



ČESKÝ SVAZ CHOVATELŮ
MASNÉHO SKOTU



CHAROLAIS
in the Czech Republic

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in the Czech Republic

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DNA testing and parentage verification



ACCREDITED LAB
Accredited lab



- ❑ Since 2000 **obligatory** for all breeding bull (A.I. + natural service sires) + heifers
- ❑ Until 2017 STRs analysis
- ❑ Since 2018 **SNPs analysis**
(in accredited lab of Czech-Moravian Breeders Cooperation Ltd.)



DNA ANALYSIS
Accreditation for SNPs
and STRs analysis



Genomic selection – current situation

- ❑ Routine genotyping started 01/10/2018 for parentage verification
- ❑ 2 chips platforms:
 - GeneSeek Genomic Profiler Bovine 150k
 - Illumina BovineSNP50v3 BeadChip
- ❑ Genotyped more than **1350 charolais** animals – mainly young animals (heifers + young bulls entered test stations), already genotyped more than **200 cows and bulls**
- ❑ Since 1.10.2018 creation of „reference population“ (well connected animals for breeders) - high priority for genotyping
- ❑ List of genotyped animals available on our web-site: www.cschms.cz/index.php?page=sle_genomika

Genomic selection – international collaboration

□ via Interbeef

- GenoEx PSE – Exchange of parentage panel
(ICAR project for accredited labs exchange of 100/200 parentage SNP free of charge)
- GenoEx – Exchange of genotypes
- list of genotyped animals in IDEA – Czech rep. is participating

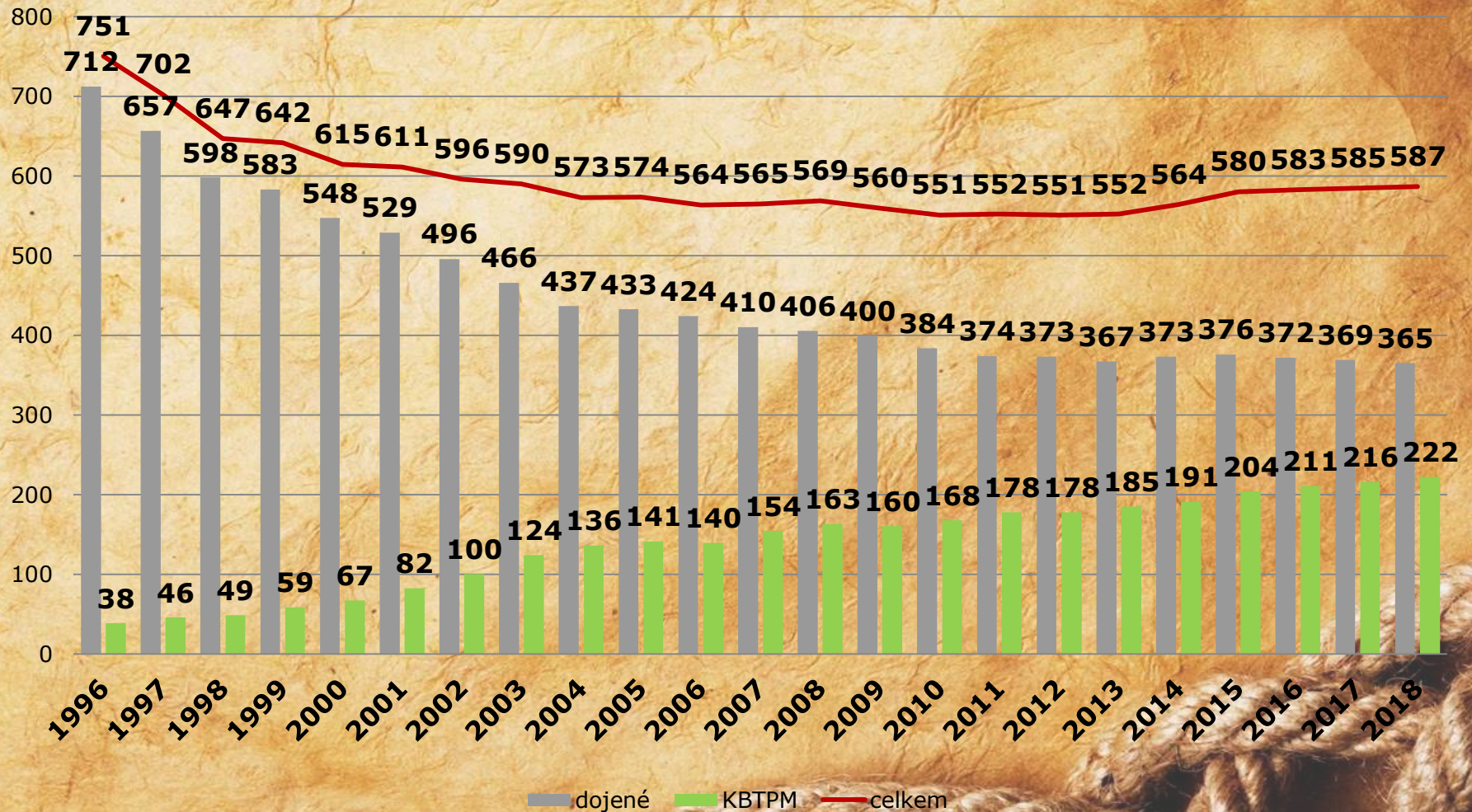
□ Direct communication and collaboration

