

# EESTI JÕUDLUSKONTROLI AASTARAAMAT 2022

RESULTS OF ANIMAL RECORDING IN ESTONIA 2022

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## Eessõna

Kui Eestis võime olla uhked tõuaretuse ja jõudluskontrolli pikkade traditsioonide üle, siis nii nagu loomakasvatus üldiselt, on ka valdkonna organisatsioonid teinud läbi suuri muutusi. Tänapäevase organisatsiooni eelkäija, Jõudluskontrolli Keskus, loodi 1993. aastal. Täna, 30 aastat hiljem, on hea meel tõdeda, et tookord tehtud otsused ja võetud suunad on end õigustanud. Ajaloos on 30 aastat küll lühike periood, aga need 30 aastat on tõestanud, kui olulised on usaldusväärsed andmed ja andmete järjepidevus. Jõudluskontrolli süsteem on olnud heaks hüppelauaks, et käivitada põllumajandusloomade identifitseerimise süsteem või alustada loomapidajatele mõeldud toetustega. Tänapäeval on meil rõõm kogeda, et jõudluskontrolli andmebaas annab hea võimaluse registreerida loomadega toimunud veterinaarseid protseduure ning haigusi, mis omakorda võimaldab kokkuvõttes saada hea ülevaate karjatervisest ja loomade heaolust.

Oleme töötanud selle nimel, et jõudluskontroll aitaks loomapidajatel soovitud tulemusi saavutada ja seepärast ootame meiega koos kõigi huvilistega iga-aastaseid kokkuvõtteid, et neid siis analüüsida.

Jõudluskontrolli all olevate lehmade keskmine piimatoodang on suurenenud käesoleval sajandil igal aastal ehk 22 aastat järjest, kuid siinkohal on sobilik taaskord vaadata 30 aasta tagusesse aega. Kui 1993. aastal oli Eesti keskmine piimatoodang 3677 kg, siis see on suurenenud igal aastal, erandina vaid 1999. aastal langes keskmine piimatoodang võrrelduna eelmise aastaga, ja seejärel on tänaseni vaid suurenenud.

Mul on hea meel õnnitleda meie parimaid karjakasvatajaid! 2022. aasta parimaks piimakarjakasvatajaks valiti Leo Hansen (Härjanurme Mõis OÜ, Jõgeva maakond) ning parimaks lihavesikarjakasvatajaks Airi Külvet (Puutsa talu, Jõgeva maakond).

Väikseima somaatiliste rakkude arvuga piima tootsid eelmisel aastal:

- 3–10 aastalehmaga karjadest Sooluste Veis OÜ;
- 11–100 aastalehmaga karjadest Marelle Tombandi Soone talu;
- üle 100 aastalehmaga karjadest Osaühing Kaiu LT.

Oleme tänulikud igaühele, kes on panustanud käesoleva aastaraamatu valmimisse, sest tegelikult saavad siinsed tulemused alguse igapäevasest andmete registreerimisest farmis.

Head lugemist!



**Kaivo Ilves**

Eesti Põllumajandusloomade Jõudluskontrolli AS-i juhataja

## Foreword

While Estonia can be proud of its long tradition of breeding and performance recording, as for livestock production in general, organisations in the field have undergone a lot of changes. The predecessor of today's organisation, Jõudluskontrolli Keskus (*Estonian Animal Recording Centre*), was established in 1993. Today, 30 years later, it is gratifying to see that the decisions and the direction taken have paid off. Although 30 years is a short period in history, these years have proven the importance of reliable data and data consistency. The performance recording system has been a good stepping stone to launching a system for identifying farm animals or to start subsidies for livestock farmers. Today, we are pleased to see that the performance recording database provides a good opportunity to record veterinary procedures and diseases in livestock, which in turn provides a good overall picture of livestock health and welfare.

We have been working to ensure that performance recording helps livestock farmers achieve the results they want, and so we look forward to receiving, together with all interested parties, annual summaries to analyse.

The average milk production of cows under performance recording has increased every year this century, for 22 consecutive years, but it is appropriate to look back to 30 years ago. While the average milk production in Estonia was 3,677 kg in 1993, it has increased every year, with the exception of 1999, when average milk production fell compared to the previous year; since then, it has only increased.

I am delighted to congratulate our best livestock farmers! Leo Hansen (Härjanurme Mõis OÜ, Jõgeva County) was chosen as the best dairy farmer of 2022 and Airi Külvet (Puutsa Farm, Jõgeva County) as the best beef farmer of 2022.

The enterprises with the lowest number of somatic cells in milk last in last year were:

- herds of 3-10 cows per year from Soosaluste Veis OÜ;
- herds of 11-100 cows per year from Marelle Tombandi Soone talu;
- herds of 100+ cows per year by OÜ Kaiu LT.

We are grateful to everyone who has contributed to the production of this yearbook. The information provided here comes directly from the daily recording of data on farms.

Have a nice read!

**Kaivo Ilves**

Managing Director of Eesti Põllumajandusloomade Jõudluskontrolli AS

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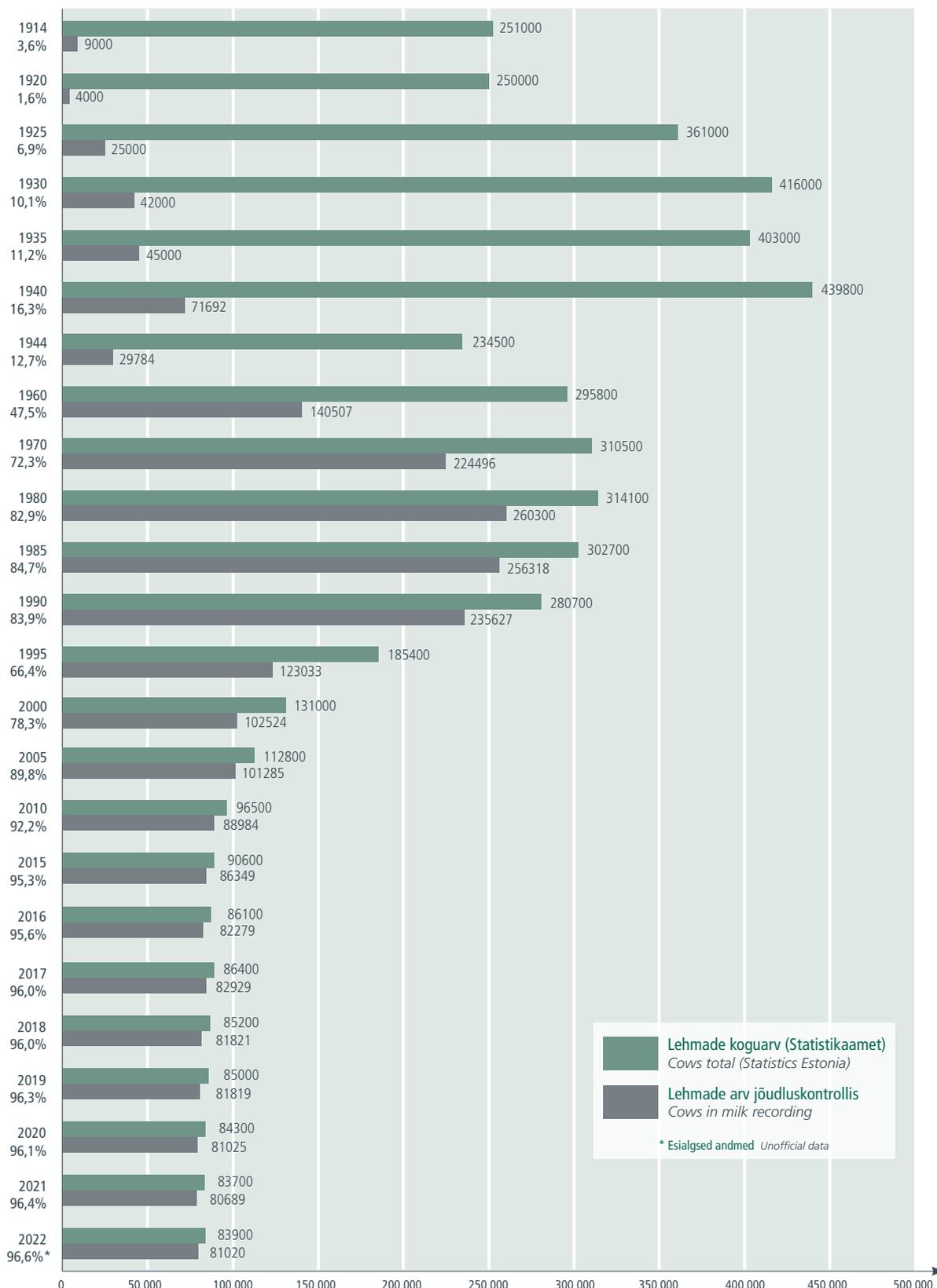
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# Piimaveiste jõudluskontrolli näitajad

## Results of milk recording

### 1. Veiste jõudluskontrolli dünaamika Eestis

Development of milk recording in Estonia



Lehmade koguarv (Statistikaamet)  
Cows total (Statistics Estonia)

Lehmade arv jõudluskontrollis  
Cows in milk recording

\* Esialgsete andmed Unofficial data

## 2. Aastalehmade arv tõugude viisi

Average no. of cows in milk recording by different breeds

| Aasta<br>Year | Aastalehmi Avg. no. of cows             |      |   |      |  |     |                           |     | Kokku<br>Total |
|---------------|---|------|---|------|--|-----|---------------------------|-----|----------------|
|               | Eesti punane (EPK)<br>Estonian Red (ER) |      | Eesti holstein (EHF)<br>Estonian Holstein (EHF) |      | Eesti maatõug (EK)<br>Estonian Native (EN) |     | Muud tõud<br>Other breeds |     |                |
|               | arv<br>no.                              | %    | arv<br>no.                                      | %    | arv<br>no.                                 | %   | arv<br>no.                | %   |                |
| 1965          | 116184                                  | 69,2 | 50750   | 30,2 | 877  | 0,5 |                           |     | 167811         |
| 1970          | 151100                                  | 68,7 | 67628   | 30,8 | 1131                                       | 0,5 |                           |     | 219867         |
| 1975          | 168053                                  | 66,0 | 85452   | 33,5 | 1198                                       | 0,5 |                           |     | 254703         |
| 1980          | 162153                                  | 61,8 | 99308   | 37,8 | 984  | 0,4 |                           |     | 262445         |
| 1985          | 146781                                  | 56,4 | 112643  | 43,3 | 945  | 0,4 |                           |     | 260369         |
| 1990          | 121125                                  | 49,1 | 125235  | 50,7 | 566  | 0,2 |                           |     | 246926         |
| 1995          | 49285                                   | 38,0 | 79767   | 61,5 | 555  | 0,4 |                           |     | 129607         |
| 2000          | 29875                                   | 29,3 | 71799   | 70,3 | 443  | 0,4 |                           |     | 102117         |
| 2005          | 26607                                   | 26,5 | 73261   | 73,0 | 537  | 0,5 |                           |     | 100405         |
| 2010          | 19724                                   | 22,3 | 67904   | 76,8 | 461  | 0,5 | 349                       | 0,4 | 88438          |
| 2015          | 17247                                   | 19,6 | 69772   | 79,4 | 484  | 0,6 | 341                       | 0,4 | 87844          |
| 2020          | 11297                                   | 13,5 | 68745   | 85,4 | 601  | 0,8 | 267                       | 0,3 | 80910          |
| 2021          | 10325                                   | 12,8 | 69351   | 86,1 | 637  | 0,8 | 276                       | 0,3 | 80589          |
| 2022          | 9541                                    | 11,9 | 69962   | 87,0 | 671  | 0,8 | 282                       | 0,4 | 80456          |

## 3. Karjade suurus ja arv

Size and number of herds in milk recording

| Karja suurus, lehma<br>Herd size | 1990             |              | 1995             |              | 2000             |              | 2005             |              | 2010             |              | 2015             |              | 2020             |              | 2022             |              |
|----------------------------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
|                                  | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              | Karjade<br>Herds |              |
|                                  | arv<br>no.       | %            |
| 1...2                            |                  |              | 871              | 29,8         | 676              | 21,1         | 407              | 20,0         | 78               | 8,4          | 62               | 9,6          | 20               | 4,6          | 10               | 2,7          |
| 3...4                            |                  |              | 615              | 21,1         | 567              | 17,7         | 235              | 11,5         | 53               | 5,7          | 24               | 3,7          | 15               | 3,4          | 9                | 2,4          |
| 5...6                            |                  |              | 301              | 10,3         | 408              | 12,7         | 170              | 8,3          | 65               | 7,0          | 19               | 2,9          | 13               | 3,0          | 9                | 2,4          |
| 7...8                            |                  |              | 205              | 7,0          | 307              | 9,6          | 182              | 8,9          | 47               | 5,0          | 28               | 4,3          | 13               | 3,0          | 7                | 1,9          |
| 9...10                           |                  |              | 136              | 4,7          | 215              | 6,7          | 128              | 6,3          | 45               | 4,8          | 24               | 3,7          | 11               | 2,5          | 7                | 1,9          |
| 11...50                          |                  |              | 291              | 10,0         | 693              | 21,6         | 585              | 28,7         | 350              | 37,6         | 226              | 34,9         | 130              | 29,9         | 104              | 28,0         |
| 51...100                         |                  |              | 127              | 4,3          | 99               | 3,1          | 91               | 4,5          | 90               | 9,7          | 83               | 12,8         | 70               | 16,1         | 57               | 15,4         |
| ≤100                             | <b>7</b>         | <b>2,1</b>   | <b>2546</b>      | <b>87,2</b>  | <b>2965</b>      | <b>92,3</b>  | <b>1798</b>      | <b>88,3</b>  | <b>728</b>       | <b>78,2</b>  | <b>466</b>       | <b>71,9</b>  | <b>272</b>       | <b>62,5</b>  | <b>203</b>       | <b>54,7</b>  |
| 101...300                        | 24               | 7,1          | 278              | 9,5          | 169              | 5,3          | 155              | 7,6          | 112              | 12,0         | 95               | 14,7         | 76               | 17,5         | 83               | 22,4         |
| 301...600                        | 107              | 31,5         | 74               | 2,5          | 57               | 1,8          | 62               | 3,0          | 66               | 7,1          | 55               | 8,5          | 54               | 12,4         | 53               | 14,3         |
| 601...900                        | 114              | 33,4         | 14               | 0,5          | 13               | 0,4          | 13               | 0,6          | 16               | 1,7          | 17               | 2,6          | 17               | 3,9          | 14               | 3,8          |
| 901...1200                       | 54               | 15,9         | 5                | 0,2          | 3                | 0,1          | 3                | 0,1          | 4                | 0,4          | 8                | 1,2          | 8                | 1,8          | 10               | 2,7          |
| >1200                            | 34               | 10,0         | 3                | 0,1          | 4                | 0,1          | 5                | 0,2          | 5                | 0,5          | 7                | 1,1          | 8                | 1,8          | 8                | 2,2          |
| <b>Kokku<br/>Total</b>           | <b>340</b>       | <b>100,0</b> | <b>2920</b>      | <b>100,0</b> | <b>3211</b>      | <b>100,0</b> | <b>2036</b>      | <b>100,0</b> | <b>931</b>       | <b>100,0</b> | <b>648</b>       | <b>100,0</b> | <b>435</b>       | <b>100,0</b> | <b>371</b>       | <b>100,0</b> |

#### 4. Toodang aastalehma kohta tõugude viisi

Productivity of Estonian dairy breeds

| Aasta<br>Year | Eesti punane<br>Estonian Red |                   |                        | Eesti holstein<br>Estonian Holstein |                   |                        | Eesti maatõug<br>Estonian Native |                   |                        | Tõugude keskmine<br>Breeds Average |                   |                        |     |      |     |       |      |     |      |     |
|---------------|------------------------------|-------------------|------------------------|-------------------------------------|-------------------|------------------------|----------------------------------|-------------------|------------------------|------------------------------------|-------------------|------------------------|-----|------|-----|-------|------|-----|------|-----|
|               | piima<br>milk<br>kg          | rasva<br>fat<br>% | valku<br>protein<br>kg | piima<br>milk<br>kg                 | rasva<br>fat<br>% | valku<br>protein<br>kg | piima<br>milk<br>kg              | rasva<br>fat<br>% | valku<br>protein<br>kg | piima<br>milk<br>kg                | rasva<br>fat<br>% | valku<br>protein<br>kg |     |      |     |       |      |     |      |     |
| 1965          | 2976                         | 3,69              | 110                    | 3280                                | 3,60              | 118                    | 2948                             | 4,14              | 122                    | 3068                               | 3,67              | 113                    |     |      |     |       |      |     |      |     |
| 1970          | 3167                         | 3,72              | 118                    | 3457                                | 3,65              | 126                    | 3003                             | 4,28              | 129                    | 3256                               | 3,69              | 120                    |     |      |     |       |      |     |      |     |
| 1975          | 3458                         | 3,83              | 132                    | 3754                                | 3,75              | 141                    | 3168                             | 4,36              | 138                    | 3556                               | 3,80              | 135                    |     |      |     |       |      |     |      |     |
| 1980          | 3526                         | 3,94              | 139                    | 3791                                | 3,81              | 145                    | 3394                             | 4,27              | 145                    | 3626                               | 3,89              | 141                    |     |      |     |       |      |     |      |     |
| 1985          | 3853                         | 4,10              | 158                    | 4332                                | 3,94              | 170                    | 3631                             | 4,47              | 162                    | 4059                               | 4,03              | 163                    |     |      |     |       |      |     |      |     |
| 1990          | 3869                         | 4,17              | 161                    | 3,30                                | 133               | 4586                   | 4,01                             | 184               | 3,15                   | 153                                | 3430              | 4,43                   | 152 | 3,32 | 107 | 4232  | 4,09 | 173 | 3,22 | 143 |
| 1995          | 3272                         | 4,17              | 136                    | 3,23                                | 106               | 3915                   | 4,03                             | 157               | 3,14                   | 123                                | 2897              | 4,51                   | 130 | 3,37 | 98  | 3666  | 4,08 | 149 | 3,17 | 116 |
| 2000          | 4441                         | 4,39              | 195                    | 3,36                                | 149               | 5182                   | 4,20                             | 220               | 3,25                   | 168                                | 3936              | 4,78                   | 188 | 3,49 | 137 | 4960  | 4,29 | 213 | 3,28 | 163 |
| 2005          | 5962                         | 4,32              | 258                    | 3,42                                | 204               | 6722                   | 4,17                             | 280               | 3,31                   | 223                                | 4524              | 4,59                   | 207 | 3,44 | 156 | 6509  | 4,21 | 274 | 3,34 | 217 |
| 2010          | 7152                         | 4,24              | 303                    | 3,43                                | 245               | 7778                   | 4,07                             | 317               | 3,35                   | 260                                | 4850              | 4,55                   | 221 | 3,38 | 164 | 7613  | 4,11 | 313 | 3,36 | 256 |
| 2015          | 8105                         | 4,12              | 334                    | 3,44                                | 279               | 9082                   | 3,95                             | 359               | 3,37                   | 306                                | 4573              | 4,59                   | 210 | 3,43 | 157 | 8851  | 3,98 | 353 | 3,38 | 299 |
| 2020          | 9131                         | 4,08              | 373                    | 3,49                                | 318               | 10677                  | 3,85                             | 412               | 3,38                   | 361                                | 4690              | 4,58                   | 215 | 3,49 | 164 | 10400 | 3,89 | 404 | 3,39 | 353 |
| 2021          | 9117                         | 4,09              | 373                    | 3,50                                | 319               | 10761                  | 3,87                             | 416               | 3,38                   | 364                                | 4547              | 4,60                   | 209 | 3,52 | 160 | 10484 | 3,90 | 409 | 3,40 | 356 |
| 2022          | 9235                         | 4,14              | 382                    | 3,51                                | 324               | 10896                  | 3,92                             | 427               | 3,39                   | 370                                | 4489              | 4,56                   | 205 | 3,47 | 156 | 10628 | 3,95 | 419 | 3,41 | 362 |

#### 5. 305 päeva laktatsiooni toodang tõugude viisi

305-d lactation yield by breeds

| Tõug<br>Breed                       | Laktatsioon<br>Lactation | Lehmi<br>Cows | Piima<br>Milk<br>kg | Rasva<br>Fat<br>% | Valgu<br>Protein<br>kg | R+V<br>F+P<br>kg |
|-------------------------------------|--------------------------|---------------|---------------------|-------------------|------------------------|------------------|
| Eesti punane<br>Estonian Red        | 1.                       | 2278          | 8091                | 4,08              | 330                    | 614              |
|                                     | 2.                       | 2117          | 9473                | 4,09              | 387                    | 719              |
|                                     | ≥3                       | 3390          | 9914                | 4,04              | 401                    | 741              |
|                                     | <b>Kokku Total</b>       | <b>7785</b>   | <b>9261</b>         | <b>4,07</b>       | <b>377</b>             | <b>698</b>       |
| Eesti holstein<br>Estonian Holstein | 1.                       | 21830         | 9447                | 3,88              | 367                    | 688              |
|                                     | 2.                       | 16533         | 11309               | 3,82              | 432                    | 813              |
|                                     | ≥3                       | 19433         | 11390               | 3,85              | 438                    | 817              |
|                                     | <b>Kokku Total</b>       | <b>57796</b>  | <b>10633</b>        | <b>3,85</b>       | <b>409</b>             | <b>767</b>       |
| Eesti maatõug<br>Estonian Native    | 1.                       | 139           | 4766                | 4,49              | 214                    | 379              |
|                                     | 2.                       | 99            | 5052                | 4,59              | 232                    | 408              |
|                                     | ≥3                       | 211           | 5423                | 4,50              | 244                    | 430              |
|                                     | <b>Kokku Total</b>       | <b>449</b>    | <b>5138</b>         | <b>4,52</b>       | <b>232</b>             | <b>409</b>       |
| Muud tõud<br>Other breeds           | 1.                       | 58            | 6442                | 4,06              | 262                    | 487              |
|                                     | 2.                       | 60            | 6422                | 3,72              | 239                    | 459              |
|                                     | ≥3                       | 84            | 6680                | 4,12              | 275                    | 501              |
|                                     | <b>Kokku Total</b>       | <b>202</b>    | <b>6535</b>         | <b>3,99</b>       | <b>261</b>             | <b>484</b>       |
| Tõud kokku<br>All breeds            | 1.                       | 24305         | 9286                | 3,90              | 362                    | 678              |
|                                     | 2.                       | 18809         | 11054               | 3,84              | 425                    | 799              |
|                                     | ≥3                       | 23118         | 11102               | 3,88              | 430                    | 801              |
|                                     | <b>Kokku Total</b>       | <b>66232</b>  | <b>10422</b>        | <b>3,88</b>       | <b>404</b>             | <b>755</b>       |

## 6. Karja suurus ja toodangu näitajad

Milk recording results by herd size

| Karja suurus<br>31. dets<br>Herd size, cows | Karjade<br>Herds |              | Aastalehmi<br>Cows |              | Keskmine<br>karja suurus<br>Average<br>herd size | Piima aasta-<br>lehma kohta<br>Milk per cow | Piima kogutoodang<br>Total milk production |              | Sündis vasikaid<br>Calves born |              |
|---|------------------|--------------|--------------------|--------------|--|---|--|--------------|--------------------------------|--------------|
|   | arv no.          | %            | arv no.            | %            |  |   | t  | %            | arv no.                        | %            |
| 1–10  | 42               | 11,3         | 244                | 0,3          | 5,8  | 5425  | 1324                                       | 0,2          | 167                            | 0,2          |
| 11–50                                       | 104              | 28,0         | 2918               | 3,6          | 28,1   | 6684  | 19506                                      | 2,3          | 2408                           | 2,9          |
| 51–100                                      | 57               | 15,4         | 4188               | 5,2          | 73,5   | 8584  | 35946                                      | 4,2          | 3769                           | 4,5          |
| 101–300                                     | 83               | 22,4         | 14939              | 18,6         | 180,0  | 9894  | 147815                                     | 17,3         | 14737                          | 17,8         |
| 301–600                                     | 53               | 14,3         | 23963              | 29,8         | 452,1  | 10672                                       | 255745                                     | 29,9         | 24999                          | 30,1         |
| 601–900                                     | 14               | 3,8          | 10420              | 13,0         | 744,3  | 11575                                       | 120610                                     | 14,1         | 11105                          | 13,4         |
| 901–1200                                    | 10               | 2,7          | 10113              | 12,6         | 1011,3   | 10926                                       | 110493                                     | 12,9         | 10803                          | 13,0         |
| >1201                                       | 8                | 2,2          | 13671              | 17,0         | 1708,8   | 11972                                       | 163663                                     | 19,1         | 15026                          | 18,1         |
| <b>Kokku Total</b>                          | <b>371</b>       | <b>100,0</b> | <b>80456</b>       | <b>100,0</b> | <b>216,9</b>                                     | <b>10628</b>                                | <b>855101</b>                              | <b>100,0</b> | <b>83014</b>                   | <b>100,0</b> |

## 7. 305 päeva laktatsiooni keskmine toodang laktatsiooni algusaasta järgi

Average 305-d lactation yield by beginning year of lactation

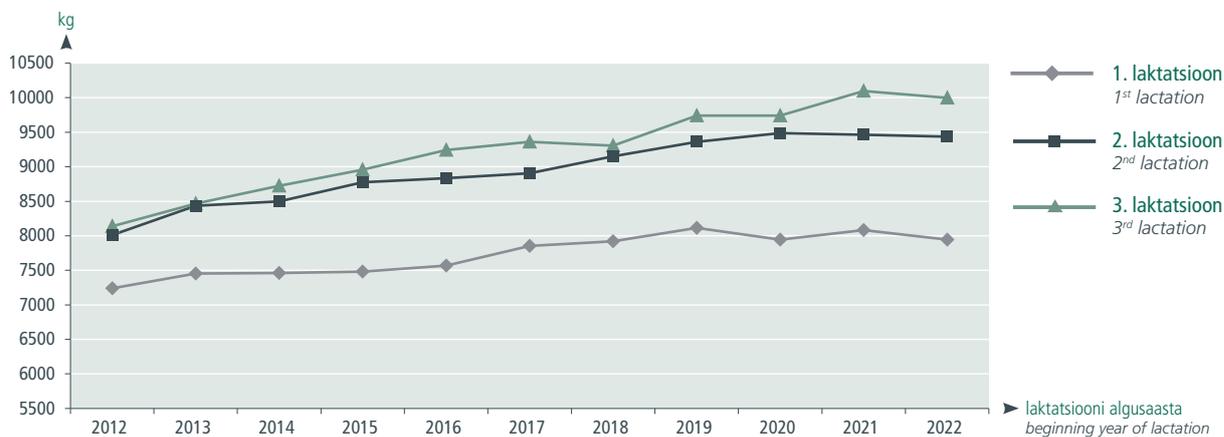
| Tõug<br>Breed | Aasta<br>Year | 1. laktatsioon<br>1 <sup>st</sup> lactation |                     |                    |                        | 2. laktatsioon<br>2 <sup>nd</sup> lactation |                     |                    |                        | 3. laktatsioon<br>3 <sup>rd</sup> lactation |                     |                    |                        |
|---------------|---------------|---|---------------------|--------------------|------------------------|---|---------------------|--------------------|------------------------|---|---------------------|--------------------|------------------------|
|               |               | lakt. arv<br>no. of lact.                   | piima<br>milk<br>kg | rasva<br>fat<br>kg | valku<br>protein<br>kg | lakt. arv<br>no. of lact.                   | piima<br>milk<br>kg | rasva<br>fat<br>kg | valku<br>protein<br>kg | lakt. arv<br>no. of lact.                   | piima<br>milk<br>kg | rasva<br>fat<br>kg | valku<br>protein<br>kg |
| EPK<br>ER     | 2011          | 4642  | 7023                | 289                | 240                    | 3905  | 7707                | 318                | 264                    | 2745  | 7969                | 331                | 271                    |
|               | 2012          | 4855  | 7242                | 294                | 249                    | 3624  | 8013                | 325                | 275                    | 2775  | 8138                | 333                | 276                    |
|               | 2013          | 4836  | 7454                | 304                | 257                    | 3760  | 8434                | 341                | 290                    | 2589  | 8465                | 344                | 287                    |
|               | 2014          | 4772  | 7462                | 303                | 256                    | 3783  | 8498                | 345                | 291                    | 2550  | 8724                | 357                | 296                    |
|               | 2015          | 4176  | 7481                | 305                | 257                    | 3604  | 8775                | 353                | 301                    | 2581  | 8959                | 364                | 305                    |
|               | 2016          | 3736  | 7568                | 306                | 259                    | 3155  | 8833                | 357                | 304                    | 2419  | 9244                | 373                | 314                    |
|               | 2017          | 3507  | 7855                | 315                | 269                    | 2755  | 8907                | 357                | 306                    | 2201  | 9361                | 376                | 319                    |
|               | 2018          | 3151  | 7919                | 320                | 274                    | 2658  | 9152                | 365                | 316                    | 1893  | 9305                | 374                | 319                    |
|               | 2019          | 2887  | 8115                | 328                | 281                    | 2340  | 9362                | 377                | 324                    | 1766  | 9740                | 392                | 333                    |
|               | 2020          | 2853  | 7943                | 322                | 276                    | 2142  | 9488                | 382                | 330                    | 1545  | 9742                | 395                | 335                    |
|               | 2021          | 2271  | 8084                | 330                | 284                    | 2273  | 9465                | 385                | 331                    | 1484  | 10097               | 409                | 349                    |
| 2022          | 641           | 7946  | 326                 | 280                | 476                    | 9437  | 386                 | 329                | 408                    | 9998  | 405                 | 343                |                        |
| EHF<br>EHF    | 2011          | 19655                                       | 7618                | 301                | 255                    | 15153                                       | 8571                | 338                | 288                    | 9971  | 8727                | 347                | 289                    |
|               | 2012          | 21195                                       | 7883                | 308                | 263                    | 14639                                       | 8903                | 349                | 297                    | 10066                                       | 9003                | 354                | 298                    |
|               | 2013          | 21230                                       | 8210                | 320                | 274                    | 15568                                       | 9420                | 366                | 314                    | 9811  | 9509                | 373                | 314                    |
|               | 2014          | 21552                                       | 8244                | 320                | 275                    | 15257                                       | 9552                | 371                | 317                    | 9480  | 9707                | 381                | 320                    |
|               | 2015          | 20116                                       | 8461                | 329                | 282                    | 15146                                       | 9957                | 385                | 331                    | 9191  | 10154               | 396                | 335                    |
|               | 2016          | 20688                                       | 8766                | 340                | 292                    | 14733                                       | 10119               | 393                | 337                    | 9480  | 10424               | 408                | 344                    |
|               | 2017          | 20296                                       | 8993                | 343                | 300                    | 15442                                       | 10482               | 399                | 350                    | 9587  | 10738               | 413                | 356                    |
|               | 2018          | 20841                                       | 9165                | 346                | 308                    | 14856                                       | 10673               | 402                | 358                    | 9855  | 10865               | 416                | 363                    |
|               | 2019          | 21635                                       | 9454                | 361                | 319                    | 15148                                       | 10971               | 412                | 367                    | 9216  | 11247               | 428                | 373                    |
|               | 2020          | 22335                                       | 9508                | 363                | 320                    | 16406                                       | 11199               | 423                | 376                    | 9570  | 11300               | 429                | 375                    |
|               | 2021          | 21679                                       | 9442                | 365                | 320                    | 16838                                       | 11253               | 429                | 379                    | 10447                                       | 11559               | 443                | 386                    |
| 2022          | 6217          | 9353  | 368                 | 318                | 3956                   | 11382                                       | 436                 | 382                | 2522                   | 11729                                       | 453                 | 389                |                        |
| EK<br>EN      | 2011          | 97  | 4756                | 215                | 161                    | 95  | 4907                | 219                | 166                    | 39  | 5142                | 230                | 174                    |
|               | 2012          | 78  | 4504                | 209                | 154                    | 78  | 5170                | 237                | 177                    | 60  | 5248                | 237                | 179                    |
|               | 2013          | 75  | 4766                | 218                | 162                    | 72  | 5013                | 228                | 172                    | 66  | 5385                | 239                | 182                    |
|               | 2014          | 124   | 4572                | 210                | 153                    | 58  | 5077                | 233                | 171                    | 59  | 5390                | 242                | 182                    |
|               | 2015          | 106   | 4579                | 208                | 155                    | 101   | 5189                | 236                | 174                    | 44  | 5116                | 235                | 173                    |
|               | 2016          | 98  | 4505                | 204                | 152                    | 87  | 5463                | 244                | 185                    | 66  | 5438                | 245                | 182                    |
|               | 2017          | 113   | 4232                | 196                | 144                    | 77  | 5057                | 232                | 173                    | 71  | 5957                | 269                | 203                    |
|               | 2018          | 126   | 4703                | 218                | 161                    | 106   | 4773                | 221                | 163                    | 76  | 5201                | 241                | 178                    |
|               | 2019          | 128   | 4594                | 205                | 158                    | 94  | 5232                | 243                | 184                    | 68  | 5156                | 235                | 178                    |
|               | 2020          | 120   | 4505                | 205                | 155                    | 117   | 5308                | 242                | 183                    | 67  | 5392                | 257                | 188                    |
|               | 2021          | 142   | 4698                | 212                | 163                    | 101   | 5077                | 235                | 177                    | 91  | 5428                | 245                | 186                    |
| 2022          | 45            | 4655  | 206                 | 161                | 29                     | 4676  | 219                 | 162                | 14                     | 6047  | 269                 | 204                |                        |

## 8. 305 päeva laktatsiooni piimatoodang laktatsiooni algusaasta järgi

Average 305-d lactation milk yield by beginning year of lactation

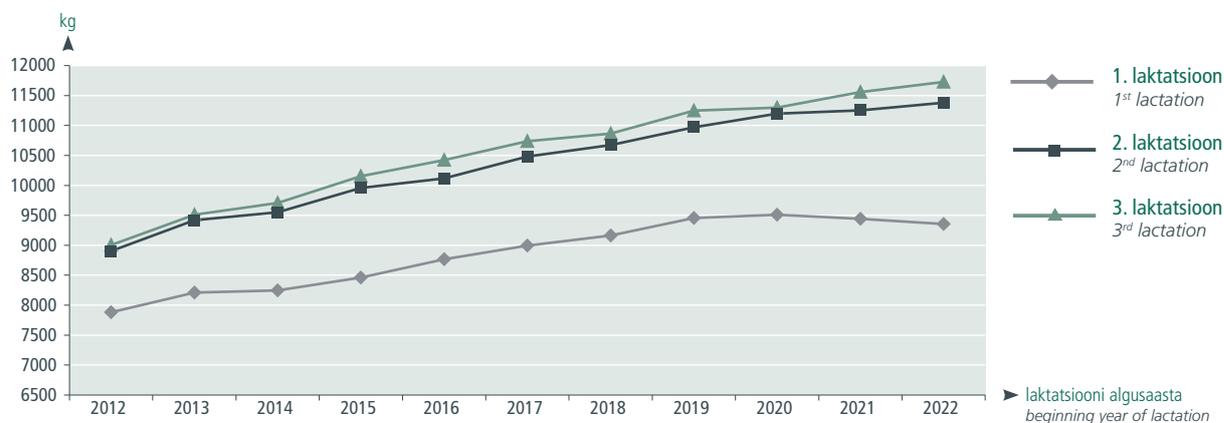
### Eesti punane

Estonian Red



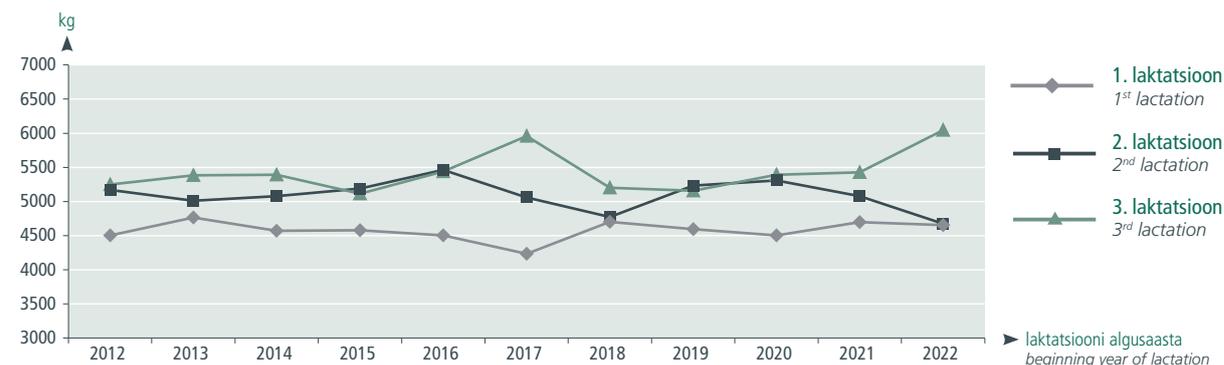
### Eesti holstein

Estonian Holstein



### Eesti maatoõug

Estonian Native



## 9. Karjade jagunemine piimatoodangu järgi aastalehma kohta

Distribution of herds by annual average milk yield per cow

| Aastalehmi Cows |                   | ≤5000 | 5001-6000 | 6001-7000 | 7001-8000 | 8001-9000 | 9001-10000 | 10001-11000 | 11001-12000 | >12000 |
|-----------------|-------------------|-------|-----------|-----------|-----------|-----------|------------|-------------|-------------|--------|
| 1-7             | karjade arv herds | 18    | 4         | 4         | 2         | 2         |            | 1           |             |        |
|                 | SRA SCC           | 431   | 180       | 578       | 353       | 667       | 0          | 578         | 0           | 0      |
| 8-20            | karjade arv herds | 15    | 6         | 13        | 5         | 6         | 1          | 2           |             |        |
|                 | SRA SCC           | 421   | 402       | 320       | 291       | 283       | 95         | 197         | 0           | 0      |
| 21-50           | karjade arv herds | 11    | 12        | 10        | 13        | 11        | 8          | 3           | 1           |        |
|                 | SRA SCC           | 537   | 374       | 333       | 352       | 294       | 318        | 237         | 107         | 0      |
| 51-100          | karjade arv herds | 4     | 5         | 6         | 8         | 11        | 8          | 9           | 4           | 3      |
|                 | SRA SCC           | 442   | 357       | 341       | 337       | 329       | 267        | 198         | 251         | 223    |
| >101            | karjade arv herds | 2     | 2         | 3         | 9         | 16        | 24         | 53          | 28          | 28     |
|                 | SRA SCC           | 668   | 440       | 374       | 283       | 292       | 245        | 214         | 210         | 197    |
| Kokku Total     | karjade arv herds | 50    | 29        | 36        | 37        | 46        | 41         | 68          | 33          | 31     |
|                 | SRA SCC           | 462   | 355       | 360       | 324       | 317       | 260        | 218         | 212         | 199    |

