

Czech Fleckvieh Cattle Breeding and Genomics in the Czech Republic

Ing. Pavel Král
Director

Czech Fleckvieh Breeders Association

Outline

- Czech Fleckvieh Breeders Association
 - About Association
 - CESTR Junior Team
 - CATTLE GENOM
 - CATTLE MARKET
- About Czech Fleckvieh breed
 - Graphs and statistics



CESTR
svaz chovatelů
českého strakatého skotu

Czech Fleckvieh Breeders Association

- Breeding association for Czech Fleckvieh and phylogenetically related breeds approved by the Ministry of Agriculture of the Czech Republic
- Founded in 1990
- 230 members
- Headquarters in Radešínká Svratka
- Management of the herd book for cows and bulls, legislative activities, lobbying, organization of exhibitions, consultancy
- Secretariat of the Association provides professional work, educational activities, promotion of the breed (Newsletter, website, seminars, conferences, exhibitions)
- Secretariat of the World Simmental - Fleckvieh Federation
- Subsidiary business company CATTLE MARKET s.r.o. established in 2007



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CESTR Junior Team



- **Supporting the next generation of cattle breeders** – a community for young people interested in Czech Fleckvieh cattle breeding and agriculture.
- **Practical education and experience** – members learn about cattle care, nutrition, breeding, fitting, judging and presenting animals at shows.
- **Connecting young breeders with the industry** – the team helps young people broaden their knowledge and build connections with agricultural businesses and professionals.
- **Camps, excursions and competitions** – activities include summer camps, farm and breeding-industry excursions, international visits and participation in cattle shows and junior championships.

CESTR Junior Team

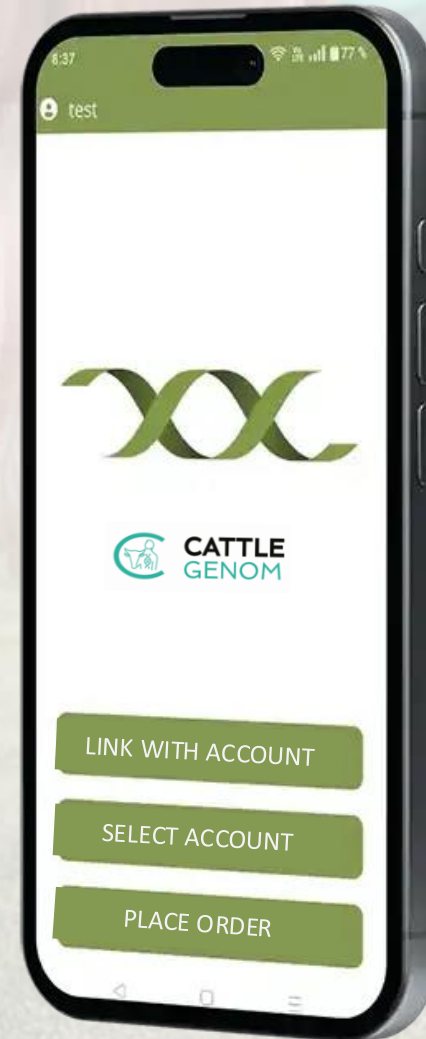


Genotyping as a tool

- Standard for farmers
- Almost 50 % all female-calves genotyped
- Excellent results, popular & reliable service
- Supported through association and government
- Support for farmers – mobile app **iSample**



CATTLE
GENOM



CATTLE GENOM



CATTLE
GENOM

- Project supported by the Czech Fleckvieh Association and the government for genotyping female Czech Fleckvieh cattle.
- Running since 2020.
- 90 breeders currently involved, representing a total of 35,000 cows in their herds.
- Now, around 105,000 Czech Fleckvieh cattle have been genotyped.

