

# ANNUAL REPORT 2023/2024



**CESTR**  
svaz chovatelů  
českého strakatého skotu



**CESTR**  
svaz chovatelů  
českého strakatého skotu

**Czech Fleckvieh Breeders Association**

Radešínská Svratka 193, 592 33 Radešínská Svratka

Tel: +420 566 620 917

Email: svaz@cestr.cz

[www.cestr.cz](http://www.cestr.cz)

**Marian Bílý, MBA**

President of the Association

bily@cestr.cz

+420 739 059 445

**SECRETARIAT**

**Ing. Pavel Král**

Director of the Association

kral@cestr.cz

+420 607 618 476

**Ing. Tereza Dodávková**

Advisory specialist

Breeder

dodavkova@cestr.cz

+420 604 480 891

**Ing. Hana Vlčková**

Advisory specialist

vlckova@cestr.cz

+420 728 863 464

**Ing. Jitka Šírová**

Economist

ekonom@cattlemarket.eu

+420 724 753 977



# CONTENT

<b>1. Introduction</b>	<b>1</b>
<b>2. Total Merit Index (GZW) of Fleckvieh</b>	<b>4</b>
<b>3. Development of the cows in milk recording</b>	<b>4</b>
3.1. Breed structure development in milk recorded cows in 2024	5
3.2. Distribution of czech fleckvieh cows in milk recording by lactation (2023/2024)	5
<b>4. Milk production development in milk recorded Czech Fleckvieh cows in 2023/2024</b>	<b>6</b>
4.1. Composition of czech fleckvieh cows by milk yield	6
4.2. Development of milk production and milk components of Czech Fleckvieh cows	6
4.3. Fat and protein production development	7
4.4. Calving interval and milk production development of recorded Fleckvieh cows	7
4.5. Year-on year comparison of the number of cows registered in the herd book	7
4.6. Overview of the milk production of the Czech Fleckvieh cows registered in the herd book	8
4.7. The results of milk recording of Czech Fleckvieh cows registered in herd book	8
4.8. Description and evaluation of the exterior of the Czech Fleckvieh cows by linear traits comparing 22/23	9
4.9. Summary evaluation of exterior of primiparous cows	9
<b>5. The best farms and cows in control year 2023/2024</b>	<b>10</b>
5.1. The best farms in control year 2023/2024 F + P	10
5.2. Fleckvieh cows with the highest production of F + P in control year 2023/2024	11
5.3. Fleckvieh cows with the highest lifetime yield	12
<b>6. Artificial insemination</b>	<b>13</b>
6.1. Proportion of the first and all inseminations in different breeds	13
6.2. Proportion of inseminations of czech and imported bulls in herd book	13
6.3. Proportion of bulls included in insemination and natural mating	13
6.4. Breeding bulls with the highest number of inseminations (1.1.2024-30.9.2024)	14
<b>7. Beef production</b>	<b>16</b>
7.1. Genetic trend of beef production of young bulls	16
7.2. EUROP classification - classification of Fleckvieh bulls in 2024	16
7.3. EUROP classification - classification of Fleckvieh bulls according to herd book section	17
<b>8. Project CATTLE GENOM</b>	<b>18</b>
8.1. Statistics for the 4th year of the project	18
8.2. Year-on-year comparison of the number of recieved samples	18
8.3. Averages of main genomic traits of genotyped animals by year of birth	19
8.4. Top bulls according to GZW of genotyped offspring born in 2023	20
8.5. Top bulls according to MW of genotyped offspring born in 2023	21
8.6. Top bulls according to FW of genotyped offspring born in 2023	21
<b>8. Overview of the average milk yield and the number of completed lactations in regions of the Czech republic (2023/2024)</b>	<b>22</b>

# INTRODUCTION

Esteemed breeders,

the fifth edition of the Annual Report is now in your hands. This Yearbook will give you an overview of the development and trends in the population of Czech Fleckvieh. The average milk yield per lactation has increased significantly by 341 kg to a total of 8 506 kg of milk per lactation. One of the not-so-positive news is the decreasing number of cows in the herd book. In the Annual, you will again find information from milk recording, insemination, or meat production. The tables also include the best barns and sires for this control year 2023/2024. You can see the results of the genetic progress of animals born this year in the CATTLE GENOM project section, where you will also find a new comparison of bulls (sires) by genotyped animals (offspring) born in 2023.

**2023 / 2024**



**10 128 kg**

AVERAGE MILK YIELD  
OF ALL BREEDS



**336 390**

DAIRY COWS



**CESTR**

svaz chovatelů  
českého strakatého skotu



**98 526**

FINISHED LACTATIONS OF  
CZECH FLECKVIEH BREED

# FLECKVIEH



MILK

**8 506 kg**

 **+ 341 kg**  
compared to  
2023



FAT

**332 kg**  
**3,91 %**


 **+ 8 kg**  
compared to  
2023



PROTEIN

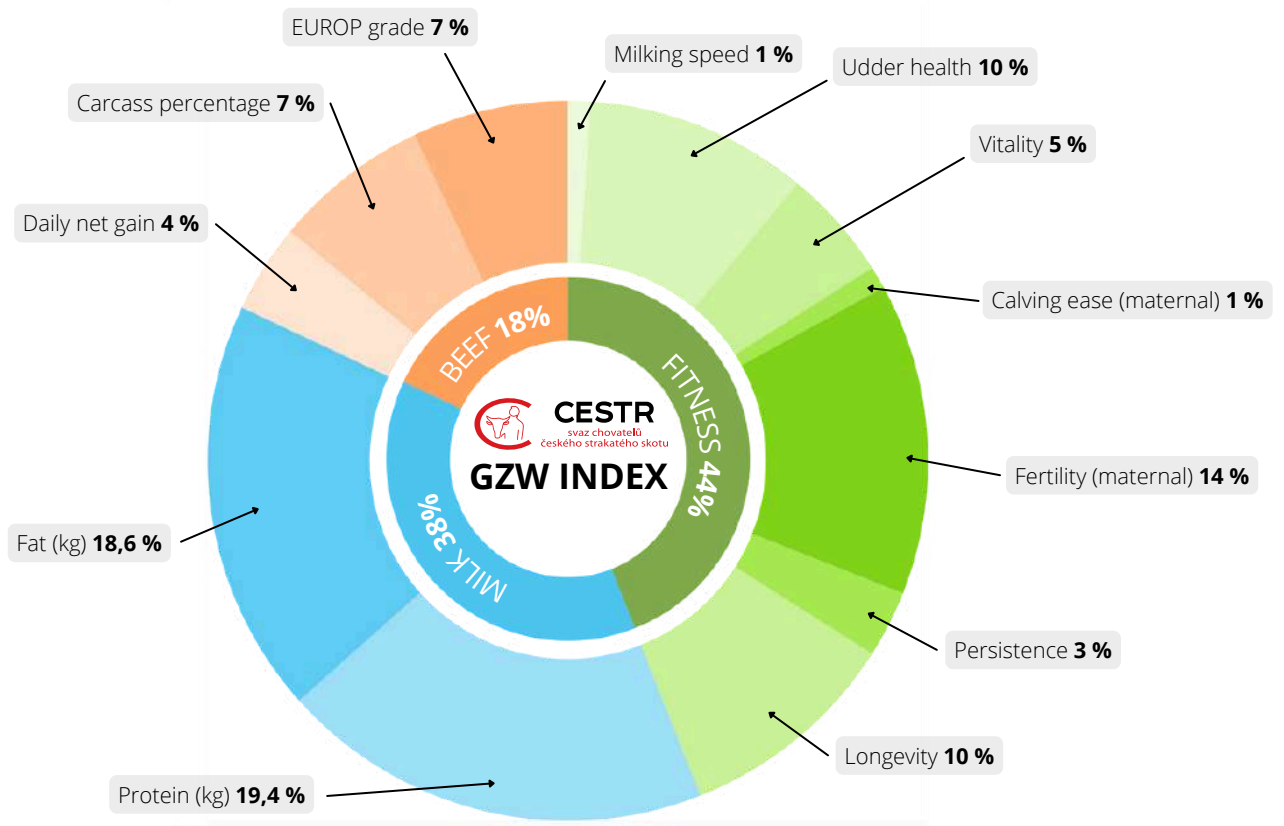
**300 kg**  
**3,53 %**

PROTEIN  
+ FAT

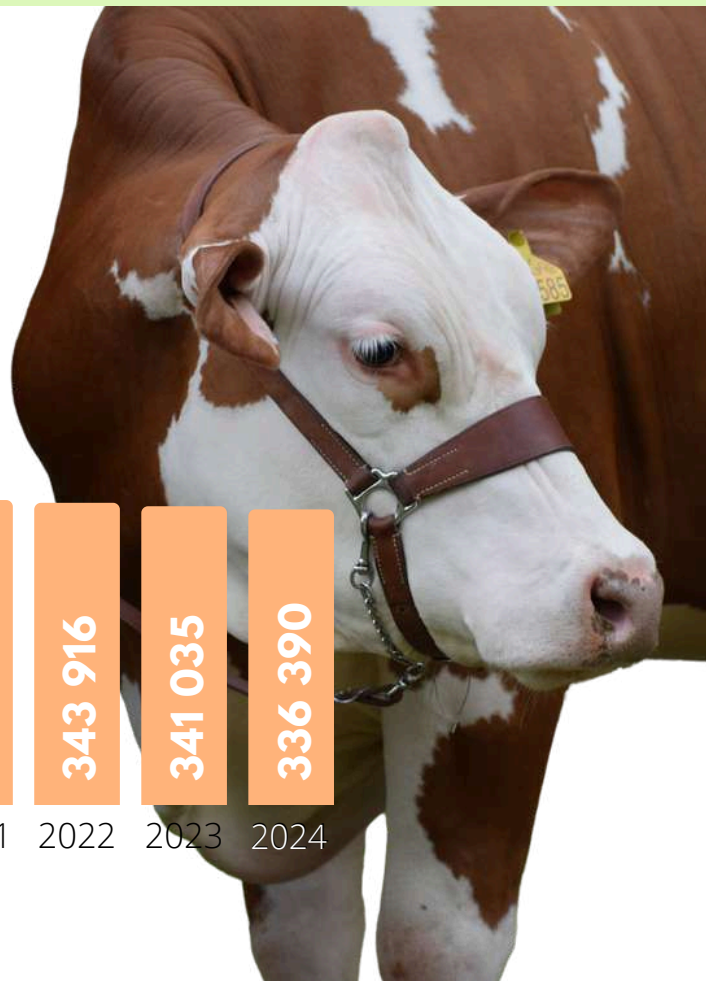
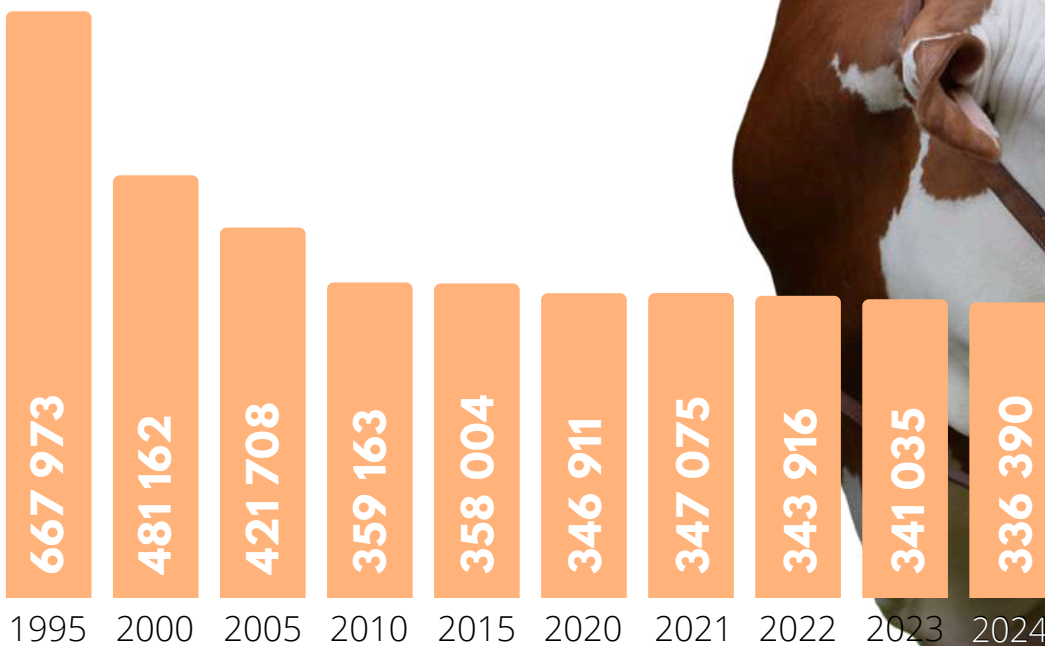
**632 kg**  
 **+ 21 kg**  
compared to  
2023