- List of genotyped animals (genotypes exchange possible) is available also on our web-site:
www.cschms.cz/index.php?page=sle_genomika

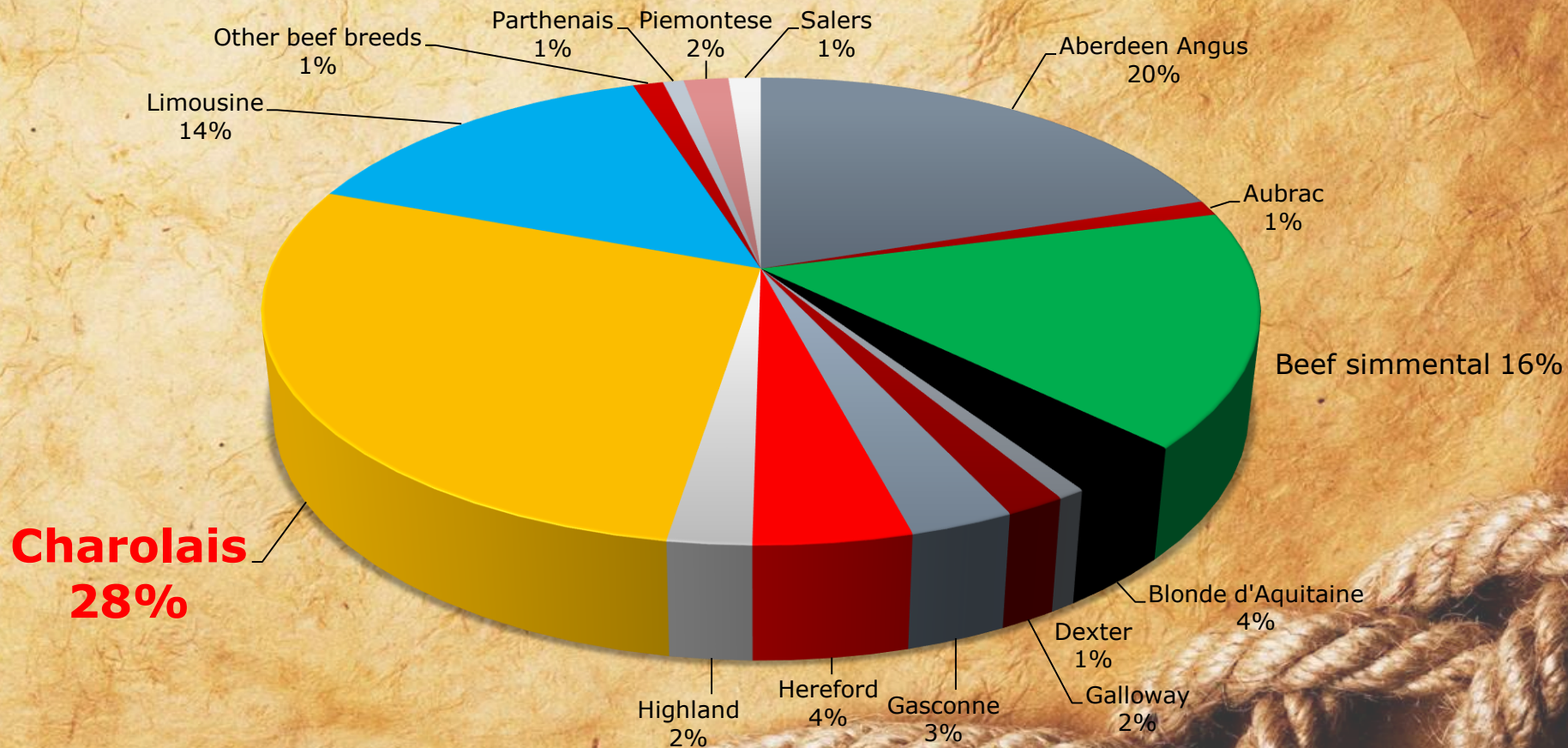
Genomic selection – future

1. Genotyping (started 01/10/2018) =>
2. Single step Genomic BLUP methodology (ssGBLUP) =>