## 10. Lehmade jagunemine 305 päeva laktatsiooni piimatoodangu järgi

Distribution of cows by 305-d lactation milk yield

| Tõug Breed  |            | ≤4000 | 4001-5000 | 5001-6000 | 6001-7000 | 7001-8000 | 8001-9000 | 9001-10000 | 10001-11000 | 11001-12000 | >12000 |
|-------------|------------|-------|-----------|-----------|-----------|-----------|-----------|------------|-------------|-------------|--------|
| EPK ER      | lehmi cows | 64    | 136       | 338       | 648       | 1140      | 1358      | 1334       | 1046        | 764         | 957    |
|             | %          | 0,8   | 1,7       | 4,3       | 8,3       | 14,6      | 17,4      | 17,1       | 13,4        | 9,8         | 12,3   |
| EHF EHF     | lehmi cows | 92    | 299       | 875       | 1925      | 4062      | 7078      | 9233       | 9742        | 8725        | 15765  |
|             | %          | 0,2   | 0,5       | 1,5       | 3,3       | 7,0       | 12,2      | 16,0       | 16,9        | 15,1        | 27,3   |
| EK EN       | lehmi cows | 83    | 122       | 134       | 72        | 25        | 10        | 3          |             |             |        |
|             | %          | 18,5  | 27,2      | 29,8      | 16,0      | 5,6       | 2,2       | 0,7        |             |             |        |
| Muud Other  | lehmi cows | 22    | 34        | 40        | 29        | 29        | 21        | 11         | 7           | 3           | 6      |
|             | %          | 10,9  | 16,8      | 19,8      | 14,4      | 14,4      | 10,4      | 5,4        | 3,5         | 1,5         | 3,0    |
| Kokku Total | lehmi cows | 261   | 591       | 1387      | 2674      | 5256      | 8467      | 10581      | 10795       | 9492        | 16728  |
|             | %          | 0,4   | 0,9       | 2,1       | 4,0       | 7,9       | 12,8      | 16,0       | 16,3        | 14,3        | 25,3   |

## 11. Lehmade jagunemine 305 päeva laktatsiooni rasva- ja valgutoodangu järgi

Distribution of cows by 305-d lactation fat and protein yield

| Tõug Breed  |            | ≤300 | 301-400 | 401-500 | 501-600 | 601-700 | 701-800 | 801-900 | >900  |
|-------------|------------|------|---------|---------|---------|---------|---------|---------|-------|
| EPK ER      | lehmi cows | 56   | 191     | 588     | 1316    | 1894    | 1727    | 1133    | 880   |
|             | %          | 0,7  | 2,5     | 7,6     | 16,9    | 24,3    | 22,2    | 14,6    | 11,3  |
| EHF EHF     | lehmi cows | 85   | 549     | 1823    | 5362    | 11961   | 14618   | 12033   | 11365 |
|             | %          | 0,1  | 0,9     | 3,2     | 9,3     | 20,7    | 25,3    | 20,8    | 19,7  |
| EK EN       | lehmi cows | 61   | 137     | 171     | 60      | 17      | 3       |         |       |
|             | %          | 13,6 | 30,5    | 38,1    | 13,4    | 3,8     | 0,7     |         |       |
| Muud Other  | lehmi cows | 23   | 53      | 50      | 30      | 21      | 14      | 4       | 7     |
|             | %          | 11,4 | 26,2    | 24,8    | 14,9    | 10,4    | 6,9     | 2,0     | 3,5   |
| Kokku Total | lehmi cows | 225  | 930     | 2632    | 6768    | 13893   | 16362   | 13170   | 12252 |
|             | %          | 0,3  | 1,4     | 4,0     | 10,2    | 21,0    | 24,7    | 19,9    | 18,5  |

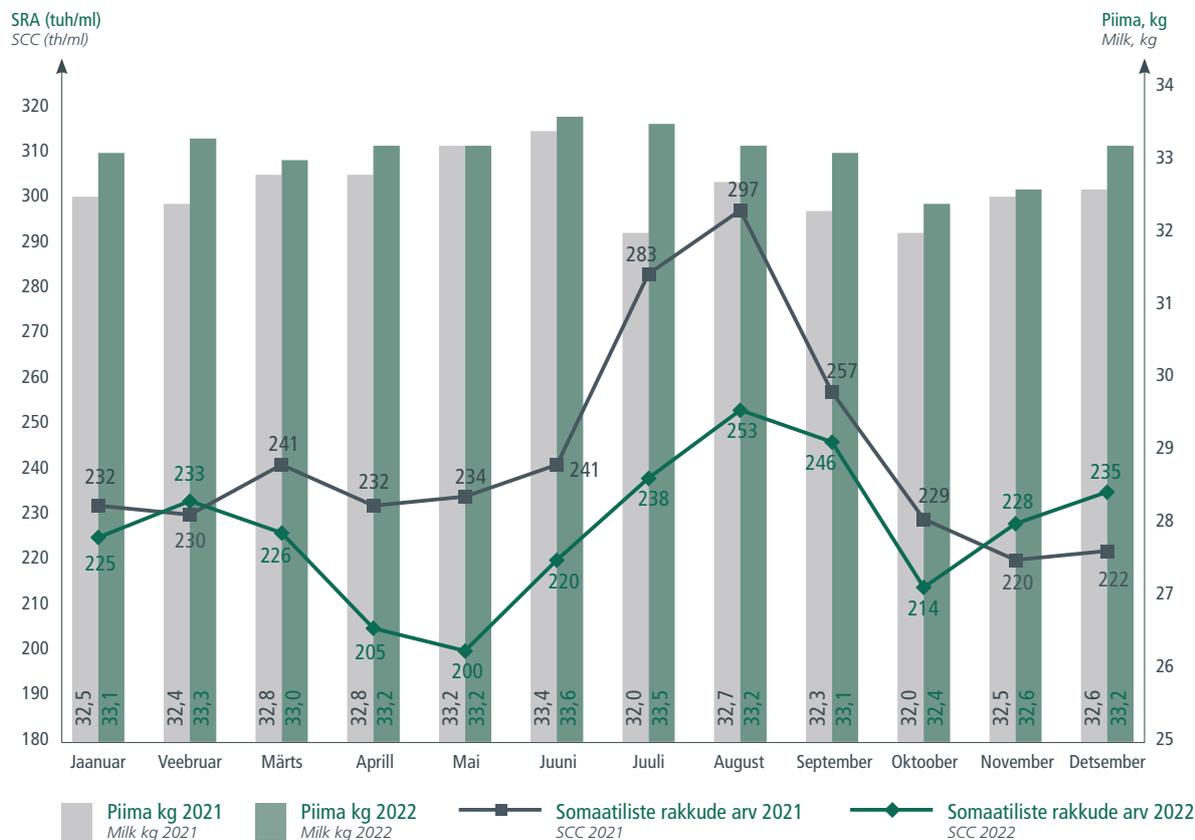
## 12. 305 päeva laktatsiooni toodang sõltuvalt poegimiskuust

305-d lactation yield by month of calving

|  | Poegimise aeg<br>Calving time | Lehmade<br>Cows |         | Piima<br>Milk |       | Rasva<br>Fat |      | Valku<br>Protein |      |     |
|--|-------------------------------|-----------------|---------|---------------|-------|--------------|------|------------------|------|-----|
|  |                               | arv no.         | %       | kg            | %     | kg           | %    | kg               |      |     |
| 1. laktatsioon<br>1 <sup>st</sup> lactation                            | 2021                          | märts           | 1837    | 7,7           | 9262  | 3,84         | 356  | 3,38             | 313  |     |
|  |                               | aprill          | 1735    | 7,3           | 9298  | 3,85         | 358  | 3,39             | 315  |     |
|  |                               | mai             | 1990    | 8,4           | 9318  | 3,88         | 362  | 3,40             | 317  |     |
|  |                               | juuni           | 1983    | 8,3           | 9214  | 3,89         | 358  | 3,40             | 313  |     |
|  |                               | juuli           | 2007    | 8,4           | 8983  | 3,95         | 355  | 3,44             | 309  |     |
|  |                               | august          | 1891    | 8,0           | 9177  | 3,97         | 364  | 3,43             | 315  |     |
|  |                               | september       | 2034    | 8,6           | 9261  | 3,93         | 364  | 3,41             | 316  |     |
|  |                               | oktoober        | 1839    | 7,7           | 9410  | 3,88         | 365  | 3,39             | 319  |     |
|  |                               | november        | 2145    | 9,0           | 9474  | 3,88         | 368  | 3,40             | 322  |     |
|  |                               | detsember       | 2129    | 9,0           | 9378  | 3,87         | 363  | 3,39             | 318  |     |
| 2022   | jaanuar                       | 2361            | 9,9     | 9291          | 3,92  | 364          | 3,39 | 315              |      |     |
|  | veebuar                       | 1807            | 7,6     | 9279          | 3,96  | 367          | 3,41 | 316              |      |     |
| 2. laktatsioon<br>2 <sup>nd</sup> lactation                            | 2021                          | märts           | 1495    | 8,0           | 10898 | 3,80         | 414  | 3,36             | 366  |     |
|  |                               | aprill          | 1476    | 7,9           | 11003 | 3,81         | 419  | 3,36             | 370  |     |
|  |                               | mai             | 1636    | 8,8           | 11136 | 3,79         | 422  | 3,37             | 375  |     |
|  |                               | juuni           | 1731    | 9,3           | 10896 | 3,81         | 415  | 3,39             | 369  |     |
|  |                               | juuli           | 1640    | 8,8           | 10687 | 3,86         | 413  | 3,43             | 367  |     |
|  |                               | august          | 1487    | 8,0           | 10894 | 3,88         | 423  | 3,42             | 373  |     |
|  |                               | september       | 1391    | 7,5           | 10958 | 3,94         | 432  | 3,42             | 375  |     |
|  |                               | oktoober        | 1462    | 7,9           | 11175 | 3,87         | 433  | 3,38             | 378  |     |
|  |                               | november        | 1593    | 8,6           | 11254 | 3,84         | 432  | 3,38             | 380  |     |
|  |                               | detsember       | 1747    | 9,4           | 11181 | 3,84         | 429  | 3,36             | 376  |     |
| 2022   | jaanuar                       | 1691            | 9,1     | 11242         | 3,86  | 434          | 3,36 | 378              |      |     |
|  | veebuar                       | 1245            | 6,7     | 11330         | 3,84  | 435          | 3,35 | 380              |      |     |
| 3. laktatsioon<br>ja vanemad<br>3 <sup>rd</sup> lactation<br>and older | 2021                          | märts           | 1457    | 6,4           | 10769 | 3,86         | 416  | 3,32             | 357  |     |
|  |                               | aprill          | 1321    | 5,8           | 10807 | 3,88         | 419  | 3,32             | 359  |     |
|  |                               | mai             | 1715    | 7,5           | 10788 | 3,87         | 418  | 3,34             | 360  |     |
|  |                               | juuni           | 2029    | 8,9           | 10732 | 3,83         | 411  | 3,34             | 358  |     |
|  |                               | juuli           | 2152    | 9,4           | 10596 | 3,89         | 412  | 3,40             | 360  |     |
|  |                               | august          | 2009    | 8,8           | 10861 | 3,90         | 424  | 3,39             | 368  |     |
|  |                               | september       | 1945    | 8,5           | 11164 | 3,91         | 436  | 3,37             | 376  |     |
|  |                               | oktoober        | 2090    | 9,1           | 11379 | 3,88         | 442  | 3,34             | 380  |     |
|  |                               | november        | 2174    | 9,5           | 11457 | 3,85         | 441  | 3,33             | 381  |     |
|  |                               | detsember       | 2201    | 9,6           | 11539 | 3,87         | 447  | 3,31             | 382  |     |
|  |                               | 2022            | jaanuar | 2133          | 9,3   | 11392        | 3,89 | 443              | 3,32 | 378 |
|  |                               |                 | veebuar | 1623          | 7,1   | 11464        | 3,87 | 444              | 3,31 | 380 |

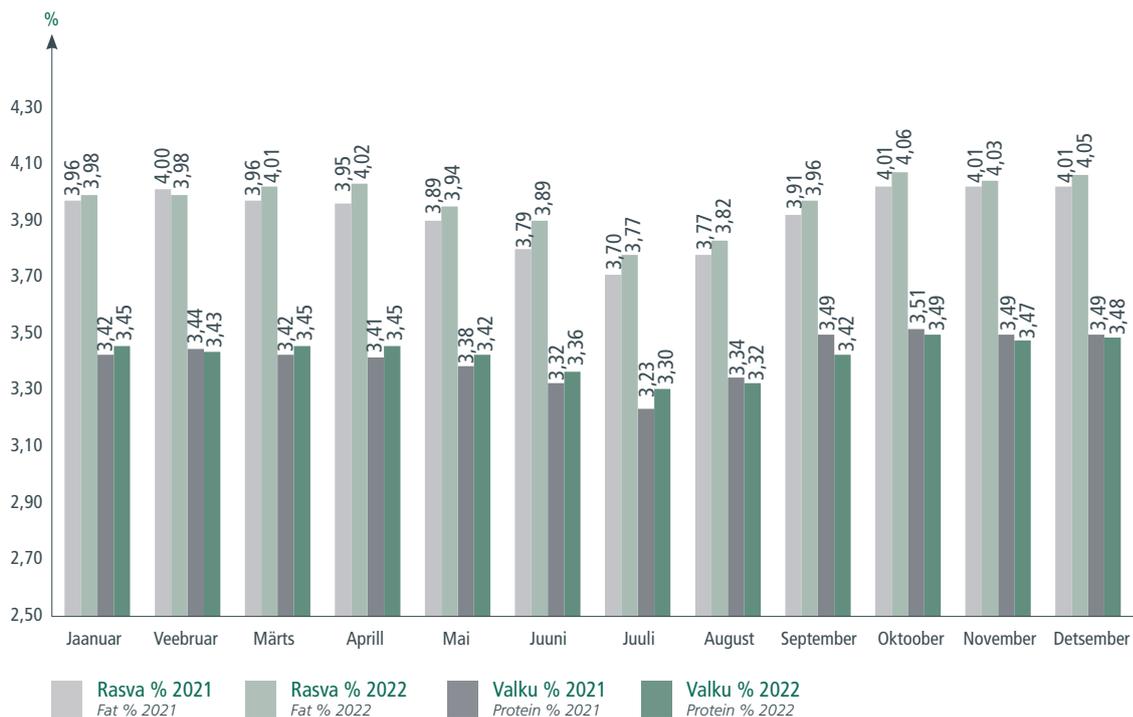
### 13. Kontrollpäeva piimatoodang ja soomaatiliste rakkude arv tuh/ml

Milk per cow and SCC/ml on test day



### 14. Kontrollpäeva piima rasva- ja valgusisaldus

Fat and protein content of milk on test day



## 15. Veiste kunstlik seemendus ning tiinestumine jõudluskontrollikarjades 2022. a

Artificial insemination and non-return rate in milk recording herds

|   | Eesti punane<br><i>Estonian Red</i> |                            |                       | Eesti holstein<br><i>Estonian Holstein</i> |                            |                       | Eesti maotõug<br><i>Estonian Native</i> |                            |                       | Tõud kokku<br><i>All breeds</i> |                            |                       |
|---|-------------------------------------|----------------------------|-----------------------|--|----------------------------|-----------------------|---|----------------------------|-----------------------|---------------------------------|----------------------------|-----------------------|
|   | lehmad<br><i>cows</i>               | lehmikud<br><i>heifers</i> | kokku<br><i>total</i> | lehmad<br><i>cows</i>                      | lehmikud<br><i>heifers</i> | kokku<br><i>total</i> | lehmad<br><i>cows</i>                   | lehmikud<br><i>heifers</i> | kokku<br><i>total</i> | lehmad<br><i>cows</i>           | lehmikud<br><i>heifers</i> | kokku<br><i>total</i> |
| Seemendatud veiseid<br><i>No. of inseminated cattle</i>                         | 8716                                | 2722                       | 11438                 | 67964                                      | 28523                      | 96487                 | 284                                     | 64                         | 348                   | 68248                           | 31309                      | 99557                 |
| Seemendusi<br><i>No. of inseminations</i>                                       | 17708                               | 4564                       | 22272                 | 142177                                     | 46717                      | 188894                | 536                                     | 95                         | 631                   | 142713                          | 51376                      | 194089                |
| Tiinestus 1. seemenduse järel<br><i>First service pregnancy rate, %</i>         | 47,5                                | 63,1                       | 50,8                  | 46,0                                       | 62,1                       | 50,9                  | 55,3                                    | 52,1                       | 54,6                  | 46,2                            | 62,2                       | 50,9                  |
| Seemenduste arv tiinestumise kohta<br><i>No. of inseminations per pregnancy</i> | 2,1                                 | 1,6                        | 2,0                   | 2,2  | 1,6                        | 2,0                   | 1,8                                     | 1,9                        | 1,8                   | 2,2                             | 1,6                        | 2,0                   |

## 16. Poegimiste ja vasikate arv

Calves born

|  |                              |  | Eesti punane<br><i>Estonian Red</i> | Eesti holstein<br><i>Estonian Holstein</i> | Eesti maotõug<br><i>Estonian Native</i> | Muud tõud<br><i>Other breeds</i> | Tõud kokku<br><i>All breeds</i> |
|--|------------------------------|--|-------------------------------------|--|---|----------------------------------|---------------------------------|
| Pullvasikaid kokku<br><i>Males total</i>             | arv no.                      |  | 4518                                | 34721                                      | 350                                     | 133                              | 39722                           |
|  | %                            |  | 48,5                                | 47,7                                       | 54,0                                    | 48,7                             | 47,8                            |
| Lehmvasikaid kokku<br><i>Females total</i>           | arv no.                      |  | 4790                                | 38064                                      | 298                                     | 140                              | 43292                           |
|  | %                            |  | 51,5                                | 52,3                                       | 46,0                                    | 51,3                             | 52,2                            |
| Vasikaid kokku<br><i>Calves total</i>                | arv no.                      |  | 9308                                | 72785                                      | 648                                     | 273                              | 83014                           |
| Kaksikuid pullvasikaid<br><i>Male twins</i>          | poegimisi<br><i>calvings</i> |  | 73                                  | 590  | 9                                       |                                  | 672                             |
|  | %                            |  | 0,8                                 | 0,8  | 1,4                                     |                                  | 0,8                             |
| Kaksikuid lehmvasikaid<br><i>Female twins</i>        | poegimisi<br><i>calvings</i> |  | 72                                  | 639  | 7                                       | 7                                | 725                             |
|  | %                            |  | 0,8                                 | 0,9  | 1,1                                     | 2,5                              | 0,9                             |
| Erisoolisi kaksikuid<br><i>Heterosex. twins</i>      | poegimisi<br><i>calvings</i> |  | 138                                 | 1015                                       | 6                                       | 2                                | 1161                            |
|  | %                            |  | 1,5                                 | 1,4  | 0,9                                     | 0,7                              | 1,4                             |
| Mitmikuid<br><i>Multiple calves</i>                  | poegimisi<br><i>calvings</i> |  | 1                                   | 6  |   |                                  | 7                               |
|  | %                            |  | 0,0                                 | 0,0  |   |                                  | 0,0                             |
| Aborte<br><i>Abortions</i>                           | arv no.                      |  | 87                                  | 788  | 2                                       | 2                                | 879                             |
|  | %                            |  | 0,9                                 | 1,1  | 0,3                                     | 0,7                              | 1,0                             |
| s.h esmaspoeginutel<br><i>1<sup>st</sup> calving</i> | arv no.                      |  | 7                                   | 72   |   |                                  | 79                              |
|  | %                            |  | 0,3                                 | 0,3  |   |                                  | 0,3                             |
| Surnultsüände<br><i>Stillbirths</i>                  | arv no.                      |  | 518                                 | 4859                                       | 41                                      | 17                               | 5435                            |
|  | %                            |  | 5,5                                 | 6,5  | 6,3                                     | 6,1                              | 6,4                             |
| s.h esmaspoeginutel<br><i>1<sup>st</sup> calving</i> | arv no.                      |  | 172                                 | 2184                                       | 22                                      | 10                               | 2388                            |
|  | %                            |  | 6,3                                 | 8,5  | 12,2                                    | 10,5                             | 8,3                             |
| korduvalt poeginutel<br><i>older cows</i>            | arv no.                      |  | 346                                 | 2675                                       | 19                                      | 7                                | 3047                            |
|  | %                            |  | 5,1                                 | 5,4  | 4,0                                     | 3,8                              | 5,3                             |
| Poegimisi kokku<br><i>Calvings total</i>             | arv no.                      |  | 9466                                | 74613                                      | 649                                     | 280                              | 85008                           |
| s.h esmaspoegimisi<br><i>1<sup>st</sup> calving</i>  | arv no.                      |  | 2714                                | 25774                                      | 180                                     | 95                               | 28763                           |
|  | %                            |  | 28,7                                | 34,5                                       | 27,7                                    | 33,9                             | 33,8                            |

## 17. Kinnisperioodi pikkus päevades

Days dry

| Tõug<br>Breed                       |       |      | 0          | 1–30        | 31–60        | 61–90        | >90         | Keskmine<br>Average |
|-------------------------------------|-------|------|------------|-------------|--------------|--------------|-------------|---------------------|
| Eesti punane<br>Estonian Red        | lehmi | cows | 21         | 151         | 3452         | 2445         | 784         | 66                  |
|                                     |       | %    | 0,3        | 2,2         | 50,4         | 35,7         | 11,4        |                     |
| Eesti holstein<br>Estonian Holstein | lehmi | cows | 164        | 1123        | 31717        | 13693        | 3161        | 59                  |
|                                     |       | %    | 0,3        | 2,3         | 63,6         | 27,5         | 6,3         |                     |
| Eesti maatõug<br>Estonian Native    | lehmi | cows | 2          | 22          | 103          | 163          | 191         | 111                 |
|                                     |       | %    | 0,4        | 4,6         | 21,4         | 33,9         | 39,7        |                     |
| Muud tõud<br>Other breeds           | lehmi | cows | 1          | 5           | 59           | 70           | 51          | 89                  |
|                                     |       | %    | 0,5        | 2,7         | 31,7         | 37,6         | 27,4        |                     |
| Kokku<br>Total                      | lehmi | cows | <b>188</b> | <b>1301</b> | <b>35331</b> | <b>16371</b> | <b>4187</b> | <b>61</b>           |
|                                     |       | %    | <b>0,3</b> | <b>2,3</b>  | <b>61,6</b>  | <b>28,5</b>  | <b>7,3</b>  |                     |

## 18. Uuslõpsiperioodi pikkus päevades

Days open

| Tõug<br>Breed                       |       |      | ≤30        | 31–60       | 61–90        | 91–120       | 121–150     | >150         | Keskmine<br>Average |
|-------------------------------------|-------|------|------------|-------------|--------------|--------------|-------------|--------------|---------------------|
| Eesti punane<br>Estonian Red        | lehmi | cows | 4          | 799         | 1803         | 1212         | 821         | 1723         | 124                 |
|                                     |       | %    | 0,1        | 12,6        | 28,3         | 19,1         | 12,9        | 27,1         |                     |
| Eesti holstein<br>Estonian Holstein | lehmi | cows | 7          | 6396        | 14549        | 8981         | 6058        | 11308        | 119                 |
|                                     |       | %    | 0,0        | 13,5        | 30,8         | 19,0         | 12,8        | 23,9         |                     |
| Eesti maatõug<br>Estonian Native    | lehmi | cows |            | 21          | 56           | 37           | 20          | 73           | 150                 |
|                                     |       | %    |            | 10,1        | 27,1         | 17,9         | 9,7         | 35,3         |                     |
| Muud tõud<br>Other breeds           | lehmi | cows |            | 18          | 26           | 23           | 10          | 26           | 127                 |
|                                     |       | %    |            | 17,5        | 25,2         | 22,3         | 9,7         | 25,2         |                     |
| Kokku<br>Total                      | lehmi | cows | <b>11</b>  | <b>7234</b> | <b>16434</b> | <b>10253</b> | <b>6909</b> | <b>13130</b> | <b>120</b>          |
|                                     |       | %    | <b>0,0</b> | <b>13,4</b> | <b>30,4</b>  | <b>19,0</b>  | <b>12,8</b> | <b>24,3</b>  |                     |

## 19. Lehmade jagunemine poegimisvahemiku pikkuse järgi

Distribution of cows by calving interval

| Tõug<br>Breed                       |       |      | Poegimisvahemik päevades<br>Calving interval, days |             |             |             |             |             |             |             | Keskmine<br>Average |            |
|-------------------------------------|-------|------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|------------|
|                                     |       |      | ≤300   | 301–330     | 331–360     | 361–390     | 391–420     | 421–450     | 451–480     | 481–510     |                     | >510       |
| Eesti punane<br>Estonian Red        | lehmi | cows | 18   | 322         | 1800        | 1533        | 975         | 768         | 506         | 311         | 568                 | 406        |
|                                     |       | %    | 0,3  | 4,7         | 26,5        | 22,5        | 14,3        | 11,3        | 7,4         | 4,6         | 8,4                 |            |
| Eesti holstein<br>Estonian Holstein | lehmi | cows | 114  | 3079        | 1455        | 1104        | 7028        | 4764        | 3183        | 2113        | 3530                | 398        |
|                                     |       | %    | 0,2  | 6,2         | 29,5        | 22,4        | 14,2        | 9,6         | 6,4         | 4,3         | 7,1                 |            |
| Eesti maatõug<br>Estonian Native    | lehmi | cows | 5  | 68          | 102         | 82          | 56          | 40          | 20          | 17          | 86                  | 424        |
|                                     |       | %    | 1,1  | 14,3        | 21,4        | 17,2        | 11,8        | 8,4         | 4,2         | 3,6         | 18,1                |            |
| Muud tõud<br>Other breeds           | lehmi | cows |  | 11          | 47          | 43          | 18          | 18          | 8           | 7           | 32                  | 428        |
|                                     |       | %    |  | 6,0         | 25,5        | 23,4        | 9,8         | 9,8         | 4,3         | 3,8         | 17,4                |            |
| Kokku<br>Total                      | lehmi | cows | <b>137</b>   | <b>3480</b> | <b>1650</b> | <b>1270</b> | <b>8077</b> | <b>5590</b> | <b>3717</b> | <b>2448</b> | <b>4216</b>         | <b>399</b> |
|                                     |       | %    | <b>0,2</b>   | <b>6,1</b>  | <b>29,0</b> | <b>22,3</b> | <b>14,2</b> | <b>9,8</b>  | <b>6,5</b>  | <b>4,3</b>  | <b>7,4</b>          |            |

## 20. Lehmade vanus esimesel poegimisel

Age at 1<sup>st</sup> calving

| Maakond<br>County         | Vanus kuudes Age, months |      |              |      |              |      |              |      |              |      |              |      |              |      | Keskmine<br>Average |
|---------------------------|--------------------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|---------------------|
|                           | <24                      |      | 24–25        |      | 26–27        |      | 28–29        |      | 30–31        |      | 32–33        |      | >33          |      |                     |
|                           | lehm<br>cows             | %    | lehm<br>cows | %    | lehm<br>cows | %    | lehm<br>cows | %    | lehm<br>cows | %    | lehm<br>cows | %    | lehm<br>cows | %    |                     |
| Harju                     | 299                      | 25,8 | 329          | 28,3 | 158          | 13,6 | 114          | 9,8  | 83           | 7,1  | 60           | 5,2  | 118          | 10,2 | 26,7                |
| Hiiu                      | 2                        | 1,1  | 6            | 3,2  | 24           | 12,8 | 43           | 22,9 | 39           | 20,7 | 23           | 12,2 | 51           | 27,1 | 32,4                |
| Ida-Viru                  | 54                       | 18,5 | 98           | 33,6 | 60           | 20,5 | 41           | 14,0 | 22           | 7,5  | 7            | 2,4  | 10           | 3,4  | 26,2                |
| Jõgeva                    | 947                      | 36,5 | 809          | 31,2 | 637          | 24,6 | 171          | 6,6  | 20           | 0,8  | 7            | 0,3  | 1            | 0,0  | 24,6                |
| Järva                     | 2588                     | 50,8 | 1603         | 31,5 | 587          | 11,5 | 193          | 3,8  | 79           | 1,6  | 17           | 0,3  | 26           | 0,5  | 23,9                |
| Lääne                     | 133                      | 33,3 | 191          | 47,8 | 46           | 11,5 | 12           | 3,0  | 6            | 1,5  | 6            | 1,5  | 6            | 1,5  | 24,6                |
| Lääne-Viru                | 1852                     | 48,6 | 1223         | 32,1 | 448          | 11,8 | 192          | 5,0  | 70           | 1,8  | 14           | 0,4  | 8            | 0,2  | 24,1                |
| Põlva                     | 1118                     | 48,5 | 706          | 30,6 | 352          | 15,3 | 87           | 3,8  | 31           | 1,3  | 10           | 0,4  | 1            | 0,0  | 24,1                |
| Pärnu                     | 675                      | 21,3 | 1418         | 44,8 | 533          | 16,8 | 348          | 11,0 | 102          | 3,2  | 24           | 0,8  | 64           | 2,0  | 25,4                |
| Rapla                     | 575                      | 27,3 | 721          | 34,2 | 411          | 19,5 | 204          | 9,7  | 107          | 5,1  | 48           | 2,3  | 41           | 1,9  | 25,5                |
| Saare                     | 413                      | 27,3 | 460          | 30,4 | 258          | 17,1 | 158          | 10,4 | 94           | 6,2  | 56           | 3,7  | 73           | 4,8  | 26,0                |
| Tartu                     | 705                      | 37,3 | 712          | 37,7 | 276          | 14,6 | 111          | 5,9  | 49           | 2,6  | 21           | 1,1  | 14           | 0,7  | 24,6                |
| Valga                     | 545                      | 45,1 | 413          | 34,2 | 178          | 14,7 | 39           | 3,2  | 13           | 1,1  | 8            | 0,7  | 13           | 1,1  | 24,0                |
| Viljandi                  | 1062                     | 42,4 | 767          | 30,6 | 415          | 16,6 | 152          | 6,1  | 53           | 2,1  | 24           | 1,0  | 31           | 1,2  | 24,4                |
| Võru                      | 150                      | 27,7 | 134          | 24,8 | 92           | 17,0 | 68           | 12,6 | 33           | 6,1  | 18           | 3,3  | 46           | 8,5  | 26,7                |
| Tõud Breeds               |                          |      |              |      |              |      |              |      |              |      |              |      |              |      |                     |
| EPK ER                    | 677                      | 24,9 | 918          | 33,8 | 563          | 20,7 | 261          | 9,6  | 140          | 5,2  | 57           | 2,1  | 98           | 3,6  | 25,8                |
| EHF EHF                   | 10416                    | 40,4 | 8633         | 33,5 | 3858         | 15,0 | 1607         | 6,2  | 630          | 2,4  | 263          | 1,0  | 367          | 1,4  | 24,6                |
| EK EN                     | 6                        | 3,3  | 19           | 10,6 | 34           | 18,9 | 52           | 28,9 | 26           | 14,4 | 19           | 10,6 | 24           | 13,3 | 30,1                |
| Muud tõud<br>Other breeds | 19                       | 20,0 | 20           | 21,1 | 20           | 21,1 | 13           | 13,7 | 5            | 5,3  | 4            | 4,2  | 14           | 14,7 | 27,7                |
| Kokku Total               | 11118                    | 38,7 | 9590         | 33,3 | 4475         | 15,6 | 1933         | 6,7  | 801          | 2,8  | 343          | 1,2  | 503          | 1,7  | 24,8                |

## 21. Lehmade jagunemine vanuse järgi

No. of cows by breed and age groups

| Vanus (a)<br>Age (y)             | Eesti punane<br>Estonian Red |       | Eesti holstein<br>Estonian Holstein |       | Eesti maatõug<br>Estonian Native |       | Muud tõud<br>Other breeds |       | Tõud kokku<br>All breeds |       |
|----------------------------------|------------------------------|-------|-------------------------------------|-------|----------------------------------|-------|---------------------------|-------|--------------------------|-------|
|                                  | arv no.                      | %     | arv no.                             | %     | arv no.                          | %     | arv no.                   | %     | arv no.                  | %     |
| ≤3                               | 3182                         | 34,1  | 32065                               | 45,3  | 178                              | 25,5  | 79                        | 27,5  | 35504                    | 43,8  |
| 4                                | 1846                         | 19,8  | 15716                               | 22,2  | 125                              | 17,9  | 48                        | 16,7  | 17735                    | 21,9  |
| 5                                | 1750                         | 18,8  | 11296                               | 16,0  | 110                              | 15,8  | 63                        | 22,0  | 13219                    | 16,3  |
| 6                                | 1030                         | 11,0  | 5949                                | 8,4   | 93                               | 13,3  | 35                        | 12,2  | 7107                     | 8,8   |
| 7                                | 659                          | 7,1   | 3030                                | 4,3   | 72                               | 10,3  | 27                        | 9,4   | 3788                     | 4,7   |
| 8                                | 400                          | 4,3   | 1418                                | 2,0   | 42                               | 6,0   | 14                        | 4,9   | 1874                     | 2,3   |
| 9                                | 222                          | 2,4   | 723                                 | 1,0   | 30                               | 4,3   | 4                         | 1,4   | 979                      | 1,2   |
| 10                               | 103                          | 1,1   | 322                                 | 0,5   | 10                               | 1,4   | 10                        | 3,5   | 445                      | 0,5   |
| 11                               | 70                           | 0,8   | 120                                 | 0,2   | 20                               | 2,9   | 3                         | 1,0   | 213                      | 0,3   |
| ≥12                              | 60                           | 0,6   | 75                                  | 0,1   | 17                               | 2,4   | 4                         | 1,4   | 156                      | 0,2   |
| Kokku<br>Total                   | 9322                         | 100,0 | 70714                               | 100,0 | 697                              | 100,0 | 287                       | 100,0 | 81020                    | 100,0 |
| Keskmine<br>vanus<br>Average age | 4 a 7 k                      |       | 4 a 0 k                             |       | 5 a 4 k                          |       | 5 a 0 k                   |       | 4 a 1 k                  |       |

