



Annual

HOLSTEIN CATTLE BREEDERS ASSOCIATION OF THE CZECH REPUBLIC

report

2022





AGRAS JALAPENO - National Champion



RADIM PETRA - Reserve Champion



ZOS CAMILLA - Best first lactation cow



KRA-HO WARRIOR KOBA 13 - Best heifer

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1. Introduction

Dear readers,

The Annual Report is a comprehensive source of basic information about the status and efficiency of the Czech Holstein population, best herds and animals. It has been issued as a separate publication for 20 years. In this form you can also obtain results concerning the last test (recording year) year. In case of interest you can ask for these results on the address: office@holstein.cz.

Basic information on milk recording results including the outcome of the Association's competition is part of the information available at the Holstein Cattle Breeders Association of the Czech Republic. The latest data are regularly published on the website of the Association (www.holstein.cz). Other important information can be obtained on the website of cooperating companies the Czech-Moravian Breeders Corporation (www.cmsch.cz) and Plemdat, Ltd. (www.plemdat.cz)

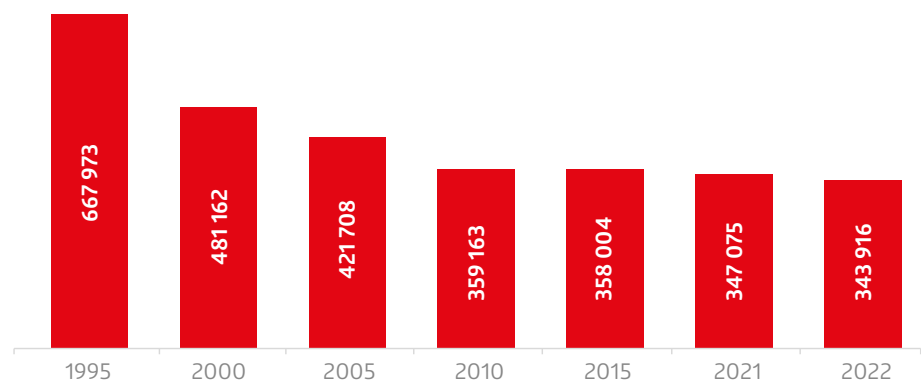
2. Development of the number of milk recorded cows and their breed structure

Year	Rec. cows	Index	
		to prev. year	to 1995
1995	667 973		
2000	481 162	95,9	72,0
2005	421 708	98,9	63,1
2010	359 163	96,2	53,8
2015	358 004	100,3	53,6
2021	347 075	100,0	52,0
2022	343 916	99,1	51,5

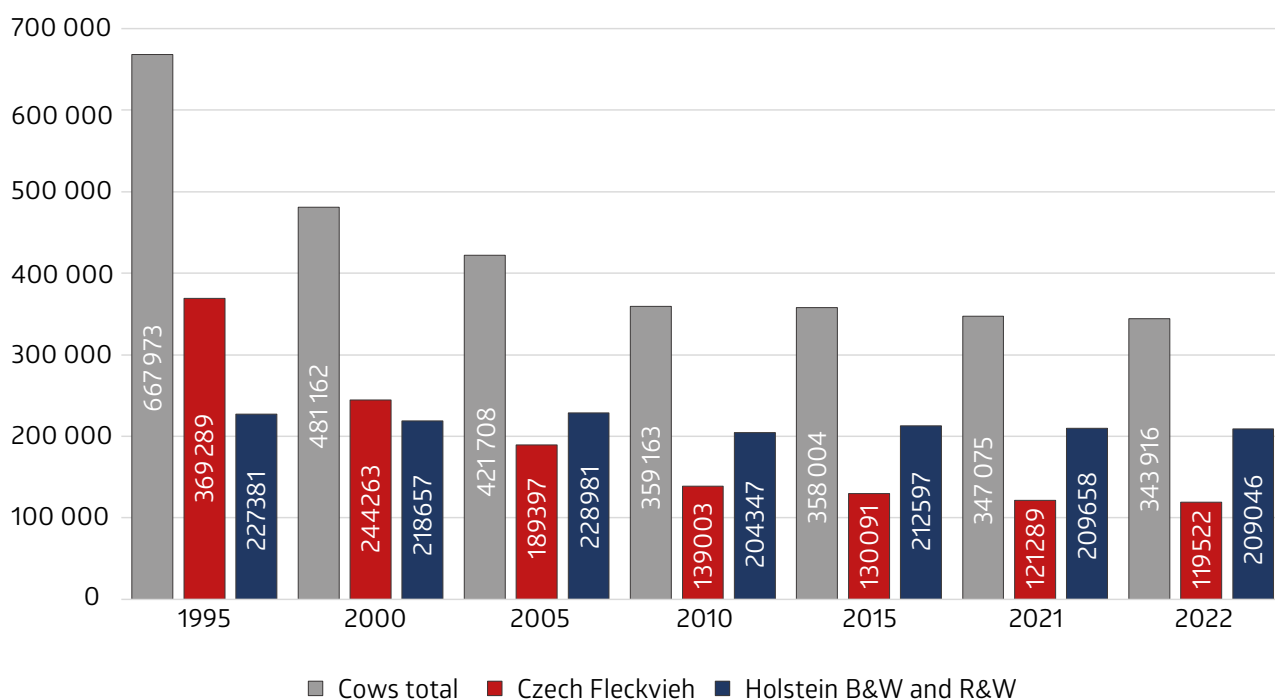
NUMBER OF MILK RECORDED COWS

60,8 % Holstein cows

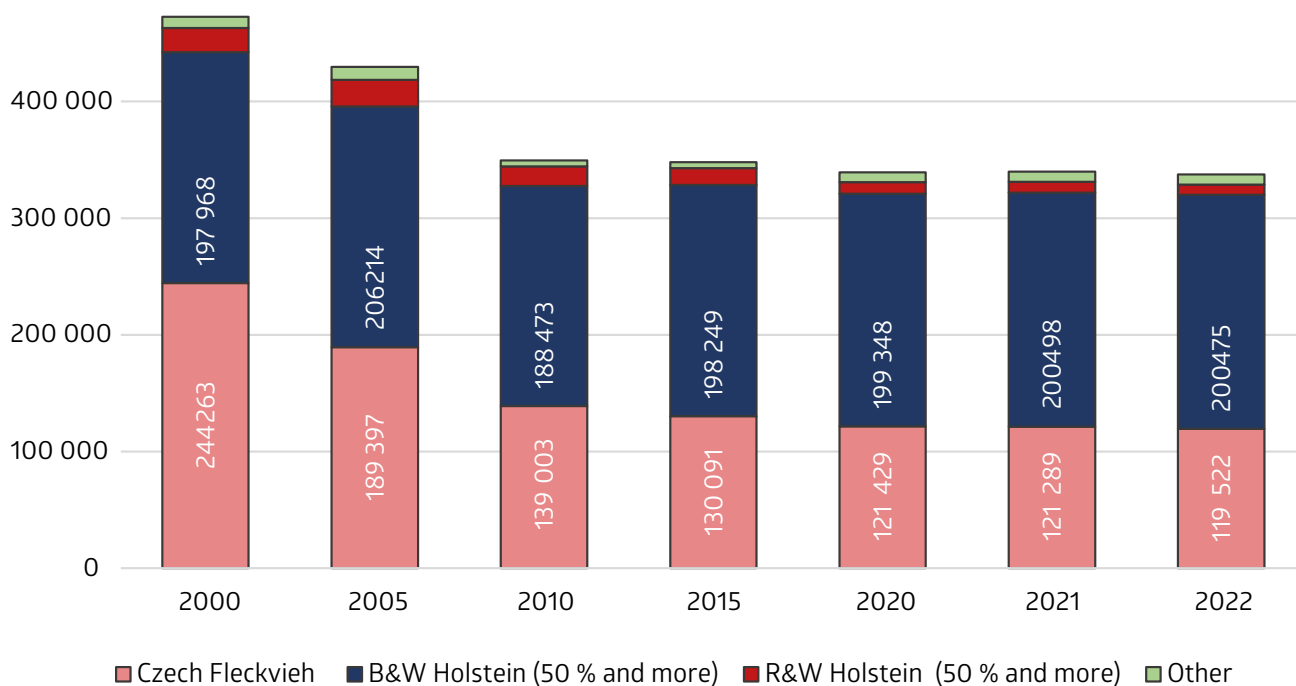
177 219 finished lactations of Holstein breed



