



# Simmental-Fleckvieh in the Czech Republic

**History**

**Present**

**Future**

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# History





## History - 19th century

- „Czech červinka“
- Brachyceros cattle
- Church and feudal estates
- Imports from abroad
- Simmental-Fleckvieh





# History - 20th century up to 1948

- **Unification of cattle strains**
- **1924 - breeding law**
- **Approved SIM bulls only**



**Champion cow 1947 - 6379 kg milk**



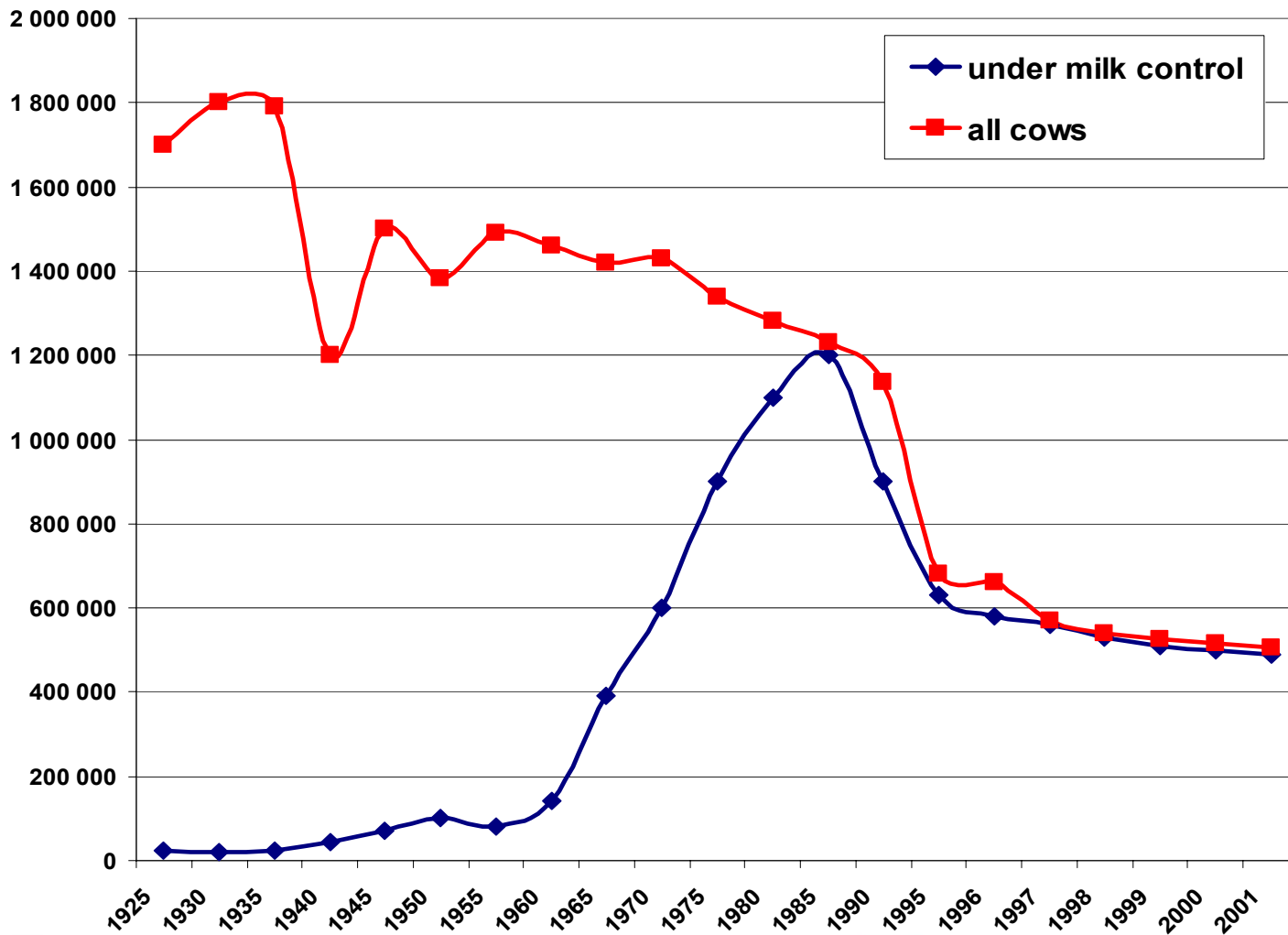


# History - 20th century –1948-1989

- **1/3 of population 3 purpose**
- **Forcible collectivization**
- **Introduction of AI**
- **Milk performance control – almost 100 % (2006: 96,3 %)**
- **Breeding organisation: by government**
- **70-80: crossbreeding with Ayrshire, RH**