## 22. Lehmade karjast väljamineku põhjused

Culling reasons

|   | Eesti punane<br><i>Estonian Red</i> |              | Eesti holstein<br><i>Estonian Holstein</i> |              | Eesti maatõug<br><i>Estonian Native</i> |              | Muud tõud<br><i>Other breeds</i> |              | Tõud kokku<br><i>All breeds</i> |              | Keskmine vanus a, k |
|---|-------------------------------------|--------------|--|--------------|---|--------------|----------------------------------|--------------|---------------------------------|--------------|---------------------|
|   | arv no.                             | %            | arv no.                                    | %            | arv no.                                 | %            | arv no.                          | %            | arv no.                         | %            | Avg. age (Y, M)     |
| Vanus<br><i>Age</i>                               | 49                                  | 1,6          | 161  | 0,7          | 2                                       | 1,5          | 0                                | 0,0          | 212                             | 0,8          | 9 a 2 k             |
| Madal toodang<br><i>Low productivity</i>          | 212                                 | 6,8          | 1342                                       | 5,5          | 3                                       | 2,2          | 15                               | 20,3         | 1572                            | 5,7          | 4 a 3 k             |
| Sigimisprobleemid<br><i>Fertility</i>             | 731                                 | 23,5         | 4897                                       | 20,1         | 35                                      | 25,9         | 14                               | 18,9         | 5677                            | 20,5         | 5 a 0 k             |
| Udarahaigused ja vead<br><i>Udder diseases</i>    | 809                                 | 26,0         | 4908                                       | 20,1         | 28                                      | 20,7         | 8                                | 10,8         | 5753                            | 20,8         | 5 a 2 k             |
| Jäsemete haigused ja vead<br><i>Feet diseases</i> | 459                                 | 14,7         | 4352                                       | 17,8         | 0                                       | 0,0          | 2                                | 2,7          | 4813                            | 17,4         | 5 a 3 k             |
| Ainevahetushaigused<br><i>Metabolic diseases</i>  | 218                                 | 7,0          | 2569                                       | 10,5         | 9                                       | 6,7          | 5                                | 6,8          | 2801                            | 10,1         | 5 a 0 k             |
| Muud haigused<br><i>Other diseases</i>            | 226                                 | 7,3          | 1831                                       | 7,5          | 11                                      | 8,1          | 3                                | 4,1          | 2071                            | 7,5          | 4 a 7 k             |
| Traumad<br><i>Accidents</i>                       | 248                                 | 8,0          | 2762                                       | 11,3         | 23                                      | 17,0         | 1                                | 1,4          | 3034                            | 10,9         | 4 a 6 k             |
| Muud põhjused<br><i>Other reasons</i>             | 162                                 | 5,2          | 1566                                       | 6,4          | 24                                      | 17,8         | 26                               | 35,1         | 1778                            | 6,4          | 4 a 8 k             |
| <b>Kokku</b><br><i>Total</i>                      | <b>3114</b>                         | <b>100,0</b> | <b>24388</b>                               | <b>100,0</b> | <b>135</b>                              | <b>100,0</b> | <b>74</b>                        | <b>100,0</b> | <b>27711</b>                    | <b>100,0</b> | <b>5 a 0 k</b>      |

## 23. Karjast välja läinud lehmade elueatoodang

Lifetime production of culled cows

| Tõug<br><i>Breed</i>                       | Aasta<br><i>Year</i> | Eluiga, p<br><i>Lifetime, d</i> | Produktiivne iga, p<br><i>Productive lifetime, d</i> | Piima<br><i>Milk</i> | Rasva<br><i>Fat</i> | Valku<br><i>Protein</i> | R+V<br><i>F+P</i> |
|--|----------------------|---------------------------------|--|----------------------|---------------------|-------------------------|-------------------|
|  |                      |                                 |  | kg                   | kg                  | %                       | kg                |
| Eesti punane<br><i>Estonian Red</i>        | 2018                 | 2029                            | 1212   | 27926                | 1146                | 4,10                    | 2109              |
|  | 2019                 | 2040                            | 1225   | 29122                | 1193                | 4,10                    | 2201              |
|  | 2020                 | 2054                            | 1238   | 29900                | 1216                | 4,07                    | 2251              |
|  | 2021                 | 2090                            | 1279   | 31379                | 1277                | 4,07                    | 2365              |
|  | 2022                 | 2076                            | 1275   | 32019                | 1310                | 4,09                    | 2428              |
| Eesti holstein<br><i>Estonian Holstein</i> | 2018                 | 1814                            | 1018   | 26739                | 1051                | 3,93                    | 1950              |
|  | 2019                 | 1812                            | 1026   | 27777                | 1086                | 3,91                    | 2024              |
|  | 2020                 | 1813                            | 1034   | 28772                | 1118                | 3,89                    | 2089              |
|  | 2021                 | 1802                            | 1032   | 29504                | 1140                | 3,86                    | 2137              |
|  | 2022                 | 1800                            | 1030   | 29466                | 1139                | 3,86                    | 2135              |
| Eesti maatõug<br><i>Estonian Native</i>    | 2018                 | 2103                            | 1219   | 15364                | 704                 | 4,58                    | 1232              |
|  | 2019                 | 2282                            | 1360   | 19307                | 872                 | 4,52                    | 1529              |
|  | 2020                 | 2338                            | 1407   | 20150                | 900                 | 4,47                    | 1587              |
|  | 2021                 | 2395                            | 1422   | 18745                | 864                 | 4,61                    | 1513              |
|  | 2022                 | 2214                            | 1269   | 17296                | 800                 | 4,62                    | 1401              |
| Tõud kokku<br><i>All breeds</i>            | 2018                 | 1851                            | 1051   | 26898                | 1066                | 3,96                    | 1974              |
|  | 2019                 | 1847                            | 1056   | 27947                | 1101                | 3,94                    | 2048              |
|  | 2020                 | 1848                            | 1064   | 28898                | 1131                | 3,91                    | 2110              |
|  | 2021                 | 1842                            | 1065   | 29693                | 1156                | 3,89                    | 2164              |
|  | 2022                 | 1815                            | 1049   | 30011                | 1171                | 3,90                    | 2191              |

## 24. Tõuraamatulehmade toodang aastalehma kohta

Productivity of herdbook cows

| Tõug<br><i>Breed</i>                       | TR osa<br><i>HB section</i> | Aastalehmi<br><i>Cows</i> | Piima<br><i>Milk</i> |      | Rasva<br><i>Fat</i> |      | Valku<br><i>Protein</i> |     | R+V<br><i>F+P</i> |
|--|-----------------------------|---------------------------|----------------------|------|---------------------|------|-------------------------|-----|-------------------|
|  |                             |                           | kg                   | %    | kg                  | %    | kg                      | kg  |                   |
| Eesti punane<br><i>Estonian Red</i>        | A                           | 8353                      | 9428                 | 4,14 | 391                 | 3,52 | 332                     | 723 |                   |
|  | B                           | 492                       | 8348                 | 4,13 | 345                 | 3,47 | 290                     | 635 |                   |
|  | R                           | 703                       | 7564                 | 4,11 | 311                 | 3,46 | 262                     | 573 |                   |
| Eesti holstein<br><i>Estonian Holstein</i> | A                           | 56297                     | 11030                | 3,91 | 431                 | 3,39 | 374                     | 805 |                   |
|  | B                           | 10668                     | 10749                | 3,94 | 424                 | 3,41 | 367                     | 791 |                   |
|  | R                           | 3647                      | 9244                 | 4,03 | 373                 | 3,43 | 317                     | 690 |                   |
| Eesti maatõug<br><i>Estonian Native</i>    | A                           | 201                       | 4716                 | 4,58 | 216                 | 3,49 | 164                     | 381 |                   |
|  | B                           | 301                       | 3892                 | 4,61 | 180                 | 3,51 | 137                     | 316 |                   |
|  | R1                          | 98                        | 5168                 | 4,64 | 235                 | 3,43 | 177                     | 412 |                   |
|  | R2                          | 43                        | 5336                 | 4,40 | 235                 | 3,40 | 181                     | 416 |                   |

## 25. 305 päeva laktatsiooni toodang tõuraamatulehmadel

305-d lactation productivity of herdbook cows

| Tõug<br><i>Breed</i> | TR osa<br><i>HB section</i> | Laktatsioon<br><i>Lactation</i> | Aastalehmi<br><i>Cows</i> | Piima<br><i>Milk</i> |      | Rasva<br><i>Fat</i> |      | Valku<br><i>Protein</i> |     | R+V<br><i>F+P</i> |
|----------------------|-----------------------------|---------------------------------|---------------------------|----------------------|------|---------------------|------|-------------------------|-----|-------------------|
|                      |                             |                                 |                           | kg                   | %    | kg                  | %    | kg                      | kg  |                   |
| EPK<br><i>ER</i>     | A                           | 1.                              | 2036                      | 8234                 | 4.09 | 336                 | 3.52 | 290                     | 626 |                   |
|                      |                             | 2.                              | 1879                      | 9601                 | 4.09 | 392                 | 3.51 | 337                     | 729 |                   |
|                      |                             | ≥3.                             | 2939                      | 10086                | 4.05 | 408                 | 3.44 | 347                     | 755 |                   |
|                      | B                           | 1.                              | 83                        | 7283                 | 4.07 | 296                 | 3.43 | 250                     | 546 |                   |
|                      |                             | 2.                              | 112                       | 8710                 | 4.10 | 357                 | 3.45 | 300                     | 657 |                   |
|                      |                             | ≥3.                             | 192                       | 9215                 | 4.00 | 369                 | 3.39 | 312                     | 681 |                   |
|                      | R                           | 1.                              | 159                       | 6680                 | 4.06 | 271                 | 3.39 | 227                     | 498 |                   |
|                      |                             | 2.                              | 126                       | 8238                 | 4.04 | 333                 | 3.45 | 284                     | 617 |                   |
|                      |                             | ≥3.                             | 259                       | 8489                 | 4.06 | 345                 | 3.39 | 288                     | 633 |                   |
| EHF<br><i>EHF</i>    | A                           | 1.                              | 17970                     | 9540                 | 3.88 | 370                 | 3.39 | 323                     | 693 |                   |
|                      |                             | 2.                              | 13426                     | 11402                | 3.80 | 433                 | 3.36 | 383                     | 817 |                   |
|                      |                             | ≥3.                             | 14724                     | 11525                | 3.84 | 443                 | 3.32 | 382                     | 825 |                   |
|                      | B                           | 1.                              | 3023                      | 9242                 | 3.91 | 361                 | 3.43 | 317                     | 678 |                   |
|                      |                             | 2.                              | 2349                      | 11131                | 3.87 | 431                 | 3.41 | 379                     | 810 |                   |
|                      |                             | ≥3.                             | 3432                      | 11431                | 3.83 | 438                 | 3.34 | 381                     | 819 |                   |
|                      | R                           | 1.                              | 843                       | 8208                 | 3.99 | 328                 | 3.42 | 281                     | 608 |                   |
|                      |                             | 2.                              | 765                       | 10217                | 3.93 | 402                 | 3.40 | 348                     | 749 |                   |
|                      |                             | ≥3.                             | 1282                      | 9714                 | 3.99 | 387                 | 3.36 | 326                     | 714 |                   |
| EK<br><i>EN</i>      | A                           | 1.                              | 5                         | 5418                 | 4.62 | 250                 | 3.43 | 186                     | 436 |                   |
|                      |                             | 2.                              | 43                        | 5499                 | 4.54 | 250                 | 3.45 | 190                     | 439 |                   |
|                      |                             | ≥3.                             | 104                       | 5751                 | 4.54 | 261                 | 3.43 | 197                     | 458 |                   |
|                      | B                           | 1.                              | 100                       | 4778                 | 4.48 | 214                 | 3.47 | 166                     | 380 |                   |
|                      |                             | 2.                              | 30                        | 4337                 | 4.68 | 203                 | 3.52 | 153                     | 356 |                   |
|                      |                             | ≥3.                             | 52                        | 4407                 | 4.55 | 200                 | 3.47 | 153                     | 353 |                   |
|                      | R1                          | 1.                              | 20                        | 4266                 | 4.55 | 194                 | 3.42 | 146                     | 340 |                   |
|                      |                             | 2.                              | 18                        | 5084                 | 4.66 | 237                 | 3.48 | 177                     | 414 |                   |
|                      |                             | ≥3.                             | 33                        | 5192                 | 4.51 | 234                 | 3.42 | 177                     | 411 |                   |
| R2                   | 1.                          | 10                              | 4843                      | 4.39                 | 213  | 3.39                | 164  | 377                     |     |                   |
|                      | 2.                          | 7                               | 5129                      | 4.56                 | 234  | 3.45                | 177  | 411                     |     |                   |
|                      | ≥3.                         | 13                              | 6023                      | 4.05                 | 244  | 3.28                | 198  | 442                     |     |                   |

## 26. Lehmade arv tõugude viisi maakondades

No. of cows of different breeds by counties

| Maakond<br>County      | Eesti punane<br>Estonian Red |             | Eesti holstein<br>Estonian Holstein |             | Eesti maatõug<br>Estonian Native |            | Muud tõud<br>Other breeds |            | Tõud kokku<br>All breeds |
|------------------------|------------------------------|-------------|-------------------------------------|-------------|----------------------------------|------------|---------------------------|------------|--------------------------|
|                        | arv no.                      | %           | arv no.                             | %           | arv no.                          | %          | arv no.                   | %          |                          |
| Harju                  | 89                           | 2,3         | 3668                                | 93,4        | 149                              | 3,8        | 20                        | 0,5        | 3926                     |
| Hiiu                   | 68                           | 10,9        | 540                                 | 86,8        | 11                               | 1,8        | 3                         | 0,5        | 622                      |
| Ida-Viru               | 225                          | 22,3        | 728                                 | 72,2        | 5                                | 0,5        | 50                        | 5,0        | 1008                     |
| Jõgeva                 | 1029                         | 13,8        | 6400                                | 86,0        | 8                                | 0,1        | 1                         | 0,0        | 7438                     |
| Järva                  | 181                          | 1,4         | 12975                               | 97,8        | 69                               | 0,5        | 48                        | 0,4        | 13273                    |
| Lääne                  | 8                            | 0,7         | 1077                                | 99,2        | 0                                | 0,0        | 1                         | 0,1        | 1086                     |
| Lääne-Viru             | 243                          | 2,4         | 9944                                | 97,5        | 5                                | 0,0        | 12                        | 0,1        | 10204                    |
| Põlva                  | 834                          | 14,5        | 4931                                | 85,5        | 0                                | 0,0        | 0                         | 0,0        | 5765                     |
| Pärnu                  | 91                           | 0,9         | 9511                                | 97,6        | 107                              | 1,1        | 35                        | 0,4        | 9744                     |
| Rapla                  | 24                           | 0,4         | 5743                                | 98,7        | 43                               | 0,7        | 8                         | 0,1        | 5818                     |
| Saare                  | 2100                         | 44,1        | 2444                                | 51,3        | 202                              | 4,2        | 18                        | 0,4        | 4764                     |
| Tartu                  | 751                          | 13,3        | 4838                                | 85,8        | 11                               | 0,2        | 37                        | 0,7        | 5637                     |
| Valga                  | 1266                         | 36,8        | 2148                                | 62,5        | 0                                | 0,0        | 24                        | 0,7        | 3438                     |
| Viljandi               | 1755                         | 26,7        | 4721                                | 71,8        | 82                               | 1,2        | 17                        | 0,3        | 6575                     |
| Võru                   | 658                          | 38,2        | 1046                                | 60,7        | 5                                | 0,3        | 13                        | 0,8        | 1722                     |
| <b>Kokku<br/>Total</b> | <b>9322</b>                  | <b>11,5</b> | <b>70714</b>                        | <b>87,3</b> | <b>697</b>                       | <b>0,9</b> | <b>287</b>                | <b>0,4</b> | <b>81020</b>             |

## 27. Karjade arv ning keskmine karja suurus maakondades

No. of herds and average herd size in counties

| Maakond<br>County        | Karjade arv 31.12<br>Herds |            |            |            | Keskmine karja suurus 31.12<br>Average herd size |              |              |              |
|--------------------------|----------------------------|------------|------------|------------|--|--------------|--------------|--------------|
|                          | 2019                       | 2020       | 2021       | 2022       | 2019   | 2020         | 2021         | 2022         |
| Harju                    | 32                         | 31         | 31         | 29         | 125,2  | 132,2        | 130,4        | 135,4        |
| Hiiu                     | 8                          | 8          | 7          | 5          | 67,9   | 78,8         | 90,3         | 124,4        |
| Ida-Viru                 | 9                          | 9          | 6          | 6          | 120,6  | 117,0        | 176,2        | 168,0        |
| Jõgeva                   | 27                         | 23         | 21         | 18         | 272,6  | 323,0        | 352,4        | 413,2        |
| Järva                    | 43                         | 38         | 33         | 32         | 299,1  | 337,4        | 395,2        | 414,8        |
| Lääne                    | 8                          | 7          | 6          | 6          | 167,1  | 188,7        | 176,3        | 181,0        |
| Lääne-Viru               | 59                         | 55         | 50         | 51         | 171,1  | 181,9        | 202,5        | 200,1        |
| Põlva                    | 31                         | 29         | 25         | 22         | 187,6  | 200,0        | 229,8        | 262,0        |
| Pärnu                    | 62                         | 53         | 48         | 45         | 157,8  | 187,5        | 207,7        | 216,5        |
| Rapla                    | 35                         | 33         | 28         | 28         | 167,8  | 178,0        | 203,6        | 207,8        |
| Saare                    | 39                         | 37         | 35         | 32         | 127,8  | 126,3        | 134,7        | 148,9        |
| Tartu                    | 24                         | 21         | 21         | 20         | 214,0  | 242,3        | 262,2        | 281,9        |
| Valga                    | 13                         | 14         | 16         | 13         | 240,8  | 234,9        | 211,3        | 264,5        |
| Viljandi                 | 48                         | 46         | 43         | 40         | 152,3  | 155,0        | 150,6        | 164,4        |
| Võru                     | 40                         | 31         | 29         | 24         | 63,3   | 60,5         | 63,4         | 71,8         |
| <b>Eesti<br/>Estonia</b> | <b>478</b>                 | <b>435</b> | <b>399</b> | <b>371</b> | <b>171,2</b>                                     | <b>186,3</b> | <b>202,2</b> | <b>218,4</b> |

## 28. 305 päeva laktatsiooni toodang maakondades

305-d lactation yield in counties by breeds

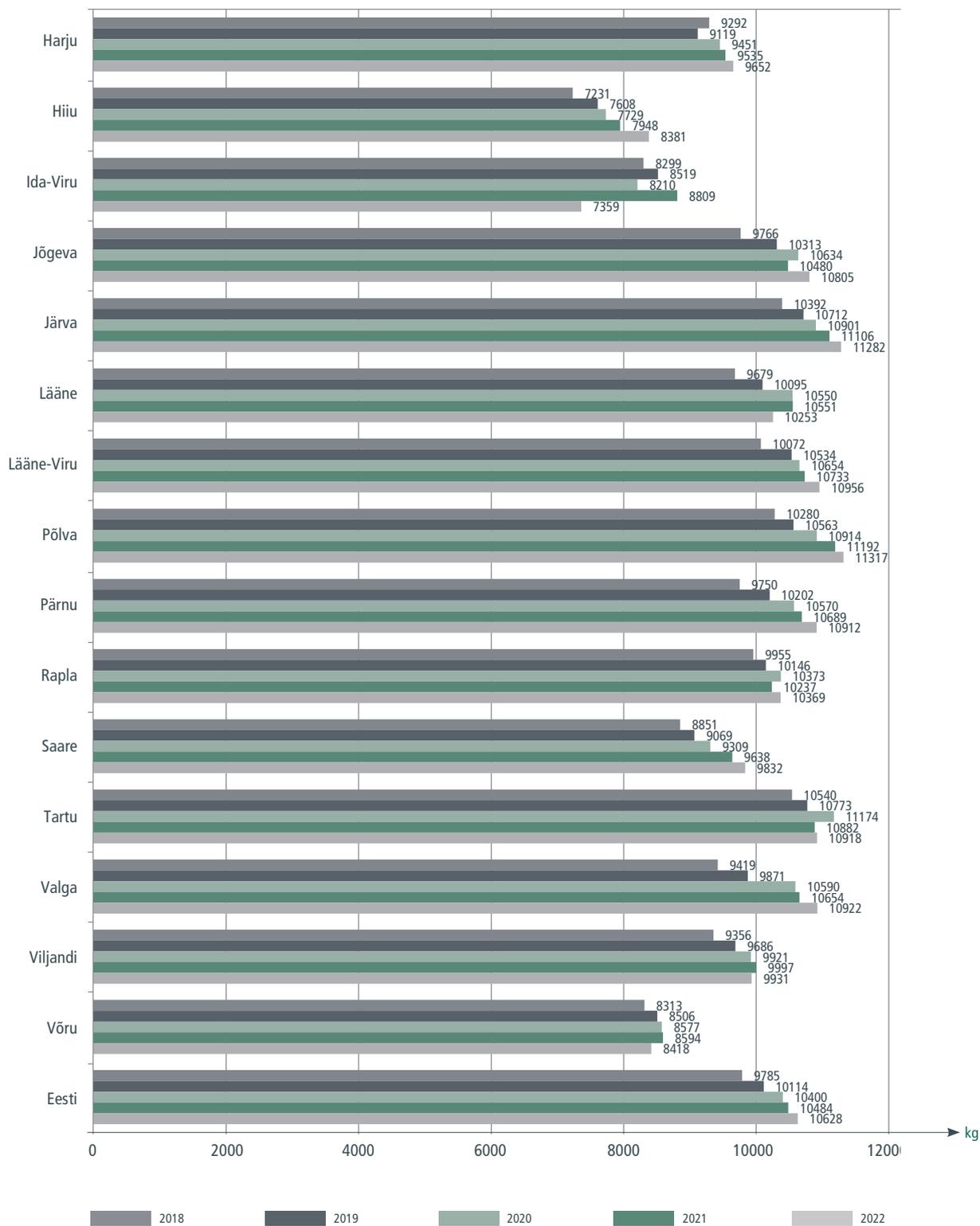
| Maakond<br>County | Tüüp<br>Breed | 1. laktatsioon<br>1 <sup>st</sup> lactation |                     |                   |                    |                       |                  | 2. laktatsioon<br>2 <sup>nd</sup> lactation |                     |                   |                    |                       |                  | 3. laktatsioon ja vanemad<br>3 <sup>rd</sup> lactation and older |                     |                   |                    |                       |                  |             |            |            |
|-------------------|---------------|---|---------------------|-------------------|--------------------|-----------------------|------------------|---|---------------------|-------------------|--------------------|-----------------------|------------------|--|---------------------|-------------------|--------------------|-----------------------|------------------|-------------|------------|------------|
|                   |               | lehmi<br>cows                               | piima<br>milk<br>kg | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | r+h<br>f+p<br>kg | lehmi<br>cows                               | piima<br>milk<br>kg | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | r+h<br>f+p<br>kg | lehmi<br>cows  | piima<br>milk<br>kg | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | r+h<br>f+p<br>kg |             |            |            |
| Harju             | EPK           | 12  | 7829                | 4,03              | 316                | 3,38                  | 265              | 580   | 21                  | 7906              | 4,23               | 334                   | 3,49             | 276  | 610                 | 25                | 8665               | 4,24                  | 367              | 3,46        | 300        | 667        |
|                   | EHF           | 964   | 8562                | 3,90              | 334                | 3,36                  | 288              | 622   | 825                 | 10309             | 3,81               | 393                   | 3,33             | 343  | 737                 | 1263              | 10537              | 3,85                  | 405              | 3,30        | 348        | 753        |
|                   | EK            | 43  | 5213                | 4,51              | 235                | 3,54                  | 185              | 420   | 22                  | 5923              | 4,45               | 263                   | 3,50             | 207  | 471                 | 45                | 6285               | 4,43                  | 279              | 3,38        | 213        | 491        |
|                   | Muud tüübid   | 3   | 6249                | 3,98              | 249                | 3,43                  | 214              | 463   | 2                   | 7953              | 4,05               | 322                   | 3,51             | 280  | 601                 | 2                 | 10017              | 3,97                  | 398              | 3,59        | 360        | 758        |
| Kokku             | <b>1022</b>   | <b>8406</b>                                 | <b>3,92</b>         | <b>329</b>        | <b>3,36</b>        | <b>283</b>            | <b>612</b>       | <b>870</b>                                  | <b>10135</b>        | <b>3,83</b>       | <b>388</b>         | <b>3,34</b>           | <b>338</b>       | <b>727</b>   | <b>1335</b>         | <b>10358</b>      | <b>3,87</b>        | <b>400</b>            | <b>3,31</b>      | <b>343</b>  | <b>743</b> |            |
| Hiiumaa           | EPK           | 9   | 5046                | 4,15              | 209                | 3,44                  | 173              | 383   | 10                  | 5659              | 4,15               | 235                   | 3,47             | 197  | 432                 | 24                | 6448               | 4,28                  | 276              | 3,46        | 223        | 499        |
|                   | EHF           | 132   | 7735                | 4,00              | 309                | 3,34                  | 259              | 568   | 104                 | 9310              | 3,96               | 369                   | 3,29             | 306  | 675                 | 164               | 9576               | 3,98                  | 381              | 3,29        | 315        | 696        |
|                   | EK            | 5   | 4905                | 4,28              | 210                | 3,37                  | 165              | 375   | 2                   | 8647              | 4,46               | 385                   | 3,67             | 317  | 703                 | 1                 | 9186               | 4,32                  | 397              | 3,60        | 331        | 728        |
|                   | Muud tüübid   | 1   | 6280                | 3,76              | 236                | 3,48                  | 219              | 455   | 1                   | 6280              | 3,76               | 236                   | 3,48             | 219  | 455                 |                   |                    |                       |                  |             |            |            |
| Kokku             | <b>146</b>    | <b>7472</b>                                 | <b>4,01</b>         | <b>300</b>        | <b>3,35</b>        | <b>250</b>            | <b>550</b>       | <b>117</b>                                  | <b>8961</b>         | <b>3,98</b>       | <b>356</b>         | <b>3,31</b>           | <b>296</b>       | <b>653</b>   | <b>189</b>          | <b>9176</b>       | <b>4,01</b>        | <b>368</b>            | <b>3,30</b>      | <b>303</b>  | <b>671</b> |            |
| Ida-Viru          | EPK           | 58  | 5976                | 4,28              | 256                | 3,53                  | 211              | 467   | 48                  | 7662              | 4,16               | 319                   | 3,56             | 273  | 591                 | 67                | 6759               | 4,36                  | 295              | 3,51        | 237        | 532        |
|                   | EHF           | 195   | 8428                | 3,84              | 324                | 3,43                  | 289              | 613   | 148                 | 9113              | 3,88               | 354                   | 3,48             | 317  | 671                 | 280               | 8279               | 3,97                  | 329              | 3,43        | 284        | 612        |
|                   | EK            | 1   | 4753                | 4,56              | 217                | 3,62                  | 172              | 389   | 1                   | 6145              | 3,96               | 243                   | 3,24             | 199  | 442                 | 2                 | 4665               | 4,81                  | 224              | 3,66        | 171        | 395        |
|                   | Muud tüübid   | 3   | 4442                | 4,16              | 185                | 3,09                  | 137              | 322   | 18                  | 4818              | 4,03               | 194                   | 3,10             | 150  | 344                 | 20                | 4842               | 4,15                  | 201              | 3,19        | 155        | 356        |
| Kokku             | <b>256</b>    | <b>7826</b>                                 | <b>3,92</b>         | <b>307</b>        | <b>3,45</b>        | <b>270</b>            | <b>577</b>       | <b>214</b>                                  | <b>8427</b>         | <b>3,95</b>       | <b>333</b>         | <b>3,48</b>           | <b>293</b>       | <b>626</b>   | <b>369</b>          | <b>7797</b>       | <b>4,04</b>        | <b>315</b>            | <b>3,43</b>      | <b>268</b>  | <b>583</b> |            |
| Jõgeva            | EPK           | 251   | 8218                | 4,20              | 345                | 3,66                  | 301              | 646   | 283                 | 9821              | 4,10               | 402                   | 3,60             | 354  | 756                 | 345               | 10262              | 4,01                  | 411              | 3,50        | 359        | 770        |
|                   | EHF           | 1888  | 9401                | 3,95              | 371                | 3,44                  | 324              | 695   | 1640                | 11431             | 3,86               | 441                   | 3,41             | 389  | 831                 | 1599              | 11368              | 3,88                  | 441              | 3,37        | 383        | 824        |
|                   | EK            | 1   | 4753                | 4,56              | 217                | 3,62                  | 172              | 389   | 1                   | 6145              | 3,96               | 243                   | 3,24             | 199  | 442                 | 2                 | 4665               | 4,81                  | 224              | 3,66        | 171        | 395        |
|                   | Muud tüübid   | 18  | 8243                | 4,39              | 362                | 3,63                  | 299              | 661   | 1                   | 5080              | 3,63               | 185                   | 3,39             | 172  | 357                 | 11                | 10423              | 4,27                  | 445              | 3,70        | 385        | 831        |
| Kokku             | <b>2140</b>   | <b>9260</b>                                 | <b>3,98</b>         | <b>368</b>        | <b>3,46</b>        | <b>321</b>            | <b>689</b>       | <b>1925</b>                                 | <b>11190</b>        | <b>3,89</b>       | <b>435</b>         | <b>3,43</b>           | <b>384</b>       | <b>819</b>   | <b>1949</b>         | <b>11157</b>      | <b>3,90</b>        | <b>435</b>            | <b>3,39</b>      | <b>378</b>  | <b>813</b> |            |
| Järva             | EPK           | 67  | 8317                | 3,98              | 331                | 3,50                  | 291              | 622   | 46                  | 9483              | 3,93               | 373                   | 3,54             | 336  | 709                 | 35                | 8942               | 3,97                  | 355              | 3,49        | 312        | 667        |
|                   | EHF           | 4287  | 9749                | 3,87              | 377                | 3,39                  | 331              | 707   | 3202                | 11648             | 3,77               | 439                   | 3,38             | 394  | 832                 | 3229              | 11889              | 3,82                  | 455              | 3,34        | 397        | 852        |
|                   | EK            | 14  | 4454                | 4,50              | 200                | 3,59                  | 160              | 360   | 5                   | 3662              | 4,61               | 169                   | 3,54             | 130  | 298                 | 23                | 4099               | 4,46                  | 183              | 3,58        | 147        | 330        |
|                   | Muud tüübid   | 18  | 8243                | 4,39              | 362                | 3,63                  | 299              | 661   | 1                   | 5080              | 3,63               | 185                   | 3,39             | 172  | 357                 | 11                | 10423              | 4,27                  | 445              | 3,70        | 385        | 831        |
| Kokku             | <b>4386</b>   | <b>9704</b>                                 | <b>3,87</b>         | <b>376</b>        | <b>3,39</b>        | <b>329</b>            | <b>705</b>       | <b>3254</b>                                 | <b>11603</b>        | <b>3,77</b>       | <b>437</b>         | <b>3,38</b>           | <b>392</b>       | <b>830</b>   | <b>3298</b>         | <b>11799</b>      | <b>3,83</b>        | <b>452</b>            | <b>3,34</b>      | <b>395</b>  | <b>846</b> |            |
| Lääne             | EPK           | 326   | 9238                | 3,95              | 365                | 3,37                  | 312              | 677   | 251                 | 10683             | 3,86               | 412                   | 3,38             | 361  | 773                 | 302               | 11334              | 3,88                  | 440              | 3,30        | 374        | 814        |
|                   | EHF           | 326   | 9238                | 3,95              | 365                | 3,37                  | 312              | 677   | 251                 | 10683             | 3,86               | 412                   | 3,38             | 361  | 773                 | 302               | 11334              | 3,88                  | 440              | 3,30        | 374        | 814        |
|                   | Muud tüübid   | 1   | 7083                | 4,10              | 290                | 3,46                  | 245              | 536   | 1                   | 7083              | 4,10               | 290                   | 3,46             | 245  | 536                 |                   |                    |                       |                  |             |            |            |
|                   | Kokku         | <b>326</b>                                  | <b>9238</b>         | <b>3,95</b>       | <b>365</b>         | <b>3,37</b>           | <b>312</b>       | <b>677</b>                                  | <b>252</b>          | <b>10672</b>      | <b>3,86</b>        | <b>412</b>            | <b>3,38</b>      | <b>361</b>   | <b>773</b>          | <b>309</b>        | <b>11247</b>       | <b>3,88</b>           | <b>430</b>       | <b>3,30</b> | <b>371</b> | <b>808</b> |
| Lääne-Viru        | EPK           | 60  | 8040                | 4,22              | 340                | 3,51                  | 282              | 622   | 66                  | 9863              | 4,06               | 400                   | 3,53             | 349  | 749                 | 108               | 10482              | 3,85                  | 403              | 3,40        | 357        | 760        |
|                   | EHF           | 3126  | 9401                | 3,92              | 369                | 3,45                  | 324              | 693   | 2298                | 11254             | 3,87               | 435                   | 3,41             | 384  | 819                 | 2625              | 11424              | 3,86                  | 441              | 3,35        | 382        | 823        |
|                   | EK            | 2   | 3443                | 4,76              | 164                | 3,47                  | 120              | 283   |                     |                   |                    |                       |                  |  |                     | 1                 | 3438               | 4,39                  | 151              | 3,34        | 115        | 266        |
|                   | Muud tüübid   | 5   | 4327                | 4,24              | 184                | 3,37                  | 146              | 329   | 1                   | 4550              | 5,17               | 235                   | 3,49             | 159  | 394                 | 2                 | 6076               | 4,41                  | 268              | 3,48        | 211        | 479        |
| Kokku             | <b>3193</b>   | <b>9364</b>                                 | <b>3,93</b>         | <b>368</b>        | <b>3,45</b>        | <b>323</b>            | <b>690</b>       | <b>2365</b>                                 | <b>11212</b>        | <b>3,87</b>       | <b>434</b>         | <b>3,41</b>           | <b>383</b>       | <b>817</b>   | <b>2736</b>         | <b>11380</b>      | <b>3,86</b>        | <b>439</b>            | <b>3,35</b>      | <b>381</b>  | <b>820</b> |            |