2.1 Breed structure development in milk recorded cows since 1995

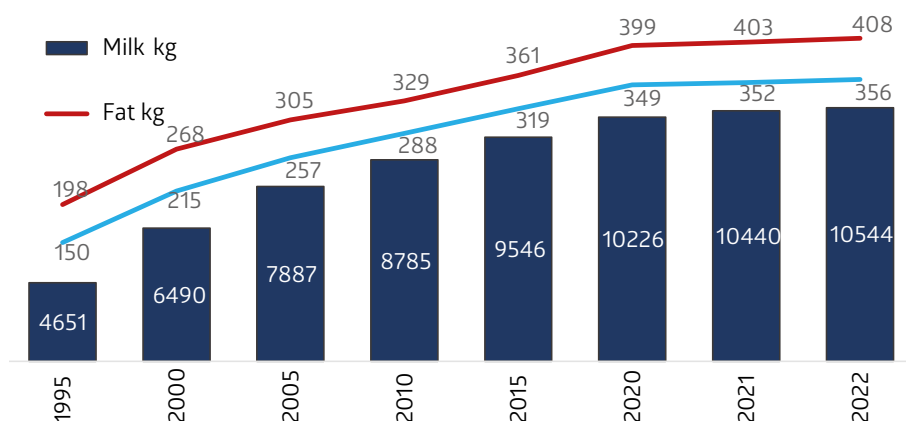


2.2 Breed structure development in milk recorded cows

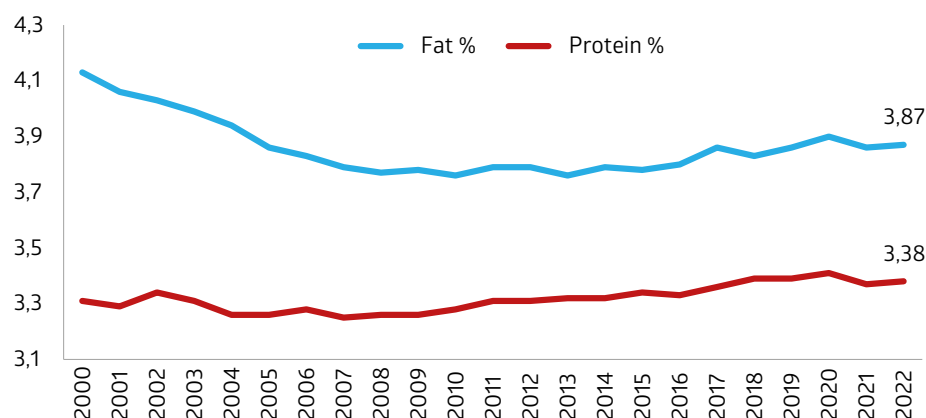




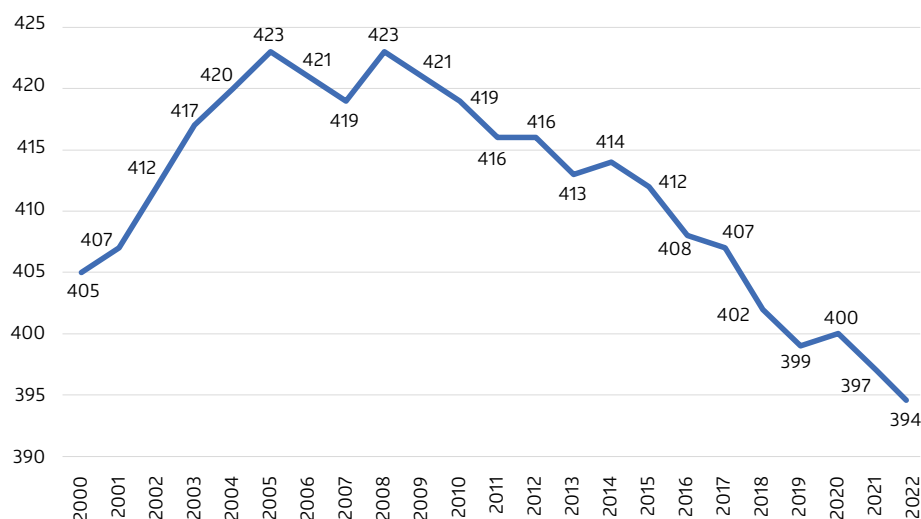
3. Production development of milk recorded holstein cows in the year 2021/2022



3.1 Milk fat and protein content of milk recorded cows



3.2 Intercalving interval of milk recorded holstein cows



MILK 2021/2022

10 544 kg average milk production

3,87 % average milk fat

408 kg average fat production

3,38 % average milk protein

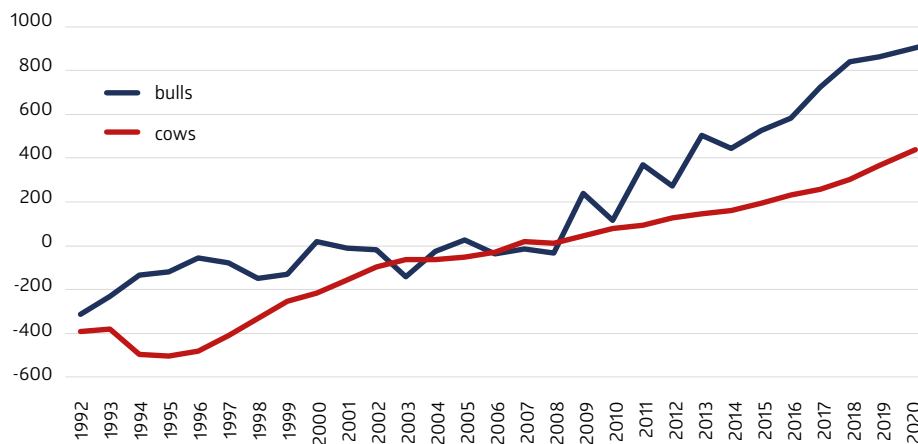
356 kg average protein production

394 intercalving interval

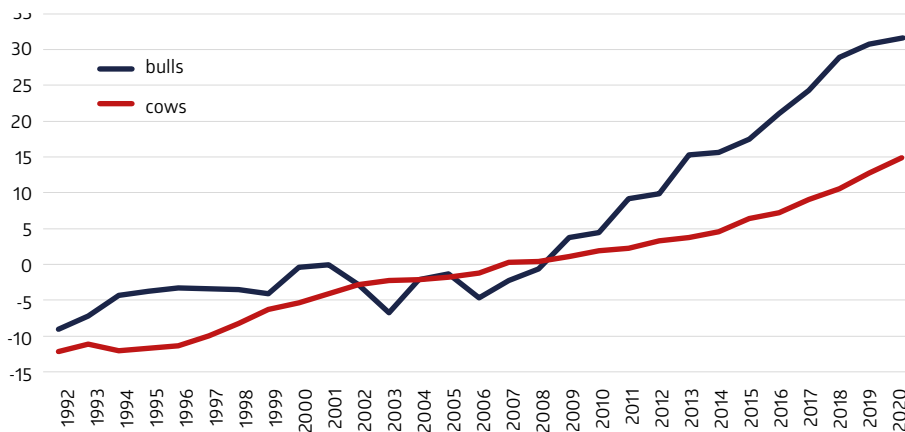
31 129 kg average lifetime milk yield

3.3 Means of Breeding Values of holstein cows and bulls according to the year of birth

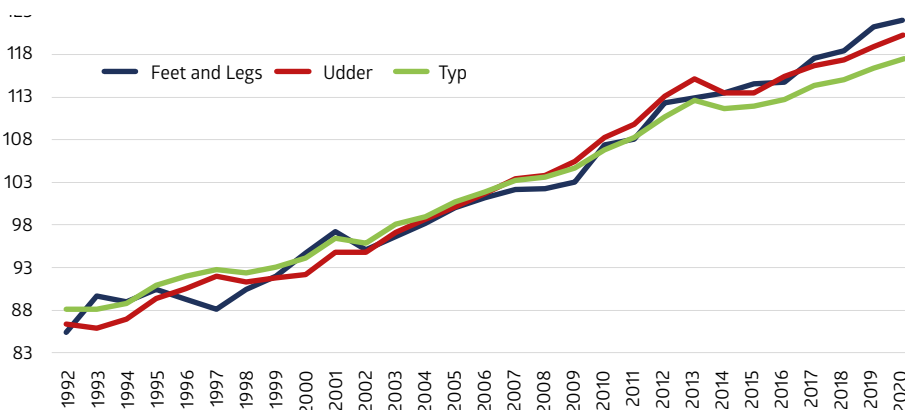
Means of Breeding Values (BV) of milk **kg M**



Means of Breeding Values (BV) of **kg Protein**



Conformation Breeding Values (BV)



4. Best herds and cows according to the fat and protein production per lactations completed in the test year 2021/2022

4.1 Best herds in milk production in the test year 2021/2022

Rank	Breeder	Farm	Records	M kg	F %	F kg	P %	P kg	F+P kg
1	ZS OSTRETIN A.S.	OSTRETIN-NK	616	13 625	3,79	516	3,46	471	987
2	VYJIDACEK RADOMIR	VYSEHORKY 5	28	13 886	3,81	529	3,27	454	983
3	KOPECKY PAVEL	JIRETICE	94	12 869	3,99	514	3,43	442	956
4	AGROPODNIK KOSETICE	CHYSNA II	376	12 389	4,30	532	3,37	417	949
5	LUKA, A.S.	VYS.STUDNICE VKK	723	13 228	3,77	499	3,35	443	942
6	AG SKORENICE A.S.	UJEZD	497	12 196	4,29	523	3,40	414	937
7	HOLUB MARTIN	MYSTICE	32	13 881	3,33	463	3,38	470	933
8	ZEAS PUCLICE A.S.	BUKOVEC	798	13 034	3,81	497	3,34	435	932
9	ROLNICKA A.S.KRALIKY	PETROVICE	565	12 702	3,90	496	3,32	422	918
10	AGRAS BOHDALOV, A.S.	BOHDALOV VKK	794	12 930	3,70	479	3,36	435	914
11	ZD SLOUPNICE	DOLNI SLOUPNICE MF	546	12 576	3,97	499	3,29	414	913
12	AGRODRUZST.SEBRANICE	POHORA VKK	301	12 676	3,73	473	3,38	429	902
13	UNESOVSKY STATEK AS.	PERNAREC	401	12 741	3,65	465	3,39	432	897
14	ZD RUZOVY PALOUCZEK	UJEZDEC	525	12 498	3,77	471	3,41	426	897
15	AGRODAM HOREPNIK SRO	HOREPNIK	340	12 862	3,75	482	3,21	413	895
16	ROZVODI CERNOV S.R.O	CERNOV VKK	454	12 073	4,02	485	3,39	410	895
17	ZEM,A.S. NOVY BYDZOV	NEPOLISY MF	447	12 695	3,64	462	3,39	431	893
18	ZS KOSOVA HORA A.S.	JANOV	473	12 349	3,78	467	3,44	424	891
19	NETIS, A.S.	JABLUNKOV VKK	634	12 499	3,90	487	3,23	404	891
20	ZD SLOUPNICE	RETOVA	324	12 678	3,69	467	3,33	423	890

