



# E-Journal@

issue 21. December 2011



World Simmental  
Fleckvieh Federation

European  
Simmental Federation

[www.wsff.info](http://www.wsff.info)

[www.evf-esf.info](http://www.evf-esf.info)

## Dear Simmental-Fleckvieh Friends,



2011 is slowly coming to its end and fortunately has brought much needed stability and reasonable prices for the majority of agriculture products.

The main news we received from many member countries in 2011 was related to the science of genomic selection. A new exciting technology in breeders' hands has been introduced in some of our member countries. We received information about different genomics projects in Germany/Austria, Canada, US as well as other countries and this exciting research solidly positions Simmental-Fleckvieh as a leader in the field of breed improvement world-wide. All formalities

passed positively also for the joint European "non-holstein" project for genomic selection: Gene2Farm, where the ESF is participating also. The "kick-off" for the new project is planned for February 2012.

The WSFF&ESF will also participate in the ICAR meeting for world breed federations during the next ICAR congress in Cork, Ireland in May/June 2012.

Under the coordination of the ESF the further steps on type classification of the dual-purpose animals has been completed. A new system of 100-point scale definition of the overall traits – "FleckScore" was developed and introduced at the end of 2011.

In 2011 the new concept of joint-meetings of the WSFF and ESF was realized - the 29th Congress of the European Simmental Federation together with the World Simmental-Fleckvieh Federation Council met in Udine, Italy. The host Italian Association A.N.A.P.R.I. did a tremendous job in organizing this excellent

event in a fantastic venue. We would like to send our sincere thanks once more to the president Franco Moras and his crew from the Italian Association.

The new coordination of the Council meetings between WSFF and ESF will continue next year within the World Simmental-Fleckvieh Congress being held in September in Germany at the same time and place. We are all waiting with pleasant anticipation for the meetings in Landshut and Munich.

We would like to express our very best wishes for the coming year to all of you and your families. To all the Simmental-Fleckvieh breeders - We wish you a successful and prosperous 2012!

Yours sincerely

Bruce Holmquist  
President  
World Simmental  
Fleckvieh Federation

Josef Kučera  
President  
European  
Simmental Federation

Merry Christmas  
and a  
Happy New Year!

PF 2012

on behalf of the WSFF & ESF



## WSFF Council Meeting in Italy - ESF Congress in Italy 4. - 7. 5. 2011

### Fleckvieh breed in Italy

- 58.000 dual purpose cows in 5.000 farms registered.
- Fleckvieh is kept mainly in following regions: Trentino-Alto Adige, Sicily, Piemonte, Campania (Naples), Lombardy and Friuli Venezia Giulia.
- Milkperformance: 6.530 kg Milk, 3,88 % fat, 3,44 % protein

### Farm visits

- Azienda Agricola Bianchini F.lli
- 70 hectares of farmland,
  - 160 Fleckvieh cattle, 76 dairy cows,
  - milk production: 7219 kg milk - fat 3.90% - 3.47% protein.
- Azienda Agricola Mariani-Volpares:
- total area of 610 ha,
  - 730 Fleckvieh animals,

- research and experimental farm where training courses for farmers and veterinarians are offered.

Our thanks belong to the Italian National Association A.N.A.P.R.I. for the hospitality and good organization.

Presentations from the meeting:  
<http://www.wsff.info/clanky-wsff-council-meeting-2011-in-italy.html>



## WSFV Ausschusssitzung in Italien, Udine - EVF Kongress in Italien, Udine 4. - 7. 5. 2011

### Fleckviehzucht in Italien

- 58.000 Kühe in der Doppelnutzung in 5.000 Herdebuchbetrieben registriert.
- Fleckvieh wird vor allem in den Regionen Trentino-Südtirol, Sizilien, Piemonte, Kampanien (Neapel), Lombardei und Friaul Julisch Venetien gehalten.
- Das Leistungsniveau liegt bei 6.530 kg Milch bei 3,88% Fett und 3,44% Eiweiß.

### Betriebsbesichtigungen

- Betrieb der Gebrüder Bianchini:
- 70 ha landwirtschaftliche Nutzfläche.
  - 160 Fleckviehtiere, davon 76 Milchkühe,
  - Leistungsniveau von 7.219 kg Milch - 3,90% Fett - 3,47% Eiweiß.
- Betrieb Marianis-Volpares:
- Gesamtfläche von 610 ha,
  - 730 Fleckviehtiere,

- Es handelt sich um einen regional geförderten Betrieb, in dem Forschungs- und Versuchseinheiten und Fortbildungskurse für Landwirte und Tierärzte angeboten werden.