CloudNA genomika

Holštýn

- Dashboard
- Genotypovaná zvířata
- Průměry po bycích
- Užitkovosti
- Prehled zvířat s TPI
- Download data XLS

Český strakatý

- Dashboard
- Genotypovaná zvířata
- Užitkovosti CS**
- Průměry po bycích
- Sdílení PH
- Download data XLS

Užitkovosti CS

Search

Číslo	Rok nar.	Jméno Otce	Otec M jm.	GZW	MW	FW	FIT	PH M kg	PH T kg	PH B kg	Dat. ot.	Kg M	Kg T	Kg B	Žije	Link
CZ000499232961	2,012	WALDBRAND	MORROR	98	92	94	110	-523	-5	-16	18.12.14	5,939	278	207	A	🔗
CZ000715911961	2,017	SISYPHUS	WILLE	126	121	111	105	500	31	38	18.01.20	9,936	376	341	A	🔗
CZ000715904961	2,017	SISYPHUS	MANITOBA	119	110	106	113	93	22	7	29.01.20	9,157	368	319	A	🔗
CZ000715884961	2,017	SISYPHUS	HUTERA	132	119	123	115	469	34	20	25.01.20	9,185	390	332	A	🔗
CZ000715926961	2,017	SISYPHUS	RAFFAZHN	116	106	103	114	125	16	3	01.03.20	9,045	380	309	A	🔗
CZ000628053961	2,015	REUMUT	ZAUBER	108	112	87	107	336	20	14	21.08.17	8,676	346	312	A	🔗
CZ000628056961	2,015	REUMUT	ZAUBER	106	108	102	100	291	14	10	22.03.17	7,754	335	272	N	🔗
CZ000595321961	2,014	HUTERA	ETTAL	102	105	103	86	353	7	8	08.06.16	7,777	321	274	A	🔗
CZ000595463961	2,014	HURIKAN	WALDBRAND	103	107	97	100	189	13	7	23.02.17	7,892	331	285	N	🔗
CZ000595340961	2,014	HURIKAN	HUPSOL	112	102	116	109	38	1	6	23.08.16	7,753	338	314	A	🔗
CZ000595336961	2,014	HURIKAN	MANGOPE	108	112	102	88	406	17	16	15.11.16	9,422	358	347	N	🔗
CZ000715744961	2,017	HUGOBOSS	WILLE	122	120	109	105	879	32	29	22.02.20	9,692	404	347	A	🔗
CZ000715779961	2,017	HERZSCHLAG	REUMUT	117	127	109	89	391	46	31	09.04.20	9,817	416	342	A	🔗
CZ000715861961	2,017	HERZSCHLAG	LUPINEK	110	117	107	89	774	31	19	05.11.19	10,063	398	308	A	🔗
CZ000667304961	2,017	HERZSCHLAG	RUMGO	111	125	98	87	572	43	21	24.07.19	8,677	389	320	A	🔗
CZ000715771961	2,017	HERZSCHLAG	RS LEXI	107	113	105	88	507	20	17	14.05.19	7,556	311	263	A	🔗
CZ000715842961	2,017	HERZSCHLAG	ZAPFAHN	115	118	106	97	564	28	23	05.11.19	8,906	376	345	A	🔗
CZ000667302961	2,017	HERZSCHLAG	SAMLAND	114	116	104	99	509	25	20	06.02.20	9,439	394	344	A	🔗
CZ000715757961	2,017	HERZSCHLAG	MANGOPE	119	119	110	98	610	34	21	21.07.19	8,644	369	316	A	🔗
CZ000715783961	2,017	HERZSCHLAG	LUPINEK	100	106	112	84	217	8	8	13.09.19	6,804	289	241	A	🔗
CZ000667278961	2,017	HERZSCHLAG	VANEL	113	121	103	89	750	38	22	04.05.19	10,598	461	387	N	🔗
CZ000715754961	2,017	HERZSCHLAG	ZAUBER	118	125	110	89	824	46	28	13.09.19	9,119	405	334	A	🔗
CZ000715782961	2,017	HERZSCHLAG	LECH	117	121	106	99	715	38	22	10.09.19	9,411	398	328	A	🔗
CZ000715878961	2,017	HERZSCHLAG	MANGOPE	107	118	102	88	703	30	21	09.04.20	10,724	444	351	A	🔗
CZ000667265961	2,017	HERZSCHLAG	ZAPFAHN	122	117	116	103	406	31	17	04.04.19	8,914	393	333	A	🔗