3. GEBV for calving and growth traits in 3 years (calving ease, birth weight, adjusted weight at 120 days, adjusted weaning and adjusted yearling weight) =>
4. Genomic selection

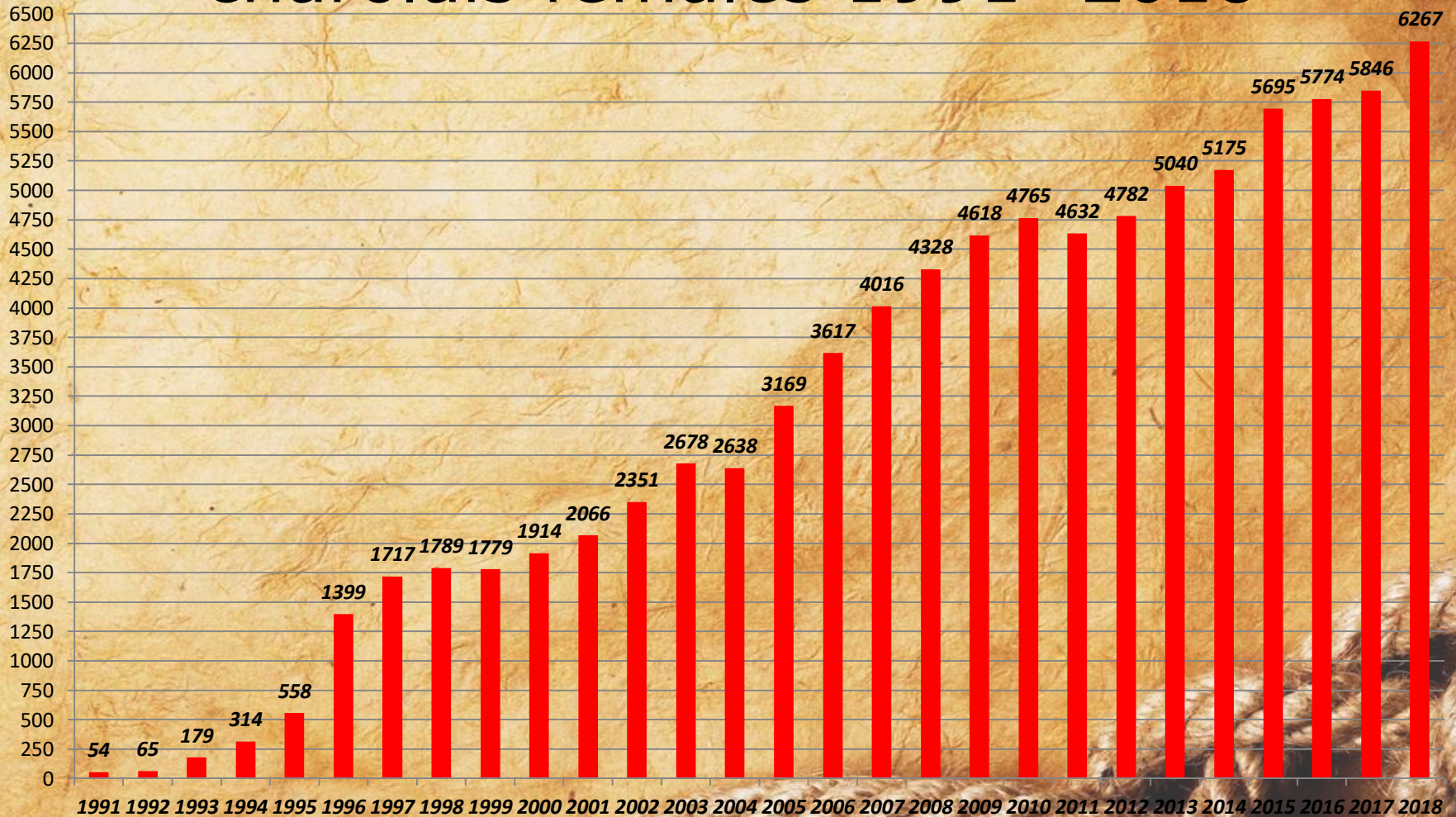
Numbers of cows in CZ (total, dairy, beef)