28. ...järg  
...continued

| Maakond<br>County | Tõug<br>Breed | lehmi<br>cows | piima<br>milk<br>kg | rasva<br>fat |            | valku<br>protein<br>kg | r+v<br>f+p<br>kg | lehmi<br>cows | piima<br>milk<br>kg | rasva<br>fat |            | valku<br>protein<br>kg | r+v<br>f+p<br>kg | lehmi<br>cows | piima<br>milk<br>kg | rasva<br>fat |            | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
|-------------------|---------------|---------------|---------------------|--------------|------------|------------------------|------------------|---------------|---------------------|--------------|------------|------------------------|------------------|---------------|---------------------|--------------|------------|------------------------|------------------|
|                   |               |               |                     | %            | kg         |                        |                  |               |                     | %            | kg         |                        |                  |               |                     | %            | kg         |                        |                  |
| Põlva             | EPK           | 176           | 8864                | 3,95         | 350        | 301                    | 651              | 199           | 10044               | 4,01         | 403        | 347                    | 750              | 310           | 10547               | 4,08         | 430        | 358                    | 788              |
|                   | EHF           | 1572          | 9957                | 3,79         | 377        | 326                    | 703              | 1096          | 12031               | 3,80         | 457        | 395                    | 852              | 1326          | 12208               | 3,88         | 473        | 399                    | 873              |
|                   | Kokku         | <b>1748</b>   | <b>9847</b>         | <b>3,80</b>  | <b>374</b> | <b>324</b>             | <b>698</b>       | <b>1295</b>   | <b>11726</b>        | <b>3,83</b>  | <b>449</b> | <b>388</b>             | <b>837</b>       | <b>1636</b>   | <b>11893</b>        | <b>3,91</b>  | <b>465</b> | <b>329</b>             | <b>857</b>       |
| Pänu              | EPK           | 3             | 7223                | 4,12         | 298        | 251                    | 549              | 19            | 6746                | 4,05         | 273        | 225                    | 499              | 56            | 7739                | 4,08         | 316        | 257                    | 573              |
|                   | EHF           | 2914          | 9726                | 3,85         | 375        | 328                    | 703              | 2242          | 11491               | 3,78         | 435        | 383                    | 818              | 3029          | 11508               | 3,80         | 437        | 377                    | 814              |
|                   | EK            | 31            | 4623                | 4,37         | 202        | 153                    | 355              | 22            | 5435                | 4,56         | 248        | 184                    | 432              | 32            | 5918                | 4,59         | 271        | 199                    | 470              |
| Muud tõud         |               | 7             | 5877                | 4,36         | 256        | 197                    | 453              | 2             | 5055                | 4,06         | 205        | 171                    | 377              | 9             | 8075                | 3,96         | 320        | 261                    | 581              |
| Kokku             | <b>2955</b>   | <b>9661</b>   | <b>3,85</b>         | <b>372</b>   | <b>326</b> | <b>698</b>             | <b>2285</b>      | <b>11388</b>  | <b>3,79</b>         | <b>431</b>   | <b>379</b> | <b>811</b>             | <b>3126</b>      | <b>11373</b>  | <b>3,80</b>         | <b>433</b>   | <b>328</b> | <b>806</b>             |                  |
| Rapla             | EPK           | 9             | 8485                | 4,13         | 351        | 293                    | 643              | 1             | 10796               | 4,56         | 493        | 439                    | 932              | 6             | 11430               | 3,77         | 430        | 325                    | 371              |
|                   | EHF           | 1724          | 9042                | 4,02         | 363        | 309                    | 672              | 1342          | 10738               | 3,93         | 422        | 362                    | 783              | 1656          | 10729               | 3,97         | 426        | 356                    | 782              |
|                   | EK            | 2             | 4369                | 4,77         | 208        | 149                    | 357              | 3             | 3353                | 4,66         | 156        | 119                    | 275              | 5             | 5009                | 4,47         | 224        | 191                    | 415              |
| Muud tõud         |               | 1             | 7092                | 4,01         | 284        | 223                    | 508              |               |                     |              |            |                        | 7                | 8013          | 3,95                | 316          | 260        | 577                    |                  |
| Kokku             | <b>1736</b>   | <b>9032</b>   | <b>4,02</b>         | <b>363</b>   | <b>324</b> | <b>309</b>             | <b>672</b>       | <b>1346</b>   | <b>10722</b>        | <b>3,93</b>  | <b>421</b> | <b>361</b>             | <b>782</b>       | <b>1674</b>   | <b>10703</b>        | <b>3,97</b>  | <b>425</b> | <b>332</b>             | <b>780</b>       |
| Saare             | EPK           | 542           | 7397                | 4,13         | 306        | 259                    | 565              | 472           | 8592                | 4,18         | 360        | 298                    | 657              | 722           | 9262                | 4,12         | 381        | 320                    | 701              |
|                   | EHF           | 741           | 10108               | 3,69         | 373        | 353                    | 726              | 528           | 11875               | 3,84         | 456        | 414                    | 870              | 667           | 12341               | 3,76         | 463        | 420                    | 883              |
|                   | EK            | 32            | 4532                | 4,62         | 209        | 156                    | 366              | 36            | 4522                | 4,70         | 213        | 156                    | 369              | 72            | 5393                | 4,48         | 242        | 184                    | 426              |
| Muud tõud         |               | 2             | 4050                | 4,06         | 164        | 129                    | 293              | 3             | 5095                | 4,18         | 213        | 160                    | 373              | 6             | 4397                | 4,64         | 204        | 151                    | 355              |
| Kokku             | <b>1317</b>   | <b>8847</b>   | <b>3,86</b>         | <b>341</b>   | <b>309</b> | <b>650</b>             | <b>1039</b>      | <b>10109</b>  | <b>3,99</b>         | <b>403</b>   | <b>352</b> | <b>755</b>             | <b>1467</b>      | <b>10452</b>  | <b>3,93</b>         | <b>411</b>   | <b>342</b> | <b>769</b>             |                  |
| Tartu             | EPK           | 167           | 8763                | 3,91         | 342        | 309                    | 651              | 172           | 10332               | 3,89         | 402        | 365                    | 766              | 313           | 10338               | 3,89         | 402        | 358                    | 760              |
|                   | EHF           | 1464          | 9657                | 3,79         | 366        | 326                    | 692              | 1133          | 11333               | 3,70         | 419        | 382                    | 801              | 1285          | 11722               | 3,75         | 439        | 392                    | 831              |
|                   | EK            |               |                     |              |            |                        |                  | 1             | 7344                | 4,50         | 331        | 257                    | 587              | 5             | 6300                | 4,93         | 310        | 224                    | 534              |
| Muud tõud         |               | 10            | 7367                | 2,99         | 221        | 263                    | 483              | 19            | 7797                | 2,99         | 233        | 277                    | 510              | 3             | 7025                | 3,08         | 217        | 240                    | 456              |
| Kokku             | <b>1641</b>   | <b>9552</b>   | <b>3,80</b>         | <b>363</b>   | <b>324</b> | <b>687</b>             | <b>1325</b>      | <b>11149</b>  | <b>3,72</b>         | <b>414</b>   | <b>378</b> | <b>792</b>             | <b>1606</b>      | <b>11426</b>  | <b>3,77</b>         | <b>431</b>   | <b>336</b> | <b>816</b>             |                  |
| Valga             | EPK           | 369           | 8403                | 4,12         | 346        | 297                    | 643              | 280           | 10139               | 4,15         | 421        | 352                    | 773              | 449           | 10519               | 4,07         | 428        | 362                    | 790              |
|                   | EHF           | 727           | 9840                | 3,81         | 375        | 326                    | 701              | 506           | 12021               | 3,79         | 456        | 396                    | 851              | 489           | 12070               | 3,86         | 466        | 390                    | 856              |
|                   | Muud tõud     | 2             | 4923                | 4,37         | 215        | 157                    | 372              | 7             | 7209                | 4,51         | 325        | 265                    | 590              | 11            | 6547                | 4,40         | 288        | 222                    | 510              |
| Kokku             | <b>1098</b>   | <b>9348</b>   | <b>3,90</b>         | <b>365</b>   | <b>316</b> | <b>681</b>             | <b>793</b>       | <b>11314</b>  | <b>3,91</b>         | <b>442</b>   | <b>335</b> | <b>821</b>             | <b>949</b>       | <b>11272</b>  | <b>3,96</b>         | <b>446</b>   | <b>333</b> | <b>821</b>             |                  |
| Viljandi          | EPK           | 393           | 8964                | 4,04         | 362        | 312                    | 674              | 366           | 10256               | 4,07         | 417        | 358                    | 775              | 696           | 10712               | 4,03         | 432        | 366                    | 798              |
|                   | EHF           | 1462          | 8505                | 4,01         | 341        | 291                    | 632              | 1006          | 10689               | 3,82         | 408        | 360                    | 768              | 1275          | 10815               | 3,87         | 418        | 360                    | 778              |
|                   | EK            | 9             | 4750                | 4,28         | 203        | 162                    | 365              | 7             | 4047                | 5,01         | 203        | 150                    | 353              | 20            | 4089                | 4,53         | 185        | 142                    | 327              |
| Muud tõud         |               | 4             | 4726                | 4,23         | 200        | 162                    | 362              | 2             | 9349                | 3,76         | 352        | 293                    | 645              | 6             | 5129                | 3,87         | 198        | 164                    | 362              |
| Kokku             | <b>1868</b>   | <b>8576</b>   | <b>4,02</b>         | <b>345</b>   | <b>294</b> | <b>639</b>             | <b>1381</b>      | <b>10539</b>  | <b>3,89</b>         | <b>410</b>   | <b>358</b> | <b>768</b>             | <b>1997</b>      | <b>10694</b>  | <b>3,93</b>         | <b>420</b>   | <b>336</b> | <b>779</b>             |                  |
| Võru              | EPK           | 162           | 6718                | 4,09         | 275        | 228                    | 503              | 133           | 7721                | 4,06         | 314        | 267                    | 581              | 228           | 8255                | 4,06         | 335        | 278                    | 613              |
|                   | EHF           | 308           | 8344                | 4,02         | 335        | 280                    | 616              | 212           | 10653               | 3,96         | 422        | 357                    | 779              | 244           | 9686                | 3,96         | 383        | 321                    | 704              |
|                   | EK            |               |                     |              |            |                        |                  |               |                     |              |            |                        |                  | 3             | 5059                | 4,56         | 231        | 175                    | 405              |
| Muud tõud         |               | 3             | 4275                | 4,63         | 198        | 152                    | 350              | 3             | 5148                | 4,55         | 234        | 179                    | 413              | 3             | 5888                | 3,86         | 227        | 188                    | 415              |
| Kokku             | <b>473</b>    | <b>7761</b>   | <b>4,04</b>         | <b>314</b>   | <b>262</b> | <b>575</b>             | <b>348</b>       | <b>9485</b>   | <b>3,99</b>         | <b>379</b>   | <b>321</b> | <b>700</b>             | <b>478</b>       | <b>8951</b>   | <b>4,00</b>         | <b>358</b>   | <b>334</b> | <b>299</b>             |                  |

## 29. Piimatoodang aastalehma kohta maakondades

Annual milk yield per cow in counties



### 30. Toodang aastalehma kohta maakondades tõugude viisi

Production data of Estonian dairy breeds in counties

| Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Piima<br>Milk<br>kg | Rasva<br>Fat<br>% | Rasva<br>Fat<br>kg | Valku<br>Protein<br>% | Valku<br>Protein<br>kg | R+V<br>F+P<br>kg | SRA<br>SCC |
|-------------------|---------------|--------------------|---------------------|-------------------|--------------------|-----------------------|------------------------|------------------|------------|
| Harju             | EPK           | 94                 | 7705                | 4,37              | 336                | 3,58                  | 276                    | 612              | 387        |
|                   | EHF           | 3648               | 9905                | 3,90              | 386                | 3,37                  | 333                    | 719              | 280        |
|                   | EK            | 148                | 4943                | 4,63              | 229                | 3,51                  | 173                    | 402              | 461        |
|                   | Muud tõud     | 15                 | 6945                | 4,02              | 279                | 3,44                  | 239                    | 518              | 248        |
|                   | Kokku         | <b>3906</b>        | <b>9652</b>         | <b>3,92</b>       | <b>378</b>         | <b>3,37</b>           | <b>326</b>             | <b>704</b>       | <b>285</b> |
| Hiiu              | EPK           | 68                 | 5496                | 4,31              | 237                | 3,61                  | 199                    | 435              | 533        |
|                   | EHF           | 531                | 8810                | 4,03              | 355                | 3,37                  | 297                    | 651              | 218        |
|                   | EK            | 10                 | 6262                | 4,33              | 271                | 3,60                  | 226                    | 497              | 184        |
|                   | Muud tõud     | 3                  | 5145                | 3,70              | 190                | 3,27                  | 168                    | 359              | 73         |
|                   | Kokku         | <b>612</b>         | <b>8381</b>         | <b>4,05</b>       | <b>339</b>         | <b>3,39</b>           | <b>284</b>             | <b>623</b>       | <b>242</b> |
| Ida-Viru          | EPK           | 222                | 6416                | 4,29              | 275                | 3,56                  | 228                    | 504              | 329        |
|                   | EHF           | 760                | 7881                | 4,11              | 324                | 3,49                  | 275                    | 599              | 382        |
|                   | EK            | 5                  | 4513                | 4,37              | 197                | 3,37                  | 152                    | 349              | 203        |
|                   | Muud tõud     | 51                 | 3954                | 4,19              | 166                | 3,16                  | 125                    | 291              | 854        |
|                   | Kokku         | <b>1038</b>        | <b>7359</b>         | <b>4,15</b>       | <b>305</b>         | <b>3,49</b>           | <b>257</b>             | <b>562</b>       | <b>384</b> |
| Jõgeva            | EPK           | 1080               | 9683                | 4,27              | 413                | 3,62                  | 350                    | 764              | 229        |
|                   | EHF           | 6210               | 11007               | 3,95              | 435                | 3,44                  | 378                    | 813              | 241        |
|                   | EK            | 7                  | 6359                | 4,21              | 267                | 3,46                  | 220                    | 487              | 338        |
|                   | Muud tõud     | 3                  | 5355                | 4,27              | 229                | 3,56                  | 191                    | 419              | 933        |
|                   | Kokku         | <b>7299</b>        | <b>10805</b>        | <b>3,99</b>       | <b>431</b>         | <b>3,46</b>           | <b>374</b>             | <b>806</b>       | <b>239</b> |
| Järva             | EPK           | 179                | 9270                | 4,05              | 376                | 3,55                  | 329                    | 705              | 220        |
|                   | EHF           | 12919              | 11354               | 3,90              | 442                | 3,40                  | 386                    | 828              | 219        |
|                   | EK            | 61                 | 4417                | 4,37              | 193                | 3,48                  | 154                    | 347              | 359        |
|                   | Muud tõud     | 45                 | 7936                | 4,45              | 353                | 3,66                  | 291                    | 644              | 183        |
|                   | Kokku         | <b>13204</b>       | <b>11282</b>        | <b>3,90</b>       | <b>440</b>         | <b>3,40</b>           | <b>384</b>             | <b>824</b>       | <b>220</b> |
| Lääne             | EPK           | 9                  | 7143                | 4,12              | 294                | 3,52                  | 251                    | 545              | 512        |
|                   | EHF           | 1049               | 10285               | 3,94              | 406                | 3,37                  | 347                    | 752              | 189        |
|                   | Muud tõud     | 1                  | 6317                | 4,13              | 261                | 3,54                  | 223                    | 484              | 625        |
|                   | Kokku         | <b>1059</b>        | <b>10253</b>        | <b>3,94</b>       | <b>404</b>         | <b>3,37</b>           | <b>346</b>             | <b>750</b>       | <b>191</b> |
|                   | Lääne-Viru    | EPK                | 275                 | 9982              | 4,01               | 400                   | 3,50                   | 349              | 749        |
| EHF               |               | 9776               | 10994               | 3,95              | 434                | 3,43                  | 377                    | 811              | 190        |
| EK                |               | 6                  | 4132                | 4,88              | 202                | 3,53                  | 146                    | 348              | 128        |
| Muud              |               | 11                 | 4835                | 4,44              | 215                | 3,39                  | 164                    | 379              | 238        |
| Kokku             |               | <b>10067</b>       | <b>10956</b>        | <b>3,95</b>       | <b>433</b>         | <b>3,43</b>           | <b>376</b>             | <b>809</b>       | <b>190</b> |
| Põlva             | EPK           | 816                | 10064               | 4,10              | 412                | 3,45                  | 347                    | 759              | 201        |
|                   | EHF           | 4851               | 11528               | 3,89              | 448                | 3,31                  | 382                    | 830              | 180        |
|                   | Kokku         | <b>5667</b>        | <b>11317</b>        | <b>3,91</b>       | <b>443</b>         | <b>3,33</b>           | <b>377</b>             | <b>820</b>       | <b>183</b> |
| Pärnu             | EPK           | 97                 | 7290                | 4,09              | 298                | 3,38                  | 247                    | 545              | 296        |
|                   | EHF           | 9731               | 11026               | 3,88              | 427                | 3,36                  | 370                    | 797              | 231        |
|                   | EK            | 107                | 5210                | 4,53              | 236                | 3,43                  | 178                    | 415              | 388        |
|                   | Muud tõud     | 31                 | 6209                | 4,24              | 264                | 3,33                  | 207                    | 470              | 206        |
|                   | Kokku         | <b>9966</b>        | <b>10912</b>        | <b>3,88</b>       | <b>424</b>         | <b>3,36</b>           | <b>366</b>             | <b>790</b>       | <b>232</b> |
| Rapla             | EPK           | 22                 | 10421               | 3,95              | 412                | 3,44                  | 358                    | 770              | 333        |
|                   | EHF           | 5718               | 10437               | 4,02              | 419                | 3,41                  | 355                    | 775              | 238        |
|                   | EK            | 44                 | 2165                | 4,61              | 100                | 3,61                  | 78                     | 178              | 551        |
|                   | Muud tõud     | 8                  | 7287                | 4,00              | 291                | 3,39                  | 247                    | 539              | 313        |
|                   | Kokku         | <b>5793</b>        | <b>10369</b>        | <b>4,02</b>       | <b>417</b>         | <b>3,41</b>           | <b>353</b>             | <b>770</b>       | <b>239</b> |
| Saare             | EPK           | 2144               | 8415                | 4,24              | 357                | 3,54                  | 298                    | 654              | 237        |
|                   | EHF           | 2344               | 11591               | 3,84              | 445                | 3,46                  | 402                    | 846              | 198        |
|                   | EK            | 195                | 4778                | 4,57              | 218                | 3,43                  | 164                    | 382              | 328        |
|                   | Muud tõud     | 17                 | 4139                | 4,38              | 181                | 3,43                  | 142                    | 324              | 260        |
|                   | Kokku         | <b>4700</b>        | <b>9832</b>         | <b>4,01</b>       | <b>394</b>         | <b>3,49</b>           | <b>343</b>             | <b>738</b>       | <b>215</b> |
| Tartu             | EPK           | 782                | 10033               | 3,98              | 400                | 3,51                  | 352                    | 752              | 215        |
|                   | EHF           | 4739               | 11101               | 3,83              | 425                | 3,39                  | 376                    | 801              | 214        |
|                   | EK            | 9                  | 5461                | 4,94              | 270                | 3,55                  | 194                    | 464              | 129        |
|                   | Muud tõud     | 38                 | 7576                | 3,40              | 258                | 3,55                  | 269                    | 527              | 92         |
|                   | Kokku         | <b>5569</b>        | <b>10918</b>        | <b>3,85</b>       | <b>420</b>         | <b>3,41</b>           | <b>372</b>             | <b>792</b>       | <b>213</b> |

### 30. ...järg ...continued

| Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Piima<br>Milk<br>kg | Rasva<br>Fat<br>% | Rasva<br>Fat<br>kg | Valku<br>Protein<br>% | Valku<br>Protein<br>kg | R+V<br>F+P<br>kg | SRA<br>SCC |
|-------------------|---------------|--------------------|---------------------|-------------------|--------------------|-----------------------|------------------------|------------------|------------|
| Valga             | EPK           | 1295               | 9825                | 4,10              | 402                | 3,50                  | 344                    | 746              | 327        |
|                   | EHF           | 2076               | 11661               | 3,86              | 450                | 3,31                  | 385                    | 836              | 192        |
|                   | Muud tõud     | 25                 | 6392                | 4,70              | 301                | 3,66                  | 234                    | 535              | 227        |
|                   | Kokku         | <b>3395</b>        | <b>10922</b>        | <b>3,94</b>       | <b>431</b>         | <b>3,37</b>           | <b>368</b>             | <b>799</b>       | <b>239</b> |
| Viljandi          | EPK           | 1782               | 9985                | 4,11              | 410                | 3,49                  | 348                    | 759              | 249        |
|                   | EHF           | 4558               | 10055               | 4,04              | 406                | 3,42                  | 344                    | 750              | 227        |
|                   | EK            | 76                 | 2731                | 4,65              | 127                | 3,59                  | 98                     | 225              | 659        |
|                   | Muud tõud     | 20                 | 4130                | 3,94              | 163                | 3,34                  | 138                    | 301              | 280        |
|                   | Kokku         | <b>6435</b>        | <b>9931</b>         | <b>4,06</b>       | <b>403</b>         | <b>3,44</b>           | <b>342</b>             | <b>745</b>       | <b>235</b> |
| Võru              | EPK           | 676                | 7558                | 4,12              | 312                | 3,44                  | 260                    | 572              | 392        |
|                   | EHF           | 1053               | 9035                | 4,13              | 373                | 3,37                  | 305                    | 678              | 271        |
|                   | EK            | 4                  | 5189                | 4,52              | 235                | 3,36                  | 174                    | 409              | 483        |
|                   | Muud tõud     | 14                 | 4368                | 4,24              | 185                | 3,50                  | 153                    | 338              | 214        |
|                   | Kokku         | <b>1746</b>        | <b>8418</b>         | <b>4,13</b>       | <b>348</b>         | <b>3,40</b>           | <b>286</b>             | <b>633</b>       | <b>314</b> |
| Eesti<br>Estonia  | EPK           | 9541               | 9235                | 4,14              | 382                | 3,51                  | 324                    | 707              | 258        |
|                   | EHF           | 69962              | 10896               | 3,92              | 427                | 3,39                  | 370                    | 797              | 220        |
|                   | EK            | 671                | 4489                | 4,56              | 205                | 3,47                  | 156                    | 361              | 396        |
|                   | Muud tõud     | 282                | 5916                | 4,15              | 245                | 3,48                  | 206                    | 451              | 283        |
|                   | Kokku         | <b>80456</b>       | <b>10628</b>        | <b>3,95</b>       | <b>419</b>         | <b>3,41</b>           | <b>362</b>             | <b>782</b>       | <b>225</b> |

### 31. Suurima 305 päeva laktatsiooni piima rasva- ja valgutoodanguga lehmad

Top cows ranked by 305-d lactation fat and protein yield

| Jrk. nr<br>No.               | Reg. nr<br>Reg. no. | Omanik<br>Owner                   | Maakond<br>County | Lakt. nr<br>Lact. no. | 305 päeva laktatsiooni toodang<br>305-d lactation yield |                   |                    |                       |                        |                  |
|------------------------------|---------------------|-----------------------------------|-------------------|-----------------------|---|-------------------|--------------------|-----------------------|------------------------|------------------|
|                              |                     |                                   |                   |                       | piima<br>milk<br>kg                                     | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| Eesti punane<br>Estonian Red |                     |                                   |                   |                       |   |                   |                    |                       |                        |                  |
| 1                            | 19735771            | Aktsiaselts Laatre Piim           | Valga             | 2                     | 17275   | 4,27              | 737                | 3,53                  | 610                    | 1348             |
| 2                            | 18250046            | Peri Põllumajanduslik AS          | Põlva             | 5                     | 16724   | 4,42              | 739                | 3,38                  | 565                    | 1304             |
| 3                            | 20555252            | Peri Põllumajanduslik AS          | Põlva             | 3                     | 15924   | 4,66              | 742                | 3,33                  | 530                    | 1272             |
| 4                            | 19739076            | Aktsiaselts Laatre Piim           | Valga             | 2                     | 14926   | 4,86              | 725                | 3,57                  | 533                    | 1258             |
| 5                            | 18772197            | AS Tartu Agro                     | Tartu             | 4                     | 14097   | 5,14              | 725                | 3,78                  | 533                    | 1258             |
| 6                            | 20529550            | Osaühing Kõpu PM                  | Viljandi          | 2                     | 14671   | 5,23              | 768                | 3,34                  | 489                    | 1257             |
| 7                            | 19238586            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 14757   | 4,99              | 737                | 3,42                  | 505                    | 1242             |
| 8                            | 17971904            | AS Tartu Agro                     | Tartu             | 4                     | 15745   | 3,96              | 623                | 3,72                  | 586                    | 1209             |
| 9                            | 19893013            | Osaühing Härjanurme Mõis          | Jõgeva            | 3                     | 14780   | 4,42              | 654                | 3,70                  | 547                    | 1201             |
| 10                           | 19067193            | Kõljala Põllumajanduslik Osaühing | Saare             | 3                     | 17421   | 3,42              | 596                | 3,46                  | 602                    | 1198             |
| 11                           | 19238593            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 15076   | 4,08              | 615                | 3,85                  | 580                    | 1195             |
| 12                           | 18172263            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 14321   | 4,80              | 687                | 3,52                  | 504                    | 1191             |
| 13                           | 15160782            | Kõljala Põllumajanduslik Osaühing | Saare             | 5                     | 17575   | 3,52              | 618                | 3,20                  | 562                    | 1180             |
| 14                           | 16664760            | AS Tartu Agro                     | Tartu             | 5                     | 15617   | 3,89              | 608                | 3,67                  | 572                    | 1180             |
| 15                           | 20529758            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 15282   | 4,32              | 660                | 3,40                  | 520                    | 1180             |
| 16                           | 18161359            | Kõljala Põllumajanduslik Osaühing | Saare             | 3                     | 15166   | 4,40              | 667                | 3,38                  | 512                    | 1179             |
| 17                           | 17970761            | AS Tartu Agro                     | Tartu             | 4                     | 14533   | 4,47              | 650                | 3,64                  | 529                    | 1179             |
| 18                           | 16853362            | Osaühing Kõpu PM                  | Viljandi          | 5                     | 15909   | 4,09              | 651                | 3,31                  | 527                    | 1178             |
| 19                           | 19889894            | Kaska-Luiga OÜ                    | Põlva             | 3                     | 13616   | 5,08              | 691                | 3,58                  | 487                    | 1178             |
| 20                           | 19238722            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 16556   | 3,82              | 633                | 3,29                  | 544                    | 1177             |
| 21                           | 17929011            | Aktsiaselts Laatre Piim           | Valga             | 3                     | 15320   | 4,44              | 680                | 3,22                  | 493                    | 1173             |
| 22                           | 18170313            | Osaühing Kõpu PM                  | Viljandi          | 5                     | 15549   | 4,04              | 628                | 3,50                  | 544                    | 1172             |
| 23                           | 16853744            | Osaühing Kõpu PM                  | Viljandi          | 4                     | 16354   | 3,84              | 628                | 3,32                  | 543                    | 1171             |
| 24                           | 20530396            | Osaühing Kõpu PM                  | Viljandi          | 3                     | 12829   | 5,12              | 657                | 3,96                  | 509                    | 1166             |
| 25                           | 15160454            | Kõljala Põllumajanduslik Osaühing | Saare             | 5                     | 15820   | 3,75              | 594                | 3,61                  | 571                    | 1165             |

31. ...järg  
...continued

| Jrk. nr<br>No.                                    | Reg. nr<br>Reg. no. | Omanik<br>Owner                   | Maakond<br>County | Lakt. nr<br>Lact. no. | 305 päeva laktatsiooni toodang<br>305-d lactation yield |                   |                    |                       |                        |                  |
|---|---------------------|-----------------------------------|-------------------|-----------------------|---|-------------------|--------------------|-----------------------|------------------------|------------------|
|   |                     |                                   |                   |                       | piima<br>milk<br>kg                                     | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| <b>Eesti holstein</b><br><i>Estonian Holstein</i> |                     |                                   |                   |                       |   |                   |                    |                       |                        |                  |
| 1   | 19068305            | Valjala Põllumajanduslik Osäühing | Saare             | 3                     | 18175   | 4,37              | 793                | 3,70                  | 672                    | 1466             |
| 2   | 19892863            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 15281   | 5,90              | 902                | 3,64                  | 556                    | 1458             |
| 3   | 20246327            | Peri Põllumajanduslik AS          | Põlva             | 3                     | 18543   | 4,40              | 816                | 3,25                  | 603                    | 1419             |
| 4   | 16752429            | Kõljala Põllumajanduslik Osäühing | Saare             | 5                     | 18259   | 4,40              | 804                | 3,21                  | 586                    | 1390             |
| 5   | 18839692            | Aksiaselts Vändra                 | Pärnu             | 4                     | 17960   | 4,36              | 783                | 3,37                  | 605                    | 1388             |
| 6   | 21355097            | Osäühing Härjanurme Mõis          | Jõgeva            | 2                     | 17243   | 4,37              | 754                | 3,64                  | 628                    | 1381             |
| 7   | 19891897            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 17476   | 4,35              | 761                | 3,54                  | 619                    | 1380             |
| 8   | 19851693            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 15494   | 5,00              | 775                | 3,89                  | 602                    | 1377             |
| 9   | 19560052            | Osäühing Hummulu Agro             | Valga             | 4                     | 17906   | 4,41              | 790                | 3,24                  | 580                    | 1370             |
| 10  | 18057676            | Kõljala Põllumajanduslik Osäühing | Saare             | 4                     | 22312   | 3,16              | 704                | 2,95                  | 659                    | 1364             |
| 11  | 19802732            | Osäühing Kaiu LT                  | Rapla             | 3                     | 19034   | 3,90              | 742                | 3,25                  | 618                    | 1360             |
| 12  | 14638725            | Kõljala Põllumajanduslik Osäühing | Saare             | 6                     | 22893   | 2,76              | 631                | 3,17                  | 725                    | 1356             |
| 13  | 19136738            | Osäühing Kaiu LT                  | Rapla             | 4                     | 19356   | 3,76              | 728                | 3,23                  | 626                    | 1354             |
| 14  | 19851785            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 15776   | 4,98              | 785                | 3,60                  | 568                    | 1353             |
| 15  | 19891163            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 17722   | 4,09              | 724                | 3,54                  | 628                    | 1352             |
| 16  | 18835625            | Aksiaselts Vändra                 | Pärnu             | 4                     | 17792   | 4,71              | 839                | 2,87                  | 512                    | 1350             |
| 17  | 20246488            | Aksiaselts Vändra                 | Pärnu             | 3                     | 16619   | 4,74              | 787                | 3,37                  | 560                    | 1347             |
| 18  | 19067537            | Kõljala Põllumajanduslik Osäühing | Saare             | 3                     | 20367   | 3,18              | 647                | 3,43                  | 699                    | 1346             |
| 19  | 20096410            | Aksiaselts Vändra                 | Pärnu             | 3                     | 17943   | 4,17              | 749                | 3,33                  | 597                    | 1346             |
| 20  | 17930574            | Osäühing Vändra Vara              | Pärnu             | 5                     | 20518   | 3,60              | 739                | 2,95                  | 605                    | 1345             |
| 21  | 17074186            | Osäühing Kaiu LT                  | Rapla             | 5                     | 17327   | 4,53              | 785                | 3,16                  | 548                    | 1333             |
| 22  | 18767995            | Osäühing Metstaguse Agro          | Järva             | 4                     | 17115   | 4,53              | 775                | 3,25                  | 557                    | 1332             |
| 23  | 19849782            | Osäühing Härjanurme Mõis          | Jõgeva            | 3                     | 16674   | 4,39              | 732                | 3,58                  | 596                    | 1329             |
| 24  | 19781921            | Torma Põllumajandusosaühing       | Jõgeva            | 3                     | 16970   | 4,59              | 780                | 3,22                  | 547                    | 1327             |
| 25  | 20247218            | Osäühing Hummulu Agro             | Valga             | 3                     | 16010   | 5,09              | 815                | 3,20                  | 512                    | 1327             |
| <b>Eesti maatõug</b><br><i>Estonian Native</i>    |                     |                                   |                   |                       |   |                   |                    |                       |                        |                  |
| 1   | 18256123            | Osäühing Variin Agro              | Pärnu             | 3                     | 9664  | 4,68              | 452                | 3,25                  | 315                    | 767              |
| 2   | 18122190            | Osäühing Pihla                    | Hiiu              | 2                     | 9099  | 4,49              | 409                | 3,55                  | 323                    | 732              |
| 3   | 13855574            | Osäühing Pihla                    | Hiiu              | 6                     | 9186  | 4,32              | 397                | 3,60                  | 331                    | 728              |
| 4   | 18619829            | Osäühing Variin Agro              | Pärnu             | 3                     | 8537  | 4,30              | 367                | 3,70                  | 316                    | 683              |
| 5   | 18122138            | Osäühing Pihla                    | Hiiu              | 2                     | 8194  | 4,42              | 362                | 3,81                  | 312                    | 674              |
| 6   | 22783899            | Tammsaare OÜ                      | Järva             | 1                     | 8019  | 4,50              | 361                | 3,61                  | 289                    | 650              |
| 7   | 17914390            | Eelar Sammleri Kuriste talu       | Järva             | 5                     | 7749  | 4,67              | 362                | 3,72                  | 288                    | 650              |
| 8   | 18619881            | Osäühing Variin Agro              | Pärnu             | 4                     | 7928  | 4,76              | 377                | 3,39                  | 269                    | 646              |
| 9   | 15663313            | OÜ Soomill                        | Harju             | 3                     | 8445  | 3,99              | 337                | 3,56                  | 300                    | 638              |
| 10  | 18301236            | Osäühing Variin Agro              | Pärnu             | 4                     | 7315  | 5,06              | 370                | 3,60                  | 264                    | 633              |
| 11  | 19672960            | Muuluka Farm OÜ                   | Harju             | 3                     | 7721  | 4,83              | 373                | 3,30                  | 255                    | 628              |
| 12  | 19673295            | Muuluka Farm OÜ                   | Harju             | 2                     | 8060  | 4,29              | 346                | 3,38                  | 272                    | 618              |
| 13  | 15911162            | Muuluka Farm OÜ                   | Harju             | 6                     | 7543  | 4,82              | 364                | 3,36                  | 253                    | 617              |
| 14  | 20264895            | Muuluka Farm OÜ                   | Harju             | 1                     | 7326  | 4,88              | 357                | 3,55                  | 260                    | 617              |
| 15  | 17267915            | Muuluka Farm OÜ                   | Harju             | 3                     | 8199  | 4,15              | 340                | 3,35                  | 275                    | 615              |
| 16  | 18856910            | Muuluka Farm OÜ                   | Harju             | 3                     | 7562  | 4,98              | 377                | 3,14                  | 238                    | 614              |
| 17  | 13701390            | Muuluka Farm OÜ                   | Harju             | 6                     | 7855  | 4,50              | 354                | 3,30                  | 259                    | 613              |
| 18  | 19557786            | Salme Põllumajanduse Osäühing     | Saare             | 3                     | 8188  | 4,00              | 327                | 3,44                  | 282                    | 609              |
| 19  | 17608398            | Osäühing Eerika Farm              | Tartu             | 4                     | 7060  | 4,87              | 344                | 3,68                  | 260                    | 604              |
| 20  | 17608251            | Osäühing Eerika Farm              | Tartu             | 5                     | 6993  | 4,93              | 345                | 3,70                  | 258                    | 603              |
| 21  | 13372545            | Muuluka Farm OÜ                   | Harju             | 6                     | 7908  | 4,38              | 347                | 3,18                  | 252                    | 598              |
| 22  | 13551766            | Lau Raja talu                     | Rapla             | 7                     | 7424  | 4,10              | 304                | 3,93                  | 292                    | 596              |
| 23  | 15663238            | OÜ Soomill                        | Harju             | 3                     | 8031  | 4,01              | 322                | 3,38                  | 272                    | 594              |
| 24  | 13899097            | Muuluka Farm OÜ                   | Harju             | 6                     | 7956  | 4,19              | 333                | 3,28                  | 261                    | 594              |
| 25  | 20506667            | Aix Trading OÜ                    | Pärnu             | 2                     | 7909  | 4,20              | 332                | 3,26                  | 258                    | 590              |