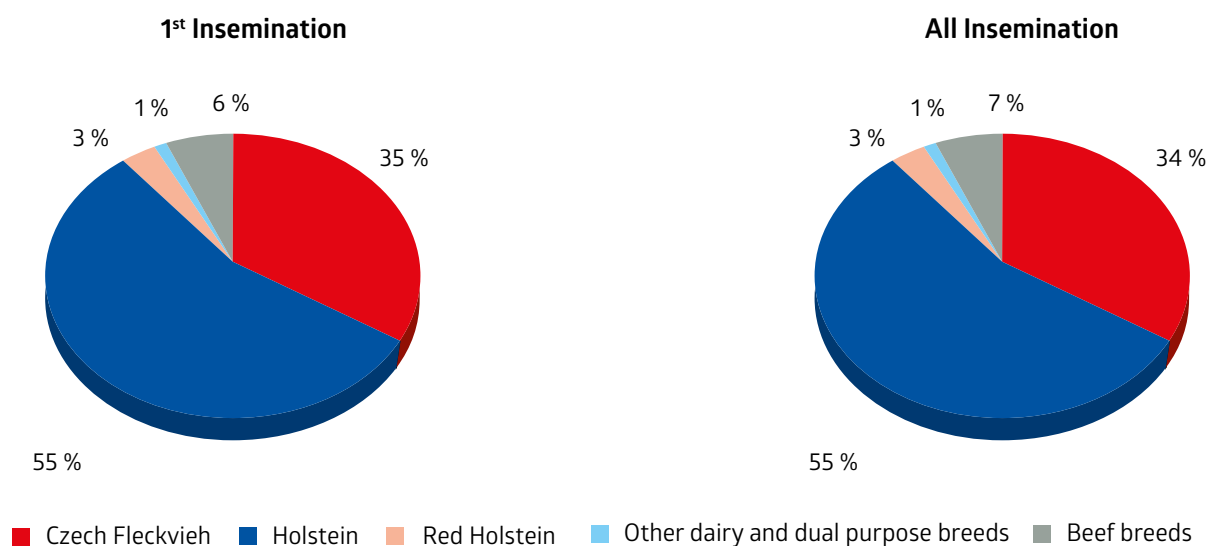
4.2 Breeding cows with the highest production per standardized lactation completed in the test year 2021/2022

Rank	Cow	Breeder	Sire	Lac	LD	M kg	F %	F kg	P %	P kg	F+P kg
1	CZ000250397962	ZD JIRICE U MIROSLAVI	CAYMAN	4	337	17 311	5,77	998	3,41	591	1589
2	CZ000324931953	ZS OSTRETIN A.S.	MARDI GRAS	3	611	18 898	4,11	777	3,54	669	1446
3	CZ000250249962	ZEM.DRUZSTVO PETRIN	VITESSE	4	301	17 024	4,82	820	3,65	622	1442
4	CZ000373813953	ZS OSTRETIN A.S.	KASCOL	3	358	17 672	4,35	769	3,77	666	1435
5	CZ000762475961	AGRAS BOHDALOV, A.S.	VANCOUVER	2	353	22 723	3,11	707	3,15	716	1423
6	CZ000485392921	AGRO JESENICE A.S.	TOPSY	3	369	19 191	3,93	754	3,39	650	1404
7	CZ000445084921	VOD ZDISLAVICE	SLAVISTA	3	375	18 907	4,09	773	3,29	622	1395
8	CZ000410107921	AGRO JESENICE A.S.	LEVI	4	425	19 377	3,75	727	3,44	666	1393
9	CZ000647529961	ZEM.DRUZSTVO PETRIN	OMANOMAN	4	527	16 116	5,29	852	3,31	534	1386
10	CZ000467635921	VOD ZDISLAVICE	LANDON	2	359	18 918	4,05	766	3,26	616	1382
11	CZ000527549932	OD SOBESICE	PAMPA	3	342	17 984	4,33	779	3,34	600	1379
12	CZ000373812953	ZS OSTRETIN A.S.	PONACO	3	304	19 061	4,16	793	3,03	577	1370
13	CZ000402443953	ZS OSTRETIN A.S.	URIAS	2	478	16 968	4,30	730	3,72	632	1362
14	CZ000415714953	AGRODRUZST.SEBRANICE	SERAC	2	309	17 952	4,26	764	3,33	598	1362
15	CZ000495384932	ZEM.SPOL.KOMORNO A.S.	PLATINUM	4	298	19 135	3,91	749	3,18	609	1358
16	CZ000415612953	AGRODRUZST.SEBRANICE	ELDORADO	2	386	17 131	4,42	758	3,47	594	1352
17	CZ000610712961	ZEM.DRUZSTVO PETRIN	IMPRESSION	3	449	14 906	5,80	865	3,26	486	1351
18	CZ000501124921	I.ZAS CHORUSICE	ALTALAWSON	1	333	18 192	3,90	709	3,51	639	1348
19	CZ000659534961	AGRAS BOHDALOV, A.S.	RUBICON	4	395	19 179	3,81	731	3,21	616	1347
20	CZ000390316953	AGRODRUZST.SEBRANICE	E.T.SHOTTLE	3	322	17 891	3,97	710	3,55	636	1346
21	CZ000467036921	VOD ZDISLAVICE	ALTAEVERGLADE	3	360	17 067	4,38	748	3,50	598	1346
22	CZ000426634953	ZEM.DRUZSTVO PETRIN	BERTOLI	3	309	16 138	4,81	776	3,50	565	1341
23	CZ000301688962	ZD JIRICE U MIROSLAVI	AUDIBLE	1	355	14 548	5,73	833	3,48	506	1339
24	CZ000484795921	ZD KRASNA HORA A.S.	GREGARIOUS	2	603	19 627	3,50	686	3,30	648	1334
25	CZ000261580962	ZD JIRICE U MIROSLAVI	SKYFALL	3	392	14 132	5,90	834	3,54	500	1334
26	CZ000469539932	ZEM.SPOL.KOMORNO A.S.	MAYFLOWER	4	358	16 076	4,75	764	3,53	567	1331
27	CZ000373555953	ZS OSTRETIN A.S.	SUREBOY	4	336	17 190	4,22	725	3,52	605	1330
28	CZ000678107931	AGRODRUZSTVO ZAHORI	SUPERSIRE	4	333	18 334	3,71	681	3,52	646	1327