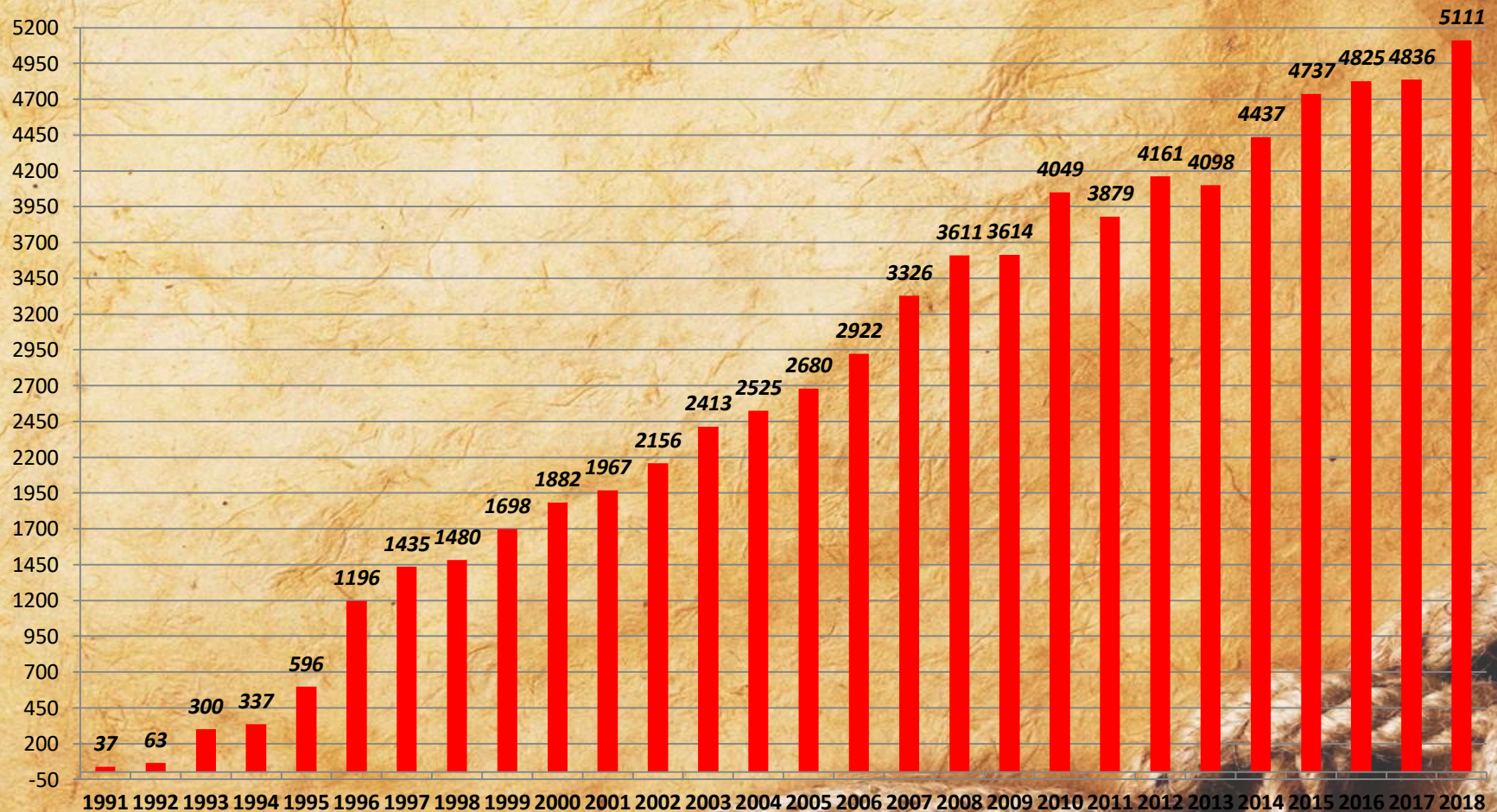
Distribution of different beef breeds registered in Herd Books