## 32. Suurima eluea piimatoodanguga lehmad 2022. aastal

Best lifetime production cows

| Jrk. nr<br>No.                                    | Reg. nr<br>Reg. no. | Nimi<br>Name | Omanik<br>Owner                  | Maakond<br>County | Sünniaeg<br>Date of birth | Piima<br>Milk<br>kg | Rasva<br>Fat<br>% | Valku<br>Protein<br>% | R+V<br>F+P<br>kg |
|---|---------------------|--------------|----------------------------------|-------------------|---------------------------|---------------------|-------------------|-----------------------|------------------|
| <b>Eesti punane</b><br><i>Estonian Red</i>        |                     |              |                                  |                   |                           |                     |                   |                       |                  |
| 1   | 11450634            | Killi        | AS Tartu Agro                    | Tartu             | 25.11.2009                | 153227              | 3,61              | 3,27                  | 10546            |
| 2   | 11452348            |              | AS Tartu Agro                    | Tartu             | 30.07.2010                | 127544              | 3,88              | 3,46                  | 9353             |
| 3   | 11450146            |              | AS Tartu Agro                    | Tartu             | 30.09.2009                | 123555              | 3,18              | 3,44                  | 8180             |
| 4   | 12282715            | Urme         | OÜ Kesa-Agro                     | Valga             | 16.04.2011                | 123511              | 3,70              | 3,62                  | 9038             |
| 5   | 12245246            | Kullake      | Kõljala Põllumajanduslik Osühing | Saare             | 25.02.2011                | 120079              | 3,67              | 3,33                  | 8397             |
| 6   | 13658090            |              | AS Tartu Agro                    | Tartu             | 06.10.2012                | 118360              | 3,54              | 2,77                  | 7470             |
| 7   | 11298281            | Nelgi        | Kõljala Põllumajanduslik Osühing | Saare             | 23.12.2009                | 116492              | 4,64              | 3,90                  | 9945             |
| 8   | 13256234            | Kissu        | Kõljala Põllumajanduslik Osühing | Saare             | 14.01.2012                | 116142              | 3,68              | 3,47                  | 8297             |
| 9   | 8187871             | Mustik       | Osühing Saimre                   | Viljandi          | 18.10.2008                | 113473              | 4,07              | 3,61                  | 8721             |
| 10  | 11399131            | Preili       | OÜ Tõntso Agro                   | Valga             | 13.12.2009                | 112195              | 3,93              | 3,22                  | 8024             |
| <b>Eesti holstein</b><br><i>Estonian Holstein</i> |                     |              |                                  |                   |                           |                     |                   |                       |                  |
| 1   | 11530022            | Leenu        | Aktsiaselts Metsaküla Piim       | Harju             | 01.01.2010                | 143850              | 3,68              | 3,12                  | 9788             |
| 2   | 12135714            | Ubin         | Kabala Agro Osühing              | Järva             | 06.08.2010                | 140543              | 3,93              | 3,18                  | 9986             |
| 3   | 10088302            |              | Aktsiaselts Võhmata PM           | Lääne-Viru        | 12.07.2008                | 138485              | 3,33              | 2,98                  | 8740             |
| 4   | 14638725            | Mille        | Kõljala Põllumajanduslik Osühing | Saare             | 27.03.2013                | 130264              | 3,01              | 3,28                  | 8192             |
| 5   | 13601614            | Susi         | Aktsiaselts Vändra               | Pärnu             | 25.11.2011                | 127963              | 3,37              | 3,18                  | 8390             |
| 6   | 11129769            |              | AS Tartu Agro                    | Tartu             | 04.03.2010                | 126834              | 3,38              | 3,10                  | 8224             |
| 7   | 11706519            |              | AS Peetri Põld ja Piim           | Järva             | 16.10.2010                | 126199              | 3,04              | 3,07                  | 7718             |
| 8   | 13601850            | Virge        | Aktsiaselts Vändra               | Pärnu             | 09.12.2011                | 125888              | 3,43              | 3,18                  | 8325             |
| 9   | 14148385            | Paula        | Kõljala Põllumajanduslik Osühing | Saare             | 23.07.2012                | 122254              | 3,68              | 3,47                  | 8736             |
| 10  | 12355822            |              | AS Tartu Agro                    | Tartu             | 18.12.2011                | 119735              | 4,04              | 3,63                  | 9176             |
| <b>Eesti maatõug</b><br><i>Estonian Native</i>    |                     |              |                                  |                   |                           |                     |                   |                       |                  |
| 1   | 7333996             | Loppu        | Osühing Kurena Farmid            | Pärnu             | 13.03.2006                | 73149               | 4,42              | 3,22                  | 5584             |
| 2   | 9147195             | Tiku         | Muuluka Farm OÜ                  | Harju             | 03.03.2008                | 70353               | 4,62              | 3,58                  | 5767             |
| 3   | 7841392             | Maira        | Muuluka Farm OÜ                  | Harju             | 12.01.2008                | 60258               | 3,75              | 3,31                  | 4254             |
| 4   | 12936335            | Pihlakas     | Osühing Karukämmal               | Harju             | 23.12.2011                | 59644               | 4,37              | 3,43                  | 4653             |
| 5   | 13855574            | Nolde        | Osühing Pihla                    | Hiiu              | 22.10.2012                | 58375               | 4,30              | 3,67                  | 4655             |
| 6   | 13495947            | Pässi        | Salme Põllumajanduse Osühing     | Saare             | 26.04.2012                | 56121               | 4,93              | 3,63                  | 4802             |
| 7   | 13551766            |              | Lau Raja talu                    | Rapla             | 03.05.2012                | 55695               | 4,32              | 3,90                  | 4579             |
| 8   | 13741907            | Pung         | Osühing Karukämmal               | Harju             | 29.11.2012                | 54222               | 4,27              | 3,16                  | 4028             |
| 9   | 13372545            | Nupi         | Muuluka Farm OÜ                  | Harju             | 27.03.2012                | 54206               | 4,63              | 3,20                  | 4239             |
| 10  | 10027592            | Inna         | Muuluka Farm OÜ                  | Harju             | 21.02.2009                | 52791               | 3,88              | 3,18                  | 3728             |

### 33. Parimad jõudluskontrollikarjad rasva- ja valgutoodangu järgi

(Välja on toodud EHF, EPK, EK tõugu lehmade keskmised toodangud)

Best dairy herds by fat and protein yield

| Jrk. nr<br>No.  | Omanik<br>Owner               | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                    |                       |                        |                  |
|---|-------------------------------|-------------------|---------------|--------------------|--|-------------------|--------------------|-----------------------|------------------------|------------------|
|   |                               |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| <b>Karja suurus 3–100 lehma</b><br>Herd size 3–100 cows |                               |                   |               |                    |  |                   |                    |                       |                        |                  |
| 1   | OÜ Tinni                      | Tartu             | Kokku         | 62                 | 13718  | 3,12              | 428                | 3,48                  | 477                    | 905              |
|   |                               |                   | EPK           | 3                  | 11572  | 3,11              | 360                | 3,62                  | 419                    | 779              |
|   |                               |                   | EHF           | 59                 | 13811  | 3,12              | 431                | 3,47                  | 480                    | 911              |
| 2   | OÜ Luige Farmer               | Rapla             | EHF           | 71                 | 12868  | 3,60              | 463                | 3,41                  | 439                    | 903              |
| 3   | OÜ Mürkal                     | Järva             | EHF           | 60                 | 11286  | 4,06              | 458                | 3,47                  | 392                    | 850              |
| 4   | Lagendi OÜ                    | Pärnu             | EHF           | 58                 | 12031  | 3,75              | 451                | 3,30                  | 397                    | 849              |
| 5   | Vahur Kuresson                | Lääne-Viru        | Kokku         | 11                 | 10549  | 4,52              | 477                | 3,53                  | 372                    | 849              |
|   |                               |                   | EPK           | 1                  | 7337   | 5,59              | 410                | 4,45                  | 327                    | 737              |
|   |                               |                   | EHF           | 10                 | 10635  | 4,50              | 479                | 3,51                  | 374                    | 852              |
| 6   | Osühing Vambola               | Viljandi          | EHF           | 47                 | 10796  | 4,43              | 478                | 3,27                  | 353                    | 831              |
| 7   | Marelle Tombandi Soone talu   | Lääne-Viru        | Kokku         | 34                 | 12015  | 3,58              | 430                | 3,30                  | 396                    | 827              |
|   |                               |                   | EPK           | 6                  | 11266  | 3,70              | 417                | 3,47                  | 391                    | 808              |
|   |                               |                   | EHF           | 28                 | 12178  | 3,56              | 433                | 3,27                  | 398                    | 831              |
| 8   | Osühing Vaeküla Suurtalu      | Lääne-Viru        | Kokku         | 98                 | 11628  | 3,65              | 424                | 3,35                  | 389                    | 813              |
|   |                               |                   | EPK           | 5                  | 10727  | 3,54              | 380                | 3,31                  | 355                    | 735              |
|   |                               |                   | EHF           | 93                 | 11677  | 3,65              | 426                | 3,35                  | 391                    | 817              |
| 9   | Remmelgamaa OÜ                | Harju             | Kokku         | 70                 | 11058  | 3,98              | 440                | 3,36                  | 372                    | 812              |
|   |                               |                   | EPK           | 3                  | 9443   | 4,03              | 380                | 3,61                  | 341                    | 721              |
|   |                               |                   | EHF           | 63                 | 11469  | 3,95              | 453                | 3,36                  | 385                    | 837              |
|   |                               |                   | EK            | 4                  | 6383   | 4,78              | 305                | 3,31                  | 211                    | 516              |
| 10  | OÜ Udumäe                     | Viljandi          | EHF           | 55                 | 10725  | 4,09              | 439                | 3,42                  | 367                    | 806              |
| 11  | Osühing Vingi Suurtalu        | Viljandi          | EHF           | 54                 | 10573  | 4,18              | 441                | 3,44                  | 364                    | 805              |
| 12  | Varudi Lihaveis OÜ            | Lääne-Viru        | Kokku         | 37                 | 10110  | 4,43              | 448                | 3,47                  | 351                    | 799              |
|   |                               |                   | EPK           | 2                  | 9899   | 4,22              | 418                | 3,40                  | 337                    | 754              |
|   |                               |                   | EHF           | 35                 | 10123  | 4,45              | 450                | 3,48                  | 352                    | 802              |
| 13  | Takkasaare talu               | Järva             | EHF           | 99                 | 10152  | 4,37              | 444                | 3,33                  | 338                    | 781              |
| 14  | Madis Altmann                 | Pärnu             | EHF           | 8                  | 10581  | 3,82              | 404                | 3,50                  | 370                    | 775              |
| 15  | Purtse Farm OÜ                | Ida-Viru          | EHF           | 100                | 10197  | 4,10              | 418                | 3,48                  | 355                    | 773              |
| 16  | Merle Kaarelsoni Kallapa talu | Pärnu             | Kokku         | 93                 | 11042  | 3,63              | 401                | 3,35                  | 370                    | 771              |
|   |                               |                   | EHF           | 91                 | 11084  | 3,63              | 402                | 3,35                  | 372                    | 774              |
| 17  | Helme Noorloom OÜ             | Valga             | Kokku         | 37                 | 9811   | 4,28              | 420                | 3,57                  | 350                    | 770              |
|   |                               |                   | EPK           | 32                 | 9814   | 4,32              | 424                | 3,59                  | 352                    | 776              |
|   |                               |                   | EHF           | 5                  | 9789   | 4,04              | 396                | 3,41                  | 334                    | 730              |
| 18  | Tõnise-Baldespordi talu       | Rapla             | EHF           | 27                 | 10319  | 4,05              | 418                | 3,40                  | 351                    | 769              |
| 19  | OÜ Ahja Teenus                | Põlva             | Kokku         | 88                 | 10634  | 3,96              | 421                | 3,26                  | 347                    | 767              |
|   |                               |                   | EPK           | 5                  | 9572   | 4,09              | 391                | 3,11                  | 298                    | 689              |
|   |                               |                   | EHF           | 83                 | 10692  | 3,95              | 422                | 3,27                  | 349                    | 772              |

33. ...järg  
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| Jrk. nr<br>No. | Omanik<br>Owner             | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                        |                  |     |     |
|----------------|-----------------------------|-------------------|---------------|--------------------|--|-------------------|------------------------|------------------|-----|-----|
|                |                             |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |     |     |
| 20             | Liisupiim OÜ                | Lääne-Viru        | Kokku         | 66                 | 10832  | 3,69              | 399                    | 3,34             | 361 | 761 |
|                |                             |                   | EPK           | 1                  | 7765   | 3,77              | 293                    | 3,24             | 251 | 544 |
|                |                             |                   | EHF           | 65                 | 10869  | 3,69              | 401                    | 3,34             | 363 | 763 |
| 21             | Osaühing Allika Farmer      | Rapla             | EHF           | 98                 | 9671   | 4,38              | 424                    | 3,48             | 336 | 760 |
| 22             | OÜ Järvakandi Farmer        | Rapla             | EHF           | 99                 | 9496   | 4,47              | 424                    | 3,47             | 330 | 754 |
| 23             | Järvamaa Kutsehariduskeskus | Järva             | Kokku         | 79                 | 10345  | 3,71              | 384                    | 3,48             | 360 | 744 |
|                |                             |                   | EPK           | 49                 | 10473  | 3,83              | 401                    | 3,55             | 372 | 774 |
|                |                             |                   | EHF           | 28                 | 10372  | 3,48              | 361                    | 3,36             | 349 | 709 |
|                |                             |                   | EK            | 1                  | 4226   | 4,80              | 203                    | 3,58             | 151 | 354 |
| 24             | Sooaluste Veis OÜ           | Rapla             | EHF           | 10                 | 9566   | 4,21              | 402                    | 3,53             | 337 | 740 |
| 25             | OÜ Eoste Agro               | Põlva             | Kokku         | 89                 | 10151  | 4,00              | 406                    | 3,28             | 333 | 739 |
|                |                             |                   | EPK           | 16                 | 9364   | 4,14              | 387                    | 3,40             | 319 | 706 |
|                |                             |                   | EHF           | 73                 | 10318  | 3,97              | 410                    | 3,26             | 336 | 746 |
| 26             | OÜ Põllema Saare            | Järva             | Kokku         | 70                 | 9774   | 4,10              | 400                    | 3,45             | 338 | 738 |
|                |                             |                   | EPK           | 3                  | 7763   | 4,58              | 355                    | 3,58             | 278 | 633 |
|                |                             |                   | EHF           | 66                 | 9910   | 4,08              | 404                    | 3,45             | 342 | 746 |
| 27             | Valgesoo Agro OÜ            | Põlva             | Kokku         | 75                 | 9889   | 4,09              | 404                    | 3,30             | 326 | 730 |
|                |                             |                   | EPK           | 8                  | 9285   | 4,23              | 393                    | 3,32             | 308 | 701 |
|                |                             |                   | EHF           | 67                 | 9960   | 4,07              | 406                    | 3,29             | 328 | 734 |
| 28             | Valmaotsa Farmer OÜ         | Tartu             | EHF           | 60                 | 9934   | 3,92              | 390                    | 3,35             | 333 | 723 |
| 29             | Indrek Kaarelson            | Pärnu             | EHF           | 7                  | 10717  | 3,50              | 375                    | 3,23             | 346 | 722 |
| 30             | Põllusmaa Talu OÜ           | Lääne             | Kokku         | 26                 | 9797   | 4,03              | 395                    | 3,31             | 324 | 719 |
|                |                             |                   | EPK           | 2                  | 9311   | 4,02              | 374                    | 3,45             | 321 | 696 |
|                |                             |                   | EHF           | 24                 | 9832   | 4,03              | 396                    | 3,30             | 324 | 720 |
| 31             | Enn Aren                    | Viljandi          | Kokku         | 29                 | 9992   | 3,74              | 374                    | 3,44             | 344 | 717 |
|                |                             |                   | EPK           | 15                 | 10067  | 3,72              | 374                    | 3,46             | 348 | 722 |
|                |                             |                   | EHF           | 14                 | 9915   | 3,76              | 373                    | 3,42             | 339 | 713 |
| 32             | Muusika talu                | Harju             | EHF           | 22                 | 9745   | 3,87              | 377                    | 3,43             | 334 | 711 |
| 33             | Osaühing Väluste PL         | Viljandi          | Kokku         | 40                 | 9569   | 4,06              | 388                    | 3,34             | 320 | 708 |
|                |                             |                   | EPK           | 15                 | 9522   | 3,82              | 364                    | 3,29             | 314 | 678 |
|                |                             |                   | EHF           | 25                 | 9597   | 4,20              | 403                    | 3,37             | 324 | 727 |
| 34             | Osaühing Vaigu Farm         | Viljandi          | Kokku         | 60                 | 9139   | 4,27              | 390                    | 3,46             | 317 | 707 |
|                |                             |                   | EPK           | 5                  | 8774   | 3,99              | 350                    | 3,45             | 303 | 653 |
|                |                             |                   | EHF           | 55                 | 9172   | 4,29              | 394                    | 3,47             | 318 | 711 |
| 35             | Virila talu                 | Tartu             | Kokku         | 50                 | 9740   | 3,92              | 382                    | 3,32             | 323 | 705 |
|                |                             |                   | EPK           | 35                 | 9545   | 3,92              | 375                    | 3,32             | 317 | 692 |
|                |                             |                   | EHF           | 15                 | 10189  | 3,90              | 398                    | 3,30             | 337 | 734 |

33. ...järg  
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| Jrk. nr<br>No. | Omanik<br>Owner                 | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                    |                       |                        |                  |
|----------------|---------------------------------|-------------------|---------------|--------------------|--|-------------------|--------------------|-----------------------|------------------------|------------------|
|                |                                 |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| 36             | Millap OÜ                       | Lääne-Viru        | Kokku         | 66                 | 9217   | 4,11              | 378                | 3,46                  | 319                    | 698              |
|                |                                 |                   | EPK           | 27                 | 8994   | 4,07              | 366                | 3,45                  | 310                    | 676              |
|                |                                 |                   | EHF           | 39                 | 9371   | 4,13              | 387                | 3,47                  | 326                    | 713              |
| 37             | OÜ Uue Oidremaa                 | Pärnu             | EHF           | 60                 | 10035  | 3,71              | 373                | 3,16                  | 317                    | 690              |
| 38             | Risti Mati talu                 | Rapla             | EHF           | 25                 | 9741   | 3,73              | 364                | 3,35                  | 326                    | 690              |
| 39             | Savikuus OÜ                     | Tartu             | Kokku         | 12                 | 8897   | 4,14              | 369                | 3,58                  | 319                    | 688              |
|                |                                 |                   | EPK           | 5                  | 9140   | 4,38              | 400                | 3,69                  | 338                    | 738              |
|                |                                 |                   | EHF           | 7                  | 8700   | 3,94              | 343                | 3,49                  | 304                    | 647              |
| 40             | Osühing Pihla                   | Hiiumaa           | Kokku         | 20                 | 8723   | 4,29              | 374                | 3,57                  | 312                    | 686              |
|                |                                 |                   | EPK           | 8                  | 9796   | 4,27              | 418                | 3,49                  | 342                    | 760              |
|                |                                 |                   | EHF           | 5                  | 9338   | 4,15              | 388                | 3,60                  | 336                    | 724              |
|                |                                 |                   | EK            | 7                  | 7077   | 4,45              | 315                | 3,69                  | 261                    | 576              |
| 41             | Vastse-Kuuste Põllumajanduse OÜ | Põlva             | Kokku         | 75                 | 9441   | 3,93              | 371                | 3,31                  | 313                    | 683              |
|                |                                 |                   | EPK           | 18                 | 8711   | 4,11              | 358                | 3,47                  | 302                    | 660              |
|                |                                 |                   | EHF           | 58                 | 9666   | 3,88              | 375                | 3,27                  | 316                    | 691              |
| 42             | Raivo Kaljusaar                 | Harju             | Kokku         | 4                  | 8795   | 4,16              | 366                | 3,55                  | 312                    | 679              |
|                |                                 |                   | EPK           | 1                  | 9275   | 5,22              | 485                | 4,11                  | 381                    | 865              |
|                |                                 |                   | EHF           | 3                  | 8630   | 3,77              | 325                | 3,35                  | 289                    | 614              |
| 43             | Lau Raja talu                   | Rapla             | Kokku         | 61                 | 8643   | 4,27              | 369                | 3,55                  | 307                    | 676              |
|                |                                 |                   | EPK           | 3                  | 7850   | 4,05              | 318                | 3,42                  | 269                    | 586              |
|                |                                 |                   | EHF           | 52                 | 8817   | 4,25              | 375                | 3,54                  | 312                    | 687              |
|                |                                 |                   | EK            | 4                  | 7489   | 4,93              | 369                | 3,91                  | 293                    | 662              |
| 44             | Andres Sutt                     | Jõgeva            | Kokku         | 26                 | 8696   | 4,35              | 379                | 3,39                  | 295                    | 673              |
|                |                                 |                   | EPK           | 5                  | 9155   | 4,41              | 403                | 3,29                  | 301                    | 704              |
|                |                                 |                   | EHF           | 20                 | 8765   | 4,35              | 381                | 3,41                  | 299                    | 680              |
|                |                                 |                   | EK            | 1                  | 5112   | 3,96              | 202                | 3,44                  | 176                    | 378              |
| 45             | Osühing EPSF                    | Jõgeva            | Kokku         | 42                 | 8977   | 3,95              | 355                | 3,51                  | 315                    | 669              |
|                |                                 |                   | EPK           | 23                 | 8962   | 3,98              | 356                | 3,53                  | 317                    | 673              |
|                |                                 |                   | EHF           | 19                 | 8994   | 3,92              | 352                | 3,47                  | 312                    | 665              |
| 46             | Jäätmaa talu                    | Lääne-Viru        | EHF           | 40                 | 8464   | 4,32              | 366                | 3,52                  | 298                    | 664              |
| 47             | Regina Tiik                     | Lääne-Viru        | Kokku         | 21                 | 9083   | 3,98              | 362                | 3,31                  | 300                    | 662              |
|                |                                 |                   | EHF           | 19                 | 9189   | 3,98              | 366                | 3,29                  | 303                    | 669              |
| 48             | Heigo Heinsalu Uuetoa talu      | Rapla             | EHF           | 67                 | 8864   | 4,12              | 365                | 3,33                  | 296                    | 661              |
| 49             | Ivaski talu                     | Võru              | EHF           | 45                 | 8784   | 4,17              | 366                | 3,31                  | 291                    | 657              |
| 50             | FIE Heli Suurna                 | Rapla             | Kokku         | 16                 | 8618   | 4,23              | 365                | 3,36                  | 289                    | 654              |
|                |                                 |                   | EHF           | 15                 | 8553   | 4,25              | 363                | 3,36                  | 288                    | 651              |

33. ...järg  
...continued

| Jrk. nr<br>No.   | Omanik<br>Owner                   | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                        |                  |     |     |
|--|-----------------------------------|-------------------|---------------|--------------------|--|-------------------|------------------------|------------------|-----|-----|
|  |                                   |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |     |     |
| <b>Karja suurus üle 100 lehma</b><br>Herd size over 100 cows |                                   |                   |               |                    |  |                   |                        |                  |     |     |
| 1  | Aktsiaselts Vändra                | Pärnu             | EHF           | 1392               | 14083  | 3,80              | 535                    | 3,29             | 463 | 998 |
| 2  | Osaühing Vändra Vara              | Pärnu             | EHF           | 129                | 13984  | 3,83              | 536                    | 3,30             | 462 | 998 |
| 3  | Osaühing Kaiu LT                  | Rapla             | EHF           | 831                | 14198  | 3,65              | 519                    | 3,33             | 473 | 992 |
| 4  | Osaühing Härjanurme Mõis          | Jõgeva            | Kokku         | 1127               | 12623  | 4,13              | 522                    | 3,52             | 445 | 966 |
|  |                                   |                   | EPK           | 30                 | 11738  | 4,19              | 492                    | 3,52             | 413 | 904 |
|  |                                   |                   | EHF           | 1097               | 12648  | 4,13              | 523                    | 3,52             | 446 | 968 |
| 5  | Torma Põllumajandusosaühing       | Jõgeva            | Kokku         | 525                | 12599  | 4,25              | 535                    | 3,39             | 428 | 963 |
|  |                                   |                   | EPK           | 10                 | 10791  | 4,36              | 470                    | 3,58             | 386 | 856 |
|  |                                   |                   | EHF           | 515                | 12633  | 4,25              | 537                    | 3,39             | 428 | 965 |
| 6  | Peri Põllumajanduslik AS          | Põlva             | Kokku         | 819                | 13094  | 3,86              | 505                    | 3,32             | 435 | 940 |
|  |                                   |                   | EPK           | 159                | 11759  | 3,94              | 463                    | 3,42             | 402 | 865 |
|  |                                   |                   | EHF           | 660                | 13415  | 3,84              | 515                    | 3,30             | 443 | 958 |
| 7  | Kõljala Põllumajanduslik Osaühing | Saare             | Kokku         | 759                | 12875  | 3,74              | 482                    | 3,54             | 456 | 938 |
|  |                                   |                   | EPK           | 49                 | 12129  | 3,85              | 467                    | 3,50             | 424 | 891 |
|  |                                   |                   | EHF           | 710                | 12927  | 3,74              | 483                    | 3,55             | 458 | 941 |
| 8  | Osaühing Paistevälja              | Järva             | EHF           | 403                | 13055  | 3,67              | 480                    | 3,44             | 449 | 929 |
| 9  | Valjala Põllumajanduslik Osaühing | Saare             | Kokku         | 271                | 12251  | 3,94              | 482                    | 3,57             | 438 | 920 |
|  |                                   |                   | EPK           | 79                 | 12612  | 3,97              | 501                    | 3,56             | 448 | 949 |
|  |                                   |                   | EHF           | 192                | 12101  | 3,92              | 475                    | 3,58             | 433 | 908 |
| 10   | Osaühing Vetiku S.T.              | Lääne-Viru        | EHF           | 401                | 12180  | 4,11              | 501                    | 3,44             | 419 | 920 |
| 11   | Osaühing Kõpu PM                  | Viljandi          | Kokku         | 650                | 12074  | 4,12              | 497                    | 3,46             | 417 | 914 |
|  |                                   |                   | EPK           | 516                | 11751  | 4,17              | 491                    | 3,49             | 410 | 901 |
|  |                                   |                   | EHF           | 134                | 13323  | 3,92              | 522                    | 3,34             | 444 | 966 |
| 12   | Kabala Agro Osaühing              | Järva             | EHF           | 589                | 12422  | 3,99              | 496                    | 3,36             | 417 | 913 |
|  |                                   |                   | EPK           |                    |  |                   |                        |                  |     |     |
|  |                                   |                   | EHF           |                    |  |                   |                        |                  |     |     |
| 13   | Osaühing Põlva Agro               | Põlva             | EHF           | 1179               | 12938  | 3,77              | 487                    | 3,25             | 420 | 907 |
| 14   | Laekvere Agro OÜ                  | Lääne-Viru        | Kokku         | 151                | 12293  | 3,95              | 485                    | 3,42             | 420 | 906 |
|  |                                   |                   | EPK           | 13                 | 11012  | 4,10              | 452                    | 3,54             | 390 | 842 |
|  |                                   |                   | EHF           | 138                | 12413  | 3,94              | 489                    | 3,41             | 423 | 912 |
| 15   | Väimela Põllumajanduse Osaühing   | Valga             | EHF           | 252                | 12861  | 3,79              | 487                    | 3,22             | 415 | 902 |
| 16   | Aktsiaselts Väätsa Agro           | Järva             | EHF           | 2616               | 12341  | 3,90              | 481                    | 3,37             | 416 | 898 |
| 17   | OÜ Halinga                        | Pärnu             | Kokku         | 1628               | 12039  | 4,06              | 488                    | 3,39             | 408 | 896 |
|  |                                   |                   | EPK           | 8                  | 10716  | 4,03              | 431                    | 3,41             | 365 | 797 |
|  |                                   |                   | EHF           | 1619               | 12053  | 4,06              | 489                    | 3,39             | 408 | 897 |
| 18   | Nurmsi Agro OÜ                    | Pärnu             | Kokku         | 141                | 11886  | 4,09              | 486                    | 3,45             | 410 | 896 |
|  |                                   |                   | EHF           | 140                | 11888  | 4,09              | 486                    | 3,45             | 410 | 896 |
|  |                                   |                   | EPK           | 288                | 10928  | 4,19              | 458                    | 3,59             | 393 | 851 |
| 19   | AS Tartu Agro                     | Tartu             | Kokku         | 1264               | 11791  | 4,08              | 481                    | 3,48             | 411 | 892 |
|  |                                   |                   | EPK           | 288                | 10928  | 4,19              | 458                    | 3,59             | 393 | 851 |
|  |                                   |                   | EHF           | 975                | 12047  | 4,05              | 488                    | 3,45             | 416 | 904 |

33. ...järg  
...continued

| Jrk. nr<br>No. | Omanik<br>Owner               | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                    |                       |                        |                  |
|----------------|-------------------------------|-------------------|---------------|--------------------|--|-------------------|--------------------|-----------------------|------------------------|------------------|
|                |                               |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| 20             | Aktsiaselts Adavere Agro      | Jõgeva            | EHF           | 515                | 12042  | 3,91              | 471                | 3,48                  | 419                    | 889              |
| 21             | Osaühing Hummulu Agro         | Valga             | Kokku         | 907                | 12414  | 3,87              | 480                | 3,28                  | 407                    | 888              |
|                |                               |                   | EPK           | 1                  | 11904  | 3,82              | 455                | 3,44                  | 410                    | 865              |
|                |                               |                   | EHF           | 906                | 12415  | 3,87              | 480                | 3,28                  | 407                    | 888              |
| 22             | Osaühing Aaspere Agro         | Lääne-Viru        | EHF           | 515                | 11799  | 3,96              | 467                | 3,56                  | 420                    | 888              |
| 23             | Osaühing Metstaguse Agro      | Järva             | Kokku         | 717                | 11660  | 4,11              | 479                | 3,49                  | 407                    | 886              |
|                |                               |                   | EHF           | 689                | 11711  | 4,09              | 479                | 3,48                  | 408                    | 887              |
| 24             | OÜ Männiku Piim               | Tartu             | EHF           | 368                | 12457  | 3,72              | 463                | 3,37                  | 420                    | 883              |
| 25             | Diner Osaühing                | Lääne-Viru        | EHF           | 375                | 11783  | 4,02              | 473                | 3,48                  | 410                    | 883              |
| 26             | Vao Agro Osaühing             | Lääne-Viru        | Kokku         | 574                | 11525  | 4,13              | 476                | 3,53                  | 407                    | 883              |
|                |                               |                   | EHF           | 573                | 11527  | 4,13              | 476                | 3,53                  | 407                    | 884              |
|                |                               |                   | EK            | 1                  | 6902   | 5,17              | 357                | 4,39                  | 303                    | 660              |
| 27             | Osaühing Laekvere PM          | Lääne-Viru        | Kokku         | 251                | 11827  | 3,97              | 470                | 3,44                  | 407                    | 877              |
|                |                               |                   | EPK           | 24                 | 10505  | 4,04              | 424                | 3,58                  | 376                    | 800              |
|                |                               |                   | EHF           | 227                | 11969  | 3,97              | 475                | 3,43                  | 410                    | 885              |
| 28             | Osaühing Estonia              | Järva             | EHF           | 2187               | 12493  | 3,73              | 466                | 3,28                  | 410                    | 876              |
| 29             | Kärila Põllumajandusühistu    | Saare             | Kokku         | 447                | 12410  | 3,68              | 457                | 3,38                  | 420                    | 876              |
|                |                               |                   | EPK           | 1                  | 6332   | 3,92              | 248                | 3,69                  | 233                    | 481              |
|                |                               |                   | EHF           | 446                | 12423  | 3,68              | 457                | 3,38                  | 420                    | 877              |
| 30             | Aktsiaselts Krootuse Agro     | Põlva             | Kokku         | 515                | 12577  | 3,58              | 451                | 3,37                  | 424                    | 875              |
|                |                               |                   | EPK           | 17                 | 11761  | 3,68              | 433                | 3,36                  | 395                    | 828              |
|                |                               |                   | EHF           | 498                | 12604  | 3,58              | 451                | 3,37                  | 425                    | 876              |
| 31             | OÜ Kesa-Agro                  | Valga             | Kokku         | 421                | 12328  | 3,76              | 463                | 3,33                  | 411                    | 874              |
|                |                               |                   | EPK           | 99                 | 11709  | 3,83              | 449                | 3,38                  | 396                    | 845              |
|                |                               |                   | EHF           | 322                | 12519  | 3,74              | 468                | 3,32                  | 415                    | 883              |
| 32             | Osaühing Heseke               | Lääne-Viru        | Kokku         | 145                | 11903  | 3,91              | 465                | 3,44                  | 409                    | 874              |
|                |                               |                   | EPK           | 12                 | 11048  | 4,11              | 454                | 3,63                  | 400                    | 854              |
|                |                               |                   | EHF           | 133                | 11978  | 3,89              | 466                | 3,42                  | 410                    | 876              |
| 33             | Miiaste Põllumajanduslik AS   | Põlva             | Kokku         | 210                | 12463  | 3,66              | 456                | 3,33                  | 415                    | 872              |
|                |                               |                   | EPK           | 23                 | 11572  | 3,72              | 431                | 3,38                  | 391                    | 822              |
|                |                               |                   | EHF           | 186                | 12575  | 3,66              | 460                | 3,33                  | 418                    | 878              |
| 34             | Osaühing Kohala SF            | Lääne-Viru        | Kokku         | 392                | 12335  | 3,66              | 452                | 3,39                  | 419                    | 870              |
|                |                               |                   | EPK           | 2                  | 10340  | 3,89              | 402                | 3,54                  | 366                    | 768              |
|                |                               |                   | EHF           | 389                | 12359  | 3,66              | 452                | 3,39                  | 419                    | 871              |
| 35             | AS Peetri Põld ja Piim        | Järva             | EHF           | 919                | 11680  | 3,94              | 460                | 3,51                  | 410                    | 870              |
| 36             | Osaühing Maasikamäe Piimakari | Lääne-Viru        | EHF           | 279                | 11430  | 4,13              | 472                | 3,45                  | 395                    | 867              |
| 37             | Paunvere Agro OÜ              | Jõgeva            | Kokku         | 839                | 11550  | 3,95              | 456                | 3,53                  | 407                    | 864              |
|                |                               |                   | EPK           | 201                | 10812  | 3,97              | 429                | 3,59                  | 388                    | 818              |
|                |                               |                   | EHF           | 638                | 11783  | 3,95              | 465                | 3,51                  | 413                    | 878              |

33. ...järg  
...continued

| Jrk. nr<br>No. | Omanik<br>Owner         | Maakond<br>County | Tõug<br>Breed | Aastalehmi<br>Cows | Toodang aastalehma kohta<br>Production per cow |                   |                    |                       |                        |                  |
|----------------|-------------------------|-------------------|---------------|--------------------|--|-------------------|--------------------|-----------------------|------------------------|------------------|
|                |                         |                   |               |                    | piima<br>milk<br>kg                            | rasva<br>fat<br>% | rasva<br>fat<br>kg | valku<br>protein<br>% | valku<br>protein<br>kg | r+v<br>f+p<br>kg |
| 38             | Osaühing Eikla Agro     | Saare             | EHF           | 249                | 12015  | 3,77              | 453                | 3,41                  | 409                    | 862              |
| 39             | Osaühing Kaisma         | Pärnu             | EHF           | 485                | 12223  | 3,56              | 436                | 3,41                  | 417                    | 852              |
| 40             | OÜ Ranna Farm           | Tartu             | Kokku         | 361                | 11983  | 3,65              | 438                | 3,45                  | 414                    | 852              |
|                |                         |                   | EPK           | 4                  | 10433  | 3,92              | 409                | 3,50                  | 365                    | 774              |
|                |                         |                   | EHF           | 357                | 11999  | 3,65              | 438                | 3,45                  | 414                    | 852              |
| 41             | JK Otsa Talu Osaühing   | Lääne-Viru        | Kokku         | 437                | 11972  | 3,79              | 454                | 3,32                  | 398                    | 852              |
|                |                         |                   | EPK           | 2                  | 7077   | 3,84              | 272                | 3,67                  | 260                    | 531              |
|                |                         |                   | EHF           | 435                | 11994  | 3,79              | 455                | 3,32                  | 398                    | 853              |
| 42             | Aktiaselts Risti Agro   | Järva             | Kokku         | 508                | 11696  | 3,90              | 457                | 3,38                  | 396                    | 852              |
|                |                         |                   | EPK           | 1                  | 9228   | 3,26              | 301                | 3,40                  | 314                    | 615              |
|                |                         |                   | EHF           | 507                | 11703  | 3,91              | 457                | 3,38                  | 396                    | 853              |
| 43             | Osaühing Uuri Suurtalu  | Harju             | EHF           | 271                | 11351  | 4,04              | 458                | 3,46                  | 393                    | 851              |
| 44             | Ülejõe Piim OÜ          | Lääne-Viru        | Kokku         | 305                | 11965  | 3,67              | 440                | 3,37                  | 403                    | 843              |
|                |                         |                   | EPK           | 2                  | 9486   | 4,34              | 411                | 3,65                  | 347                    | 758              |
|                |                         |                   | EHF           | 303                | 11978  | 3,67              | 440                | 3,37                  | 403                    | 843              |
| 45             | Osaühing Kaarli Farm    | Lääne-Viru        | EHF           | 480                | 11257  | 4,04              | 455                | 3,44                  | 388                    | 842              |
| 46             | OÜ Sarapiku Farm        | Rapla             | EHF           | 144                | 11794  | 3,84              | 452                | 3,20                  | 378                    | 830              |
| 47             | Nopri talu              | Võru              | Kokku         | 201                | 10672  | 4,28              | 457                | 3,49                  | 373                    | 829              |
|                |                         |                   | EPK           | 70                 | 10311  | 4,32              | 446                | 3,55                  | 366                    | 812              |
|                |                         |                   | EHF           | 131                | 10864  | 4,26              | 462                | 3,46                  | 376                    | 839              |
| 48             | Mäo Põllumajandusühistu | Järva             | Kokku         | 410                | 10411  | 4,50              | 468                | 3,46                  | 361                    | 829              |
|                |                         |                   | EPK           | 16                 | 9594   | 4,51              | 433                | 3,48                  | 333                    | 766              |
|                |                         |                   | EHF           | 394                | 10445  | 4,50              | 470                | 3,46                  | 362                    | 832              |
| 49             | AT & MK OÜ              | Põlva             | Kokku         | 193                | 11180  | 4,01              | 448                | 3,38                  | 378                    | 826              |
|                |                         |                   | EPK           | 28                 | 9785   | 4,22              | 413                | 3,54                  | 346                    | 759              |
|                |                         |                   | EHF           | 165                | 11419  | 3,98              | 454                | 3,36                  | 384                    | 838              |
| 50             | Osaühing Trovador       | Lääne-Viru        | Kokku         | 674                | 10964  | 4,05              | 444                | 3,44                  | 377                    | 822              |
|                |                         |                   | EPK           | 5                  | 10727  | 4,09              | 438                | 3,38                  | 363                    | 802              |
|                |                         |                   | EHF           | 668                | 10966  | 4,05              | 444                | 3,44                  | 377                    | 822              |

## Piimaveiste geneetiline hindamine

Eesti Põllumajandusloomade Jõudluskontrolli AS (EPJ) teostab lüpsikarja jõudluse, välimiku, udara tervise, sigivuse, poegimise ja tootliku aja tunnuste geneetilise hindamise kolm korda aastas, kasutades jõudluse ja udara tervise tunnuste hindamisel nn juhuslike regressioonikordajatega BLUP kontrollpäeva loomamudelit (KPM), välimiku, sigivuse ja poegimise tunnuste hindamisel BLUP loomamudelit (LM) ning tootliku aja hindamisel programmi "Survival Kit". 1998. a veebruarist alates osaleb EPJ rahvusvahelises pullide hindamises (Interbull) eesti holsteini tõu baasil hinnatud pullide jõudlustunnuste ja 2001. a maist ka udara tervise tunnuste hindamisandmetega ning alates 2004. a maist Interbulli punaste tõugude grupis eesti punase tõu baasil hinnatud pullide hindamisandmetega. 2006. a kevadest alates osaleb EPJ välimikutunnuste rahvusvahelises hindamises holsteini tõugude grupis.