 **+13 kg**  
compared to  
2023

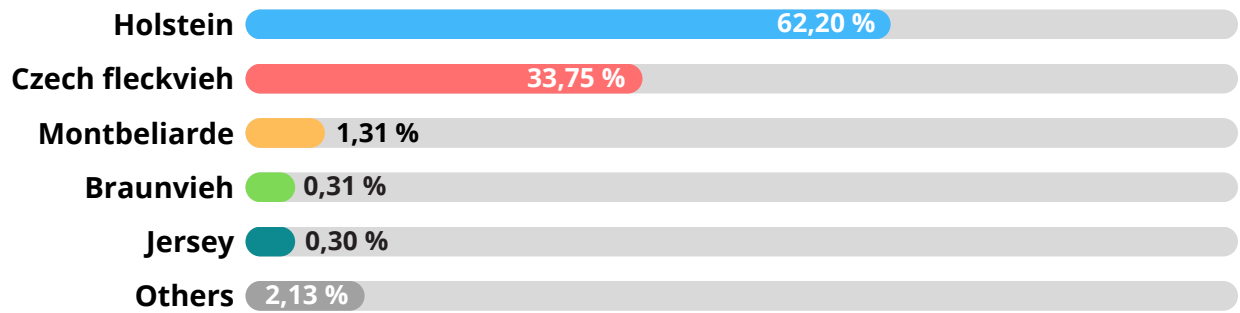
## 2. TOTAL MERIT INDEX (GZW) OF FLECKVIEH



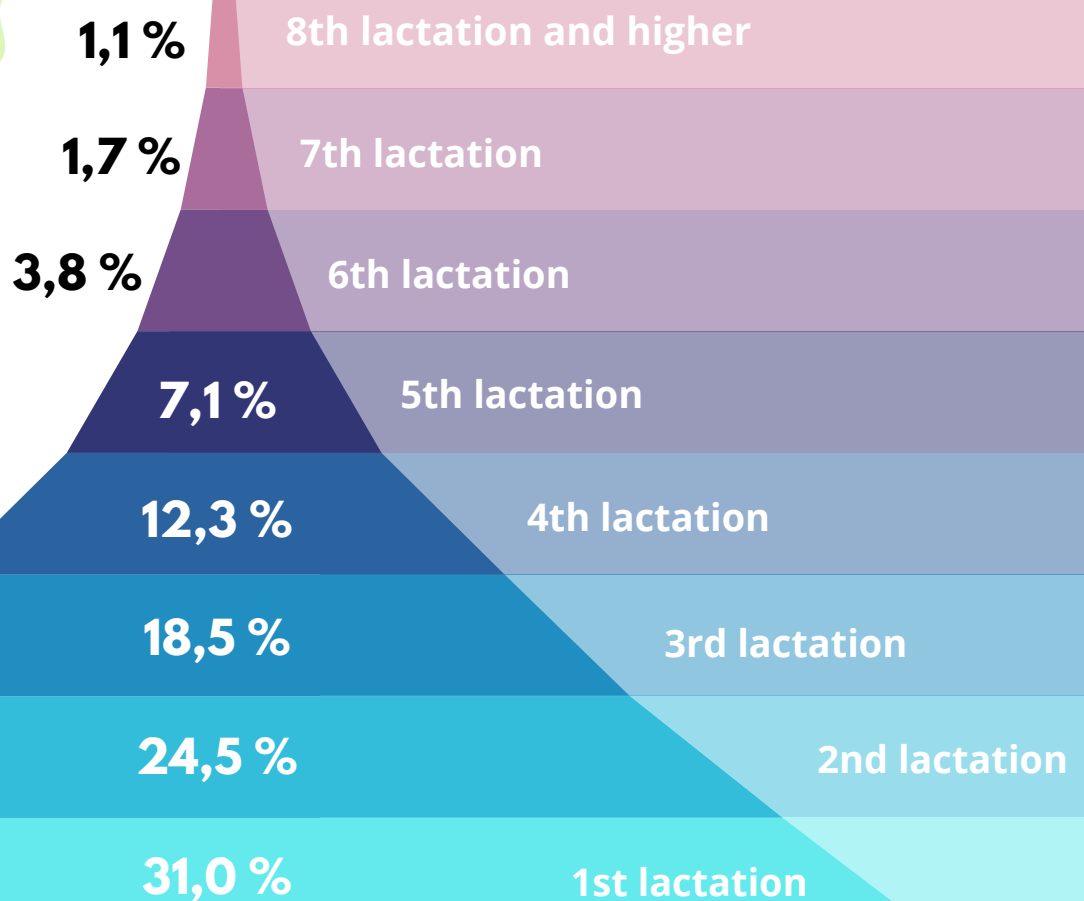
## 3. DEVELOPMENT OF THE COWS IN MILK RECORDING



