

Singlestep type traits

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The aim of this report is to document the genetic trend for single-step for type traits in the Nordic cattle evaluation. The breeding values are standardized and compared with traditional EBVs.

It is a model with 1. -3. Lactation but only results for 1. Lactation is shown

Explanations:

- f1 = full 1. lactation
- r1= reduc 1. lactation
- e1= traditional EBV 1. lactation

Explanation for correlations:

- r1_bv = correlation between full 1. lactation and reduc 1. lactation
- e1_bv = correlation between full 1. lactation and EBV 1 lactation
- two = correlation between full 1. lactation and two-step

For females only females with phenotypes are shown.

For bulls only domestic AI bulls are shown

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Type traits

- | | |
|----|---------------------------|
| 1 | Stature |
| 2 | Body depth |
| 3 | Chest width |
| 4 | Dairy form |
| 5 | top line |
| 6 | Rump width |
| 7 | Rump angle |
| 9 | Roar legs, side view |
| 10 | Roar legs, back rear view |
| 11 | Hock quality |
| 12 | Bone quality |
| 13 | Foot angle |
| 16 | Fore udder attachment |
| 17 | Rear udder height |
| 18 | Rear udder width |
| 19 | Udder cleft support |

20	Udder depth
21	Teat length
22	Teat thickness
23	Teat placement front
24	Teat placement Back
25	Udder balance

Results and discussion

Below, you find a summary of the results from cows and bulls for each of the three breeds. For many of the type traits the singlestep full is higher than the EBV's and often the singlestep reduced is even higher than the singlestep full. The magnitude of the difference is for several traits only 3-5 indices but for some traits the difference is as big as 10 indices or more. The inflation problem is bigger for bulls than cows.

Study of genetic trend and correlations based on singlestep evaluation of May data are shown in appendix 1. Here are some comments:

HOL cows with records:

For some traits the genetic trend for singlestep full is higher than the genetic trend for EBV's for the latest birth years. Furthermore, there is for some traits indication of inflation, where the singlestep reduced is higher than the singlestep full for the latest birth years. Examples are BV1, BV10, BV11, BV16, BV17, BV18, BV20 and BV25. For other traits the genetic trend is at similar level for singlestep and for EBV's.

Holstein domestic AI bulls:

There seems to be challenges with inflation for BV1, BV4, BV10, BV11, BV12, BV13, **BV16, BV17, BV18, BV20**. For BV2 and BV3 the singlestep full and singlestep reduced have lower genetic trend than the EBV's for the latest birth years.

The inflation is bigger for AI bulls than for cows with records.

The legarra reverter regression gives b1 values, which is lower than 0.95 for BV3, **BV4**, BV13, BV23 and BV24. The interbull test gives b1 values, which is lower than 0.90 for BV2, BV3, **BV4**, BV13, BV18, BV19, BV20, BV23.

For RDC cows with records:

The singlestep full and singlestep reduced have higher genetic trend than EBV's in the latest birth years for BV1, BV4, BV10, BV11, **BV16, BV17, BV18, BV19**, BV20, BV23, BV24, BV25.

For RDC domestic AI bulls:

The singlestep full and singlestep reduced have higher genetic trend than EBV's in the latest birth years for BV1, BV4, BV10, BV11, BV12, **BV16, BV17, BV18, BV19, BV20, BV23, BV24**, BV25

The singlestep full and singlestep reduced has the same genetic trend as EBV's but higher than twostep genetic trend for **BV2** and BV3

The Legarra Reverter regression b1 value is lower than 0.95 for **BV4**, BV11, BV13, BV16, BV18, BV20.

The interbull test b1 value is lower than 0.90 for BV1, **BV4**, BV6, BV11, BV13, BV16, BV18, BV19, BV20, BV24.

For Jersey cows with records:

The singlestep full and singlestep reduced have higher genetic trend than EBV's in the latest birth years for BV1, BV4, BV13, BV16, BV17, BV18, BV19, BV20.

The singlestep genetic trend are lower than EBV for the latest birth years for BV9.

For Jersey domestic AI bulls:

The singlestep full and singlestep reduced have higher genetic trend than EBV's in the latest birth years for **BV1**, BV4, BV5, BV10, BV13, **BV16**, **BV17**, **BV18**, BV19, **BV20**, BV25.

The singlestep full and singlestep reduced has the same genetic trend as EBV's but higher than twostep genetic trend for BV2.

The genetic trend for twostep is much higher than singlestep, which is higher than EBV for BV6, BV23 and BV24.

The Legarra Reverter regression b1 value is lower than 0.95 for BV1, BV4, BV21, and BV22. The b1 value is higher than 1.10 for BV11

The interbull test b1 value is lower than 0.90 for BV1, BV17, BV18, BV20. The b1 values is higher than 1.10 for **BV10**, **BV11**, BV22.

Results of study of stability is shown in appendix 2.

For Holstein singlestep with November data are compared with singlestep with May data.

For RDC and Jersey singlestep with August data are compared with singlestep with May data.

The correlation between singlestep new (November or August) and singlestep old (May) are close to 1 for cows with records and domestic AI bulls born from 2010 to 2020.

The correlation between singlestep full and singlestep reduced are close to 1 for older birth classes but then reduces at the youngest birth classes. The level of correlations are similar for nov.full_nov.reduc or aug.full_aug.reduc and for may.full_may.reduc.

The mean GEBV is at similar level for singlestep full November or August and for singlestep full May. Furthermore, the mean GEBV is at similar level for singlestep reduced November or August and for singlestep reduced May.

Therefore it can be concluded that the stability of singlestep is high, and the problems with inflation described in appendix 1 is still existing in the new singlestep evaluation.

Below you find a more detailed description of results in appendix 2. Only results which deviates from the expectation of same level of genetic trend are discussed below.

HOL cows with records:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV2, BV10, BV18.

The genetic trend for singlestep reduced is lower than for singlestep full for the latest birth years for BV9,

The genetic trend for the singlestep full and reduced for May is higher than singlestep full and reduced for November (also first birth classes) for BV16, BV17, BV20, BV23.

HOL domestic AI bulls:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV2, BV4, BV10, BV18, BV19, BV25

The genetic trend for singlestep reduced is lower than for singlestep full for the latest birth years for BV9

RDC cows with records:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV18, BV19

The genetic trend for singlestep reduced is lower than for singlestep full for the latest birth years for BV9

RDC domestic AI bulls:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV1, BV2, BV18, BV19

JER cows with records:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV10, BV13, BV19, BV25

JER domestic AI bulls:

The genetic trend for singlestep reduced is higher than for singlestep full for the latest birth years for BV10, BV19, BV25.

The genetic trend for singlestep reduced is lower than for singlestep full for the latest birth years for BV5, BV6, BV11.

Final conclusions

There are some challenges with singlestep, where the latest birth classes have higher genetic trend for singlestep reduced than for singlestep full, which indicates inflation. This problem is more pronounced for bulls than for cows. The level of inflation is for some traits for some breed only 1-3 indices while for other traits it is severe at the magnitude of 10 or more indices. There is a tendency that it is often but not always BV16, BV17, BV18, BV19 and BV20 which is most problematic. The interbull validation test and the Legarra Reverter regression shows most problematic results for BV4.

The stability of singlestep is overall high, meaning that the genetic trend does not differ very much between evaluations when comparing May evaluation with either November or August.

The stability of singlestep is positive, but the inflation is problematic especially for some traits and some breeds and sex.

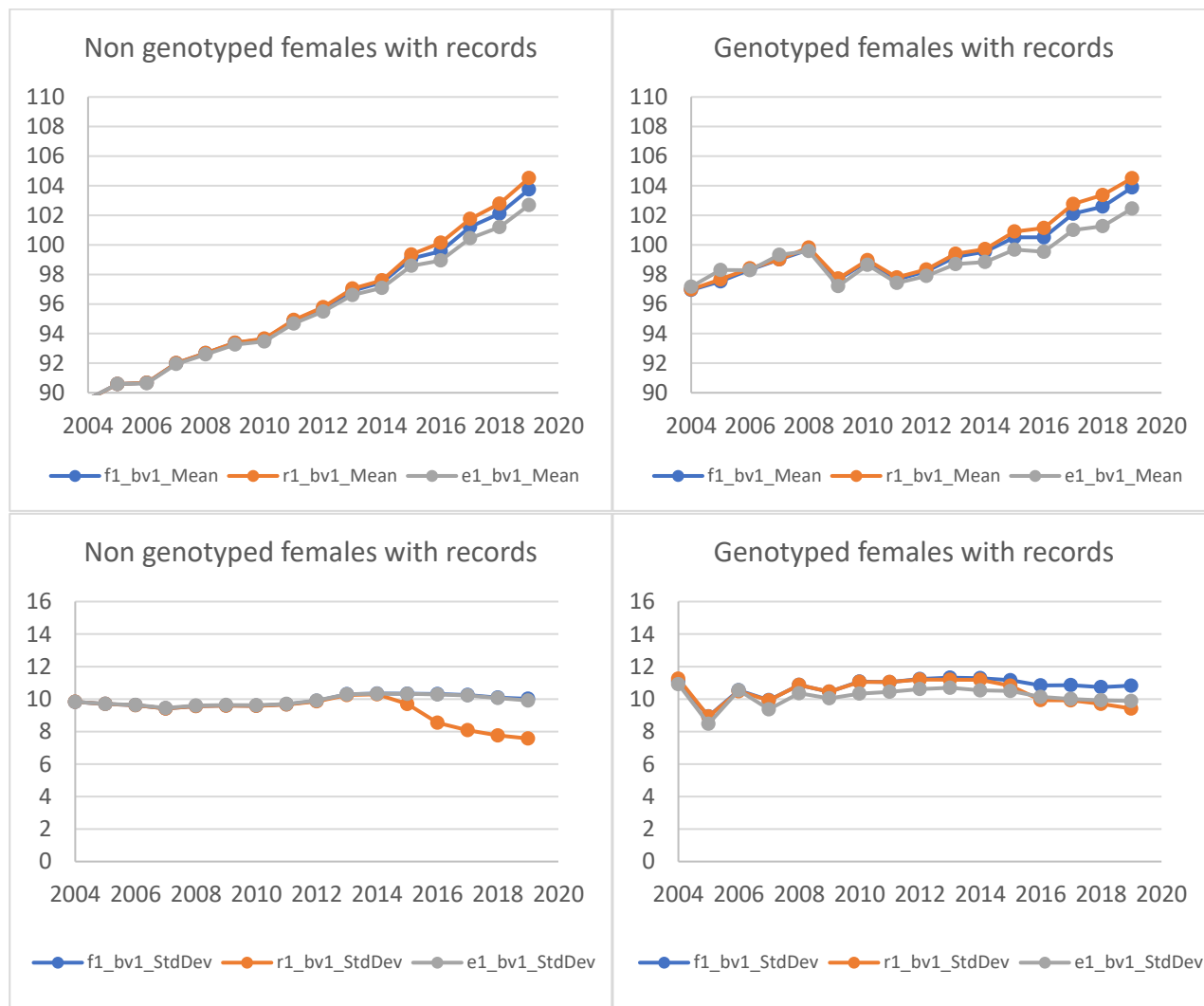
Appendix 1

Holstein

Cows

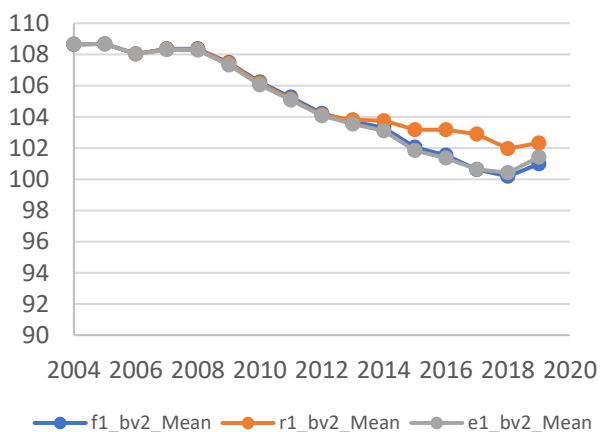
Trend (mean and SD)

bv1

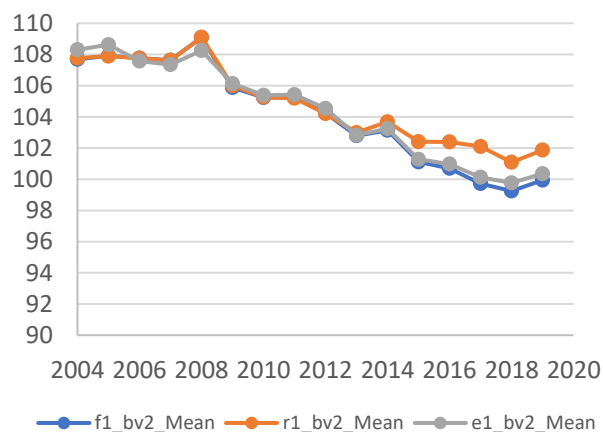


bv2

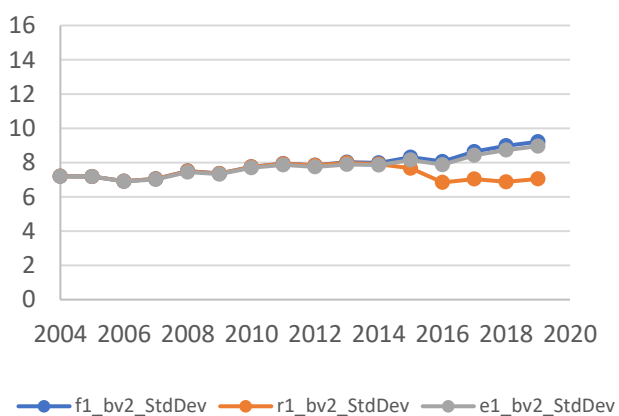
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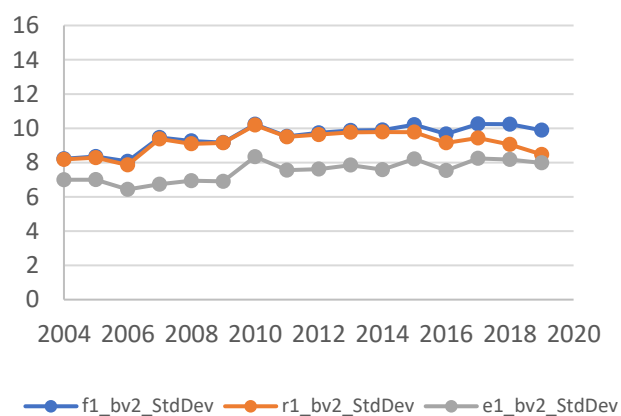
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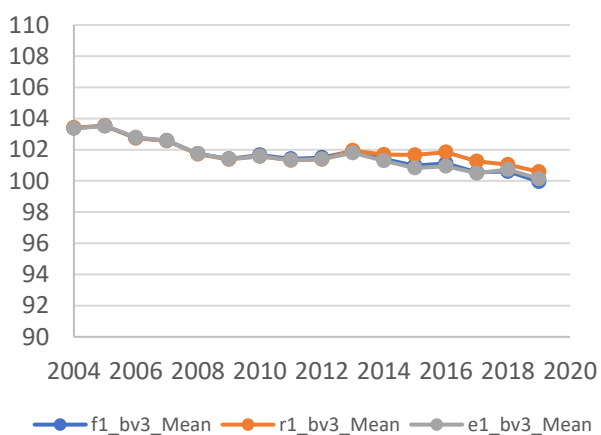


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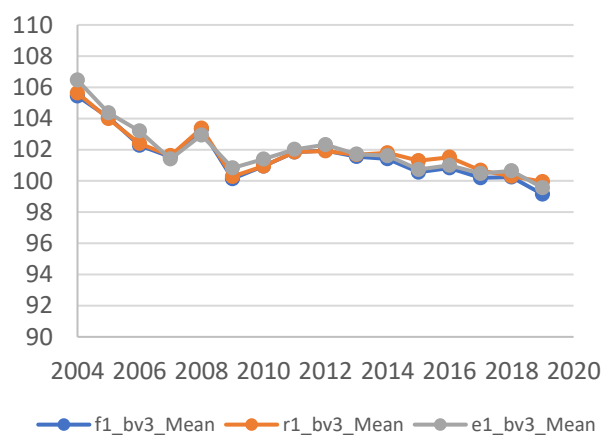


bv3

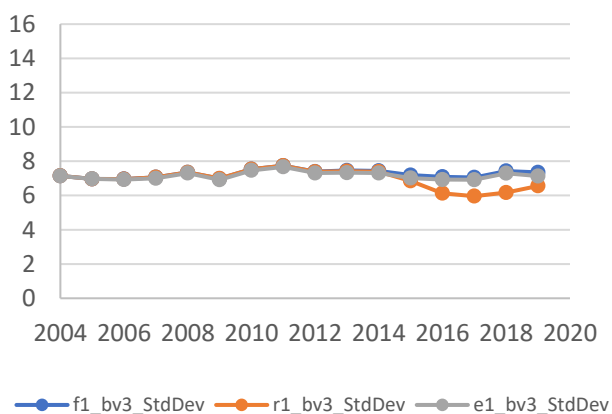
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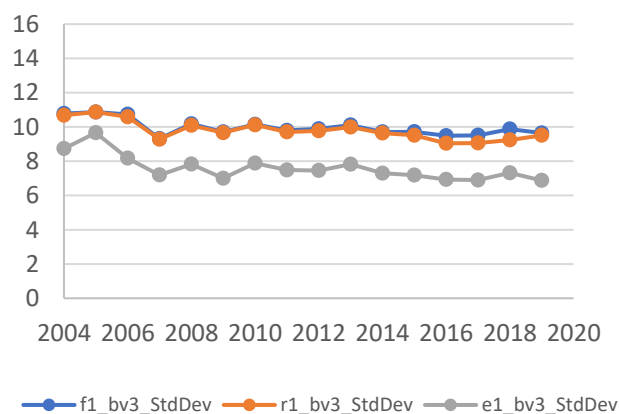
Genotyped females with records



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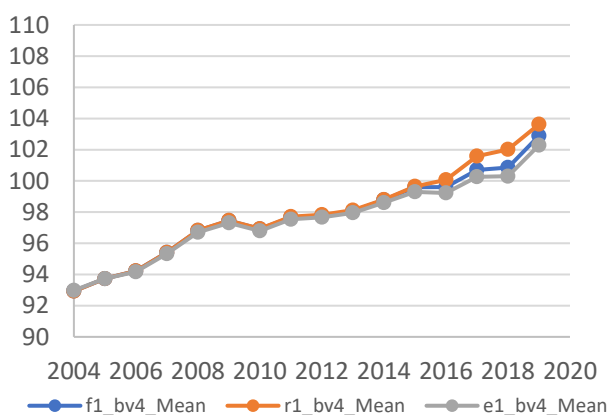


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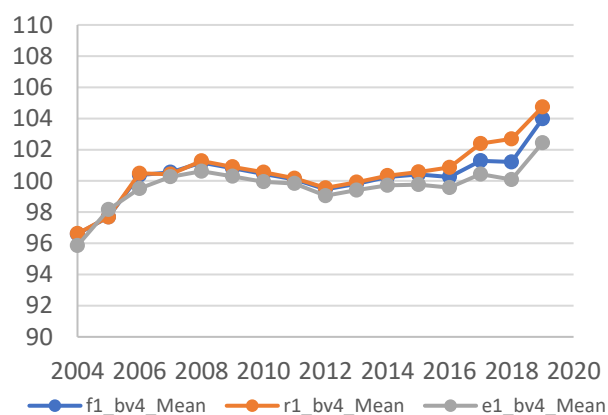


bv4

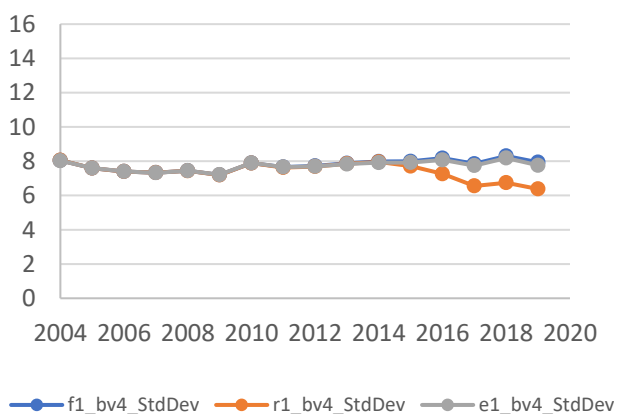
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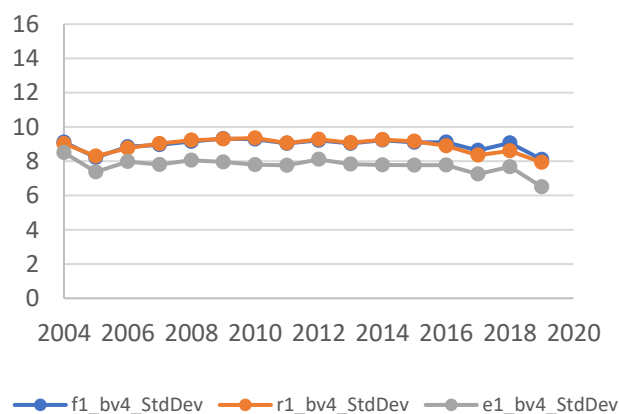
Genotyped females with records



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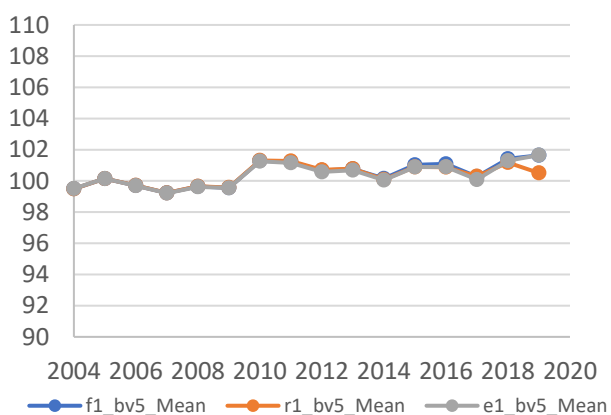


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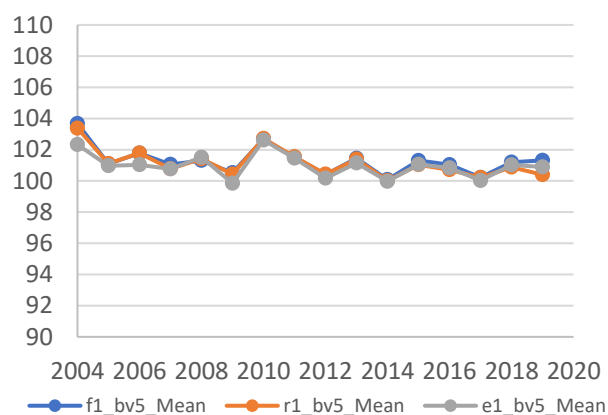


bv5

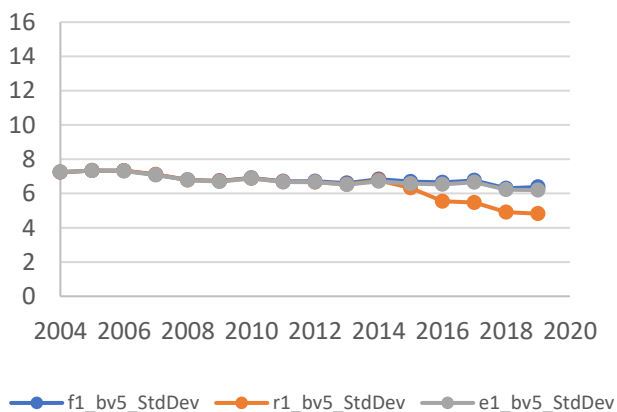
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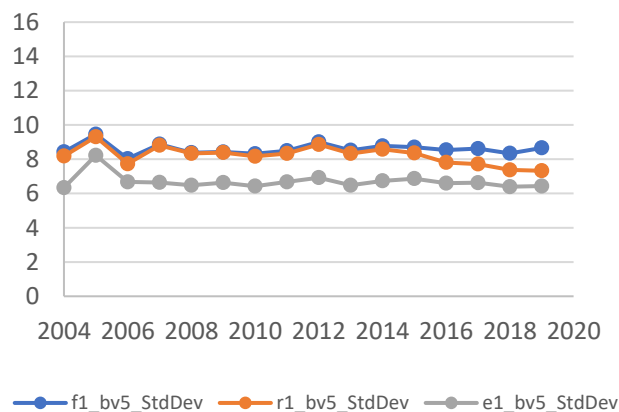
Genotyped females with records



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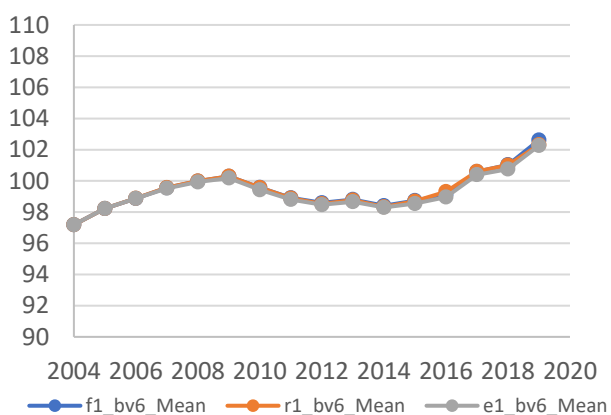