1 2 Next Last Records 1 to 25 of 29 25

Why be a part of CATTLE GENOM

Averages of main genomic traits of genotyped animals
by year of birth

♂ Bulls						♀ Cows				
Year of birth	No.	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	$\bar{x}$ FIT	No.	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	$\bar{x}$ FIT
2020	582	114,49	112,56	102,99	103,91	6 322	108,95	107,86	100,70	103,30
2021	786	118,56	114,29	104,90	107,03	8 401	111,07	108,68	101,87	104,97
2022	783	121,94	117,51	104,48	108,58	10 539	113,62	110,95	102,01	105,96
2023	787	122,32	116,82	105,30	109,74	15 323	113,49	110,50	102,13	106,22
2024	821	123,15	116,53	106,04	110,92	16 994	114,96	111,13	102,71	107,34
2025*	415	126,03	118,09	106,58	113,17	6 614	118,66	113,39	104,27	109,32
Ø 2022 - 2024	2 391	122,48	116,95	105,29	109,77	42 856	114,10	110,86	102,33	106,60

*year 2025 - the period 1.1.2025 - 23.7.2025



CATTLE
GENOM

CATTLE MARKET



- CATTLE MARKET is a subsidiary company of the Czech Fleckvieh Breeders Association, established to support the commercial activities of Czech Fleckvieh breeders.
- The company operates a trading centre in Podolí.
- CATTLE MARKET plays an important role in international trade and export, helping Czech breeders access European markets and find suitable buyers for their cattle.
- The company is the only trading company owned by the Association, with an expected turnover of approximately EUR 16 million in 2026.

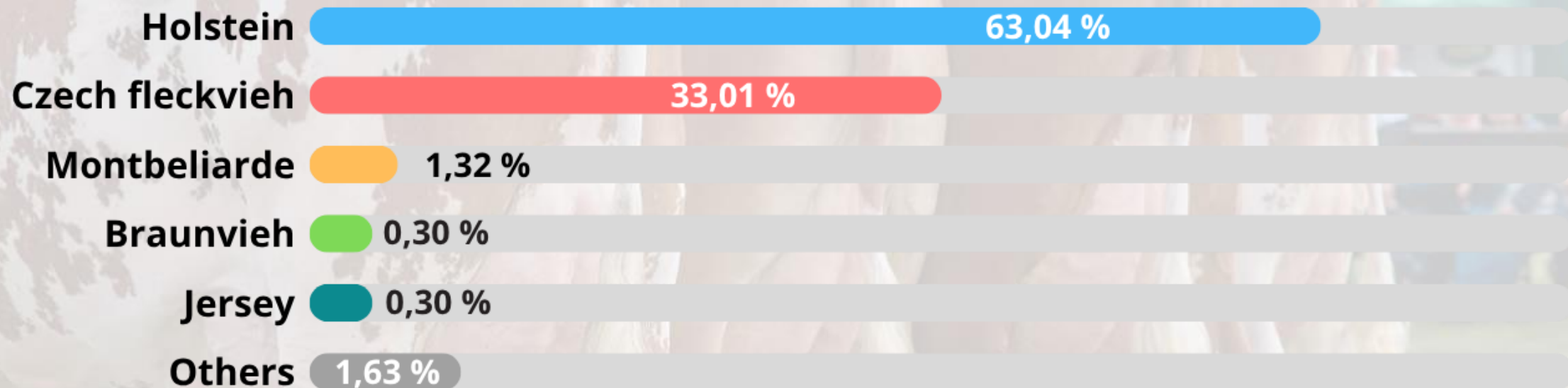


Czech Fleckvieh

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Structure of main dairy breeds



1 390 000

cattle in total

570 000

cows in total

343 000

**cows in milk
recording**

Structure of the farms registered in the herd book (Czech Fleckvieh)