### 3.1. BREED STRUCTURE DEVELOPMENT IN MILK RECORDED COWS IN 2024

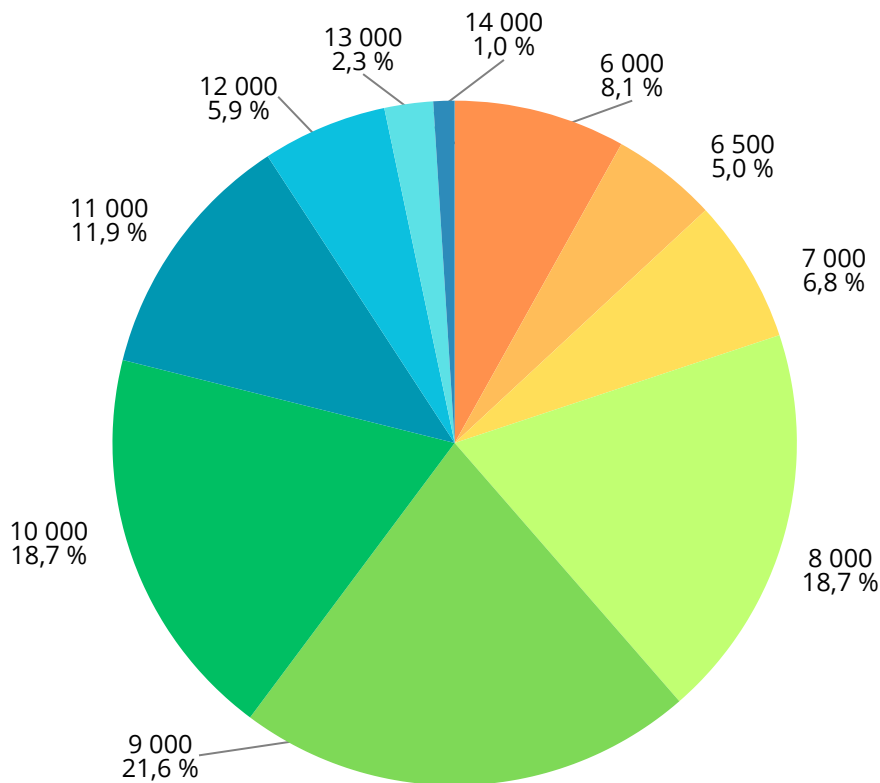


### 3.2. DISTRIBUTION OF CZECH FLECKVIEH COWS IN MILK RECORDING BY LACTATION (2023/2024)



## 4. MILK PRODUCTION DEVELOPMENT OF RECORDED CZECH FLECKVIEH COWS IN 2023/2024

### 4.1. COMPOSITION OF CZECH FLECKVIEH COWS BY MILK YIELD (KG MILK)



**13,1 %**  
up to 7 000 kg



**25,5 %**  
7 000 - 8 000 kg

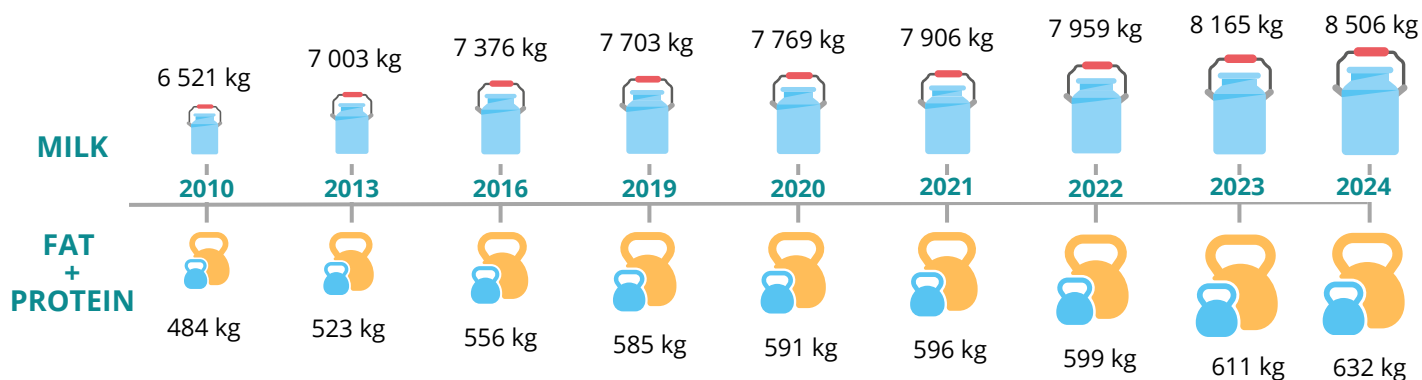


**40,3 %**  
9 000 - 10 000 kg



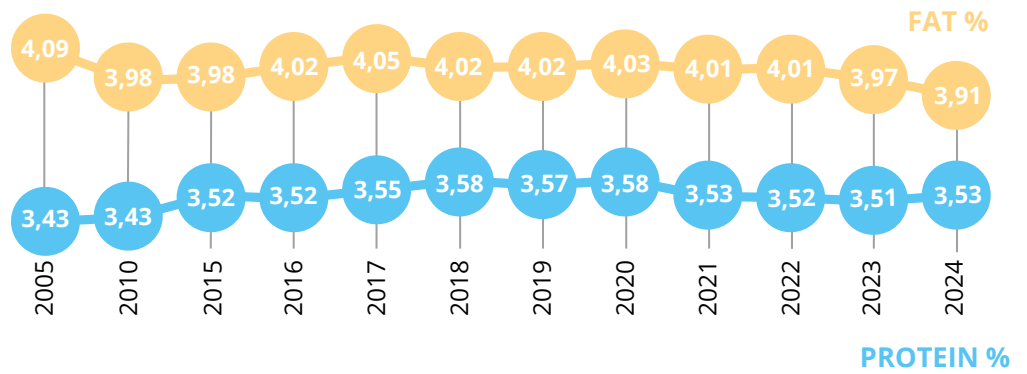
**21,1 %**  
11 000 kg and more

### 4.2. DEVELOPMENT OF MILK PRODUCTION AND MILK COMPONENTS OF CZECH FLECKVIEH COWS

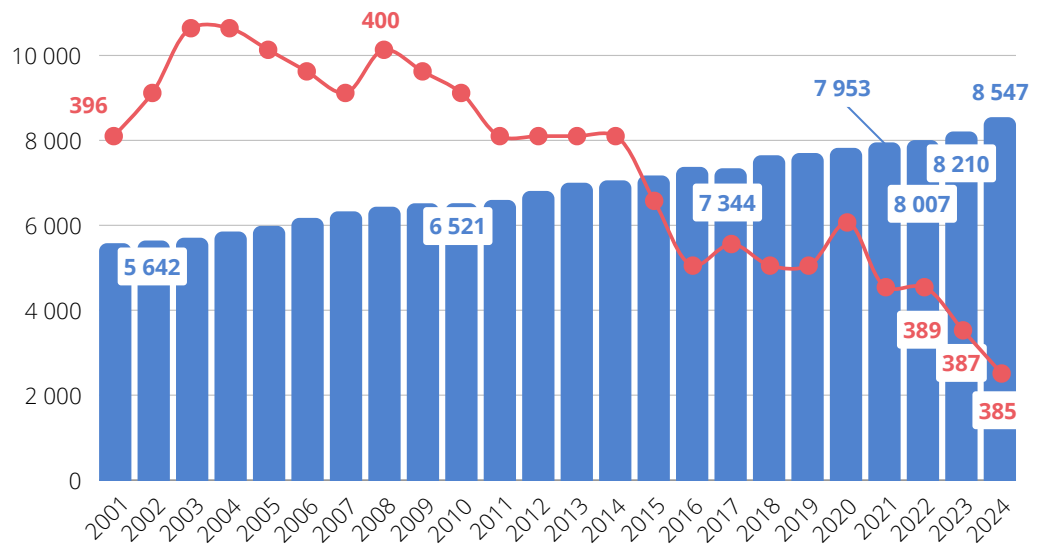




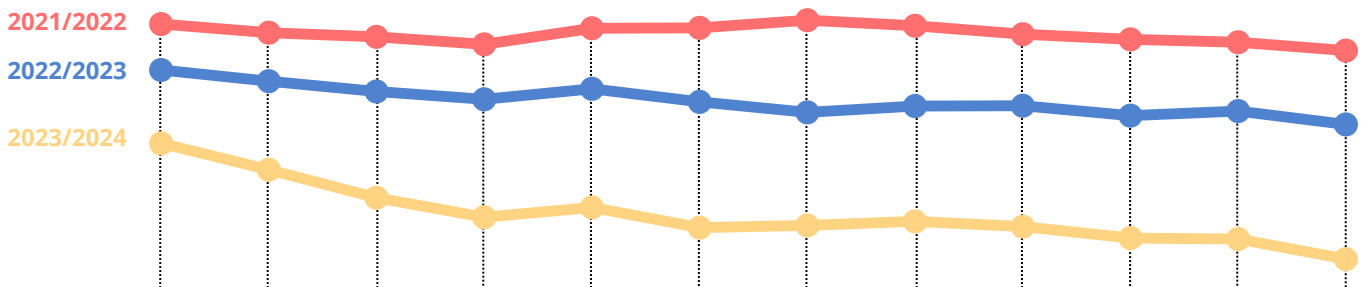
#### 4.3. FAT AND PROTEIN PRODUCTION DEVELOPMENT



#### 4.4. CALVING INTERVAL AND MILK PRODUCTION DEVELOPMENT OF RECORDED FLECKVIEH COWS

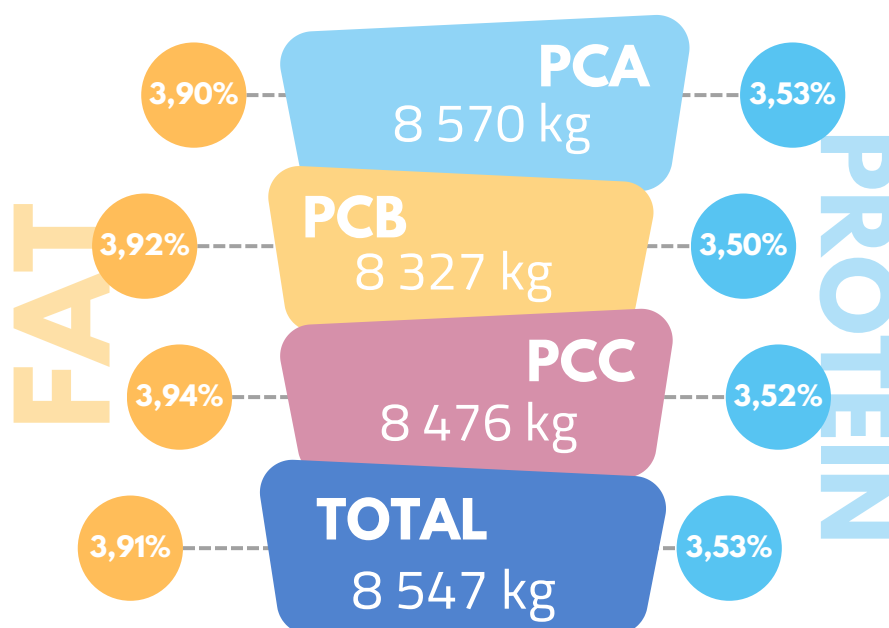


#### 4.5. YEAR-ON-YEAR COMPARISON OF THE NUMBER OF COWS REGISTERED IN THE HERD BOOK



	September	October	November	December	January	February	March	April	May	June	July	August
<b>2021/2022</b>	122 712	122 463	122 344	122 129	122 590	122 602	122 822	122 662	122 420	122 273	122 190	121 951
<b>2022/2023</b>	121 393	121 072	120 776	120 552	120 853	120 479	120 177	120 358	120 367	120 083	120 214	119 830
<b>2023/2024</b>	119 288	118 530	117 726	117 167	117 448	116 869	116 932	117 049	116 898	116 569	116 542	115 966

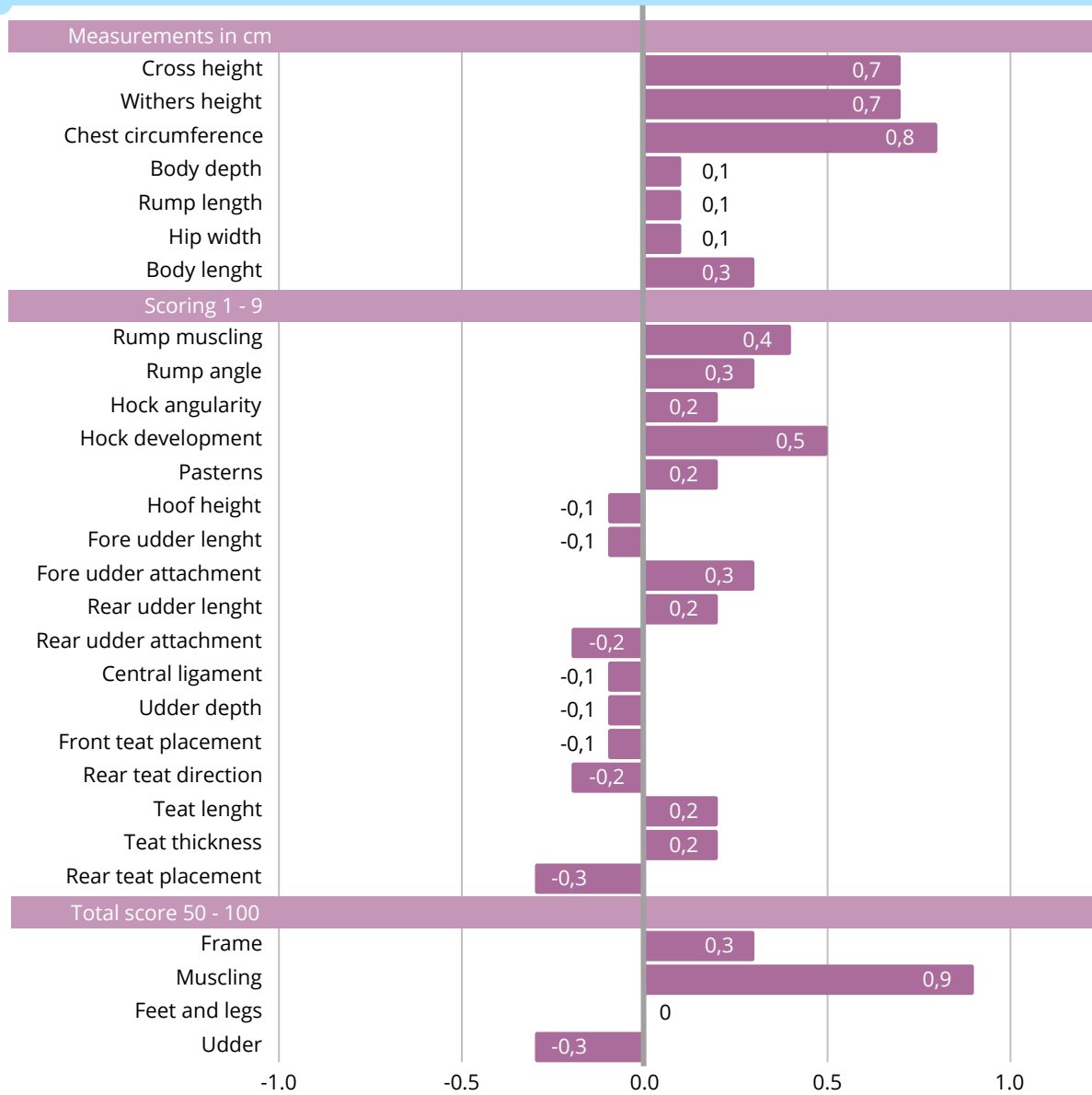
#### 4.6. OVERVIEW OF THE MILK PRODUCTION OF THE CZECH FLECKVIEH COWS REGISTERED IN THE HERD BOOK



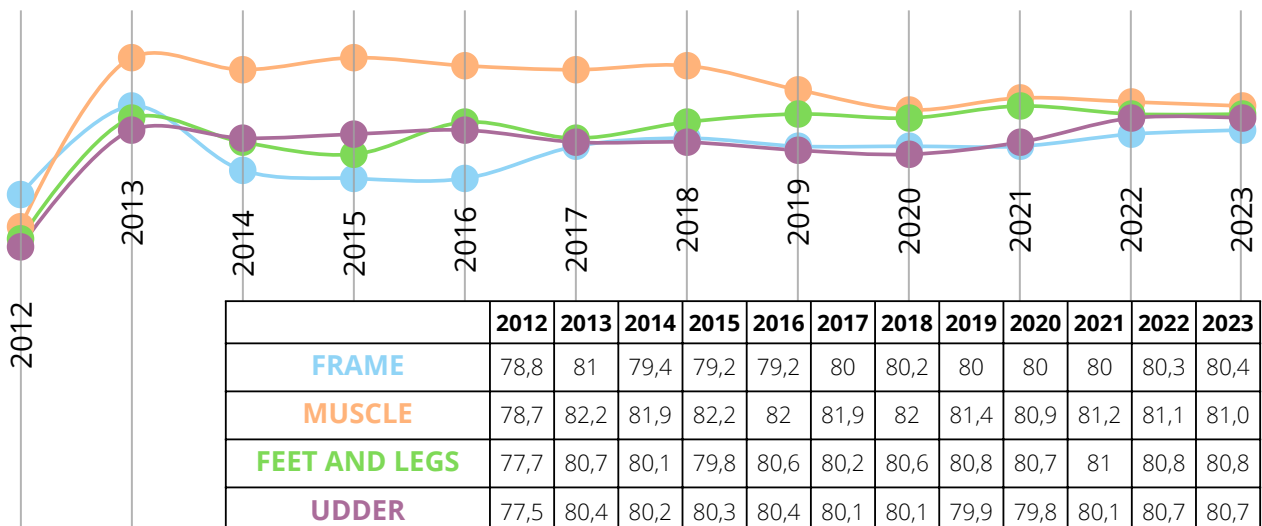
#### 4.7. THE RESULTS OF MILK RECORDING OF CZECH FLECKVIEH COWS REGISTERED IN HERD BOOK

		Lactations	$\bar{x}$ lactation ranking	Milk kg	Fat %	Protein %	Age of first calving / Calving interval
PCA	1st lactation	32 682		<b>7 623</b>	3,97	3,56	26/30
	2nd and higher lac.	74 748	3,3	<b>9 021</b>	3,88	3,52	385
	Total	107 430	2,5	<b>8 570</b>	3,90	3,53	
PCB	1st lactation	1 896		<b>7 451</b>	3,99	3,55	27/04
	2nd and higher lac.	6 871	3,9	<b>8 593</b>	3,91	3,49	391
	Total	8 767	3,2	<b>8 327</b>	3,92	3,50	
PCC	1st lactation	2 379		<b>7 504</b>	3,98	3,55	27/09
	2nd and higher lac.	6 331	3,4	<b>8 884</b>	3,93	3,52	389
	Total	8 710	2,7	<b>8 476</b>	3,94	3,52	
TOTAL FOR HERD BOOK	1st lactation	36 957		<b>7 607</b>	3,97	3,56	27/01
	2nd and higher lac.	87 950	3,3	<b>8 979</b>	3,88	3,52	385
	Total	124 907	2,6	<b>8 547</b>	3,91	3,53	