Der Dank gilt dem italienischen Nationalverband für die Gastfreundschaft und die gute Organisation.

Präsentationen: <http://www.wsff.info/clanky-wsff-council-meeting-2011-in-italy.html>



## Official genomic breeding values in Austria and Germany!

There have been the official genomically optimized breeding values available in Austria and Germany since August 2011!

## Genomische Zuchtwertschätzung Fleckvieh: Start in offizielle Phase

Nach einer inoffiziellen Testphase seit Dezember 2010 haben die genomischen Zuchtwerte mit der Veröffentlichung 09. August 2011 den Status „offizieller Zuchtwert“ erhalten. Nach Beschluss des Beratenden Ausschusses Zuchtwertschätzung der Länder Bayern, Baden-Würt-

temberg und Österreich vom 28.06.2011 und der ICAR-Anerkennung des genomischen Zuchtwertschätzverfahrens werden die genomisch optimierten Zuchtwerte zur Zuchtwertschätzung August 2011 als offizielle Zuchtwerte veröffentlicht.

Quelle: <http://www.lfl.bayern.de/>



# The Federal Fleckvieh Show in 2011 (Bundesfleckviehschau 2011) in Austria



Some of the most valuable breeding cattle in Austria were presented at the Agricultural Fair in Ried to an enthusiastic audience from 7 to 10 September. The show conceived as a breeding program show event, the first in the era of genomic selection, could set new standards with its quality and innovation. Judge Dr. Alfred Weidele pointed to the perfect exterior of the exhibited animals, especially on the superior udder quality and gave the show simply the title of „world class“.

In total, the eleven member associations AGÖF (Fleckvieh-Austria) exhibited 171 breeding cattle, and especially on Thursday, the day of judging, the animal arena was packed to the rafters, including experts and buyers from 21 countries. Check [www.fleckvieh.at](http://www.fleckvieh.at) for more information.



## Das war die Bundesfleckviehschau 2011 in Österreich

Vom 7. bis 10. September wurde im Rahmen der Rieder Landwirtschaftsmesse ein Teil der wertvollsten Zuchtrinder Österreichs einem begeisterten Publikum präsentiert. Die wiederum als echte Zuchtprogrammschau konzipierte Veranstaltung, die erste im Zeitalter der Genomselektion, konnte mit Qualität und Innovation neue Maßstäbe setzen. Preisrichter Dr. Alfred Weidele verwies auf das perfekte Exterieur der ausgestellten Tiere, ganz besonders auf die überragende Euterqualität und verlieh der Schau schlicht und einfach das Prädikat „Weltklasse“.

Insgesamt wurden von den elf Mitgliedsverbänden der AGÖF (Fleckvieh-Austria) 171 Zuchtrinder ausgestellt und besonders am Donnerstag, dem Tag der Wettbewerbe, war die Tierarena bis auf den letzten Platz gefüllt, darunter Experten und Kaufinteressenten aus 21 Ländern.

Mehr auf [www.fleckvieh.at](http://www.fleckvieh.at)



## \$375,000 Investment in Canada Beef Research 23.11.2011

Today, at Canadian Western Agribition, Saskatchewan Agriculture Minister Bob Bjornerud announced \$375,000 in funding for a beef genomics research project led by the Canadian Simmental Association.

“Research is an important part of our agriculture industry and essential to ensuring our farmers and ranchers remain at the forefront of production throughout the world,” Bjornerud said. “This funding will improve the competitiveness of our beef industry and help producers continue to provide safe, high-quality products to feed a growing world population.”

The Enhancing Canadian Beef Production through Genomic Innovation project aims to develop genetic selection tools that will allow producers to better identify and utilize superior genetics to improve the quality of their product. The project will initially identify superior genetics within Simmental-influenced cattle to improve carcass compositions and beef quality. The tools developed by this project are not limited to Simmental breeds and will benefit the entire cattle industry.



The project has also received funding from the Alberta Livestock and Meat Agency as well as Agriculture and Agri-Food Canada.

“This generous contribution from the Saskatchewan Ministry of Agriculture, the Canadian Simmental Association, and our project partners allows us to continue to work to ensure Canada’s seedstock sector is at the forefront of genetic research and ultimately global competitiveness,” past Canadian Simmental Association president Rick McIntyre said. “This project will assist all Canadian cattle producers in our ongoing efforts to supply premium beef to both the domestic and international marketplaces.”