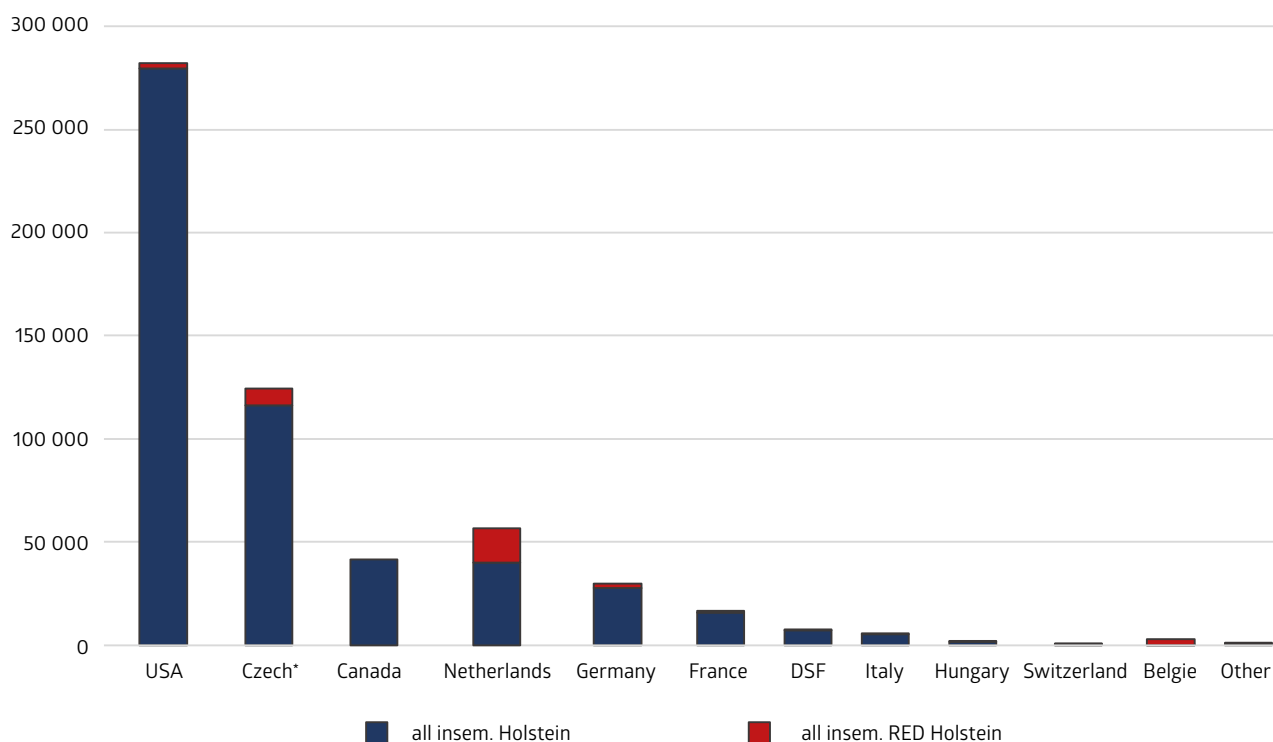
Rank	Cow	Breeder	Sire	Lac	LD	M kg	F %	F kg	P %	P kg	F+P kg
29	CZ000402245953	ZS OSTRETIN A.S.	GATEDANCER	3	387	17 028	4,17	710	3,62	616	1326
30	CZ000227461951	ZOD BRNISTE	GENICOOPER	3	329	18 407	3,98	732	3,23	594	1326
31	CZ000412933952	ZS KRATONOHY A.S.	MERLOT	1	365	17 638	4,12	726	3,40	599	1325
32	CZ000415734953	AGRODRUZST.SEBRANICE	ELDORADO	2	294	16 178	4,73	766	3,45	558	1324
33	CZ000402080953	ZS OSTRETIN A.S.	VH GRAFIT	4	322	16 849	4,08	688	3,76	633	1321
34	CZ000467209921	VOD ZDISLAVICE	WHATSAPP	3	318	17 101	4,19	716	3,54	605	1321
35	CZ000371866953	AG SKORENICE A.S.	EMERALD	4	357	17 362	4,19	728	3,42	593	1321
36	CZ000366790952	AGRO CHOMUTICE A.S.	SILVER	3	387	14 206	5,94	844	3,36	477	1321
37	CZ000407491921	ZEAS OSKORINEK, A.S.	MODESTO	4	305	18 978	3,53	670	3,41	648	1318
38	CZ000324976953	ZS OSTRETIN A.S.	ALCHEMIST	4	367	18 440	3,67	677	3,47	640	1317
39	CZ000687409961	AGROPODNIK KOSETICE	ABC	3	361	16 571	4,77	791	3,17	526	1317
40	CZ000415627921	VOD ZDISLAVICE	ALTAGREATEST	3	409	17 992	3,74	673	3,56	640	1313
41	CZ000283323962	ZD JIRICE U MIROSLAVI	CHEVROLET	2	320	16 644	4,80	799	3,08	513	1312
42	CZ000758614961	AGROPODNIK KOSETICE	SILVER	2	326	16 422	4,63	761	3,35	550	1311
43	CZ000680762931	HOLUB MARTIN	AJAX	2	440	16 043	4,44	713	3,70	594	1307
44	CZ000240857962	ZD JIRICE U MIROSLAVI	JEROEN	4	365	15 972	4,89	781	3,29	525	1306
45	CZ000762428961	AGRAS BOHDALOV, A.S.	VANCOUVER	2	351	18 474	3,76	694	3,30	610	1304
46	CZ000402323953	ZS OSTRETIN A.S.	MISSION	2	555	17 460	3,88	678	3,58	625	1303
47	CZ000425061953	AG SKORENICE A.S.	HOTSHOT	2	289	16 833	4,41	743	3,33	560	1303
48	CZ000467026921	VOD ZDISLAVICE	HABORO	3	389	17 697	3,92	693	3,44	609	1302
49	CZ000308458981	DRUZSTVO ZAGRA	LAMBERT	3	414	18 202	3,92	713	3,22	587	1300
50	CZ000534633932	UNESOVSKY STATEK A.S.	ALTAJANGO	3	326	16 947	4,20	712	3,45	585	1297
51	CZ000328866981	FRYDLANTSKA ZEM.A.S.	KINGDOM	3	436	16 381	4,76	779	3,16	517	1296
52	CZ000687283961	AGROPODNIK KOSETICE	MONTEREY	3	315	15 347	4,93	756	3,51	539	1295
53	CZ000324862953	ZS OSTRETIN A.S.	JACEY	5	455	18 596	3,60	670	3,36	624	1294
54	CZ000445258921	VOD ZDISLAVICE	MONROVIA	4	342	17 407	4,00	697	3,43	597	1294
55	CZ000373782953	ZS OSTRETIN A.S.	MAGUA	3	484	18 833	3,66	690	3,20	603	1293
56	CZ000458863921	ZS SLOVEC A.S.	HURION ISY	3	334	16 862	4,11	693	3,56	600	1293
57	CZ000341821981	DRUZSTVO ZAGRA	SOLERO	2	482	17 891	3,96	709	3,23	578	1287
58	CZ000364492952	AGRO BYSTRICE A.S.	DIESEL	2	353	15 219	4,97	756	3,48	530	1286
59	CZ000373713953	ZS OSTRETIN A.S.	SUPERSHOT	4	501	18 287	3,63	663	3,40	621	1284
60	CZ000415301953	AGRODRUZST.SEBRANICE	YUPPI	2	439	17 937	3,82	685	3,34	599	1284
61	CZ000390266953	AGRODRUZST.SEBRANICE	E.T.SHOTTLE	3	530	17 098	4,12	704	3,39	579	1283
62	CZ000425105953	AG SKORENICE A.S.	KARSTEN	3	350	16 421	4,57	750	3,23	531	1281
63	CZ000397418952	ROLNICKA A.S. KRALIKY	URANUS	2	317	20 442	3,15	643	3,12	637	1280
64	CZ000404568921	ZS SLOVEC A.S.	ROCKET	3	504	19 143	3,58	685	3,11	595	1280
65	CZ000749267961	LUKA, A.S.	MAYFLOWER	2	355	17 113	4,06	694	3,42	586	1280
66	CZ000590555932	STATEK SOBETICE	EVEREST	2	288	15 311	4,84	741	3,52	539	1280
67	CZ000649730961	ZEM.DRUZSTVO PETRIN	BIG IRON	4	364	15 251	4,97	758	3,42	522	1280
68	CZ000331606981	NETIS, A.S.	CABRIOLET	3	434	16 414	4,34	712	3,45	567	1279
69	CZ000656167961	LUKA, A.S.	DONATELLO	4	366	19 205	3,59	690	3,06	588	1278
70	CZ000482230932	ZEAS PUCLICE A.S.	MAINTOP	3	439	17 056	4,12	702	3,38	576	1278
71	CZ000402052953	ZS OSTRETIN A.S.	LOSTEDEN	3	387	19 543	3,20	625	3,34	652	1277
72	CZ000261546962	ZD JIRICE U MIROSLAVI	G-FORCE	3	411	15 475	5,03	779	3,22	498	1277
73	CZ000348367952	ZS KRATONOHY A.S.	MAYFLOWER	4	313	16 789	4,24	712	3,35	563	1275
74	CZ000688528961	ZEM.DRUZSTVO PETRIN	SUPER C	3	415	15 750	5,02	790	3,07	484	1274
75	CZ000483114932	KLADRUBSKA A.S.	CABRIOLET	3	315	18 705	3,57	668	3,23	605	1273
76	CZ000402301953	ZS OSTRETIN A.S.	JORBEN	3	352	16 424	4,07	668	3,68	605	1273
77	CZ000539030932	ZEAS PUCLICE A.S.	DAY	3	387	15 862	4,50	713	3,53	560	1273
78	CZ000391732921	KOPECKY PAVEL	PENNYMAKER	4	346	16 853	4,13	696	3,42	576	1272
79	CZ000514250932	STATEK SOBETICE	PEPPER	4	294	14 339	5,37	770	3,50	502	1272
80	CZ000792452961	LUKA, A.S.	MAYFLOWER	2	354	18 366	3,78	695	3,14	576	1271
81	CZ000348370952	ZS KRATONOHY A.S.	JETT AIR	3	307	15 679	4,97	780	3,13	491	1271
82	CZ000288260953	ZS OSTRETIN A.S.	LARON P	5	397	15 708	4,28	672	3,81	598	1270
83	CZ000354586953	ZD SLOUPNICE	ZEUS	5	312	16 736	4,16	697	3,42	573	1270
84	CZ000687421961	AGROPODNIK KOSETICE	MARTINI	3	438	15 841	4,39	695	3,62	574	1269
85	CZ000376516952	ZD DOBRUSKA	ILVOLO	3	345	15 508	4,75	736	3,44	533	1269
86	CZ00038888952	AGRO BYSTRICE A.S.	FACEBOOK	2	340	13 842	5,57	771	3,60	498	1269
87	CZ000394348953	AG SKORENICE A.S.	SILVER	3	327	17 694	4,17	737	3,00	531	1268
88	CZ000420448953	ZD SLOUPNICE	DOORMAN	2	426	16 565	4,06	672	3,59	595	1267
89	CZ000277243981	ZP OTICE, A.S.	MICA	5	302	15 683	4,44	697	3,63	570	1267
90	CZ000700396961	AGRAS BOHDALOV, A.S.	URANUS	3	310	16 659	4,12	686	3,48	580	1266

5. Artificial insemination in 2022

5.1 Numbers and proportion of the first and total inseminations in different breeds



5.2 Numbers and proportion of inseminations by semen of bulls proven in different countries (imports) 2022



* Bulls at Czech AI stations
DSF - Denmark, Sweden and Finland

5.3 Numbers and proportion of the first and total inseminations in different categories

Category	Bulls	1st ins.	% 1st ins.	All ins.	% All ins.	all/1st %
a) B&W	809	267 731	94,8	547 388	94,9	2,04
Young bulls	405	154 344	57,6	316 255	57,8	2,05
at CZ AI stations	102	38 070		90 436		
Proven bulls	404	113 387	42,4	231 133	42,2	2,04
at CZ AI stations	67	9 362		25 438		
b) R&W	116	14 552	5,2	29 393	5,1	2,02
Young bulls	76	11 625	79,9	23 208	79,0	2,00
at CZ AI stations	12	2 285		5 448		
Proven bulls	40	2 927	20,1	6 185	21,0	2,11
at CZ AI stations	5	673		1 605		
Total B&W + R&W	925	282 283	100,0	576 781	100,0	2,04
Young bulls	481	165 969	58,8	339 463	58,9	2,05
at CZ AI stations	114	40 355		95 884		
Proven bulls	444	116 314	41,2	237 318	41,1	2,04
at CZ AI stations	72	10 035		27 043		