#### 4.8. DESCRIPTION AND EVALUATION OF THE EXTERIOR OF THE CZECH FLECKVIEH COWS BY LINEAR TRAITS COMPARING 2022 AND 2023



#### 4.9. SUMMARY EVALUATION OF EXTERIOR OF PRIMIPAROUS COWS



## 5. THE BEST FARMS AND COWS IN CONTROL YEAR 2023/2024

### 5.1. THE BEST FARMS IN CONTROL YEAR 2023/2024 F + P

Rank	Breeder	Farm	N lact.	Milk kg	F %	F kg	P %	P kg	F + P kg	Calv. inter.
1	ZS Nalžovice, a.s.	Nová Ves VKK	406	10 910	4,14	451	3,45	376	<b>827</b>	367
2	VOD Zdislavice	Zdislavice C	354	11 197	3,79	425	3,51	393	<b>818</b>	361
3	ZEOS Kamenice, s.r.o.	Kamenička	200	10 965	3,83	420	3,54	388	<b>808</b>	383
4	LUKRENA a.s.	Řenče VKK CESTR	130	11 117	3,73	415	3,51	390	<b>805</b>	368
5	ZD Okrouhlička	Okrouhlička	191	10 789	3,84	415	3,50	377	<b>792</b>	400
6	AGRA Březnice a.s.	Březnice	425	10 100	4,24	429	3,56	360	<b>789</b>	394
7	ZD Pluhův Žďár	K532 - C	227	10 350	3,92	406	3,64	377	<b>783</b>	374
8	PODORLICKO a.s. MISTROVICE	Verměřovice MF	391	10 637	3,78	402	3,55	378	<b>780</b>	373
9	Zemědělská a.s. Horní Bradlo	Javorné	423	10 669	3,81	406	3,50	373	<b>779</b>	377
10	ZS Dobříš, s.r.o.	Mokrovraty VKK	295	10 162	3,98	404	3,65	370	<b>774</b>	365
11	ŽIHELSKÝ STATEK, a.s.	Žihle	169	10 103	4,06	410	3,59	363	<b>773</b>	390
12	ZD Libín	Libín 6R	133	10 399	3,79	394	3,62	376	<b>770</b>	363
13	Zbirožská a.s.	Cheznovice	255	9 952	4,25	422	3,49	347	<b>769</b>	394
14	AGRO Posázaví, a.s.	Vadín	73	10 816	3,71	402	3,37	365	<b>767</b>	399
15	DVPM Slavíkov	Slavíkov, UE, KU, INS.	66	10 983	3,53	388	3,44	377	<b>765</b>	354
16	Volanická zemědělská, a.s.	Veselská Lhota VKK	480	10 635	3,71	395	3,46	368	<b>763</b>	377
17	DV Police nad Metují	Suchý Důl VKK	359	10 046	3,88	390	3,64	366	<b>756</b>	391
18	VIKA Kameničná a.s.	Kněžství K	236	10 596	3,74	396	3,39	359	<b>755</b>	376
19	Novák Jaroslav	Osletín 3	60	9 814	4,09	401	3,61	354	<b>755</b>	433
20	ZOD "Blata"	Sedlec robot	22	10 183	3,82	389	3,53	360	<b>749</b>	377
21	Školní statek Humpolec	Humpolec, Dusilov 384	237	10 116	3,92	397	3,48	352	<b>749</b>	396
22	ZD Nová Ves - Víška	Nová Ves	389	10 724	3,40	365	3,52	377	<b>742</b>	381
23	ZOD DEJAS	Dzbel	151	10 258	3,77	387	3,46	355	<b>742</b>	378
24	ZD Chyšky	Ratiboř	329	10 098	3,87	391	3,46	349	<b>740</b>	406
25	D-K zemědělská a.s.	Kožlany	315	9 883	3,99	394	3,50	346	<b>740</b>	411



## 5.2. FLECKVIEH COWS WITH THE HIGHEST PRODUCTION OF F + P IN CONTROL YEAR 2023/2024

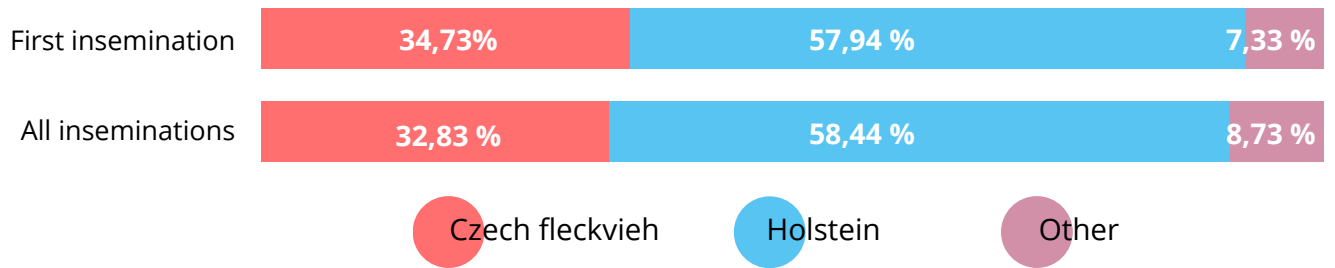
Rank	Cow	Breeder	Sire	Sire-name	SM	Lac.	Milk kg	F %	F kg	P %	P kg	F + P kg	Calving interval
1	CZ000467704921	VOD Zdislavice	HCH-026	GS HENDORF	HG-414	3	18 128	3,71	673	3,43	622	<b>1295</b>	407
2	CZ000467626921	VOD Zdislavice	HG-426	WOBBLER	AMT-065	4	18 522	3,42	634	3,33	617	<b>1251</b>	385
3	CZ000818217931	ZOD Kluky	HCH-034	HUBERUS	NIC-017	3	16 236	4,11	668	3,57	580	<b>1248</b>	340
4	CZ000468226921	VOD Zdislavice	HEL-131	NITCHI	HEL-119	3	17 451	3,54	618	3,58	625	<b>1243</b>	348
5	CZ000467691921	VOD Zdislavice	HCH-026	GS HENDORF	SOB-008	3	16 633	3,64	606	3,54	589	<b>1195</b>	364
6	CZ000468026921	VOD Zdislavice	HCH-039	PASCAL	HUS-010	3	15 996	3,83	613	3,64	582	<b>1195</b>	373
7	CZ000467613921	VOD Zdislavice	HCH-026	GS HENDORF	HEL-097	4	16 069	3,85	619	3,57	574	<b>1193</b>	336
8	CZ000467852921	VOD Zdislavice	UF-213	MAXIMO	SOB-008	3	15 368	3,98	612	3,68	566	<b>1178</b>	375
9	CZ000445027921	VOD Zdislavice	HEL-097	CRUMBLE	UF-131	6	16 545	3,74	619	3,38	559	<b>1178</b>	345
10	CZ000792288931	ZD Chyšky	HEL-119	JORDREN	NIC-015	3	13 955	4,66	651	3,76	525	<b>1176</b>	363
11	CZ000467485921	VOD Zdislavice	HG-426	WOBBLER	HEL-097	4	16 643	3,59	598	3,47	577	<b>1175</b>	353
12	CZ000467950921	VOD Zdislavice	HG-393	MESIAS	RAD-483	3	15 890	3,96	629	3,43	545	<b>1174</b>	345
13	CZ000818200931	ZOD Kluky	BD-102	SUPERSTAR	RAD-387	3	15 576	4,18	651	3,33	519	<b>1170</b>	378
14	CZ000467630921	VOD Zdislavice	HG-426	WOBBLER	HCH-013	4	16 229	3,59	583	3,60	585	<b>1168</b>	419
15	CZ000468080921	VOD Zdislavice	HCH-048	HAWAI	AMT-066	3	15 896	3,92	623	3,43	545	<b>1168</b>	341
16	CZ000467374921	VOD Zdislavice	HEL-119	JORDREN	AMT-070	5	15 762	3,86	609	3,53	556	<b>1165</b>	346
17	CZ000446277953	ZOD Žichlínek	RAD-439	KWASHA	AMT-050	4	15 501	3,92	607	3,56	552	<b>1159</b>	336
18	CZ000468233921	VOD Zdislavice	HCH-057	HERMELIN	UF-205	2	16 044	3,74	600	3,47	557	<b>1157</b>	389
19	CZ000478866921	ZS Dobříš, s.r.o.	EG-039	EPINAL	BD-065	4	15 441	3,97	613	3,52	544	<b>1157</b>	342
20	CZ000712441961	DVP, družstvo	HCH-043	POLICAK	RAD-483	3	14 044	4,74	666	3,50	491	<b>1157</b>	450
21	CZ000714428931	ZD Bělčice	TAR-083	LELABEL	UF-203	3	15 665	4,12	646	3,24	507	<b>1153</b>	484
22	CZ000468115921	VOD Zdislavice	EG-049	REMEK	AMT-050	3	17 386	3,12	543	3,46	602	<b>1145</b>	358
23	CZ000467528921	VOD Zdislavice	HG-426	WOBBLER	HCH-013	4	15 929	3,89	619	3,21	511	<b>1130</b>	338
24	CZ000419753953	ZOD Žichlínek	HCH-013	HERZ	AMT-017	4	16 098	3,85	620	3,17	510	<b>1130</b>	348
25	CZ000467829921	VOD Zdislavice	HG-426	WOBBLER	RAD-483	3	15 639	3,68	575	3,54	554	<b>1129</b>	340
26	CZ000362716953	ZOD Žichlínek	MOR-229	MANTON	RAD-155	6	14 884	4,21	626	3,38	503	<b>1129</b>	400
27	CZ000467783921	VOD Zdislavice	UF-204	FLIPEX	HG-365	3	15 593	3,58	558	3,66	570	<b>1128</b>	353
28	CZ000528434932	ZAS Koloveč	NIC-015	VALFIN JB	HEL-082	4	13 880	4,46	619	3,66	508	<b>1127</b>	390
29	CZ000468404921	VOD Zdislavice	HG-442	WAVE	RAD-528	2	16 054	3,59	577	3,41	548	<b>1125</b>	344
30	CZ000467572921	VOD Zdislavice	HG-426	WOBBLER	NIC-015	4	15 692	3,59	563	3,58	561	<b>1124</b>	364
31	CZ000561645932	Farma Čihaň s.r.o.	POL-018	OMAGUA	HG-370	3	16 530	3,51	581	3,28	543	<b>1124</b>	453
32	CZ000653630931	ZD Pluhův Žďár	NIC-015	VALFIN JB	AMT-050	5	14 503	4,24	615	3,50	507	<b>1122</b>	390
33	CZ000445001921	VOD Zdislavice	HEL-108	NELSON	GEH-003	6	16 297	3,66	597	3,20	522	<b>1119</b>	349
34	CZ000792142931	ZD Netřebice	AMT-106	OPATA	NXB-191	4	15 322	3,75	574	3,54	543	<b>1117</b>	392
35	CZ000527336932	Zbirožská a.s.	MOR-211	IKONA	RAD-451	4	14 474	4,22	611	3,50	506	<b>1117</b>	356
36	CZ000467014921	VOD Zdislavice	ZEL-118	ZOCKER	UF-169	5	15 013	3,94	591	3,50	525	<b>1116</b>	354
37	CZ000786974931	AGRA Břežnice a.s.	MOR-263	MANDRIN	AMT-050	3	13 892	4,60	639	3,43	477	<b>1116</b>	353
38	CZ000894971931	ZD Pluhův Žďár	HEL-125	MAULEON	SOB-008	2	16 903	3,27	553	3,32	562	<b>1115</b>	327
39	CZ000460502953	ZOD Žichlínek	RAD-439	KWASHA	RAD-337	3	14 859	4,05	602	3,44	511	<b>1113</b>	351
40	CZ000467457921	VOD Zdislavice	HEL-115	JUMPER	HUS-010	4	14 623	3,82	558	3,75	549	<b>1107</b>	357
41	CZ000506121953	Zemědělská a.s. Horní Bradlo	RAD-555	SEMTEX	RAD-509	2	15 081	3,95	595	3,37	508	<b>1103</b>	402
42	CZ000708254961	AGRO Posázaví, a.s.	UF-205	HARPON	UF-084	4	15 332	3,76	576	3,43	526	<b>1102</b>	371
43	CZ000475235921	ZS Nalžovice, a.s.	HCH-018	HERZSCHLAG	HG-426	2	12 963	5,06	656	3,44	446	<b>1102</b>	358
44	CZ000421838953	Zemědělská a.s. Horní Bradlo	RAD-524	IMPERATIV	NIC-015	3	13 045	4,48	585	3,95	515	<b>1100</b>	472
45	CZ000718632961	Havlíčková Borová zem. a.s.	RAD-502	VEUERWERK	RAD-214	3	14 914	3,74	558	3,61	539	<b>1097</b>	457
46	CZ000467495921	VOD Zdislavice	EG-042	EXTREM	AMT-050	4	15 255	3,76	574	3,42	522	<b>1096</b>	337
47	CZ000815286961	Školní statek Humpolec	MOR-227	LADA	HEL-070	3	13 598	4,44	604	3,62	492	<b>1096</b>	528
48	CZ000375314952	AD Lhota pod Libčany	HEL-106	DOLLEY	AMT-065	4	12 984	4,70	610	3,74	486	<b>1096</b>	500
49	CZ000378268952	ZD ŠTĚDRÝ POTOK	RAD-497	VERMEER	HG-339	4	14 429	4,08	589	3,51	506	<b>1095</b>	363
50	CZ000425229952	Volanická zemědělská, a.s.	UF-205	HARPON	HG-387	3	15 122	3,99	603	3,25	492	<b>1095</b>	397

