

# FLECKVIEH WORLD

The magazine for Fleckvieh/Simmental breeders

Semen Quality  
Management

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**BAYERN  
GENETIK**

Perfect Match.

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# Bayern-Genetik GmbH

[www.bayern-genetik.com](http://www.bayern-genetik.com)**Headquarters Grub**

Senator-Gerauer-Straße 19  
85586 Grub/Post Poing  
Phone: +49 (0) 89-99 15 20-0  
Fax: +49 (0) 89-99 15 20-66  
eMail: [grub@bayern-genetik.de](mailto:grub@bayern-genetik.de)

**Headquarters Landshut**

Altenbach 2  
84036 Kumhausen  
Phone: +49 (0) 8 71-9 53 10-0  
Fax: +49 (0) 8 71-9 53 10-10  
eMail: [landshut@bayern-genetik.de](mailto:landshut@bayern-genetik.de)



In July our Export Team met at the headquarters in Grub. We discussed the current development of the markets and also had some time for a team event. Photo: BGT

**Editor**

Martin Zirnbauer-Heymann

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**Publisher**

Heimert Elements  
Inh. Dennis Heimert e. K.  
Beverstraße 1a  
37574 Einbeck  
Phone: +49 (0) 55 61 - 93 36 - 0

**The Fleckvieh-World is real!**

The cattle photos published in the Fleckvieh-World are not retouched. Cattle that are photographed are only allowed to be shared, washed and treated with oil, powder and gloss spray.

**Cover 2024/2025****Lies 256, a powerhouse**

Marcel Harbers is straightforward about it. „Lies 256 is a strong thunder. She is not big but broad. Moreover, she does it very easily. She calves, starts up, and gives 45 to 50 liters a day. And she just keeps going. A remarkable cow.“

Here are the numbers that make Lies 256 so special:

Pedigree: Lies 256, 50 % Fleckvieh, Sire: BFG Rurex

Production: in 8<sup>th</sup> lactation, 100,914 kg of milk with an average of 37.2 kg of milk per day with 4.38 % fat and 3.42 % protein. LW: 107.

Insemination: 1.75. Calving interval: 382 days.

Classification: Frame 91, Type 93, Udder 90, Legs 87, Overall 90, AV: 90.

Photo: Els Korsten

# Dear Fleckvieh breeders, Dear customers and friends of Bayern-Genetik



The year 2024 flies by and is full of „Fleckvieh highlights“. In the last issue I told you about winning cows at some German and especially Bavarian Fleckvieh shows at the beginning of 2024. In this issue you will find an article with the winning cows of our sires at some Italian shows. Enjoy the pictures of the cows!

Another highlight was the World Simmental Fleckvieh Congress in Canada at the end of July. The headline was „one breed - one world“, Fleckvieh enthusiasts from all over the world came together. Canada is a great country with great people - see the article about this great event in this issue!

The great strength of Fleckvieh is certainly its ability to function in the most diverse conditions all over the world. It thrives on an organic farm in Kentucky - read the article about the Melvin Troyer family's Rainbow Dairy farm!

It is also successful in a hay feeding system. Interested? Then take a look at the article about hay milk and health on the Lentz family farm in Belgium.

Our sires are carefully selected - only the best can be at our station! After they arrive at the station it is important for us to meet the highest quality standards in semen production. You can read more about this in the article Semen quality assessment during and after production! An upcoming highlight will be EU-ROTIER 2024 in Hannover. I hope to see you at this great event!

And one last highlight in these short words: we have launched a new Facebook page for our international partners and farmers: read about it in this issue and follow us on Facebook!

If you would like to keep up to date with the latest news, please visit our website for the latest information or to sign up for our newsletter.

Yours sincerely,

**MARTIN ZIRNBAUER-HEYMANN**



Compost barn with a view.

Photo: Popp

## Organic Farmers working together in Guthrie, Kentucky

***Rainbow Dairy, owned by the Melvin Troyer family is situated roughly an hour and half drive north of Nashville, Tennessee. It is also where they operate a feed mill (KOFFI) that provides organic feed for farms in Kentucky, Tennessee and neighboring states.***

No doubt the family is very busy. Nathan, Melvin's son, oversees much of the dairy farm and the Troyers have been using Fleckvieh

for well over ten years. Initially, we did a lot of the breeding work over the phone by description of the cows and working toward

the goals of the herd. The question at the time also was whether the herd may lose too much milk when breeding to purity and using



Fleckvieh cows on pasture in Kentucky.

Photo: Popp



Heifer on compost.

Photo: Popp



MEERHOF-daughter.

Photo: Popp



Portale chickencoop.

Photo: Popp

an organic system. Rainbow Dairy targets higher milk yields in winter months as they can do well with production in the climate and the premiums they receive with Organic Valley, their milk processor. After ten years of breeding and the cows being upwards of 87.5% Fleckvieh, the herd pushes mid to upper seventies pounds (approx. 35 kg) for milk with 4.1% - 4.4% fat and 3.4% protein. Somatic cell count also remains low and cows do well on rebreeding. Unprecedented, during this higher beef price market, is also the income generated from organic beef. Much of the USA dairy industry advocates breeding lower quality

cows to Angus. With dual purpose Fleckvieh, the increase in beef has already been manifested for years and buyers are looking for Fleckvieh as they know how well the animals will perform. Growth performance and carcass data consistently shows Fleckvieh outperform Dairy\*Angus cross. The Troyers along with many other neighboring organic and conventional dairies work together when possible. They share their knowledge by periodically getting together for field days. Farms within the area generate added income with custom work, organic pastured poultry, dog breeding, sweet potatoes and many other innova-

tive ideas. Grazing is a big part of dairy farming in the area and when we did a field day on March 16 the cows were beginning their time on pasture.

Many of the farms employ Bill Weekes aAa system and combine it with the classification of the bulls by Bayern Genetik as Robust, All-around and Sharp. This creates good balance in the cows' phenotype. For long time followers of Bayern Genetik, we have seen Enrico and Rurex do well on these herds. Currently, Meerhof, Hex Hex and Wolfsegg are producing some nice daughters.

**DR. JOHN POPP**



„Since April, our cows have been outside day and night, and in winter, we feed them only hay and a little concentrate feed. We farm like in the old days with today's knowledge and modern techniques,” says Rainer Lentz.

Photo: Lentz

## Are hay and hay milk really healthier?

***The Lentz family farm is taking part in a study of the properties of its milk for use in cheese, quark and butter production. The results are remarkable.***

The AWE study, called Diversilait, is being carried out in Wallonia and the German-speaking part of Belgium. The Lentz family has 135 Fleckvieh cows, which are organically raised and fed only fresh grass and hay plus an average of 2 kg of concentrates per cow per day throughout the year. Over the past 12 months, the cows have produced an average of 6.800 kg of milk per cow with 4.07 % fat and 3.52 % protein. In addition, the Diversilait study revealed very different figures. Rainer Lentz explains:

**Longer lifespan:** „Since 2017 we only feed fresh grass and hay. Since then, the average age of the herd has increased to 5.7 years, which is 1 year older than the Wallonian average. Fertility is good, with a calving interval of 377 days. The cows are also in better condition. We currently milk 78 cows that are in their 3<sup>rd</sup> lactation or older. They produce 27 liters per day and, with day and night grazing, receive no more than 2 kg of concentrate per day.“

**Milk properties:** „The composition of milk is different. It contains

twice as many healthy fatty acids. The milk also curdles much faster and has a lower cell count. This is partly due to the Fleckvieh breed, but also to the diet. Unfortunately, our dairy does not pay us extra for this healthy milk. Fortunately, we sell about 35 % of our milk directly to businesses such as bakeries, cheesemakers and yoghurt/custard makers. These companies value our milk. This is necessary because the extra cost of the hay drying plant is about 5 cents per liter.“



Cow No. 38: 11<sup>th</sup> lactation BFG Mandela. Production over 10 lactations: 6.800kg of milk with 4.01 % fat and 3.65 % protein. Calving interval: 378 days. Photo: Lentz



Cow No. 124: 9<sup>th</sup> lactation BFG Waldbrand. Production over 8 lactations: 7.800kg of milk with 4.19 % fat and 3.72 % protein. Calving interval: 363 days. Photo: Lentz

**Mortellaro almost gone:** „The most remarkable thing for me is that Mortellaro has disappeared by 95 %. Last winter we only had 2 cases. This is a known phenomenon on farms that feed only fresh grass and hay. Contrary to popular belief, Mortellaro is not just a hygiene problem, but is mainly related to the extra resistance of the cows. By feeding only fresh grass and hay, cows have a good and stable pH in the rumen, resulting in better overall health and longevity. Good quality hay is better than silage. With hay, there is less loss than with silage due to the short time on the field and the artificial drying process.

**STEF BEUNK**

**No Mortellaro Thanks to Hay**

Hay-milk is big business in the Alpine region. „Hay-fed cows have no problems with Mortellaro,“ reveals Bavarian dairy farmer Markus Fischer.

Fischer milks 90 Brown Swiss cows and has had a hay drying system since 2013. This means hay and fresh grass in the summer and 23 kg of hay, 3 kg of grass pellets and concentrates in the form of CCM in the winter.

