwy 5463C
SVS RED ANNIE 411B

BW: 116 lbs. AOD: 6 Dam Index: 100.4 Doc: 2 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	828	119	3.47	PLAT.	1199	108	2.68	2.97	PLAT.

Hybrid Index: 74



HWY *Thunderbird* 1336J

POLLED 05/20/21 HWY 1336J

PM THUNDERBIRD 14'14
Hwy Thunderbird 8493 Hwy 1023-Y
HWY 4224B

BW: 83 lbs. AOD: 10 Dam Index: 113.6 Doc: 3 CE: 1

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	900	127	3.98	ELITE	1160	105	2.35	2.95	GOLD

FEED CONV. INFO	RFI	CONV.$
	0.66	Gold

Hybrid Index: 66

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To stay competitive and profitable, you are challenged to look at both sides of the equation – the day-to-day costs, trends and influences on your bottom line, as well as the key operational considerations. Get the most from your operation, with our help.

Chub Lundago, Senior Manager, Business Development | 403.596.6952 | chub@mnp.ca

Wherever business takes you MNP.ca

HWY *Dr. Juneau* 1369J

POLLED 05/16/21 HWY 1369J

DEER RIVER JUNEAU 91C
DEER RIVER JUNEAU 467F Hwy 5049C
DEER RIVER BARBARA 264C

BW: 90 lbs. AOD: 6 Dam Index: 101.4 Doc: 3 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	824	118	3.58	PLAT.	1222	110	2.84	3.10	PLAT.

FEED CONV. INFO	RFI	CONV.$
	-0.49	Plat.

Hybrid Index: 66

One of the best angus-based bulls in the pen with matching performance to that of his Simmental pen mates

HWY *Thunderbird* 1453J

POLLED 06/15/21 HWY 1453J

PM THUNDERBIRD 14'14
Hwy Thunderbird 7386
HWY 3178A

BW: 88 lbs. AOD: Dam Index: Doc: 3 CE: 2

PERF METRICS	ADJ 205	WEAN RATIO	WEAN ADG	WEAN$	ADJ 365	YRLG RATIO	POST WEAN ADG	WPDA	ADG$
	914	135	4.03	ELITE	1136	102	2.33	2.85	GOLD

FEED CONV. INFO	RFI	CONV.$
	0.90	Silver

Hybrid Index: 64

COMPOSITE REFERENCE SIRES

Name	Breed	Sire BW	Progeny	Progeny BW AVG"	WADG	WW Index	YADG	YW Index	Wean-Yrlg
KWA ODIN 29A	Simmental	75	294	85	2.45	104	2.50	102	2.48
PM THUNDERBIRD 14'14	Angus	88	180	83	2.45	103	2.53	103	2.55
HWY 6731D	Crossbred	89	25	89	2.58	99	2.84	108	2.60
SVS TYCOON 841F	Simmental	103	23	97	3.40	115	2.86	107	2.51
HWY THUNDERBIRD 7386	Crossbred	102	22	82	2.59	102	2.85	102	2.33
HWY THUNDERBIRD 8493	Crossbred	93	20	90	2.92	106	2.77	103	2.33
LCDR WITNESS 541C	Simmental		18	93	3.06	107	2.76	106	2.49
SAV EMBLEM 8074	Angus	83	10	82	3.18	106	2.75	105	2.60
DEER RIVER JUNEAU 467F	Angus	89	8	83	2.96	108	2.65	102	2.39

KWA ODIN 29A

As the saying goes, "If it's not broke, don't fix it." This Simmental Sire holds the record in our herd with 295 progeny and 110 retained for the herd (37%). He bred for 8 years naturally which speaks to his longevity and structure. He ranks in the top 4% for BW in CSA. All his calves born here have averaged 85 lbs and overall have a 104% index for WW and 102% index for YW. Check out his 3 descendants in this year's bull pen.

LCDR WITNESS 541C

We used this Simmental sire for 1 year thus far in our AI program. Out of 18 progeny, 10 heifers were selected for replacement and 5 bulls for offering. Canadian Simmental ranks him in the top 1% for WW and YW. For us, his calving ease is in check with an average gestation length of 279 days, average BW of 93 lbs and 0% assisted births. He boasts a 205 day index of 107% and a 365 day index of 106% within our herd.

SVS TYCOON 841F

Tycoon was used in our AI program in 2020. That might be the last time as well, only because his semen is so popular that we have now been told that it fetches $800 per straw at auction. Is it worth that? The Simmental Assoc ranks him in the top 1% for WW and YW indexes and in the top 30% or greater for an additional 7 attributes they measure. With 700+ progeny registered to him, accuracy on these results are proven. In our program, we were fortunate to have 23 progeny, of which 7 are on offer, 7 heifers have been retained for breeding and 1 outstanding son is being retained for use in our program. (Our apologies to everyone that seen him and marked him down as their favorite as well). What likely no one else knows about him is how his progeny test for Feed Efficiency. We can tell you that 11 of the 15 tested are in the top of their group and he boasts a -0.55 RFI average, 115% index for WW and 107% for YW in our herd. No doubt that semen value is worth every penny.