## 5.2. FLECKVIEH COWS WITH THE HIGHEST LIFETIME YIELD

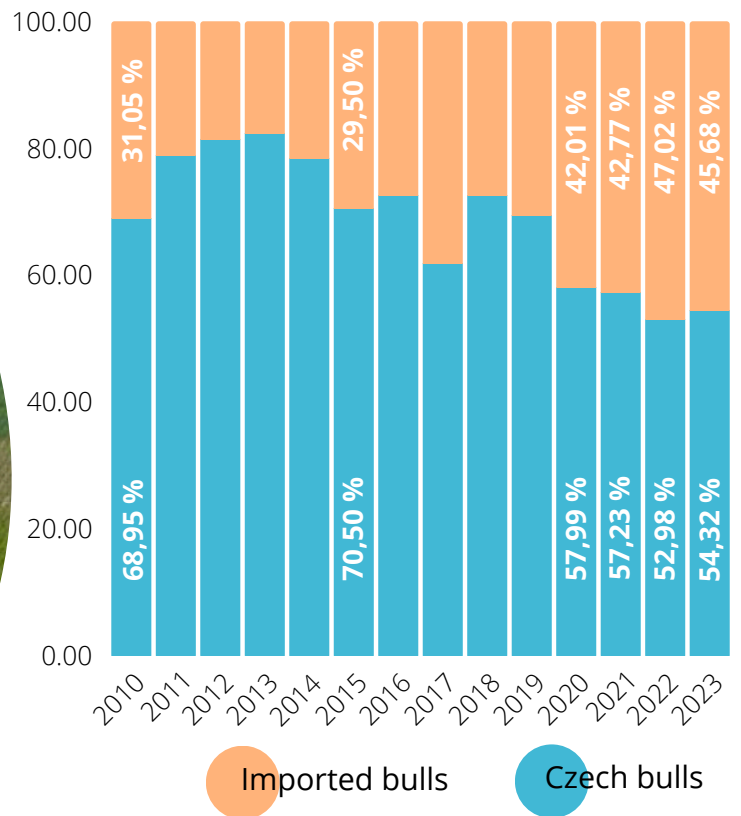
Rank	Cow	Breeder	Sire	Lac.	Milk kg	F %	F kg	P %	P kg	F + P
1	CZ000234061921	AGROSPOL, VOD Bubovice	HEL-058	12	<b>147 179</b>	3,51	4 630	3,21	4 238	8 868
2	CZ000403314961	ZD Nová Ves - Víška	HG-315	13	<b>134 757</b>	3,19	4 085	3,24	4 141	8 226
3	CZ000305327961	VOD se sídlem v Kámeně	MOR-163	12	<b>130 821</b>	4,17	4 934	3,49	4 130	9 064
4	CZ000175039931	ZD Popelín	NIC-010	16	<b>129 702</b>	3,95	5 014	3,41	4 331	9 345
5	CZ000233210953	ZD "Mezilesí" Telecí	RAD-321	9	<b>126 733</b>	3,97	3 921	3,51	3 467	7 388
6	CZ000376855961	ZD Okrouhlička	RAD-292	12	<b>126 096</b>	3,92	4 434	3,34	3 773	8 207
7	CZ000143920951	ZETKA Strážník a.s.	HG-311	12	<b>125 394</b>	3,62	4 066	3,44	3 866	7 932
8	CZ000456884961	Školní statek Humpolec	HG-215	10	<b>124 037</b>	4,23	4 661	3,40	3 745	8 406
9	CZ000207447952	Agrodružstvo Lhota pod Libčany	HEL-060	12	<b>122 767</b>	3,44	3 715	3,46	3 736	7 451
10	CZ000238099952	ZAS Mžany, a.s.	RAD-314	11	<b>121 260</b>	4,10	4 723	3,46	3 994	8 717
11	CZ000503547961	ZD Nová Ves - Víška	HG-335	8	<b>118 465</b>	3,69	3 376	3,59	3 284	6 660
12	CZ000400410961	PROAGRO Radešinská Svratka, a.s.	RAD-265	13	<b>117 803</b>	4,36	5 057	3,73	4 319	9 376
13	CZ000198134932	ZAS Koloveč	HEL-052	13	<b>116 897</b>	4,13	4 585	3,44	3 814	8 399
14	CZ000338021961	ZD Nová Ves - Víška	MOR-119	12	<b>116 114</b>	3,51	4 007	3,46	3 957	7 964
15	CZ000132921971	ZD MORAVAN - Prostějov	RAD-064	10	<b>115 919</b>	3,65	2 993	3,22	2 636	5 629
16	CZ000308544921	VOD Zdislavice	BCH-102	10	<b>115 776</b>	3,75	4 101	3,48	3 804	7 905
17	CZ000185390953	ZOD "Bratranců Veverkových" Živanice	REZ-368	13	<b>115 487</b>	4,50	4 569	3,78	3 846	8 415
18	CZ000437454931	ZD Ločenice	NIC-015	11	<b>114 121</b>	3,90	3 731	3,49	3 341	7 072
19	CZ000273312961	DVPM Slavíkov	BCH-076	11	<b>113 938</b>	3,48	3 577	3,20	3 292	6 869
20	CZ000500074931	ZD Bělčice	AMT-065	8	<b>111 801</b>	3,76	3 629	3,15	3 034	6 663
21	CZ000283487953	Zemědělská a.s. Horní Bradlo	NIC-015	10	<b>111 763</b>	3,33	3 528	3,48	3 686	7 214
22	CZ000388321921	AGRO DRUŽSTVO Načeradec	RAD-318	8	<b>111 540</b>	3,69	3 845	3,40	3 542	7 387
23	CZ000456865961	Školní statek Humpolec	HEL-070	10	<b>111 358</b>	4,27	4 253	3,51	3 498	7 751
24	CZ000291078952	Volanická zemědělská, a.s.	RAD-442	9	<b>111 286</b>	3,89	3 801	3,52	3 432	7 233
25	CZ000268731953	ZD "Mezilesí" Telecí	BA-109	11	<b>110 768</b>	3,77	3 714	3,47	3 423	7 137
26	CZ000259350932	ZAS Koloveč	UF-036	11	<b>110 608</b>	4,09	4 067	3,38	3 362	7 429
27	CZ000219920952	ZD Žernov	RAD-323	12	<b>110 415</b>	3,41	3 307	3,14	3 049	6 356
28	CZ000161440942	Rodinná farma Suchý	UF-084	8	<b>110 304</b>	3,52	3 597	3,27	3 336	6 933
29	CZ000417248931	ZD Bělčice	NIC-015	11	<b>110 096</b>	4,29	4 113	3,40	3 260	7 373
30	CZ000243629953	Zderaz, zemědělské družstvo	UF-094	10	<b>110 044</b>	4,30	3 886	3,58	3 233	7 119
31	CZ000460175931	ZD Bělčice	UF-141	11	<b>109 354</b>	4,10	4 107	3,36	3 361	7 468
32	CZ000207162962	Družstvo ZAGRA	MOR-119	10	<b>108 802</b>	4,62	4 347	3,62	3 412	7 759
33	CZ000446616931	ZD Pluhův Žďár	NIC-015	10	<b>108 644</b>	3,80	3 763	3,52	3 481	7 244
34	CZ000519210961	PROAGRO Radešinská Svratka, a.s.	ZEL-117	10	<b>108 492</b>	3,81	4 106	3,35	3 611	7 717
35	CZ000409381961	ZD Nižkov	BA-101	12	<b>108 214</b>	3,20	3 196	3,14	3 140	6 336
36	CZ000292003921	ZS Nalžovice, a.s.	MOR-119	11	<b>107 735</b>	3,81	3 733	3,40	3 328	7 061
37	CZ000508480961	Bobrovská, a.s.	ZEL-117	9	<b>107 406</b>	4,00	3 655	3,33	3 040	6 695
38	CZ000263604953	Kratochvílová Zdeňka	UF-119	9	<b>107 369</b>	3,82	3 365	3,49	3 070	6 435
39	CZ000255782953	I. AGRO Oldřiš a.s.	BJ-181	10	<b>107 301</b>	3,86	3 420	3,50	3 100	6 520
40	CZ000238963971	HD Určice, družstvo	BD-085	10	<b>107 025</b>	3,57	3 308	3,50	3 242	6 550
41	CZ000561754961	Zemědělská akciová společnost Lípa	AMT-048	8	<b>105 811</b>	3,87	3 476	3,57	3 207	6 683
42	CZ000363151921	AGRO DRUŽSTVO Načeradec	RAD-253	9	<b>105 331</b>	3,88	3 846	3,49	3 459	7 305
43	CZ000200660952	Mejsnar Jiří	HG-304	11	<b>104 965</b>	3,67	3 339	3,35	3 049	6 388
44	CZ000222377952	ZEA Rychnovsko a.s.	MKM-255	10	<b>104 489</b>	3,78	3 596	3,27	3 107	6 703
45	CZ000315204932	ZAS Koloveč	NIC-015	10	<b>103 832</b>	4,09	3 926	3,49	3 347	7 273
46	CZ000227440952	Agrodružstvo Lhota pod Libčany	AMT-019	10	<b>103 735</b>	3,96	3 770	3,45	3 290	7 060
47	CZ000304497953	Zemědělská a.s. Horní Bradlo	NIC-015	10	<b>103 712</b>	3,30	3 128	3,36	3 183	6 311
48	CZ000243956952	ZD Podchlumí Dobrá Voda	RAD-277	10	<b>102 780</b>	3,76	3 699	3,71	3 652	7 351
49	CZ000347315961	Venc Zdeněk	HG-208	11	<b>102 735</b>	3,60	3 304	3,36	3 087	6 391
50	CZ000405601931	AGRO Nišovice s.r.o.	RAD-386	11	<b>102 669</b>	4,04	4 054	3,40	3 412	7 466