# Cattle population development





# Present





# Basic info about the Czech agriculture

- **Many changes in the past 18 years**
- **36 685 farms, average size 100 ha , 148 cows**
- **Farms 100+ ha – 11 %, operating on 85 % agric. land**
- **< 10 heads = 15 000 farms**
- **84,3 % of all cattle on farms with 100 + heads**
- **72 % of the total agric. land is arable land**
- **50 % of total land. area in LFA**
- **more than 90 % of agric. land is RENTED only!**
- **2004: the lowest cattle population since 1936**





# Fleckvieh Dual purpose – Europe

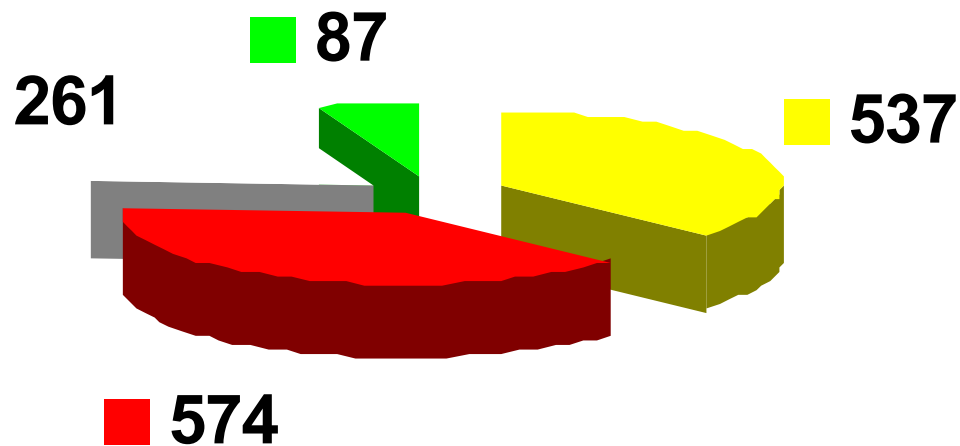


- ✓ **Important cattle breed in Europe**
- ✓ **120 000 registered Farms with 12 000 000 Animals**
- ✓ **Germany, France, Austria, CZ, Swiss – almost 80 % of all HB cows in Europe**
- ✓ **Average herd size from 3 (Rumania) to 220 (Slovakia)**
- ✓ **Average milk production: 6 000 kg milk, higher variability among the countries**
- ✓ **Highest share of FV on total cattle population: Austria (80 %), Serbia (80 %), Croatia (75 %), Slovenia (54 %) ..... CZ (47 %)**