Provincial funding was provided through the Agriculture Development Fund (ADF). ADF provides funding to help institutions, companies and industry organizations conduct research, development and value-added activities that will benefit Saskatchewan farmers and ranchers. In 2011, the Saskatchewan Ministry of Agriculture committed \$14.5 million for 71 ADF projects.

Source: <http://www.gov.sk.ca/>

# UPCOMING EVENTS



## Announcing

Herewith we want to announce the **4th International Fleckvieh Simmental Beef Show from January, 20 to 22, 2012**

which takes place during the International Green Week (IGW) in Berlin.

About 100 cattle are going into competition on Saturday, January 21, 2011 at 2.00 p.m. in the "Großen Ring" in hall 25. In collaboration with the German Simmental Breeding Organization (VDSI) there will be organized a forum "Fleckvieh Simmental Beef in Europe" on Sunday, January 22, 2012 from 10.00 a.m. to 1.00 p.m. in the ICC at the exhibition center Berlin. For this we ask all working group members and breeding organizations with interest for collaboration

for a short information about the status quo of the breeding Beef Simmental per country.

Because of organizational reasons please make your arrangement of hotel accommodation by yourself, for example via [www.booking.com](http://www.booking.com).

## Vorankündigung

Hiermit möchten wir auf die im Rahmen der Internationalen Grünen Woche (IGW) in Berlin stattfindende

**4. Bundesschau Fleckvieh Simmental Fleischnutzung vom 20. bis 22. Januar 2012**

hinweisen und ganz herzlich einladen. Rund 100 Schautiere werden am Samstag, 21.1.2012 um 14.00 Uhr im Großen

Ring der Halle 25 zum Wettbewerb antreten.

In Zusammenarbeit mit dem Verband Deutscher Simmentalzüchter e.V. (VDSI) wird am Sonntag, den 22. Januar 2012 von 10.00 – 13.00 Uhr ein EVF Forum zur Thematik „Fleckvieh Simmental Beef in Europa“ auf dem Messegelände Berlin (ICC) organisiert. Hierzu bitten wir alle Mitglieder und Zuchtorganisationen, die Interesse an der Mitarbeit haben, um eine Kurzinformation über den aktuellen Stand der Rasse in der Zuchtichtung Fleischnutzung pro Zuchtgebiet bzw. Land.

Aus organisatorischen Gründen bitten wir um eine eigenständige Hotelbuchung. (Zum Beispiel unter [www.booking.com](http://www.booking.com))



## ALLGEMEINE HINWEISE / GENERAL INFORMATION

### VERANSTALTUNGSORT / VENUE

Landshut

### VERANSTALTER / ORGANIZER



Arbeitsgemeinschaft Süddeutscher Rinderzucht- und Besamungsorganisationen e.V.  
Federation of Southern German Cattle Breeding and AI Organizations  
Haydnstr. 11  
80336 München

### GESCHÄFTSFÜHRER / DIRECTOR

Dr. Georg Röhrmoser

### ORGANISATION & INFORMATION

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Homepage: [www.wsffcongress2012.de](http://www.wsffcongress2012.de)

### KONGRESSPRACHE / CONGRESS LANGUAGE

Deutsch und Englisch  
German and English

### ANMELDUNG / REGISTRATION

Die Anmeldung für die Gesamtteilnahme und Teilbuchungen sowie die Reservierung der Hotelzimmer beginnt voraussichtlich im Frühjahr 2012.

Alle Informationen zum Registrierungsprozess sowie zur Hotelbuchung werden im Einladungsprogramm sowie auf der Homepage [www.wsffcongress2012.de](http://www.wsffcongress2012.de) im Frühjahr 2012 veröffentlicht.

Registration for main-, pre-congress and young members' tour as well as hotel reservation are possible in spring 2012.

Further information of registration and hotel booking will be announced at the invitation and on the homepage

[www.wsffcongress2012.de](http://www.wsffcongress2012.de) in spring 2012.

### HAFTUNGS-AUSSCHLUSS / LIABILITY

Der Veranstalter übernimmt keine Haftung für Unfälle, Personenschäden, Diebstahl, zusätzliche Kosten durch Änderung des Veranstaltungsdats, -ortes, -programmes o.ä.