## 6. ARTIFICIAL INSEMINATION

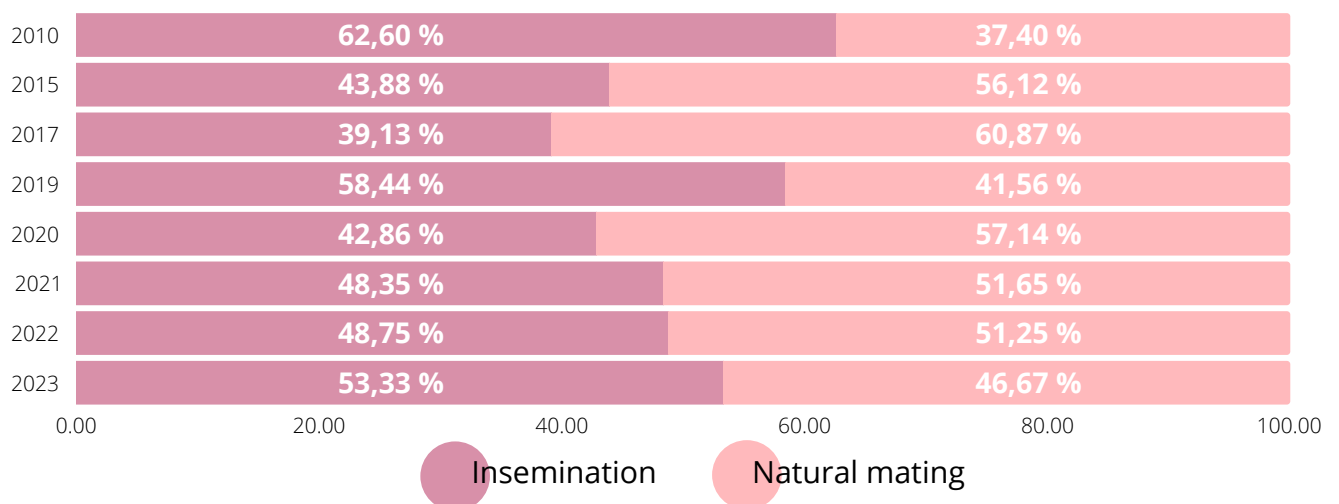
### 6.1. PROPORTION OF THE FIRST AND ALL INSEMINATIONS IN DIFFERENT BREEDS



### 6.2. THE PROPORTION OF INSEMINATIONS OF CZECH AND IMPORTED BULLS IN HERD BOOK



### 6.3. PROPORTION OF BULLS INCLUDED IN INSEMINATION AND NATURAL MATING



#### 6.4. BREEDING BULLS WITH THE HIGHEST NUMBER OF INSEMINATIONS (1.1.2024 - 30.9.2024)

Rank	Register	Name	Birth	Category	1st ins.	All ins.	GZW	MW	FW	Country
1	MOR-355	MAJO	2018	Proven	6 057	11 171	133	119	111	DE
2	HCH-157	HIBERNAL Pp*	2022	Genomic	2 940	5 490	134	118	116	CZ
3	RAD-572	VIRGINIA	2018	Proven	2 862	5 177	137	125	111	DE
4	HCH-132	HERZTAKT	2016	Proven	2 818	5 160	129	121	107	AT
5	HCH-039	PASCAL ET	2016	Proven	2 532	4 946	127	127	113	CZ
6	HCH-131	HOPFEN	2021	Genomic	2 688	4 915	145	118	125	DE
7	BD-123	SENEGAL	2021	Genomic	2 601	4 790	138	127	110	DE
8	MOR-350	MOSER ET P*S	2021	Genomic	2 003	3 714	133	119	106	DE
9	ZEL-153	ZELDA	2021	Genomic	1 539	3 235	137	124	116	AT
10	HCH-158	HOOK	2022	Genomic	1 732	2 972	136	124	107	CZ
11	HCH-143	HRDOBEC	2021	Genomic	1 598	2 969	138	129	111	CZ
12	MOR-328	NA MASKOT	2021	Genomic	1 694	2 845	131	123	108	CZ
13	HCH-141	HUML	2021	Genomic	1 509	2 838	134	120	116	AT
14	HCH-173	HIRTSTEIN	2022	Genomic	1 638	2 832	143	133	110	CZ
15	HG-562	GS WUHUDLER	2018	Proven	1 374	2 798	134	126	94	AT
16	HCH-128	HAN SOLO	2021	Genomic	1 488	2 721	134	123	112	DE
17	HCH-139	HROM	2021	Genomic	1 484	2 711	145	131	122	CZ
18	HG-557	KH WARMELIN	2022	Genomic	1 421	2 681	131	127	108	CZ
19	BA-134	GS DER BESTE	2016	Proven	1 353	2 567	115	117	100	AT
20	HCH-130	HILLER	2021	Genomic	1 288	2 525	143	131	119	DE
21	MOR-353	MAJSTER	2021	Genomic	1 327	2 445	134	125	112	CZ
22	HG-509	TIGER	2019	Genomic	1 141	2 417	110	113	103	CZ
23	MOR-354	MOHER P*S	2022	Genomic	1 220	2 365	129	129	96	CZ
24	MOR-362	MEINGOLD PP*	2022	Genomic	1 101	2 172	123	111	104	AT
25	HEL-133	NEUTRINO	2017	Proven	1 051	2 128	ISU = 155			FR
26	MOR-324	MONEY PP*	2020	Genomic	1 078	2 091	124	121	107	AT
27	RAD-616	VIKTORIN	2021	Genomic	1 260	2 042	131	119	115	CZ
28	MOR-351	MABUSO	2018	Proven	1 155	1 964	129	123	99	AT
29	MOR-370	MIRA Pp*	2023	Genomic	1 111	1 945	135	126	110	CZ
30	RAD-613	ICE Pp*	2021	Genomic	1 052	1 847	126	128	101	CZ
31	MOR-331	BRE MCMAZLIK	2021	Genomic	874	1 819	131	121	105	CZ
32	MOR-357	MONORON	2022	Genomic	996	1 769	143	125	108	AT
33	MOR-348	MAHOMES P*S	2021	Genomic	1 044	1 750	132	122	93	DE
34	ZEL-136	GS ZERO ONE ET	2016	Proven	901	1 640	134	121	116	DE
35	EG-086	EISENHERZ ET P*S	2022	Genomic	912	1 632	138	119	114	DE

15 bulls out of 35 \*

42 326 inseminations

∅ GZW 132,1

CZ

10 bulls out of 35 \*

40 035 inseminations

∅ GZW 136,7

DE

9 bulls out of 35 \*

24 594 inseminations

∅ GZW 129,8

AT

\*out of 35 most used bulls (in the period 1.1.2024 - 30.9.2024)





DE

MOR-355  
MAJO



CZ

HCH-157  
HIBERNAL Pp\*



RAD-572  
VIRGINIA

DE



AT

HCH-132  
HERZTAKT



CZ

HCH-039  
PASCAL ET

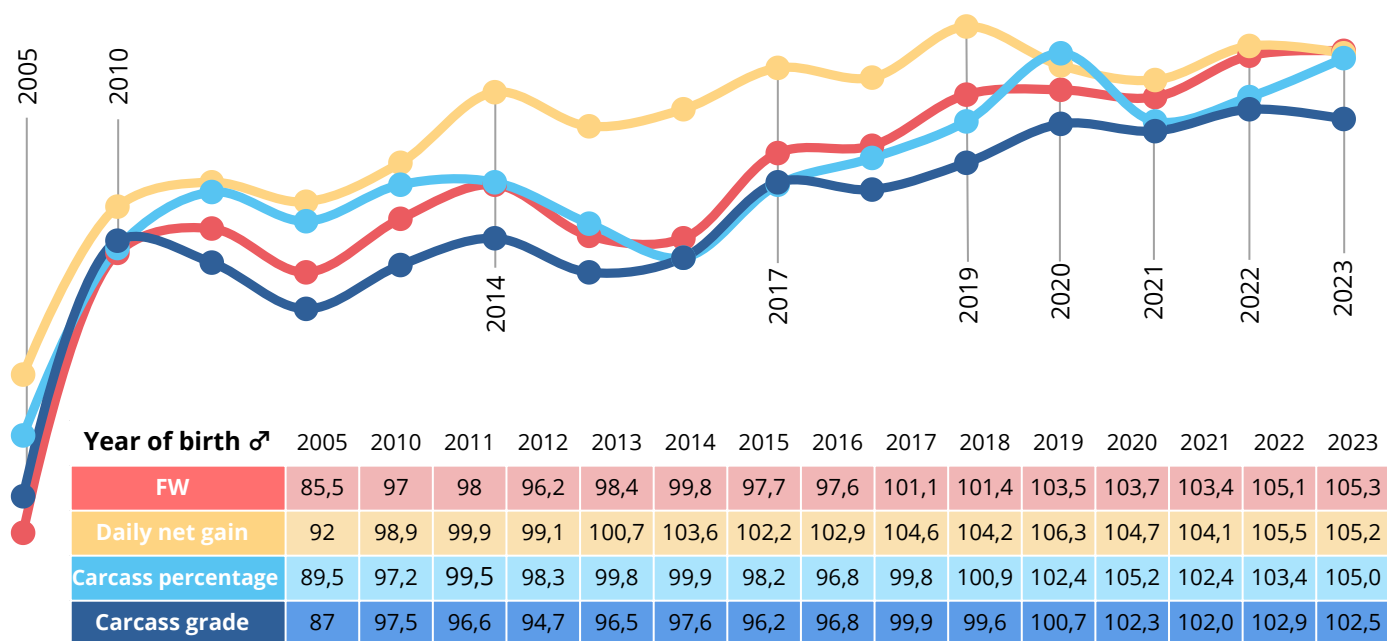


DE

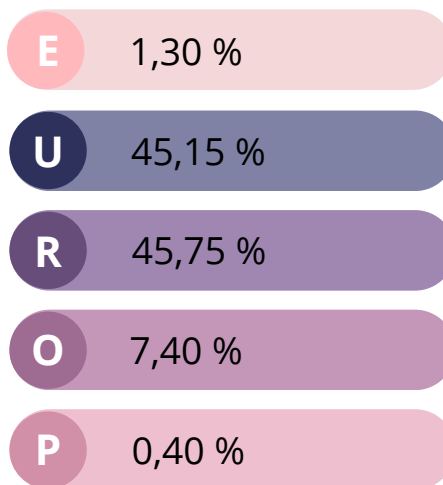
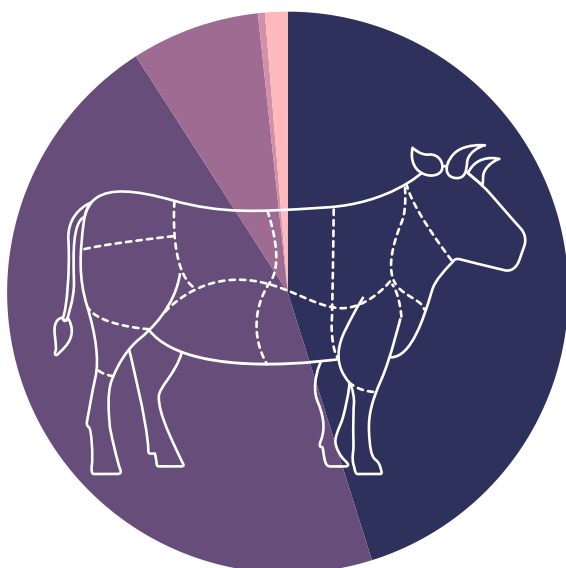
HCH-131  
HOPFEN