5.4 Breeding bulls with the highest number of 1st insemination

Name	1st ins.	All ins.	SIH	SIH2	Sire	Sire of Dam
HALFTIME	5 597	10 464	GENOM	126,2	Gamechanger	Achiever
VENITO	5 085	10 043	GENOM	125,1	Challenger	Jedi
MARTINI	4 318	8 480	GENOM	125,1	Milktime	Frazzled
CRIMSON	3 676	6 695	PROVDC	126,4	Spectre	Rubicon
FOXCATCHER	3 526	7 046	PROVDC	125,7	Panther	Foxsong
BANNER	3 253	6 016	GENOM	124,3	Crimson	Blowtorch
COLLECTOR	3 124	6 143	GENOM	129,5	Altaplinko	Frazzled
ALTAZAREK	2 965	5 612	PROVDC	124,0	Altatopshot	Rubicon
HONEYCOMB	2 943	5 502	GENOM	124,6	Altazarek	Prophecy
OPTIMIZER	2 745	5 597	GENOM	136,9	Martin	Hotline
ALTAPLINKO	2 657	4 327	GENOM	130,4	Marius	Altatopshot
FERRY	2 431	4 397	GENOM	135,0	Merrimac	Frazzled
DUKO	2 430	5 013	GENOM	132,7	Charl	Altatopshot
BLACKFOOT	2 401	5 554	GENOM	143,1	Semino	Gatedancer
ALTANAVIGATE	2 382	5 108	GENOM	123,0	Marius	Jedi
BRUNO	2 327	4 629	GENOM	148,9	Semino	Gatedancer
CERT	2 305	4 795	GENOM	143,0	Twitch	Gatedancer
BENNIE	2 260	3 862	GENOM	135,5	Timberlake	Altarobson
CAELUM	2 234	5 469	PROVDC	137,2	Supershot	Mogul
KODIAK	2 223	4 062	GENOM	134,1	Soundcloud	Windmill
CHALLENGER	2 218	4 599	PROVDC	127,3	Superhero	Silver
DUKE	2 200	4 109	PROVDC	134,7	Montross	Supersire
BILLY	2 162	3 905	PROVDC	125,9	Achiever	Rubicon
ALTAGAINES	2 156	4 311	GENOM	131,8	Altazazzle	Positive
MITCHELL	2 120	3 530	PROVDC	131,0	Mitchell	Bombero
FUTURE	2 114	4 114	PROVDC	122,6	Frazzled	Balisto
TAHITI	1 933	3 473	PROVDC	130,6	Frazzled	Delta
FUGLEMAN	1 888	3 440	GENOM	134,6	Altazazzle	Positive
CASHIN	1 867	3 273	PROVDC	130,1	Rubicon	Cashcoin
ROWDY	1 859	3 427	PROVDC	121,5	Josuper	Mogul
GODDARD	1 851	3 802	PROVDC	130,1	Blowtorch	Delta
SABER	1 794	3 685	PROVDC	125,2	Helix	Damaris
ACHIEVER	1 759	3 382	PROVDC	123,7	Yoder	Altaembassy
GIOVANNI	1 735	3 115	GENOM	134,3	Pursuit	Guarantee
ENDURANCE	1 727	4 003	PROVDC	131,1	Bravo	G Force
RORY	1 713	2 905	PROVDC	130,9	Gatedancer	Rubicon
RASTABALL	1 690	2 958	GENOM	122,3	Fastball	Alcove
CESNA	1 670	4 089	GENOM	143,0	Audi	Semino
GYMNAST	1 614	3 181	PROVDC	139,0	Doorsopen	Jabir
NADRAC	1 579	3 247	G/P	128,3	Kerrigan	Supershot

BULLS

At the first insemination

Young bulls 58,8 %

Proven bulls 41,2 %

At all inseminations:

Young bulls 58,9 %

Proven bulls 41,1 %



Name	1st ins.	All ins.	SIH	SIH2	Sire	Sire of Dam
SHAWARMA	1 549	2 827	GENOM	121,5	Milktime	Jedi
LIONEL	1 546	2 731	PROVDC	140,3	Frazzled	Montross
CHARMING	1 544	3 291	GENOM	128,3	Kenobi	Sound System
HERITAGE	1 544	2 063	GENOM	135,5	Hughes	Everest
ESCAPADE	1 528	3 062	GENOM	123,4	Acura	Samaritan
RHUMRAISIN	1 511	3 015	GENOM	129,8	Oheme	Mondeo
BADR	1 446	3 293	GENOM	125,2	Hotspot P	Missouri
LAUNCH PP	1 430	2 592	GENOM	123,4	Jopper	Handy P
BONAPARTE	1 402	3 074	GENOM	144,2	Semino	Polledstar P
PLACID	1 393	2 765	GENOM	135,9	Garido	Liepin
MILLINGTON	1 389	2 685	PROVDC	127,5	Miles	Shamrock
GARIDO	1 386	2 947	PROVDC	143,7	Gymnast	Penley
CONAN	1 374	3 228	PROVDC	135,3	Commander	Sterngold
ALPHABET	1 337	2 600	PROVDC	133,1	Helix	Yoder
BIGSHOT	1 291	2 271	GENOM	131,7	Renegade	Frazzled
ENGINEER	1 265	2 298	GENOM	134,3	Pursuit	Prophecy
SINUS	1 242	3 144	PROVDC	135,8	Silver	Bedford
ALTAIZZA	1 211	2 492	GENOM	123,1	Altahotjob	Jedi
CONCERT	1 208	2 681	PROVDC	132,2	Crescendo	G Force
FREESTYLE	1 198	2 256	GENOM	132,2	Gywer RDC	Born P RDC
MATCHUP	1 196	2 776	PROVDC	125,1	Altatopshot	Delta
BOOKMAKER P-RED	1 162	2 114	GENOM	131,7	Match	Booking Red
DEFIANCE	1 158	2 160	PROVDC	124,5	Midgard	Supersire
MENTOR	1 153	2 269	PROVDC	124,6	Magnus	Supershot
INTRICATE	1 152	2 254	GENOM	125,0	Pursuit	Achiever
MOON	1 146	1 988	GENOM	130,1	Marius	Helix
NIGHTCAP	1 137	2 132	PROVDC	127,1	Altaspring	Numero Uno
ENTITY	1 123	1 743	PROVDC	126,6	Matters	Rubicon
HOTLINE	1 114	2 124	PROVDC	128,8	Altahotrod	Mogul
NIPPON P	1 102	2 143	GENOM	118,2	Hotspot	Bernell
ALTADOBBY	1 093	2 020	GENOM	128,6	Fastball	Milktime
BALATON	1 077	2 714	GENOM	143,5	Semino	Mardi Gras
CARPER	1 063	2 195	GENOM	136,8	Harper	Semino
KALEIDO P	1 052	1 873	GENOM	126,9	Hotspot P	Battlecry
CECIL	1 051	2 679	GENOM	126,5	Marius	Rockstar
NEDREBO	998	2 204	PROVDC	119,3	Raiden	Supershot
RANDALL	993	1 796	PROVDC	133,1	Loptimum	Numero Uno
TAOS	982	2 030	GENOM	134,8	Renegade	Jedi
PIWI ETL	978	1 994	GENOM	130,0	Adlon	Archer
RUBICON	951	1 416	PROVDC	133,1	Mogul	Robust
GRIFF	940	1 738	PROVDC	139,5	Silver	Supersire
ALTAALANZO	938	1 632	GENOM	133,9	Altazazzle	Guinness
SOPRANO	930	1 644	PROVDC	122,4	Modesty	Silver
IVON EBA	924	2 810	PROVDC	119,1	Meridian	Beacon
BORD RED P	920	2 126	GENOM	129,7	Solitaire P	Pace Red
TIMBERLAKE	920	1 878	PROVDC	129,1	Imax	Supershot
UPSWING	909	1 748	GENOM	132,5	Pursuit	Duke
CONTRA	901	2 036	GENOM	112,9	Charl	Modesty
SPECTRE	901	1 937	PROVDC	125,9	Yoder	Supersire
TORNADO	898	1 920	GENOM	128,9	Skywalker	Esperanto
CELIX	870	1 937	GENOM	140,7	Helix	Mardi Gras
ALTATOPSHOT	836	1 505	PROVDC	131,0	Supershot	Altaembassy
DEWEY	836	1 414	PROVDC	123,4	Burley	Delta
AMPLUS	824	1 866	PROVDC	121,9	Lylas	Monterey
RORY	822	1 522	GENOM	133,9	Rowdy	Medley
ALTAINTEREST	821	1 790	GENOM	135,2	Altaplinko	Positive
LUKAKU	818	2 099	PROVDC	118,9	Eldorado	Rubicon
LONDON	818	1 932	PROVDC	126,4	Montross	Grafeeti
BANKSY	817	1 642	GENOM	130,3	Marius	Imax
FRAZZLED	810	1 572	PROVDC	116,0	Josuper	Shotglass
RENEGADE	810	1 481	PROVDC	137,2	Jaltaoak	Millington
ALTACERULEAN	797	1 820	GENOM	125,2	Crimson	Reason
MAYFLOWER	787	1 489	PROVDC	122,8	Snowman	Socrates
BRUTUS	784	2 639	GENOM	142,9	Semino	Gatedancer
CATCHY	777	1 751	GENOM	129,0	Charl	Jedi
JOYSTAR	758	1 495	PROVDC	124,6	Shotglass	Shamrock
BARNEY	752	1 548	GENOM	128,1	Altahotjob	Bandares
APACHE	750	1 964	GENOM	135,3	Vancouver	Rubicon
EVITE	747	1 537	GENOM	125,2	Pursuit	Maverick
BARKLEY	734	1 730	PROVDC	127,0	Superman	Tango
COPYRIGHT	727	1 522	G/P	127,6	Imax	Jedi
SPEEDUP P	725	1 224	GENOM	125,1	Hotspot P	Zipit P
CRISIS	710	2 094	GENOM	126,3	Sound System	Josuper
HAWAI	705	1 442	PROVDC	127,3	Apprentice	Silver
COPYCAT	705	1 355	PROVDC	132,1	Jedi	Jacey