The organizers cannot be held responsible for any personal injury, accident, damage to private property or additional expenses incurred to a result of changes of dates, venue, program or else.



## 19. World Simmental Fleckvieh Congress

München / Landshut 19.–25. September 2012



[www.wsffcongress2012.de](http://www.wsffcongress2012.de)

Liebe Fleckviehzüchter!

Erstmals nach 24 Jahren findet wieder der Kongress der Welt Simmental Fleckvieh Vereinigung in Deutschland statt.

Mit einem umfangreichen Hauptprogramm und einem vorwiegend auf Mutterkuhhaltung ausgerichteten Vorprogramm soll die ganze Palette der Fleckviehzucht in Bayern, Baden-Württemberg und in den neuen Bundesländern in wenigen Tagen abgedeckt werden. Zu diesem herausragenden Ereignis möchten wir alle Züchter, Freunde und Interessenten der Rasse Simmental Fleckvieh aus aller Welt recht herzlich einladen.

  
Franz-Xaver Stürzer  
VORSITZENDER ASR

  
Dr. Georg Röhrmoser  
GESCHÄFTSFÜHRER ASR

#### HAUPTPROGRAMM

Mi	19.9.	Landshut	.....	Anreise, Begrüßungsabend
Do	20.9.	Nordbayern	.....	Betriebsbesichtigungen Neustadt/Aisch ..... Bullenparade etc. Rothenburg/Tauber ..... Stadtführung, Weinprobe
Fr	21.9.	Landshut	.....	Ausschusssitzungen im Hotel Kaiserhof (gesonderte Einladung) Regensburg ..... Begleitprogramm: Betriebe, Schifffahrt etc. Mühldorf ..... Nachzuchtschau, Züchterabend
Sa	22.9.	Landshut	.....	Mitgliederversammlung in den Bernlochner Stadtsälen Stadtführung Galaabend mit Ministerempfang
So	23.9.	Baden-Württemberg	.....	Tierschau in Ilshofen mit Richtwettbewerb und Demogruppe Fleckvieh-Fleisch, Züchterabend Begleitprogramm mit Besichtigungen
Mo	24.9.	München	.....	Landestierschau (ZLF), Oktoberfestbesuch
Di	25.9.	Oberbayern	.....	Besichtigung Landesanstalt für Landwirtschaft in Grub, Exkursionen (Chiemsee, Wendelstein, usw.)

#### VORPROGRAMM

So	16.9.	Dresden	.....	Ankunft
Mo	17.9.	Dresden	.....	Stadtrundfahrt
		Sachsen	.....	Betriebsbesichtigungen
Di	18.9.	Sachsen-Anhalt	.....	Betriebsbesichtigungen und Exkursionen
		Thüringen	.....	Tierschau in Laasdorf mit Züchterabend
Mi	19.9.	Thüringen	.....	Betriebsbesichtigung und Fahrt nach Landshut

#### JUNgzÜCHTERPROGRAMM

Auch die Jungzüchter sind herzlich eingeladen am Kongress teilzunehmen. Es werden spezielle Programmpunkte, wie z.B. am Freitag, 21.09. in Mühldorf ein Jungzüchterwettbewerb mit Jungzüchterparty oder am Samstag, 22.09. ein separates Exkursionsprogramm in Oberbayern, angeboten.

PROGRAMMÄNDERUNGEN VORBEHALTEN

Dear Fleckvieh breeders!

The World Simmental Fleckvieh Federation Congress takes place in Germany for the first time after 24 years!

With a comprehensive main programme and a pre congress tour which concentrates primarily on suckler cow husbandry, the full spectrum of Fleckvieh breeding in Bavaria, Baden-Württemberg and the former East German states will be covered in just a few days. We would like to extend a warm invitation to this outstanding event to all Simmental Fleckvieh breeders, friends and other interested persons around the world.