## 7. BEEF PRODUCTION

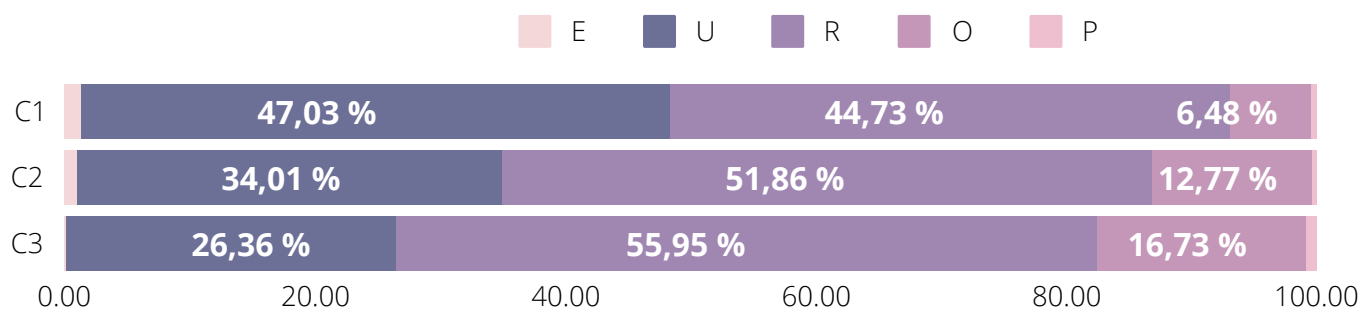
### 7.1. GENETIC TREND OF BEEF PRODUCTION OF YOUNG BULLS



### 7.2. EUROP CLASSIFICATION - CLASSIFICATION OF FLECKVIEH BULLS IN 2024



### 7.3. EUROP CLASSIFICATION - CLASSIFICATION OF FLECKVIEH BULLS ACCORDING TO HERD BOOK SECTION



	E	P
<b>C1</b>	1,39	0,37
<b>C2</b>	1,02	0,34
<b>C3</b>	0,18	0,78



## 8. PROJECT CATTLE GENOM

### 8.1. STATISTICS FOR THE 4TH YEAR OF THE PROJECT

**4.**  
YEAR



**44 224 cows**

WITH THE GENOTYPE WITHIN THE CATTLE GENOME PROJECT



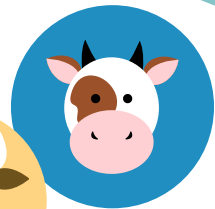
**66 breeders**

INVOLVED IN THE CATTLE GENOME PROJECT AT THE 4TH YEAR OF THE PROJECT



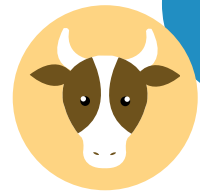
**57 787**

CZECH FLECKVIEHS WITH OWN GENOTYPE



**51 756 cows**

WITH GENOTYPE



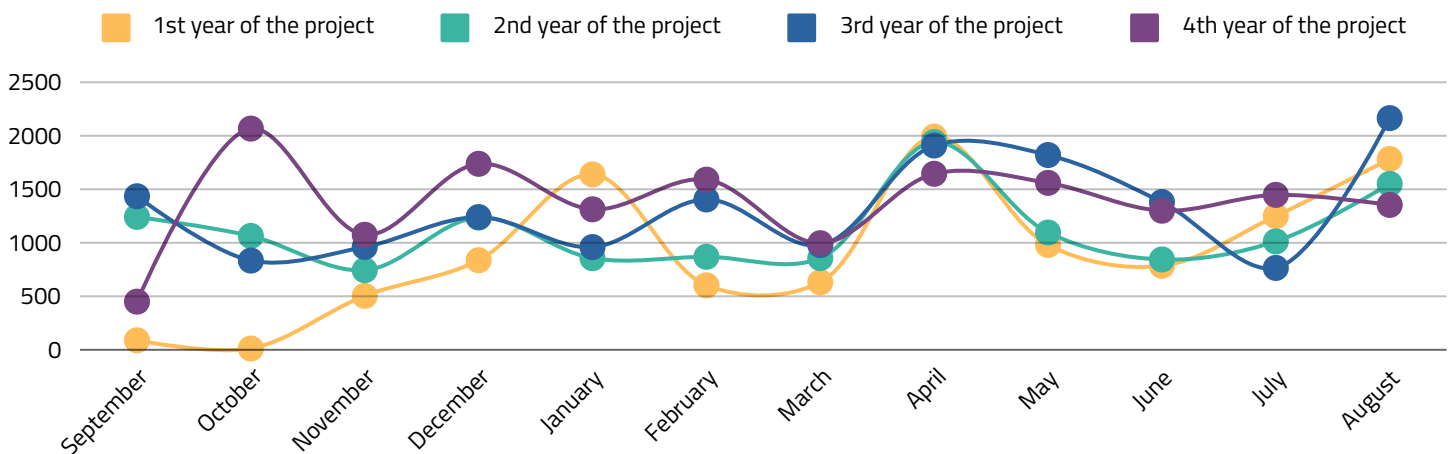
**6 030 bulls**

WITH GENOTYPE



# CATTLE GENOM

### 8.2. YEAR-ON-YEAR COMPARISON OF THE NUMBER OF RECEIVED SAMPLES



**̄ 925,5** received samples monthly

**1st year**

**̄ 1109,3** received samples monthly

**2nd year**

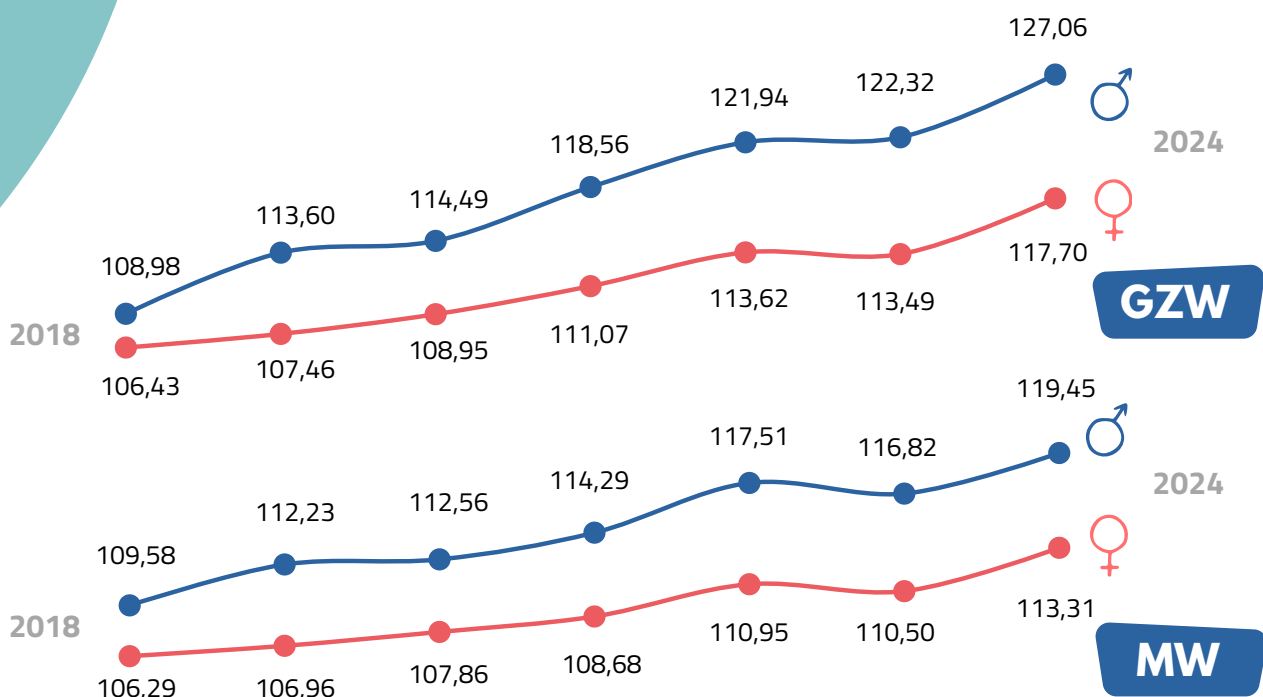
**̄ 1321,1** received samples monthly

**3rd year**

**̄ 1378,0** received samples monthly

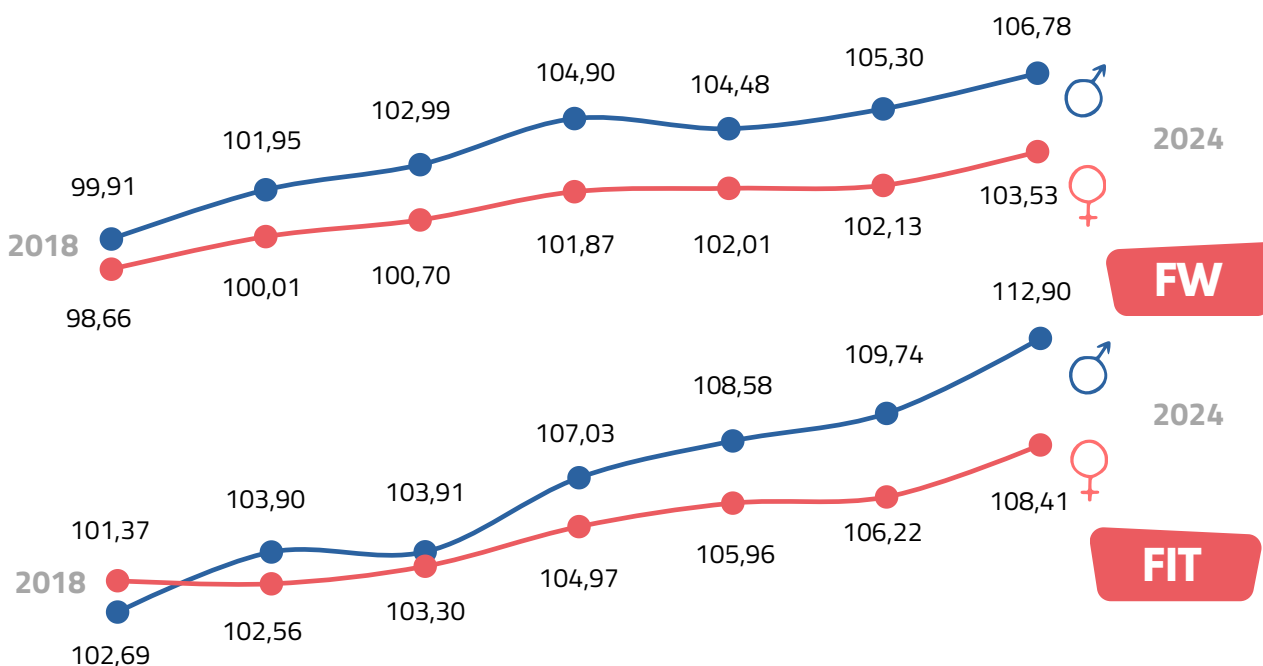
**4th year**

### 8.3. AVERAGES OF MAIN GENOMIC TRAITS OF GENOTYPED ANIMALS BY YEAR OF BIRTH



Year of birth	♂ Bulls					♀ Cows				
	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
2018	462	108,98	109,58	99,91	101,37	2 753	106,43	106,29	98,66	102,69
2019	493	113,60	112,23	101,95	103,90	4 228	107,46	106,96	100,01	102,56
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*	441	127,06	119,45	106,78	112,90	7 461	117,70	113,31	103,53	108,41
<b>Total</b>	<b>4 334</b>	<b>118,59</b>	<b>114,89</b>	<b>103,96</b>	<b>107,02</b>	<b>55 027</b>	<b>112,38</b>	<b>109,90</b>	<b>101,76</b>	<b>105,48</b>

\*year 2024 - the period 1.1.2024 - 28.6.2024



## 8.4. TOP BULLS ACCORDING TO GZW OF GENOTYPED OFFSPRING BORN IN 2023

\*only bulls with more than 50 genotyped progeny born in the period 1.1.2023-31.12.2023 are included in the summaries in Tables 8.4, 8.5. and 8.6.