2023. aastal avaldatakse geneetilise hindamise tulemused koos Interbulli rahvusvahelise hindamise tulemustega 4. aprillil, 8. augustil ja 5. detsembril. Pulli hindamistulemused avalikustatakse, kui hindamises on pullil vähemalt 20 tüdarta vähemalt kolmes karjas ja hindamistulemuste usaldusväärsus on vähemalt 70%. Pulli jõudlustunnuste ja välimikutunnuste Interbulli hindamise tulemused importpullidele on ametlikud rahvusliku hindamise tulemuste puudumisel või tingimusel, et hindamistulemuste usaldusväärsus on väiksem kui 70%. Udara tervise tunnuste Interbulli hindamise tulemused on ametlikud siis, kui jõudlustunnuste Interbulli hindamise tulemused on ametlikud.

## BLUP-kontrollpäeva loomamudeli kasutamise tingimused veiste jõudlustunnuste aretusväärtuste hindamisel

### 2022. a 3. hindamine

|  |  |                      |            |
|--|--|----------------------|------------|
| <b>Tõud</b>                                    | eesti holstein (EHF), eesti punane (EPK)   |                      |            |
| <b>Hinnatavad tunnused</b>                     | piim (kg), rasv (kg), valk (kg)<br>Rasva- ja valgusisalduse aretusväärtused arvutatakse järgmiselt:<br>EHF $AV_{rasva}\% = (AV_{rasv} * 100 - AV_{piim} * 3.82) / (AV_{piim} + 10401)$<br>$AV_{valgu}\% = (AV_{valk} * 100 - AV_{piim} * 3.34) / (AV_{piim} + 10401)$<br>EPK $AV_{rasva}\% = (AV_{rasv} * 100 - AV_{piim} * 4.01) / (AV_{piim} + 9001)$<br>$AV_{valgu}\% = (AV_{valk} * 100 - AV_{piim} * 3.44) / (AV_{piim} + 9001)$<br>Valemities olevad konstandid väljendavad hinnatavate baasaasta lehmade 2. laktatsiooni toodangu keskmisi näitajaid. |                      |            |
| <b>Geneetilised parameetrid: h<sup>2</sup></b> | tunnus   | 1. lakt.             | 2. lakt.   |
|  | piim (kg)  | 0.53                 | 0.35       |
|  | rasv (kg)  | 0.52                 | 0.36       |
|  | valk (kg)  | 0.51                 | 0.38       |
| <b>Andmed</b>                                  | 1., 2. ja 3. laktatsiooni kuni 15 esimese kontroll-lüpsi andmed  |                      |            |
| <b>Andmete sobivuse tingimused</b>             | poegimise vanus:   | 1. laktatsioonil     | 20–42 kuud |
|  |  | 2. laktatsioonil     | 30–56 kuud |
|  |  | 3. laktatsioonil     | 44–75 kuud |
|  | kontroll-lüpsi aeg:  | 5 < lüpsipäevi ≤ 305 |            |
|  | 1. kontroll-lüpsi aeg:   | 5 < lüpsipäevi < 100 |            |
| <b>Lehmad</b>                                  | kõik lehmad, kelle 1. poegimise aeg ≥ 1. oktoober 1994. a ja kellel on vähemalt 1. laktatsiooni kahe esimese kontroll-lüpsi andmed ning isa ja ema andmed teada.   |                      |            |
| <b>Pullid</b>                                  | kõik pullid, kelle tütreid on hindamises.  |                      |            |
| <b>Mudel</b>                                   | $y = KKLP + f(LP) + f(pe) + f(a) + e$<br>y – lehma kontrollpäeva toodang;<br>KKLP – karja kontrollpäev * lüpsisageduse fikseeritud efekt vastavalt esimesele ning ühiselt teisele ja kolmandale laktatsioonile;<br>f(LP) – lüpsipäevade arvu fikseeritud efekt konkreetse poegimisvanuse * poegimisesoon * poegimisvahemik * poegimisaasta * tõug * laktatsioon grupis;<br>f(a) ja f(pe) – juhuslike regressioonikordajatega lüpsipäeva funktsioonid lehma aditiivgeneetilise ning püsiva keskkonnaefekti kirjeldamiseks;<br>e – mitteseletatav jääkefekt    |                      |            |
| <b>Hindamise meetod</b>                        | Ühe tunnuse mitme laktatsiooni (andmetega) juhuslike regressioonikordajatega BLUP kontrollpäeva loomamudel järgmiste tunnustega:<br>1. laktatsiooni toodang;<br>2. laktatsiooni toodang;<br>3. laktatsiooni toodang.   |                      |            |
| <b>Geneetiline alus</b>                        | Lehmade ja pullide aretusväärtused korrigeeritakse geneetilise baasi moodustavate aastatel 2014 kuni 2018 sündinud lehmade aretusväärtuse keskmise võrra, mille tulemusel geneetilise baasi lehmade keskmine aretusväärtus = 0.  |                      |            |
| <b>Aretusväärtuste esitamine</b>               | Iga tunnuse aretusväärtus on 1., 2. ja 3. laktatsiooni aretusväärtuste keskmine.<br>Suhteline piimajõudluse aretusväärtus SPAV väljendatakse punktides, kehtestades keskmiseks 100 punkti ja standardhälbeks 12 punkti ning arvutatakse:<br><b>EHF SPAV = 100 + 0.154 * AV<sub>rasv</sub> + 0.616 * AV<sub>valk</sub></b><br><b>EPK SPAV = 100 + 0.117 * AV<sub>rasv</sub> + 0.701 * AV<sub>valk</sub></b>   |                      |            |
| <b>Avaldamine</b>                              | Avaldatakse pullid, kellel ≥ 20 tüdarta ≥ 3 karjas ja kelle hindamistulemuste usaldusväärsus on vähemalt 70%.  |                      |            |

## Genetic Evaluation for Dairy Cattle in Estonia

Breeding values for production, conformation, udder health, fertility, calving and longevity traits for bulls and cows in Estonia are estimated by Eesti Põllumajandusloomade Jõudluskontrolli AS three times per year. Breeding value estimation takes place for Estonian Holstein Cattle and Estonian Red Cattle jointly using for production and udder health traits the BLUP random regression test day animal model (RR2DM). Breeding values for fertility, calving and conformation traits are estimated using the BLUP animal model (AM). Breeding values for longevity traits are estimated using program package "Survival Kit".

Our data for Estonian Holstein Cattle have been included in Interbull (International Bull Evaluation Service) evaluation for production traits since February 1998, for udder health traits since May 2001 and for conformation traits since May 2006. Evaluation data for Estonian Red Cattle have been included to the Interbull Red Dairy Cattle evaluation for production and udder health traits since May 2004.

In 2023 the publication dates of national results together with Interbull results co-ordinated with Interbull Centre are April 4, August 8 and December 5. National proofs of bull with min. reliability 70% will be published, when bull has at least 20 daughters in at least three herds in the evaluation. Interbull proofs for production and conformation traits for foreign bulls are official unless national proofs with min. reliability 70% are available. Interbull proofs for udder health traits are official together with Interbull proofs for production traits.

## Genetic Evaluation for Yield Traits Facts on Estimation of Breeding Values December 2022

|  |  |                                |                 |                 |                 |
|--|--|--------------------------------|-----------------|-----------------|-----------------|
| <b>Breed</b>   | Estonian Holstein (EHF), Estonian Red (ER)   |                                |                 |                 |                 |
| <b>Traits evaluated</b>                                    | Milk, fat and protein yield (kg);<br>fat and protein concentration (%) proofs are calculated from respective yield trait proofs<br>EHF: $BV_{fat\_content} = (BV_{fat} * 100 - BV_{milk} * 3.82) / (BV_{milk} + 10401)$<br>$BV_{protein\_content} = (BV_{protein} * 100 - BV_{milk} * 3.34) / (BV_{milk} + 10401)$<br>ER: $BV_{fat\_content} = (BV_{fat} * 100 - BV_{milk} * 4.01) / (BV_{milk} + 9001)$<br>$BV_{protein\_content} = (BV_{protein} * 100 - BV_{milk} * 3.44) / (BV_{milk} + 9001)$ |                                |                 |                 |                 |
| <b>Number of lactations included in the evaluation</b>     | Up to 15 test day records of 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> lactation   |                                |                 |                 |                 |
| <b>Genetic parameters applied</b>                          | Heritabilities:  | Lactation:                     | 1 <sup>st</sup> | 2 <sup>nd</sup> | 3 <sup>rd</sup> |
|  |  | milk yield                     | 0.53            | 0.35            | 0.34            |
|  |  | fat yield                      | 0.52            | 0.36            | 0.36            |
|  |  | protein yield                  | 0.51            | 0.38            | 0.38            |
| <b>Inclusion and extension of records</b>                  | Age at calving:  | 1 <sup>st</sup> lactation:     | 20–42 months    |                 |                 |
|  |  | 2 <sup>nd</sup> lactation:     | 30–56 months    |                 |                 |
|  |  | 3 <sup>rd</sup> lactation:     | 44–75 months    |                 |                 |
|  | Test day date:   | between 5 and 305 days in milk |                 |                 |                 |
|  | 1 <sup>st</sup> test day date:   | between 5 and 100 days in milk |                 |                 |                 |
| <b>Cows</b>  | All cows with 1 <sup>st</sup> calving ≥ 01-oct-1994 and at least first two test day records and identified sire and dam  |                                |                 |                 |                 |
| <b>Sire categories</b>                                     | All identified sires   |                                |                 |                 |                 |
| <b>Method of evaluation</b>                                | Single Trait Multi-Lactation Random Regression Test Day BLUP Animal Model  |                                |                 |                 |                 |
| <b>Environmental effects</b>                               | Fixed: Herd test day – milking frequency effects for 1 <sup>st</sup> lactation and combined 2 <sup>nd</sup> and 3 <sup>rd</sup> lactation, fixed lactation curves defined by lactation * calving age * calving season * calving interval * calving year * breed<br>Random: Permanent environmental effects within each lactation   |                                |                 |                 |                 |
| <b>Use of genetic groups</b>                               | Fixed genetic groups for unknown parents are defined separately for Estonian versus foreign ancestry according to sex and year of birth  |                                |                 |                 |                 |
| <b>Expression of genetic evaluations</b>                   | Estimated breeding values (EBV) for milk, fat and protein (kg), fat and protein merit (%) as average EBV from lactation 1 to 3<br>Relative breeding values (RBV) for production index SPAV with mean of 100 and SD of 12 points, combining breeding values of milk, fat and protein quantity by relative economic weights of 0:1:4 for EHF and combining breeding values of milk, fat and protein quantity by relative economic weights of 0:1:6 for ER  |                                |                 |                 |                 |
| <b>Genetic base</b>  | EEBV: All cows born in years 2014–2018<br>RBV: All cows by breeds born in years 2014–2018  |                                |                 |                 |                 |
| <b>Minimum requirements for publication of sire proofs</b> | 20 daughters in 3 herds with min. reliability 70%  |                                |                 |                 |                 |

### 34. Pullide aretusväärtuste keskmised sünniaastate järgi

Estimated breeding values (EBV) of sires by year of birth

| Sünniaasta<br>Year of birth | Eesti punane <i>Estonian Red</i> |                               |                    |                   |                        |                       |                     |                     | Eesti holstein <i>Estonian Holstein</i> |                             |                               |                   |                        |                       |     |     |                     |                    |
|-----------------------------|----------------------------------|-------------------------------|--------------------|-------------------|------------------------|-----------------------|---------------------|---------------------|---|-----------------------------|-------------------------------|-------------------|------------------------|-----------------------|-----|-----|---------------------|--------------------|
|                             | pullide arv<br>no. of sires      | keskmise aretusväärtus<br>EBV |                    |                   |                        |                       |                     | SPAV<br>RBV<br>milk | SSAV<br>RBV<br>SCC                      | pullide arv<br>no. of sires | keskmise aretusväärtus<br>EBV |                   |                        |                       |     |     | SPAV<br>RBV<br>milk | SSAV<br>RBV<br>SCC |
|                             |                                  | piima<br>milk<br>kg           | rasva<br>fat<br>kg | rasva<br>fat<br>% | valgu<br>protein<br>kg | valgu<br>protein<br>% | piima<br>milk<br>kg |                     |   |                             | rasva<br>fat<br>kg            | rasva<br>fat<br>% | valgu<br>protein<br>kg | valgu<br>protein<br>% |     |     |                     |                    |
| 2000                        | 17                               | -621                          | -14                | +0,13             | -20                    | +0,02                 | 84                  | 106                 | 82                                      | -219                        | -18                           | -0,09             | -13                    | -0,05                 | 89  | 88  |                     |                    |
| 2001                        | 20                               | -420                          | -24                | -0,08             | -17                    | -0,03                 | 85                  | 95                  | 67                                      | -176                        | -9                            | -0,01             | -10                    | -0,03                 | 93  | 88  |                     |                    |
| 2002                        | 19                               | -365                          | -14                | +0,02             | -12                    | +0,02                 | 90                  | 92                  | 68                                      | -344                        | -10                           | +0,04             | -14                    | -0,02                 | 90  | 86  |                     |                    |
| 2003                        | 15                               | -363                          | -14                | +0,01             | -11                    | +0,02                 | 90                  | 93                  | 87                                      | -288                        | -8                            | +0,03             | -12                    | -0,02                 | 91  | 90  |                     |                    |
| 2004                        | 16                               | -221                          | -6                 | +0,04             | -6                     | +0,03                 | 96                  | 96                  | 86                                      | -388                        | -9                            | +0,06             | -10                    | +0,03                 | 92  | 90  |                     |                    |
| 2005                        | 12                               | -399                          | -18                | -0,02             | -16                    | -0,02                 | 87                  | 98                  | 65                                      | -199                        | -4                            | +0,03             | -6                     | +0,01                 | 95  | 93  |                     |                    |
| 2006                        | 13                               | -75                           | +3                 | +0,06             | -1                     | +0,02                 | 100                 | 96                  | 62                                      | -7                          | -5                            | -0,04             | -2                     | -0,02                 | 98  | 94  |                     |                    |
| 2007                        | 23                               | +212                          | -1                 | -0,09             | +2                     | -0,06                 | 101                 | 99                  | 44                                      | +14                         | -4                            | -0,03             | -1                     | +0,00                 | 99  | 97  |                     |                    |
| 2008                        | 8                                | -279                          | +1                 | +0,13             | -7                     | +0,03                 | 95                  | 108                 | 52                                      | -69                         | -3                            | +0,00             | -5                     | -0,02                 | 96  | 93  |                     |                    |
| 2009                        | 13                               | -168                          | -2                 | +0,06             | -8                     | -0,02                 | 94                  | 91                  | 80                                      | -33                         | -4                            | -0,02             | -3                     | -0,02                 | 97  | 95  |                     |                    |
| 2010                        | 15                               | -234                          | +0                 | +0,10             | -2                     | +0,07                 | 98                  | 98                  | 81                                      | -82                         | +1                            | +0,05             | +1                     | +0,04                 | 101 | 98  |                     |                    |
| 2011                        | 16                               | -2                            | -2                 | -0,02             | -1                     | +0,00                 | 99                  | 96                  | 88                                      | +130                        | +4                            | +0,00             | +4                     | +0,00                 | 103 | 101 |                     |                    |
| 2012                        | 23                               | -127                          | +4                 | +0,10             | +3                     | +0,08                 | 103                 | 93                  | 68                                      | +405                        | +14                           | -0,01             | +14                    | +0,01                 | 111 | 106 |                     |                    |
| 2013                        | 11                               | -259                          | -6                 | +0,05             | +0                     | +0,10                 | 99                  | 97                  | 94                                      | +397                        | +14                           | +0,00             | +14                    | +0,01                 | 110 | 106 |                     |                    |
| 2014                        | 17                               | +26                           | +1                 | +0,00             | +5                     | +0,04                 | 103                 | 105                 | 74                                      | +457                        | +15                           | -0,02             | +17                    | +0,02                 | 113 | 108 |                     |                    |
| 2015                        | 10                               | -367                          | -1                 | +0,16             | +1                     | +0,16                 | 101                 | 106                 | 88                                      | +677                        | +27                           | +0,02             | +29                    | +0,06                 | 122 | 114 |                     |                    |
| 2016                        | 9                                | +111                          | +20                | +0,17             | +21                    | +0,18                 | 117                 | 108                 | 56                                      | +556                        | +31                           | +0,10             | +25                    | +0,06                 | 120 | 116 |                     |                    |
| 2017                        | 5                                | -163                          | +17                | +0,26             | +13                    | +0,19                 | 111                 | 99                  | 43                                      | +405                        | +32                           | +0,15             | +25                    | +0,10                 | 120 | 117 |                     |                    |

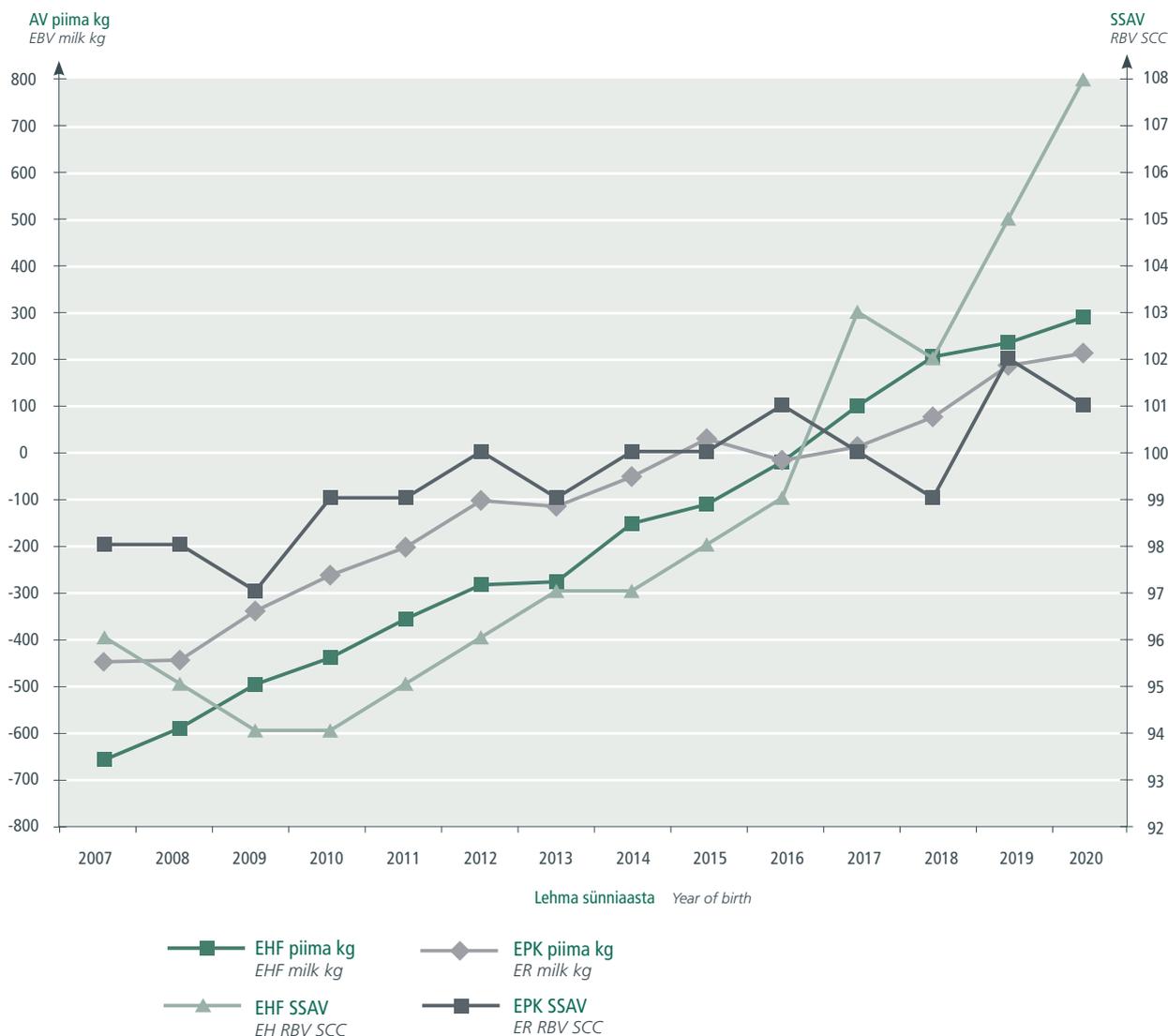
### 35. Lehmade aretusväärtuste keskmised sünniaastate järgi

Estimated breeding values (EBV) of cows by year of birth

| Sünniaasta<br>Year of birth | Eesti punane <i>Estonian Red</i> |                               |                    |                   |                        |                       |                     |                     | Eesti holstein <i>Estonian Holstein</i> |                            |                               |                   |                        |                       |     |     |                     |                    |
|-----------------------------|----------------------------------|-------------------------------|--------------------|-------------------|------------------------|-----------------------|---------------------|---------------------|---|----------------------------|-------------------------------|-------------------|------------------------|-----------------------|-----|-----|---------------------|--------------------|
|                             | lehmade arv<br>no. of cows       | keskmise aretusväärtus<br>EBV |                    |                   |                        |                       |                     | SPAV<br>RBV<br>milk | SSAV<br>RBV<br>SCC                      | lehmade arv<br>no. of cows | keskmise aretusväärtus<br>EBV |                   |                        |                       |     |     | SPAV<br>RBV<br>milk | SSAV<br>RBV<br>SCC |
|                             |                                  | piima<br>milk<br>kg           | rasva<br>fat<br>kg | rasva<br>fat<br>% | valgu<br>protein<br>kg | valgu<br>protein<br>% | piima<br>milk<br>kg |                     |   |                            | rasva<br>fat<br>kg            | rasva<br>fat<br>% | valgu<br>protein<br>kg | valgu<br>protein<br>% |     |     |                     |                    |
| 2007                        | 5024                             | -453                          | -15                | +0,04             | -18                    | -0,02                 | 86                  | 98                  | 20230                                   | -663                       | -23                           | +0,02             | -22                    | +0,01                 | 83  | 96  |                     |                    |
| 2008                        | 5032                             | -449                          | -15                | +0,03             | -18                    | -0,03                 | 86                  | 98                  | 20981                                   | -595                       | -20                           | +0,02             | -19                    | +0,01                 | 85  | 95  |                     |                    |
| 2009                        | 4862                             | -343                          | -12                | +0,02             | -15                    | -0,03                 | 88                  | 97                  | 20742                                   | -501                       | -15                           | +0,04             | -17                    | +0,00                 | 87  | 94  |                     |                    |
| 2010                        | 4844                             | -266                          | -9                 | +0,02             | -11                    | -0,02                 | 91                  | 99                  | 22050                                   | -444                       | -15                           | +0,02             | -15                    | +0,00                 | 88  | 94  |                     |                    |
| 2011                        | 4858                             | -206                          | -7                 | +0,01             | -9                     | -0,02                 | 93                  | 99                  | 21872                                   | -360                       | -11                           | +0,03             | -12                    | +0,00                 | 91  | 95  |                     |                    |
| 2012                        | 4880                             | -106                          | -4                 | +0,01             | -6                     | -0,02                 | 96                  | 100                 | 22047                                   | -287                       | -10                           | +0,01             | -10                    | +0,00                 | 92  | 96  |                     |                    |
| 2013                        | 4465                             | -118                          | -3                 | +0,02             | -4                     | +0,00                 | 97                  | 99                  | 21059                                   | -280                       | -8                            | +0,02             | -9                     | +0,01                 | 93  | 97  |                     |                    |
| 2014                        | 3778                             | -54                           | -2                 | +0,01             | -2                     | +0,00                 | 98                  | 100                 | 21601                                   | -155                       | -5                            | +0,01             | -6                     | +0,00                 | 96  | 97  |                     |                    |
| 2015                        | 3731                             | +27                           | +0                 | -0,01             | +0                     | -0,01                 | 100                 | 100                 | 22147                                   | -114                       | -5                            | +0,00             | -5                     | +0,00                 | 97  | 98  |                     |                    |
| 2016                        | 3392                             | -19                           | +0                 | +0,01             | -1                     | +0,00                 | 100                 | 101                 | 21860                                   | -22                        | -2                            | -0,01             | -1                     | +0,00                 | 99  | 99  |                     |                    |
| 2017                        | 3035                             | +10                           | +0                 | +0,01             | +1                     | +0,01                 | 101                 | 100                 | 22820                                   | +98                        | +5                            | +0,01             | +4                     | +0,01                 | 103 | 103 |                     |                    |
| 2018                        | 2748                             | +74                           | +3                 | +0,00             | +3                     | +0,01                 | 103                 | 99                  | 23075                                   | +204                       | +7                            | +0,00             | +7                     | +0,01                 | 106 | 102 |                     |                    |
| 2019                        | 2136                             | +185                          | +8                 | +0,01             | +9                     | +0,03                 | 107                 | 102                 | 22262                                   | +234                       | +11                           | +0,02             | +10                    | +0,02                 | 108 | 105 |                     |                    |
| 2020                        | 1134                             | +211                          | +11                | +0,03             | +11                    | +0,04                 | 109                 | 101                 | 13839                                   | +289                       | +17                           | +0,06             | +14                    | +0,04                 | 111 | 108 |                     |                    |

### 36. Lehmade piimatoodangu ja udara tervise keskmine aretusväärtus tõugude järgi

Genetic trend in milk yield and udder health traits of cows by breed



### 37. Karjasolevate lehmade keskmised aretusväärtused laktatsioonide kaupa

Average EBVs of milking cows within lactation in Estonia

| Laktatsioon<br>Lactation | lehmade arv<br>no. of cows | Eesti punane <i>Estonian Red</i> |              |                  |                  |                 |               |              | Eesti holstein <i>Estonian Holstein</i> |                  |                               |       |    |       |     |     |
|--------------------------|----------------------------|----------------------------------|--------------|------------------|------------------|-----------------|---------------|--------------|---|------------------|-------------------------------|-------|----|-------|-----|-----|
|                          |                            | keskmise aretusväärtus<br>EBV    |              |                  |                  |                 |               |              |   |                  | keskmise aretusväärtus<br>EBV |       |    |       |     |     |
|                          |                            | piima<br>milk                    | rasva<br>fat | valgu<br>protein | SPAV<br>RBV milk | SSAV<br>RBV SCC | piima<br>milk | rasva<br>fat | valgu<br>protein                        | SPAV<br>RBV milk | SSAV<br>RBV SCC               |       |    |       |     |     |
|                          | kg                         | kg                               | %            | kg               | %                | kg              | kg            | %            | kg                                      | %                | kg                            | kg    | %  | kg    | %   |     |
| 1                        | 2148                       | -176                             | -3           | +0,05            | -3               | +0,04           | 98            | 100          | 15335                                   | +154             | +12                           | +0,06 | +9 | +0,04 | 107 | 106 |
| 2                        | 2879                       | -85                              | -2           | +0,03            | -1               | +0,02           | 99            | 101          | 20968                                   | +164             | +9                            | +0,03 | +8 | +0,02 | 106 | 105 |
| ≥3                       | 5996                       | -228                             | -7           | +0,03            | -7               | +0,01           | 94            | 101          | 29852                                   | +10              | +1                            | +0,01 | +1 | +0,01 | 101 | 104 |
| Kokku<br>Total           | 11023                      | -181                             | -5           | +0,03            | -5               | +0,02           | 96            | 101          | 66155                                   | +92              | +6                            | +0,03 | +5 | +0,02 | 104 | 105 |

# Lihaveiste jõudluskontrolli näitajad

## Results of beef performance recording

### 38. Loomade arv lihaveiste jõudluskontrollis 31.12.2022

No. of animals in beef performance recording

| Tõug<br><i>Breed</i>      | Puhtatõulised <i>Purebred</i>        |                                 |                             | Ristandid <i>Crossbred</i>           |                                 |                             | Kokku <i>Total</i>                   |                                 |                             |
|---------------------------|--------------------------------------|---------------------------------|-----------------------------|--------------------------------------|---------------------------------|-----------------------------|--------------------------------------|---------------------------------|-----------------------------|
|                           | veiseid kokku<br><i>cattle total</i> | ammlehmi<br><i>suckler cows</i> | lehmikuid<br><i>heifers</i> | veiseid kokku<br><i>cattle total</i> | ammlehmi<br><i>suckler cows</i> | lehmikuid<br><i>heifers</i> | veiseid kokku<br><i>cattle total</i> | ammlehmi<br><i>suckler cows</i> | lehmikuid<br><i>heifers</i> |
| Aberdiin-angus <i>Ab</i>  | 4874                                 | 1965                            | 1851                        | 4188                                 | 1780                            | 1564                        | 9062                                 | 3745                            | 3415                        |
| Akviteeni hele <i>Ba</i>  | 267                                  | 95                              | 110                         | 990                                  | 456                             | 369                         | 1257                                 | 551                             | 479                         |
| Aubrak <i>Au</i>          | 176                                  | 91                              | 62                          | 3                                    |                                 | 2                           | 179                                  | 91                              | 64                          |
| Belgia sinine <i>Bb</i>   | 1                                    |                                 |                             | 101                                  | 33                              | 38                          | 102                                  | 33                              | 38                          |
| Dexter <i>De</i>          |                                      |                                 |                             | 1                                    |                                 | 1                           | 1                                    |                                 | 1                           |
| Gallovei <i>Ga</i>        | 401                                  | 166                             | 130                         | 181                                  | 90                              | 41                          | 582                                  | 256                             | 171                         |
| Hereford <i>Hf</i>        | 2312                                 | 997                             | 811                         | 3282                                 | 1483                            | 1146                        | 5594                                 | 2480                            | 1957                        |
| Limusiin <i>Li</i>        | 3181                                 | 1174                            | 1233                        | 4658                                 | 1798                            | 1937                        | 7839                                 | 2972                            | 3170                        |
| Piemont <i>Pi</i>         |                                      |                                 |                             | 6                                    | 5                               | 1                           | 6                                    | 5                               | 1                           |
| Saler <i>Sa</i>           | 14                                   | 4                               | 3                           | 112                                  | 19                              | 50                          | 126                                  | 23                              | 53                          |
| Simmental <i>Si</i>       | 1694                                 | 830                             | 606                         | 2647                                 | 1289                            | 914                         | 4341                                 | 2119                            | 1520                        |
| Šarolee <i>Ch</i>         | 2072                                 | 1025                            | 735                         | 2252                                 | 911                             | 861                         | 4324                                 | 1936                            | 1596                        |
| Šoti mägiveis <i>Hc</i>   | 1411                                 | 587                             | 381                         | 310                                  | 84                              | 122                         | 1721                                 | 671                             | 503                         |
| Tirooli hall <i>Gr</i>    | 247                                  | 230                             | 12                          | 193                                  | 8                               | 93                          | 440                                  | 238                             | 105                         |
| Wagyu <i>Wa</i>           |                                      |                                 |                             | 72                                   |                                 | 33                          | 72                                   |                                 | 33                          |
| <b>Kokku <i>Total</i></b> | <b>16650</b>                         | <b>7164</b>                     | <b>5934</b>                 | <b>18996</b>                         | <b>7956</b>                     | <b>7172</b>                 | <b>35646</b>                         | <b>15120</b>                    | <b>13106</b>                |

### 39. Lihaveiste arv tõugude viisi maakondades 31.12.2022

No. of beef cattle of different breeds by counties

| Maakond<br><i>County</i>  | Karjade arv<br><i>No. of herds</i> | Lihaveiste arv <i>No. of beef cattle</i> |                          |                  |                         |                  |                    |                    |                    |                   |                 |                     |                   |                         |                        |                 | Kokku<br><i>Total</i> |
|---------------------------|------------------------------------|--|--------------------------|------------------|-------------------------|------------------|--------------------|--------------------|--------------------|-------------------|-----------------|---------------------|-------------------|-------------------------|------------------------|-----------------|-----------------------|
|                           |                                    | Aberdiin-angus <i>Ab</i>                 | Akviteeni hele <i>Ba</i> | Aubrak <i>Au</i> | Belgia sinine <i>Bb</i> | Dexter <i>De</i> | Gallovei <i>Ga</i> | Hereford <i>Hf</i> | Limusiin <i>Li</i> | Piemont <i>Pi</i> | Saler <i>Sa</i> | Simmental <i>Si</i> | Šarolee <i>Ch</i> | Šoti mägiveis <i>Hc</i> | Tirooli hall <i>Gr</i> | Wagyu <i>Wa</i> |                       |
| Harju                     | 38                                 | 1611                                     | 1                        |                  |                         |                  | 66                 | 456                | 139                |                   |                 | 67                  | 594               | 79                      |                        | 4               | 3017                  |
| Hiiu                      | 19                                 | 568                                      | 7                        |                  | 2                       |                  | 35                 | 228                | 55                 |                   |                 | 114                 | 398               | 114                     |                        | 47              | 1568                  |
| Ida-Viru                  | 11                                 | 207                                      | 155                      |                  |                         |                  |                    | 47                 | 729                |                   |                 | 109                 |                   | 37                      |                        |                 | 1284                  |
| Jõgeva                    | 16                                 | 403                                      | 12                       |                  | 3                       |                  | 119                | 95                 | 137                |                   |                 | 123                 | 81                | 1                       |                        | 19              | 993                   |
| Järva                     | 18                                 | 646                                      | 7                        | 2                | 7                       | 1                | 2                  | 117                | 207                | 3                 | 57              | 291                 | 83                | 124                     | 2                      | 1               | 1550                  |
| Lääne                     | 24                                 | 678                                      | 82                       |                  |                         |                  |                    | 402                | 333                |                   |                 | 491                 | 513               | 166                     |                        |                 | 2665                  |
| Lääne-Viru                | 53                                 | 715                                      | 254                      |                  | 66                      |                  | 1                  | 311                | 1331               |                   |                 | 1208                | 280               | 44                      | 3                      |                 | 4213                  |
| Põlva                     | 6                                  | 3  | 71                       |                  | 1                       |                  |                    | 81                 | 1101               |                   |                 | 23                  | 45                | 25                      |                        |                 | 1350                  |
| Pärnu                     | 63                                 | 1696                                     | 106                      |                  | 4                       |                  | 4                  | 668                | 1724               | 1                 |                 | 615                 | 262               | 179                     | 8                      | 1               | 5268                  |
| Rapla                     | 24                                 | 416                                      | 223                      | 7                | 2                       |                  |                    | 11                 | 914                |                   |                 | 76                  | 473               | 66                      |                        |                 | 2188                  |
| Saare                     | 72                                 | 856                                      |                          | 89               |                         |                  | 314                | 1422               | 386                | 1                 |                 | 435                 | 474               | 557                     | 411                    |                 | 4945                  |
| Tartu                     | 18                                 | 425                                      |                          | 26               |                         |                  |                    | 193                | 215                |                   |                 | 62                  | 24                | 245                     |                        |                 | 1190                  |
| Valga                     | 31                                 | 314                                      | 119                      | 55               | 1                       |                  |                    | 1145               | 481                |                   | 1               | 359                 | 295               |                         |                        |                 | 2770                  |
| Viljandi                  | 17                                 | 242                                      | 105                      |                  |                         |                  | 41                 | 317                |                    |                   | 68              |                     | 311               | 49                      |                        |                 | 1133                  |
| Võru                      | 27                                 | 282                                      | 115                      |                  | 16                      |                  |                    | 101                | 87                 | 1                 |                 | 368                 | 491               | 35                      | 16                     |                 | 1512                  |
| <b>Kokku <i>Total</i></b> | <b>437</b>                         | <b>9062</b>                              | <b>1257</b>              | <b>179</b>       | <b>102</b>              | <b>1</b>         | <b>582</b>         | <b>5594</b>        | <b>7839</b>        | <b>6</b>          | <b>126</b>      | <b>4341</b>         | <b>4324</b>       | <b>1721</b>             | <b>440</b>             | <b>72</b>       | <b>35646</b>          |