THUNDERBIRD 14'14

This Angus Sire is a descendant of the famous Hamilton Farms Kodiak. Angus ranks him in the top 25% for CE, top 20% for WW and top 10% for YW. He ranks second in our herd for progeny born at 181 head, 52 of them retained in our herd (29%) with an average of a 103% index for both WW and YW. He is the sire of one of some of our rising stars which have continued to add more of his grandsons/dams to our program. Thunderbird runs deep here with 3 sons or grandsons selling.

When the Miller family and I sat to discuss nutrition for the Purebred Cattle we both had one clear goal in mind, “Feed the cattle in a safe and responsible way in order to maximize the genetic potential of these Bulls when they go to their new homes”.

These cattle have been raised on a high roughage diet with adequate energy in order to maintain strong breeding soundness throughout the growing phase. It is highly important that we have a balanced ration with Protein and Energy requirements being met so the fibrolytic and starch digesting bacteria can symbiotically metabolize the feedstuffs provided for these cattle on a daily basis. We believe at Cargill Animal Nutrition that we understand that as well as anybody in the industry with the use of our Beef Max software. I, along with the Miller family have spent an extensive amount of time and effort into understanding the feedstuffs and nutrients they exhibit on the Miller Ranch. Last fall the Miller’s got set up with the Cargill Version of Performance Beef in order to measure and verify daily growth and maintenance requirements of these cattle. This technology assists in proper daily feeding management which in turn benefits the cattle by maintaining a consist plane of nutrition in order to meet maturation requirements for these Bulls.

These bulls have been raised on a Chelated Mineral and balanced Vitamin program in order to ensure proper immune responses as well as maximize scrotal development and enhance semen quality.

With the costs associated with producing a calf today its highly important that we select a bull that will add profitability to your calf crop by way of “Pounds of Beef.” It is also important that the genetics you purchase last as long as possible. These are two key traits you can trust the Miller Family put FIRST when it came to raising and developing these cattle.

Yours Truly,

Trevor Moebis
Ruminant Specialist
Cargill Animal Nutrition

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GrowSafe RFI Quick Facts

FREQUENTLY ASKED QUESTIONS

What are the benefits of selecting for low residual feed intake (RFI) animals*:

- Reduction of overall feed intake by up to 12% while maintaining the same level of production
- Reduction in the maintenance requirements of the herd by 9-10%
- Improvements in the feed conversion rates of calves of from 9-15%
- Reduction of manure NPK production by 17% and greenhouse gas emissions such as methane, by 30%

What does this mean for a cow herd?

By selecting for RFI, or introducing several low RFI bulls into your herd, feed-related savings will continue to increase. Several years of genetic selection will improve the baseline feed efficiency of the ranch and savings will continue to transfer to the cow herd as replacement heifers are retained.

What is Residual Feed Intake (RFI)?

Residual feed intake (RFI) is a measure of feed efficiency that is calculated as the difference between an animal's actual feed intake and it's expected feed intake. RFI is independent of body weight and size. Differences in the trait cannot be detected by physically looking at an animal, it requires accurate and simultaneous measurement of an animal's feed intake and body weight. Animals with low RFI values are more efficient than those with high RFI values.

What is the heritability of RFI?

RFI is a moderately heritable trait (26-58%), and when used as a selection tool, will result in progeny that consume less feed for the same level of production. RFI is independent of growth, body size and other performance traits, meaning that selection for animals with low RFI will lead to reduced feed intake and improved feed efficiency without compromising body size or growth.

*Residual Feed Intake (Net Feed Efficiency) in Beef Cattle. (2006, July). Retrieved January 3, 2019, from https://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex10861/$file/420_11-1.pdf?OpenElement

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04/19 GS190115-NA

Does selection for low RFI animals, that eat less, result in reduced performance and average daily gain (ADG)?

No, selection for RFI does not result in cattle with reduced performance and ADG. Efficient and inefficient cattle can have both high and low ADGs. To prevent a decline in performance, it is important to select for low RFI animals with sufficient ADG. GrowSafe does not recommend single trait selection.

How is RFI calculated?

RFI is calculated as the difference between an animal's actual feed intake and their expected feed intake. An animal's expected feed intake depends on its body size and growth rate. The calculation for expected feed intake is comprised of data from the entire contemporary group using the animals' dry matter intake, mid-test metabolic body weight and average daily gain data. The GrowSafe data analysts use the data captured automatically and continuously by the Feed Intake technology to determine each individual animal's actual feed intake, which is compared to their expected feed intake. Concurrently, the highly accurate partial body weights collected from the GrowSafe Beef® technology are used to determine each individual animal's average daily gain and body weight.