	Name	Register	Prov.	Bulls				Heifers				Total			
				n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW
1	HIGHNESS ET	HCH-123		28	129,43	123,00	110,11	50	126,72	119,86	108,44	78	<b>127,69</b>	120,99	109,04
2	ZELDA	ZEL-153		15	128,67	121,80	108,33	50	125,92	118,36	108,58	65	<b>126,55</b>	119,15	108,52
3	WIRBELWIND P*S	HG-531		20	127,55	117,75	104,95	121	124,47	114,25	104,96	141	<b>124,91</b>	114,74	104,96
4	HASHTAG ET	HCH-093	P	7	131,43	120,86	115,43	63	123,98	117,05	112,12	70	<b>124,75</b>	117,43	112,48
5	GS WUNDAWUZI	HG-526		14	131,07	118,21	109,14	92	122,76	113,25	105,92	106	<b>123,87</b>	113,91	106,36
6	GS SPUTNIK	BD-116		47	127,81	116,87	108,09	201	122,52	113,60	107,87	248	<b>123,53</b>	114,23	107,91
7	GS WUNDERINO	HG-515	P	9	129,89	117,67	110,44	47	121,23	112,26	107,37	56	<b>122,63</b>	113,13	107,87
8	SENATOR	BD-115		31	125,48	117,19	106,87	168	121,45	114,38	104,05	199	<b>122,10</b>	114,83	104,50
9	VEYRON	RAD-610		13	126,08	121,38	107,31	124	121,55	117,43	105,95	137	<b>121,99</b>	117,81	106,08
10	HAN SOLO	HCH-128		29	127,45	119,62	106,66	97	119,81	115,33	106,00	126	<b>121,61</b>	116,34	106,15
11	SPIRITUS	BD-117		1	126,00	117,00	106,00	54	120,70	112,52	102,85	55	<b>120,80</b>	112,60	102,91
12	HEMI Pp*	HCH-127		27	125,44	122,41	104,33	218	119,98	116,95	103,21	245	<b>120,59</b>	117,56	103,34
13	GS ZERO ONE ET	ZEL-136	P	14	121,14	118,57	111,71	47	119,04	113,98	108,62	61	<b>119,52</b>	115,03	109,33
14	GS DELUXE	BA-137		38	122,92	118,79	108,84	257	118,96	115,09	107,88	295	<b>119,48</b>	115,58	108,01
15	GS HOERI	HCH-110	P	24	124,04	120,29	100,58	576	119,16	115,43	101,45	600	<b>119,36</b>	115,63	101,41
16	WINTERTRAUM	HG-507	P	21	125,62	114,95	104,57	215	118,58	108,81	102,90	236	<b>119,23</b>	109,36	103,06
17	HABANERO	HCH-122		8	120,63	119,88	102,63	294	118,95	117,40	104,59	302	<b>119,00</b>	117,46	104,54
18	EPIK ET	EG-075		4	118,50	114,00	101,50	56	118,96	112,76	105,80	60	<b>118,93</b>	112,85	105,51
19	WANNABE	HG-536		16	122,88	114,63	106,25	88	118,08	111,51	105,02	104	<b>118,82</b>	111,99	105,21
20	WULAN ET	HG-532		13	124,77	117,62	104,77	133	117,94	111,57	103,34	146	<b>118,56</b>	112,12	103,47
21	GS WINTEN	HG-530		4	127,75	119,25	99,50	95	118,09	111,36	101,46	99	<b>118,54</b>	111,73	101,35
22	MISTR ET Pp*	MOR-329		6	125,67	127,33	106,50	144	118,23	118,28	102,18	150	<b>118,53</b>	118,65	102,35
23	HOKUSPOKUS ET	HCH-107	P	26	124,65	117,04	105,27	514	118,14	111,58	105,13	540	<b>118,46</b>	111,84	105,14
24	GS WHITESTAR	HG-518		17	123,81	120,38	100,88	204	117,96	115,21	100,60	221	<b>118,41</b>	115,60	100,62
25	VIRGINIA	RAD-572	P	2	125,50	130,00	100,50	51	118,06	115,39	104,29	53	<b>118,34</b>	115,94	104,15
26	WARLOCK ET	HG-503	P	11	124,36	118,91	102,73	673	118,06	113,75	101,88	684	<b>118,16</b>	113,83	101,89
27	ZENEKA ET	ZEL-145		4	122,25	117,00	106,75	50	117,71	113,08	108,06	54	<b>118,06</b>	113,38	107,96
28	SUPERBOY	BD-114		22	118,36	112,27	106,50	159	117,65	111,22	104,96	181	<b>117,74</b>	111,35	105,15
29	MAVERIK Pp*	MOR-345		3	120,33	117,33	104,33	55	117,22	110,44	106,13	58	<b>117,39</b>	110,81	106,04
30	GS HERZTAKT	HCH-132	P	1	136,00	129,00	102,00	52	117,00	113,46	103,73	53	<b>117,36</b>	113,75	103,70



20 DE HCH-123  
HIGHNESS ET



AT ZEL-153  
ZELDA



AT HG-531  
WIRBELWIND P\*S

## 8.5. TOP BULLS ACCORDING TO MW OF GENOTYPED OFFSPRING BORN IN 2023

	Name	Register	Prov.	Bulls			Heifers			Total					
				n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW
1	HIGHNESS ET	HCH-123		28	129,43	123,00	110,11	50	126,72	119,86	108,44	78	127,69	<b>120,99</b>	109,04
2	ZELDA	ZEL-153		15	128,67	121,80	108,33	50	125,92	118,36	108,58	65	126,55	<b>119,15</b>	108,52
3	MISTR ET Pp*	MOR-329		6	125,67	127,33	106,50	144	118,23	118,28	102,18	150	118,53	<b>118,65</b>	102,35
4	VEYRON	RAD-610		13	126,08	121,38	107,31	124	121,55	117,43	105,95	137	121,99	<b>117,81</b>	106,08
5	HEMI Pp*	HCH-127		27	125,44	122,41	104,33	218	119,98	116,95	103,21	245	120,59	<b>117,56</b>	103,34
6	HABANERO	HCH-122		8	120,63	119,88	102,63	294	118,95	117,40	104,59	302	119,00	<b>117,46</b>	104,54
7	HASHTAG ET	HCH-093	P	7	131,43	120,86	115,43	63	123,98	117,05	112,12	70	124,75	<b>117,43</b>	112,48
8	HAN SOLO	HCH-128		29	127,45	119,62	106,66	97	119,81	115,33	106,00	126	121,61	<b>116,34</b>	106,15
9	VIRGINIA	RAD-572	P	2	125,50	130,00	100,50	51	118,06	115,39	104,29	53	118,34	<b>115,94</b>	104,15
10	GS HOERI	HCH-110	P	24	124,04	120,29	100,58	576	119,16	115,43	101,45	600	119,36	<b>115,63</b>	101,41



DE HCH-123  
HIGHNESS ET



AT ZEL-153  
ZELDA



CZ MOR-329  
MISTR ET Pp\*

## 8.6. TOP BULLS ACCORDING TO FW OF GENOTYPED OFFSPRING BORN IN 2023

	Name	Register	Prov.	Bulls			Heifers			Total					
				n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW	n	$\bar{x}$ GZW	$\bar{x}$ MW	$\bar{x}$ FW
1	HASHTAG ET	HCH-093	P	7	131,43	120,86	115,43	63	123,98	117,05	112,12	70	124,75	117,43	<b>112,48</b>
2	RAMON	EG-051	P					102	115,21	113,25	111,91	102	115,21	113,25	<b>111,91</b>
3	VOJTA Pp*	RAD-605						51	111,00	106,33	111,31	51	111,00	106,33	<b>111,31</b>
4	MERCURY	MOR-316	P	3	119,67	114,00	114,67	51	113,37	107,84	109,08	54	113,72	108,19	<b>109,39</b>
5	GS ZERO ONE ET	ZEL-136	P	14	121,14	118,57	111,71	47	119,04	113,98	108,62	61	119,52	115,03	<b>109,33</b>
6	HIGHNESS ET	HCH-123		28	129,43	123,00	110,11	50	126,72	119,86	108,44	78	127,69	120,99	<b>109,04</b>
7	ZELDA	ZEL-153		15	128,67	121,80	108,33	50	125,92	118,36	108,58	65	126,55	119,15	<b>108,52</b>
8	ROSE Pp*	BCH-150		2	126,50	116,00	109,50	75	114,51	108,95	108,38	77	114,83	109,13	<b>108,41</b>
9	IZZY Pp*	RAD-608						51	116,78	114,74	108,12	51	116,78	114,74	<b>108,12</b>
10	GS DELUXE	BA-137		38	122,92	118,79	108,84	257	118,96	115,09	107,88	295	119,48	115,58	<b>108,01</b>



DE HCH-093  
HASHTAG ET

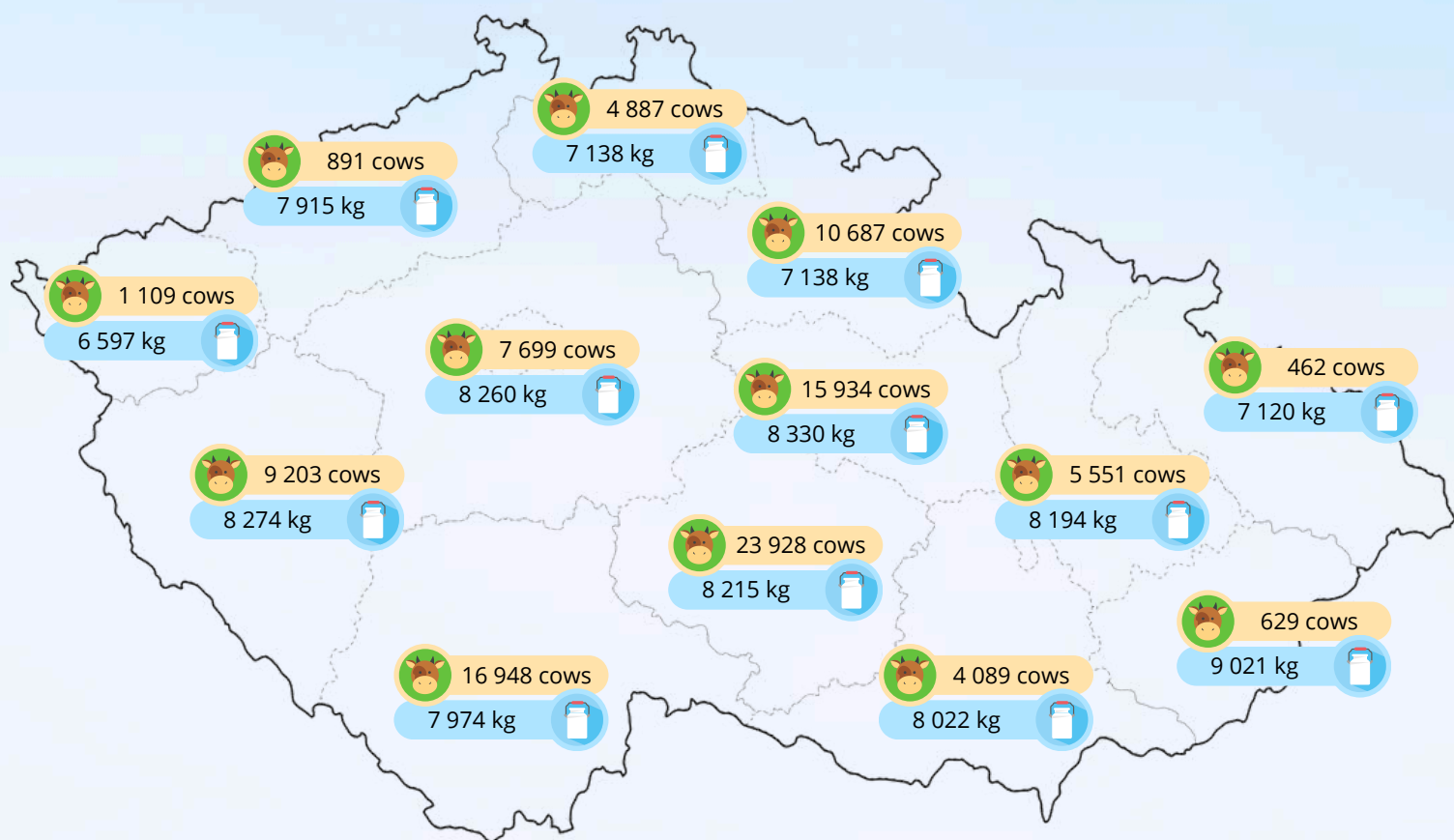


CZ EG-051  
RAMON



CZ RAD-605  
VOJTA Pp\*

## 8. OVERVIEW OF THE AVERAGE MILK YIELD AND THE NUMBER OF COMPLETED LACTATIONS IN REGIONS OF THE CZECH REPUBLIC (2023/2024)



Number of completed lactations of Fleckvieh cows registered in the herd book in milk recording

Average milk yield



Region	Breeders	Stables	Cows	Lactations	Average milk yield
Jihočeský kraj	96	115	20 258	16 948	7 974
Jihomoravský kraj	19	25	4 664	4 089	8 022
Karlovarský kraj	5	5	1 302	1 109	6 597
Kraj Vysočina	111	127	27 374	23 928	8 215
Královéhradecký kraj	51	59	12 153	10 687	8 045
Liberecký kraj	22	31	5 486	4 887	7 138
Moravskoslezský kraj	6	6	551	462	7 120
Olomoucký kraj	21	22	6 260	5 551	8 194
Pardubický kraj	61	68	17 817	15 934	8 330
Plzeňský kraj	41	48	10 308	9 203	8 274
Středočeský kraj	35	43	8 712	7 699	8 260
Ústecký kraj	8	10	1 023	891	7 915
Zlínský kraj	6	6	681	629	9 021