„What stands out for us is that we no longer have any problems with Mortellaro, even though we have significant overcrowding in the barn. I believe this is because hay, unlike silage, is pH neutral. This results in healthier animals, higher feed intake and easier digestion. Fischer’s cows produce an average of 8.700 kg of milk with 4.40 % fat and 3.88 % protein. „With low concentrate feed costs of 5 to 6 cents per kg of milk, which is low for an organic farm. Since we started feeding only fresh grass and hay, we have increased our milk production by about 10,000 kg per cow over their lifetime.“



Cow No. 71: 6<sup>th</sup> lactation BFG Helderberg. Production over 5 lactations: 7.400 kg of milk with 4.05 % fat and 3.46 % protein. Calving interval: 355 days. „She is one of my favorite cows, although she is currently very milk typical.“ Photo: Lentz



Cow No. 46: 8<sup>th</sup> lactation BFG El Pais. Production over 7 lactations: 7.600 kg of milk with 3.68 % fat and 3.43 % protein. Calving interval: 360 days. „A cow with an excellent type. She has already given us 4 Rijeka daughters who are doing great. I am using Rijeka again because they have a long lifespan and improve every year.“ Photo: Lentz

# Semen quality assessment during and after production

***Assisted reproduction techniques (ARTs) have been routinely used in farm animals for several decades. Artificial insemination, which was first used in the 1930s, offers an efficient way of introducing the genetics of the insemination bulls into the population on a large scale. Today, the main focus is on the rapid increase in breeding progress, however reducing the risk of spreading generally transmitted diseases and other diseases also continues to play a role. The quality of the semen used is particularly important for successful insemination. For this reason, quality standards that an ejaculate must meet before use, were introduced early on.***

A large number of factors influence the quality of the semen. In addition to the individual steps of semen collection and processing, such as semen collection frequency, semen collector, semen processing, diluent, equilibration time and the freezing process, physiological characteristics of the bull itself (breed, age, genetics and health) and environmental factors (husbandry, feeding, temperature and climate) affect semen quality. For example, the size of the bull's testicles can influence the sperm count of the ejaculate. Approximately 60 days before semen collection, temperature (e.g. heat stress) and humidity can lead to changes in sperm morphology. 30 or 10 days before semen collection, these factors influence the forward motility of the sperm. Good husbandry conditions and comprehensive health management of the insemination bulls therefore contribute to high semen quality.

## **First semen quality assessment during production**

The first macroscopic and microscopic assessment of semen quality takes place during production. Here we routinely evaluate and record:

- Volume: bulls up to 2 years: 2 ml, bulls older than 2 years: 4 ml
- Appearance: Consistency creamy to milky; color ivory to white or yellow
- Morphology: < 20 % sperm abnormalities, maximum 5 % head and 10 % acrosome defects
- Sperm concentration (density): 600 Million sperm cells per milliliter
- Mass movement: undisturbed and at least 70 % progressively forward moving sperm cells (motility)
- Odor of the native ejaculate

In addition, attention is paid to the presence of foreign cells and cell agglutination. Determining the pH value (6.4-7.0) and osmolarity can also be helpful but is only carried out if necessary. Ejaculates showing abnormalities in one or more parameters are excluded from further production.

Determining the density of the ejaculate using photometry enables a quick quantity assessment of sperm per milliliter of ejaculate with subsequent dilution. Therefore, a reduction in the quality of

the ejaculate due to long standing times can be avoided through rapid processing. Many of the spermatozoological parameters determined further are based on an examination of the semen using a phase contrast microscope. On the one hand, the ability of the native sperm cells to form a wave-like or fish-swarm-like mass movement is checked here. In a second step, an initial morphological assessment is carried out and the movements of the individual cells are checked. This is then used to estimate the percentage of „progressively forward-moving“ sperm, i.e. the proportion of male germ cells that move forward in a straight line or in large circular paths through active tail movements.

Official guidelines for semen quality in native and frozen semen after thawing are laid down and regularly updated by the Bundesverband Rind und Schwein (BRS) in BRS Recommendation 8.2 „Recommendations for breeding bulls used for artificial insemination and natural service“ and BRS Recommendation 8.3 „Guaranteed quality of commercially available bull semen“. The insemination stations are committed to fulfill and check the quality criteria listed here.



**Assessment of semen morphology**

In addition to the classic spermato-logical quality criteria, such as motility and viability, sperm morphology is of great importance for successful fertilization. The shape, size and structure of the sperm cell is strongly linked to its function, which includes acrosome reaction, capacitation and fertilization ability, and varies even within different breeds of cattle. Changes in morphology are therefore often reflected in reduced forward motility, fertilization rate and deteriorated non-return rate<sup>56</sup> (NRR<sup>56</sup>). In addition to physiological and environmental effects, errors in the freezing process can also lead to severe morphological damage (e.g. acrosome defects and changes in tail shape) and render the semen unusable for insemination. Bayern-Genetik routinely checks the morphology in the fresh semen of young bulls and, at regular intervals, of older bulls to ensure the consistent and best possible quality of the ejaculates and to identify abnormalities as early as possible.

**Spermatological tests on frozen semen: motility, viability and concentration**

The fertilization capacity of an ejaculate cannot be determined by a

single test, but only by a combination of different tests. To ensure the quality of frozen semen, Bayern-Genetik carries out a series of spermatological tests in its in-house laboratory.

After freezing, the concentration, the progressive motility and the so-called viability of the semen in the straw are determined again.

**Computer-assisted motility analysis (CASA)**

Computer-assisted sperm analysis (CASA) enables a precise and objective motility analysis of ejaculates before and after freezing.

Due to the computer-assisted assessment of the samples and the associated objectivity, more precise statements can be made about the quality and potential fertilization capacity of the ejaculate. For this purpose, short video sequences of the sperm sample are recorded using a camera linked to the microscope and the progressive forward movement of the sperm is calculated. Frozen semen after thawing, which has less than 50 % forward-moving sperm and contains a total of less than 6 million forward-moving sperm, is sorted out and destroyed due to poor quality.

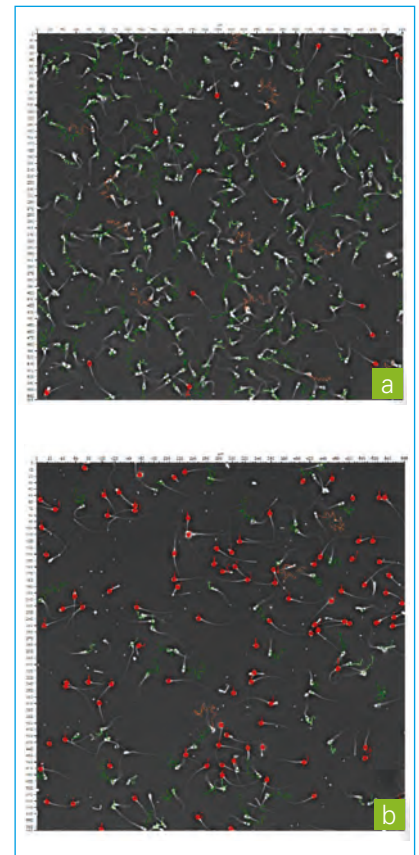


Figure 1: Determination of progressive forward mobility using CASA.

- a) Sample with good forward mobility
- b) Sample with poor forward mobility

**Determination of viability and concentration**

After freezing, each production batch is routinely subjected to a new concentration measurement to determine the exact sperm density. Furthermore, the viability of

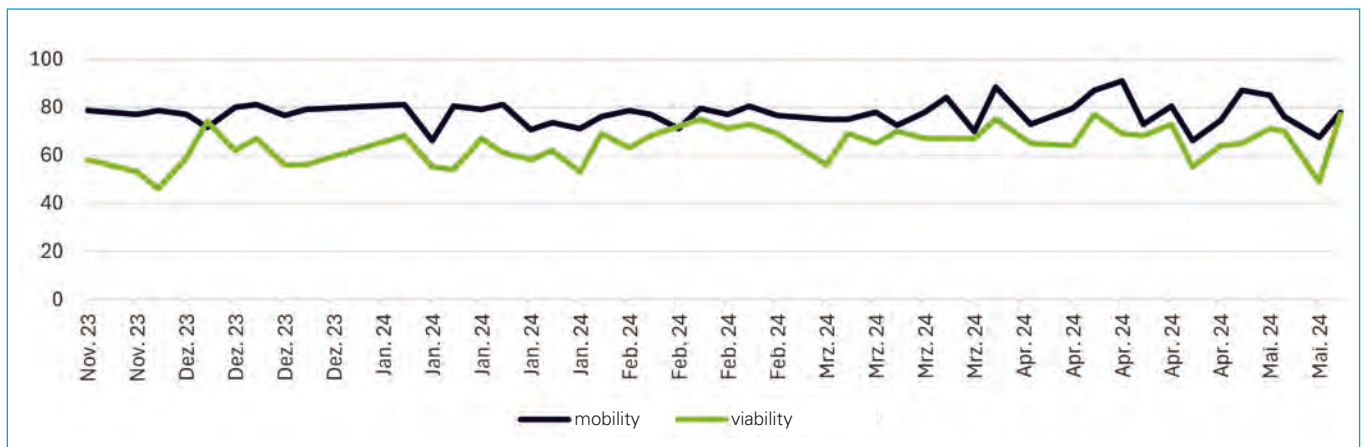


Figure 2: Correlation between forward mobility and viability.

the semen is checked. The viability refers to the proportion of sperm with an intact plasma membrane (living sperm) in relation to the proportion of sperm with a defective plasma membrane (non-viable sperm). Although forward motility naturally correlates with sperm viability, not all motile sperm are viable. Numerous studies have shown that viability correlates strongly with fertilization ability, making this an important quality criterion for sperm quality.

### Semen quality management at BAYERN GENETIK

In order to provide our customers with the highest level of quality, in 2010 Bayern-Genetik established state-of-the-art methods for checking the quality of the ejaculates produced and has constantly adapted them to the current state of the art over time. Semen produced before this period are also re-examined to ensure that all semen portions currently being distributed are of a consistently high

quality. In addition, Bayern-Genetik voluntarily participates in a quality management program in which we send samples of the produced semen monthly to an accredited laboratory for independent testing of the spermatological quality parameters. This external assessment of sperm quality provides additional security in maintaining our highest quality standards.