# Total number of cattle in Czech republic (2006)



■ holstein

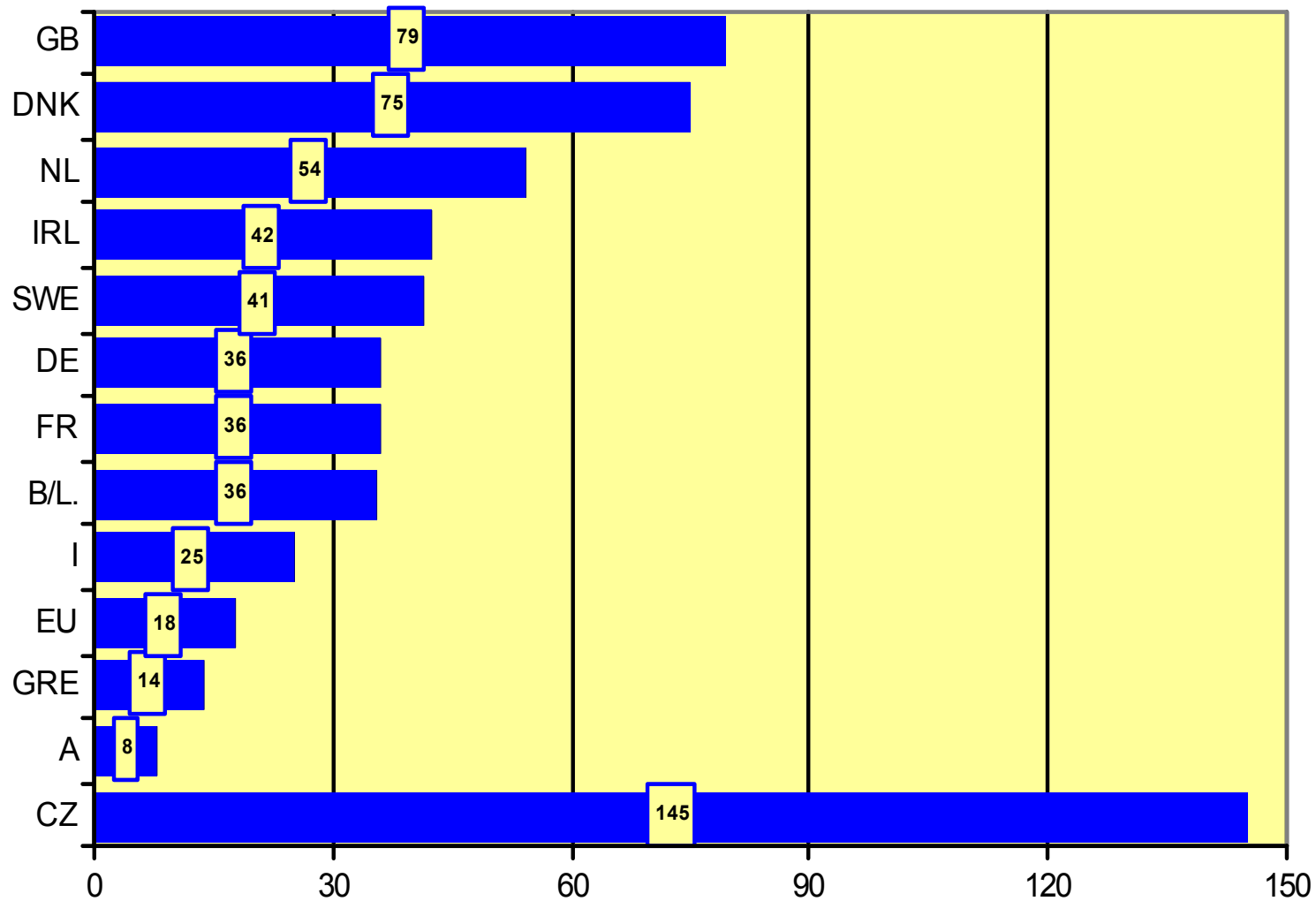
■ czech fleckvieh

beef breeds



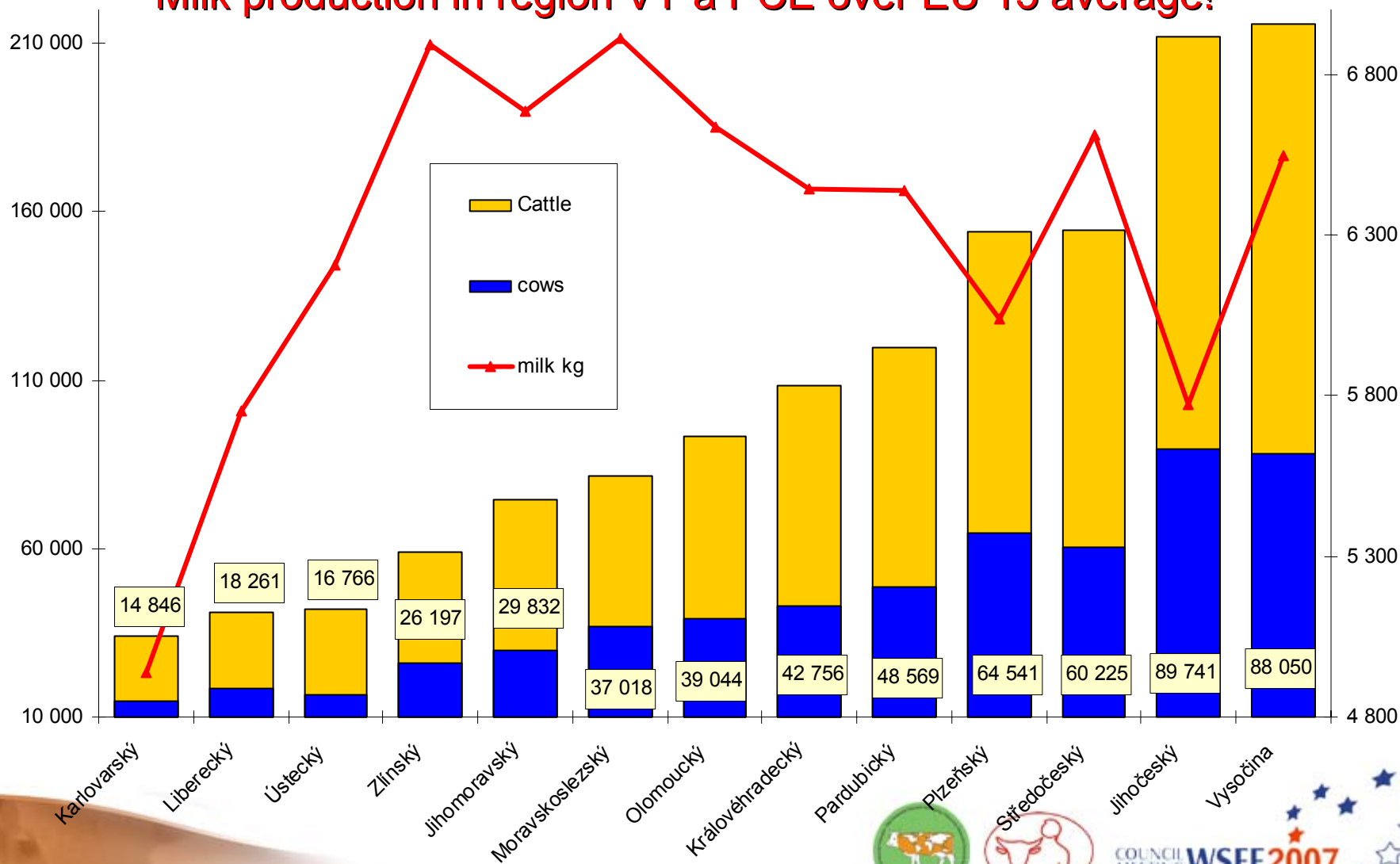


# Number of cows per barn – 2005 (EU 25)



# Cattle breeding in the CZ regions

Milk production in region VY a PCE over EU 15 average!





# Breeding programs and philosophy of the CZ Fleckvieh

- **Dual purpose breed**
- **Excellent milk production (milk content)**
- **Very good beef production/ beef quality**
- **Fertility**
- **Calving ease**
- **Vitality & health**
- **High feed intake & feed conversion**
- **High growth rate**
- **Adaptability**