## 40. Lihaveiste jõudluskontrolli näitajad

Results of beef performance recording

|                                |                                | Sünnimass <i>Birth weight</i> |  |                              |  | 200 päeva mass <i>200-day weight</i> |  |   |                  |  |   | 365 päeva mass <i>365-day weight</i> |  |   |                  |  |   |
|--------------------------------|--------------------------------|-------------------------------|--|------------------------------|--|--------------------------------------|--|---|------------------|--|---|--------------------------------------|--|---|------------------|--|---|
|                                |                                | puhtatõulised <i>purebred</i> |  | ristandid <i>cross-breed</i> |  | puhtatõulised <i>purebred</i>        |  | ristandid <i>cross-breed</i>  |                  | puhtatõulised <i>purebred</i>                  |   | ristandid <i>cross-breed</i>         |  | puhtatõulised <i>purebred</i>   |                  | ristandid <i>cross-breed</i>                   |   |
| Tõug<br><i>Breed</i>           |                                | av<br><i>no.</i>              | keskmine mass, kg<br><i>average weight, kg</i> | av<br><i>no.</i>             | keskmine mass, kg<br><i>average weight, kg</i> | av<br><i>no.</i>                     | keskmine mass, kg<br><i>average weight, kg</i> | ööp. juurdekasv süünd–200 p. g<br><i>average daily gain birth–200 days, g</i> | av<br><i>no.</i> | keskmine mass, kg<br><i>average weight, kg</i> | ööp. juurdekasv süünd–200 p. g<br><i>average daily gain birth–200 days, g</i> | av<br><i>no.</i>                     | keskmine mass, kg<br><i>average weight, kg</i> | ööp. juurdekasv 200–365 p. g<br><i>average daily gain 200–365 days, g</i> | av<br><i>no.</i> | keskmine mass, kg<br><i>average weight, kg</i> | ööp. juurdekasv 200–365 p. g<br><i>average daily gain 200–365 days, g</i> |
|                                |                                | Aberdiin-angus                | lehmikud <i>heifers</i>                        | 930                          | 37   | 841                                  | 37   | 396   | 254              | 1084   | 257   | 263                                  | 1123   | 282   | 350              | 698  | 144   |
| Ab pullikud <i>young bulls</i> | 964                            |                               | 39   | 896                          | 39   | 409                                  | 271  | 1154  | 289              | 276  | 1180  | 142                                  | 419  | 937   | 67               | 364  | 818   |
| Akviteeni hele                 | lehmikud <i>heifers</i>        | 55                            | 43   | 224                          | 41   | 13                                   | 269  | 1132  | 68               | 259  | 1085  | 13                                   | 377  | 691   | 22               | 378  | 610   |
|                                | Ba pullikud <i>young bulls</i> | 46                            | 44   | 174                          | 42   | 24                                   | 268  | 1119  | 88               | 277  | 1170  | 14                                   | 444  | 1066  | 16               | 488  | 1119  |
| Aubrak                         | lehmikud <i>heifers</i>        | 25                            | 36   | 1                            | 36   |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
|                                | Au pullikud <i>young bulls</i> |                               |  |                              |  |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
| Belgia sinine                  | lehmikud <i>heifers</i>        |                               |  | 21                           | 42   |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
|                                | Bb pullikud <i>young bulls</i> |                               |  | 26                           | 45   |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
| Gallovei                       | lehmikud <i>heifers</i>        | 61                            | 28   | 17                           | 25   | 7                                    | 168  | 691   |                  |  |   | 1                                    | 323  | 803   |                  |  |   |
|                                | Ga pullikud <i>young bulls</i> | 55                            | 31   | 21                           | 26   | 3                                    | 171  | 690   |                  |  |   |                                      |  |   |                  |  |   |
| Hereford                       | lehmikud <i>heifers</i>        | 385                           | 41   | 510                          | 40   | 166                                  | 250  | 1048  | 109              | 245  | 1026  | 107                                  | 337  | 626   | 63               | 352  | 754   |
|                                | Hf pullikud <i>young bulls</i> | 467                           | 43   | 535                          | 43   | 256                                  | 274  | 1156  | 128              | 276  | 1167  | 130                                  | 396  | 759   | 43               | 400  | 903   |
| Limusiin                       | lehmikud <i>heifers</i>        | 666                           | 41   | 1034                         | 42   | 256                                  | 251  | 1045  | 218              | 243  | 1007  | 165                                  | 379  | 793   | 144              | 335  | 703   |
|                                | Li pullikud <i>young bulls</i> | 652                           | 43   | 1045                         | 44   | 310                                  | 271  | 1134  | 329              | 265  | 1105  | 114                                  | 449  | 1006  | 110              | 401  | 966   |
| Saler                          | lehmikud <i>heifers</i>        | 2                             | 41   | 34                           | 29   |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
|                                | Sa pullikud <i>young bulls</i> |                               |  | 34                           | 30   |                                      |  |   |                  |  |   |                                      |  |   |                  |  |   |
| Simmental                      | lehmikud <i>heifers</i>        | 314                           | 40   | 474                          | 41   | 112                                  | 260  | 1097  | 187              | 263  | 1105  | 104                                  | 381  | 713   | 96               | 354  | 597   |
|                                | Si pullikud <i>young bulls</i> | 296                           | 42   | 467                          | 43   | 137                                  | 291  | 1244  | 170              | 297  | 1269  | 26                                   | 473  | 979   | 36               | 406  | 940   |
| Šarolee                        | lehmikud <i>heifers</i>        | 471                           | 44   | 511                          | 45   | 206                                  | 261  | 1081  | 106              | 263  | 1034  | 95                                   | 387  | 759   | 16               | 396  | 886   |
|                                | Ch pullikud <i>young bulls</i> | 446                           | 47   | 557                          | 48   | 235                                  | 276  | 1144  | 204              | 299  | 1222  | 28                                   | 471  | 1089  | 11               | 449  | 795   |
| Šoti mägiveis                  | lehmikud <i>heifers</i>        | 112                           | 30   | 42                           | 31   | 1                                    | 162  | 625   |                  |  |   |                                      |  |   | 6                | 218  | 498   |
|                                | Hc pullikud <i>young bulls</i> | 97                            | 31   | 33                           | 31   | 3                                    | 147  | 560   |                  |  |   | 4                                    | 223  | 515   | 7                | 217  | 496   |
| Tirooli hall                   | lehmikud <i>heifers</i>        | 8                             | 39   | 82                           | 39   |                                      |  |   | 14               | 221  | 912   |                                      |  |   | 1                | 379  | 942   |
|                                | Gr pullikud <i>young bulls</i> | 3                             | 40   | 84                           | 40   |                                      |  |   | 12               | 241  | 1018  |                                      |  |   |                  |  |   |
| Wagyu                          | lehmikud <i>heifers</i>        |                               |  | 27                           | 47   |                                      |  |   | 2                | 245  | 1048  |                                      |  |   | 1                | 382  | 806   |
|                                | Wa pullikud <i>young bulls</i> |                               |  | 26                           | 48   |                                      |  |   | 4                | 265  | 1143  |                                      |  |   | 4                | 363  | 809   |

## 41. Lihaveiste taastootmisnäitajad

Reproduction traits of beef cattle

| Tõug<br>Breed     | Poegimisi<br>Calvings total | Elusalt sündinud<br>vasikaid<br>Calves born alive |                          | Surnult sündinud vasikaid<br>Stillbirths |                          |     | Aborte<br>Abortions | Ammlehmade vanus<br>esimesel poegimisel, k<br>Age at 1st calving, m | Poegimisvahemik, p<br>Calving interval, d | Karjasolevate<br>ammlehmade vanus<br>31.12<br>Average age of<br>suckling cows 31.12 |                |
|-------------------|-----------------------------|---|--------------------------|--|--------------------------|-----|---------------------|---|---|---|----------------|
|                   |                             | lehm-<br>vasikad<br>female                        | pull-<br>vasikad<br>male | lehm-<br>vasikad<br>female               | pull-<br>vasikad<br>male | %   |                     |   |   | a, k<br>Y, M  | lakt.<br>lact. |
| Aberdiin-angus Ab | 3474                        | 1660  | 1792                     | 39                                       | 65                       | 2,9 | 9                   | 31,2  | 409                                       | 6 a 4 k   | 2,8            |
| Akviteeni hele Ba | 528                         | 276   | 240                      | 9  | 18                       | 5,0 | 1                   | 32,2  | 406                                       | 6 a 6 k   | 3,0            |
| Aubrak Au         | 67                          | 36  | 30                       |  | 1                        | 1,5 |                     | 39,5  | 404                                       | 6 a 9 k   | 2,6            |
| Belgia sinine Bb  | 31                          | 15  | 17                       | 1  |                          | 3,0 |                     | 24,0  | 433                                       | 7 a 3 k   | 4,3            |
| Gallovei Ga       | 209                         | 112   | 93                       | 1  | 3                        | 1,9 |                     | 41,3  | 431                                       | 7 a 6 k   | 2,9            |
| Hereford Hf       | 2389                        | 1140  | 1214                     | 24                                       | 37                       | 2,5 | 1                   | 34,2  | 402                                       | 6 a 8 k   | 3,1            |
| Limusiin Li       | 2905                        | 1419  | 1396                     | 48                                       | 73                       | 4,1 | 2                   | 31,9  | 398                                       | 6 a 2 k   | 2,7            |
| Piemont Pi        | 6                           | 3   | 3                        |  |                          |     |                     | 27,0  | 398                                       | 6 a 5 k   | 3,2            |
| Saler Sa          | 20                          | 10  | 10                       |  |                          |     |                     | 36,6  | 445                                       | 4 a 11 k  | 1,3            |
| Simmental Si      | 1985                        | 977   | 1031                     | 27                                       | 43                       | 3,4 | 2                   | 31,1  | 395                                       | 6 a 2 k   | 2,8            |
| Šarolee Ch        | 1705                        | 870   | 837                      | 20                                       | 45                       | 3,7 | 7                   | 30,4  | 405                                       | 6 a 3 k   | 2,8            |
| Šoti mägiveis Hc  | 414                         | 220   | 178                      | 4  | 13                       | 4,1 | 4                   | 45,1  | 467                                       | 8 a 2 k   | 3,2            |
| Tirooli hall Gr   | 203                         | 102   | 104                      |  |                          |     |                     | 37,4  | 481                                       | 6 a 10 k  | 2,8            |
| Kokku Total       | 13936                       | 6840  | 6945                     | 173                                      | 298                      | 3,3 | 26                  | 31,9  | 406                                       | 6 a 4 k   | 2,8            |

## 42. Ammlehmade karjast väljamineku põhjused

Culling reasons of suckling cows

| Tõug<br>Breed              | Vanus<br>Age |      | Madal<br>piimikus<br>Low milkability |     | Sõjimis-<br>probleemid<br>Fertility<br>problems |      | Udarahaigused<br>ja vead<br>Udder diseases |      | Raske<br>poegimine<br>Calving<br>difficulties |      | Jäsete<br>haigused ja<br>vead<br>Feet problems |      | Muud<br>haigused<br>Other diseases |      | Halb iseloom<br>Temperament |     | Muud<br>põhjused<br>Other reasons |      | Kokku<br>Total |  |
|----------------------------|--------------|------|--------------------------------------|-----|---|------|--|------|---|------|--|------|------------------------------------|------|-----------------------------|-----|-----------------------------------|------|----------------|--|
|                            | arv<br>no.   | %    | arv<br>no.                           | %   | arv<br>no.                                      | %    | arv<br>no.                                 | %    | arv<br>no.                                    | %    | arv<br>no.                                     | %    | arv<br>no.                         | %    | arv<br>no.                  | %   | arv<br>no.                        | %    | arv<br>no.     |  |
| Aberdiin-angus Ab          | 68           | 18,6 | 8                                    | 2,2 | 59  | 16,1 | 24   | 6,6  | 13  | 3,6  | 34   | 9,3  | 16                                 | 4,4  | 24                          | 6,6 | 120                               | 32,8 | 366            |  |
| Akviteeni hele Ba          | 3            | 2,8  |                                      |     | 9   | 8,3  | 9  | 8,3  | 11  | 10,1 | 12   | 11,0 | 13                                 | 11,9 | 8                           | 7,3 | 43                                | 39,4 | 108            |  |
| Aubrak Au                  |              |      |                                      |     |   |      |  |      | 1   | 25,0 |  |      |                                    |      |                             |     | 3                                 | 75,0 | 4              |  |
| Belgia sinine Bb           | 4            | 44,4 |                                      |     | 1   | 11,1 | 1  | 11,1 | 1   | 11,1 |  |      |                                    |      |                             |     | 2                                 | 22,2 | 9              |  |
| Gallovei Ga                | 5            | 38,5 |                                      |     |   |      | 1  | 7,7  |   |      |  |      |                                    |      |                             |     | 7                                 | 53,8 | 13             |  |
| Hereford Hf                | 70           | 16,7 | 7                                    | 1,7 | 42  | 10,0 | 71   | 16,9 | 25  | 6,0  | 38   | 9,1  | 39                                 | 9,3  | 13                          | 3,1 | 114                               | 27,2 | 419            |  |
| Limusiin Li                | 64           | 17,2 | 1                                    | 0,3 | 30  |      | 15   | 4,0  | 33  | 8,8  | 30   | 8,0  | 24                                 | 6,4  | 28                          | 7,5 | 147                               | 39,4 | 372            |  |
| Piemont Pi                 | 1            | 50,0 |                                      |     |   |      |  |      |   |      |  |      |                                    | 1    | 50,0                        |     |                                   |      | 2              |  |
| Simmental Si               | 26           | 11,1 | 1                                    | 0,4 | 43  | 18,3 | 20   | 8,5  | 9   | 3,8  | 19   | 8,1  | 16                                 | 6,8  | 18                          | 7,7 | 83                                | 35,3 | 235            |  |
| Šarolee Ch                 | 5            | 3,0  | 7                                    | 4,2 | 24  | 14,4 | 22   | 13,2 | 12  | 7,2  | 6  | 3,6  | 14                                 | 8,4  | 10                          | 6,0 | 65                                | 38,9 | 165            |  |
| Šoti mägiveis Hc           | 11           | 18,0 |                                      |     | 7   | 11,5 | 6  | 9,8  | 3   | 4,9  | 6  | 9,8  | 3                                  | 4,9  |                             |     | 25                                | 41,0 | 61             |  |
| Tirooli hall Gr            |              |      |                                      |     |   |      | 1  | 4,8  |   |      |  |      | 3                                  | 14,3 |                             |     | 17                                | 81,0 | 21             |  |
| Kokku Total                | 257          | 14,5 | 24                                   | 1,4 | 215   | 12,1 | 170  | 9,6  | 108   | 6,1  | 145  | 8,2  | 128                                | 7,2  | 102                         | 5,7 | 626                               | 35,3 | 1775           |  |
| Keskmine vanus<br>Avg. age | 11 a         |      | 7 a 11 k                             |     | 6 a 9 k   |      | 7 a 7 k                                    |      | 5 a 11 k                                      |      | 8 a 1 k  |      | 6 a 8 k                            |      | 6 a 6 k                     |     | 6 a 8 k                           |      |                |  |

# Sigade jõudluskontrolli näitajad

## Results of performance recording of pigs

### 43. Emiste seemendamise tulemused

Results of inseminations

| Aasta<br>Year | Farmide<br>Farms | Aastaemiste<br>keskmine arv<br>Avg. no. of<br>yearsows | Esmaseemendusi<br>Sows at 1 <sup>st</sup> ins. | Seemendusi<br>Inseminations | Ümberindluste<br>Return to heat |      | Väljaminek<br>pärast<br>seemendust<br>Culled after ins. | Vanus esma-<br>seemendusel<br>Age at 1 <sup>st</sup> ins. |
|---------------|------------------|--|--|-----------------------------|---------------------------------|------|---|---|
|               | arv no.          |  | %  | arv no.                     | arv no.                         | %    | %   | päevi days  |
| 2018          | 26               | 384  | 20,8   | 28174                       | 3644                            | 12,9 | 5,4   | 245   |
| 2019          | 24               | 424  | 18,3   | 28866                       | 3586                            | 12,4 | 5,2   | 246   |
| 2020          | 25               | 435  | 19,2   | 30358                       | 3085                            | 10,2 | 4,6   | 241   |
| 2021          | 28               | 386  | 16,7   | 29573                       | 3341                            | 11,3 | 5,3   | 245   |
| 2022          | 25               | 354  | 16,2   | 24228                       | 2714                            | 11,2 | 4,8   | 243   |

### 44. Emiste poegimistulemused

Results of farrowing

| Aasta<br>Year | Farmide<br>Farms | Sündinud põrsaid<br>kokku/pesak.<br>Piglets total per litter | Elusalt sündinud põrsaid/pesak.<br>Piglets born alive per litter |                        | Aastaemise kohta sündinud<br>Per sow per year |                                       | Vanus esma-<br>poegimisel<br>Age at 1 <sup>st</sup> farr. |
|---------------|------------------|--|--|------------------------|---|---------------------------------------|---|
|               | arv no.          |  | nooremised<br>gilts  | vanaemised<br>old sows | põrsaid kokku<br>piglets born total           | elusalt põrsaid<br>piglets born alive | päevi<br>days   |
| 2018          | 26               | 13,3   | 11,7   | 12,6                   | 28,8  | 26,8                                  | 368   |
| 2019          | 24               | 13,9 *   | 12,1   | 13,0                   | 31,0 *  | 28,5                                  | 368   |
| 2020          | 25               | 14,4 *   | 12,3   | 13,4                   | 32,1 *  | 29,3                                  | 363   |
| 2021          | 28               | 14,7 *   | 12,5   | 13,6                   | 33,0 *  | 29,9                                  | 367   |
| 2022          | 25               | 14,9 *   | 12,5   | 13,7                   | 33,7 *  | 30,5                                  | 366   |

\*sh muumiad / incl. mummies

### 45. Emiste imetamisperioodi näitajad

Reproduction traits of sows

| Aasta<br>Year | Farmide<br>Farms | Võõrutatud pesakondi<br>aastaemise kohta<br>Weaned litters per sow<br>per year | Keskmine võõrutatud põrsaste arv<br>Avg. no. of weaned piglets |                                      | Imikpõrsaste<br>kaod<br>Losses of<br>suckling piglets | Imetamisperioodi<br>pikkus<br>Lactation | Vabaperioodi<br>pikkus<br>Dry period |
|---------------|------------------|--|--|--------------------------------------|---|---|--------------------------------------|
|               | arv no.          |  | pesakonnas<br>per litter                                       | aastaemise kohta<br>per sow per year | %   | päevi days                              | päevi days                           |
| 2018          | 26               | 2,2  | 10,8   | 23,5                                 | 11,4  | 27,6                                    | 5,9                                  |
| 2019          | 24               | 2,2  | 11,3   | 25,2                                 | 10,8  | 27,3                                    | 6,0                                  |
| 2020          | 25               | 2,3  | 11,6   | 26,4                                 | 10,9  | 27,3                                    | 6,0                                  |
| 2021          | 28               | 2,3  | 11,7   | 26,4                                 | 11,7  | 27,5                                    | 5,7                                  |
| 2022          | 25               | 2,3  | 11,8   | 27,1                                 | 11,7  | 27,7                                    | 5,7                                  |

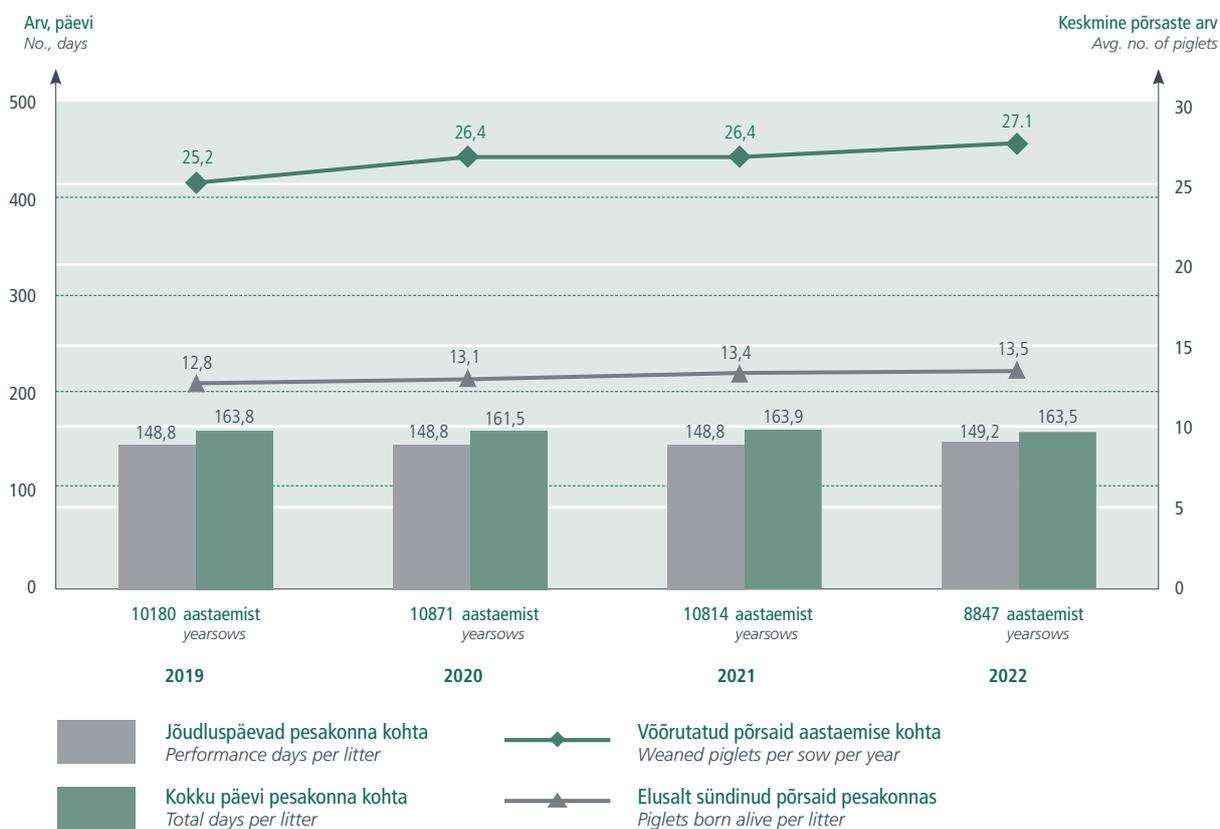
## 46. Emiste kasutamise efektiivsus

Sow using effectiveness

| Aasta<br>Year | Farmide<br>Farms<br>arv no. | Kasutamine väljaminekuni<br>Using until culling |                        |   |  | Päevad pesakonna kohta<br>Days per litter |                                  |   |  |   |  |
|---------------|-----------------------------|---|------------------------|---|--|---|----------------------------------|---|--|---|--|
|               |                             | pesakondade arv<br>no. of litters               | kasutusaastat<br>years | võrutusest väljaminekuni, p<br>days from weaning to culling | seemendusest väljaminekuni, p<br>days from insemination to culling | kokku<br>total                            | jõudluspäevi<br>performance days | ebaproductiivseid päevi<br>nonproductive days | ümberindluspäevi<br>days from insemination to return | võrutusest väljaminekuni, p<br>days from weaning to culling | seemendusest väljaminekuni, p<br>days from insemination to culling |
| 2018          | 26                          | 3,6   | 1,9                    | 6,8   | 76,9   | 165,3                                     | 148,7                            | 16,6  | 7,9  | 1,0   | 6,3  |
| 2019          | 24                          | 3,7   | 1,8                    | 7,4   | 76,8   | 163,8                                     | 148,8                            | 15,0  | 6,5  | 1,0   | 6,1  |
| 2020          | 25                          | 3,9   | 2,0                    | 7,6   | 69,9   | 161,5                                     | 148,8                            | 12,7  | 5,3  | 1,0   | 4,8  |
| 2021          | 28                          | 3,8   | 1,9                    | 9,7   | 74,1   | 163,9                                     | 148,8                            | 15,1  | 6,2  | 1,4   | 5,7  |
| 2022          | 25                          | 4,1   | 2,0                    | 8,2   | 67,7   | 163,5                                     | 149,2                            | 14,3  | 5,9  | 1,3   | 4,7  |

## 47. Emiste jõudlusnäitajad

Results of sow per year performance



## 48. Taastootmisnäitajad emise tõu järgi

Reproduction traits by breed of sow

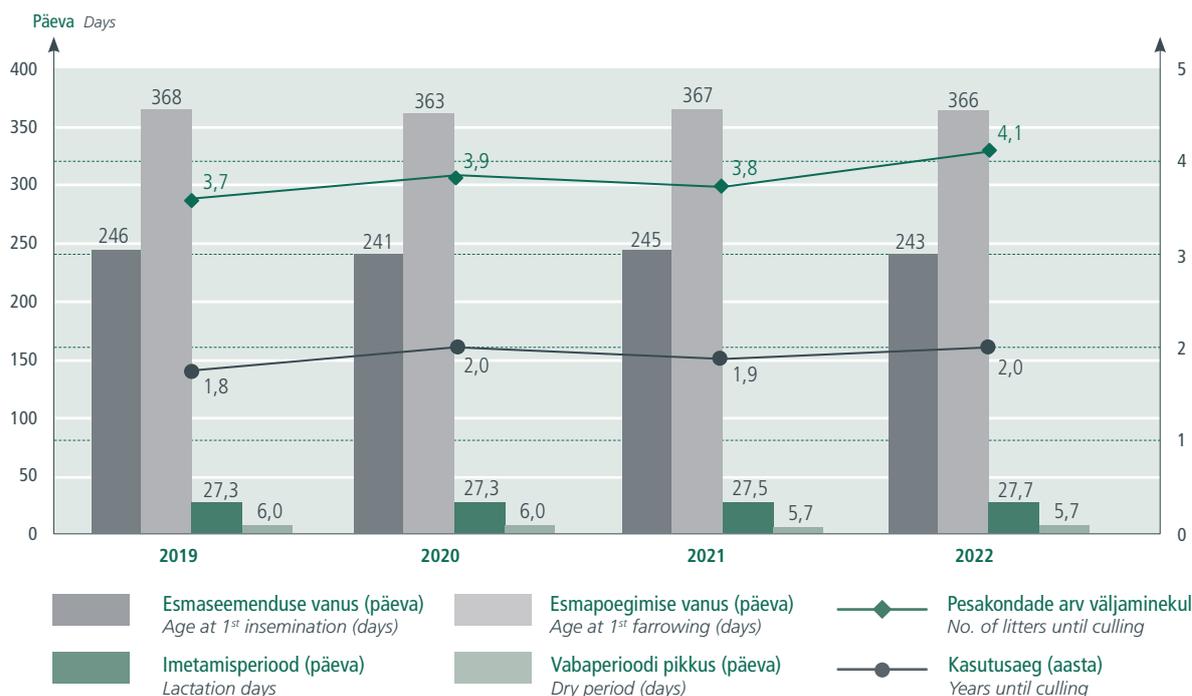
| Emise tõug<br>Breed of sow     | Aastaemiste arv<br>No. of sows per year | Põrsaid pesakonnas**<br>No. of piglets per litter** | Elusalt sündinud põrsaid<br>Piglets born alive |   |  |                                      | Esmapoegimisvanus, p<br>Age at 1 <sup>st</sup> farrowing,<br>days | Võõrutatud põrsaid<br>No. of weaned piglets |                                      | Imetamisperioodi<br>pikkus, p<br>Lactation days | Imikpõrsaste kaod, %<br>Losses of suckling<br>piglets |
|--------------------------------|---|---|--|---|--|--------------------------------------|---|---|--------------------------------------|---|---|
|                                |   |   | pesakonnas<br>per litter                       | nooremise pesakonnas<br>per gilt litter | vanaemise pesakonnas<br>per old sow litter | aastaemise kohta<br>per sow per year |   | pesakonnas<br>per litter                    | aastaemise kohta<br>per sow per year |   |   |
| L                              | 878                                     | 14,3  | 12,7   | 12,2                                    | 12,8                                       | 28,1                                 | 362   | 11,5  | 26,1                                 | 26,8  | 11,7  |
| Y                              | 1619                                    | 14,9  | 13,5   | 12,3                                    | 13,8                                       | 29,4                                 | 373   | 11,7  | 26,3                                 | 27,9  | 12,2  |
| D*                             | 19                                      | 10,1  | 8,9  | 8,2                                     | 9,4  | 16,0                                 | 377   | 8,3   | 14,2                                 | 25,4  | 18,2  |
| LxY                            | 2867                                    | 15,2  | 13,9   | 12,9                                    | 14,1                                       | 31,4                                 | 368   | 12,2  | 27,6                                 | 27,4  | 11,0  |
| YxL                            | 1669                                    | 15,7  | 14,1   | 13,2                                    | 14,2                                       | 33,5                                 | 362   | 12,0  | 29,3                                 | 28,0  | 11,2  |
| LxLY*                          | 14                                      | 13,7  | 11,5   |   | 11,5                                       | 25,9                                 |   | 10,4  | 24,2                                 | 28,3  | 12,4  |
| LxYL                           | 1264                                    | 14,1  | 12,8   | 12,1                                    | 13,0                                       | 29,6                                 | 355   | 11,5  | 26,9                                 | 26,6  | 11,9  |
| YxLY                           | 163                                     | 13,6  | 11,4   | 10,7                                    | 11,6                                       | 24,5                                 | 387   | 10,1  | 22,0                                 | 31,3  | 10,4  |
| YxYL*                          | 3                                       | 16,9  | 12,6   |   | 12,6                                       | 39,8                                 |   | 9,9   | 31,3                                 | 26,3  | 25,4  |
| DxL*                           | 2                                       | 9,5   | 9,0  | 9,0                                     | 9,0  | 17,1                                 | 353   | 13,0  | 18,5                                 | 25,3  | 11,1  |
| DxLY*                          | 5                                       | 12,9  | 12,4   | 7,5                                     | 13,4                                       | 29,6                                 | 399   | 11,4  | 27,2                                 | 27,0  | 5,1   |
| DxYL*                          | 1                                       | 18,3  | 15,7   |   | 15,7                                       | 47,0                                 |   | 11,5  | 23,0                                 | 34,0  | 16,1  |
| Tõug teadmata<br>Breed unknown | 344                                     | 14,0  | 12,6   | 12,2                                    | 12,7                                       | 27,7                                 | 374   | 10,1  | 21,9                                 | 33,3  | 18,7  |
| <b>Kokku Total</b>             | <b>8848</b>                             | <b>14,9</b>   | <b>13,5</b>                                    | <b>12,5</b>                             | <b>13,7</b>                                | <b>30,5</b>                          | <b>366</b>  | <b>11,8</b>                                 | <b>27,1</b>                          | <b>27,7</b>                                     | <b>11,7</b>   |

\* Aastaemiste arv väike, tulemuste usaldusväärsus madal / Number of sow per year is small, reliability of results is low

\*\* sh muumiad / incl. mummies

## 49. Majanduslikud näitajad emiste kasutamisel

Economic values in using sows



## 50. Karja suurus ja emiste kasutamine

Herd size and sow using

| Karja suurus<br>Herd size | Karjad<br>Herds |         | Emised<br>Sows |         | Elusalt sündinud<br>pesakonna kohta<br>Alive born piglets<br>per litter | Võõrutatud põrsaid<br>pesakonnas<br>Weaned piglets<br>per litter | Kasutamine<br>väljaminekuni<br>Using until culling | *Kunstliku<br>seemenduse<br>AI rate | Pesakondade arv<br>väljaminekul<br>No. of litters<br>to culling |
|---------------------------|-----------------|---------|----------------|---------|---|--|--|-------------------------------------|---|
|                           | emist sows      | arv no. | %              | arv no. |   |  |  |                                     |   |
| 0–100                     | 3               | 12,0    | 56             | 0,8     | 13,7  | 11,4   | 2,1  | 32,4                                | 3,6   |
| 101–200                   | 3               | 12,0    | 454            | 6,3     | 12,1  | 10,3   | 2,1  | 45,0                                | 4,2   |
| 201–300                   | 8               | 32,0    | 1917           | 26,7    | 13,2  | 12,0   | 1,7  | 80,1                                | 3,3   |
| 301–400                   | 6               | 24,0    | 2103           | 29,2    | 13,3  | 11,3   | 2,1  | 46,0                                | 4,5   |
| 401–500                   | 2               | 8,0     | 949            | 13,2    | 13,5  | 11,7   | 1,9  | 100,0                               | 4,1   |
| > 500                     | 3               | 12,0    | 1711           | 23,8    | 14,4  | 12,6   | 2,1  | 54,5                                | 4,7   |

\* Arvestatud seemendusjaamast ostenud ja/või imporditud spermat / Included sperm bought from AI station and/or imported sperm

## 51. Tiinestuvus

Conception rate of sows

| Näitajad<br>Traits                                  | Seemenduste arv<br>No. of inseminations |       |       | Tiinestuvus (%)<br>Conception rate (%) |      |      | Poegimiste %<br>Farrowing rate (%) |      |      | Elusalt sünd. põrsaid pesak.<br>Alive born piglets per litter |      |      |
|---|---|-------|-------|--|------|------|------------------------------------|------|------|---|------|------|
|   | 2020                                    | 2021  | 2022  | 2020                                   | 2021 | 2022 | 2020                               | 2021 | 2022 | 2020  | 2021 | 2022 |
| Kokku<br>Total                                      | 30005                                   | 30403 | 25087 | 82,7                                   | 82,0 | 82,0 | 81,0                               | 80,1 | 79,7 | 13,1  | 13,4 | 13,5 |
| Loomulik paaritus (LP)<br>Natural service (NS)      | 844                                     | 672   | 326   | 79,7                                   | 76,9 | 77,3 | 79,6                               | 76,6 | 77,3 | 11,4  | 10,7 | 12,1 |
| Kunstlik seemendus (KS)*<br>Artificial insem. (AI)* | 17981                                   | 18542 | 15792 | 82,4                                   | 81,9 | 82,0 | 80,8                               | 80,0 | 79,5 | 13,2  | 13,5 | 13,6 |
| Esmaseemendus LP<br>1 <sup>st</sup> service by NS   | 265                                     | 178   | 79    | 85,7                                   | 85,4 | 74,7 | 85,7                               | 85,4 | 74,7 | 11,0  | 10,7 | 11,2 |
| Esmaseemendus KS<br>1 <sup>st</sup> service by AI   | 2614                                    | 2581  | 2167  | 79,2                                   | 73,2 | 74,7 | 77,9                               | 71,8 | 72,5 | 12,2  | 12,4 | 12,6 |
| 2 ja rohkem pesakonda LP<br>2 and more litters NS   | 548                                     | 471   | 235   | 76,3                                   | 73,9 | 77,9 | 76,1                               | 73,7 | 77,9 | 11,6  | 10,8 | 12,4 |
| 2 ja rohkem pesakonda KS<br>2 and more litters AI   | 14647                                   | 15216 | 12876 | 83,7                                   | 84,3 | 84,7 | 82,0                               | 82,3 | 82,3 | 13,4  | 13,7 | 13,8 |

\* Arvestatud seemendusjaamast ostenud ja/või imporditud spermat / Included sperm bought from AI station and/or imported sperm  
Arvestusperiood 1. september – 31. august / Data from September 1st to August 31st