Name	1st ins.	All ins.	SIH	SIH2	Sire	Sire of Dam
CASH	702	1 235	GENOM	125,9	Charl	Jedi
CALVADOS P	700	1 768	GENOM	135,5	Zologram P	Mardi Gras
MELVILLE	696	1 387	GENOM	131,4	Merryguy	Malinus
DEYSER P	683	1 570	GENOM	136,5	Geyser P	Mardi Gras
ACHAT	681	1 625	GENOM	138,1	Semino	Board
ALTAMAGNIFIQUE	680	1 140	GENOM	127,3	Maestro	Positive
ALMAMATER	671	1 284	GENOM	122,6	Alcove	Montana
BONUM	665	1 431	PROVDC	137,8	Balisto	Epic
PHILIP	650	1 307	GENOM	122,9	Aristocrat	Burley
RICOCHET	628	1 140	GENOM	139,4	Renegade	Resolve
MAURICE	620	1 114	PROVDC	116,3	Eugenio	Profit
VANCOUVER	619	1 467	PROVDC	130,9	Board	Balisto
RUNNER	617	1 607	GENOM	135,0	Crown	Duke
TORONTO	614	1 344	PROVDC	136,9	Burley	Rubicon
ALDO	614	1 341	GENOM	127,6	Acura	Medley
NIGHTHAWK	602	970	PROVDC	126,7	Altaspring	Numero Uno
MERCEDES	596	926	G/P	133,2	Medley	Profit
BUTLER	595	1 455	GENOM	127,7	Timberlake	Superhero
CONDOR	588	1 158	GENOM	131,5	Austad	Doc
ALCOVE	586	946	PROVDC	133,0	Duke	MVP
BON JOVI	585	1 517	GENOM	143,8	Semino	Gatedancer
URANUS	575	1 246	PROVDC	129,9	Montross	McCutchen
ROLAN	572	1 091	PROVDC	122,6	Modesty	Bombero
MARISTOCRAT	568	1 338	GENOM	115,9	Aristocrat	Verona
NOMINATOR RED	563	1 067	GENOM	124,0	Jacuzzi Red	Finder
MINGUS	563	894	GENOM	138,4	Pursuit	Superhero
ROCKETFIRE	558	1 057	PROVDC	119,1	Josuper	Sterling
REDROCK	556	856	PROVDC	123,9	Jedi	Kingboy
ADVANCE	553	1 161	PROVDC	123,2	Achiever	Profit
FACTOTUM	549	1 015	GENOM	130,3	Altazazzle	Positive
COMANCHE	545	1 698	GENOM	129,4	Kenobi	Benz
GOKU	539	888	GENOM	134,6	Maestro	Marius
ESCALATE	532	877	PROVDC	130,0	Frazzled	Yoder
OXTERRIL	531	1 020	G/P	125,7	Surgeon	Hefalo Isy
DRONE PP RED	526	918	GENOM	131,0	Nectar	Esperanto
SOUND SYSTEM	518	1 204	PROVDC	135,4	Silver	Supersire
BAYLOR	516	1 009	PROVDC	112,7	Delta	Bob
PILATES	514	1 325	PROVDC	128,2	Jetset	Danno
HURION ISY	514	1 129	PROVDC	123,4	Sudan	Planet
HILLTOP	514	1 047	GENOM	129,6	Challenger	Josuper
DIABLO	510	1 227	GENOM	144,7	Rapid	Altaspring
ALTARONDON	508	1 002	PROVDC	121,9	Rowdy	Midnight
HELIX	508	848	PROVDC	129,7	Silver	Supersire
MANAVA	506	944	PROVDC	115,0	Anamur	Balisto
ZILLION	498	887	GENOM	138,7	Big Al	Fabulous
ALTAFAULT	496	1 095	GENOM	127,9	Milktime	Desoto
LEMANS	489	990	PROVDC	129,4	Altaflywheel	Yoder
TASKFORCE P RED	488	1 073	GENOM	133,4	Jacko PP Red	Esperanto
ALTATIKI	488	655	GENOM	133,2	Milktime	Altarobson
DEDICATE	485	665	G/P	121,1	Superhero	Robust
AXEL	483	1 253	G/P	145,0	Gymnast	Yoder
MARIUS	481	975	PROVDC	128,5	Jedi	Bombero
PERRY PK	481	732	GENOM	121,0	Discjockey	Hotline
MASTROLILI	480	962	PROVDC	137,9	Kerrigan	Balisto
CARGO P	476	1 104	GENOM	133,2	Simon P	Board
PAYLOAD	476	998	GENOM	127,9	Eisaku	Matters
PICTOGRAPH	467	912	GENOM	130,2	Guarantee	Profit
VALIDATED	465	1 171	GENOM	128,7	Altazazzle	Altahotjob
MAINSTREET	461	889	GENOM	129,8	Altarobert	Positive
MILANO	458	875	GENOM	124,1	Sidekick	Alligator
BOLIVIA	446	933	PROVDC	126,0	Bourbon	Supershot
ALTALUCHE	443	971	GENOM	131,5	Marius	Jedi
DYNAMO	442	728	PROVDC	124,2	Rubicon	Robust
ACHILL	431	1 926	GENOM	120,7	Chillax	Delta
RIDGELINE	430	1 118	G/P	119,2	Topnotch	Delta
MORANT	423	1 165	G/P	126,7	Altamontoya	Modesty
BAXTER	420	896	PROVDC	123,5	Burley	Troy
AVAR	420	873	GENOM	138,6	Vancouver	Jedi
LOUIS P RED	418	886	GENOM	122,5	Gywer RDC	Handy P
KAMERAAD	414	849	GENOM	122,1	Gywer	Styx Red
PORSCHE	411	795	GENOM	130,3	Dante	Granite
CYRANO	408	1 038	GENOM	141,3	Arwen	Benz
SOLUTION	407	637	PROVDC	117,4	Goliath	Laudan
GO FAST RED	405	654	PROVDC	111,9	Salvatore RC	Delta