**Balance and performance!**



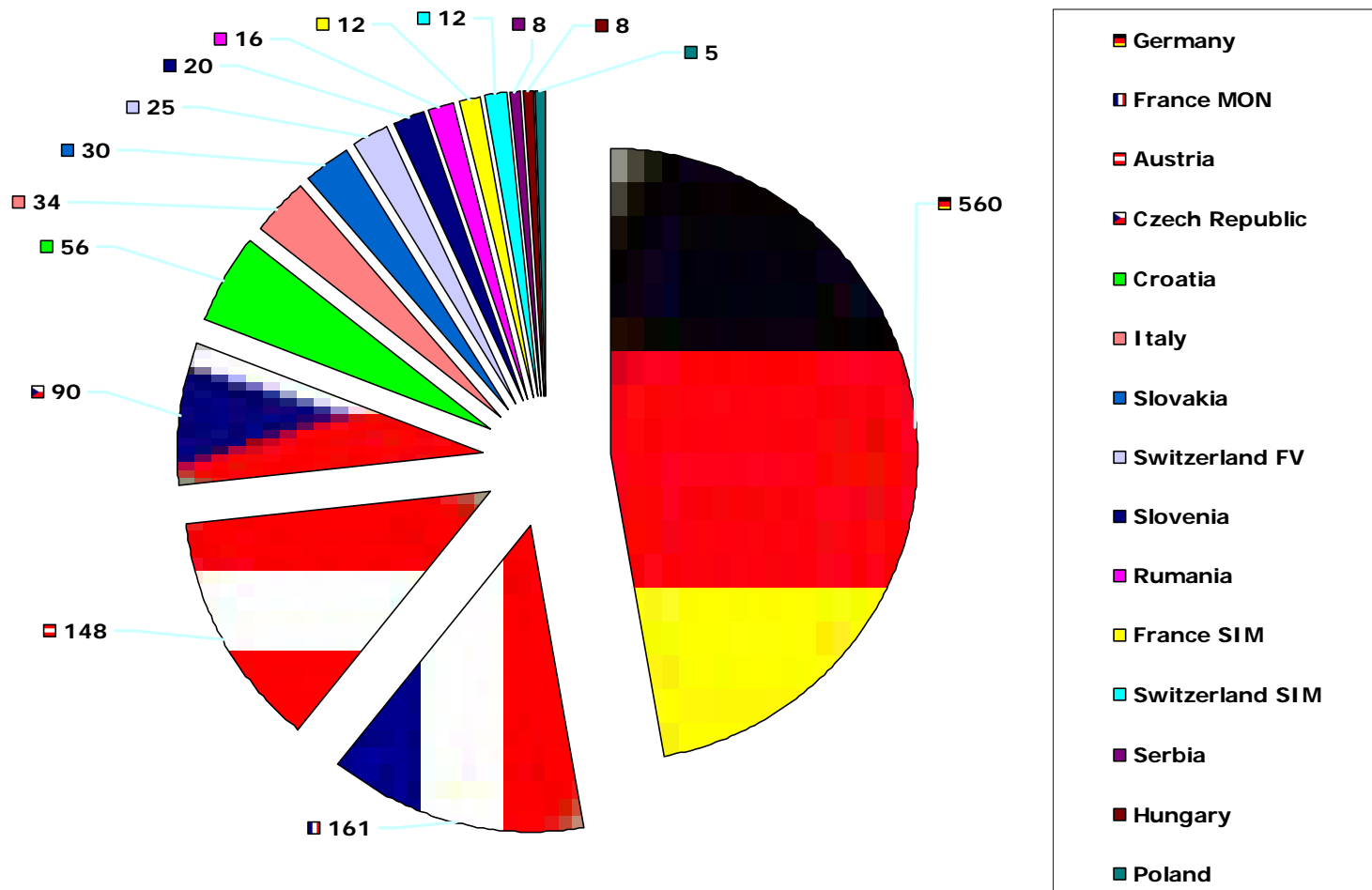


# Austria – Germany – Italy – Czech Republic



# Number of young bulls yearly tested

(2006 = about 1200)





# Embryotransfer

Indicator	2001	2006
number of donor cows	1 036	1 210
obtained embryos (all)	9 265	13 357
- suitable for ET	4 857	6 383
aver. per donor cow	4,7	5,3
nummber of transfers	4 930	6 075