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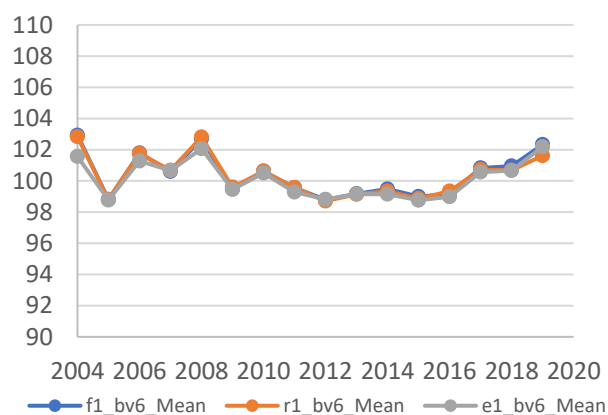


bv6

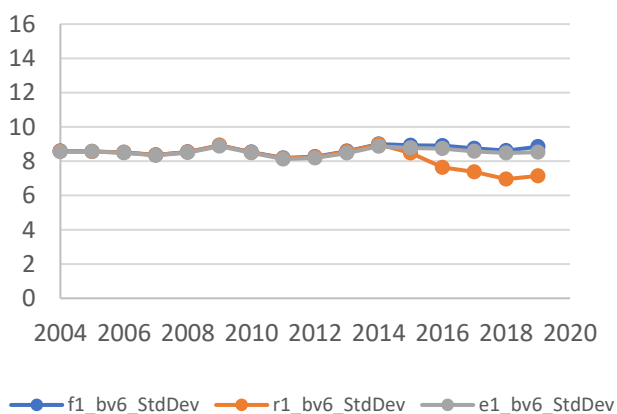
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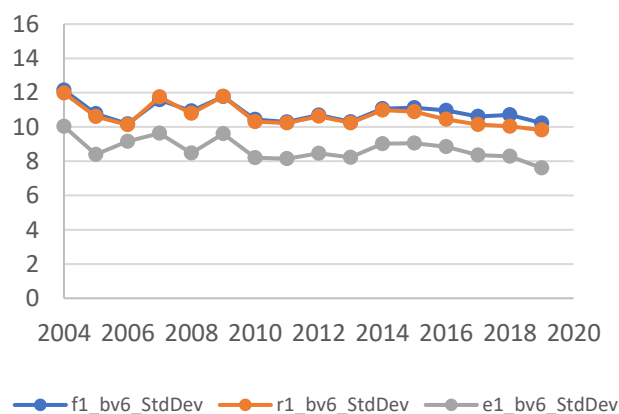
Genotyped females with records



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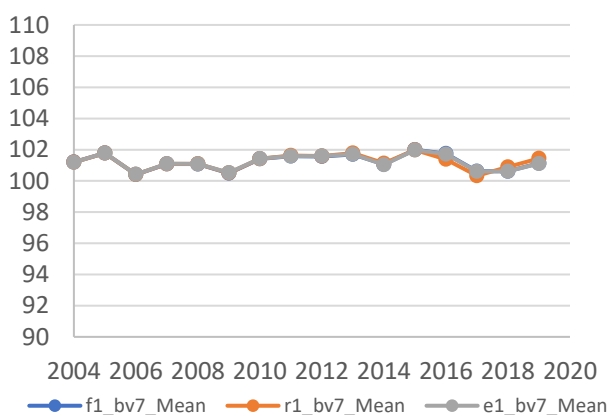


Genotyped females with records

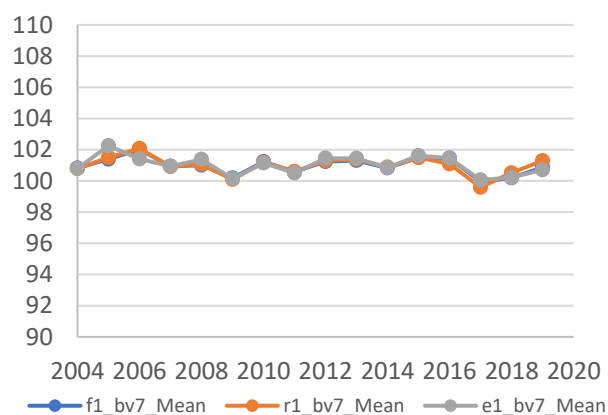


bv7

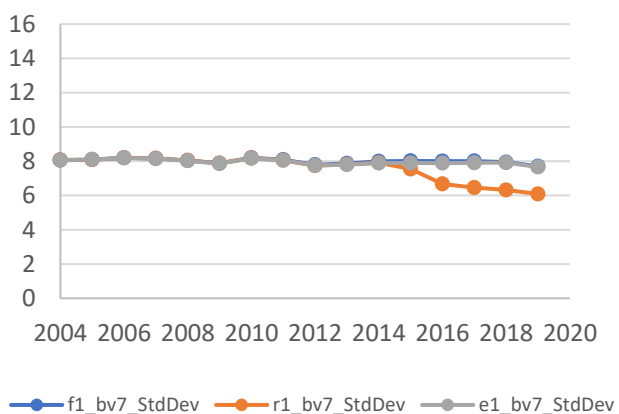
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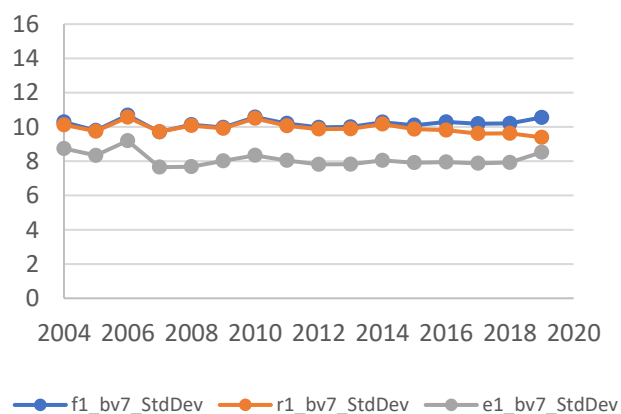
Genotyped females with records



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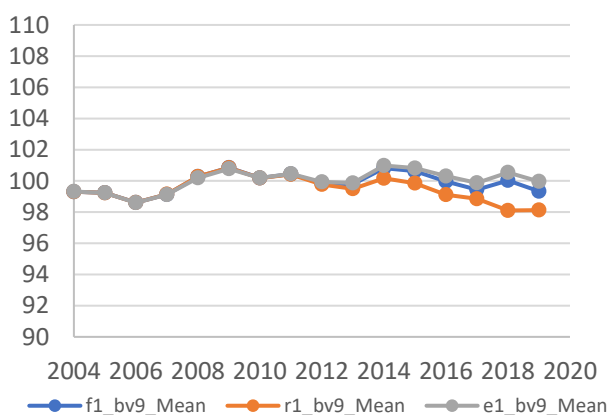


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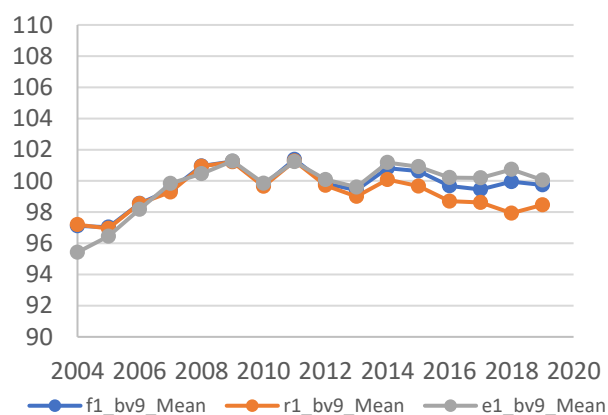


bv9

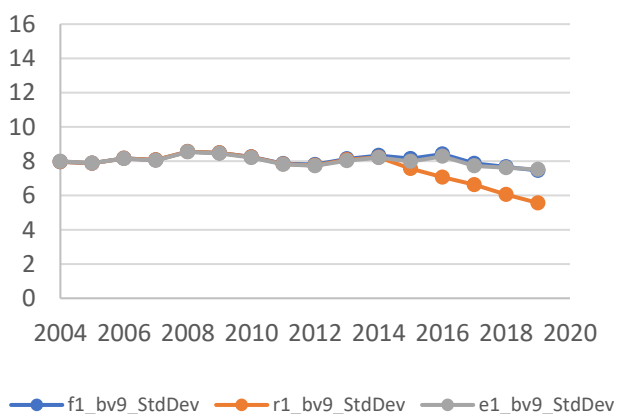
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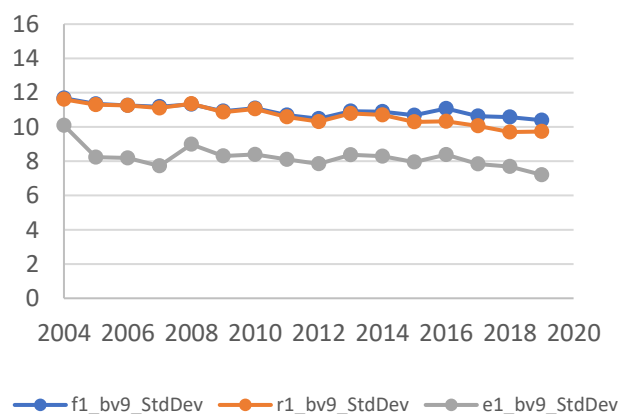
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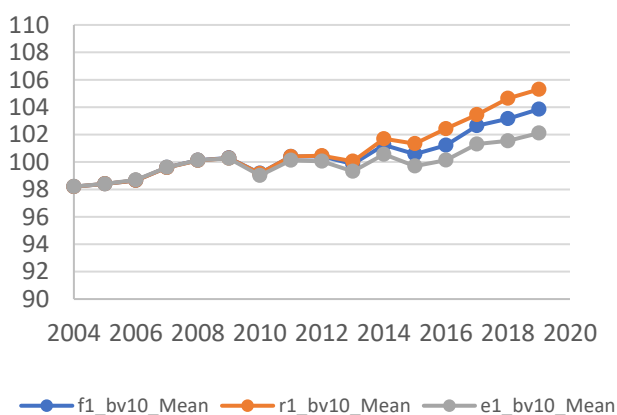


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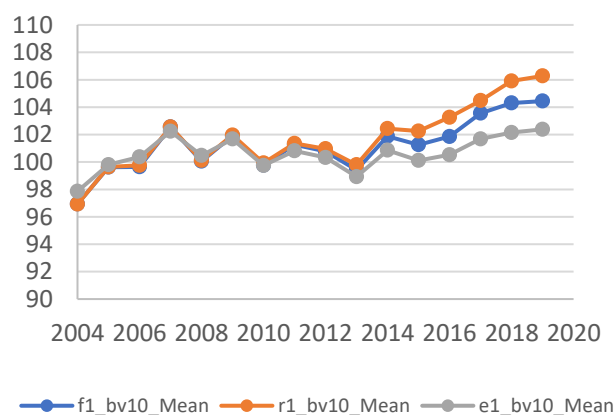


bv10

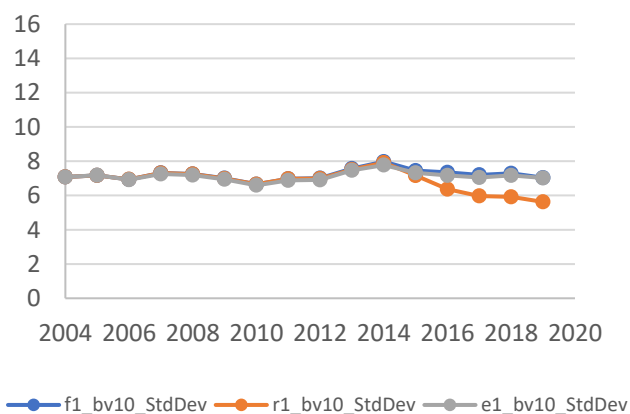
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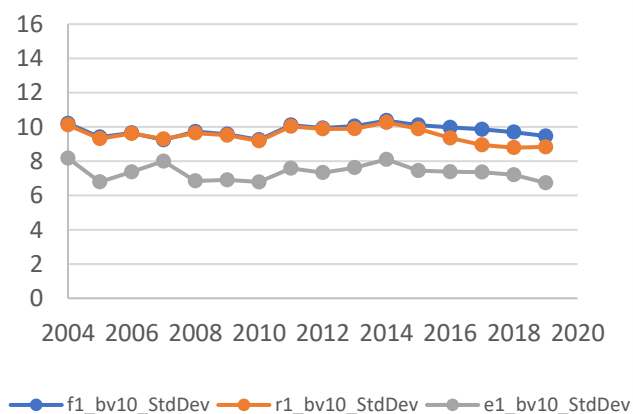
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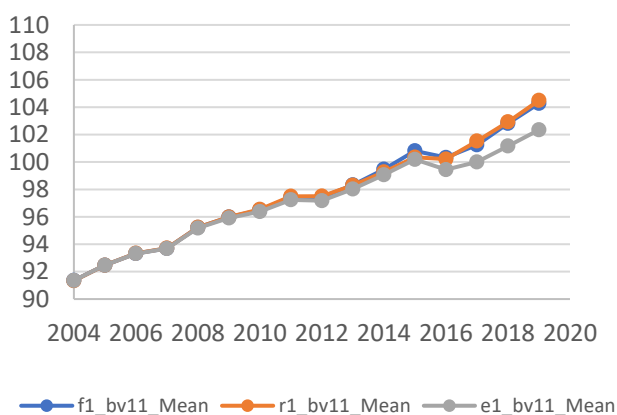


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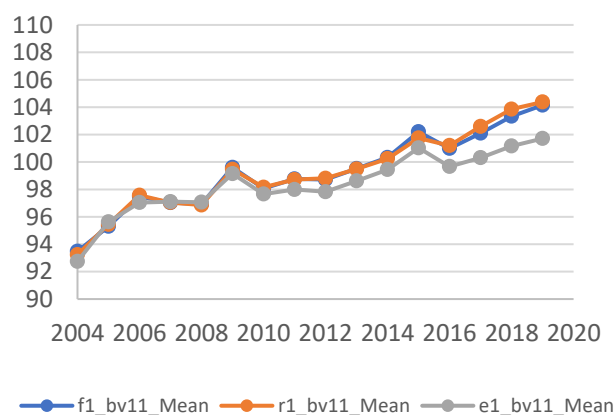


bv11

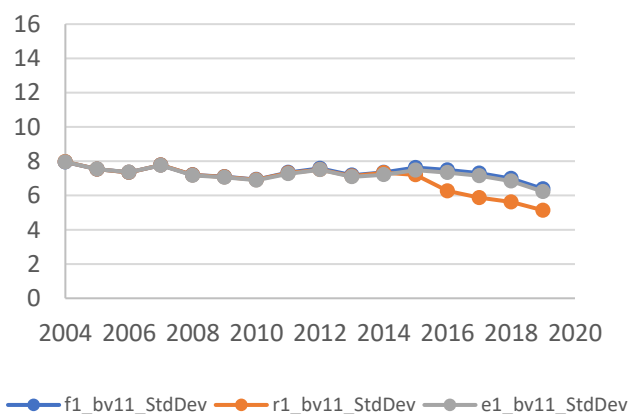
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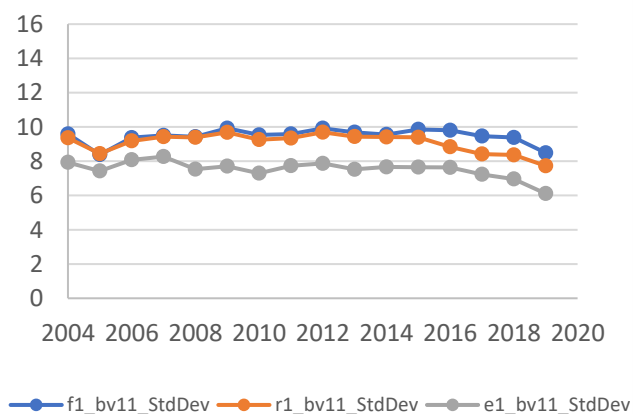
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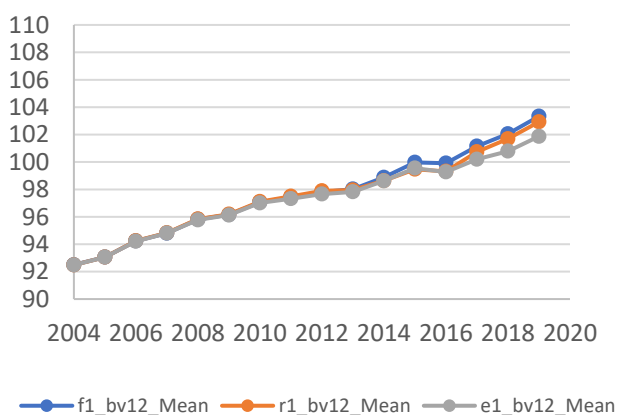


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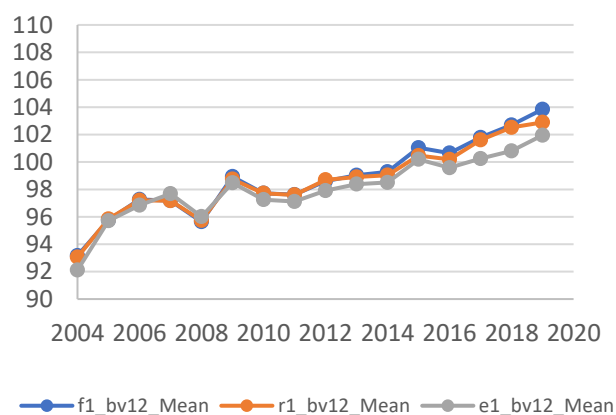


bv12

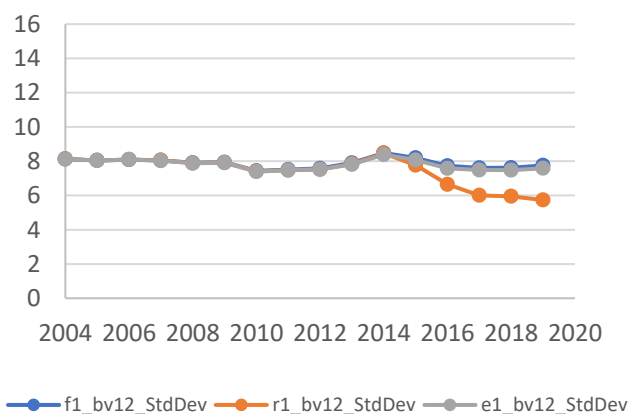
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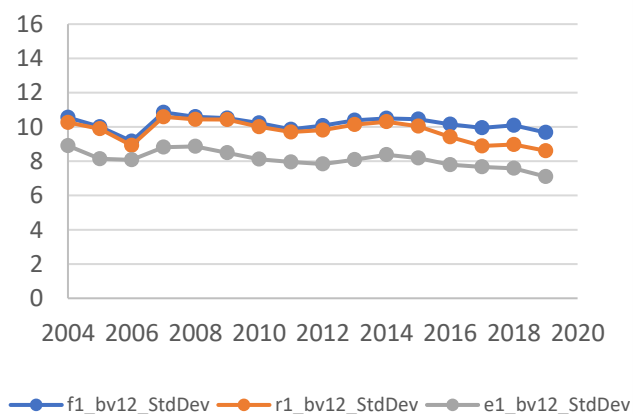
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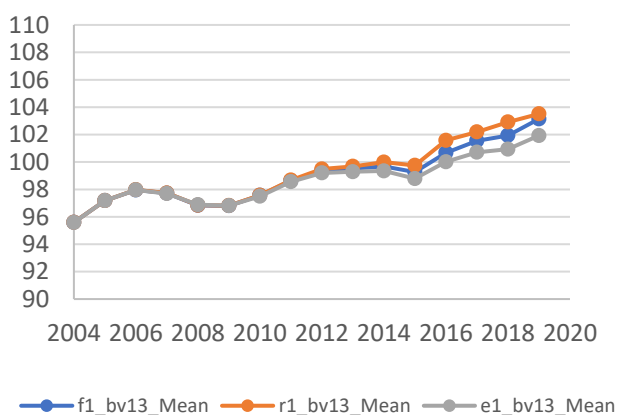


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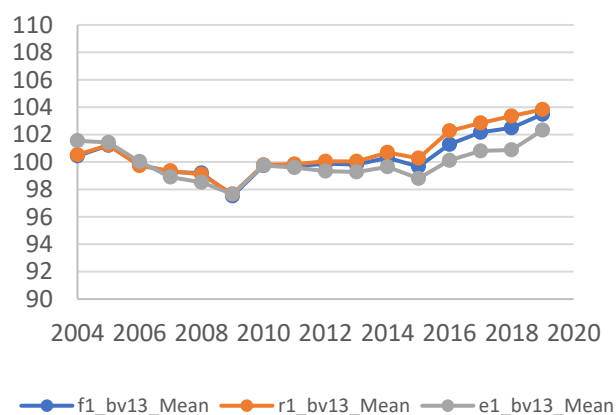


bv13

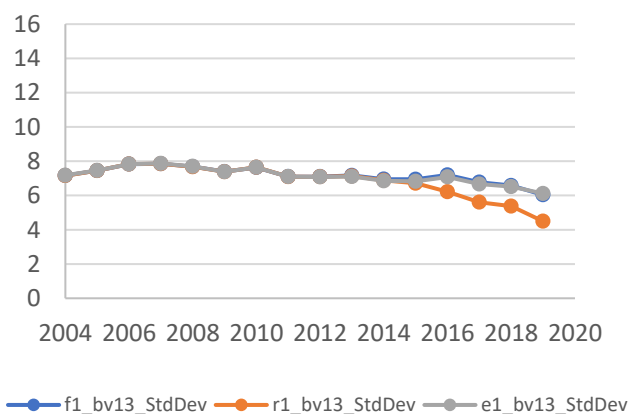
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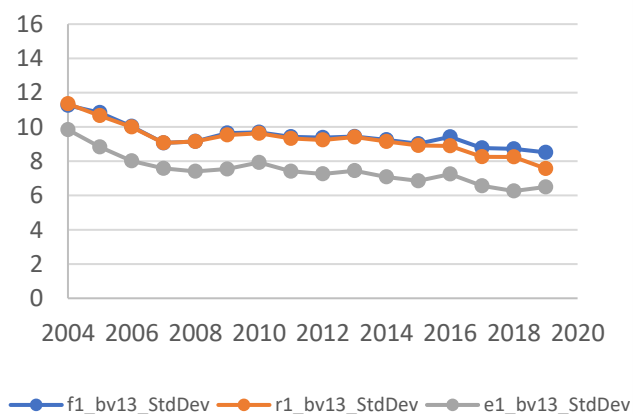
Genotyped females with records



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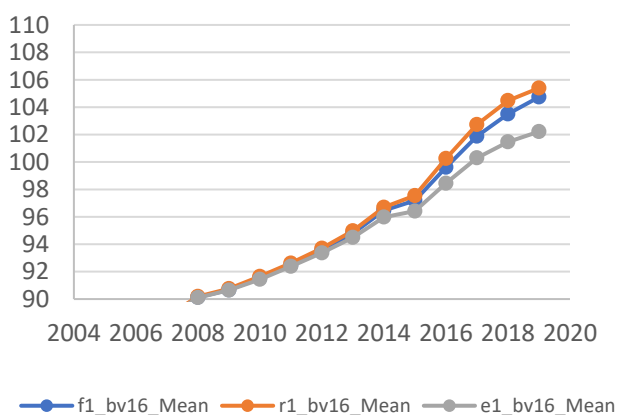


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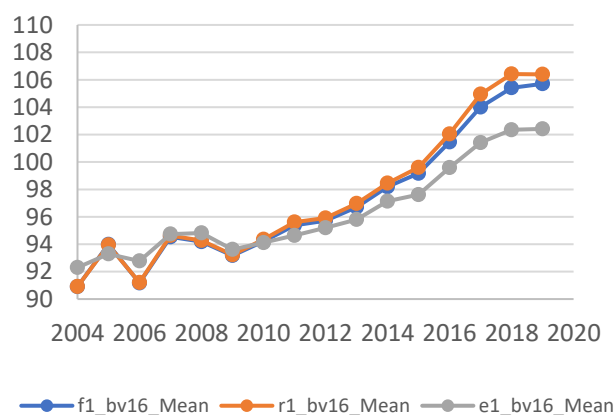


bv16

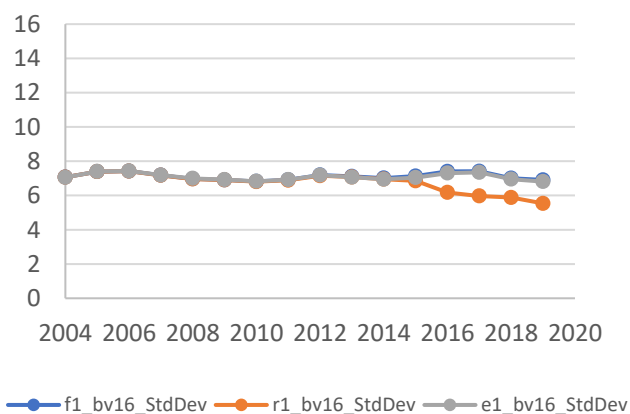
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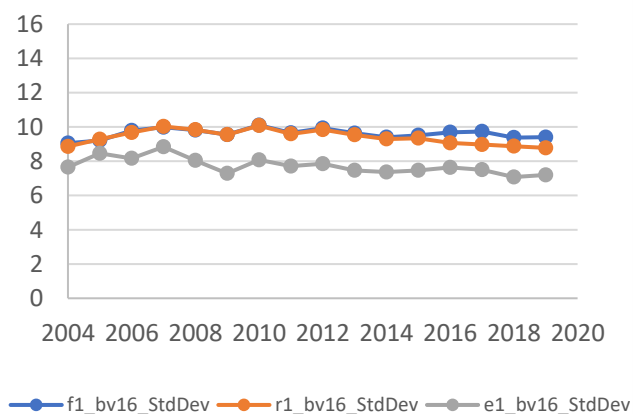
Genotyped females with records



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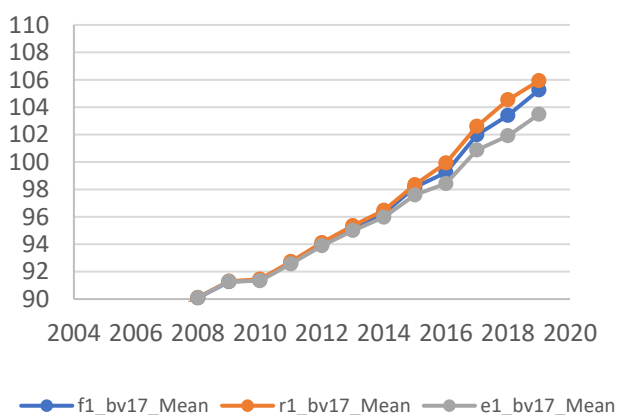