REPRODUCTION 2022

394
intercalving interval

24/05
age of first calving

PREGNANCY The first insemination

Total

38,7 % cows

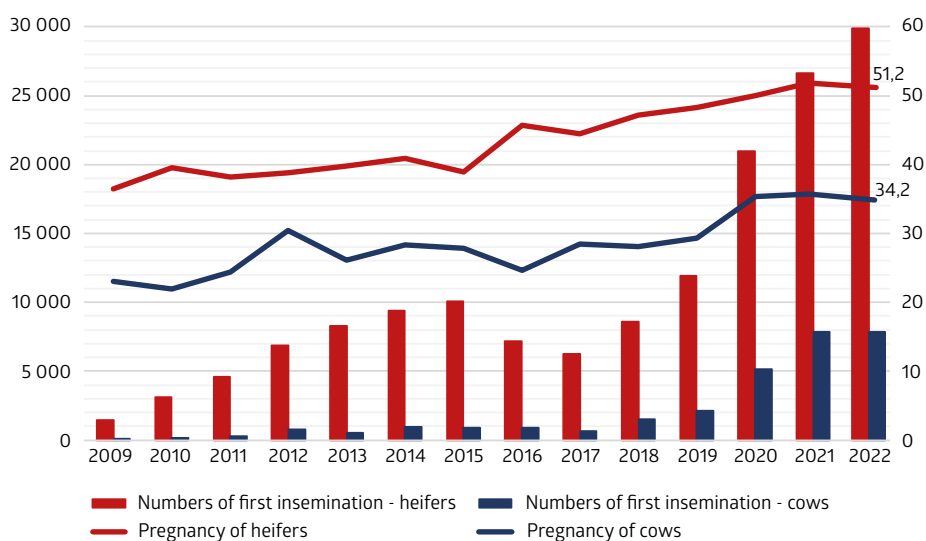
59,0 % heifers

Sexed semen

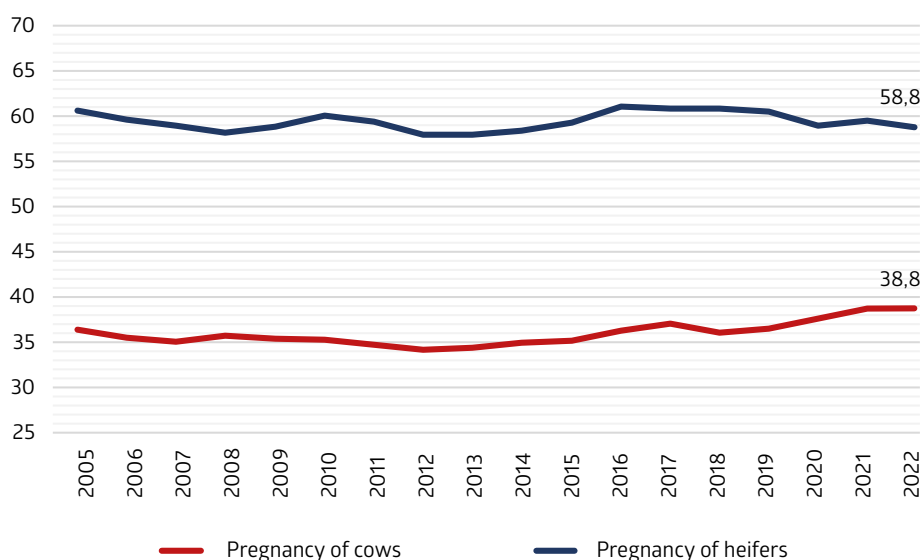
34,2 % cows

51,2 % heifers

5.5. Numbers of the first insemination and conception after sexed semen

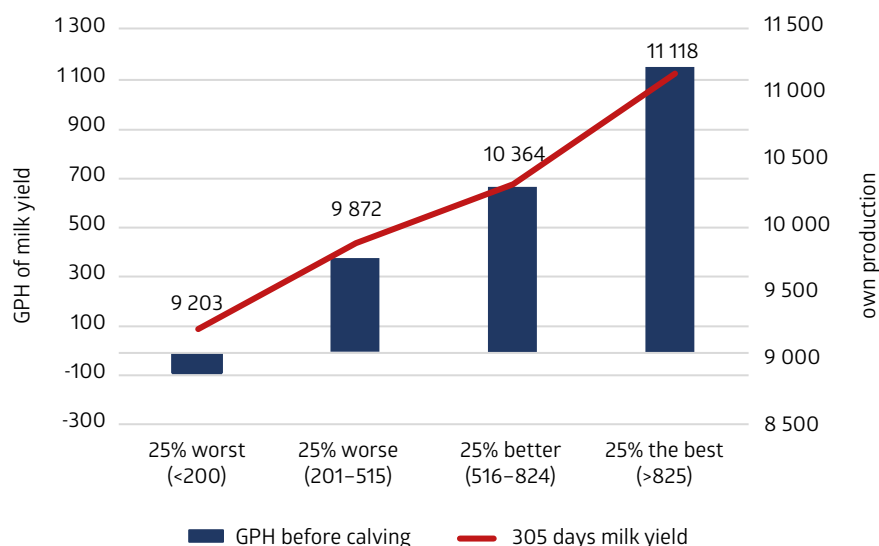


5.6 Conception of the first insemination



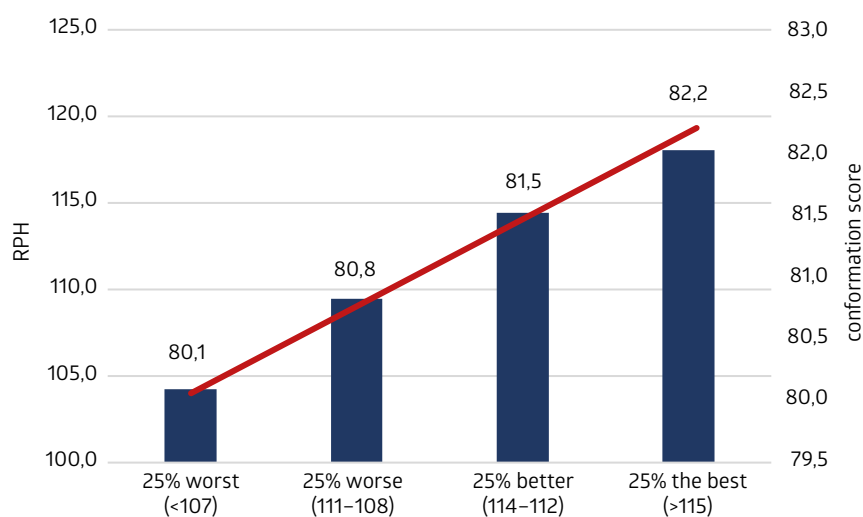
6. Comparison of genomic Breeding Values and fenotyp

6.1 Comparison of GPH and milk production (305 days)



n = 10223
Calculation of GPH in 12/2022

6.2 Comparison of GPH and conformation



n = 12852
Calculation of GPH in 12/2022



12/2022

50 000
genotyped heifers

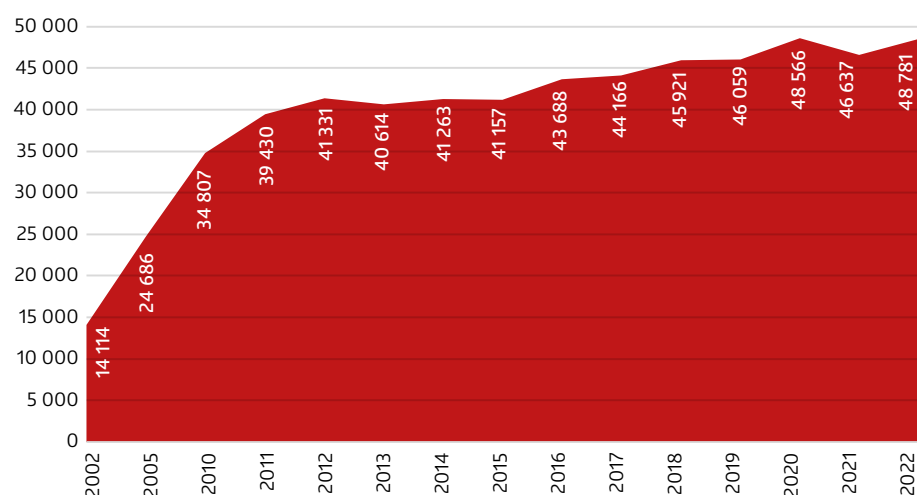
49 000
calculation of GPH

10 023
milk 1st lactation
(phenotype)



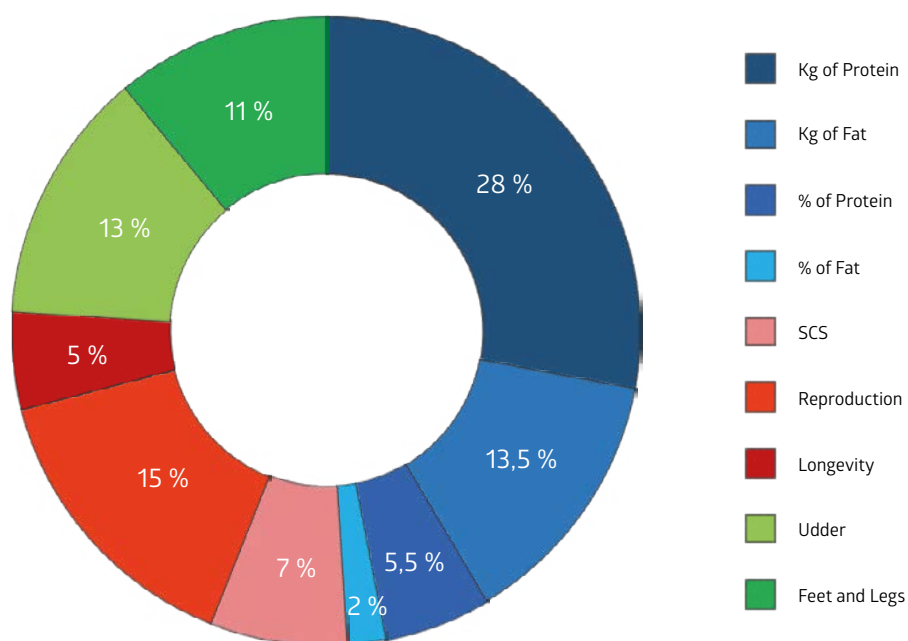
7. Type evaluation

7.1 Numbers of type scored first calvers



8. Selection index for Holstein cattle

Production 49 %, Conformation 24 %, Functional 27 %



9. Cows with the highest lifetime yield

Rank	Cow	Name	Sire	Breeder	Lac.	Milk Kg	F %	F Kg	P %	P Kg
1	3562-953	OSEVA ESTER	EROTIC	OSEVA A.S. CHRUDIM	12	158 942	3,41	4987	3,25	4760
2	56354-246	MASA	BELLWOOD	JINDROVA ZEMED.FARMA	13	157 989	4,26	5947	3,09	4302
3	101648-205	MARUSKA	SID	AGRODRUZSTVO ZAHORI	11	156 587	3,44	4575	2,90	3857
4	404633-961	N-V BARBORA II	ALTON	ZDV NOVOVESELSKO	10	155 189	3,23	4210	2,89	3764
5	339905-931	ZAHORI GABINKA	O MAN	AGRODRUZSTVO ZAHORI	10	151 925	3,10	4331	3,30	4611
6	44130-265	HELENKA	LANGS	AGRODRUZSTVO ZAHORI	12	151 835	3,58	4769	3,02	4025
7	296316-961	ZERAS MAMBA ET	MASCOL	ZERAS A.S.	11	150 122	3,33	4668	3,20	4487
8	44207-328	PRINCEZNA	MASTER	CZF MILLER	8	149 335	3,34	4040	3,11	3754
9	137153-921	IRMA	GORBY	KOPECKY PAVEL	8	148 427	3,13	3748	3,08	3685
10	187257-961	AGRAS ADELKA	CONKER	AGRAS BOHDALOV, A.S.	9	148 170	3,50	4404	3,04	3815
11	161329-981	HALINA	ECONOM	DRUZSTVO ZAGRA	11	144 596	2,94	4061	2,82	3894
12	222923-953	OSEVA ARANCA 2	STAME	OSEVA A.S. CHRUDIM	10	143 751	3,71	5066	3,15	4303
13	191151-932	ELIZABETH	A-A WIN 395	OD SOBESICE	9	143 631	3,67	3998	3,18	3460
14	63536-614	ZERAS CESNA	CALVIN	ZERAS A.S.	10	143 455	3,42	4510	3,00	3958
15	146716-952	KRALIKY MARCELA	ISIDORUS	ROLNICKA A.S. KRALIKY	11	143 452	3,56	4720	2,91	3854
16	260274-961	BARA	O MAN	ZP OSTROV, A.S.	11	142 892	3,48	4881	3,35	4698
17	63505-614	ZERAS CARMEN	CALVIN	ZERAS A.S.	9	142 576	3,42	4473	3,19	4176
18	136637-614	N-V BARBORA	GARRETT	ZDV NOVOVESELSKO	11	142 560	3,27	4108	2,96	3727
19	134947-204	BRONA	ENEM	AGROPODNIK KOSETICE	14	138 707	4,59	5772	3,32	4171
20	124585-952	KRALIKY NIKOLA	MALWOOD	ROLNICKA A.S. KRALIKY	10	138 598	3,72	4404	3,17	3750
21	18348-203	CRF LIDA	CUBBY	CRF, SPOL.S R.O.	10	138 578	3,32	3730	3,14	3529
22	117324-204	HOREPNIK BIANKA	BURMEISTER	AGRODAM HOREPNIK S.R.O.	12	138 558	3,32	3926	3,00	3551
23	76340-264	CILKA	MR MOON	AGROPODNIK KOSETICE	12	137 645	3,55	4361	3,03	3727
24	452810-961	AGRAS AGRIAS	KRAMER	AGRAS BOHDALOV, A.S.	7	137 441	3,31	3741	2,93	3310
25	45031-961	CERNOV LADY 2	BOMBAY	ROZVODI CERNOV S.R.O	9	137 226	3,36	4106	3,29	4017
26	111713-204	BETA	JALAPENO	AGROPODNIK KOSETICE	12	137 069				
27	119864-505	BLANKA	MANAT	ZD DOLANY	10	136 984	3,44	4185	3,23	3933
28	248582-921	NACERADEC MARTINA	ASHLAR	AGRO DRUZSTVO NACERADEC	10	136 945	4,19	5100	3,49	4248
29	118846-501	VYSOKA MILKA	MASCOTTE	POLABI VYSOKA A.S.	12	136 760	4,04	4978	3,35	4129
30	163186-971	TARJA	KNOT	MESPOL MEDLOV, A.S.	9	136 741	3,15	3761	2,97	3544
31	100298-110	MANKA	CIPISEK	CZF MILLER	7	136 648	2,93	2946	2,88	2897
32	103540-505	KARLA	INDER	ZD DOLANY	12	136 476	3,47	4579	3,23	4260
33	141678-962	SOJKA	RAFAEL	DRAPAL STANISLAV ING	10	136 421	3,56	3554	3,19	3188
34	426781-961	N-V MARINA	JAMMER	ZDV NOVOVESELSKO	10	135 853	3,38	4312	3,02	3852
35	271848-932	BABINKA	TERRAY	ALIMEX NEZVESTICE A.S.	10	135 372	3,42	4248	3,02	3749
36	229613-932	MECLOV ESTER 23	AIRRAID	MECLOVSKA ZEMEDEL.A.S.	10	135 196	4,05	4767	3,24	3818
37	301734-932	DOROTA	JAMMER	JILEK JAN ING.	9	135 156	3,56	3778	3,09	3277
38	81707-621	LADA		VOS ZEMEDEL CU, A.S.	11	135 045	3,29	4110	2,93	3658
39	378550-961	JARCA	JAKE	ZD DUSEJOV, DRUZSTVO	10	134 950	3,52	4316	3,00	3679
40	120880-505	MARTINA	MANAT	ZD DOLANY	11	134 740	3,65	4584	3,20	4028
41	37299-645	JULCA	JESTHER	SVIZELA JOSEF	13	134 303	3,65	4608	3,27	4128
42	399215-961	STELA	GUARDIAN	AGROPODNIK KOSETICE	9	134 069	3,53	4342	2,87	3523
43	217275-953	BABCA	TERRAY	HANACKA ZS JEVICKO	10	133 950	3,19	4059	3,03	3857
44	101482-105	JEDNICKA	K-MAN	PIAS SUCHDOL, A.S.	11	133 889	3,33	3878	3,01	3504
45	163129-981	FARM-VA ASTREA A11	FLIP	ZD RUZOVY PALOUCHEK	10	133 497	3,48	4211	3,07	3717
46	267499-961	MARIANA	LYNCH	AGRA BR TNICE, A.S.	9	133 134	3,53	4040	3,06	3503
47	148360-972	ZASNI KARLICKA	TOYSTORY	ZEM.AKC.SPOL.NIVNICE	10	133 102	3,11	3674	3,06	3618
48	452859-961	AGRAS MIA	SUPER	AGRAS BOHDALOV, A.S.	8	132 983	3,20	3814	3,13	3739
49	269106-932	AMALKA	EVERETT	KLADRUBSKA A.S.	10	132 737	3,60	4124	3,12	3583