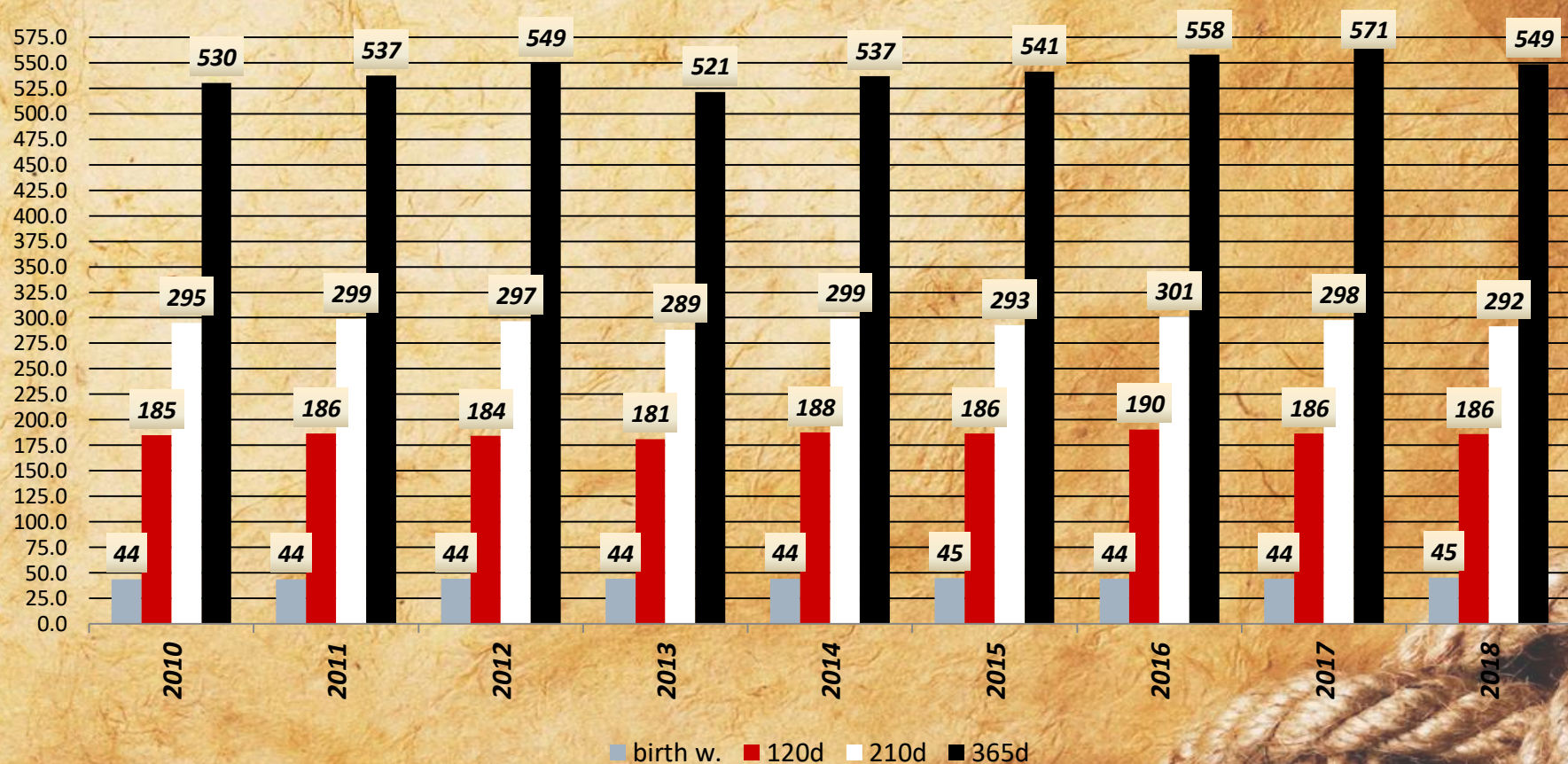
Development of purebred recorded charolais females 1991- 2018