Example:

	Expected Intake	Actual Intake
Animal A	8.5	10
Animal B	10	9.5

- Animal A: RFI = 10 – 8.5 = 1.5
- Animal B: RFI = 9.5 – 10 = -0.5

Animal B is more efficient because it has a lower RFI value and because it eats less than expected for its size and level of production.

GrowSafe SYSTEMS®

Cow/Calf Health and Management Solutions (CCHMS) collaborates closely with the Highway 21 Group to manage their entire herd through an integrated and comprehensive health and production management program. Decisions are made using individual and ancestral progeny data that promotes performance and feed efficiency, while recognizing the importance of welfare, fertility and phenotype in replacement selection. Detailed data is collected on each individual animal at all key health and production points and is kept in a secure web-enabled database called Herdtrax®. Seamless transfer of the bulls' records (including ongoing health, parentage and performance data of future ancestral progeny) can be transferred directly to buyers that are already enrolled on the Herdtrax® management network, and this will allow for the continual flow of data back and forth between the ranch and the buyer. This sharing of information will provide insight into which bulls are thriving in the buyer's program and guide future purchasing decisions. This also provides invaluable feedback to the source ranch to help build on the indexing of reference bloodlines.

Vaccination Program

Highway 21 Group follows a detailed vaccination program to help ensure that the cattle stay healthy and continue to thrive after being delivered:

Calves are vaccinated within the first 10 days of life:

- IBR/PI3/BRSV (MLV) – Inforce 3® (intransal)
- *Mannhaemia hemolytica*, *Pasteurella Multocida* – Once® PMH IN (intranasal)

Calves are vaccinated in the spring with the following:

- IBR/PI3/BRSV (MLV) – Inforce 3® (intransal)
- BVD (MLV) and *Mannhaemia hemolytica* – One Shot® BVD
- 7 way Clostridial and *HIstophilus Somnus* – Ultrabac® 7/Somnubac®

Calves are vaccinated at weaning with the following:

- IBR/PI3/BRSV/BVD (MLV) and Mannhaemia – Bovi-Shield® GOLD One Shot®
- 7 way Clostridial and *HIstophilus Somnus* – Ultrabac® 7/Somnubac®
- Parasite Control – Topical ivermectin.

Replacement heifers are vaccinated pre-breeding:

- IBR/PI3/BRSV/BVD (MLV) – Bovi-Shield® GOLD FP®5 (Fetal Protection)

Cows, bred heifers, bulls are annually vaccinated post-breeding:

- IBR/PI3/BRSV/BVD (MLV) – Bovi-Shield® GOLD FP®5 (Fetal Protection)

Bulls prior to the sale have been vaccinated and treated with the following:

- *Fusobacterium Necrophorum* – Fusoguard™ (footrot and liver abscess vaccine)
  - Two doses given twice 60 days apart
- Lice Control – Permethrin

Bulls prior to the delivery will be boostered, and ready for turnout:

- IBR/PI3/BRSV/BVD – Bovi-Shield® GOLD FP®5

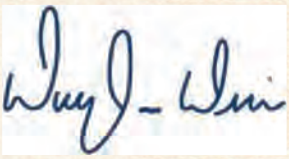
Breeding Soundness Examination

Each bull has passed an extensive *Bull Soundness Examination* which includes soundness of structure, palpation of testis and internal sex glands, scrotal circumference, examination of the penis as well as verifying sufficient sperm motility and morphology. Bulls that are considered to be 'Satisfactory' are competent to breed cows.

CCHMS is proud to work with Highway 21 Group and if there are any questions, please contact me and I can always find the time to talk about genetics and this remarkable, dynamic industry.

Congrats on an outstanding pen of bulls!