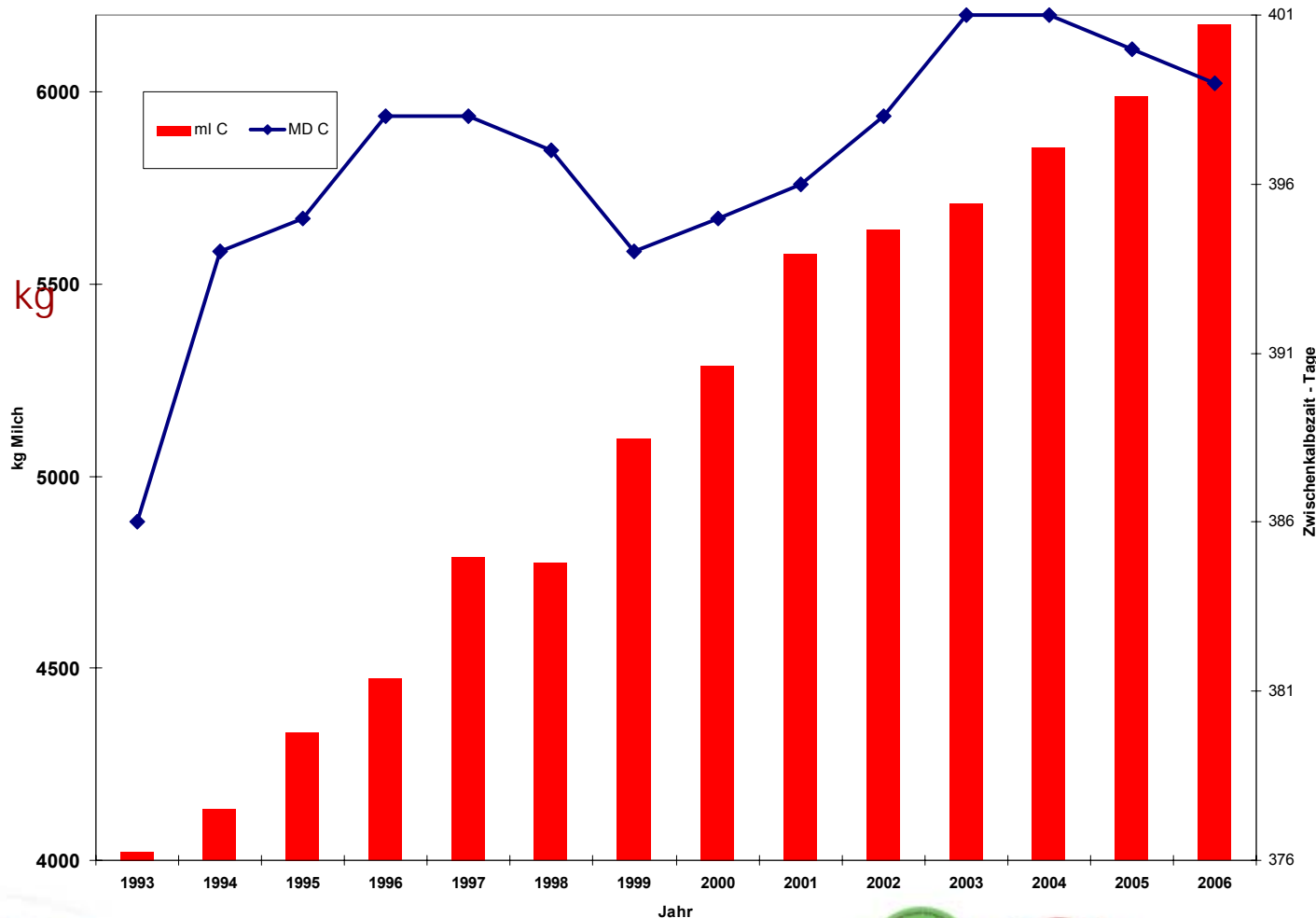




# Development of the milk production

6 162 kg

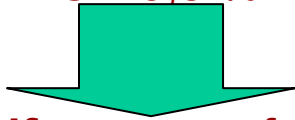
+ 175 kg



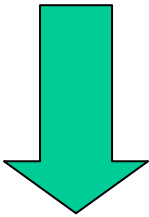
# Breeding programm – Dual purpose FV

**FV population – cows**

TOP 0,5 % - sire dam

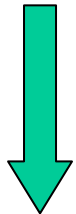


**Male calf – own performance test**



**Young sire – progeny testing**

(800 – 1000 ID per bull)