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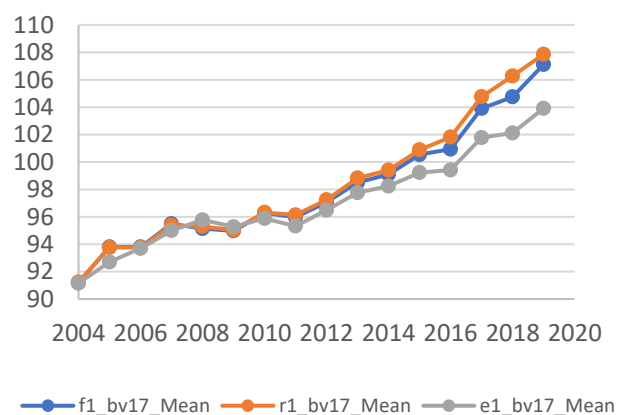


bv17

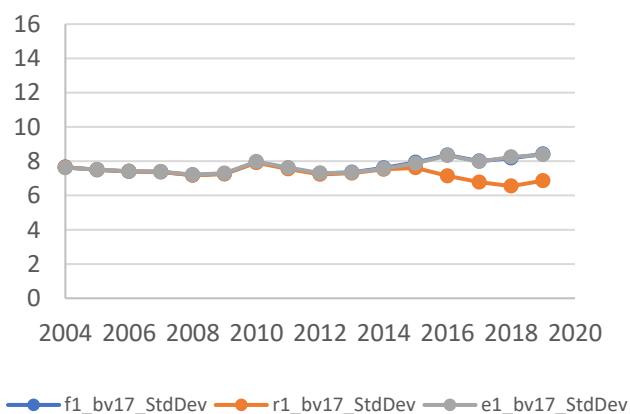
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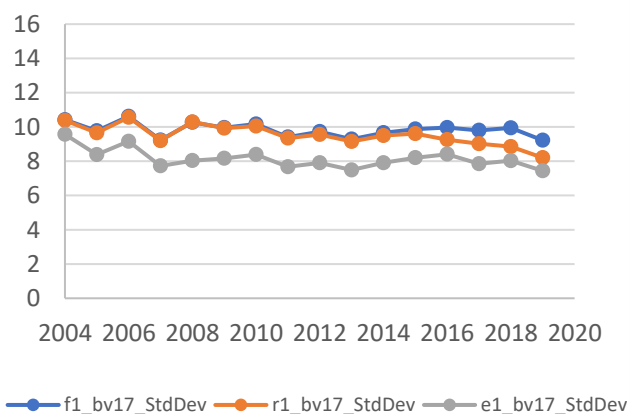
Genotyped females with records



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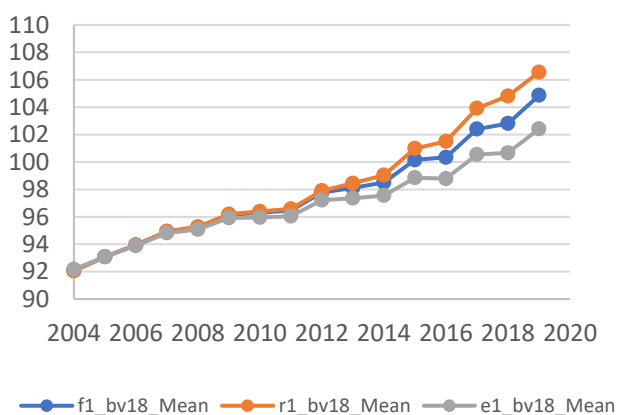


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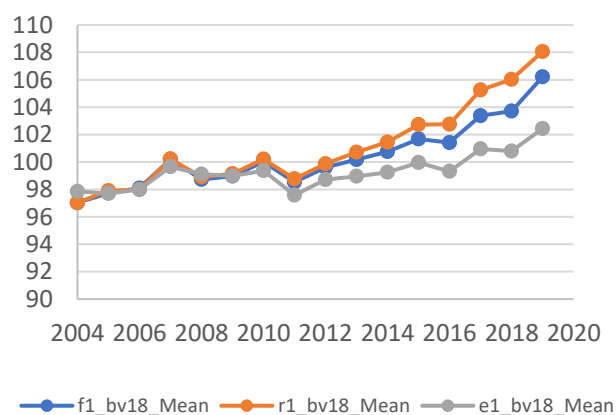


bv18

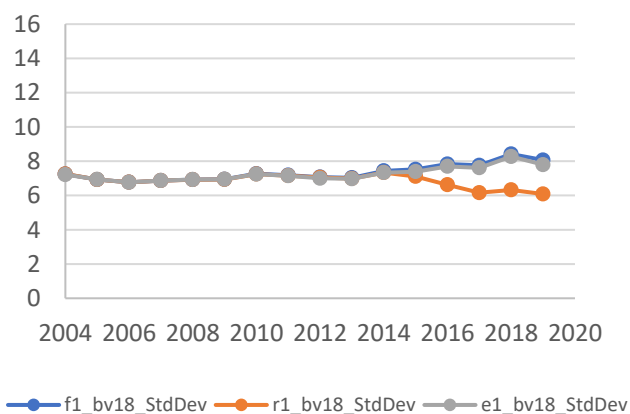
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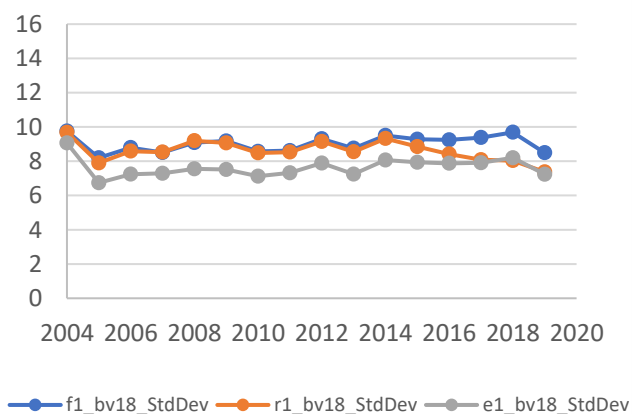
Genotyped females with records



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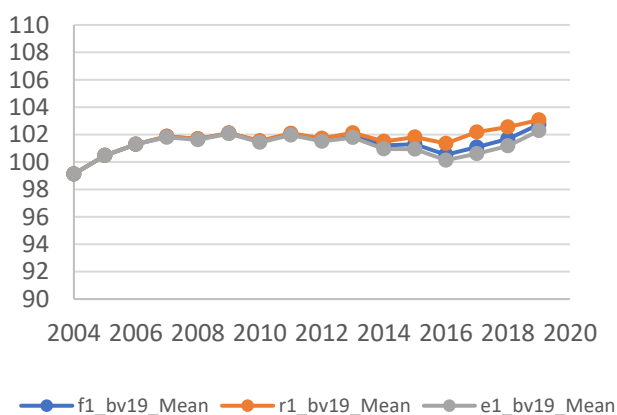


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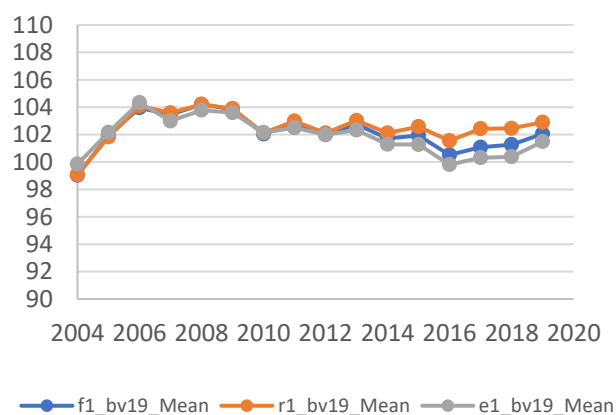