**DR. SIMONE JUNG**  
**DR. JAKOB SCHERZER**

## Bayern-Genetik Delegation in China

***For the first time since the Corona outbreak in 2020, it was possible to travel to China last November. Bayern-Genetik and its predecessor organisations have been active in dual-purpose Fleckvieh for more than 25 years.***

We are also part of a German-Chinese animal breeding project. As part of this project, a symposium was held in Beijing in November 2023. A delegation consisting of Peter Baumgärtel, Gengsheng Ying-Taub-

ner, Martin Zirnbauer-Heymann, the managing director of the Mindelheim drying cooperative, Mr Martin Fischer, and the farm manager of the Hof Burgösch energy production and bull fattening farm, Herrmann

Specht, travelled to Beijing. The potential of the dual-purpose Fleckvieh breed is increasingly being recognised worldwide. As Bayern-Genetik, we are at the heart of this issue, not just on the sidelines!



Symposium in Peking.

Photo: DLG AgroTechService und ADT Project Consulting



Bayern-Genetik Fleckvieh in South Africa.

Photo: Jan van Dyk

## Exciting News: Bayern Genetik International

***We are thrilled to announce the launch of our brand-new publicity campaign for Bayern Genetik products on Facebook! Join us and connect with us under Bayern Genetik International.***

We have a range of photos and messages lined up for publication, but we also want to hear from **you!** Share your photos and short texts regularly – about your organization, your customers and their experiences, your distributors, and everything Fleckvieh.

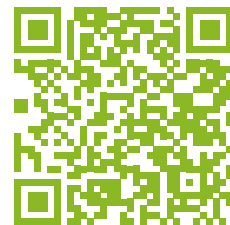
Make your organization proud and let your voice be heard. Receive feedback from all over the world about your work and achievements. Share your passion for Bayern Genetik's Fleckvieh. Give yourself the extra motivation you deserve.

Send your photos and texts to:

- E-mail:  
**Arend@bayerngenetik.nl**
- WhatsApp:  
**Arend Zendman**  
**+31 6 1330 1075**

**Let's create something extraordinary together!**

<https://www.facebook.com/profile.php?id=100090571793432>





Maxibulls station at Deronje, Serbia.

Photo: Orak

# Maxibulls: A strong Partner of Bayern-Genetik

***Bayern-Genetik is an international company specializing in Fleckvieh breeding. Our mission is to promote the Fleckvieh breed globally, leveraging decades of experience working with farmers and organizations around the world. We offer top-tier genetics of the highest quality, aiming to provide the perfect match for each farmer. Our focus is not only on reproduction but also on improving animal quality, ultimately increasing farmers' profitability. Achieving this is only possible through a robust network of partners.***

Our perfect match in Serbia is Maxibulls, d.o.o. Since 2015, we have partnered with them to deliver the highest quality semen directly to farmers in Serbia. Fleckvieh, known as Simmental in Southeast Europe, is the dominant breed in Serbia, accounting for about 70 % of the total cow population. While Vojvodina, an autonomous province in northern

Serbia, has traditionally been home to larger Holstein farms, recent challenges such as low milk prices and high production costs have led some farmers to begin crossbreeding with Fleckvieh, following trends in advanced dairy markets across Europe. In southern Serbia, smaller family farms have long relied on Fleckvieh as the only profitable option.

In recent years, Serbia's agricultural sector has seen significant advancements in livestock breeding techniques. The establishment of Maxibulls, d.o.o., the first private artificial insemination station and an extension of Bayern-Genetik, has played a crucial role in enhancing the quality of local livestock.



Sires at the Maxibulls station.



Photo: Sretenovic



Maxibulls laboratory

Photo: Sretenovic

Maxibulls specializes in offering cattle breeders superior genetics through locally produced semen from top bulls like Moremi PP, Rijeka, Eisenhower, Zapatero, Montechristo, among others. Additionally, there is a broad selection of semen from leading bulls imported from Germany. The Maxibulls sales team maintains daily contact with their customers, ensuring satisfaction with the quality of animals, improved breeding efficiency, and ultimately, increased productivity.

By recruiting and investing in qualified and professional staff, particularly veterinarians, Maxibulls ensures the highest standards of support for its partners. This support includes advice, training, and communication with field colleagues to improve animal care and reproductive success.

We also remember our late colleague, Dr. Ivan Jeremic, who tragically passed away during the peak of the Covid-19 pandemic in 2021. Ivan, a key figure at Maxibulls from its inception, is fondly remembered by all who knew him, both professionally and personally.

Dr. Milovanovic, the resident veterinarian at Maxibulls, has taken over semen production following Ivan's passing. He is also responsible for maintaining the overall health and welfare of the animals. Regular health checks, necessary treatments, and preventive measures, as required by government legislation, are conducted on-site to ensure that the animals are in optimal condition for successful semen production and conservation.



Dr. Ivan Milanovic.

Photo: private

Our team of experts acts as genetic consultants, guiding breeders in selecting appropriate sires and optimizing breeding strategies. They analyze genetic data, assess animal compatibility, and make recommendations to enhance desired traits in the offspring. Their expertise empowers breeders to make informed decisions and achieve their breeding goals.

We view our partnership with Maxibulls as a perfect match to contribute to the improvement and strengthening of the Fleckvieh breed in Serbia. Through this collaboration, we aim to provide the best possible support to local farmers, enabling them to continue achieving maximum profitability on their farms in the future.

**DR. ANTONIO ORAK**



Fleckvieh cows in Serbia.

Photo: Sretenovic



Impressive Fleckvieh Bull.

Photo: Reger

# One Breed, one World World Fleckvieh Simmental Congress in Canada

***From July 29<sup>th</sup> to August 5<sup>th</sup> the Canadian Simmental Association (CSA) hosted the 2024 World Simmental Fleckvieh Congress in Canada. Under the headline „One Breed, One World“ Simmental/ Fleckvieh breeders from around the globe gathered in Calgary and Olds, Central Alberta.***

## **Day 1: Get together**

On the first day we were part of the WSFF General Assembly (World Simmental Fleckvieh Federation) and heard a lecture about resilience of Simmental cattle by PhD student Franziska Keßler, University of Hohenheim. Fleckvieh shows positive trends compared to other breeds like Brown Swiss and Holstein

when it comes to dealing and recovering from challenging environmental issues.

The TOP of the evening was a very interesting presentation by Richard Pichler (AUT) and Georg Röhrmoser (GER) from the foundation of the Federation to today's Congress. Both of these members together with Josef Kučera (CZ) were ho-

nored. The evening was concluded with the presentation of the traditional „White Hats“ Awards.

## **Day 2: Mader Ranches and AgSmart Expo**

On Day Two we visited the seedstock farm Mader Ranches, Carstairs Alberta. Some interesting insight into the beef breeding methods



Fleckvieh heifer at the CSA sale. Photo: Müller



Meeting up with passionate Fleckvieh breeders in Alberta, Canada.

Photo: Gonzalez

were explained and showed, e.g. the crossbreed with Angus (Simmangus), which are Purebreed Simmentals with max. 12,5 % Angus. In the afternoon we went to Olds, where the Olds College of Agriculture & Technology produced the educational expo AgSmart. It focused on data and technology across the agriculture industry with topics like sustainable land use, irrigation and cattle breeding.

**Day 3: Banff & Kananaskis**

Day three led us to the Rocky Mountains, where we enjoyed the breathtaking landscapes and beautiful town of Banff National Park.

**Day 4: Tour of Anchor D Simmental and Clearwater Simmental**

**Day 5: Technical Sessions and World Simmental Sale**

In the morning four interesting presentations took place at the Werkbund Agriculture and Technology Centre, Olds College. Moderated by Chip Kemp (ASA, IGS), Dr. Paige Pratt (Neogen), Dr. Wade Shafer (IGS), Dr. Alycia Chrenek (Zoetis) and Dr. Kee Jim (Beef on Dairy) discussed topics like the Use of Genomics to Increase Profitability, global efforts on multi-breed beef cattle evaluation with Genomics, Sustainability: A Holistic Approach

in Agriculture and the future of Dairy-Beef in Cattle Production. In the afternoon the Bohrsen Marketing Services held a big event surrounding a World Simmental Sale. Prospective buyers could buy livestock like bulls, cows/calves and heifers but also Flushes of Embryos, a choice of progeny out of a herd or already inseminated embryos.

**Day 6: YCSA National Show and CSA's Banquet**

On Saturday the day started at the Young Canadian Simmental Association's National Show, where

young breeders and enthusiasts showcased their top animals in different categories.

In the evening the Friends of Canadian Simmental Foundation together with the CSA welcomed to a Banquet with Fundraiser Auction. The wonderful evening concluded with popular Country songs performed by George Canyon.

**Day 7: Farewell**

On Sunday it was time to say goodbye.

**DR. MATTHIAS REGER**



Bayern-Genetik Export team at the World Simmental Fleckvieh Congress.

Photo: Gonzalez

Polled father or not polled father –

# that is not the question at the search of the best udder Fleckvieh cows in Italy this year

***Many Fleckvieh breeders in Italy not only focus on breeding values when selecting bulls, but also on conformation. The udder in particular must be perfect.***

It is particularly pleasing that both at the regional show in Trentino at the beginning of April 2024 and at the regional show in Unterpusterl at St. Lorenzen at the beginning of May 2024, a cow with Bayern-Genetik sires was the winner. Both the hornless and the horned sire left nothing to be desired!

## **Show Trentino 07.04.2024:**

Every two years the Fleckvieh breeders of Trentino meet to present a selection of their best Fleckvieh cows. The dedicated breeder families from the province bordering South Tyrol exhibited a total of 35 animals. The collection of exhibited animals was once again impressive. The overall winner, a



Photo: Südtiroler Rinderzuchtverband

Votary daughter from Waldbrand, had the South Tyrolean judge Matthias Wenter in raptures. The third

calf cow was presented by Virginio Gabrielli and his sons.

## **Show Unterpusterl-Gadertal 04.05.2024:**

The Fleckvieh and Sprinzen Show in St. Lorenzen took place in Unterpusterl-Gadertal. Around 120 animals were exhibited in various categories. Middle age champion cow and udder champion Elfriede was an Etoscha daughter presented by Gatterer Elias.