## 52. Geneetiliselt hinnatud järglaste võrdlus

Comparison of genetically evaluated progeny

| Tõug<br>Breed  | Seemendusjaama ja importkultide järglased<br>IS and imported boars' offspring |   |   |   |   |                              |                                 |                                |            | Omarja kultide järglased<br>Own herd boars' offspring |   |   |   |                              |                                 |                                |
|----------------|---|---|---|---|---|------------------------------|---------------------------------|--------------------------------|------------|---|---|---|---|------------------------------|---------------------------------|--------------------------------|
|                | arv<br>no.  | vanus testimisel, päeva<br>test age, days | ööpäevane juurdekasv (100 kg), g<br>avg. daily gain (100 kg), g | seljapeki paksus (100 kg), mm *<br>backfat (100 kg), mm | lihassilma läbimõõt (100 kg), mm *<br>muscle depth (100 kg), mm | T. indeks<br>herd test index | jõudluse SAV<br>performance RBV | viljakuse SAV<br>fertility RBV | arv<br>no. | vanus testimisel, päeva<br>test age, days             | ööpäevane juurdekasv (100 kg), g<br>avg. daily gain (100 kg), g | seljapeki paksus (100 kg), mm *<br>backfat (100 kg), mm | lihassilma läbimõõt (100 kg), mm *<br>muscle depth (100 kg), mm | T. indeks<br>herd test index | jõudluse SAV<br>performance RBV | viljakuse SAV<br>fertility RBV |
| L              | 394   | 189,4                                     | 564,4   | 9,4   | 64,8  | 111,2                        | 112,5                           | 115,9                          | 154        | 189,3   | 551,5   | 8,5   | 63,3  | 111,5                        | 104,3                           | 113,7                          |
| Y              | 628   | 190,7                                     | 549,5   | 11,4  | 63,8  | 105,3                        | 114,4                           | 114,3                          | 210        | 204,5   | 510,0   | 11,8  | 63,1  | 104,9                        | 105,6                           | 105,0                          |
| LxY            | 1184  | 185,2                                     | 575,7   | 10,7  | 64,2  | 108,3                        | 111,9                           | 115,5                          | 102        | 182,8   | 570,2   | 9,4   | 63,8  | 110,1                        | 104,4                           | 115,3                          |
| YxL            | 508   | 183,8                                     | 589,0   | 10,8  | 64,4  | 109,3                        | 115,2                           | 114,8                          | 132        | 180,9   | 572,8   | 9,7   | 64,0  | 108,9                        | 110,7                           | 112,2                          |
| LxYL           | 769   | 197,7                                     | 542,4   | 9,6   | 64,5  | 111,1                        | 112,1                           | 116,2                          |            |   |   |   |   |                              |                                 |                                |
| YxLY           | 10  | 232,1                                     | 464,5   | 9,7   | 64,4  | 113,7                        | 108,8                           | 113,9                          |            |   |   |   |   |                              |                                 |                                |
| Kokku<br>Total | 3493  | 189,3                                     | 564,0   | 10,4  | 64,3  | 108,9                        | 112,9                           | 115,4                          | 598        | 191,7   | 544,8   | 10,1  | 63,4  | 108,4                        | 105,9                           | 110,6                          |

\* Mõõdetud eluséal vastavalt Piglog 105 meetodikale / Measured on live pig according to methodology of Piglog 105

## 53. Keskmised näitajad karjatestil

Average results on farm test



## 54. Keskmised näitajad karjatesti tõugude viisi

Avg. results of different breeds on farm test by breed

| Puhtatõulised<br>Purebred                     | Eesti maatõug (L) |       |       | Eesti suur valge (Y) |       |       | Pieträän (P) |       |      |
|---|-------------------|-------|-------|----------------------|-------|-------|--------------|-------|------|
|   | 2020              | 2021  | 2022  | 2020                 | 2021  | 2022  | 2020         | 2021  | 2022 |
| <b>EMIKUD GILTS</b>                           |                   |       |       |                      |       |       |              |       |      |
| Testitute arv<br>No. of animals               | 1018              | 679   | 547   | 1202                 | 927   | 831   | 14           | 4     |      |
| Seljapeki paksus (mm)<br>Backfat (mm)         | 9,2               | 10,2  | 9,9   | 11,0                 | 12,0  | 12,1  | 7,8          | 9,3   |      |
| Lihassilm (mm)<br>Muscle depth (mm)           | 66,3              | 66,8  | 66,3  | 65,6                 | 65,7  | 65,1  | 67,4         | 66,8  |      |
| Juurdekasv 100 kg (g/ööp)<br>Daily gain (g/d) | 583,0             | 578,0 | 561,0 | 562,0                | 550,0 | 539,0 | 575,0        | 578,0 |      |
| Vanus testimisel (p)<br>Test age (d)          | 182,4             | 185,0 | 189,4 | 187,4                | 191,5 | 194,4 | 171,7        | 168,0 |      |
| <b>KULDIKUD BOARS</b>                         |                   |       |       |                      |       |       |              |       |      |
| Testitute arv<br>No. of animals               | 10                | 3     | 1     | 11                   | 4     | 7     | 8            | 5     |      |
| Seljapeki paksus (mm)<br>Backfat (mm)         | 8,7               | 7,3   | 12,0  | 9,7                  | 10,4  | 11,1  | 7,9          | 8,0   |      |
| Lihassilm (mm)<br>Muscle depth (mm)           | 66,0              | 63,0  | 64,0  | 66,9                 | 64,3  | 65,7  | 66,4         | 68,0  |      |
| Juurdekasv 100 kg (g/ööp)<br>Daily gain (g/d) | 665,0             | 650,0 | 612,0 | 631,0                | 568,0 | 654,0 | 581,0        | 583,0 |      |
| Vanus testimisel (p)<br>Test age (d)          | 156,3             | 157,3 | 171,0 | 169,2                | 182,5 | 165,0 | 169,4        | 168,0 |      |

| Ristandid<br>Crossbred                        | LxY ja YxL<br>Emikud gilts |       |       | LxYL ja YxLY<br>Emikud gilts |       |       | DxL<br>Kuldikud boars |       |       |
|---|----------------------------|-------|-------|------------------------------|-------|-------|-----------------------|-------|-------|
|   | 2020                       | 2021  | 2022  | 2020                         | 2021  | 2022  | 2020                  | 2021  | 2022  |
| Testitute arv<br>No. of animals               | 2967                       | 2278  | 1926  | 835                          | 818   | 779   | 14                    | 7     | 6     |
| Seljapeki paksus (mm)<br>Backfat (mm)         | 10,1                       | 11,1  | 11,4  | 10,7                         | 11,2  | 10,6  | 9,5                   | 12,0  | 11,8  |
| Lihassilm (mm)<br>Muscle depth (mm)           | 66,1                       | 66,4  | 66,2  | 67,1                         | 67,6  | 67,2  | 67,3                  | 69,9  | 70,2  |
| Juurdekasv 100 kg (g/ööp)<br>Daily gain (g/d) | 598,0                      | 585,0 | 579,0 | 561,0                        | 554,0 | 541,0 | 593,0                 | 532,0 | 550,0 |
| Vanus testimisel (p)<br>Test age (d)          | 177,4                      | 183,6 | 184,4 | 193,7                        | 195,8 | 198,2 | 180,9                 | 200,4 | 194,3 |

## 55. Sigade rümpade näitajad tõugude viisi 2022. a

Pig carcass characteristics by breed 2022

| Tõug<br>Breed   | YxY   | LxL   | LxY   | YxL   | D***xLY | D***xYL |
|---|-------|-------|-------|-------|---------|---------|
| Kontrollitud järglaste arv<br>No. of measured progeny         | 24    | 22    | 71    | 60    | 215     | 122     |
| Tapmisvanus, päeva<br>Slaughter age, days                     | 177,7 | 178,8 | 182,2 | 174,9 | 166,0   | 172,0   |
| Std. h. tapmisvanus<br>Slaughter age stdev                    | 12,5  | 4,5   | 12,6  | 7,3   | 16,9    | 7,9     |
| Rümba mass, kg<br>Carcass weight, kg                          | 79,9  | 81,2  | 80,7  | 78,4  | 76,8    | 81,2    |
| Std. h. rümba mass<br>Carcass weight stdev                    | 10,6  | 7,5   | 6,3   | 7,4   | 7,9     | 7,5     |
| Rümba juurdekasv, g/ööp<br>Carcass gain, g/d                  | 450,0 | 454,0 | 443,0 | 448,0 | 463,0   | 472,0   |
| Std. h. rümba juurdekasv<br>Carcass gain stdev                | 40,8  | 46,0  | 45,5  | 41,7  | 50,5    | 42,8    |
| Rümba pikkus, cm<br>Carcass length, cm                        | 97,8  | 100,0 | 99,8  | 97,7  | 97,5    | 98,2    |
| Std. h. rümba pikkus<br>Carcass length stdev                  | 5,0   | 2,4   | 3,1   | 3,0   | 3,3     | 3,3     |
| Seljapekk 6.–7. roidelt, mm*<br>Backfat thickness, mm         | 19,8  | 19,0  | 20,2  | 19,6  | 19,3    | 19,8    |
| Std. h. seljapekk 6.–7. roidelt<br>Backfat thickness stdev    | 3,1   | 3,4   | 4,4   | 3,3   | 4,0     | 4,0     |
| Keskmine seljapekk, mm**<br>Average backfat thickness, mm     | 18,5  | 18,0  | 19,0  | 18,5  | 18,4    | 18,5    |
| Std. h. keskmine seljapekk<br>Average backfat thickness stdev | 2,4   | 3,2   | 3,1   | 2,7   | 3,0     | 3,2     |
| Tailiha %<br>Lean content, %                                  | 59,0  | 60,4  | 59,4  | 59,1  | 58,8    | 58,6    |
| Std. h. tailiha %<br>Lean content stdev                       | 2,3   | 2,8   | 2,3   | 1,7   | 2,0     | 2,1     |
| SEUROP klassid, % rümpadest<br>SEUROP classes, % of carcasses | S     | 49    | 67    | 53    | 48      | 38      |
|   | E     | 51    | 33    | 47    | 52      | 61      |
|   | U     | -     | -     | -     | -       | 1       |
|   |       |       |       |       |         | 7       |

\* Mõõdetud rümba selja keskjoonelt / Measured from midline of the back of carcass

\*\* Nelja mõõtmekeskmine / Average of four measurements

\*\*\* Segusperma / Mixed semen

## Sigade geneetiline hindamine 2022

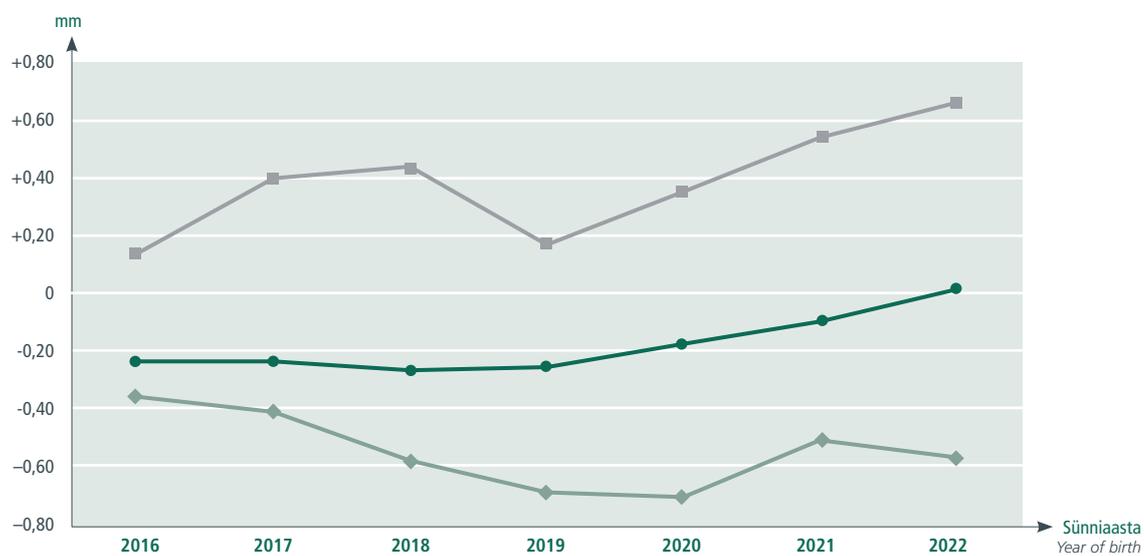
|                                     |   |                      |                                     |
|-------------------------------------|---|----------------------|-------------------------------------|
| <b>Hinnatavad tõud</b>              | eesti maatõug ja eesti suur valge ning nende omavahelised ristandid   |                      |                                     |
| <b>Hinnatavad tunnused</b>          | <b>jõudlusel:</b> seljapeki paksus (mm), lihassilm (mm), ööpäevane juurdekasv (g/ööp)<br><b>viljakusel:</b> elusalt sündinud põrsaste arv, sumult sündinud põrsaste arv, hukkunud imikpõrsaste arv, poegimisvahemik päevades, nisade arv karjatestil.   |                      |                                     |
| <b>Geneetilised parameetrid</b>     | <b>jõudluse tunnus</b>  | <b>h<sup>2</sup></b> | <b>viljakuse tunnus</b>             |
|                                     | seljapeki paksus (mm)   | 0,30                 | elusalt sündinud põrsaste arv (esp) |
|                                     | lihassilm (mm)  | 0,17                 | sumult sündinud põrsaste arv (ssp)  |
|                                     | ööpäevane juurdekasv (g)  | 0,14                 | hukkunud imikpõrsaste arv (hip)     |
|                                     |   |                      | poegimisvahemik päevades (pgv)      |
|                                     |   |                      | nisade arv karjatestil (nisad)      |
| <b>Efektid jõudluse hindamisel</b>  | sugu, tõug, hindamisgrupp, pesakond, testimismass, hinnatav loom  |                      |                                     |
| <b>Efektid viljakuse hindamisel</b> | tõug, hindamisgrupp, emise ja kuldi tõu tüüp, seemendustüüp, pesakondade arv emisel, seemenduskult, emist mõjutav keskkond, hinnatav loom   |                      |                                     |
| <b>Hindamise meetod</b>             | BLUP - loomamudel   |                      |                                     |
| <b>Aretusväärtuste esitamine</b>    | Suhteline aretusväärtus SAV väljendatakse punktides, kehtestades baasloomade keskmiseks 100 punkti ja standardhälbeks 6 punkti. Jõudluse suhtelist aretusväärtust (J_SAV) ja viljakuse suhtelist aretusväärtust (V_SAV) hinnatakse eraldi. Koondaretusväärtuses (K_SAV) sisalduvad need mõlemad.            |                      |                                     |
|                                     | $J\_SAV = [(K_{pekk} * AV_{pekk} + K_{lihas} * AV_{lihas} + K_{juurdekasv} * AV_{juurdekasv} - AV_{baasloom}) / S_{baasloom} * S] + 100$ $V\_SAV = [(K_{esp} * AV_{esp} + K_{ssp} * AV_{ssp} + K_{hip} * AV_{hip} + K_{pgv} * AV_{pgv} + K_{nisad} * AV_{nisad} - AV_{baasloom}) / S_{baasloom} * S] + 100$ |                      |                                     |
| <b>Majanduslikud kaalud SAVs</b>    | <b>J_SAV</b>  | <b>V_SAV</b>         | <b>K_SAV</b>                        |
|                                     | Seljapeki paksus 20%  | esp 44%              | J_SAV 40%                           |
|                                     | Lihassilma läbimõõt 40%   | ssp 16%              | V_SAV 60%                           |
|                                     | Ööpäevane juurdekasv 40%  | hip 20%              |                                     |
|                                     |   | pgv 10%              |                                     |
|                                     |   | nisad 10%            |                                     |
| <b>Geneetiline alus</b>             | Emiste ja kultide aretusväärtused korrigeeritakse baasloomade aretusväärtuste keskmisele. Baasloomadeks on 2015. aastal sündinud sead.  |                      |                                     |
| <b>Avaldamine</b>                   | Aretusväärtused hinnatakse ja avaldatakse igal nädalal.   |                      |                                     |

## Genetic Evaluation for Pigs 2022

|  |   |                      |                                   |
|--|---|----------------------|-----------------------------------|
| <b>Breeds included</b>                                 | Landrace (L), Yorkshire (Y) and crossbreds  |                      |                                   |
| <b>Traits evaluated</b>                                | <b>for performance:</b> backfat (mm), muscle depth (mm), daily gain (g)<br><b>for fertility:</b> piglets born alive, stillborn piglets, losses of suckling piglets, farrowing interval in days, teats at herd-test  |                      |                                   |
| <b>Genetic parameters applied</b>                      | <b>Performance traits</b>   | <b>h<sup>2</sup></b> | <b>Fertility traits</b>           |
|  | Backfat   | 0.30                 | Piglets born alive (BA)           |
|  | Muscle depth (mm)   | 0.17                 | Stillborn piglets (SB)            |
|  | Daily gain  | 0.14                 | Losses of suckling piglets (Loss) |
|  |   |                      | Farrowing interval in days (FI)   |
|  |   |                      | Teats at herd-test (Teats)        |
| <b>Effects in the model for performance gen. eval.</b> | sex, breed, herd-year-season groups, litter, weight on the test, animal   |                      |                                   |
| <b>Effects in the model for fert. gen. eval.</b>       | breed, herd-year-season groups, breed type of sow and boar, insemination type, no. of litters of sow, boar, permanent environment of sow, animal  |                      |                                   |
| <b>Method of evaluation</b>                            | Multiple-trait BLUP Animal model  |                      |                                   |
| <b>Expression of genetic evaluations</b>               | Relative breeding values (RBV) with mean of 100 and std. dev. of 6 points, combining breeding values of evaluated traits. Relative breeding values for performance (P_RBV) and for fertility (F_RBV) are estimated separately. Total breeding value (T_RBV) contains both values.           |                      |                                   |
|  | $P\_RBV = [(C_{backfat} * BV_{backfat} + C_{muscle} * BV_{muscle} + C_{daily\ g} * BV_{daily\ g} - BV_{base}) / S_{base} * S] + 100$ $F\_RBV = [(C_{BA} * BV_{BA} + C_{SB} * BV_{SB} + C_{loss} * BV_{loss} + C_{FI} * BV_{FI} + C_{teats} * BV_{teats} - BV_{base}) / S_{base} * S] + 100$ |                      |                                   |
| <b>Quantity of relative economic weights</b>           | <b>P_RBV</b>  | <b>F_RBV</b>         | <b>T_RBV</b>                      |
|  | Backfat 20%   | BA 44%               | P_RBV 40%                         |
|  | Muscle depth 40%  | SB 16%               | F_RBV 60%                         |
|  | Daily gain 40%  | Loss 20%             |                                   |
|  |   | FI 10%               |                                   |
|  |   | Teats 10%            |                                   |
| <b>Genetic base</b>                                    | Breeding values of sows and boars are adjusted according to average of breeding values of base animals. Base animals are pigs born in 2015.   |                      |                                   |
| <b>Publication</b>                                     | Breeding values are estimated and published weekly.   |                      |                                   |

## 56. Seljapeki paksuse geneetiline trend tõugude viisi

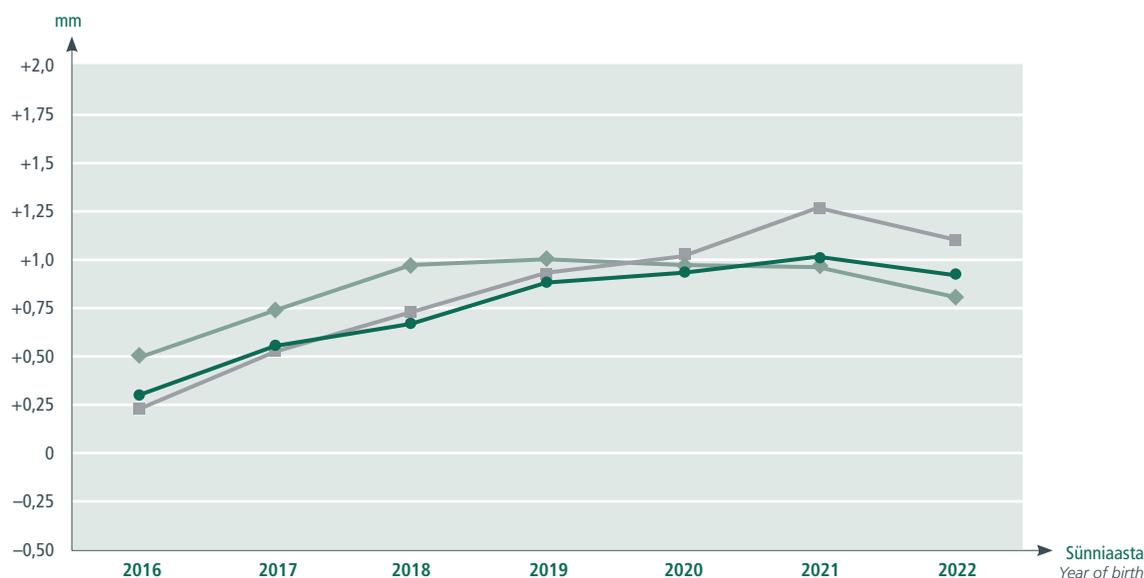
Genetic trend of backfat by breed



|                                 |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ◆ Eesti maatõug<br>Landrace     | -0,37 | -0,41 | -0,59 | -0,70 | -0,71 | -0,52 | -0,58 |
| ■ Eesti suur valge<br>Yorkshire | +0,12 | +0,40 | +0,42 | +0,19 | +0,34 | +0,52 | +0,64 |
| ● Ristandid<br>Crossbred        | -0,25 | -0,25 | -0,28 | -0,27 | -0,19 | -0,10 | -0,03 |

## 57. Lihassilma läbimõõdu geneetiline trend tõugude viisi

Genetic trend of muscle depth by breed



|                                 |       |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| ◆ Eesti maatõug<br>Landrace     | +0,51 | +0,75 | +0,98 | +1,00 | +0,98 | +0,96 | +0,79 |
| ■ Eesti suur valge<br>Yorkshire | +0,25 | +0,54 | +0,74 | +0,94 | +1,09 | +1,26 | +1,11 |
| ● Ristandid<br>Crossbred        | +0,32 | +0,55 | +0,71 | +0,89 | +0,96 | +1,05 | +0,90 |

## 58. Viljakuse geneetiline trend tõugude viisi

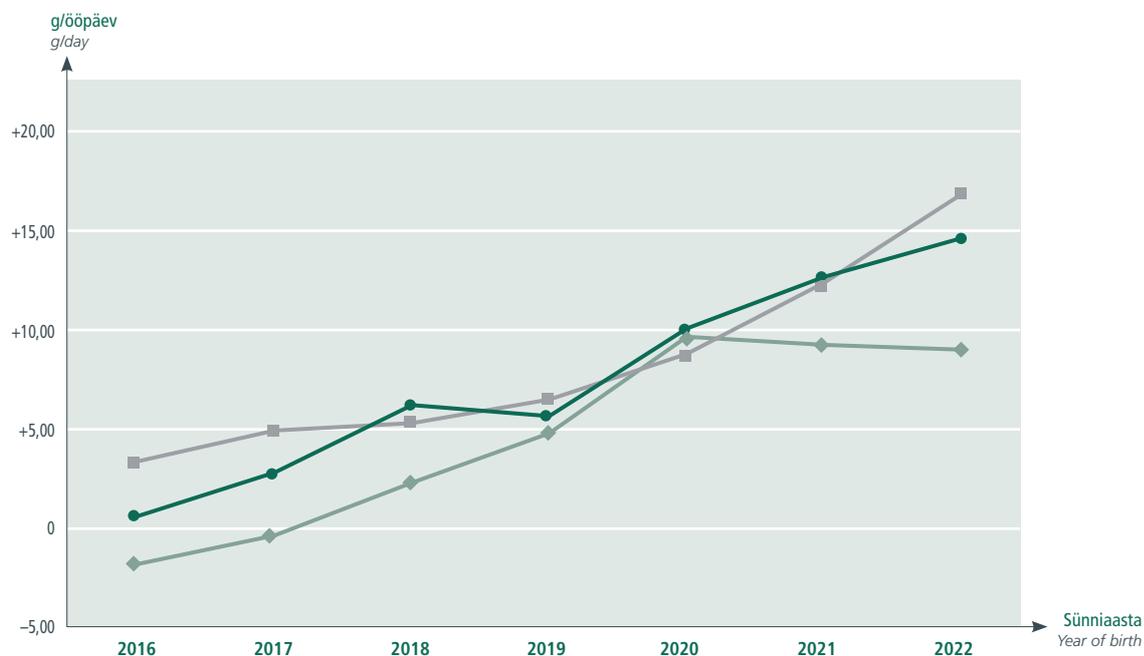
Genetic trend of fertility by breed



|                               | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  | 2022  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Eesti maatõug<br>Landrace     | +0,56 | +0,72 | +1,14 | +0,94 | +1,26 | +1,49 | +1,60 |
| Eesti suur valge<br>Yorkshire | -0,10 | +0,67 | +0,85 | +1,25 | +1,52 | +1,69 | +0,91 |
| Ristandid<br>Crossbred        | +0,19 | +0,69 | +1,09 | +1,38 | +1,54 | +1,65 | +1,54 |

## 59. Juurdekasvu geneetiline trend tõugude viisi

Genetic trend of daily gain by breed



|                               | 2016  | 2017  | 2018  | 2019  | 2020  | 2021   | 2022   |
|-------------------------------|-------|-------|-------|-------|-------|--------|--------|
| Eesti maatõug<br>Landrace     | -1,86 | -0,44 | +2,18 | +4,61 | +9,40 | +9,00  | +8,75  |
| Eesti suur valge<br>Yorkshire | +3,23 | +4,76 | +5,13 | +6,30 | +8,55 | +12,08 | +16,46 |
| Ristandid<br>Crossbred        | +0,52 | +2,69 | +6,03 | +5,47 | +9,81 | +12,37 | +14,29 |

## 60. Hinnatud kultide ja emiste keskmised aretusväärtused

Avg. Estimated Breeding Values (EBV) of boars and sows

| Sünniaasta<br>Year of birth | arv no. | Kuldid<br>Boars            |                           |                        |                    |                  | Emised<br>Sows             |                           |                        |                    |                  |       |
|-----------------------------|---------|----------------------------|---------------------------|------------------------|--------------------|------------------|----------------------------|---------------------------|------------------------|--------------------|------------------|-------|
|                             |         | seljapeki<br>paksuse<br>AV | lihassilma<br>AV          | juurde-<br>kasvu<br>AV | jõudluse<br>SAV    | viljakuse<br>SAV | seljapeki<br>paksuse<br>AV | lihassilma<br>AV          | juurde-<br>kasvu<br>AV | jõudluse<br>SAV    | viljakuse<br>SAV |       |
|                             |         | backfat<br>EBV<br>mm       | muscle depth<br>EBV<br>mm | daily gain<br>EBV<br>g | performance<br>RBV | fertility<br>RBV | backfat<br>EBV<br>mm       | muscle depth<br>EBV<br>mm | daily gain<br>EBV<br>g | performance<br>RBV | fertility<br>RBV |       |
| 2013                        | 217     | +0,30                      | -0,44                     | +3,10                  | 98,2               | 100,8            | 7351                       | +0,65                     | -0,90                  | -1,77              | 93,1             | 97,0  |
| 2014                        | 135     | +0,30                      | -0,03                     | +4,98                  | 101,6              | 102,7            | 6005                       | +0,58                     | -0,65                  | +0,77              | 95,8             | 98,4  |
| 2015                        | 114     | -0,31                      | +0,76                     | +5,14                  | 106,6              | 106,3            | 4748                       | +0,02                     | -0,02                  | +0,09              | 99,6             | 100,2 |
| 2016                        | 107     | -0,30                      | +0,80                     | +7,01                  | 108,0              | 108,2            | 5091                       | -0,21                     | +0,33                  | +0,07              | 101,8            | 102,0 |
| 2017                        | 86      | +0,00                      | +0,78                     | +7,06                  | 107,6              | 108,9            | 5977                       | -0,20                     | +0,60                  | +1,81              | 104,3            | 103,5 |
| 2018                        | 41      | -0,25                      | +1,05                     | +11,42                 | 111,5              | 113,8            | 6098                       | -0,20                     | +0,75                  | +4,49              | 106,5            | 107,1 |
| 2019                        | 33      | -0,03                      | +0,64                     | +13,74                 | 110,0              | 112,5            | 6147                       | -0,31                     | +0,92                  | +5,44              | 107,9            | 110,2 |
| 2020                        | 45      | -0,21                      | +1,19                     | +15,32                 | 114,2              | 115,5            | 5470                       | -0,22                     | +0,97                  | +9,38              | 110,2            | 113,2 |
| 2021                        | 12      | -0,01                      | +0,51                     | +16,97                 | 111,6              | 109,8            | 4446                       | -0,06                     | +1,10                  | +11,44             | 111,6            | 115,7 |
| 2022                        | 10      | +0,90                      | +1,27                     | +31,77                 | 116,6              | 113,0            | 2044                       | +0,02                     | +0,93                  | +13,86             | 112,0            | 113,5 |

## 61. ETSAÜ seemendusjaama kultide järglaste keskmised aretusväärtused

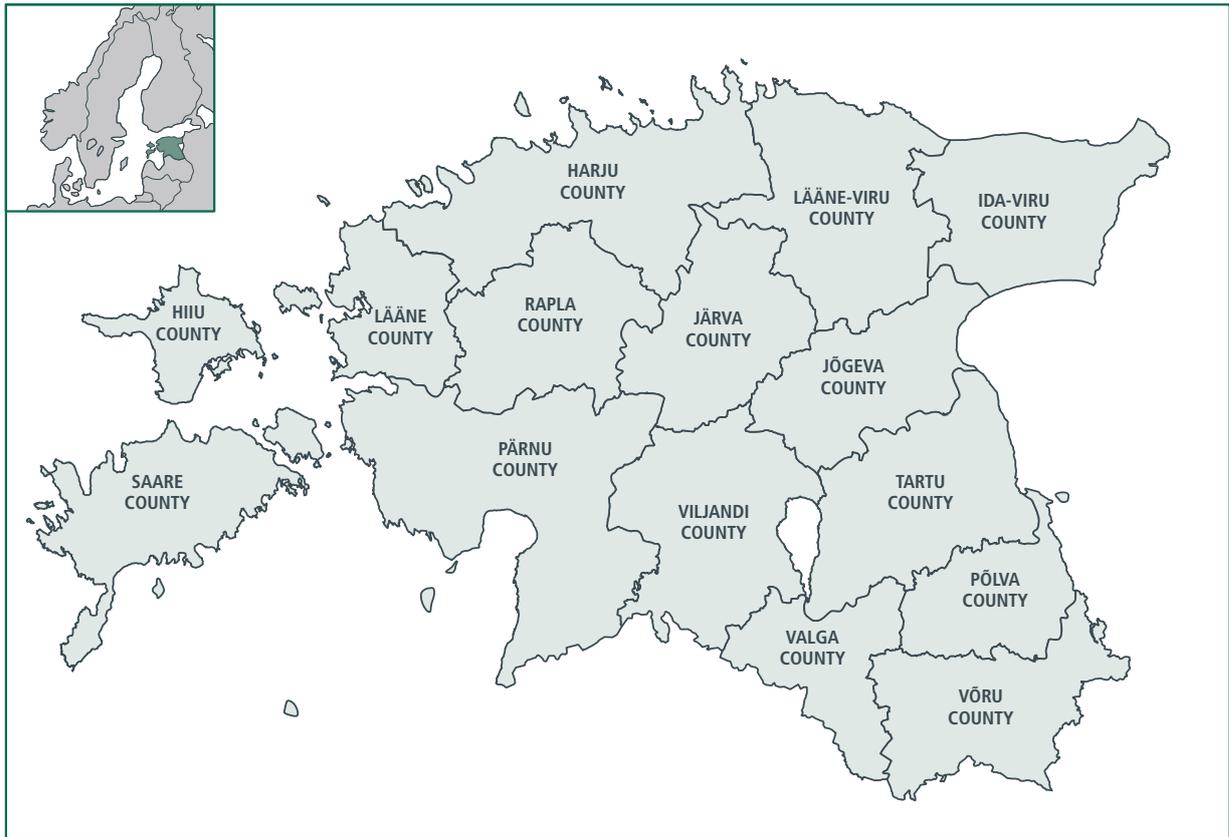
Avg. Estimated Breeding Values (EBV) of IS boars' progeny

| Kuldi sünniaasta<br>Year of birth of boar | Testitud järglaste arv<br>No. of tested progeny | Seljapeki paksuse AV<br>Backfat EBV<br>mm | Lihassilma AV<br>Muscle depth EBV<br>mm | Juurdekasvu AV<br>Daily gain EBV<br>g | Jõudluse SAV<br>Performance RBV | Viljakuse SAV<br>Fertility RBV |
|---|---|---|---|---------------------------------------|---------------------------------|--------------------------------|
| 2013                                      | 4973  | +0,07                                     | -0,21                                   | +0,72                                 | 99,0                            | 99,0                           |
| 2014                                      | 2920  | -0,30                                     | +0,57                                   | -1,05                                 | 102,8                           | 101,2                          |
| 2015                                      | 2231  | -0,42                                     | +0,47                                   | +1,18                                 | 103,5                           | 101,8                          |
| 2016                                      | 4390  | -0,40                                     | +0,73                                   | +3,26                                 | 106,1                           | 105,9                          |
| 2017                                      | 4590  | -0,40                                     | +0,94                                   | +5,00                                 | 108,1                           | 110,2                          |
| 2018                                      | 4135  | -0,29                                     | +0,88                                   | +8,84                                 | 109,7                           | 112,6                          |
| 2019                                      | 4267  | -0,10                                     | +1,10                                   | +11,19                                | 111,6                           | 116,0                          |
| 2020                                      | 2730  | -0,07                                     | +1,22                                   | +14,92                                | 114,1                           | 116,3                          |
| 2021                                      | 449   | +0,03                                     | +0,58                                   | +16,67                                | 111,8                           | 107,5                          |

## 62. Põhikarja sigade arv tõugude viisi maakondades 31.12.2022

No. of pigs of different breeds in counties 31.12.2022

| Maakond<br>County | Tõug Breed                    |                           |                        |                 |                                |  | kokku<br>total |
|-------------------|-------------------------------|---------------------------|------------------------|-----------------|--------------------------------|--|----------------|
|                   | eesti suur valge<br>Yorkshire | eesti maatõug<br>Landrace | ristandid<br>crossbred | djurok<br>Duroc | tõug teadmata<br>breed unknown |  |                |
| Harju             | 346                           | 130                       | 795                    |                 | 7                              |  | 1278           |
| Ida-Viru          | 7                             | 6                         | 184                    | 8               | 5                              |  | 210            |
| Jõgeva            |                               | 52                        | 236                    |                 |                                |  | 288            |
| Järva             | 111                           | 44                        | 439                    | 33              |                                |  | 627            |
| Lääne             | 184                           | 1                         | 301                    | 8               |                                |  | 494            |
| Lääne-Viru        | 653                           | 340                       | 2005                   | 3               |                                |  | 3001           |
| Rapla             |                               | 22                        | 277                    |                 |                                |  | 299            |
| Saare             |                               | 287                       | 1261                   | 1               | 362                            |  | 1911           |
| Tartu             | 86                            | 12                        | 336                    | 33              |                                |  | 467            |
| Viljandi          | 104                           |                           | 221                    |                 |                                |  | 325            |
| Võru              | 217                           |                           | 3                      |                 | 8                              |  | 228            |
| Kokku Total       | 1708                          | 894                       | 6058                   | 86              | 382                            |  | 9128           |



The Republic of Estonia lies on the eastern shores of the Baltic Sea. Estonia is located between 57°30' and 59°49' latitude, and 21°46' and 28°13' longitude. The distance from north to south is about 240 km and the distance from east to west is about 350 km.

The population of Estonia is 1,3 million people.

With a total land area of 45,227 km<sup>2</sup> it is the smallest of the three Baltic States. Estonia shares borders with Russia to the east and with Latvia to the south. In the north it has a coastline on the Gulf of Finland and in the west it is bounded by the Gulf of Riga and yields the Baltic Sea. Two of its largest islands, Saaremaa and Hiiumaa lie off the western coast of Estonia in the Baltic Sea.

Estonia is mainly a lowland country. On average, the land reaches only 50 meters above sea level. The highest point is Suur Munamägi (Great Egg Hill) (318 m above sea level) in the southeast. 420 rivers and more than 1000 lakes cover the landscape. The largest lake, Lake Peipsi, on the eastern border, is the fifth largest lake in Europe. It covers an area of 3555 km<sup>2</sup>.

Agricultural lands (grasslands, meadows, and natural pastures) cover twenty five percent of the country. Forests account for 44% of the landmass. Mires (fens, bogs and swamps) cover an additional 20% of the territory and 6% is occupied by inner natural reservoirs. Principal soil types: sandy soil, clay, peaty soil.

The climate is determined by Estonia's location in the north-western part of the Eurasian continent, in the vicinity of the North Atlantic. The closeness of the Baltic Sea has a strong influence on local climatic differences, especially in coastal regions. Permanent snow cover becomes established in the south-eastern uplands at the beginning of December, at the earliest, and by the end of March, the snow can be half a meter in depth. In January there is snow throughout the land and it usually melts at the end of March. In mild winters, there is often no lasting snow cover. In Estonia south-western and western winds prevail. Whirlwinds and heavy storms are rare.

The vegetation period (mean air t° over 5°C) lasts in most of Estonia 170–185 days, active growing period (mean air t° over 10°C) lasts in most of Estonia for 120–130 days, the aggregate mean temperature at that period is about 1700°.