**Prooven bull**

**Milk performance**

Milk, fat, protein, SC

**Beef performance**

Daily gain, carcass value,  
carcass classification

**Fitness**

fertility, calving easy,  
longevity,

**Type**

type classification



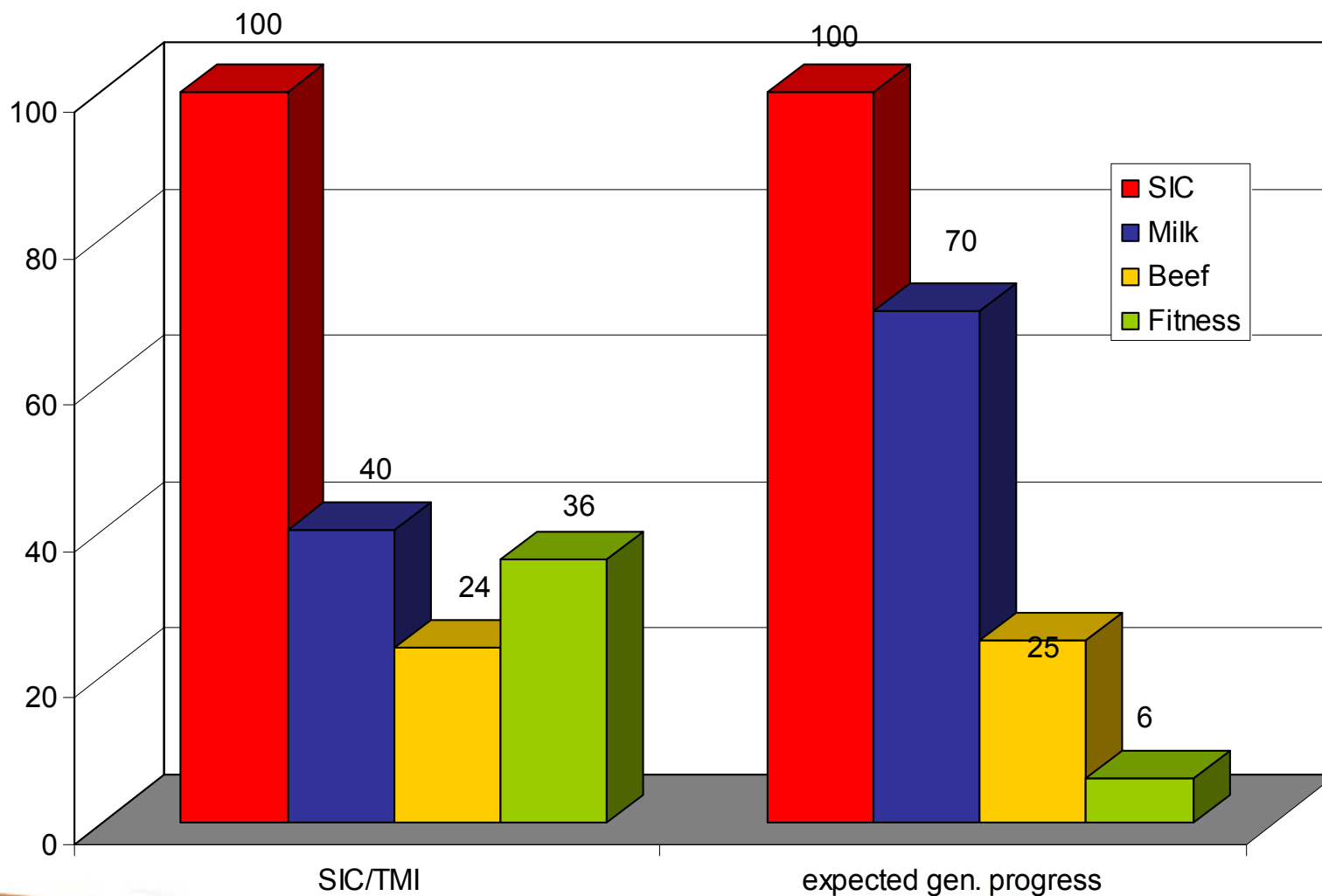


# Total merit index – relativ weights of traits

	AT/DEU	FR - Mo	IT	CH - SIM	CH-FT/MON	CZ
Milk	39	50	53	35	45	40
Beef	17	-	27	20	10	24
Fitness	44	37,5	10	25	25	36
Type	-	12,5	10	20	20	



# GZW(TMI) Fleckvieh – Czech Republic





# Common projects in the FV population

- ✓ **EURO Test** (common testing of young bulls)
- ✓ **System 97** (harmonization of type classification)
- ✓ **DE-AT genetic evaluation**
  - ✓ working on implementation of CZ do the common gen. Evaluation (final stage)
- ✓ **BOVMAS - MAS incorporation**





# Simmental Beef in the Czech Republic

- ✓ **Beef breeds since 1990**
- ✓ **Simmental Beef – 1500 cows in main section of HB (44 farms)**
- ✓ **population based on imports from CDN,DK, later FV-Fleisch from DE,AT**
- ✓ **Semen import DK, DE, CDN**
- ✓ **SIM-beef animals at the progeny show**





# Future





# Future...?

- ✓ **Dual purpose very important**
- ✓ **Trouble free animals**
- ✓ **Concentration of animals**
- ✓ **Costs reduction**
- ✓ **PROFIT OF THE FARMERS**









# Take home message

- **Tradition of Fleckvieh in CZ (Central Europe)**
- **Many changes since 1990**
- **Educated breeders**
- **Concentration of animal per farm**
- **Large active population – together with DE, AT, IT**
- **Increasing demand for FV - dual purpose**

**FUTURE of the Fleckvieh: co-operation!**





# **IX. National exhibition**

## **The day of Czech Fleckvieh**

September 3rd 2008,

Radesinska Svratka, Czech Republic





**Thank you for your  
attention!**