bv19

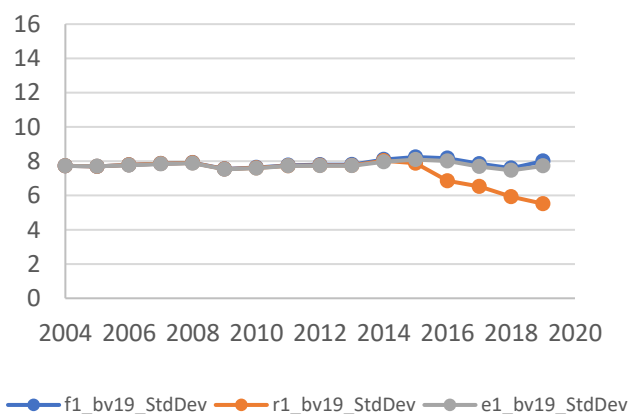
Non genotyped females with records



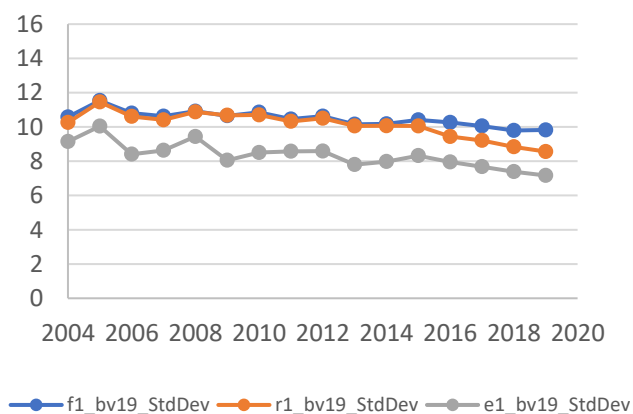
Genotyped females with records



Non genotyped females with records

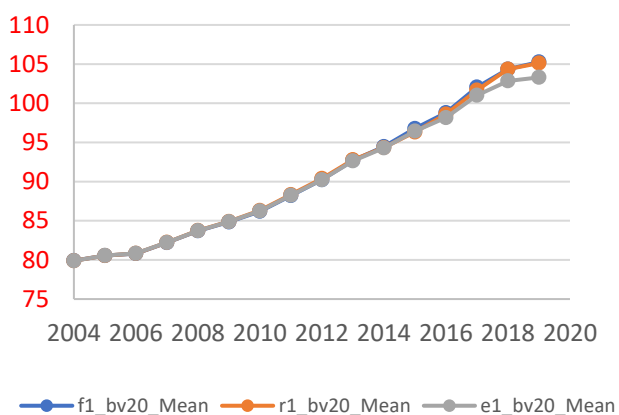


Genotyped females with records

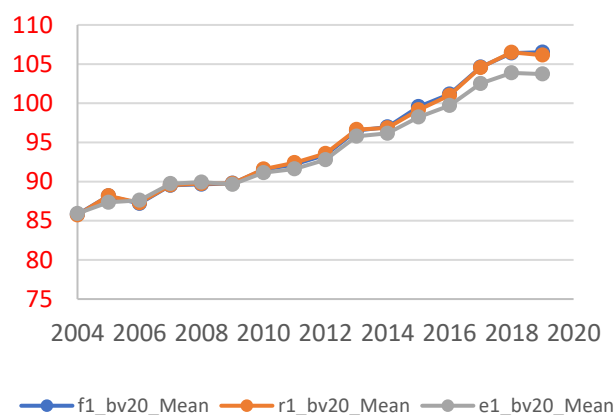


bv20

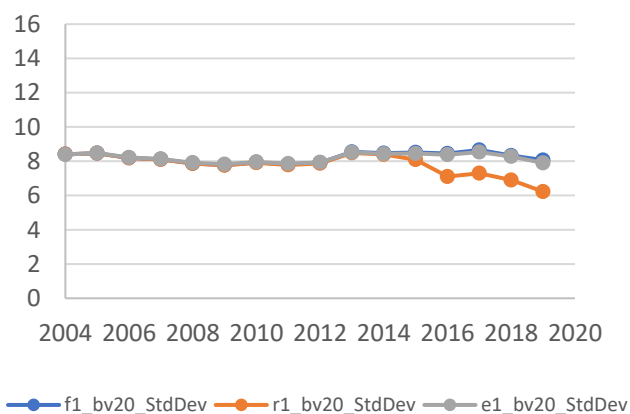
Non genotyped females with records



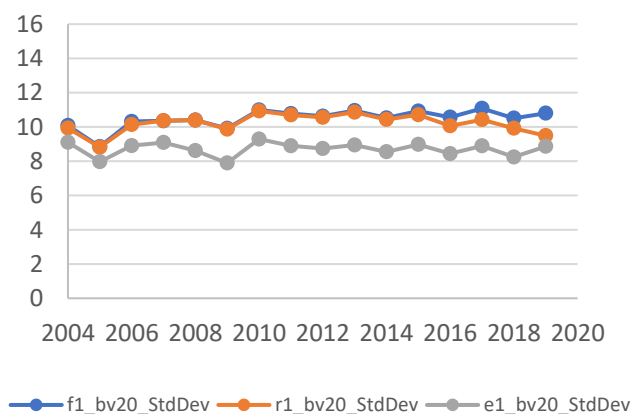
Genotyped females with records



Non genotyped females with records

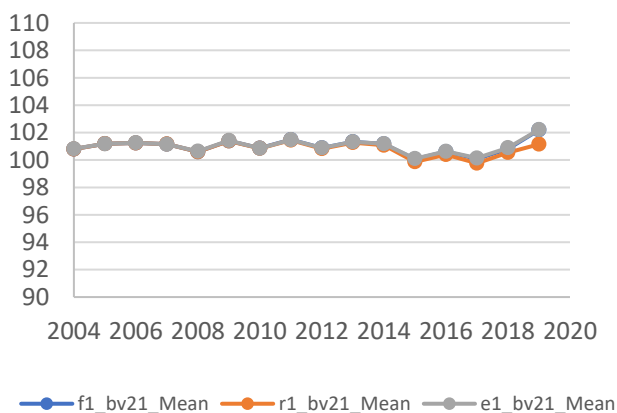


Genotyped females with records

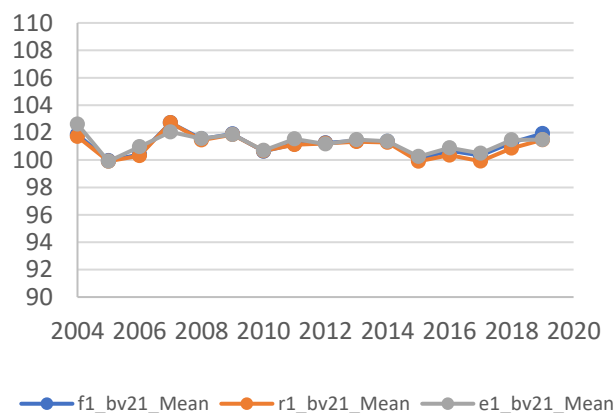


bv21

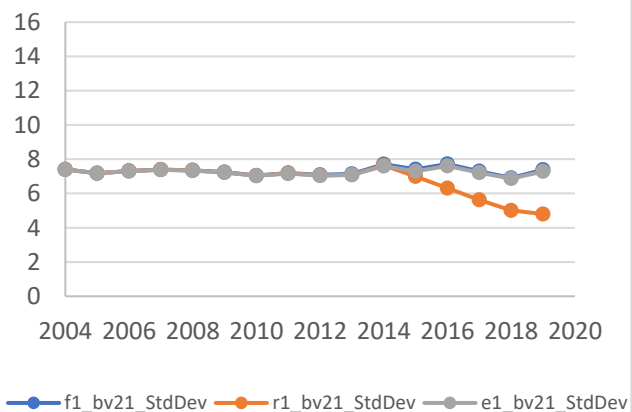
Non genotyped females with records



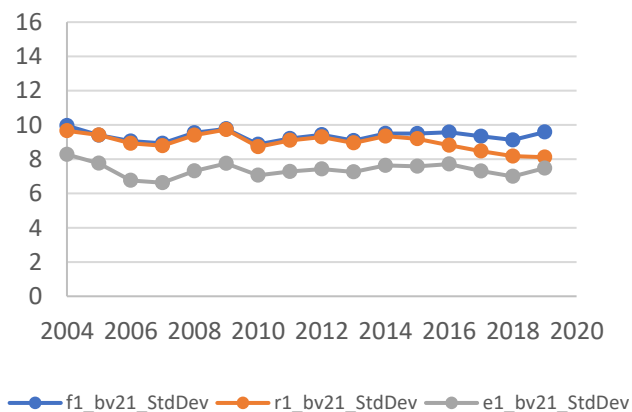
Genotyped females with records



Non genotyped females with records

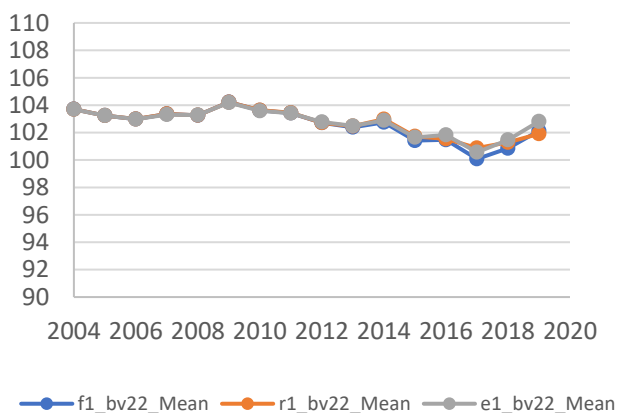


Genotyped females with records

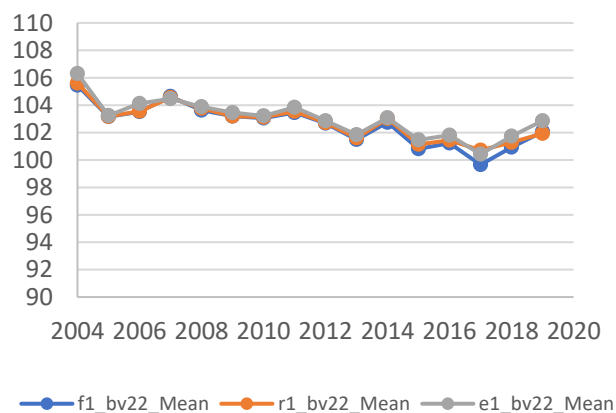


bv22

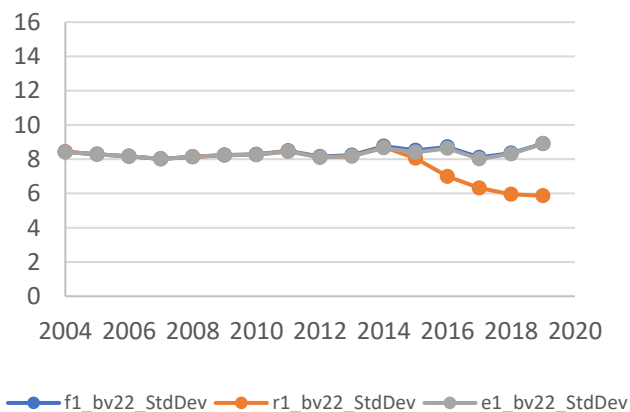
Non genotyped females with records



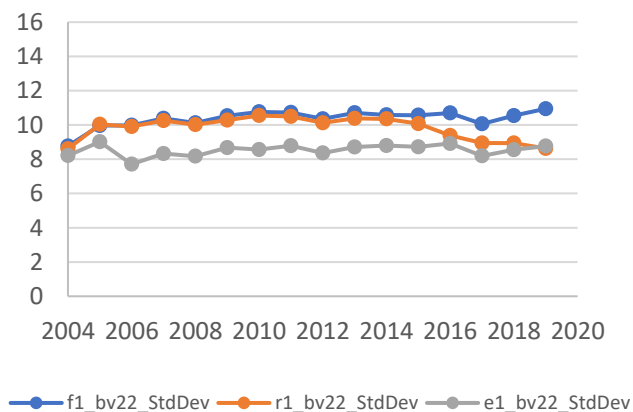
Genotyped females with records



Non genotyped females with records

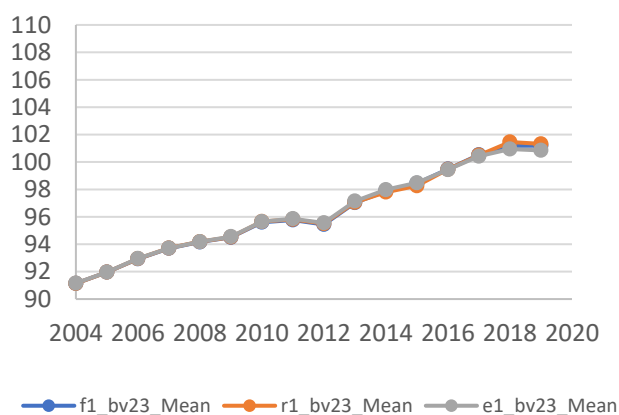


Genotyped females with records

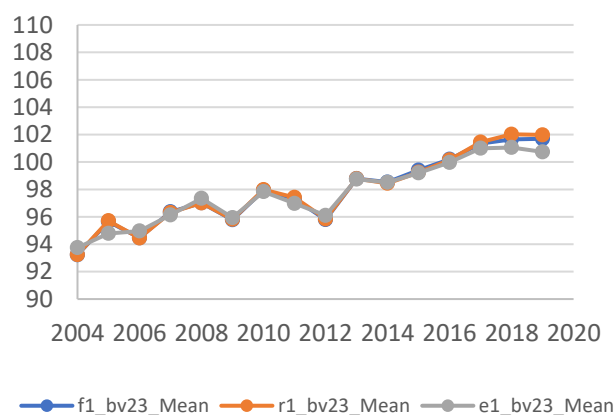


bv23

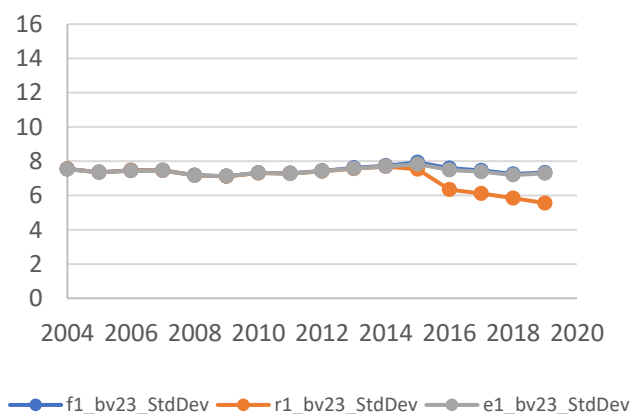
Non genotyped females with records



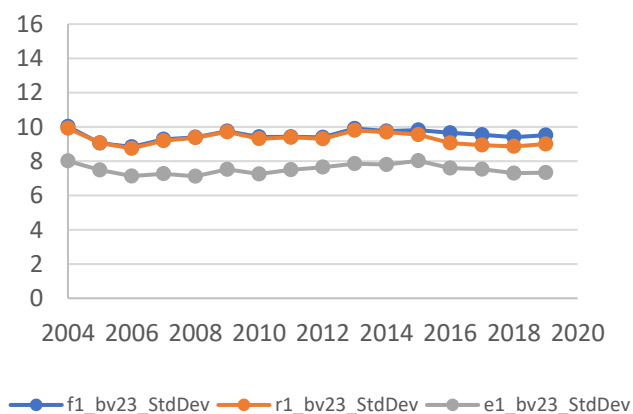
Genotyped females with records



Non genotyped females with records

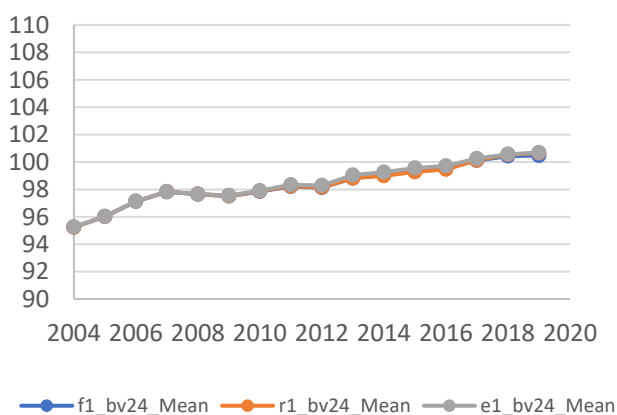


Genotyped females with records

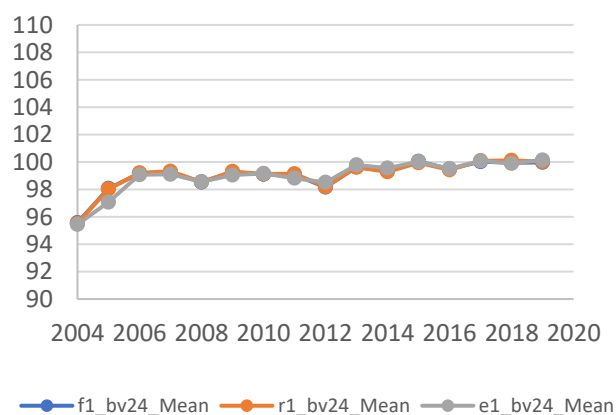


bv24

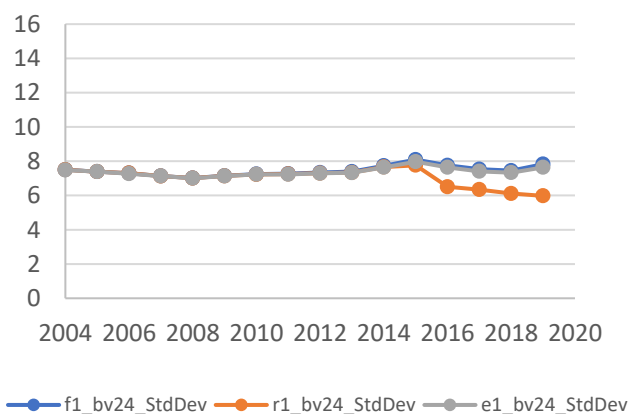
Non genotyped females with records



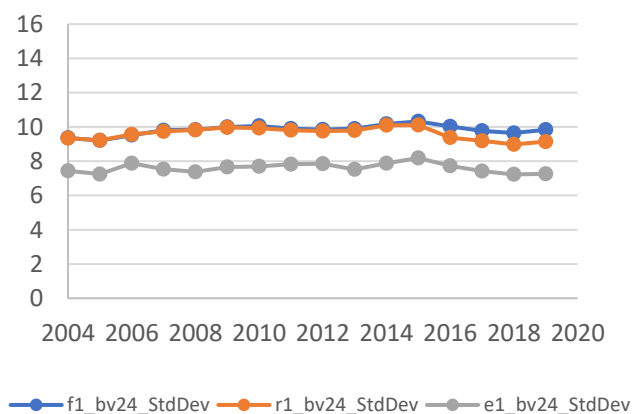
Genotyped females with records



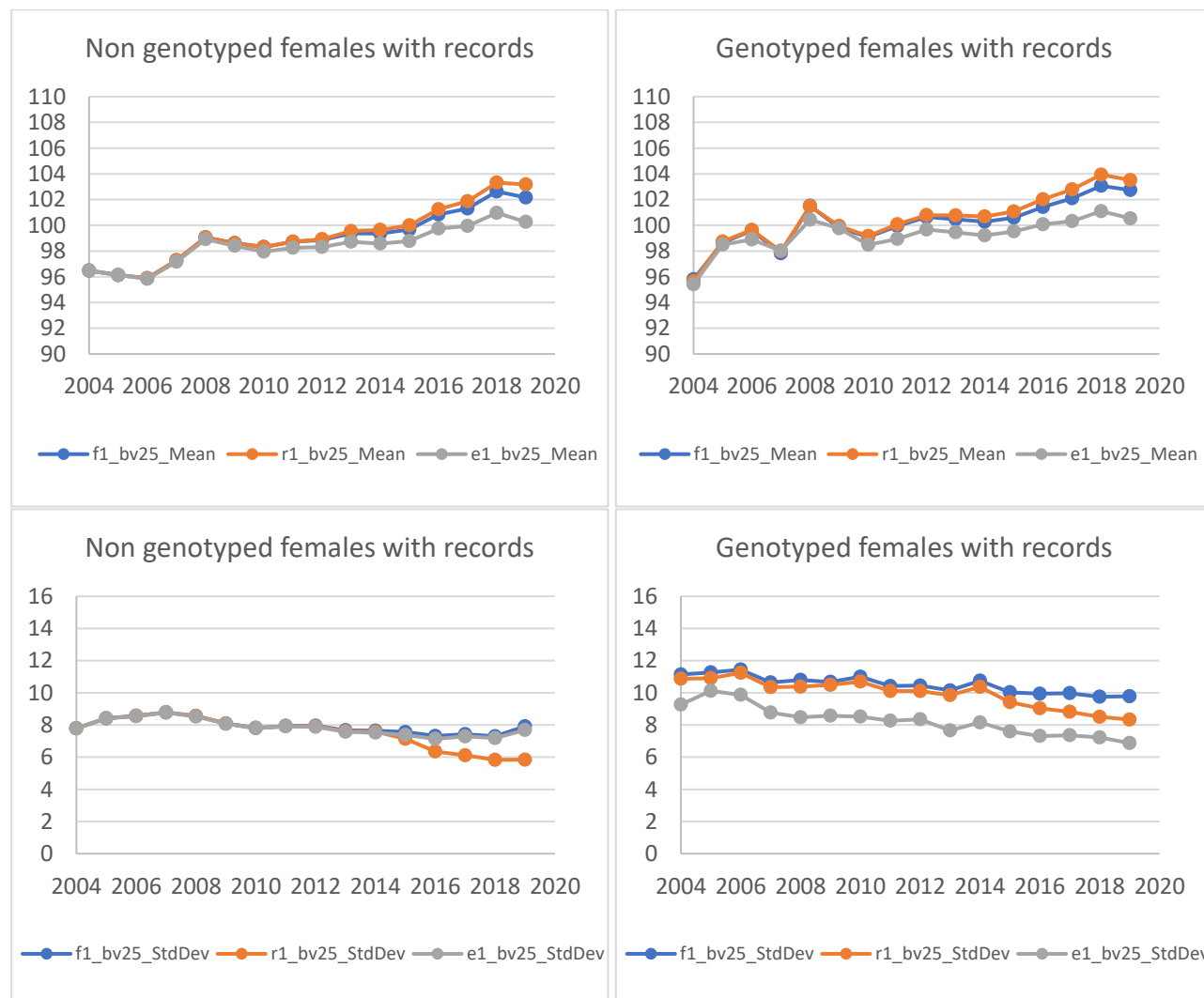
Non genotyped females with records



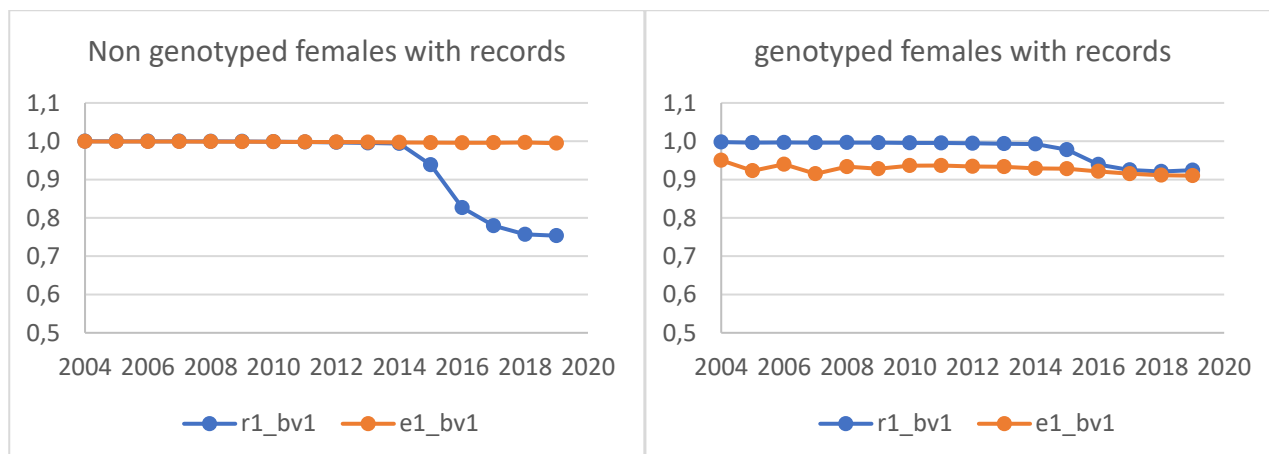
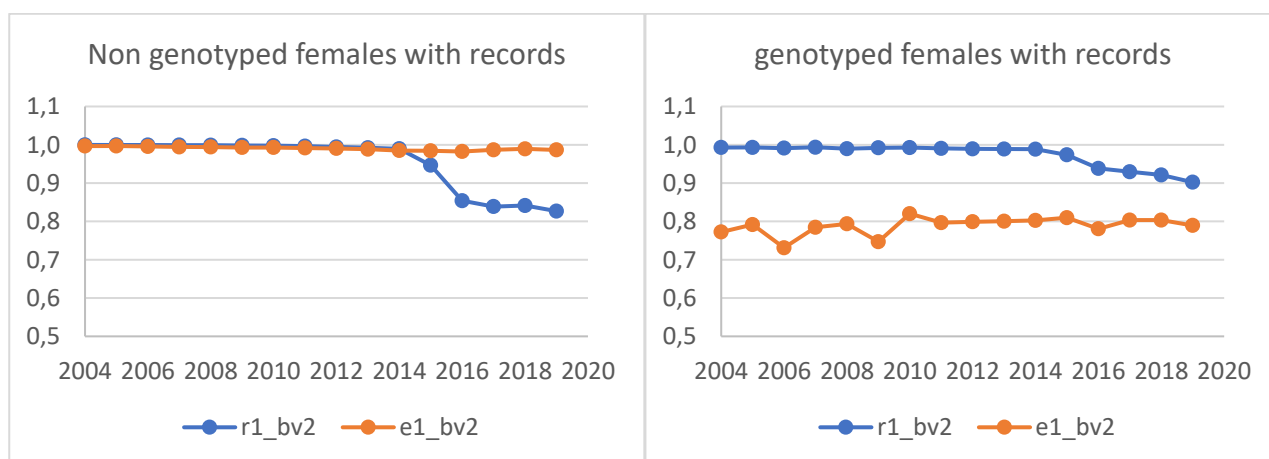
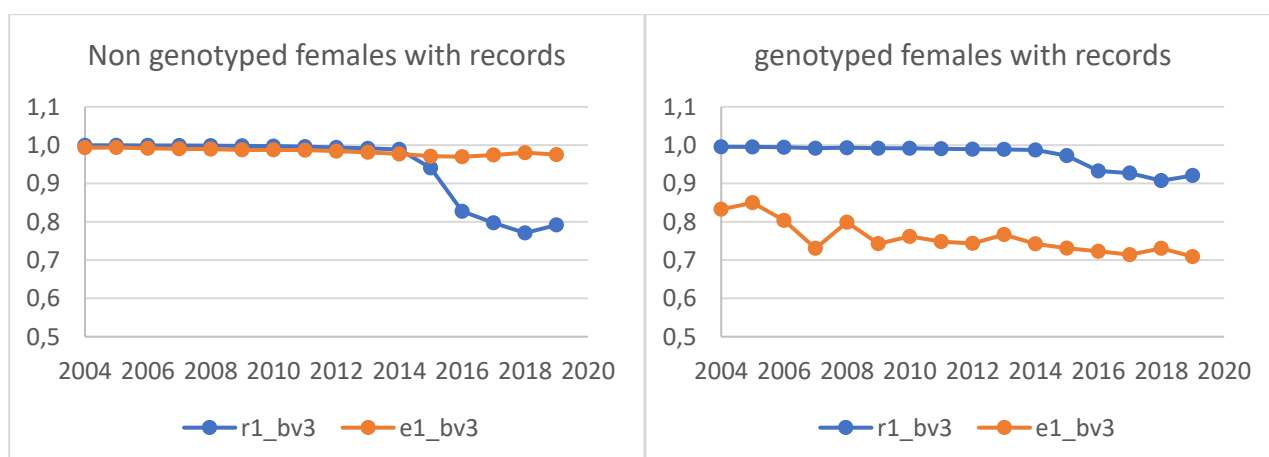
Genotyped females with records

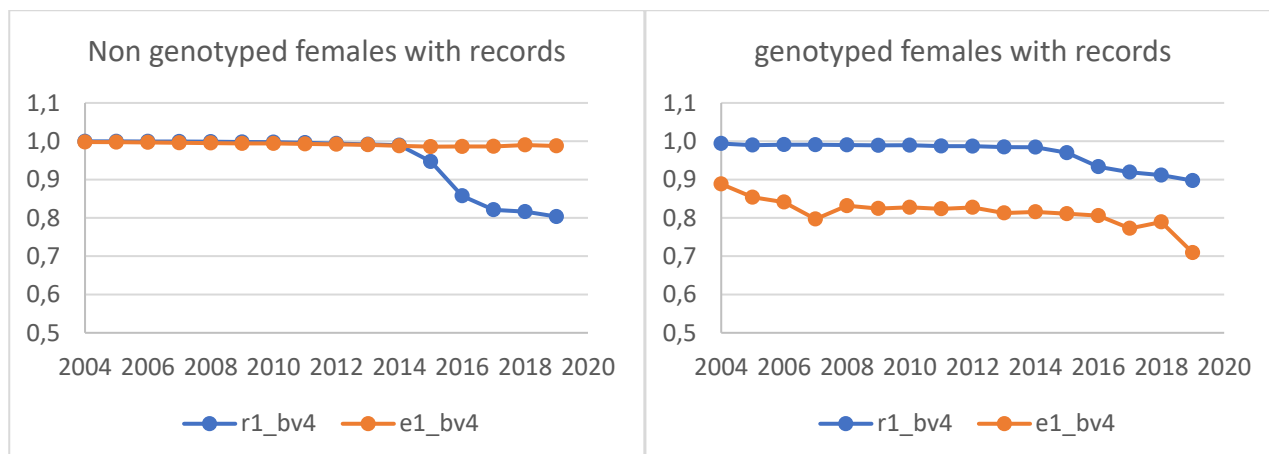
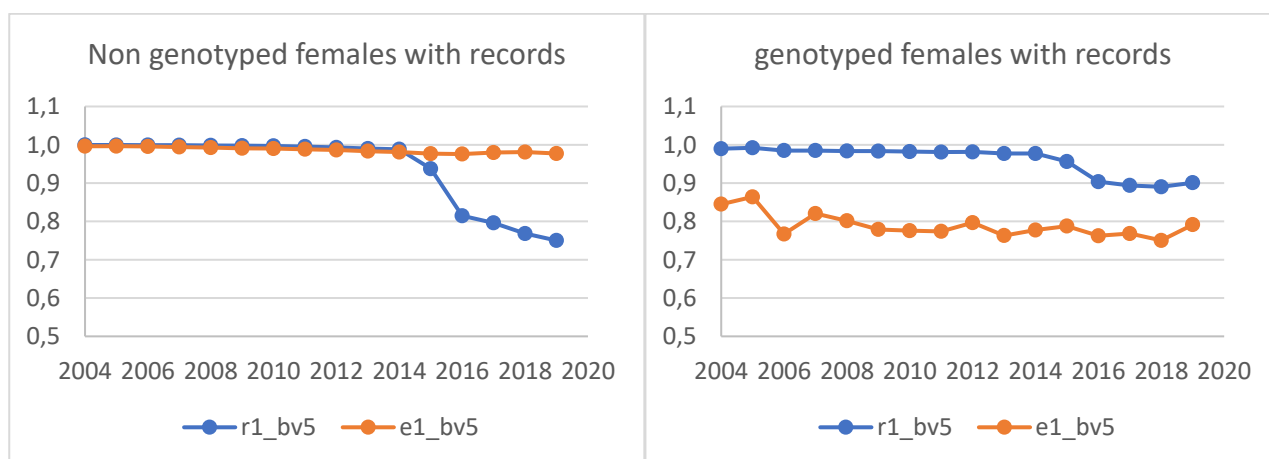
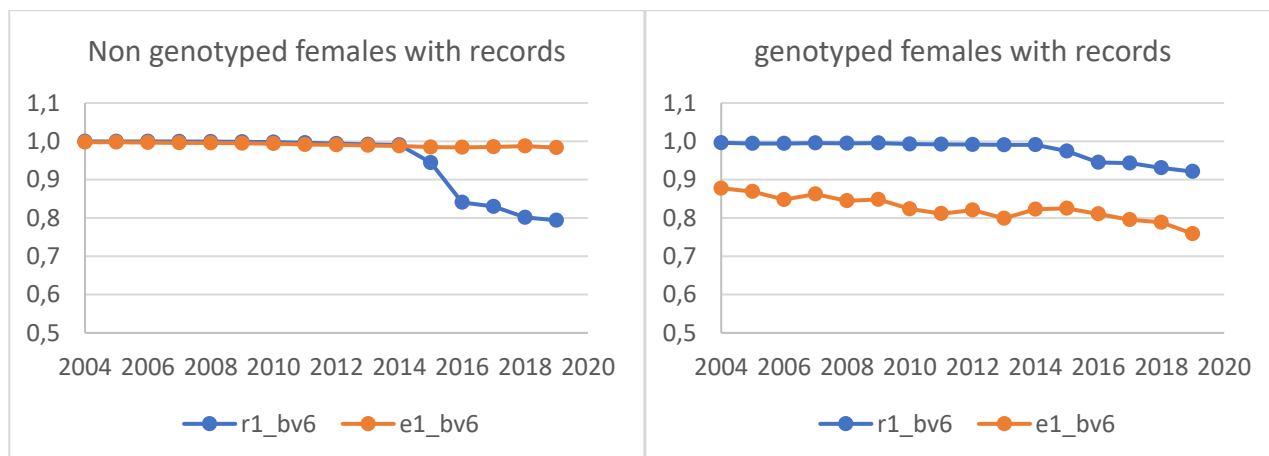