One great show will follow up in Italy in November. We are looking forward to the Euregio Fleckviehshow in Bozen on 23.11.2024 – for sure we will see great cows there, too!



Photo: Südtiroler Rinderzuchtverband



# New employees



Matthias Reger

Mr. Matthias Reger joined Bayern-Genetik GmbH at the beginning of April 2023 as Sales Manager Cattle national/international.

Mr. Reger studied B. Sc. Agriculture at the Weihenstephan-Triesdorf University of Applied Sciences and M. Sc. Agricultural Engineering at the University of Hohenheim. He then completed his doctorate at the Technical University of Munich at the Chair of Agricultural Systems Engineering in the field of automated dairy cattle feeding, in cooperation with Weihenstephan-Triesdorf University of Applied Sciences and Mayer Maschinenbau GmbH (Siloking). During his academic career, he focused on animal production, agricultural engineering, and economics. Most recently, Mr. Reger worked as a product manager and project

manager at Albert Kerbl GmbH. This gave him an insight into many parts of the company and ensured good cooperation between different people and teams. We are delighted to welcome Mr. Reger to the Bayern-Genetik team and wish him lots of fun and success in his new role!

## Matthias Reger

Phone.: + 49 89 99 15 20 - 14

Mobile: + 49 175 - 438 31 22

e-mail: matthias.reger

@bayern-genetik.de



Dr. Núria González Rodríguez

Originally from Barcelona, Spain, Nuria's journey at Bayern-Genetik began in 2017 in the veterinary and embryo transfer department. Nu-

ria's passion for the fields of reproduction and embryology is evident in her academic pursuits. Alongside her role at Bayern-Genetik, she undertook a comprehensive doctorate, delving deep into embryo freezing techniques for biopsied embryos produced through in vivo and in vitro technologies. Her experience spans across embryo production, superovulation protocols, semen production, and bull health management at our station. This multifaceted experience provides her with a well-rounded blend of skills. Coupled with her natural ability to understand people's motivations through active listening and trust-building makes her well-suited for her new role.

Nuria seamlessly transitioned into her new position as Export Manager. She is enthusiastic about overseeing export operations, engaging with clients across South and North America, as well as the EU. Nuria looks forward to collaborating with her esteemed colleagues, learning from their expertise, and contributing meaningfully to our collective success.

Join us in welcoming Nuria Gonzalez Rodriguez to her new role, and let's look forward to a promising future together!

## Dr. Núria González Rodríguez

Mobile: +49 17 06 85 64 90

e-mail: nuria.gonzales@

bayern-genetik.de

# New employees



Daria Kovalenko

Since the beginning of March, Ms. Daria Kovalenko has been supporting the International Sales team as Export Manager.

Ms. Kovalenko has a bachelor's degree from a Russian agricultural university and successfully completed her international master's degree in agricultural management at the University of Applied Sciences in Weihenstephan-Triesdorf last year. During her studies, she was able to gain a lot of experience in the field of cattle production and was particularly interested in this area for her career entry. Her language skills in German, English and Russian make her an asset to the international team at Bayern-Genetik.

We are delighted to welcome Ms. Kovalenko to the Bayern-Genetik team and wish her lots of fun and success with her tasks!

#### **Daria Kovalenko**

Phone.: +49 89-99 1520-43

Mobile: +49 01 60-1 10 70 97

e-mail: [daria.kovalenko@bayern-genetik.de](mailto:daria.kovalenko@bayern-genetik.de)



Julian Fink

Mr Julian Fink joined the Bayern-Genetik team as deputy sales manager on 19.08.24. Born in Landshut, he studied agriculture at the University of Applied Sciences Weihenstephan-Triesdorf in Freising.

Following his studies, Mr Fink worked as After Sales Manager for Bou-Matic LLC in the regions of Southern Germany, Austria, Switzerland and Slovenia.

We are delighted to have Mr Fink's active support and wish him every success in his new role.

#### **Julian Fink**

Mobile: +49 01 51-19 51 64 84

e-mail: [julian.fink@bayern-genetik.de](mailto:julian.fink@bayern-genetik.de)



# HEX HEX Pp\*

HB-Nr. 866045 | DE 09 54725619 | \*26.03.2019  
 Breeder: Bernhart, Oberneukirchen  
 aAa-Code 564132 | BC: **A2A2** | KC: AA | ET



Photo: Müller



<b>PEDIGREE</b>		<b>LINE:</b> Huch
<b>HOKUSPOKUS</b>	HURLY	HULKOR
DE 09 51718913	Nelle	NARR
		Nelli
<b>Lilara</b>	85-85-88-85	<b>MAHANGO Pp*</b>
DE 09 52237437		MUNGO Pp
3/3	8.616 4,25 3,59	Liral
		<b>HUMPERT</b>
HL: 1	8.577 4,50 3,72 4/4	9.884 4,03 3,68 Lira

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
125 97%	118 99%	110 99%	106 96%

● ALLROUNDSIRE ● SUITABLE FOR HEIFERS

## MILK

	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
1. L	92	8954	+529 7.376	+0,12 4,19	+0,04 3,64

## BEEF 110 99%

Daily gain	<b>110 99%</b>	Dressing perc.	<b>100 98%</b>	Carcass grade	<b>114 99%</b>
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## FITNESS 106 96%

Productive life	<b>107 89%</b>	Persistence	<b>98 99%</b>	Fertility	<b>96 92%</b>
Udder health	<b>110 98%</b>	Cell count	<b>111 99%</b>	Milking speed	<b>87 99%</b>
Calving ease pat.	<b>113 99%</b>	Prod. increase	<b>93 80%</b>	Calf vitality	<b>112 99%</b>
Calving ease mat.	<b>100 98%</b>	Semen fertility	<b>-2%</b>	BIO	<b>120 97%</b>
Milking behaviour	<b>100 89%</b>	Hoof Health Value	<b>93 92%</b>		

## TYPE TRAITS DAUGHTERS: 397 (97%)

	76	88	100	112	124	136
<b>Body</b>	<b>91</b>					
<b>Muscularity</b>	<b>117</b>					
<b>Feet &amp; Legs</b>	<b>107</b>					
<b>Udder</b>	<b>113</b>					
Cross Height	89	small				large
Body Length	93	short				long
Hip Width	95	narrow				wide
Body Depth	95	shallow				deep
Pelvic Angle	102	ascending				slope
Hock Angularity	99	straight				sickled
Hock Development	92	swollen				dry
Pastern	107	weak				strong
Hoof Height	104	low angles				steep angles
Fore Udder Length	105	short				long
Rear Udder Length	100	short				long
Att.of Fore Udder	112	loose				tight
Suspensory Ligament	94	weak				strong
Udder Height	105	deep				high
Teat Length	103	short				long
Teat Thickness	99	thin				thick
Teat placement (front)	99	wide				close
Teat placement (rear)	93	outwards				inwards
Teat direction (rear)	101	outwards				inwards
Udder Purity	99	add. teats				no add. teats

# HRDOBEC

HB-Nr. 606983 | CZ 80.355.035 | \*29.12.2021  
 Breeder: Zichlicka Zemedelska A.S., 33011 Hromnice/CZ  
 BC: **A2A2** | KC: AA



Photo: CHD Impuls



<b>PEDIGREE</b>		
<b>HASHTAG</b>	HAYABUSA	HERZSCHLAG
DE 09 54210676	Maxima	MANDRIN
		Miami
<b>83932</b>	<b>HUTUBI</b>	HUTERA
CZ 609.483.932		
	97932	<b>PASSION</b>

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
138 79%	129 87%	111 76%	113 83%

## MILK

	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
			+1005	+0,05	+0,01

## BEEF 111 76%

Daily gain	<b>105 76%</b>	Dressing perc.	<b>111 77%</b>	Carcass grade	<b>108 75%</b>
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## FITNESS 113 83%

Productive life	<b>111 73%</b>	Persistence	<b>106 80%</b>	Fertility	<b>106 73%</b>
Udder health	<b>108 84%</b>	Cell count	<b>109 80%</b>	Milking speed	<b>112 86%</b>
Calving ease pat.	<b>96 88%</b>	Prod. increase	<b>102 74%</b>	Calf vitality	<b>109 75%</b>
Calving ease mat.	<b>105 77%</b>	Semen fertility	<b>+1%</b>	BIO	<b>132 84%</b>
Milking behaviour	<b>99 66%</b>	Hoof Health Value	<b>106 73%</b>		

## TYPE TRAITS DAUGHTERS: 0 (84%)

	76	88	100	112	124	136
<b>Body</b>	<b>108</b>					
<b>Muscularity</b>	<b>111</b>					
<b>Feet &amp; Legs</b>	<b>116</b>					
<b>Udder</b>	<b>113</b>					
Cross Height	107	small				large
Body Length	105	short				long
Hip Width	107	narrow				wide
Body Depth	107	shallow				deep
Pelvic Angle	95	ascending				slope
Hock Angularity	92	straight				sickled
Hock Development	104	swollen				dry
Pastern	111	weak				strong
Hoof Height	108	low angles				steep angles
Fore Udder Length	103	short				long
Rear Udder Length	109	short				long
Att.of Fore Udder	105	loose				tight
Suspensory Ligament	112	weak				strong
Udder Height	103	deep				high
Teat Length	106	short				long
Teat Thickness	100	thin				thick
Teat placement (front)	96	wide				close
Teat placement (rear)	102	outwards				inwards
Teat direction (rear)	114	outwards				inwards
Udder Purity	102	add. teats				no add. teats



## INGMAR PP\*

HB-Nr. 167777 | DE 09 54486471 | \*08.06.2019  
Breeder: Köppel, Feilitzsch  
aAa-Code 564132 | BC: **A2A2** | KC: AA