Rank	Cow	Name	Sire	Breeder	Lac.	Milk Kg	F %	F Kg	P %	P Kg
50	8396-961	AGRAS BOZENKA	DANE	AGRAS BOHDALOV, A.S.	9	132 158	4,09	4730	3,15	3645
51	260394-961	SELEKTA STRAKA	POTTER	SELEKTA PACOV, A.S.	10	131 906	3,19	3741	3,12	3665
52	129810-972	ZASNI JANICKA	POTTER	ZEM.AKC.SPOL.NIVNICE	10	131 587	3,62	4303	2,90	3454
53	185970-981	BETKA	FLIP	DRUZSTVO ZAGRA	9	131 577	3,52	4021	3,13	3573
54	123128-972	JECMINEK MIRIAM	VIRGAS	AGROJECMINEK S.R.O.	10	131 336	3,62	4054	3,04	3409
55	139665-972	JECMINEK PAVLA	ECONOM	AGROJECMINEK S.R.O.	8	131 336	3,41	3901	3,02	3460
56	169619-972	ZASNI EVICKA	FLORYN	ZEM.AKC.SPOL.NIVNICE	9	131 207	3,90	4494	3,27	3768
57	153391-921	NACERADEC KATKA	CONCORD	AGRO DRUZSTVO NACERADEC	8	131 066	3,56	3654	3,15	3232
58	143503-614	N-V BLAZENA	ROSCOE	ZDV NOVOVESELSKO	10	130 260	3,04	3805	2,91	3645
59	446392-961	IVETA	INLEE	AGRO POSAZAVI, A.S.	7	129 987	3,36	2853	3,06	2599
60	101857-971	MARTINA	CROCODILE	AGRAS ZELATOVICE A.S.	9	129 619	3,70	3649	3,06	3024
61	142887-972	JANICKA	FAB	AGD MORKOVICE, DRUZS.	11	129 601	4,19	4902	3,59	4206
62	173-921	KRA-HO PETRA	JESTHER	ZD KRASNA HORA A.S.	10	129 471	3,59	4125	3,02	3475
63	118041-101	BETY	JESTHER	KOPECKY PAVEL	7	129 442	4,24	4651	3,32	3643
64	125433-205	ZAHORI IVANKA	BOND	AGRODRUZSTVO ZAHORI	8	129 287	3,51	3900	2,87	3186
65	236581-971	ADELA	T PETER P	VYJIDACEK RADOMIR	8	129 209	3,88	4587	3,24	3820
66	308344-921	ZDISLAVICE MATYLDA	HILL	VOD ZDISLAVICE	7	128 987	3,47	3744	3,03	3271
67	293152-932	JELINEK	SCOOPY-DUU	ALIMEX NEZVESTICE A.S.	9	128 692	3,53	4039	3,27	3739
68	256200-921	KRA-HO JESSI 1	ASHLAR	ZD KRASNA HORA A.S.	10	128 650	3,68	4430	3,22	3880
69	150345-799	GERTRUDA	TRUMAN	MORAVAN, A.S.	9	128 620	3,68	3866	3,29	3460
70	156161-972	JECMINEK VIKTORIE	KONZUL	AGROJECMINEK S.R.O.	7	128 570	4,26	4260	3,18	3180
71	217186-932	MECLOV JESSIKA	JESTO	MECLOVSKA ZEMEDEL.A.S.	10	128 532	3,86	4322	3,05	3411
72	453024-961	AGRAS ARTEMIS	ARDEN	AGRAS BOHDALOV, A.S.	8	128 369	3,52	3620	3,14	3231
73	5944-610	BABINA		ZD SEMIKOVICE	14	128 234	4,55	5387	3,45	4089
74	189907-972	ZASNI JISKRA	BEACON	ZEM.AKC.SPOL.NIVNICE	8	128 150	3,52	4169	3,02	3586
75	174252-921	CECHTICE SAVA	CHARGE	ZD CECHTICE	10	127 928	3,09	3859	3,04	3794
76	63884-614	ZERAS ELIS	EILAND	ZERAS A.S.	9	127 907	3,52	4273	3,16	3841
77	192324-921	JARKA	DARAMIS	ZS KOSOVA HORA A.S.	11	127 794	3,57	4136	3,29	3817
78	308842-932	BOZENA	GARTON	KOPACKA FERDINAND	8	127 783	3,45	3277	3,09	2939
79	467123-961	ZERAS SENA	SUPER	ZERAS A.S.	7	127 711	3,29	3631	2,99	3294
80	254042-953	SEDLICKA HVEZDA	KIRKLAND	ZEVAS VRACLAV A.S.	9	127 671	3,25	3763	3,04	3523
81	426777-961	N-V MILADA	ALTON	ZDV NOVOVESELSKO	9	127 607	3,75	4282	3,28	3744
82	118605-972	BABUSA	PERICLES	ZD MIR RATIBOR	14	127 517	3,97	4974	3,54	4434
83	26480-952	VSESTARY REBEKA	MALWOOD	ZD VSESTARY	11	127 480	3,74	4182	3,30	3694
84	76759-264	CERNOV LADY	LATON	ROZVODI CERNOV S.R.O.	10	127 235	3,78	4427	3,31	3869
85	66210-161	ZDISLAVICE BERTA	BATMAN	VOD ZDISLAVICE	12	127 201	3,86	4647	3,29	3969
86	132281-502	VIKTORKA	BILANZ	DVPM SLAVIKOV	11	127 056	3,07	3401	3,04	3371
87	195700-921	BARBORA	MASCOL	ZOS SESTAJOVICE A.S.	11	126 945	3,38	3993	3,29	3887
88	113671-505	JIRKA	IKARUS	ZD DOLANY	10	126 855	3,40	3697	2,97	3236
89	261651-953	SLOUPNICE IMANY 61651	ALTAFRANK	ZD SLOUPNICE	9	126 494	3,69	4191	3,11	3528
90	148259-972	ZASNI ZLATA	POTTER	ZEM.AKC.SPOL.NIVNICE	10	126 422	3,70	4066	3,12	3425
91	183522-961	RADANA	DALMAZZI	ZOD HORICE	11	125 952	3,09	3415	3,16	3486
92	100032-101	NACERADEC KLEJTKA	CLEIT	AGRO DRUZSTVO NACERADEC	8	125 945	3,71	4176	3,16	3565
93	364989-931	BASIK TITOS DRI	TITOS DRI	BASIK MILAN, ING.	8	125 733	3,73	4035	3,14	3400
94	213611-952	SONA	KOMPAS	ZEPO BELOHRAD A.S.	9	125 716	3,39	3591	3,05	3233
95	93334-130	HOLE KRISTYNA	BONTI	POLACEK OLDRICH	10	125 681	3,48	4098	3,01	3548
96	172495-921	HVEZDA	FROST	DRUZSTVO AGROCHMEL	11	125 549	3,29	3930	3,12	3731
97	164260-951	BR VG JULINKA	LOGAN	ZOD BRNISTE	9	125 523	4,28	4555	3,32	3538
98	18349-203	CRF MILKA	CUBBY	CRF, SPOL.S R.O.	10	125 247	2,95	3351	2,87	3257
99	177621-972	JECMINEK ANTONIE	LOTTO	AGROJECMINEK S.R.O.	7	124 972	3,45	3433	3,06	3042
100	189653-972	ZASNI SNEHURKA	PLATO	ZEM.AKC.SPOL.NIVNICE	8	124 858	3,53	3815	3,01	3253



NO-PE YODER ELENA
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In the Report there are published results of milk recording, genetic evaluation and insemination in the Holstein population in the Czech Republic.

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