bv25

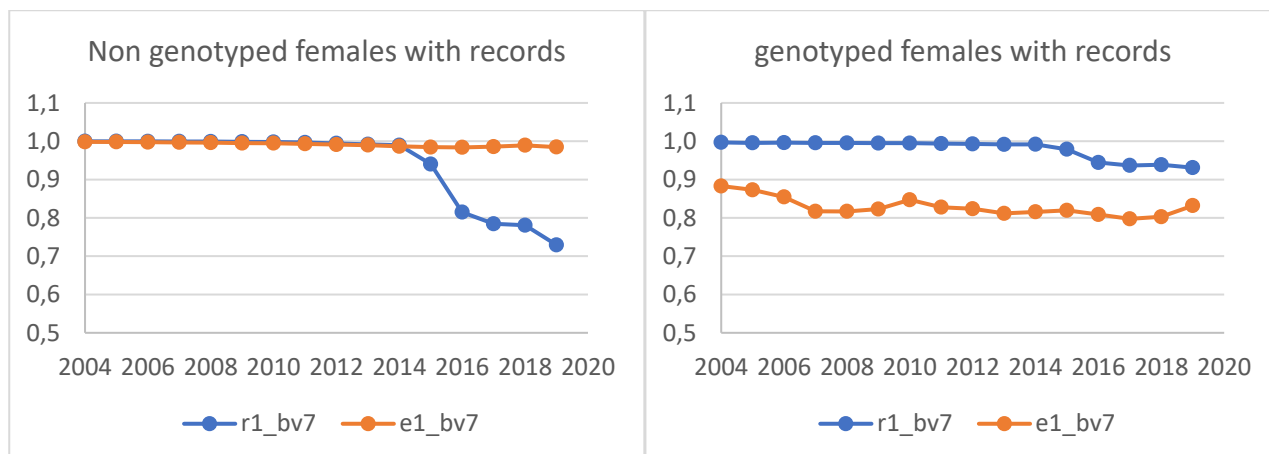


Correlations

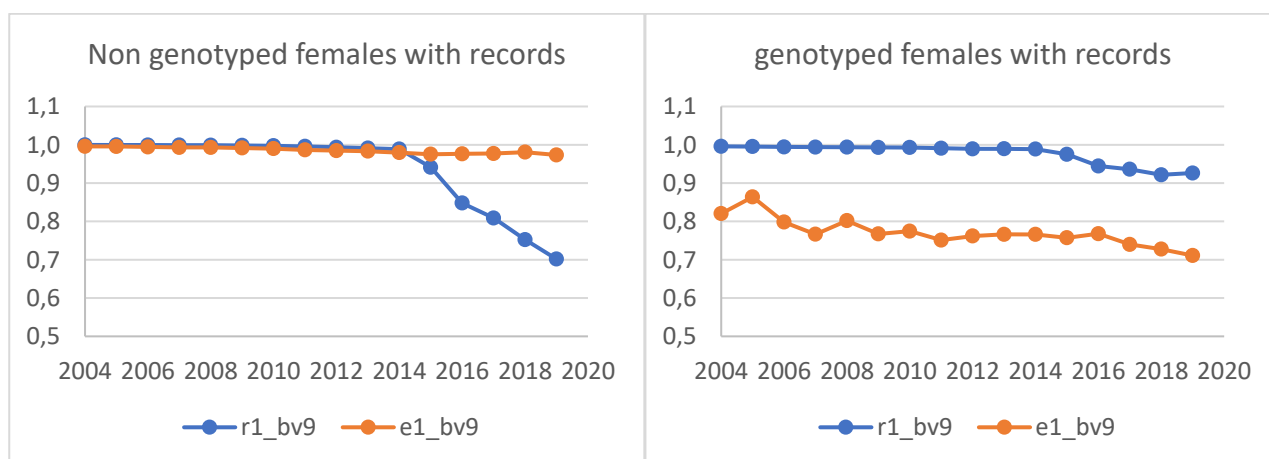
bv1**bv2****bv3**

bv4**bv5****bv6**

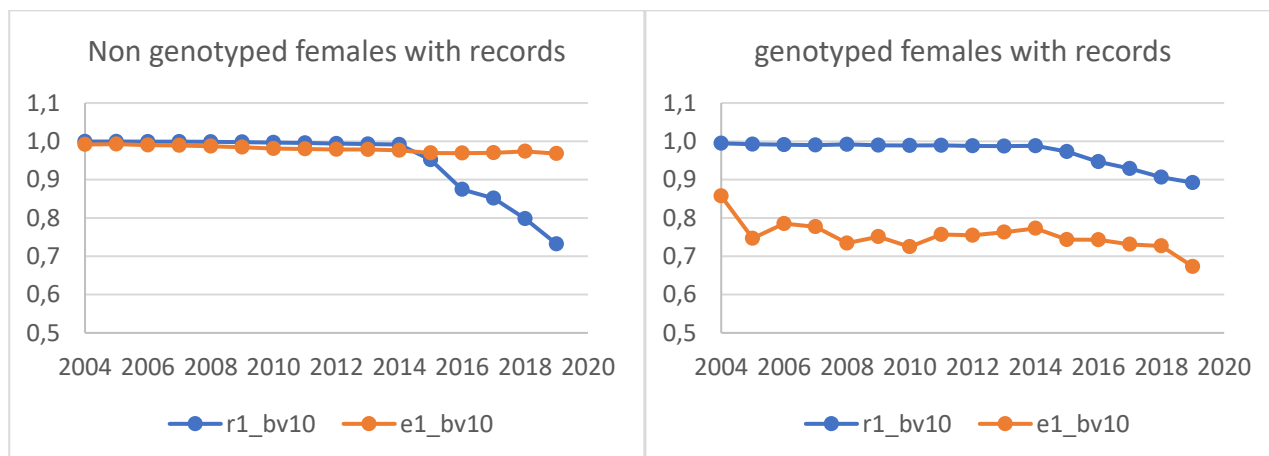
bv7



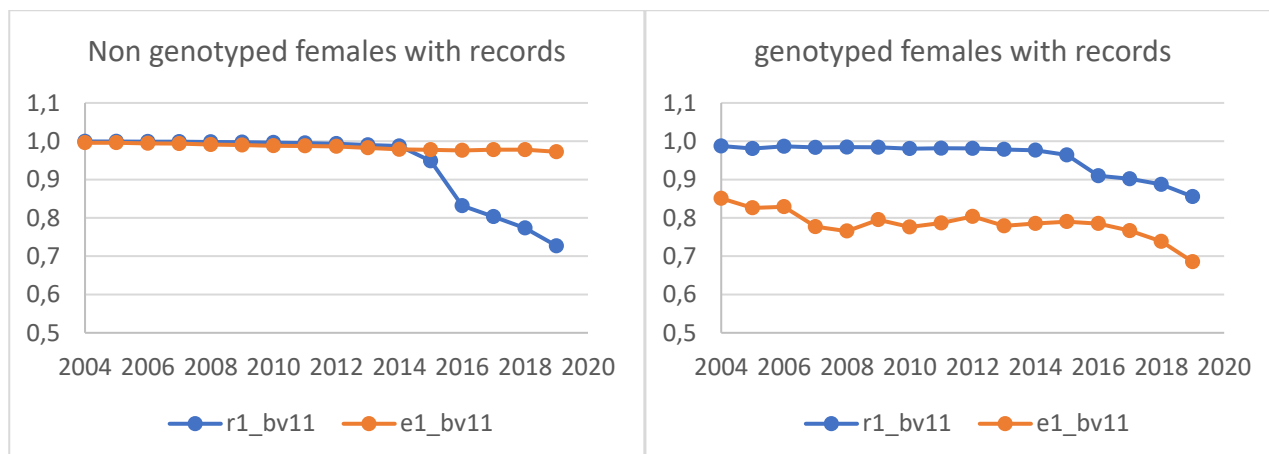
bv9



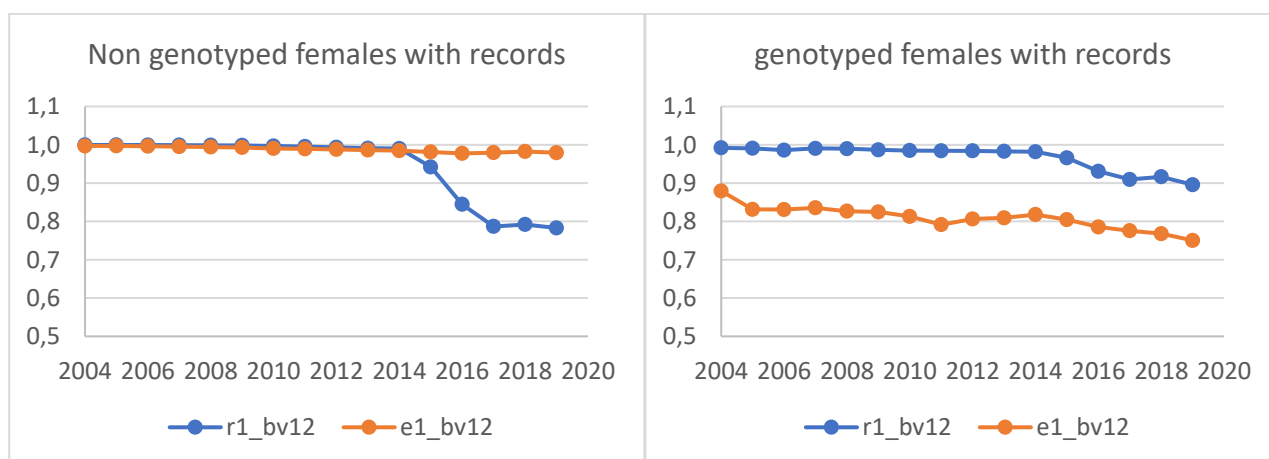
bv10



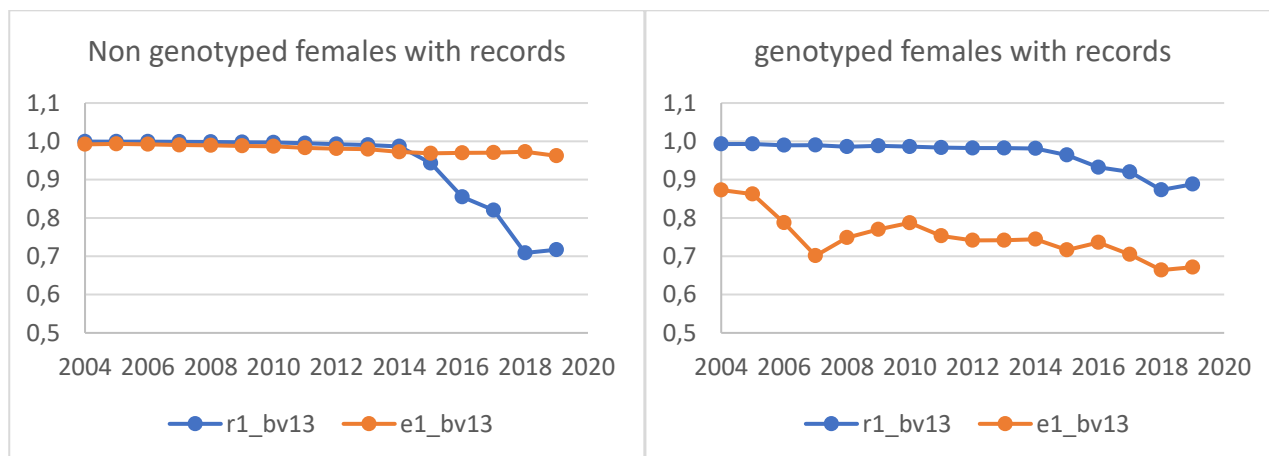
bv11



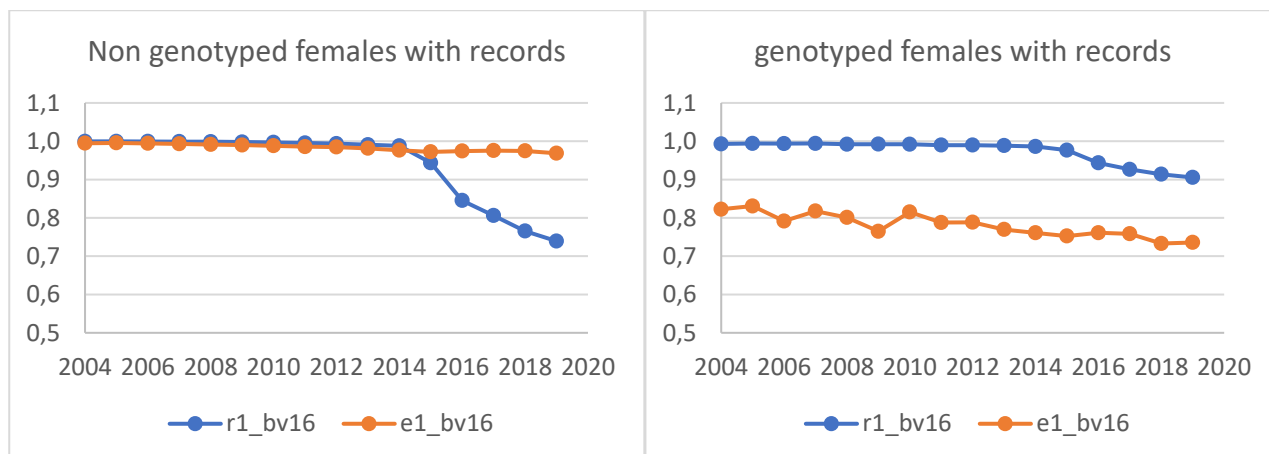
bv12



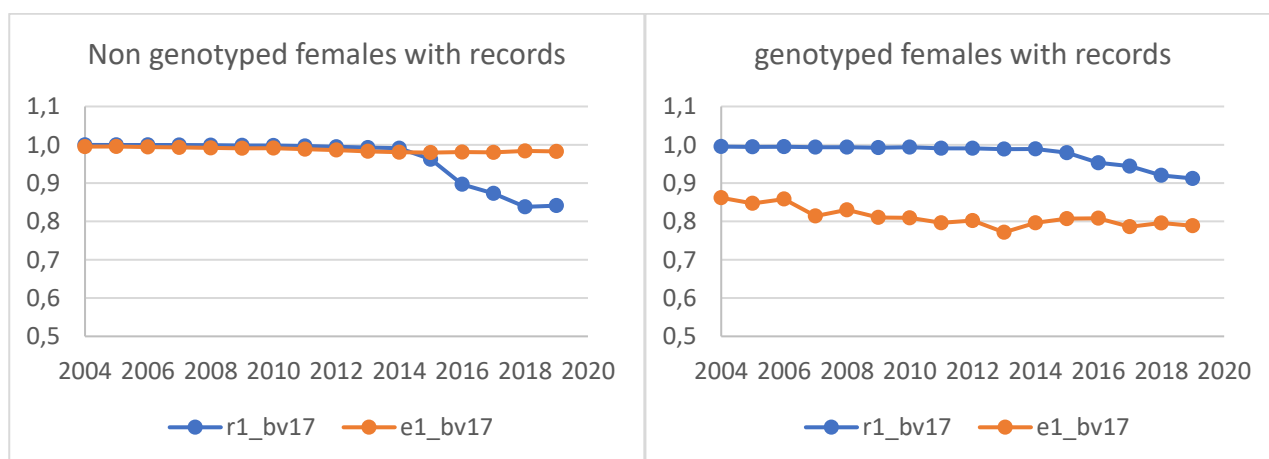
bv13



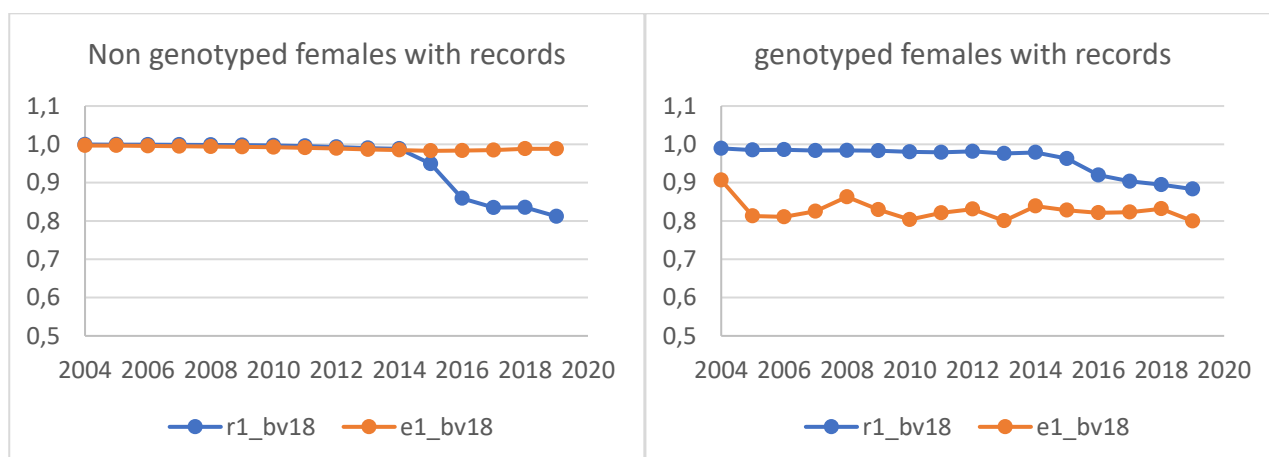
bv16



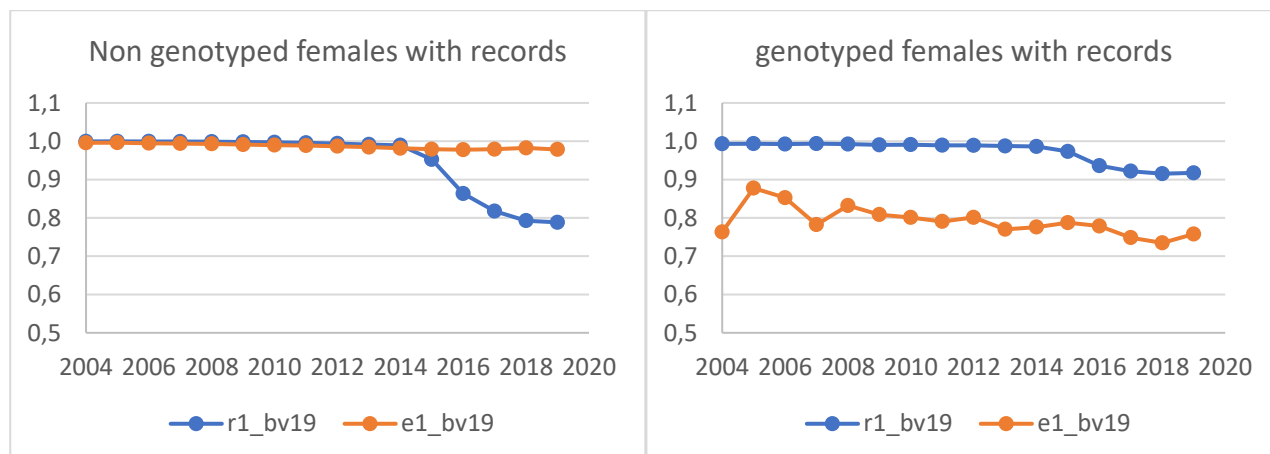
bv17



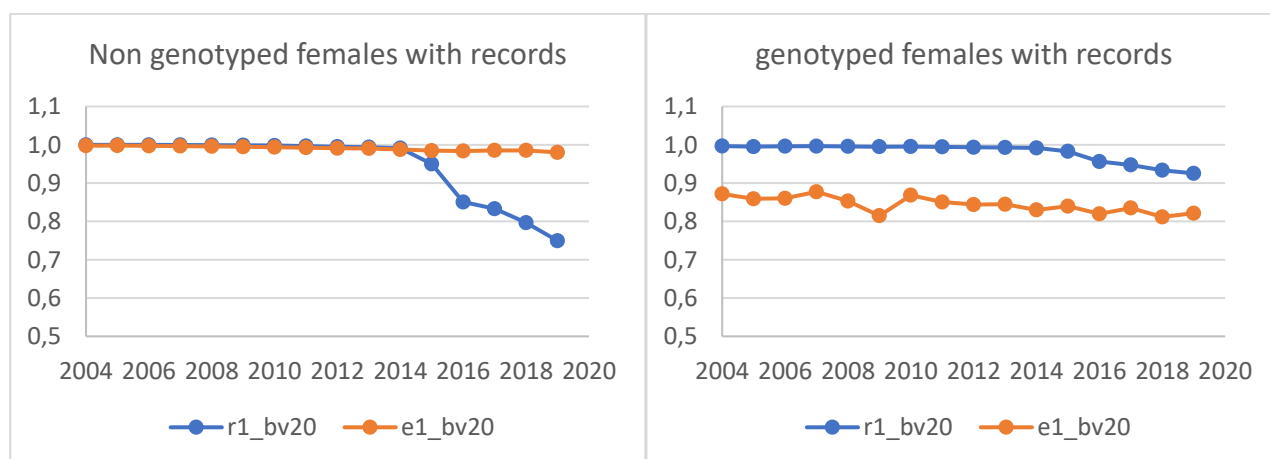
bv18



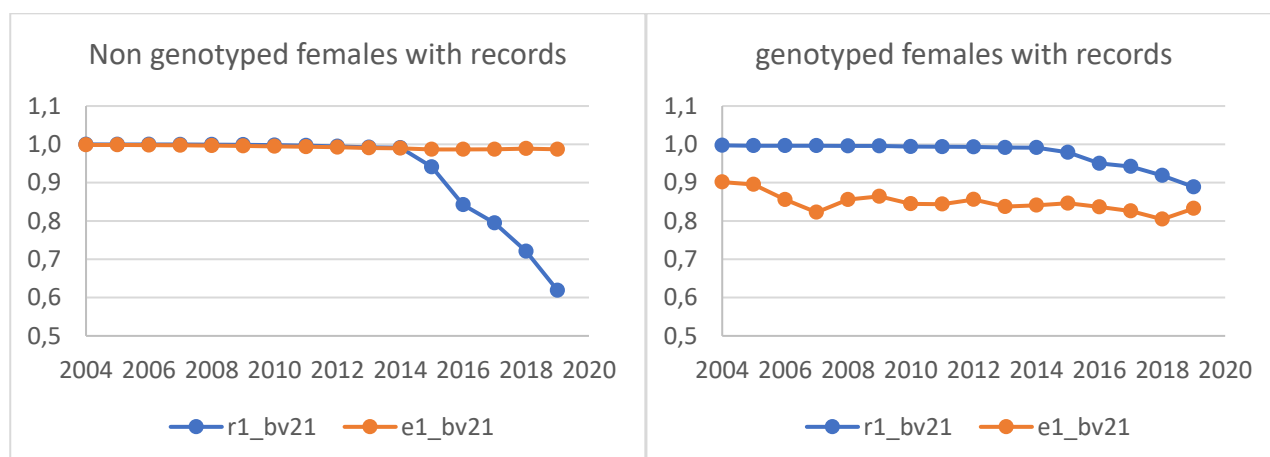
bv19



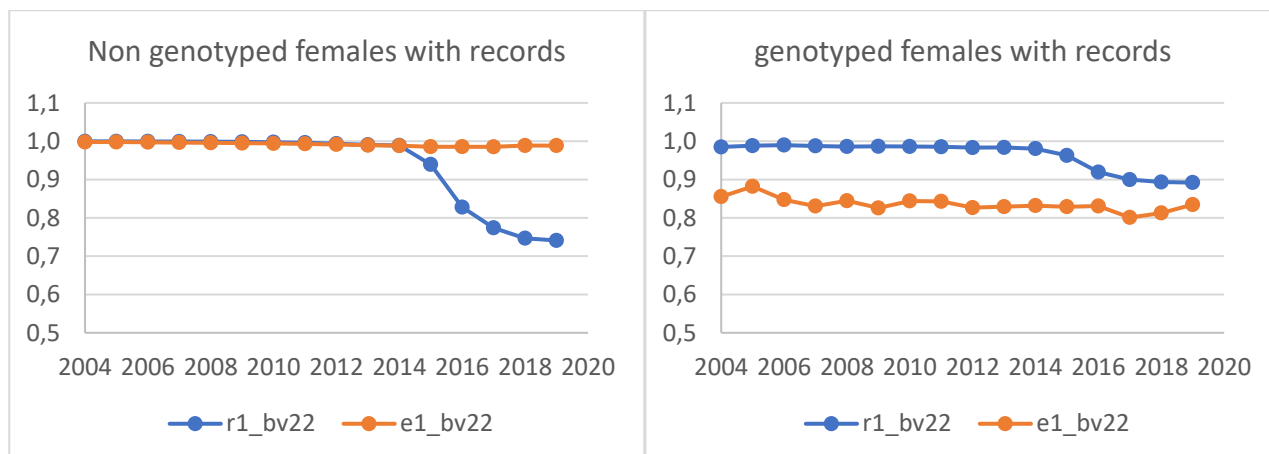
bv20



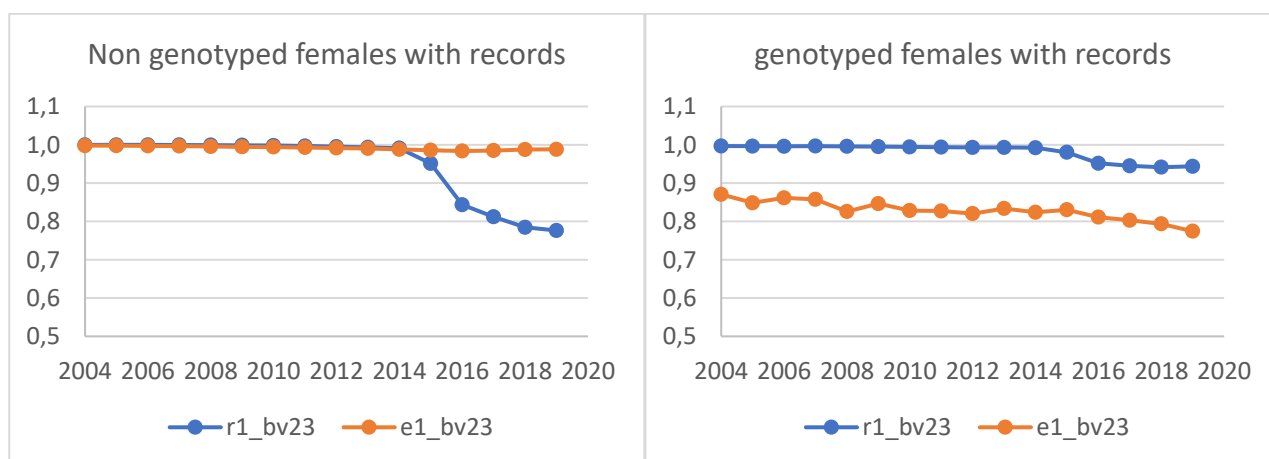
bv21



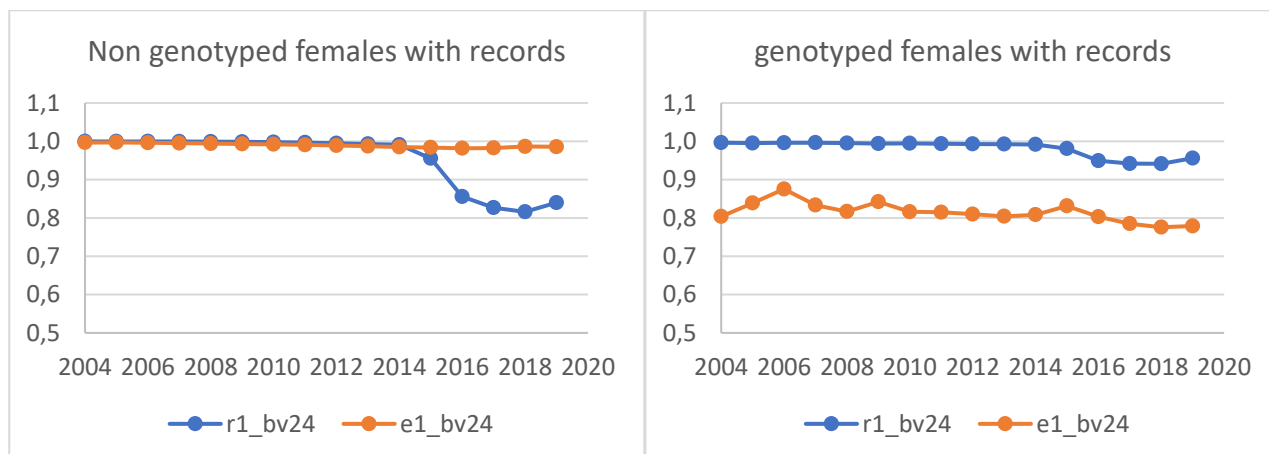
bv22



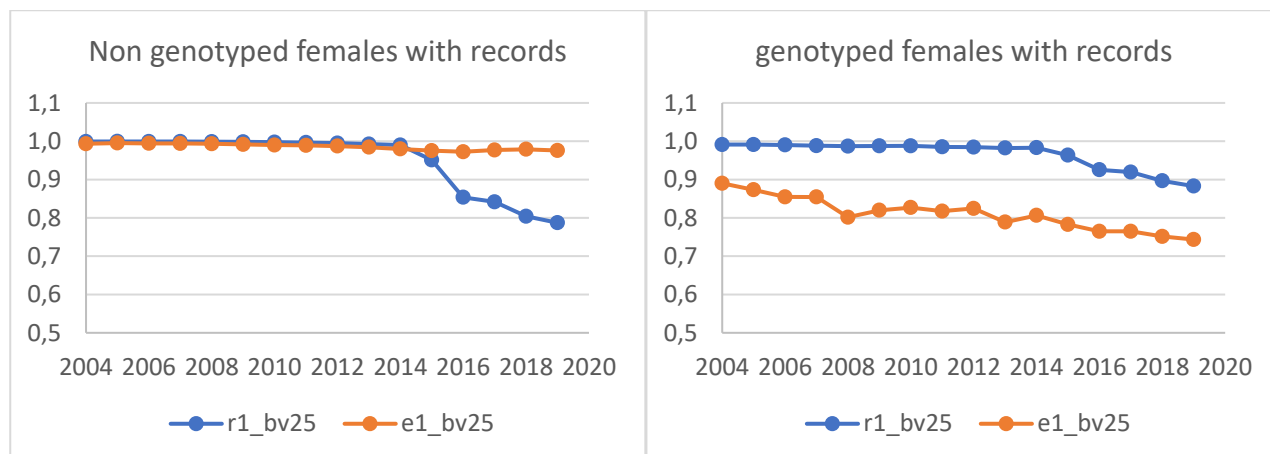
bv23



bv24



bv25



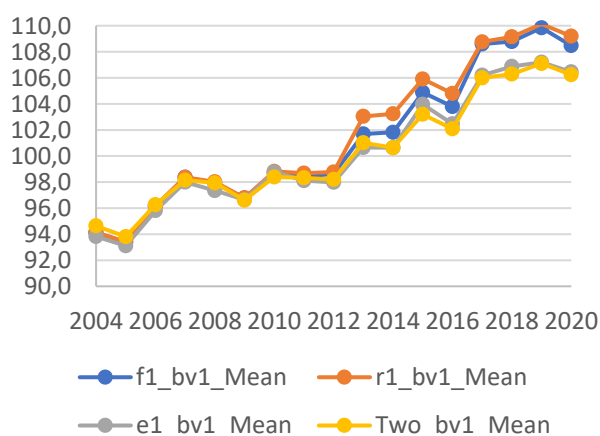
Bulls

Trend (mean and SD) and correlations

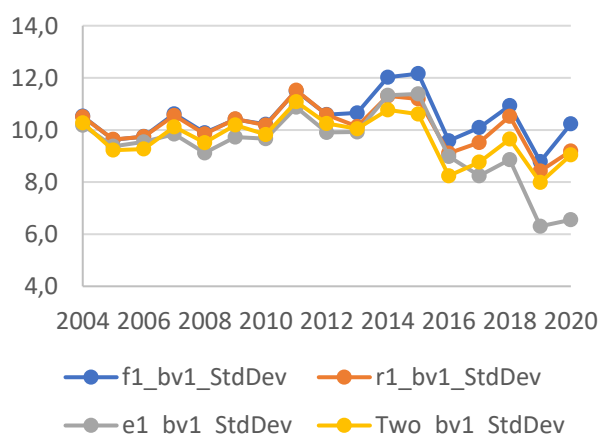
bv1

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	94.1	94.1	93.8	94.6	10.5	10.5	10.2	10.3	1.00	1.00	0.99
2005	334	93.4	93.4	93.1	93.8	9.6	9.6	9.4	9.2	1.00	0.99	0.99
2006	383	96.1	96.2	95.8	96.3	9.7	9.7	9.5	9.3	1.00	0.99	0.99
2007	334	98.4	98.4	98.0	98.1	10.6	10.6	9.8	10.1	1.00	0.97	0.99
2008	293	97.9	98.0	97.3	97.9	9.9	9.8	9.1	9.5	1.00	0.95	0.99
2009	269	96.8	96.8	96.6	96.6	10.4	10.4	9.7	10.2	1.00	0.95	0.99
2010	226	98.6	98.8	98.8	98.4	10.2	10.2	9.7	9.8	1.00	0.93	0.99
2011	167	98.4	98.7	98.1	98.3	11.5	11.5	10.9	11.1	1.00	0.93	0.99
2012	172	98.6	98.8	98.0	98.2	10.6	10.6	9.9	10.2	1.00	0.96	0.99
2013	120	101.7	103.0	100.7	101.0	10.7	10.1	9.9	10.0	0.93	0.97	0.99
2014	104	101.8	103.2	100.6	100.6	12.0	11.3	11.3	10.8	0.95	0.97	0.99
2015	80	104.9	105.9	104.0	103.2	12.2	11.2	11.4	10.6	0.91	0.97	0.99
2016	66	103.8	104.8	102.5	102.1	9.6	9.1	9.0	8.2	0.93	0.98	0.99
2017	65	108.6	108.8	106.2	106.0	10.1	9.5	8.2	8.8	0.97	0.85	0.99
2018	89	108.8	109.1	106.9	106.3	10.9	10.5	8.9	9.6	0.96	0.84	0.99
2019	60	109.8	110.1	107.2	107.1	8.8	8.4	6.3	8.0	0.95	0.70	0.99
2020	27	108.5	109.2	106.5	106.2	10.2	9.2	6.6	9.0	0.96	0.77	0.99

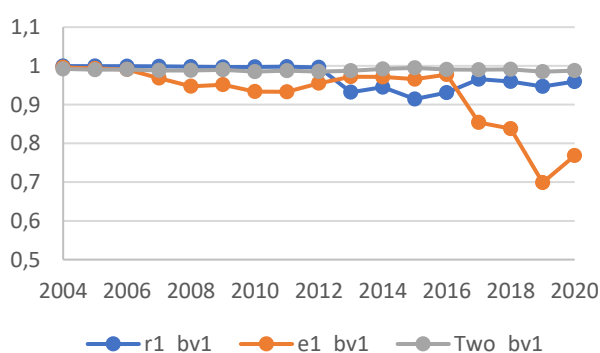
Domestic AI bulls



Domestic AI bulls



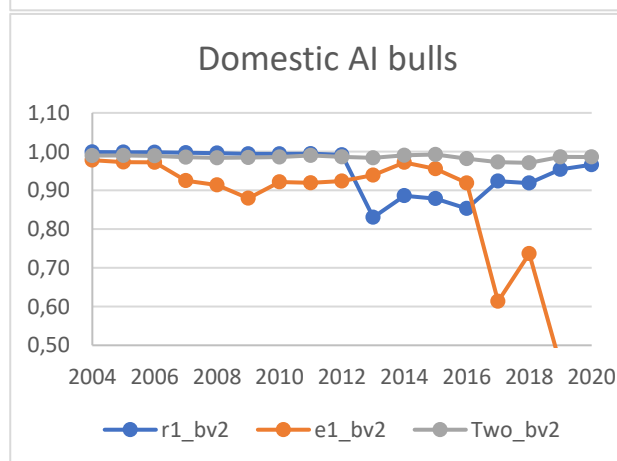
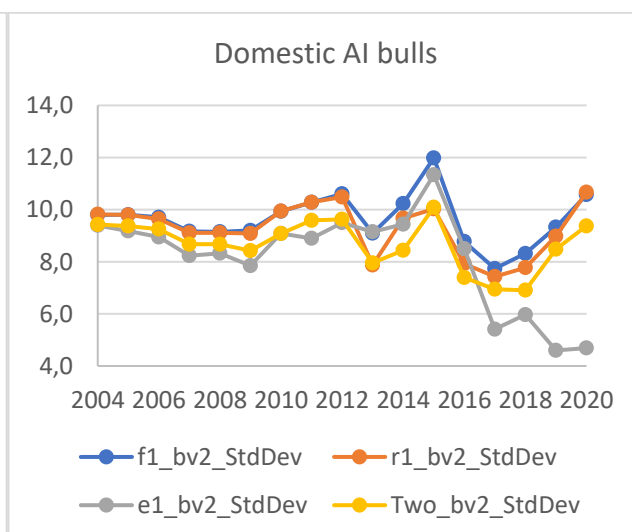
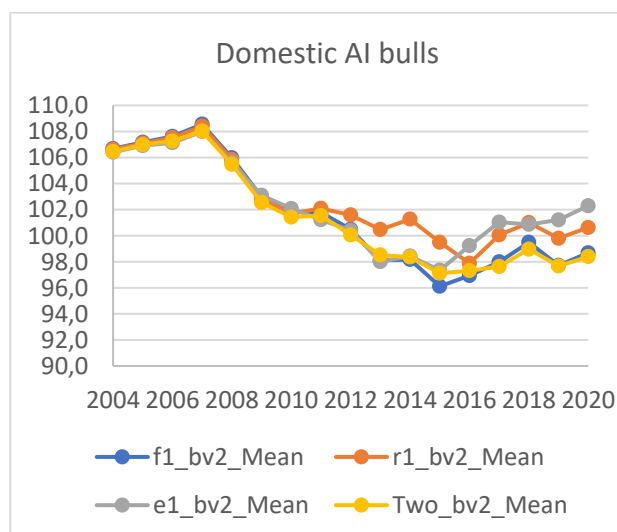
Domestic AI bulls