Photo: Müller



<b>PEDIGREE</b>		<b>LINE:</b> Redad
<b>IROKES P*S</b>	IROLA PS	ROTAX
DE 09 47633254	Tabea	WYOMING
		Tanne
<b>1005</b>	88-84-80-84	<b>VOLLGAS P*S</b>
DE 09 51271925		VALERO
2/305	8.266 5,08 3,60	902
		<b>HUTERA</b>
HL: 1.	8.266 5,08 3,60	5/4,9
	10.623 4,53 3,75	788

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
115 95%	106 99%	111 99%	106 94%

● **UDDER HEALTH** ● **SUITABLE FOR HEIFERS**

### MILK

	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
100 days	335	8.389	-469 2.563	+0,61 4,33	+0,17 3,36

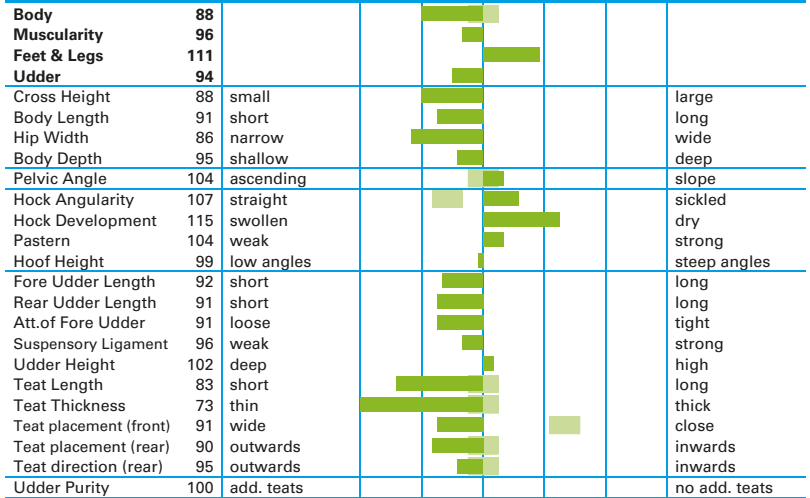
### BEEF

Daily gain	<b>105</b> 99%	Dressing perc.	<b>115</b> 99%	Carcass grade	<b>104</b> 99%
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### FITNESS

Productive life	<b>108</b> 85%	Persistence	<b>105</b> 99%	Fertility	<b>90</b> 90%
Udder health	<b>119</b> 97%	Cell count	<b>120</b> 98%	Milking speed	<b>94</b> 98%
Calving ease pat.	<b>108</b> 99%	Prod. increase	<b>112</b> 78%	Calf vitality	<b>101</b> 99%
Calving ease mat.	<b>106</b> 98%	Semen fertility	<b>+2%</b>	BIO	<b>115</b> 96%
Milking behaviour	<b>99</b> 84%	Hoof Health Value	<b>106</b> 87%		

### TYPE TRAITS DAUGHTERS: 182 (92%)



## MAHOMES P\*S

HB-Nr. 174280 | DE 09 55785056 | \*01.05.2021  
Breeder: Gastinger, Hutthurm  
aAa-Code 462513 | BC: **A2A2** | KC: AB



<b>PEDIGREE</b>		<b>LINE:</b> Metz
<b>MERCEDES Pp*</b>	MINOR	MINT
AT 42 2587 868	Pigas PP*	VOLLGAS P*S
		Pepo Pp *
<b>408</b>	80-79-89-88	<b>MANDRIN</b>
DE 09 53339508		MANDARIN
3/305	9.830 4,90 3,66	308
		<b>WALDBRAND</b>
HL: 2.	9.282 5,06 3,93	7/6
	7.641 5,54 3,73	153

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
132 81%	122 88%	93 79%	123 85%

● **INTERESTING MOTHERLINE** ● **SUITABLE FOR HEIFERS**

### MILK

	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
			+772	+0,00	+0,04

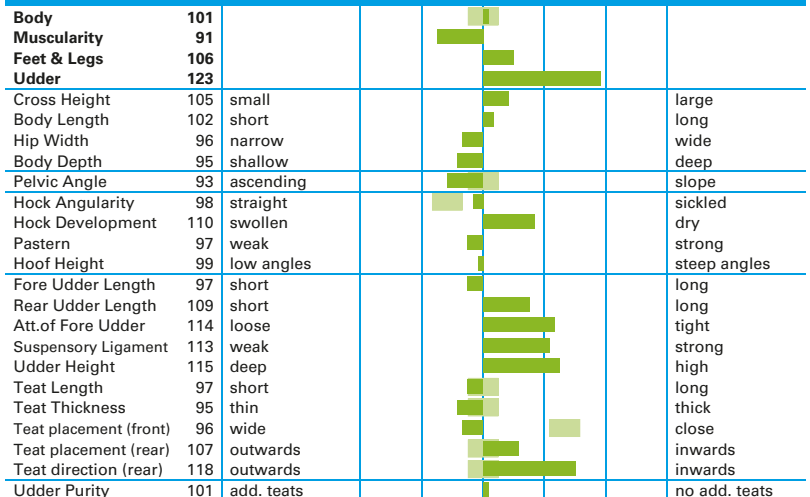
### BEEF

Daily gain	<b>97</b> 79%	Dressing perc.	<b>99</b> 80%	Carcass grade	<b>89</b> 78%
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### FITNESS

Productive life	<b>126</b> 75%	Persistence	<b>104</b> 81%	Fertility	<b>103</b> 76%
Udder health	<b>127</b> 85%	Cell count	<b>124</b> 81%	Milking speed	<b>93</b> 86%
Calving ease pat.	<b>108</b> 99%	Prod. increase	<b>111</b> 79%	Calf vitality	<b>106</b> 96%
Calving ease mat.	<b>107</b> 89%	Semen fertility	<b>+1%</b>	BIO	<b>130</b> 87%
Milking behaviour	<b>100</b> 68%	Hoof Health Value	<b>104</b> 76%		

### TYPE TRAITS DAUGHTERS: (84%)





# MAJESTIX P\*S

HB-Nr. 874306 | DE 09 54893149 | \*22.09.2019  
Breeder: Estelmann, Ingolstadt  
aAa-Code 561432 | BC: **A2A2** | KC: AA | ET



Photo: BGT



<b>PEDIGREE</b>		<b>LINE:</b> Metz	
<b>MAJESTAET PP*</b>	MAHANGO Pp*	MUNGO	
DE 09 52396899	Nicol	VOTARY	
		Natalie	
<b>Beatrix</b>	81-82-88-84	<b>MANOLO Pp*</b>	MANIGO
DE 09 52129406			
1/1	8.384 4,11 3,60	Beauty	<b>INCREDIBLE</b>
HL: 1	8.384 4,11 3,60	6/6	10.292 4,17 3,61
<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
133 95%	110 99%	111 99%	127 94%

●TOP EXTERIOR ●SUITABLE FOR HEIFERS

<b>MILK</b>					
	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
100 days	330	8946	+665 2.897	-0,09 3,92	-0,15 3,23

<b>BEEF</b>				111 99%
Daily gain	112 99%	Dressing perc.	108 98%	Carcass grade
				106 99%

<b>FITNESS</b>					127 94%
Productive life	116 85%	Persistence	120 98%	Fertility	118 89%
Udder health	117 96%	Cell count	119 97%	Milking speed	89 98%
Calving ease pat.	115 99%	Prod. increase	103 79%	Calf vitality	116 99%
Calving ease mat.	102 97%	Semen fertility	-1%	BIO	138 96%
Milking behaviour	106 86%	Hoof Health Value	96 88%		

<b>TYPE TRAITS DAUGHTERS: 228 (96%)</b>						76	88	100	112	124	136
<b>Body</b>	107										
<b>Muscularity</b>	122										
<b>Feet &amp; Legs</b>	113										
<b>Udder</b>	121										
Cross Height	108	small									large
Body Length	108	short									long
Hip Width	106	narrow									wide
Body Depth	100	shallow									deep
Pelvic Angle	112	ascending									slope
Hock Angularity	86	straight									sickled
Hock Development	92	swollen									dry
Pastern	118	weak									strong
Hoof Height	122	low angles									steep angles
Fore Udder Length	106	short									long
Rear Udder Length	97	short									long
Att.of Fore Udder	103	loose									tight
Suspensory Ligament	95	weak									strong
Udder Height	118	deep									high
Teat Length	89	short									long
Teat Thickness	85	thin									thick
Teat placement (front)	117	wide									close
Teat placement (rear)	102	outwards									inwards
Teat direction (rear)	102	outwards									inwards
Udder Purity	104	add. teats									no add. teats



# MASASI PP\*

HB-Nr. 177771 | DE 09 52929945 | \*10.08.2017  
Breeder: Penzkofer, Geiersthal  
aAa-Code 561423 | BC: A1A2 | KC: AA



Photo: BGT



<b>PEDIGREE</b>		<b>LINE:</b> Metz	
<b>MANOLO Pp*</b>	MANIGO	MANDELA	
DE 09 48496774	Fanfee	WAPULS	
		Fanta	
<b>Sona</b>	79-84-84-87	<b>MARMOR PS</b>	MALHAXL
DE 09 47660041			
7/6	8.626 3,89 3,43	Sabine	<b>RUMGO</b>
HL: 4	9.205 3,98 3,56	4/4	7.678 4,45 3,32
<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
123 98%	106 99%	104 99%	120 97%

●TOP EXTERIOR ●SUITABLE FOR HEIFERS

<b>MILK</b>					
	Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
1. L	1239	8140	+370 7.078	-0,07 4,17	-0,06 3,45

<b>BEEF</b>				104 99%
Daily gain	91 99%	Dressing perc.	115 98%	Carcass grade
				98 99%

<b>FITNESS</b>					120 97%
Productive life	125 94%	Persistence	108 99%	Fertility	107 96%
Udder health	113 98%	Cell count	113 99%	Milking speed	90 99%
Calving ease pat.	112 99%	Prod. increase	119 99%	Calf vitality	116 99%
Calving ease mat.	103 99%	Semen fertility	+1%	BIO	129 98%
Milking behaviour	101 89%	Hoof Health Value	106 93%		