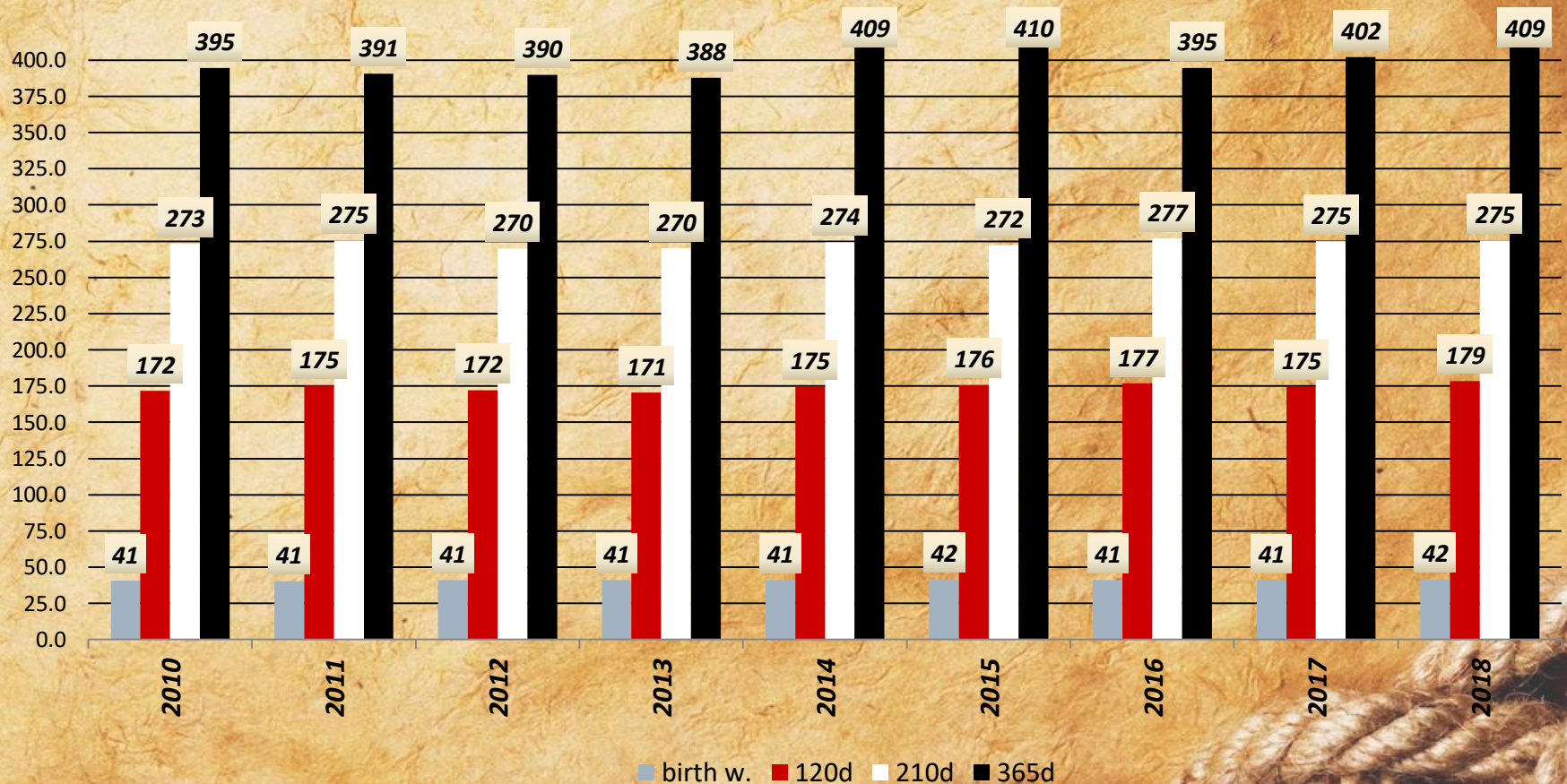
Development in registration of purebred charolais calves 1991 - 2018