Mælkeafgiftsfonden

bv2

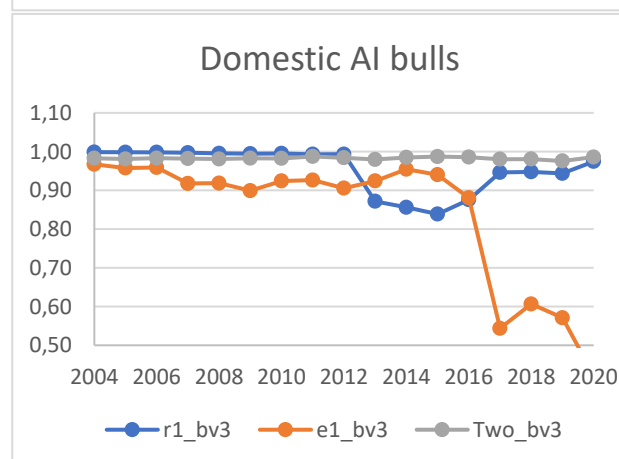
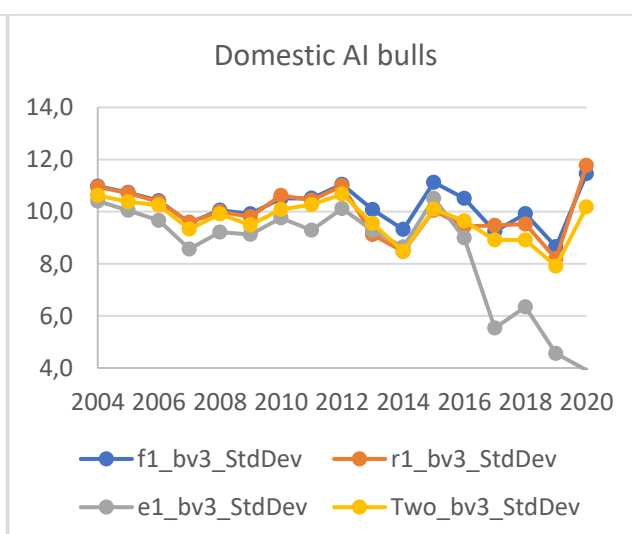
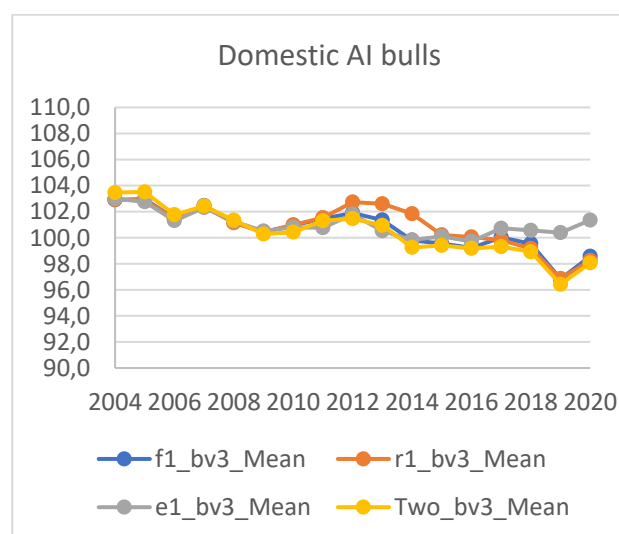
Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	106.7	106.6	106.4	106.5	9.8	9.8	9.4	9.4	1.00	0.98	0.99
2005	334	107.2	107.1	106.9	107.0	9.8	9.8	9.2	9.4	1.00	0.97	0.99
2006	383	107.6	107.5	107.1	107.3	9.7	9.6	8.9	9.3	1.00	0.97	0.99
2007	334	108.6	108.4	108.0	108.0	9.2	9.1	8.2	8.7	1.00	0.92	0.99
2008	293	106.0	105.8	105.6	105.5	9.1	9.1	8.3	8.7	1.00	0.91	0.98
2009	269	103.0	102.8	103.1	102.5	9.2	9.1	7.9	8.4	0.99	0.88	0.98
2010	226	101.8	101.7	102.1	101.4	9.9	9.9	9.1	9.1	0.99	0.92	0.99
2011	167	101.8	102.1	101.2	101.5	10.3	10.3	8.9	9.6	0.99	0.92	0.99
2012	172	100.5	101.6	100.4	100.1	10.6	10.5	9.5	9.6	0.99	0.92	0.99
2013	120	98.1	100.5	98.0	98.5	9.1	7.9	9.2	8.0	0.83	0.94	0.98
2014	104	98.2	101.3	98.4	98.4	10.2	9.7	9.4	8.4	0.89	0.97	0.99
2015	80	96.1	99.5	97.4	97.1	12.0	10.0	11.3	10.1	0.88	0.96	0.99
2016	66	96.9	97.9	99.2	97.3	8.8	7.9	8.5	7.4	0.85	0.92	0.98
2017	65	98.0	100.1	101.0	97.6	7.7	7.4	5.4	6.9	0.92	0.61	0.97
2018	89	99.5	101.0	100.9	99.0	8.3	7.8	6.0	6.9	0.92	0.74	0.97
2019	60	97.7	99.8	101.2	97.7	9.3	9.0	4.6	8.5	0.95	0.45	0.99
2020	27	98.7	100.6	102.3	98.4	10.6	10.7	4.7	9.4	0.97	0.36	0.99



Mælkeafgiftsfonden

bv3

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	102.9	102.9	103.0	103.5	11.0	10.9	10.4	10.6	1.00	0.97	0.98
2005	334	103.0	102.9	102.8	103.5	10.7	10.7	10.0	10.4	1.00	0.96	0.98
2006	383	101.5	101.4	101.3	101.8	10.4	10.4	9.7	10.2	1.00	0.96	0.98
2007	334	102.5	102.4	102.3	102.4	9.6	9.6	8.6	9.3	1.00	0.92	0.98
2008	293	101.2	101.1	101.3	101.3	10.1	10.0	9.2	9.9	1.00	0.92	0.98
2009	269	100.4	100.4	100.5	100.3	9.9	9.8	9.1	9.5	0.99	0.90	0.98
2010	226	100.9	101.0	100.8	100.4	10.5	10.6	9.8	10.1	1.00	0.92	0.98
2011	167	101.5	101.5	100.8	101.3	10.5	10.4	9.3	10.3	0.99	0.93	0.99
2012	172	101.9	102.7	101.8	101.5	11.0	11.0	10.1	10.7	0.99	0.91	0.98
2013	120	101.4	102.6	100.5	100.9	10.1	9.1	9.3	9.5	0.87	0.92	0.98
2014	104	99.8	101.8	99.8	99.3	9.3	8.5	8.6	8.5	0.86	0.95	0.98
2015	80	99.6	100.2	100.1	99.4	11.1	10.0	10.5	10.1	0.84	0.94	0.99
2016	66	99.2	100.1	99.7	99.2	10.5	9.4	9.0	9.6	0.88	0.88	0.99
2017	65	100.0	99.8	100.7	99.3	9.2	9.5	5.5	8.9	0.95	0.54	0.98
2018	89	99.5	99.2	100.6	98.9	9.9	9.5	6.3	8.9	0.95	0.61	0.98
2019	60	96.8	96.9	100.4	96.4	8.7	8.2	4.6	7.9	0.94	0.57	0.98
2020	27	98.6	98.2	101.3	98.1	11.5	11.8	3.9	10.2	0.97	0.42	0.99

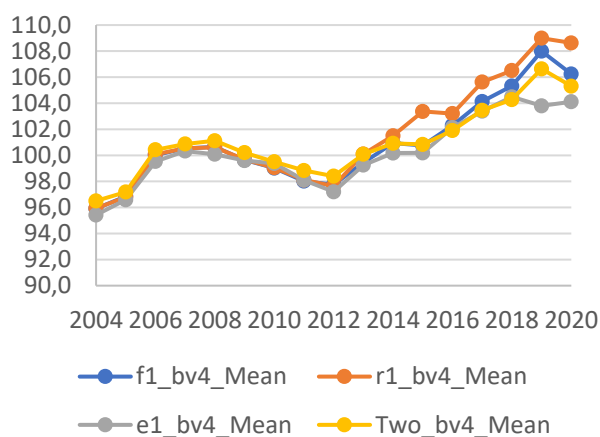


Mælkeafgiftsfonden

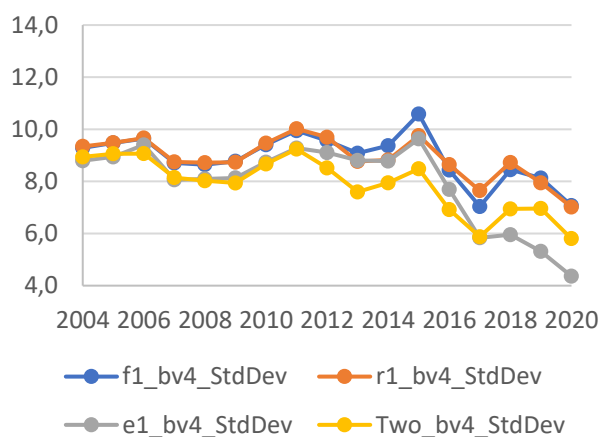
bv4

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	95.9	95.9	95.4	96.5	9.3	9.3	8.8	8.9	1.00	0.98	0.99
2005	334	96.9	96.8	96.6	97.2	9.5	9.5	8.9	9.1	1.00	0.98	0.99
2006	383	100.0	100.1	99.5	100.4	9.6	9.7	9.4	9.1	1.00	0.98	0.99
2007	334	100.5	100.5	100.3	100.9	8.7	8.7	8.1	8.1	1.00	0.95	0.98
2008	293	100.6	100.6	100.1	101.1	8.6	8.7	8.1	8.0	0.99	0.93	0.98
2009	269	99.6	99.7	99.6	100.2	8.8	8.7	8.1	7.9	0.99	0.92	0.98
2010	226	99.0	99.1	99.4	99.5	9.4	9.5	8.7	8.7	0.99	0.93	0.98
2011	167	98.0	98.1	98.1	98.8	9.9	10.0	9.3	9.2	0.99	0.93	0.99
2012	172	97.8	97.6	97.2	98.4	9.6	9.7	9.1	8.5	0.99	0.95	0.98
2013	120	99.4	100.1	99.2	100.1	9.1	8.8	8.8	7.6	0.87	0.96	0.98
2014	104	100.9	101.5	100.2	100.9	9.4	8.8	8.8	7.9	0.92	0.96	0.99
2015	80	100.8	103.4	100.2	100.8	10.6	9.8	9.6	8.5	0.89	0.92	0.99
2016	66	102.3	103.2	102.1	101.9	8.4	8.6	7.7	6.9	0.86	0.90	0.99
2017	65	104.1	105.6	103.4	103.5	7.0	7.6	5.8	5.9	0.91	0.61	0.98
2018	89	105.3	106.5	104.5	104.3	8.5	8.7	6.0	6.9	0.91	0.68	0.98
2019	60	108.0	109.0	103.8	106.6	8.1	7.9	5.3	7.0	0.94	0.59	0.98
2020	27	106.2	108.6	104.1	105.3	7.1	7.0	4.4	5.8	0.91	0.56	0.97

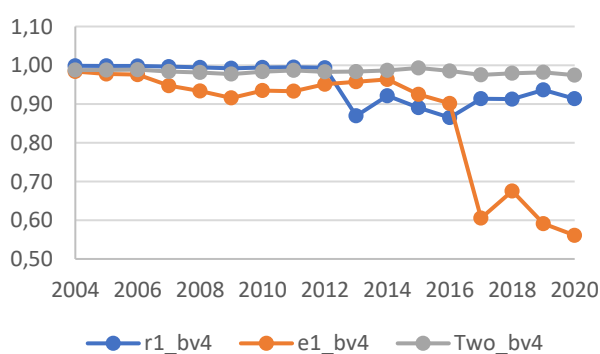
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

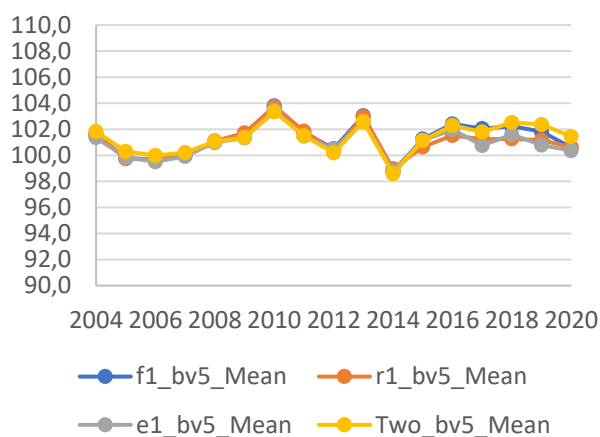


Mælkeafgiftsfonden

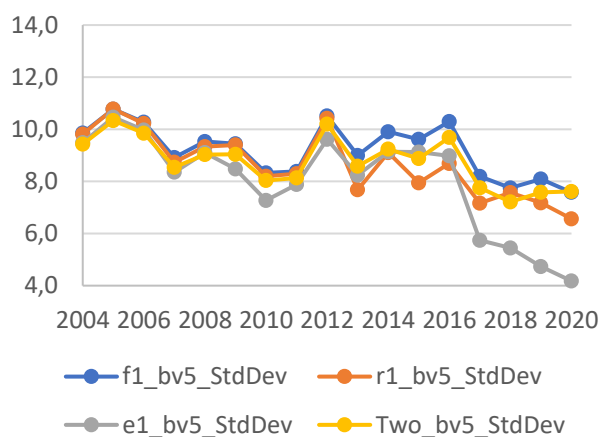
bv5

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	101.6	101.7	101.4	101.8	9.9	9.8	9.5	9.4	1.00	0.98	0.98
2005	334	99.8	99.7	99.8	100.3	10.8	10.8	10.5	10.3	1.00	0.98	0.99
2006	383	99.7	99.7	99.5	100.0	10.3	10.2	10.0	9.9	1.00	0.98	0.99
2007	334	100.0	100.1	99.9	100.2	8.9	8.7	8.4	8.5	0.99	0.92	0.98
2008	293	101.0	101.1	101.0	101.1	9.5	9.3	9.1	9.0	0.99	0.94	0.98
2009	269	101.5	101.7	101.3	101.4	9.4	9.4	8.5	9.0	0.99	0.93	0.98
2010	226	103.8	103.7	103.5	103.3	8.3	8.2	7.3	8.0	0.99	0.89	0.98
2011	167	101.8	101.9	101.5	101.5	8.4	8.3	7.9	8.1	0.99	0.94	0.98
2012	172	100.5	100.3	100.5	100.2	10.5	10.4	9.6	10.2	0.99	0.95	0.99
2013	120	103.0	103.0	102.6	102.6	9.0	7.7	8.2	8.6	0.85	0.95	0.99
2014	104	98.8	99.0	98.8	98.6	9.9	9.1	9.1	9.2	0.87	0.95	0.99
2015	80	101.3	100.6	101.2	101.1	9.6	7.9	9.1	8.9	0.85	0.96	0.99
2016	66	102.4	101.5	102.0	102.3	10.3	8.7	9.0	9.7	0.89	0.93	0.99
2017	65	102.0	101.2	100.8	101.8	8.2	7.2	5.7	7.8	0.92	0.77	0.98
2018	89	102.2	101.3	101.6	102.5	7.8	7.6	5.4	7.2	0.88	0.62	0.97
2019	60	101.8	101.2	100.8	102.4	8.1	7.2	4.7	7.6	0.93	0.68	0.98
2020	27	100.6	100.6	100.4	101.4	7.6	6.6	4.2	7.6	0.89	0.32	0.97

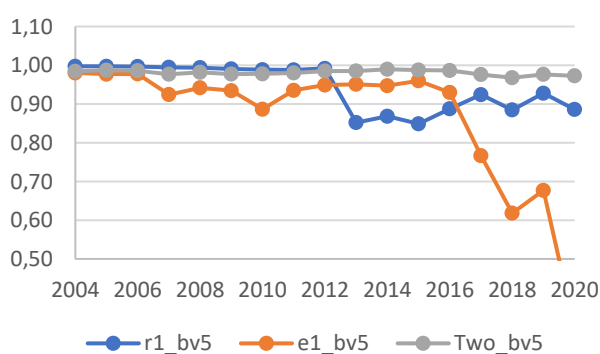
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

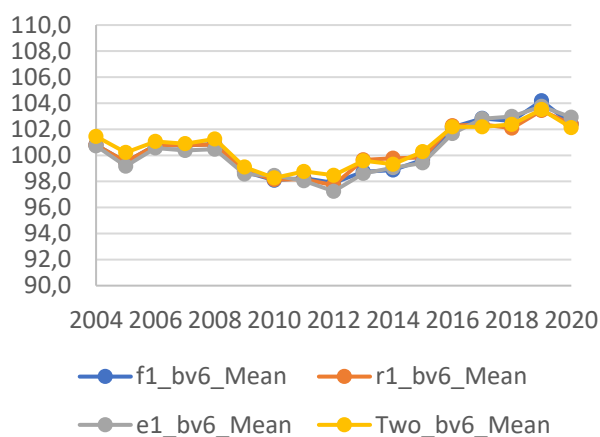


Mælkeafgiftsfonden

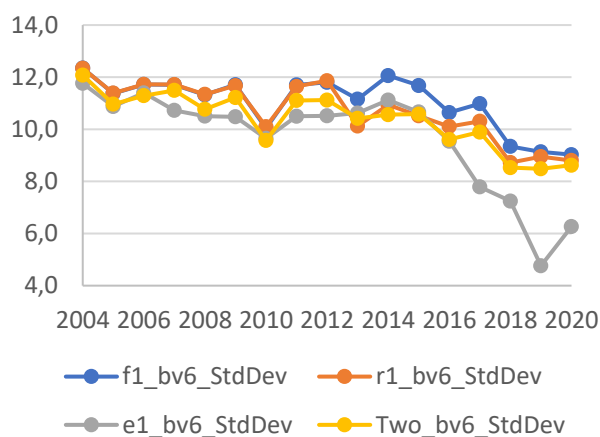
bv6

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	100.8	100.8	100.7	101.5	12.3	12.3	11.8	12.1	1.00	0.99	0.99
2005	334	99.5	99.5	99.2	100.2	11.4	11.4	10.9	11.0	1.00	0.98	0.99
2006	383	100.8	100.8	100.6	101.1	11.7	11.7	11.4	11.3	1.00	0.98	0.99
2007	334	100.8	100.8	100.4	100.9	11.7	11.7	10.7	11.5	1.00	0.96	0.99
2008	293	100.9	100.8	100.5	101.3	11.3	11.3	10.5	10.8	1.00	0.94	0.99
2009	269	98.7	98.8	98.6	99.1	11.7	11.7	10.5	11.2	1.00	0.93	0.99
2010	226	98.1	98.1	98.5	98.3	10.0	10.1	9.7	9.6	0.99	0.93	0.98
2011	167	98.3	98.2	98.0	98.8	11.7	11.6	10.5	11.1	1.00	0.93	0.99
2012	172	97.9	97.7	97.2	98.5	11.8	11.9	10.5	11.1	1.00	0.92	0.99
2013	120	98.7	99.7	98.6	99.6	11.2	10.1	10.6	10.4	0.89	0.96	0.99
2014	104	98.9	99.8	99.1	99.3	12.1	10.9	11.1	10.6	0.92	0.96	0.99
2015	80	99.7	99.8	99.4	100.3	11.7	10.5	10.7	10.6	0.91	0.96	0.99
2016	66	102.2	102.3	101.7	102.2	10.6	10.1	9.5	9.6	0.91	0.96	0.99
2017	65	102.8	102.4	102.8	102.2	11.0	10.3	7.8	9.9	0.97	0.77	0.98
2018	89	102.6	102.1	103.0	102.4	9.3	8.7	7.2	8.5	0.93	0.74	0.98
2019	60	104.2	103.4	103.8	103.5	9.1	9.0	4.8	8.5	0.97	0.57	0.97
2020	27	102.4	102.4	102.9	102.1	9.0	8.8	6.3	8.6	0.96	0.56	0.98

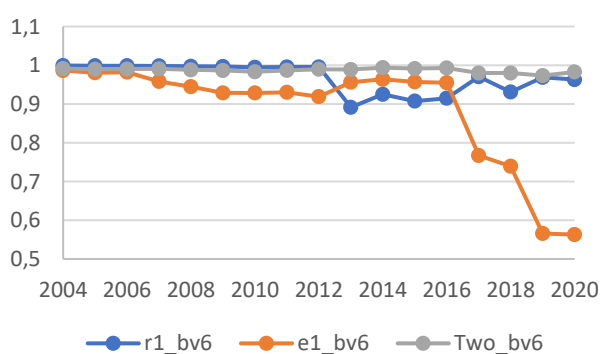
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

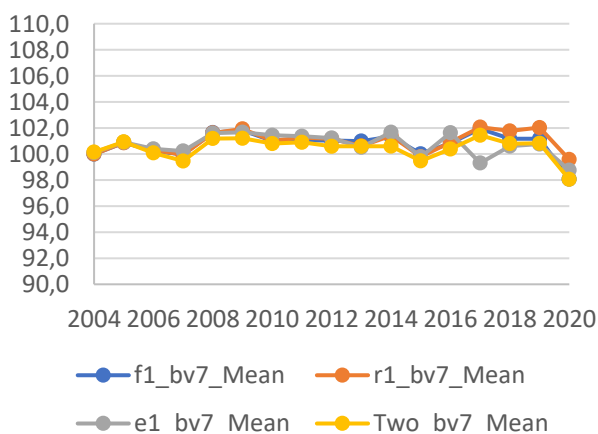


Mælkeafgiftsfonden

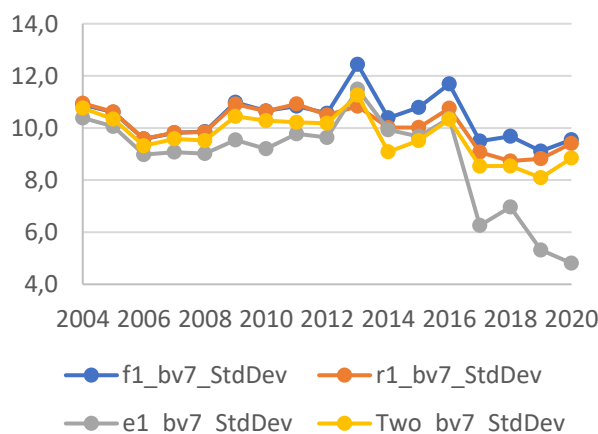
bv7

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	100.0	100.0	100.1	100.1	10.9	10.9	10.4	10.8	1.00	0.99	0.99
2005	334	100.9	100.9	100.9	100.9	10.6	10.6	10.1	10.3	1.00	0.98	0.99
2006	383	100.2	100.3	100.4	100.1	9.6	9.6	9.0	9.3	1.00	0.97	0.99
2007	334	100.0	99.9	100.2	99.5	9.8	9.8	9.1	9.6	1.00	0.97	0.99
2008	293	101.6	101.6	101.6	101.2	9.9	9.8	9.0	9.5	1.00	0.93	0.99
2009	269	101.8	101.9	101.7	101.2	11.0	10.9	9.5	10.4	1.00	0.92	0.99
2010	226	101.0	101.0	101.4	100.8	10.7	10.6	9.2	10.3	1.00	0.93	0.99
2011	167	101.1	101.3	101.4	100.9	10.8	10.9	9.8	10.2	1.00	0.94	0.99
2012	172	101.0	101.2	101.2	100.6	10.6	10.5	9.6	10.2	1.00	0.93	0.99
2013	120	101.0	100.6	100.5	100.6	12.4	10.8	11.5	11.3	0.94	0.96	0.99
2014	104	101.3	101.4	101.7	100.6	10.4	10.0	9.9	9.1	0.90	0.95	0.99
2015	80	100.0	99.8	99.8	99.5	10.8	10.0	9.7	9.5	0.90	0.93	0.99
2016	66	100.8	100.9	101.6	100.4	11.7	10.8	10.4	10.3	0.93	0.94	0.99
2017	65	101.9	102.1	99.3	101.4	9.5	9.1	6.3	8.5	0.96	0.68	0.98
2018	89	101.2	101.8	100.6	100.8	9.7	8.7	7.0	8.5	0.96	0.70	0.99
2019	60	101.2	102.0	100.8	100.8	9.1	8.8	5.3	8.1	0.96	0.67	0.98
2020	27	98.1	99.6	98.8	98.1	9.5	9.4	4.8	8.8	0.97	0.10	0.99