  
Franz-Xaver Stürzer  
CHAIRMAN OF ASR

  
Dr. Georg Röhrmoser  
DIRECTOR

#### MAIN PROGRAMME

Weds.	19.9.	Landshut	.....	Arrival, welcome evening
Thurs.	20.9.	North Bavaria	.....	Farm visits Neustadt/Aisch ..... Bull parade etc. Rothenburg/Tauber ..... Guided tour through Rothenburg, wine tasting
Fri.	21.9.	Landshut	.....	Council Meeting at Hotel Kaiserhof (by invitation)
		Regensburg	.....	Supporting programme: farms, boat trip etc.
		Mühldorf	.....	Progeny show, breeders' evening
Sat.	22.9.	Landshut	.....	General Assembly in the Bernlochner Stadtsäle Guided tour through Landshut Gala evening with Minister's reception
Sun.	23.9.	Baden-Württemberg	.....	Cattle show in Ilshofen with judging contest and Fleckvieh beef demo group, breeders' evening Supporting programme with visits
Mon.	24.9.	Munich	.....	Bavarian Central Agricultural Festival (ZLF), visit of the Oktoberfest
Tues.	25.9.	Upper Bavaria	.....	Visit of the "Landesanstalt für Landwirtschaft" in Grub, field trips (Chiemsee, Wendelstein, etc.)

#### PRE CONGRESS TOUR – EASTERN GERMANY

Sun.	16.9.	Dresden	.....	Arrival
Mon.	17.9.	Dresden	.....	Guided tour
		Saxony	.....	Farm visits
Tues.	18.9.	Saxony-Anhalt	.....	Farm visits and field trips
		Thuringia	.....	Cattle show in Laasdorf with breeders' evening
Weds.	19.9.	Thuringia	.....	Farm visit and travel to Landshut

#### YOUNG BREEDERS' PROGRAMME

Also young breeders are cordially invited to attend the Congress. There will be a special programme for them with exciting events like a young breeders' competition and party on Friday 21.09 at Mühldorf and field trips in Upper Bavaria on Saturday 22.09.

PROGRAM SUBJECT TO CHANGE

## "Science Corner"

### Crossing Improvement Effect of Fleckvieh Cattle in Zunyi/China

*XU Jian-zhong<sup>1</sup>, LIU Zhen-de<sup>2</sup>, HE Cheng-long<sup>3</sup> (1. Guizhou Livestock and Poultry Improvement Station, Zunyi, Guizhou 563000; 2. Livestock and Poultry Improvement Station in Zunyi City, Zunyi, Guizhou 563000; 3. Livestock and Poultry Improvement Station in Zunyi County, Zunyi, Guizhou 563000)*

**Objective:** To study the growth and beef performance of Fleckvieh crossbreed in Zunyi.

**Method:** Thirty crossbreeds, the F1 of Fleckvieh and Zunyi indigenous yellow cattle and hybrids of Fleckvieh and Simmental crossed with indigenous yellow cattle, were randomly selected as the test group, and 30 local purebred cattle were as the control to feed and carry out fattening experiment.

**Result:** The results showed that the body weight of the crossbreed of Fleckvieh and local cattle, Fleckvieh, Simmental and local cattle was 90.00 kg and 118.18 kg at six months old, while that of local cattle was 71.87 kg. Compared with the control, it increased 25.2% and 64.43%. The body height and chest circumference increased 29.67%, 21.63% and 30.59% 19.83%, respectively. The difference was significant (P<0.01). After fattening, two eighteen-month old hybrids were slaughtered from Fleckvieh and local cattle, Fleckvieh, Simmental and local cattle. The slaughter rate and net meat percentage was 58.12%, 53.71% and 45.67%, 38.90%. Compared with the same age local cattle, the slaughter rate and net meat percentage improved 10.2%, 5.61% and 6.95%, 0.18%, respectively.

**Conclusion:** The body size, body weight and slaughter performance of the offspring increased and improved, the improve-

ment effect was significant.

Source: <http://en.cnki.com.cn/>

### Comparative Test of Slaughter Trait of Mongolian Cattle and F<sub>2</sub> generation from Simmental and Mongolian Cattle

*Si Qin Ba Te-er<sup>1</sup>, Bi Li Ge Ba Te-er<sup>1</sup>, Li Yong-lin<sup>2</sup>, Xin Man-xi<sup>1</sup>, Ji Hu Lan Tu<sup>2</sup>, Bai Tao<sup>1</sup>, Li Li-hua<sup>1</sup>, Han Chun-mei<sup>1</sup> (1. Animal Husbandry Working Station of Xi Lin Gol league in Inner Mongolia Autonomous Region, Xi Lin Hao Te, Inner Mongolia 026000; 2. Animal Husbandry Working Station of Zheng Xiang Bai Qi of Xi Lin Gol league in Inner Mongolia Autonomous Region, Zheng Xiang Bai Qi, Inner Mongolia 013800)*

**Objective:** In this paper, the meat production performance effect of crossbreeding Simmental and Mongolian cattle was analyzed.