<b>TYPE TRAITS DAUGHTERS: 290 (97%)</b>						76	88	100	112	124	136
<b>Body</b>	89										
<b>Muscularity</b>	96										
<b>Feet &amp; Legs</b>	124										
<b>Udder</b>	108										
Cross Height	88	small									large
Body Length	91	short									long
Hip Width	90	narrow									wide
Body Depth	90	shallow									deep
Pelvic Angle	104	ascending									slope
Hock Angularity	104	straight									sickled
Hock Development	115	swollen									dry
Pastern	113	weak									strong
Hoof Height	102	low angles									steep angles
Fore Udder Length	107	short									long
Rear Udder Length	102	short									long
Att.of Fore Udder	96	loose									tight
Suspensory Ligament	121	weak									strong
Udder Height	98	deep									high
Teat Length	96	short									long
Teat Thickness	99	thin									thick
Teat placement (front)	110	wide									close
Teat placement (rear)	114	outwards									inwards
Teat direction (rear)	109	outwards									inwards
Udder Purity	98	add. teats									no add. teats



## MEERHOF Pp\*

HB-Nr. 173293 | DE 09 51465128 | \*14.03.2016  
Breeder: Wimmer, Triftern  
aAa-Code 516342 | BC: **A2A2** | KC: AA



Photo: Müller



**PEDIGREE** **LINE:** Metz

**MAHANGO Pp\*** MUNGO Pp MANITOBA  
DE 09 48097266 Falter ROUND UP  
Falter

**Emila** 85-81-86-88 **VANSTEIN** RANDY  
DE 09 46387007  
8/5,8 8.725 4,20 3,63 Eitel **MALFIR**  
HL: 2017 10.207 4,14 3,71 1/305 7.338 4,45 3,71 Elkona

TMI	MI	BI	FIT
116 96%	114 99%	114 98%	96 95%

● VITAL CALF ● BEEF VALUE

### MILK

Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
1. L	311	8.099	7.171	+543 +0,02 4,20 -0,02 3,43

### BEEF

Daily gain	<b>119</b> 99%	Dressing perc.	<b>111</b> 95%	Carcass grade	<b>106</b> 98%
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### FITNESS

Productive life	<b>104</b> 89%	Persistency	<b>100</b> 98%	Fertility	<b>92</b> 92%
Udder health	<b>95</b> 96%	Cell count	<b>95</b> 97%	Milking speed	<b>101</b> 97%
Calving ease pat.	<b>101</b> 99%	Prod. increase	<b>103</b> 97%	Calf vitality	<b>103</b> 97%
Calving ease mat.	<b>105</b> 96%	Semen fertility	<b>+1%</b>	BIO	<b>112</b> 97%
Milking behaviour	<b>102</b> 83%	Hoof Health Value	<b>88</b> 89%		

### TYPE TRAITS DAUGHTERS: 105 (95%) 76 88 100 112 124 136

<b>Body</b>	<b>106</b>					
<b>Muscularity</b>	<b>113</b>					
<b>Feet &amp; Legs</b>	<b>96</b>					
<b>Udder</b>	<b>102</b>					
Cross Height	103	small				large
Body Length	112	short				long
Hip Width	107	narrow				wide
Body Depth	110	shallow				deep
Pelvic Angle	102	ascending				slope
Hock Angularity	111	straight				sickled
Hock Development	94	swollen				dry
Pastern	94	weak				strong
Hoof Height	108	low angles				steep angles
Fore Udder Length	105	short				long
Rear Udder Length	96	short				long
Att.of Fore Udder	104	loose				tight
Suspensory Ligament	89	weak				strong
Udder Height	105	deep				high
Teat Length	93	short				long
Teat Thickness	105	thin				thick
Teat placement (front)	90	wide				close
Teat placement (rear)	93	outwards				inwards
Teat direction (rear)	98	outwards				inwards
Udder Purity	105	add. teats				no add. teats



## ROSE PP\*

HB-Nr. 874460 | DE 09 56003272 | \*27.09.2020  
Breeder: Stroebel, Seybothenreuth  
Hered. def. F4C | aAa-Code 465231 | BC: **A2A2** | KC: AB



Photo: BGT



**PEDIGREE** **LINE:** Romulus

**ROSENDUFT Pp\*** ROYAL ROMARIO  
DE 09 53342487 Anette INCREDIBLE  
729

**Ginster Pp** **VOLLGAS P\*S** VALERO  
DE 09 52108370  
3/2 8.082 4,18 3,95 Gilvie **GEBALOT**  
HL: 2 8.621 4,34 3,93 7/7 7.925 4,28 3,99 Glocke

TMI	MI	BI	FIT
119 79%	109 86%	115 77%	107 83%

● INGREDIENTS ● CELLS

### MILK

Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
		+94	+0,09	+0,14

### BEEF

Daily gain	<b>115</b> 78%	Dressing perc.	<b>114</b> 78%	Carcass grade	<b>108</b> 75%
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### FITNESS

Productive life	<b>108</b> 72%	Persistency	<b>100</b> 79%	Fertility	<b>94</b> 72%
Udder health	<b>113</b> 83%	Cell count	<b>114</b> 79%	Milking speed	<b>98</b> 85%
Calving ease pat.	<b>108</b> 99%	Prod. increase	<b>107</b> 77%	Calf vitality	<b>110</b> 95%
Calving ease mat.	<b>98</b> 86%	Semen fertility	<b>+0%</b>	BIO	<b>118</b> 85%
Milking behaviour	<b>105</b> 63%	Hoof Health Value	<b>100</b> 71%		

### TYPE TRAITS DAUGHTERS: 0 (83%) 76 88 100 112 124 136

<b>Body</b>	<b>98</b>					
<b>Muscularity</b>	<b>104</b>					
<b>Feet &amp; Legs</b>	<b>102</b>					
<b>Udder</b>	<b>110</b>					
Cross Height	99	small				large
Body Length	100	short				long
Hip Width	96	narrow				wide
Body Depth	95	shallow				deep
Pelvic Angle	101	ascending				slope
Hock Angularity	104	straight				sickled
Hock Development	109	swollen				dry
Pastern	101	weak				strong
Hoof Height	98	low angles				steep angles
Fore Udder Length	109	short				long
Rear Udder Length	107	short				long
Att.of Fore Udder	100	loose				tight
Suspensory Ligament	104	weak				strong
Udder Height	105	deep				high
Teat Length	91	short				long
Teat Thickness	97	thin				thick
Teat placement (front)	108	wide				close
Teat placement (rear)	98	outwards				inwards
Teat direction (rear)	101	outwards				inwards
Udder Purity	95	add. teats				no add. teats



# SAGE

HB-Nr. 867306 | DE 09 56549516 | \*22.09.2021  
Breeder: Daberger, Frauenneuharting  
aAa-Code 561432 | BC: **A2A2** | KC: AA



Photo: BGT



<b>PEDIGREE</b>		<b>LINE:</b> Streik
<b>SIDO</b>	SYSTEM	SALDANA
DE 09 55073917	Lexi	ETOSCHA
		Livita
<b>Florentina</b>	82-82-84-86	<b>ERBHOF</b>
DE 09 52835838		EILMON
3/2	11.550 3,71 3,44	969
		<b>ZAUBER</b>
HL: 2	13.554 3,64 3,45	3/3
	9.626 4,15 3,70	850

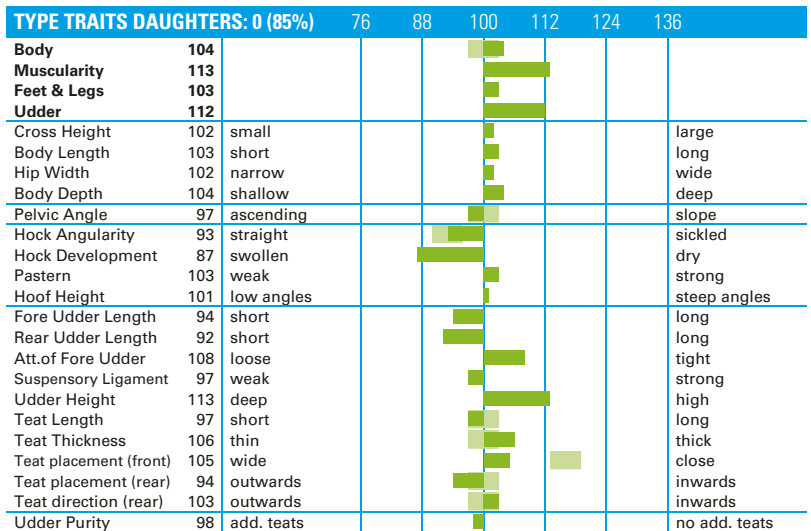
<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
137 79%	118 88%	121 76%	120 83%

● **OUTCROSS** ● **FLAT LACTATION CURVE**

MILK				
Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
		+838	-0,08	-0,06

BEEF				<b>121 76%</b>
Daily gain	<b>115 77%</b>	Dressing perc.	<b>116 76%</b>	Carcass grade
				<b>116 76%</b>

FITNESS				<b>120 83%</b>
Productive life	<b>120 73%</b>	Persistency	<b>116 81%</b>	Fertility
Udder health	<b>110 85%</b>	Cell count	<b>109 81%</b>	Milking speed
Calving ease pat.	<b>102 88%</b>	Prod. increase	<b>116 75%</b>	Calf vitality
Calving ease mat.	<b>105 77%</b>	Semen fertility		BIO
Milking behaviour	<b>100 67%</b>	Hoof Health Value	<b>89 73%</b>	<b>137 84%</b>



# VULPI PP\*

HB-Nr. 866037 | DE 09 54418458 | \*25.02.2019  
Breeder: Poschinger, Neumarkt St. Veit  
aAa-Code 426351 | BC: **A2A2** | KC: AA