38,9 %

of Farms with
101–300 Cows

21,6 %

of Farms with
301–500 Cows

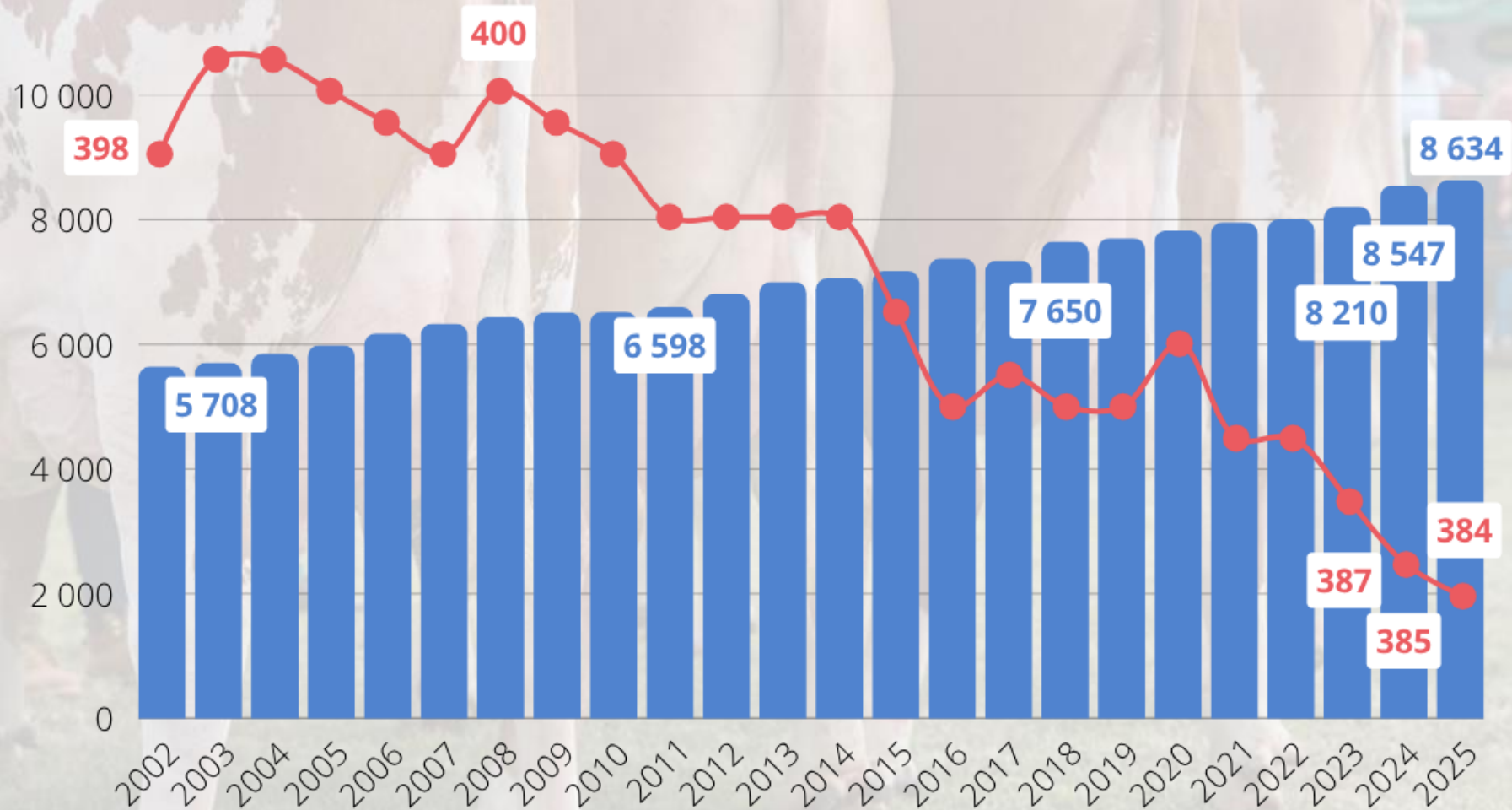
Herd size	N of farms	N of barns	Average per farm	N of cows
10-50	60	66	30,6	1 836
51-100	61	65	77,8	4 746
101-200	91	98	151	13 743
201-300	82	86	251,2	20 599
301-400	54	62	340,7	18 398
401-500	42	58	447,7	18 805
501-600	24	34	545,4	13 089
601-700	13	21	644,1	8 373
701-800	10	17	737,4	7 374
801-900	3	7	841,0	2 523
901 a více	5	7	1 002,2	5 011
celkem	445	523	257,3	114 497