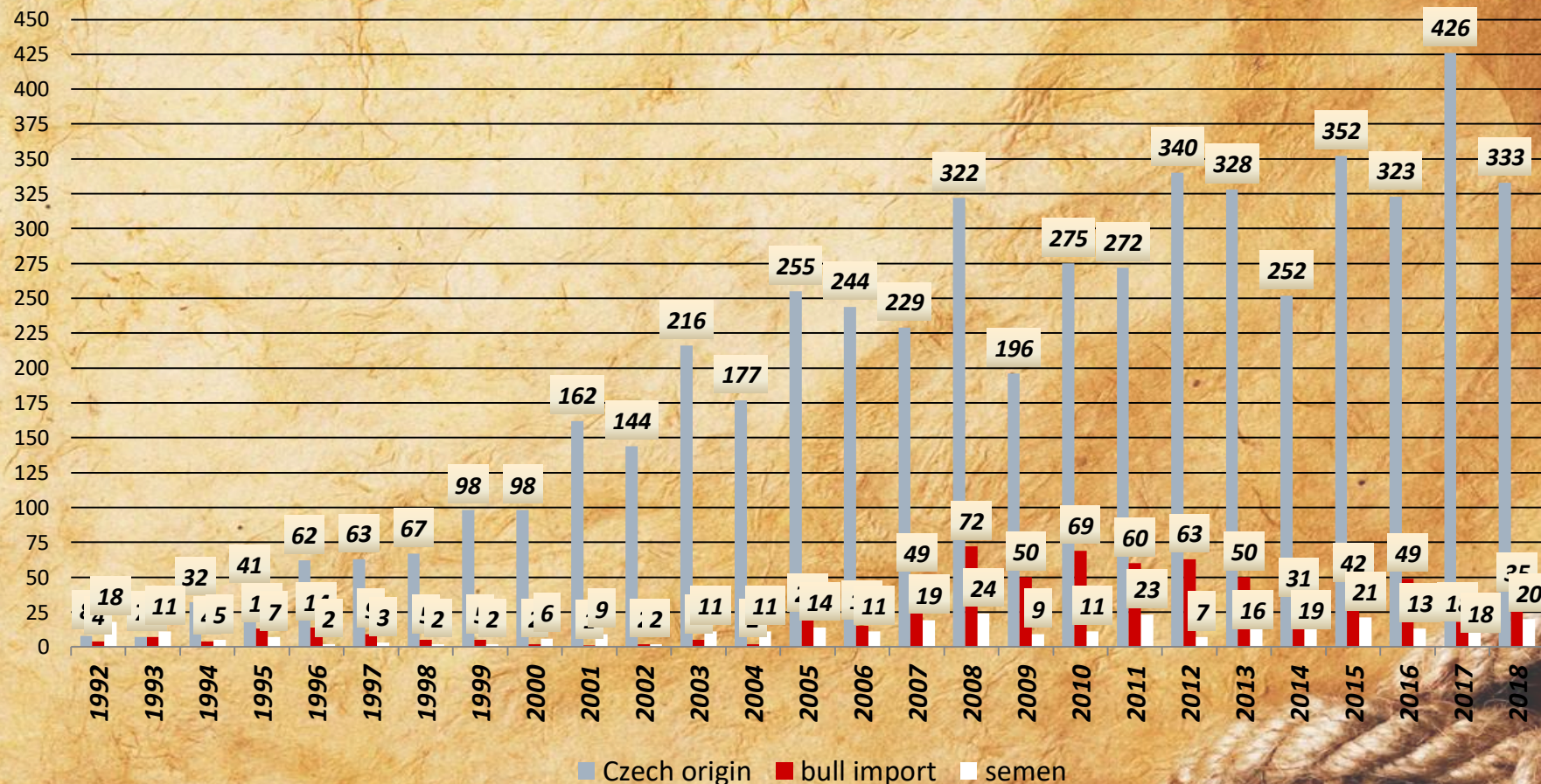
Weights of **males calves** in performance recording in 2010 - 2018



Weights of **females** calves in performance recording in 2010 - 2018



Charolais bulls selected for breeding in 1992 - 2018



Simagena show - Paris



Group of Czech charolais in Paris

The best Junior bull – Simagena 2019, Paris:
Czech bull **Démon Agrochyt PP** (sire: Japon SC)
Sold to Ireland to NCBC A.I. center

Czech national show Brno 2019



BLEDULKA z MEZIBOŘÍ

The next national show in Brno: **25. – 28. 4. 2021**
during Charolais Technical Congress 2021
www.charolais2021.com

Thank you for your attention!



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Ireland August 2019