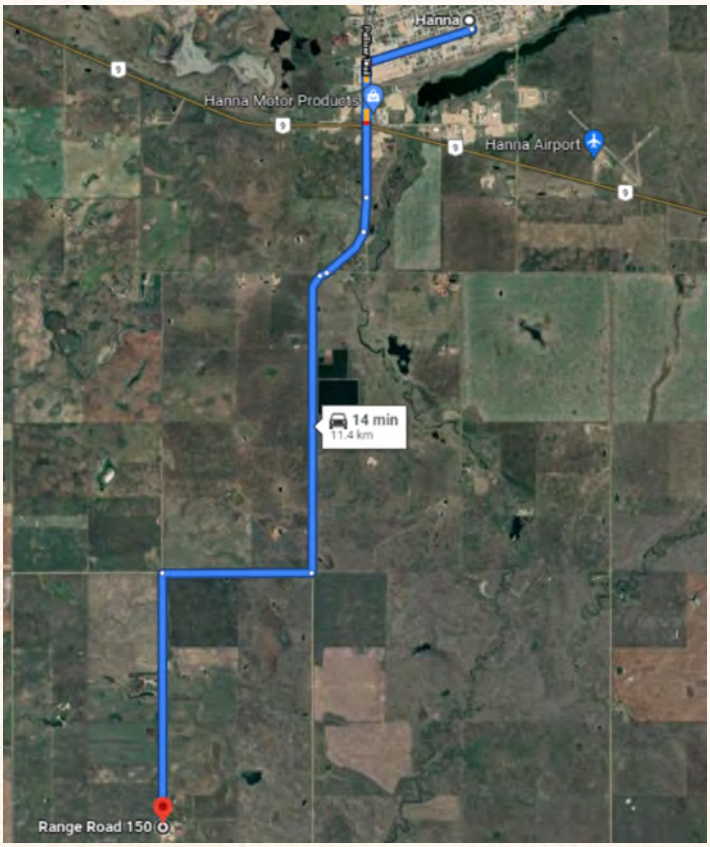
Dr. Waylon Wise BSc. Ag, DVM



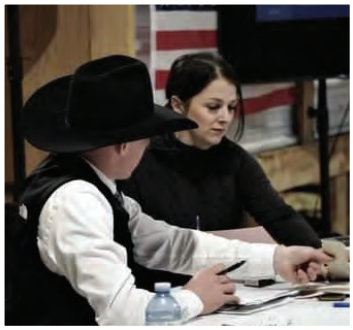
Come Visit Us!

We would love to have you - come tour the pens and chat with us about the offering! You are always welcome here!

DIRECTIONS TO THE RANCH



AROUND *the* RANCH



A HUGE THANK YOU TO LAST YEARS BUYERS

Your continued support in our program is greatly appreciated

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NOTES:

TERMS & CONDITIONS

Terms:
The terms of the sale are cash or cheque, payable at par at the sale location. The right of property shall not pass until after settlement has been made; no invoicing on buyers in attendance, unless previous arrangements have been made. Every animal sells to the highest bidder and in cases of disputes, the auctioneer's decision will be final. Current exchange rates will be announced sale day. All monies are in Canadian funds.

Bidding:
Each animal will sell to the highest bidder... no by-bidding will be permitted. Disputes - Bidding will be reopened between the parties involved in dispute. If no further bidding is made, the buyer will be the person from whom the auctioneer accepted the last bid. The auctioneer's decision on all disputes will be final.

Announcements:
All announcements made from the auction block will take precedence over the printed matter in the catalogue. Buyers are therefore cautioned to pay close attention to such disclosures.

Breeders Guarantee:
The breeders guarantee is laid out at the start of the catalogue. Furthermore, no guarantee is given that semen collected from a bull will freeze.

Exception Guarantee:
In cases where the animal is subjected to any hormonal or surgical reproduction techniques after the sale, this guarantee shall be null and void.

Certificate of Registration:
Each animal will carry papers issued by the Canadian Charolais Association. A certificate of registry duly transferred will be furnished to the buyer for each animal after payment has been made.

Pedigree Estimates
Pedigree Estimates (PE) are created on the projected mating of the animal's sire and dam based on averages of the two, creating estimated values that do not hold the same accuracy of actual EPDs issued from the association and should be used as such.

Liabilities:
All persons attend the sale at their own risk. The seller, facility owner and sale manager assume no liability, legal or otherwise, for any accidents that occur. It is understood that T Bar C Cattle Co. (2013) Ltd. is acting only as a medium between buyer and seller and is not responsible for any failure on the part of either party to live up to his obligations. Neither does T Bar C Cattle Co. (2013) Ltd. assume any financial obligations to collect or enforce collection of any monies between parties and any legal action that may in exceptional cases be taken must be between the buyer and the seller. T Bar C Cattle Co. (2013) Ltd. assumes no responsibility for any credit extended by the seller to the buyer. The buyer must look to the seller for fulfillment of all guarantees and representations made hereunder.

Rights and Obligations:
The above terms and conditions of the sale shall constitute a contract between the buyer and seller and be equally binding to both. Resale of animals following purchase in this sale shall constitute a separate transaction and the rights and obligations of the two parties connected thereto are not covered by the terms and conditions of this sale.

Phone, Mail, Wire Bids:
Bidders unable to attend the sale may phone, wire or mail their bids and instructions to the sale managers, auctioneer or special representatives. Bids must be received in sufficient time prior to the sale.

Insurance:
If you wish to obtain your own insurance, we advise you contact Larry Toner with Stockmen's Insurance at 306-834-7652 to learn more about their terms and rates.

Errors:
All announcements at sale time, written or oral, supersede any written material in the catalogue.

Return Undeliverable Canadian Addresses To:

T Bar C Cattle Co. Ltd.
Box 2330
Warman, SK S0K 4S0