Photo: BGT



<b>PEDIGREE</b>		<b>LINE:</b> Redad
<b>VERDEN P*S</b>	VERMEER	REUMUT
DE 09 51785087	Free	IROLA PS
		Franzis
<b>644</b>	<b>MAHANGO Pp*</b>	MUNGO Pp
DE 09 52380066		
4/305	8.792 4,27 3,62	598
		<b>VETERAN</b>
HL: 2	9.443 4,25 3,63	4/3,8
	9.831 4,05 3,47	479

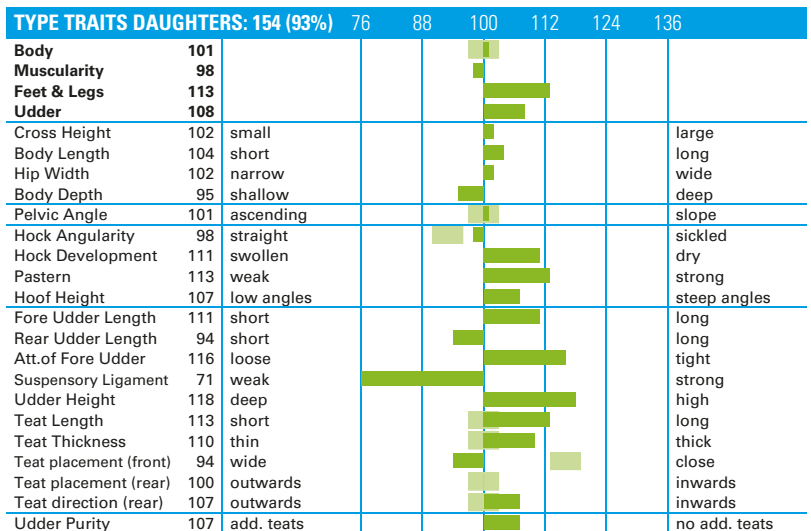
<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
111 94%	111 99%	100 98%	101 92%

● **ALLROUNDSIRE** ● **TOP FEET AND LEGS**

MILK				
Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
1. L	44	8.918	7.369	4,31
		+145	+0,24	+0,04
				3,57

BEEF				<b>100 98%</b>
Daily gain	<b>100 99%</b>	Dressing perc.	<b>101 96%</b>	Carcass grade
				<b>98 99%</b>

FITNESS				<b>101 92%</b>
Productive life	<b>110 83%</b>	Persistency	<b>102 98%</b>	Fertility
Udder health	<b>94 96%</b>	Cell count	<b>93 97%</b>	Milking speed
Calving ease pat.	<b>99 99%</b>	Prod. increase	<b>108 79%</b>	Calf vitality
Calving ease mat.	<b>104 96%</b>	Semen fertility	<b>+1%</b>	BIO
Milking behaviour	<b>93 82%</b>	Hoof Health Value	<b>97 85%</b>	<b>113 95%</b>





# WALYGATOR

HB-Nr. 173523 | DE 09 52709042 | \*12.11.2017  
Breeder: Gschoederer, Simbach/Inn  
BC: **A2A2** | KC: AB



Photo: BGT



**PEDIGREE** **LINE:** Horex

<b>WALFRIED</b>	WAL	WAXIN
AT 52 0368 918	Flora	MALEFIZ
		Florida
<b>Berni</b>	85-83-84-81	<b>BRANDY</b>
DE 09 49718401		BOREAS
5/4	9.218 4,33 3,90	Birnbac
HL: 4	10.384 4,40 3,93	4/4
	8.185 4,26 3,61	<b>NARR</b>
		Bini

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
130 88%	111 96%	109 90%	123 88%

● INTERESTING MOTHERLINE ● TOP EXTERIOR

**MILK**

Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
1. L	49	8288	+0,02	+0,01
		7.294	4,29	3,57

**BEEF** **109 90%**

Daily gain	<b>102 93%</b>	Dressing perc.	<b>106 82%</b>	Carcass grade	<b>111 90%</b>
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**FITNESS** **123 88%**

Productive life	<b>115 77%</b>	Persistency	<b>115 93%</b>	Fertility	<b>120 79%</b>
Udder health	<b>111 91%</b>	Cell count	<b>108 90%</b>	Milking speed	<b>96 92%</b>
Calving ease pat.	<b>113 97%</b>	Prod. increase	<b>111 90%</b>	Calf vitality	<b>105 84%</b>
Calving ease mat.	<b>110 86%</b>	Semen fertility	<b>+2%</b>	BIO	<b>132 91%</b>
Milking behaviour	<b>91 71%</b>	Hoof Health Value	<b>102 75%</b>		

**TYPE TRAITS DAUGHTERS: 45 (91%)** 76 88 100 112 124 136

<b>Body</b>	<b>106</b>					
<b>Muscularity</b>	<b>117</b>					
<b>Feet &amp; Legs</b>	<b>109</b>					
<b>Udder</b>	<b>111</b>					
Cross Height	105	small				large
Body Length	107	short				long
Hip Width	101	narrow				wide
Body Depth	109	shallow				deep
Pelvic Angle	107	ascending				slope
Hock Angularity	87	straight				sickled
Hock Development	88	swollen				dry
Pastern	110	weak				strong
Hoof Height	108	low angles				steep angles
Fore Udder Length	100	short				long
Rear Udder Length	107	short				long
Att.of Fore Udder	97	loose				tight
Suspensory Ligament	110	weak				strong
Udder Height	104	deep				high
Teat Length	93	short				long
Teat Thickness	89	thin				thick
Teat placement (front)	109	wide				close
Teat placement (rear)	115	outwards				inwards
Teat direction (rear)	107	outwards				inwards
Udder Purity	104	add. teats				no add. teats

# WILLENSKRAFT



HB-Nr. 854954 | AT 10 9727 274 | \*17.05.2020  
Breeder: Danninger, Lichtenberg  
BC: **A2A2** | KC: **BB**



Photo: Müller



**PEDIGREE** **LINE:** Horex

<b>WEISSENSEE</b>	WABAN	WILLE
AT 36 4261 168	Luxa	VULCANO
		Locki
<b>Melone</b>	<b>HERZSCHLAG</b>	HUTERA
AT 86 1195 729		
2/305	10.566 5,04 3,77	Melberg
HL: 1.	9.077 5,06 3,75	6/303
	9.245 4,85 3,41	<b>RUMGO</b>
		Melli

<b>TMI</b>	<b>MI</b>	<b>BI</b>	<b>FIT</b>
131 82%	125 88%	100 86%	111 85%

● SUITABLE FOR HEIFERS ● MILKING SPEED

**MILK**

Dtrs.	HD kg	Milk kg	Butterfat %	Protein %
		+1124	-0,15	-0,05

**BEEF** **100 86%**

Daily gain	<b>105 87%</b>	Dressing perc.	<b>96 83%</b>	Carcass grade	<b>103 84%</b>
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**FITNESS** **111 85%**

Productive life	<b>114 76%</b>	Persistency	<b>99 81%</b>	Fertility	<b>93 76%</b>
Udder health	<b>123 86%</b>	Cell count	<b>123 82%</b>	Milking speed	<b>119 88%</b>
Calving ease pat.	<b>110 99%</b>	Prod. increase	<b>101 80%</b>	Calf vitality	<b>102 94%</b>
Calving ease mat.	<b>110 86%</b>	Semen fertility	<b>-1%</b>	BIO	<b>124 88%</b>
Milking behaviour	<b>104 70%</b>	Hoof Health Value	<b>97 77%</b>		

**TYPE TRAITS DAUGHTERS: (85%)** 76 88 100 112 124 136

<b>Body</b>	<b>96</b>					
<b>Muscularity</b>	<b>100</b>					
<b>Feet &amp; Legs</b>	<b>101</b>					
<b>Udder</b>	<b>114</b>					
Cross Height	96	small				large
Body Length	100	short				long
Hip Width	95	narrow				wide
Body Depth	97	shallow				deep
Pelvic Angle	106	ascending				slope
Hock Angularity	112	straight				sickled
Hock Development	112	swollen				dry
Pastern	93	weak				strong
Hoof Height	100	low angles				steep angles
Fore Udder Length	101	short				long
Rear Udder Length	105	short				long
Att.of Fore Udder	116	loose				tight
Suspensory Ligament	101	weak				strong
Udder Height	108	deep				high
Teat Length	92	short				long
Teat Thickness	94	thin				thick
Teat placement (front)	99	wide				close
Teat placement (rear)	97	outwards				inwards
Teat direction (rear)	101	outwards				inwards
Udder Purity	102	add. teats				no add. teats





# MAZZE

HB-Nr. 866084 | DE 09 55294299 | \*17.04.2020  
 Breeder: Brandstetter, Polling  
 aAa-Code 435261 | BC: **A2A2** | KC: AB | ET



PEDIGREE		LINE: Metz
<b>MANAUS</b>	MIAMI	MINT
DE 06 67162219	Evelis	POLAROID
		Esmeralda
<b>Bryena</b>	<b>ERBHOF</b>	EILMON
DE 09 53643169		
3/300	7.824 4,18 3,80	Bille
HL: 2.	7.824 4,18 3,80	3/2,5
		7.893 3,93 3,63
		<b>MAHANGO</b>
		Brigite

TMI	MI	BI	FIT
127 82%	115 88%	116 90%	116 85%

● PERFECT DUAL PURPOSE ● MILKING SPEED

## MILK

Dtrs.	HD kg	Milk kg +640	Butterfat % -0,10	Protein % -0,01
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## BEEF

Daily gain	113 92%	Dressing perc.	110 86%	Carcass grade	113 89%
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## FITNESS

Productive life	107 75%	Persistency	112 81%	Fertility	114 76%
Udder health	114 85%	Cell count	116 81%	Milking speed	104 86%
Calving ease pat.	94 99%	Prod. increase	106 78%	Calf vitality	96 94%
Calving ease mat.	100 86%	Semen fertility	+0%	BIO	123 87%
Milking behaviour	101 68%	Hoof Health Value	84 77%		