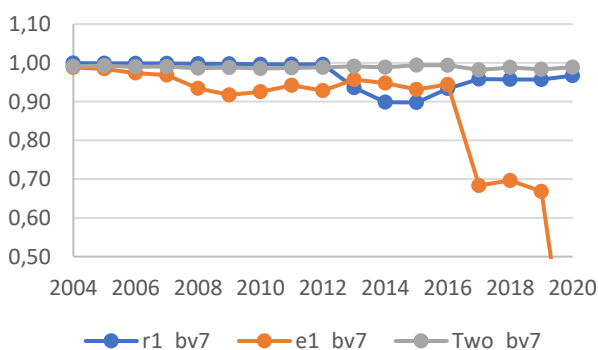
Domestic AI bulls



Domestic AI bulls



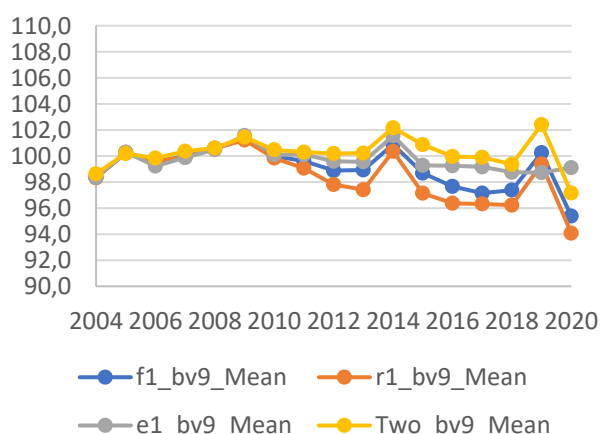
Domestic AI bulls



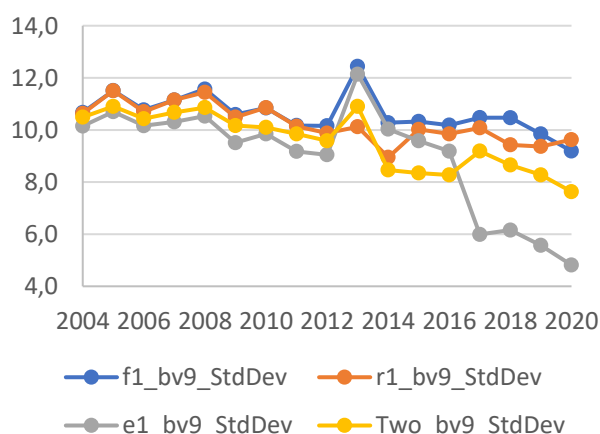
bv9

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	98.3	98.3	98.4	98.6	10.7	10.6	10.1	10.5	1.00	0.97	0.99
2005	334	100.2	100.3	100.3	100.2	11.5	11.5	10.7	10.9	1.00	0.97	0.99
2006	383	99.6	99.6	99.2	99.8	10.8	10.7	10.2	10.4	1.00	0.96	0.99
2007	334	100.0	99.9	99.9	100.4	11.1	11.1	10.3	10.7	1.00	0.94	0.99
2008	293	100.6	100.6	100.5	100.6	11.6	11.4	10.5	10.9	1.00	0.92	0.99
2009	269	101.3	101.2	101.6	101.5	10.6	10.5	9.5	10.2	1.00	0.90	0.98
2010	226	100.0	99.8	100.1	100.5	10.8	10.9	9.8	10.1	0.99	0.90	0.99
2011	167	99.6	99.1	100.1	100.3	10.2	10.1	9.2	9.8	0.99	0.93	0.98
2012	172	98.9	97.8	99.6	100.2	10.2	9.9	9.0	9.6	0.99	0.88	0.98
2013	120	98.9	97.4	99.6	100.2	12.4	10.1	12.1	10.9	0.90	0.97	0.99
2014	104	100.9	100.4	101.6	102.2	10.3	8.9	10.0	8.5	0.89	0.96	0.99
2015	80	98.7	97.1	99.3	100.9	10.3	10.0	9.6	8.3	0.87	0.96	0.99
2016	66	97.7	96.4	99.3	100.0	10.2	9.8	9.2	8.3	0.85	0.91	0.99
2017	65	97.2	96.3	99.2	99.9	10.5	10.1	6.0	9.2	0.95	0.66	0.99
2018	89	97.4	96.2	98.7	99.4	10.5	9.4	6.2	8.7	0.93	0.69	0.99
2019	60	100.3	99.4	98.7	102.4	9.8	9.4	5.6	8.3	0.97	0.55	0.98
2020	27	95.4	94.1	99.1	97.2	9.2	9.6	4.8	7.6	0.94	0.05	0.97

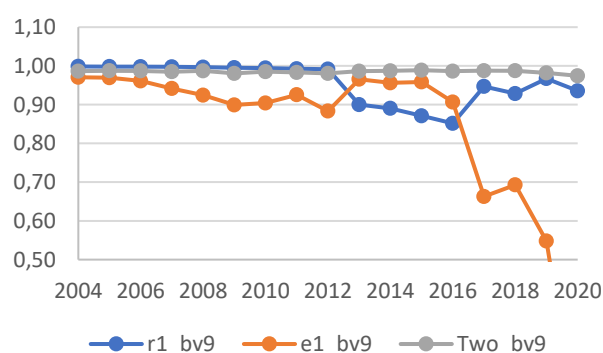
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

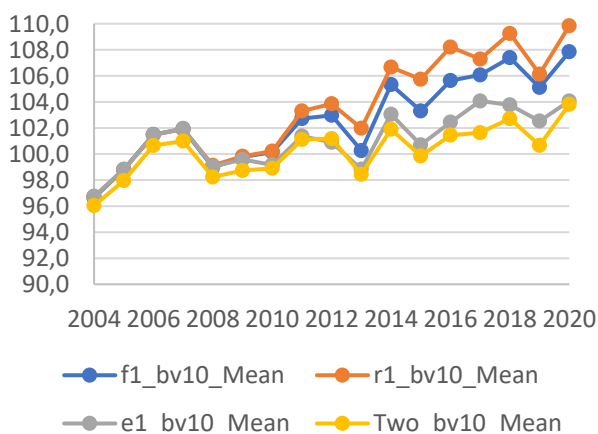


Mælkeafgiftsfonden

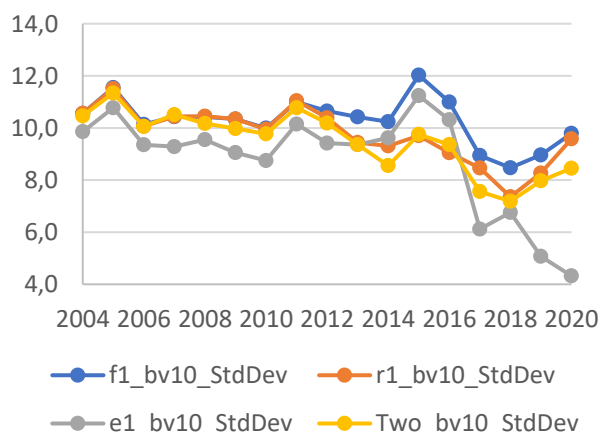
bv10

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	96.6	96.7	96.7	96.0	10.6	10.6	9.9	10.5	1.00	0.96	0.99
2005	334	98.8	98.8	98.8	98.0	11.6	11.5	10.8	11.3	1.00	0.96	0.99
2006	383	101.5	101.5	101.5	100.7	10.1	10.1	9.4	10.1	1.00	0.95	0.99
2007	334	101.9	101.9	102.0	101.0	10.4	10.4	9.3	10.5	1.00	0.93	0.99
2008	293	99.0	99.1	99.0	98.2	10.4	10.4	9.5	10.2	1.00	0.90	0.98
2009	269	99.8	99.8	99.6	98.7	10.3	10.3	9.1	10.0	0.99	0.88	0.98
2010	226	100.1	100.2	99.2	98.9	10.0	10.0	8.7	9.8	0.99	0.89	0.98
2011	167	102.7	103.3	101.4	101.1	11.0	11.0	10.2	10.8	0.99	0.94	0.99
2012	172	103.0	103.9	100.9	101.2	10.6	10.4	9.4	10.2	0.99	0.93	0.98
2013	120	100.3	102.0	98.8	98.4	10.4	9.4	9.4	9.4	0.87	0.91	0.98
2014	104	105.3	106.7	103.0	101.9	10.2	9.3	9.6	8.6	0.91	0.93	0.99
2015	80	103.3	105.7	100.7	99.9	12.0	9.7	11.2	9.8	0.88	0.95	0.99
2016	66	105.6	108.2	102.4	101.4	11.0	9.0	10.3	9.4	0.82	0.92	0.98
2017	65	106.1	107.3	104.1	101.6	8.9	8.5	6.1	7.6	0.92	0.65	0.96
2018	89	107.4	109.3	103.8	102.7	8.5	7.4	6.8	7.2	0.90	0.68	0.96
2019	60	105.1	106.1	102.5	100.7	9.0	8.3	5.1	8.0	0.94	0.65	0.96
2020	27	107.8	109.8	104.1	103.8	9.8	9.6	4.3	8.5	0.96	0.41	0.98

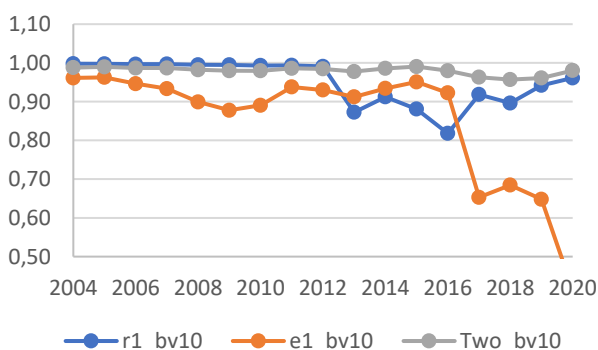
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

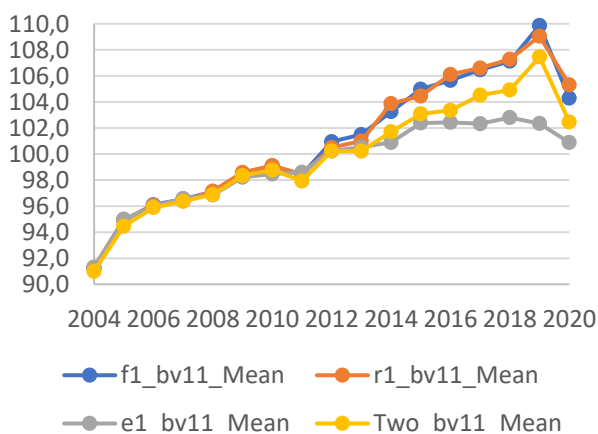


Mælkeafgiftsfonden

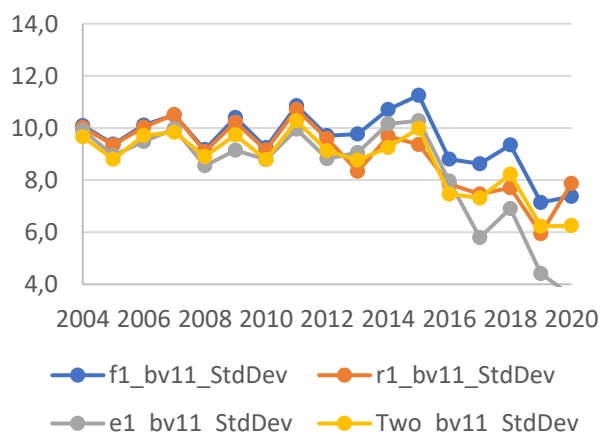
bv11

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	91.2	91.3	91.3	91.0	10.1	10.0	9.9	9.7	1.00	0.97	0.99
2005	334	94.9	94.9	95.0	94.5	9.4	9.3	8.9	8.8	1.00	0.96	0.98
2006	383	96.1	96.1	96.0	95.9	10.1	10.0	9.5	9.7	1.00	0.96	0.99
2007	334	96.5	96.4	96.6	96.4	10.5	10.5	10.0	9.8	1.00	0.95	0.99
2008	293	97.1	97.1	96.9	96.9	9.2	9.1	8.6	8.9	0.99	0.93	0.98
2009	269	98.5	98.6	98.2	98.3	10.4	10.2	9.1	9.7	0.99	0.90	0.98
2010	226	99.1	99.1	98.5	98.8	9.2	9.1	8.8	8.8	0.99	0.92	0.98
2011	167	98.4	98.4	98.6	97.9	10.9	10.7	9.9	10.3	0.99	0.94	0.98
2012	172	100.9	100.5	100.2	100.2	9.7	9.6	8.8	9.1	0.99	0.89	0.98
2013	120	101.5	101.0	100.5	100.2	9.8	8.3	9.1	8.8	0.87	0.96	0.98
2014	104	103.2	103.9	100.9	101.7	10.7	9.7	10.2	9.3	0.89	0.97	0.99
2015	80	105.0	104.4	102.4	103.1	11.3	9.4	10.3	10.0	0.89	0.96	0.99
2016	66	105.7	106.1	102.4	103.4	8.8	7.9	8.0	7.5	0.76	0.90	0.98
2017	65	106.5	106.6	102.3	104.5	8.6	7.5	5.8	7.3	0.87	0.71	0.96
2018	89	107.1	107.3	102.8	104.9	9.3	7.7	6.9	8.2	0.87	0.67	0.98
2019	60	109.9	109.0	102.3	107.4	7.1	5.9	4.4	6.2	0.87	0.40	0.96
2020	27	104.3	105.3	100.9	102.5	7.4	7.9	3.6	6.3	0.89	0.06	0.96

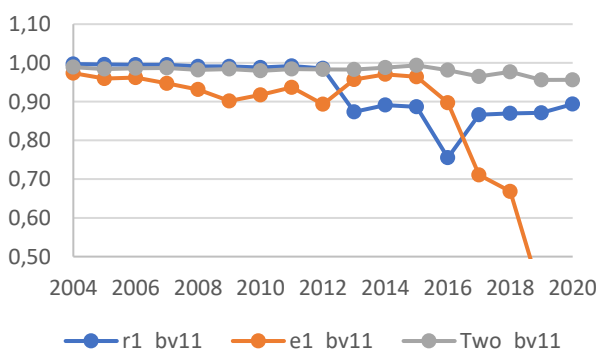
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

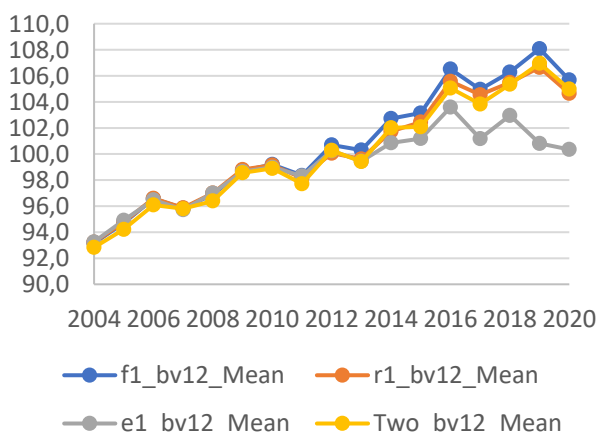


Mælkeafgiftsfonden

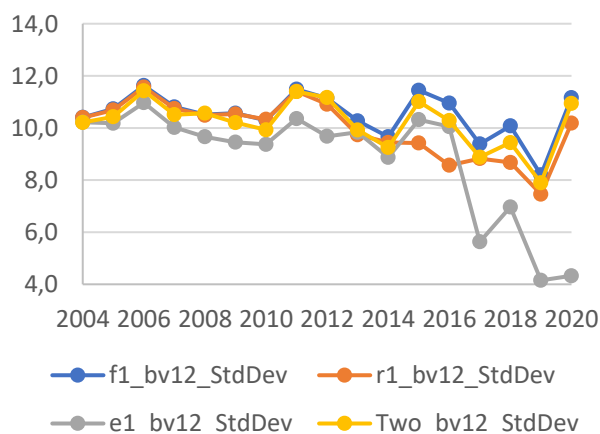
bv12

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	93.2	93.2	93.3	92.8	10.4	10.4	10.2	10.2	1.00	0.98	0.99
2005	334	94.7	94.8	94.9	94.2	10.7	10.7	10.2	10.4	1.00	0.98	0.99
2006	383	96.6	96.6	96.5	96.1	11.6	11.6	11.0	11.4	1.00	0.98	0.99
2007	334	95.8	95.9	95.7	95.8	10.8	10.7	10.0	10.5	1.00	0.95	0.99
2008	293	96.9	97.0	97.0	96.4	10.5	10.5	9.7	10.6	0.99	0.93	0.99
2009	269	98.7	98.8	98.7	98.6	10.6	10.5	9.5	10.2	0.99	0.91	0.98
2010	226	99.2	99.1	99.0	98.9	10.3	10.3	9.4	9.9	0.99	0.93	0.98
2011	167	98.4	98.2	98.3	97.7	11.5	11.4	10.4	11.4	0.99	0.94	0.99
2012	172	100.7	100.1	100.2	100.3	11.1	10.9	9.7	11.2	0.99	0.89	0.99
2013	120	100.3	99.6	99.5	99.4	10.3	9.7	9.8	9.9	0.87	0.95	0.99
2014	104	102.7	101.7	100.9	102.0	9.7	9.4	8.9	9.2	0.86	0.95	0.99
2015	80	103.1	102.5	101.2	102.1	11.4	9.4	10.3	11.0	0.88	0.94	0.99
2016	66	106.5	105.6	103.6	105.1	11.0	8.6	10.1	10.3	0.88	0.93	0.99
2017	65	105.0	104.5	101.2	103.8	9.4	8.8	5.6	8.9	0.93	0.64	0.98
2018	89	106.3	105.5	103.0	105.4	10.1	8.7	7.0	9.4	0.93	0.72	0.98
2019	60	108.1	106.6	100.8	107.0	8.2	7.5	4.2	7.9	0.93	0.39	0.98
2020	27	105.7	104.7	100.4	105.0	11.2	10.2	4.3	10.9	0.97	0.07	0.98

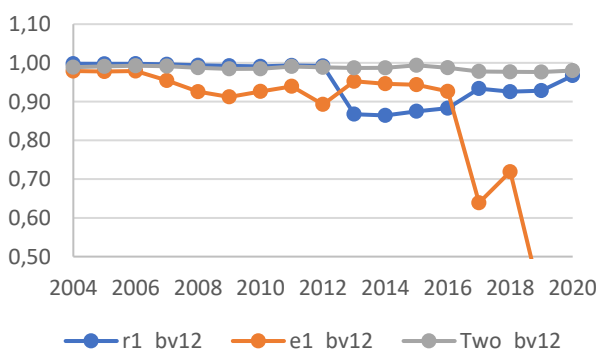
Domestic AI bulls



Domestic AI bulls



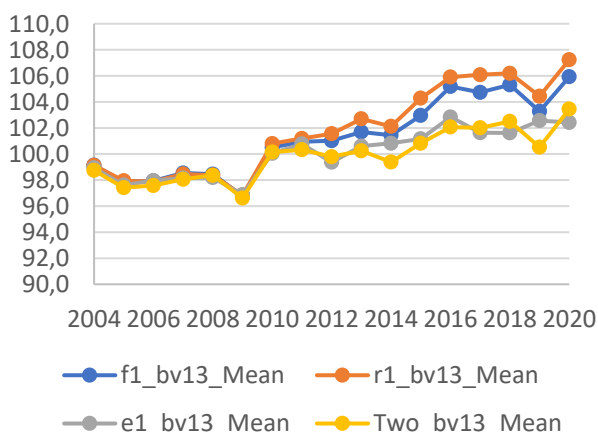
Domestic AI bulls



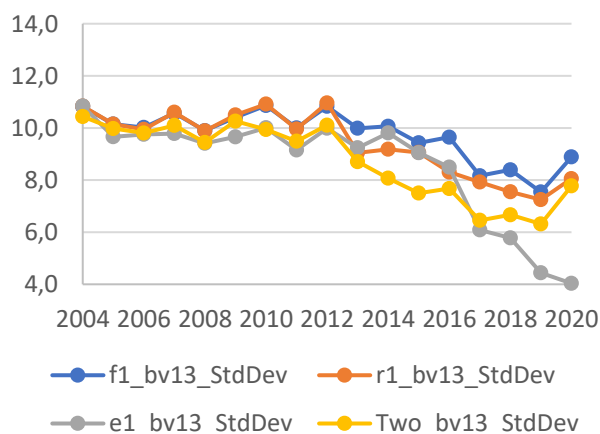
bv13

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	99.1	99.1	98.9	98.7	10.8	10.8	10.8	10.4	1.00	0.96	0.98
2005	334	97.9	97.9	97.6	97.4	10.1	10.1	9.7	10.0	1.00	0.94	0.98
2006	383	97.9	97.9	98.0	97.6	10.0	9.9	9.8	9.8	1.00	0.95	0.98
2007	334	98.5	98.5	98.2	98.1	10.6	10.6	9.8	10.1	0.99	0.92	0.98
2008	293	98.5	98.4	98.2	98.4	9.9	9.9	9.4	9.4	0.99	0.92	0.98
2009	269	96.8	96.8	96.9	96.6	10.4	10.5	9.7	10.3	0.99	0.91	0.98
2010	226	100.5	100.8	100.0	100.1	10.9	10.9	10.0	9.9	0.99	0.92	0.98
2011	167	100.9	101.2	100.8	100.3	10.0	10.0	9.2	9.5	0.99	0.89	0.97
2012	172	101.0	101.6	99.4	99.8	10.8	11.0	10.0	10.1	0.99	0.93	0.98
2013	120	101.7	102.7	100.6	100.2	10.0	9.0	9.2	8.7	0.88	0.92	0.98
2014	104	101.4	102.1	100.8	99.4	10.1	9.2	9.8	8.1	0.89	0.95	0.98
2015	80	103.0	104.3	101.2	100.8	9.4	9.1	9.0	7.5	0.83	0.95	0.98
2016	66	105.2	105.9	102.8	102.1	9.6	8.3	8.5	7.7	0.83	0.87	0.98
2017	65	104.7	106.1	101.6	102.0	8.2	7.9	6.1	6.5	0.91	0.72	0.96
2018	89	105.3	106.2	101.6	102.5	8.4	7.5	5.8	6.7	0.88	0.63	0.96
2019	60	103.3	104.4	102.6	100.5	7.5	7.2	4.4	6.3	0.93	0.58	0.97
2020	27	105.9	107.2	102.4	103.5	8.9	8.1	4.0	7.8	0.92	0.27	0.97

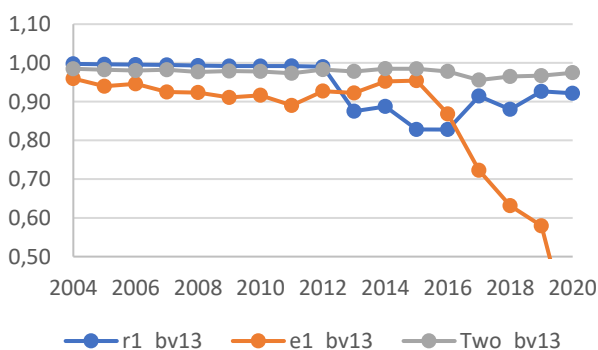
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

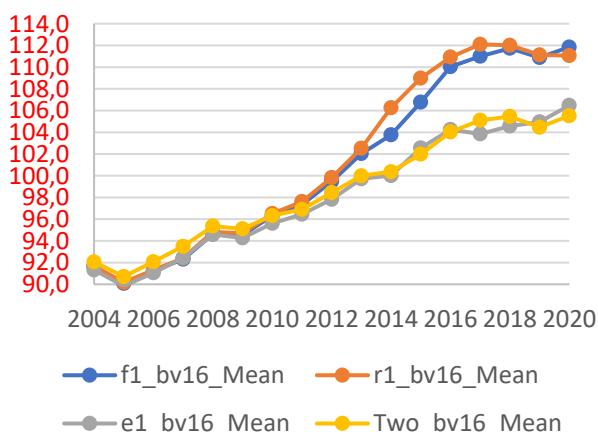


Mælkeafgiftsfonden

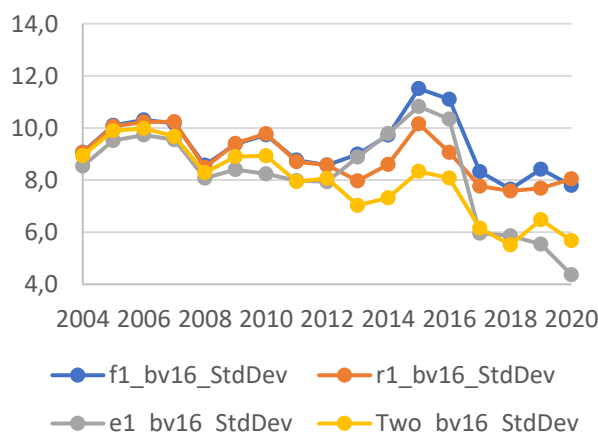
bv16

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	91.6	91.7	91.3	92.1	9.1	9.1	8.5	8.9	1.00	0.96	0.97
2005	334	90.1	90.2	89.9	90.7	10.1	10.1	9.5	9.9	1.00	0.97	0.98
2006	383	91.2	91.3	91.1	92.1	10.3	10.2	9.7	10.0	1.00	0.97	0.98
2007	334	92.3	92.4	92.4	93.5	10.2	10.2	9.5	9.7	1.00	0.94	0.98
2008	293	94.6	94.8	94.6	95.4	8.6	8.5	8.1	8.3	0.99	0.91	0.96
2009	269	94.5	94.7	94.3	95.1	9.4	9.4	8.4	8.9	1.00	0.90	0.97
2010	226	96.3	96.5	95.6	96.3	9.7	9.8	8.2	8.9	0.99	0.89	0.97
2011	167	97.3	97.6	96.4	96.9	8.8	8.7	8.0	7.9	0.99	0.92	0.95
2012	172	99.5	99.8	97.8	98.4	8.6	8.6	7.9	8.1	0.99	0.92	0.95
2013	120	102.0	102.5	99.7	100.0	9.0	8.0	8.9	7.0	0.87	0.95	0.96
2014	104	103.8	106.3	100.0	100.4	9.7	8.6	9.8	7.3	0.89	0.94	0.97
2015	80	106.8	109.0	102.6	102.0	11.5	10.2	10.8	8.3	0.89	0.95	0.99
2016	66	110.0	110.9	104.2	104.0	11.1	9.1	10.3	8.1	0.85	0.88	0.99
2017	65	111.0	112.1	103.8	105.1	8.3	7.8	6.0	6.2	0.95	0.64	0.97
2018	89	111.7	112.0	104.6	105.5	7.7	7.6	5.9	5.5	0.90	0.58	0.97
2019	60	110.9	111.1	105.0	104.5	8.4	7.7	5.5	6.5	0.94	0.55	0.98
2020	27	111.8	111.1	106.5	105.5	7.8	8.0	4.4	5.7	0.95	0.20	0.98