**Method:** Comparative slaughter test was carried between Mongolian sire and F<sub>2</sub> hybrids from Simmental and Mongolian cattle with 18 months old.

**Result:** Compared with the same age Mongolian sire, the average live weight, carcass weight and net meat weight of F<sub>2</sub> generation with 18-month age from Simmental and Mongolian cattle increased 61.86%, 70.16% and 74.95%. The difference was significant (P<0.01), while the average dressing percentage and net meat rate of F<sub>2</sub> hybrids improved 5.14% and 8.12%. The difference of average dressing percentage was significant (P<0.05).

**Conclusion:** The improvement result of Mongolian cattle was obvious by using Simmental to improve the meat production performance.

Source: <http://en.cnki.com.cn/>

## Somatic Cell Count in Simmental Breed Cows Milk from Family Farms according to the Order of Lactation and Lactation Stages

P. Mijić, T. Bobić, I. Knežević, I. Klarić, M. Sakač, T. Koturić, V. Bogdanović

**Abstract:** Simmental breed cows although being dominant breed at the family farms in Croatia are not yet sufficiently adapted to the machine milking due to their improper udder index. The aim of this study was to determine the somatic cells count in Simmental cows' milk according to the order of lactation and lactation stages. Survey has been conducted at four family farms and a total of 61 cow of Simmental breed from first to third lactation were enrolled in a study. The study results have shown that the maximum somatic cell count is in milk (LSCC=3.59) from the stables with have a downward floor, but not significantly higher in comparison to other ways of keeping the cows. However, the lowest udder hygiene was in the stables where the milking was performing by putting the milk into the cans and where cows were kept on the embroidery. The significant increase in LSCC ( $P<0.05$ ) was determined in the third lactation in comparison to the second lactation. Given the stage of lactation largest LBSS was found in the second stage, which was significantly higher when compared to the first. Farms with a free way of keeping cows and milking cows in parlours are becoming more and more like guidelines in current milk production, and animals that reside in those farms have healthier udders and less micro-organisms in milk.

**Conclusion:** Based on this study, we have concluded that in Simmental cows largest LSCC is in the stables that have downward floor, but not significantly in comparison to other ways of keeping cows. However, the lowest udder hygiene was found in the stables where milking was performed by putting the milk into the cans and where cows were kept on the embroidery. The LSCC was significantly higher ( $P<0.05$ ) in the third compared to the other lactation, as well as the number of microorganisms in the third compared to the first lactation. Given the stage of lactation the largest LSCC was found in the

second stage, which was significantly higher compared to the first stage. Farm with a free way of keeping cows and milking in parlours are becoming more and more like a guidelines in current milk production, and animals that reside in those farms have a healthier udders and less micro-organisms in milk. This is shown in this study on Simmental breed cows which is the dominant cow breed at the family farms in Croatia.

For more: <http://www.istocar.bg.ac.rs/radovi8/2/08.%20engl.%20P.%20Mijic%201%20CRO.pdf>

## Genetic trends for production and nonproduction traits in Simmental breed in Slovenia

K. Potočnik, M. Štepec, J. Krsnik

**Abstract:** The main part of Slovenian Simmental breed is selected for milk production. Genetic changes in a population should be checked in the case of selection on more traits at the same time. The estimation of genetic trend is the best tool to follow genetic changes in a population. In this paper we present the estimated genetic trends for traits with high economic weight in total selection of Slovenian Simmental breed. Results show that the greatest genetic progress was attained for milk production trait and conformation traits for udder. In other traits not so high genetic progress was attained. In the case of muscularity significant negative genetic progress was attained in the last 12 years.

**Conclusion:** The studied part of Simmental cattle in Slovenia presents almost half of dairy cows population. The selection is oriented to the production of healthy, durable cows with good udders. Estimation of genetic progress in the last 14 years shows that the selection advanced in the right direction. The greatest progress was attained in milk production and udder traits. The general and most important picture of successful selection is the progress of total merit index for milk production. Here, in the analysed period, progress for almost one standard deviation was achieved.

For more: [http://www.bf.uni-lj.si/fileadmin/users/1/zootehnika/center\\_za\\_strokovno\\_delo/objave/GeneticTrends.pdf](http://www.bf.uni-lj.si/fileadmin/users/1/zootehnika/center_za_strokovno_delo/objave/GeneticTrends.pdf)