Year-on-year comparison of the number of cows registered in the herd book



	September	October	November	December	January	February	March	April	May	June	July	August
2021/2022	122 712	122 463	122 344	122 129	122 590	122 602	122 822	122 662	122 420	122 273	122 190	121 951
2022/2023	121 393	121 072	120 776	120 552	120 853	120 479	120 177	120 358	120 367	120 083	120 214	119 830
2023/2024	119 288	118 530	117 726	117 167	117 448	116 869	116 932	117 049	116 898	116 569	116 542	115 966
2024/2025	115 198	114 098	113 510	113 233	113 484	113 388	113 594	114 080	114 366	114 667	114 507	114 412

Calving interval and milk production development of recorded Fleckvieh cows



Composition of Czech Fleckvieh cows by milk yield (kg milk)



12,8 %

up to 7 000 kg



24,5 %

7 000 - 8 000 kg



39,5 %

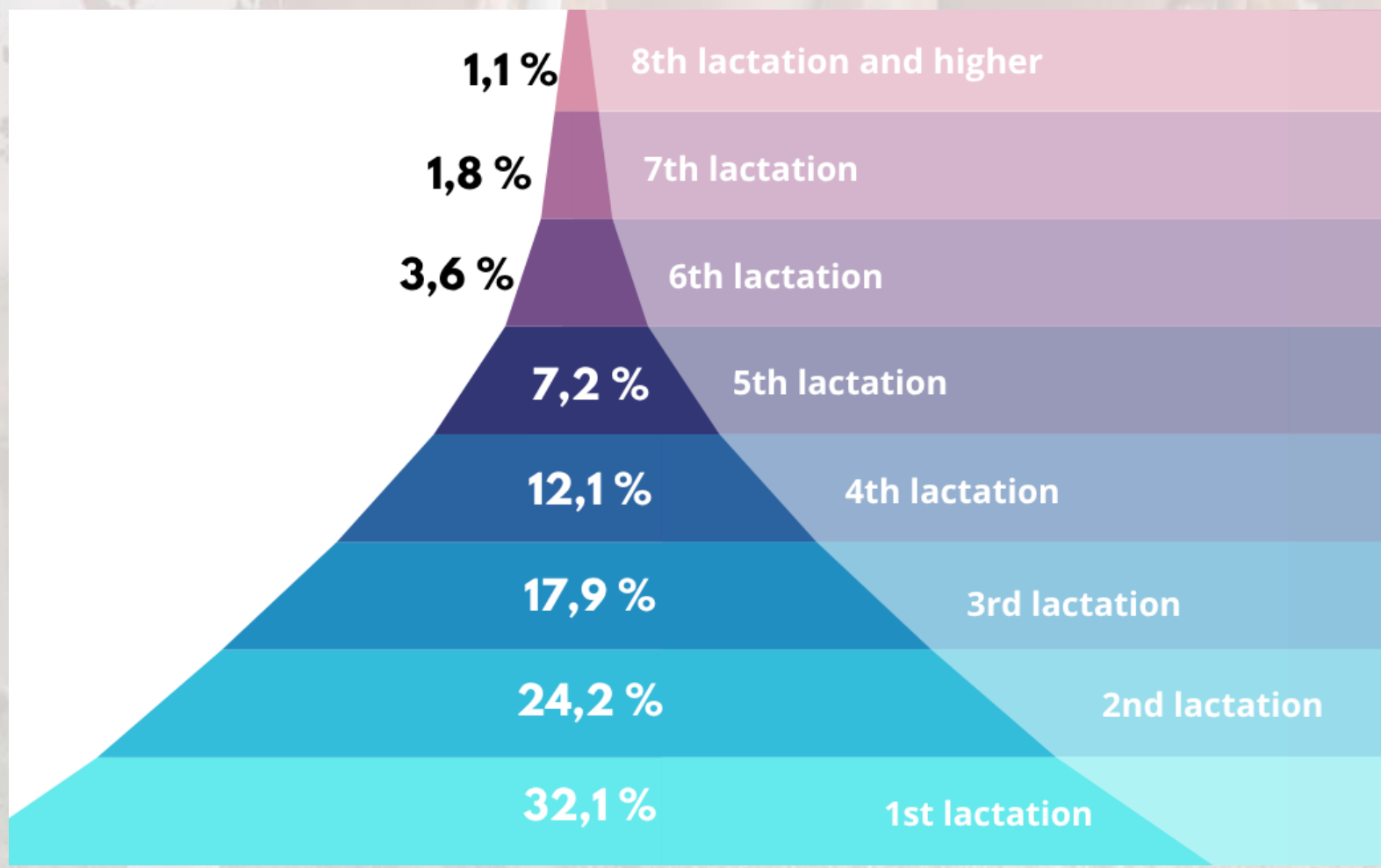
9 000 - 10 000 kg



23,2 %

11 000 kg and more

Distribution of Czech Fleckvieh cows in milk recording by lactation (2024/2025)



Overview of the average milk yield and the number of completed lactations in regions of the Czech republic (2024/2025)



Populace plemene

Český strakatý skot

Vytvořit PDF

Publikace dat
13. 7. 2026 · 07/2025-06/2026

SLEDOVANÉ OBDOBÍ
07/2025 - 06/2026

Vyhledat chovatele podle názvu nebo kódu...

Drobné změny oproti 13. 4. 2026 : zelená = příznivý směr, červená = opačný směr, oranžová 0 = beze změny.