## TYPE TRAITS DAUGHTERS: 1 (85%)

	76	88	100	112	124	136
<b>Body</b>	110					
<b>Muscularity</b>	110					
<b>Feet &amp; Legs</b>	106					
<b>Udder</b>	105					
Cross Height	114	small				large
Body Length	103	short				long
Hip Width	105	narrow				wide
Body Depth	103	shallow				deep
Pelvic Angle	119	ascending				slope
Hock Angularity	96	straight				sickled
Hock Development	95	swollen				dry
Pastern	111	weak				strong
Hoof Height	104	low angles				steep angles
Fore Udder Length	100	short				long
Rear Udder Length	101	short				long
Att.of Fore Udder	97	loose				tight
Suspensory Ligament	107	weak				strong
Udder Height	108	deep				high
Teat Length	100	short				long
Teat Thickness	105	thin				thick
Teat placement (front)	98	wide				close
Teat placement (rear)	103	outwards				inwards
Teat direction (rear)	96	outwards				inwards
Udder Purity	99	add. teats				no add. teats



# VIDI Pp\*

HB-Nr. 173678 | DE 09 53973291 | \*24.10.2018  
 Breeder: Draxinger, Waldkirchen  
 aAa-Code 651423 | BC: A1A2 | KC: AB | ET



PEDIGREE		LINE: Redad
<b>VOTARY P*S</b>	RUHMREICH PS	RUSTICO
DE 09 46894585	Granada	RUMGO
		Goldma
<b>Wiranga</b>	85-83-87-84	<b>MAHANGO Pp*</b>
DE 09 51237461		MUNGO Pp
3/3	10.775 4,30 3,87	Wiralla
HL: 3	11.921 4,26 3,82	5/2
		6.982 4,89 3,76
		Willa
		<b>WINRAL</b>

TMI	MI	BI	FIT
125 98%	111 99%	100 99%	118 98%

● EASY HANDLING COW ● STRONG MUSCULARITY

## MILK

Dtrs.	HD kg	Milk kg +431	Butterfat % +0,01	Protein % -0,02
1. L	684	8754	7.499	4,23
				3,53

## BEEF

Daily gain	109 99%	Dressing perc.	93 98%	Carcass grade	102 99%
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## FITNESS

Productive life	108 95%	Persistency	110 99%	Fertility	114 97%
Udder health	117 99%	Cell count	119 99%	Milking speed	95 99%
Calving ease pat.	105 99%	Prod. increase	104 94%	Calf vitality	105 99%
Calving ease mat.	112 99%	Semen fertility	+0%	BIO	123 98%
Milking behaviour	103 93%	Hoof Health Value	76 96%		

## TYPE TRAITS DAUGHTERS: 500 (98%)

	76	88	100	112	124	136
<b>Body</b>	120					
<b>Muscularity</b>	126					
<b>Feet &amp; Legs</b>	107					
<b>Udder</b>	110					
Cross Height	118	small				large
Body Length	121	short				long
Hip Width	117	narrow				wide
Body Depth	123	shallow				deep
Pelvic Angle	122	ascending				slope
Hock Angularity	98	straight				sickled
Hock Development	90	swollen				dry
Pastern	110	weak				strong
Hoof Height	108	low angles				steep angles
Fore Udder Length	108	short				long
Rear Udder Length	112	short				long
Att.of Fore Udder	105	loose				tight
Suspensory Ligament	92	weak				strong
Udder Height	102	deep				high
Teat Length	101	short				long
Teat Thickness	91	thin				thick
Teat placement (front)	114	wide				close
Teat placement (rear)	106	outwards				inwards
Teat direction (rear)	102	outwards				inwards
Udder Purity	97	add. teats				no add. teats

# Bavarian Fleckvieh Genetics worldwide

## Bayern-Genetik GmbH

### BAYERN-GENETIK GMBH

Senator-Gerauer-Straße 19  
85586 Grub / Poing  
phone: +49 (0) 89 / 99 15 20 - 0  
fax: +49 (0) 89 / 99 15 20 - 66  
eMail: export@bayern-genetik.de  
web: www.bayern-genetik.com

### CZECH REPUBLIC

Impuls  
Chovatelské Družstvo  
Bohdalec 122, 59255 Bobrová  
phone: +42 06 04 21 64 57  
eMail: info@chdimpuls.cz

### BENELUX / DENMARK

Bayern-Genetik Benelux  
phone/fax: +31 (0) 5 44 48 23 06  
mobile: +31 (0) 6 51 49 00 52  
eMail: christiaan@bayerngenetik.nl  
arend@bayerngenetik.nl  
web: www.bayerngenetik.nl

### ITALY

Dr. Martino Ermacora  
Via San Pietro 15  
33013 Gemona del Friuli (UD)  
mobile: +39 32 76 30 97 06  
eMail: martino.ermacora@bayern-genetik.de  
web: bayern-genetik.it

### CENTRAL AND SOUTH AMERICA

Dr. Martin Mayer  
phone: +43 664 224 7937  
eMail: martin.mayer@bayern-genetik.de

### AUSTRIA

Rinderzuchtverband Erzeugergemeinschaft  
Vöcklabruck  
Buchbergstr. 12  
4844 Regau  
phone: +43 (0) 50 6902-4710  
fax: +43 (0) 50 6902-94710  
eMail: mail@rzv.at

### SOUTH TIROL

Südtiroler Rinderzuchtverband  
Galvanistraße 38  
39100 Bozen  
phone: +39 04 71 06 38 30  
fax: +39 04 71 06 38 21  
eMail: info@rinderzuchtverband.it

### CHINA

Senator-Gerauer-Straße 19  
85586 Grub / Poing  
phone: +49 (0) 89 / 99 15 20 - 0  
fax: +49 (0) 89 / 99 15 20 - 66  
eMail: grub@bayern-genetik.de  
gyt@outlook.de  
peter.baumgaertel@bayern-genetik.de  
web: www.bayern-genetik.com

### EASTERN EUROPE / RUSSIA

Vladimir Varchola  
Lesnicka 22  
08005 Prešov  
phone: +42 19 05 30 37 05  
eMail: vladimir.varchola@bayern-genetik.de

### BALKAN STATES

Dr. Antonio Orak  
Demetra 20  
43000 Bjelovar  
mobile: +3 85 98 73 33 73  
eMail: tony.orak@bayern-genetik.de

### SERBIA

Maxi Bulls d.o.o.  
phone: +381 25 872 234  
eMail: info@maxibulls.net

### CROATIA

ReproVet - Veterinarska stanica Krizevci d.o.o.  
phone: +385 48 718 692  
eMail: info@vskrizevci.hr

### SWEDEN

Carlsson Anders  
Täckinge Skogsgård 201  
30577 Getinge  
phone: +46 709701286  
eMail: anders@skogsgard.se

**UNITED KINGDOM**

Cogent Breeding Ltd.  
 Heywood House  
 Chowley Oak Business Park  
 Chowley Oak Lane  
 Chester CH3 9GA  
 phone: +44 (0)1829 773400  
 eMail: info@cogentuk.com

**IRELAND**

Eurogene AiService (Ireland) Ltd.  
 Carrigeen Business Park,  
 Cahir, Co Tipperary, Ireland  
 phone: +353 (0) 5 27 44 29 40  
 eMail: sales@eurogeneaiservices.com

**MEXICO**

CRI Reproducción Animal México, S.A. de C.  
 Colonia Roma Sur  
 Chilpancingo 158  
 06760 Delegación Cuauhtemoc, Cd. México  
 phone: +55 5362 1400  
 eMail: Crimexico@reproducianimal.com.mx

**EAST AFRICA (KENIA)**

Timeless Genetics East Africa Ltd.  
 c/o Dr. A. Gichohi  
 P.O. Box 19055 – 00501  
 Nairobi, Kenia  
 Oil Libya Plaza Muthaiga Road  
 phone: +254 712 095 555  
 eMail: info@fleckviehgeneticsea.com  
 web: www.fleckviehgeneticsea.com

**CANADA / USA**

Big Bear Genetics  
 Dr. John Popp  
 P.O. Box 94, Erickson, Manitoba  
 R0J 0P0  
 phone: +1-2 04 – 6 36 – 23 87  
 fax: +1-2 04 – 6 36 – 77 05  
 eMail: bigbeargenetics@inetlink.ca

**NEW ZEALAND**

Willy & Jeanet Leferink  
 7 Waterton Point  
 RD 4 Ashburton  
 New Zealand 7774  
 phone: +64 3 3026891  
 fax: +64 21796037  
 eMail: legro@orcon.net.nz  
 leferinks@gmail.com

**SOUTH AFRICA**

Thys Swart  
 Kykso Simmentalers  
 Posbus 131, Suurbraak 6743  
 phone: +27 (0) 2 85 14 15 27  
 mobile: +27 (0) 8 24 98 87 88  
 eMail: mjswart@worldonline.co.za

**UGANDA**

The Great African Fleckvieh Ltd  
 Plot 18, Wampewo Avenue  
 P.O. Box 1444 Kololo  
 Kampala  
 phone: +43 664 2207923  
 eMail: muehlbauer.andy@freenet.de

Tephy Mujurizi - TEMUPE Farm (U) Ltd.  
 Plot 166A, Katabi Stage  
 P.O.Box 926 Entebbe, Uganda  
 phone: +256 414 234643  
 eMail: temupefarm@gmail.com

**NAMIBIA**

Hauk Simmentaler Horst and Renate Riedel  
 phone: +26 4 62 56 88 53  
 eMail: riedelhw@iway.na

**AUSTRALIA**

George Cassar  
 Karova Simmentals  
 20 Riverview Rd, Caffreys Flat NSW 2424  
 phone: + 61- 2 - 65 50 76 61  
 eMail: ozfleckvieh@yahoo.com.au

**TÜRKIYE**

EFEGEN GENETIK  
 Nisantasi Mah. Seraser Sok.  
 42060 Selcuklu/Konya  
 eMail: efegengenetik@gmail.com

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