Přehled Užitkovost Reprodukce Genetika Exteriér Býci v inseminaci

Mléko celkem

8 689 kg

↑ +72
Populační hodnota - 07/2025-06/2026

Změny - 10 výpočtů



Bílkovina celkem

310 kg

↑ +4
Populační hodnota - 07/2025-06/2026

Změny - 10 výpočtů



Mezidobí

385,8 dní

↑ +0,5
Populační hodnota - 07/2025-06/2026

Změny - 10 výpočtů



GZW krav celkem

103,5 bodů

↑ +0,2
Populační hodnota - 07/2025-06/2026

Změny - 10 výpočtů



POPULAČNÍ HODNOTY

Výsledky v přehledu

Srovnání chovatelů

Mléko celkem

8 689 kg

↑ +72

457 chovů s hodnotou ↓ -2

Medián chovů 8 693 kg ↑ +89

Mléko na 1 laktaci

7 764 kg

↑ +52

442 chovů s hodnotou ↑ +4

Medián chovů 7 676 kg ↑ +19

Bílkovina celkem

310 kg

↑ +4

457 chovů s hodnotou ↓ -2

Medián chovů 310 kg ↑ +4

VÝVOJ V ČASE

Každý výpočet má své místo

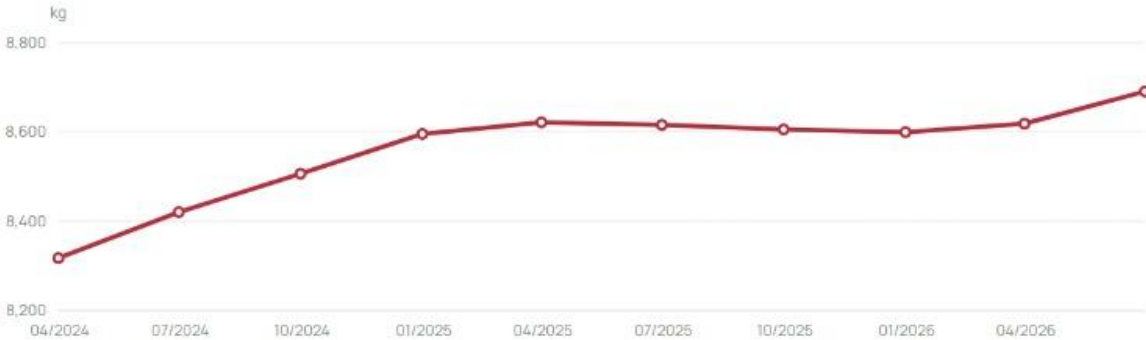


Mléko celkem

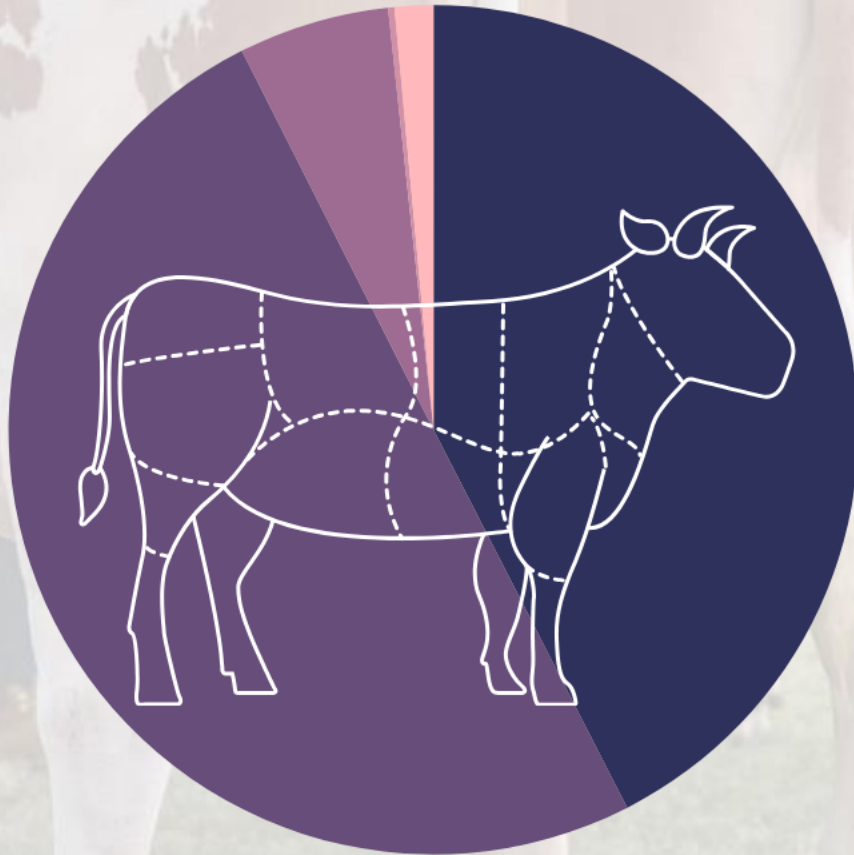
10 výpočtů

Osa hodnot

Automatický rozsah



EUROP classification - classification of Fleckvieh bulls in 2025



E 1,47 %

U 42,47 %

R 50,08 %

O 5,74 %

P 0,24 %

Overview of Bull Registration in the Herd Book

Year	Czech bulls AI	Import AI	Natural breeding Czech bulls
2022	38	71	41
2023	48	74	42
2024	28	75	29
2025	34	72	41

**Most Frequently Used
Sire Bulls– Entered into
the test in 2025**

Sire Bull	Sons in the test
MEGASTAR	9
HEISS	3
MONORON	3
HOPFEN	2

Breeding bulls with the highest number of inseminations (1.1.2025 - 30.9.2025)

Rank	Register	Name	Birth	Category	1st ins.	All ins.	GZW	MW	FW	Country
1	HCH-187	HALOGEN	2023	Genomic	5 153	9 074	140	121	114	DE
2	RAD-572	VIRGINIA	2018	Proven	3 345	6 068	133	125	111	DE
3	MOR-354	MOHER P*S	2022	Genomic	2 473	4 748	124	127	92	CZ
4	MOR-355	MAJO	2018	Proven	2 354	4 606	129	118	112	DE
5	HG-557	KH WARMELIN	2022	Genomic	1 967	4 234	129	127	105	CZ
6	MOR-370	MIRA Pp*	2023	Genomic	2 439	4 228	124	118	106	CZ
7	HCH-130	HILLER	2021	Genomic	2 203	4 156	139	128	117	DE
8	RAD-631	VEMI	2023	Genomic	2 280	4 122	132	127	110	CZ
9	BA-146	DOMINATOR ET	2023	Genomic	2 064	4 050	136	131	113	CZ
10	HCH-173	HIRTSTEIN	2022	Genomic	1 696	3 380	140	130	111	CZ

Thank you for your attention

Space for discussion

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Director

Czech Fleckvieh Breeders Association