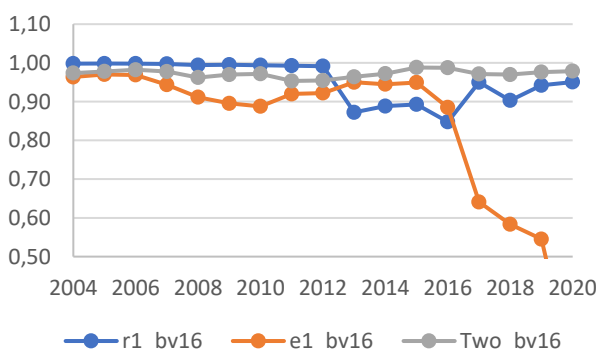
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

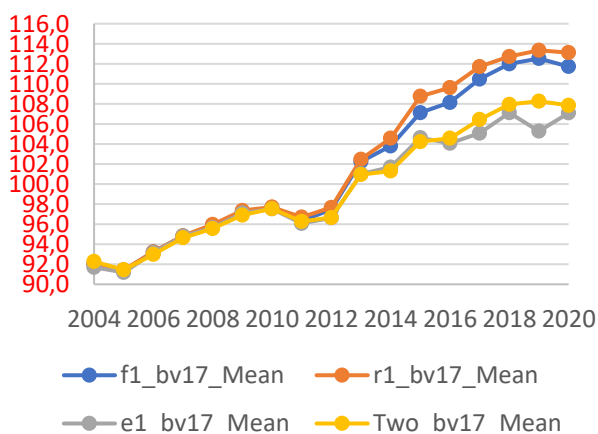


Mælkeafgiftsfonden

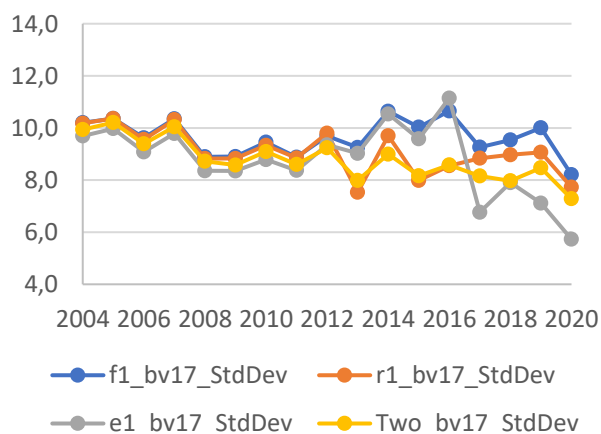
bv17

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	92.0	92.0	91.7	92.3	10.2	10.2	9.7	9.9	1.00	0.98	0.98
2005	334	91.4	91.4	91.2	91.5	10.4	10.4	10.0	10.2	1.00	0.97	0.98
2006	383	93.2	93.2	93.2	93.0	9.6	9.6	9.1	9.4	1.00	0.96	0.98
2007	334	94.8	94.8	94.8	94.6	10.4	10.3	9.8	10.0	1.00	0.94	0.98
2008	293	95.8	96.0	95.6	95.6	8.9	8.8	8.4	8.7	1.00	0.91	0.98
2009	269	97.2	97.4	97.1	96.9	8.9	8.8	8.3	8.6	0.99	0.91	0.97
2010	226	97.6	97.7	97.5	97.5	9.5	9.3	8.8	9.1	0.99	0.92	0.98
2011	167	96.3	96.7	96.1	96.3	8.9	8.8	8.4	8.6	0.99	0.91	0.98
2012	172	97.5	97.7	96.6	96.7	9.7	9.8	9.4	9.2	0.99	0.90	0.98
2013	120	102.2	102.5	101.0	100.9	9.3	7.5	9.0	8.0	0.89	0.95	0.98
2014	104	103.8	104.6	101.7	101.3	10.6	9.7	10.5	9.0	0.92	0.97	0.98
2015	80	107.1	108.8	104.6	104.2	10.0	8.0	9.6	8.2	0.85	0.96	0.98
2016	66	108.1	109.6	104.1	104.6	10.7	8.5	11.1	8.6	0.88	0.95	0.98
2017	65	110.5	111.7	105.1	106.4	9.3	8.8	6.8	8.2	0.92	0.66	0.98
2018	89	112.0	112.7	107.1	108.0	9.5	9.0	7.9	8.0	0.93	0.74	0.98
2019	60	112.5	113.3	105.3	108.3	10.0	9.1	7.1	8.5	0.96	0.67	0.99
2020	27	111.7	113.1	107.1	107.9	8.2	7.7	5.7	7.3	0.96	0.39	0.98

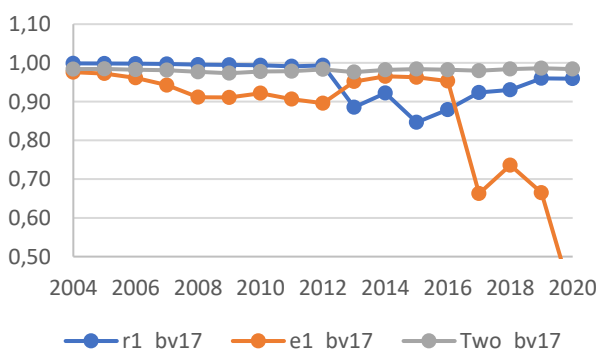
Domestic AI bulls



Domestic AI bulls



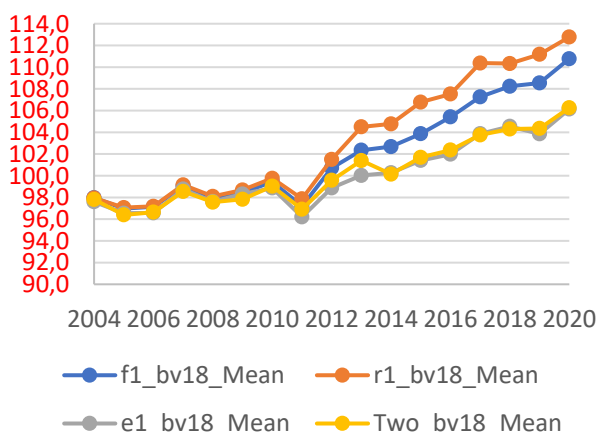
Domestic AI bulls



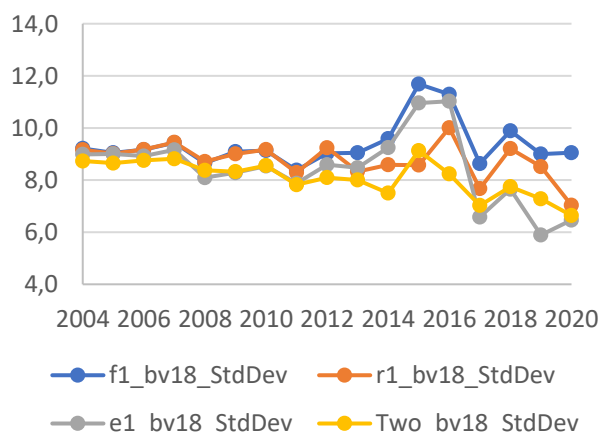
bv18

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	98.0	97.9	97.6	97.8	9.2	9.2	9.0	8.7	1.00	0.98	0.96
2005	334	97.0	97.1	96.5	96.4	9.0	9.0	9.0	8.7	1.00	0.98	0.97
2006	383	97.1	97.2	96.6	96.6	9.2	9.2	8.9	8.8	1.00	0.97	0.97
2007	334	99.0	99.2	98.8	98.5	9.4	9.4	9.2	8.8	0.99	0.96	0.98
2008	293	97.9	98.1	97.6	97.6	8.7	8.7	8.1	8.4	0.99	0.92	0.96
2009	269	98.4	98.7	98.3	97.8	9.1	9.0	8.3	8.3	0.99	0.94	0.96
2010	226	99.4	99.8	98.9	99.0	9.1	9.2	8.5	8.6	0.99	0.92	0.96
2011	167	97.2	97.9	96.2	96.9	8.4	8.3	7.9	7.8	0.99	0.92	0.95
2012	172	100.7	101.5	98.9	99.6	9.0	9.2	8.6	8.1	0.99	0.93	0.94
2013	120	102.3	104.5	100.0	101.4	9.0	8.3	8.5	8.0	0.88	0.96	0.96
2014	104	102.7	104.8	100.3	100.1	9.6	8.6	9.2	7.5	0.86	0.96	0.95
2015	80	103.9	106.8	101.4	101.7	11.7	8.6	11.0	9.1	0.89	0.96	0.97
2016	66	105.4	107.5	102.0	102.4	11.3	10.0	11.0	8.2	0.87	0.95	0.97
2017	65	107.3	110.4	103.9	103.8	8.6	7.7	6.6	7.0	0.92	0.69	0.96
2018	89	108.2	110.3	104.5	104.3	9.9	9.2	7.6	7.7	0.92	0.80	0.97
2019	60	108.5	111.2	103.9	104.3	9.0	8.5	5.9	7.3	0.94	0.76	0.98
2020	27	110.8	112.8	106.1	106.3	9.0	7.0	6.5	6.6	0.97	0.86	0.96

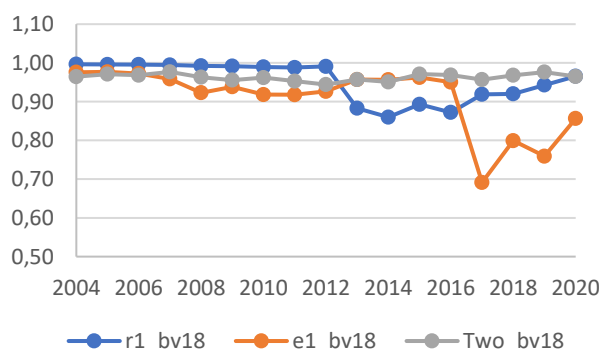
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

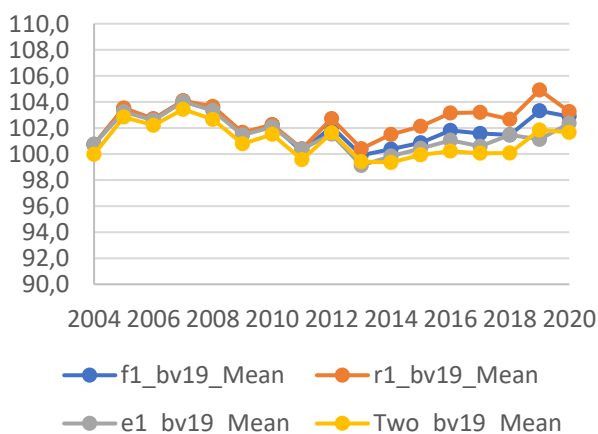


Mælkeafgiftsfonden

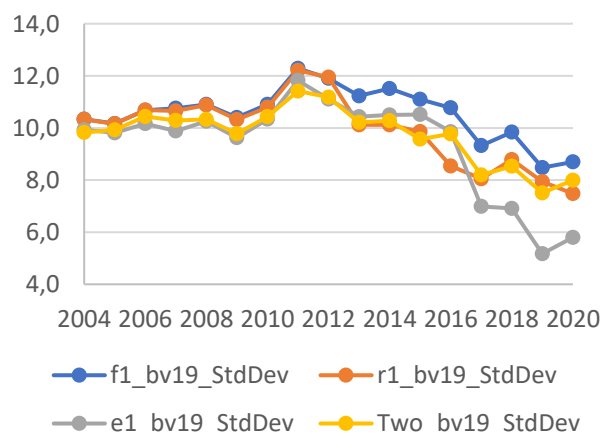
bv19

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	100.7	100.7	100.8	100.0	10.3	10.3	9.9	9.8	1.00	0.98	0.98
2005	334	103.5	103.5	103.2	102.8	10.2	10.2	9.8	9.9	1.00	0.96	0.98
2006	383	102.7	102.7	102.6	102.2	10.7	10.7	10.2	10.4	1.00	0.97	0.98
2007	334	104.1	104.1	104.0	103.4	10.8	10.7	9.9	10.3	1.00	0.95	0.98
2008	293	103.6	103.7	103.3	102.7	10.9	10.9	10.3	10.3	1.00	0.94	0.98
2009	269	101.6	101.7	101.5	100.8	10.4	10.3	9.6	9.8	1.00	0.93	0.97
2010	226	102.2	102.3	102.1	101.5	10.9	10.8	10.3	10.4	0.99	0.93	0.97
2011	167	100.2	100.4	100.4	99.6	12.3	12.2	11.8	11.4	0.99	0.96	0.98
2012	172	102.1	102.7	101.5	101.6	11.9	12.0	11.1	11.2	0.99	0.92	0.99
2013	120	99.9	100.4	99.1	99.4	11.2	10.1	10.4	10.2	0.91	0.94	0.98
2014	104	100.4	101.5	99.8	99.4	11.5	10.1	10.5	10.3	0.90	0.95	0.98
2015	80	100.9	102.1	100.4	99.9	11.1	9.9	10.5	9.6	0.85	0.95	0.98
2016	66	101.8	103.1	101.0	100.2	10.8	8.5	9.9	9.8	0.84	0.92	0.98
2017	65	101.6	103.2	100.6	100.1	9.3	8.0	7.0	8.2	0.93	0.68	0.98
2018	89	101.5	102.7	101.5	100.1	9.8	8.8	6.9	8.5	0.92	0.67	0.97
2019	60	103.3	104.9	101.1	101.8	8.5	7.9	5.2	7.5	0.93	0.41	0.96
2020	27	102.9	103.3	102.4	101.7	8.7	7.5	5.8	8.0	0.92	0.61	0.96

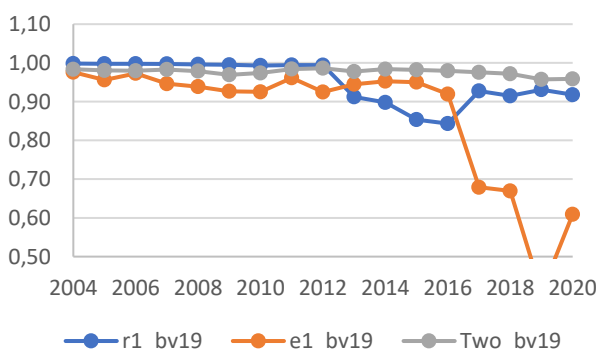
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

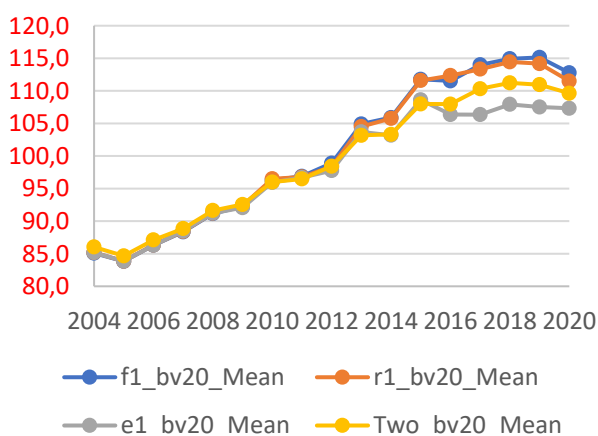


Mælkeafgiftsfonden

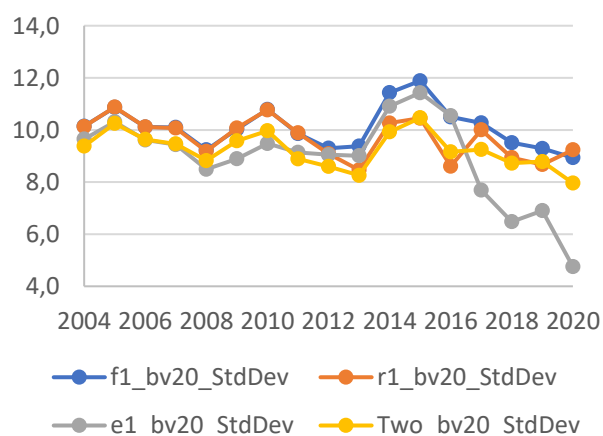
bv20

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	85.1	85.2	85.2	86.0	10.1	10.1	9.6	9.4	1.00	0.99	0.98
2005	334	83.8	83.9	83.9	84.7	10.9	10.9	10.3	10.3	1.00	0.99	0.99
2006	383	86.3	86.3	86.3	87.1	10.1	10.1	9.6	9.6	1.00	0.98	0.98
2007	334	88.4	88.4	88.5	88.9	10.1	10.1	9.4	9.5	1.00	0.95	0.98
2008	293	91.2	91.2	91.2	91.6	9.2	9.2	8.5	8.8	1.00	0.91	0.98
2009	269	92.2	92.4	92.1	92.6	10.0	10.1	8.9	9.6	1.00	0.90	0.98
2010	226	96.3	96.5	96.0	96.0	10.8	10.8	9.5	10.0	1.00	0.92	0.98
2011	167	96.9	96.8	96.7	96.5	9.9	9.9	9.1	8.9	1.00	0.93	0.98
2012	172	98.9	98.4	97.8	98.4	9.3	9.1	9.1	8.6	0.99	0.92	0.98
2013	120	104.9	104.5	103.7	103.2	9.4	8.5	9.0	8.3	0.91	0.95	0.98
2014	104	105.9	105.8	103.2	103.3	11.4	10.3	10.9	9.9	0.93	0.97	0.98
2015	80	111.8	111.6	108.6	108.0	11.9	10.4	11.4	10.5	0.90	0.97	0.99
2016	66	111.5	112.3	106.4	108.0	10.5	8.6	10.5	9.2	0.85	0.93	0.98
2017	65	114.0	113.3	106.4	110.3	10.3	10.0	7.7	9.3	0.96	0.66	0.98
2018	89	114.9	114.4	107.9	111.2	9.5	8.9	6.5	8.7	0.94	0.65	0.98
2019	60	115.1	114.2	107.5	111.0	9.3	8.7	6.9	8.8	0.95	0.50	0.98
2020	27	112.8	111.5	107.3	109.6	8.9	9.2	4.8	8.0	0.95	0.32	0.98

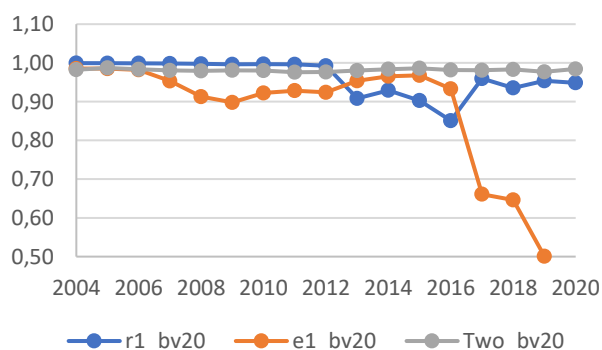
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

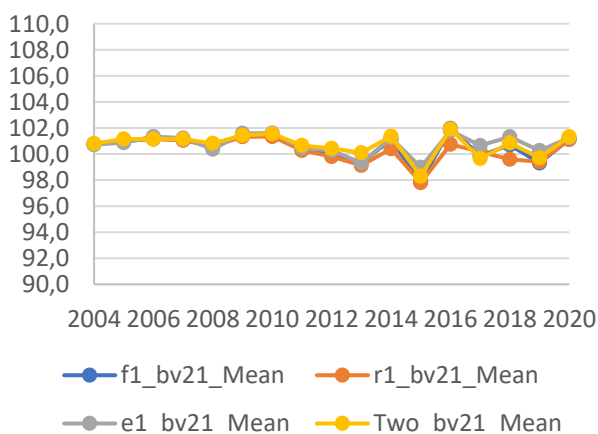


Mælkeafgiftsfonden

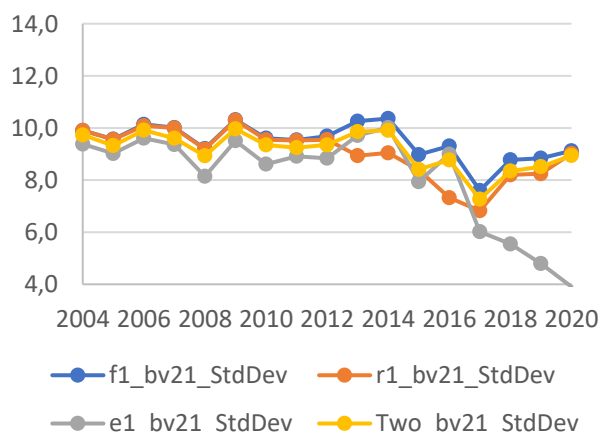
bv21

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	100.8	100.7	100.7	100.8	9.9	9.9	9.4	9.7	1.00	0.99	0.99
2005	334	101.0	101.0	100.9	101.2	9.6	9.6	9.0	9.3	1.00	0.99	0.99
2006	383	101.2	101.2	101.3	101.1	10.1	10.1	9.6	9.9	1.00	0.99	0.99
2007	334	101.1	101.1	101.2	101.1	10.0	10.0	9.4	9.6	1.00	0.97	0.99
2008	293	100.6	100.6	100.4	100.8	9.2	9.2	8.1	8.9	1.00	0.92	0.99
2009	269	101.4	101.3	101.6	101.4	10.3	10.3	9.5	10.0	1.00	0.93	0.99
2010	226	101.4	101.3	101.6	101.5	9.6	9.5	8.6	9.3	1.00	0.93	0.99
2011	167	100.4	100.3	100.5	100.7	9.5	9.5	8.9	9.2	1.00	0.93	0.99
2012	172	100.0	99.8	100.3	100.4	9.7	9.6	8.8	9.4	1.00	0.94	0.99
2013	120	99.3	99.1	99.3	100.1	10.3	8.9	9.7	9.9	0.93	0.97	0.99
2014	104	101.1	100.4	101.2	101.4	10.4	9.0	10.0	9.9	0.92	0.98	0.99
2015	80	97.9	97.8	99.0	98.3	9.0	8.4	7.9	8.4	0.85	0.94	0.99
2016	66	102.0	100.7	101.8	101.9	9.3	7.3	9.0	8.8	0.82	0.94	0.99
2017	65	99.9	100.2	100.7	99.7	7.6	6.8	6.0	7.3	0.91	0.73	0.98
2018	89	100.7	99.6	101.3	100.8	8.8	8.2	5.5	8.3	0.91	0.59	0.98
2019	60	99.3	99.4	100.3	99.7	8.8	8.2	4.8	8.5	0.97	0.53	0.99
2020	27	101.1	101.1	101.2	101.3	9.1	9.0	3.9	8.9	0.97	0.40	0.99

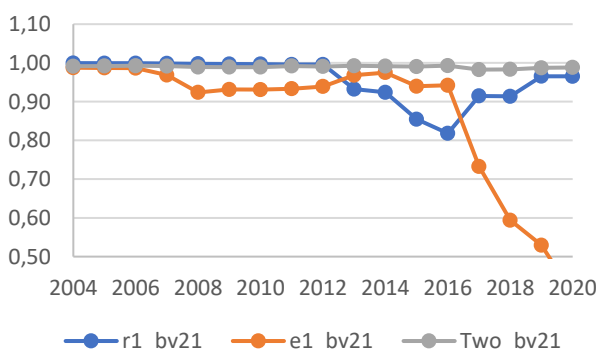
Domestic AI bulls



Domestic AI bulls



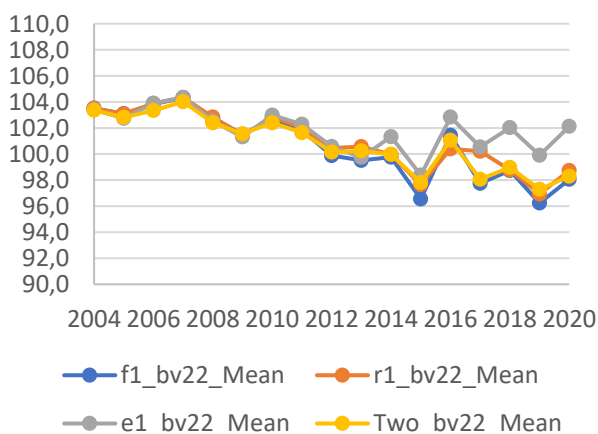
Domestic AI bulls



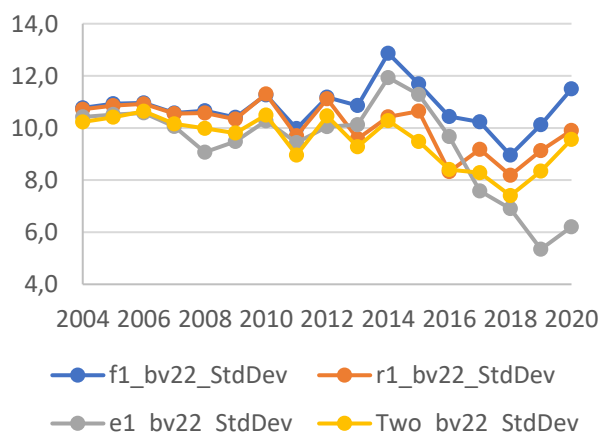
bv22

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	103.5	103.5	103.4	103.4	10.8	10.7	10.4	10.2	1.00	0.99	0.98
2005	334	103.1	103.1	102.7	102.8	10.9	10.9	10.5	10.4	1.00	0.98	0.98
2006	383	103.8	103.9	103.9	103.3	11.0	10.9	10.6	10.6	1.00	0.98	0.98
2007	334	104.3	104.3	104.4	104.0	10.6	10.5	10.1	10.2	1.00	0.96	0.98
2008	293	102.8	102.8	102.5	102.4	10.7	10.6	9.1	10.0	0.99	0.93	0.98
2009	269	101.5	101.4	101.3	101.6	10.4	10.3	9.5	9.8	0.99	0.92	0.98
2010	226	102.7	102.8	103.0	102.4	11.3	11.3	10.3	10.5	0.99	0.93	0.98
2011	167	101.8	102.0	102.3	101.6	10.0	9.7	9.4	9.0	0.99	0.94	0.97
2012	172	99.9	100.5	100.6	100.2	11.2	11.1	10.0	10.5	0.99	0.92	0.97
2013	120	99.5	100.6	99.7	100.2	10.9	9.6	10.1	9.3	0.88	0.96	0.98
2014	104	99.8	100.0	101.3	100.0	12.9	10.4	11.9	10.3	0.92	0.96	0.98
2015	80	96.6	97.6	98.4	97.8	11.7	10.6	11.3	9.5	0.86	0.97	0.99
2016	66	101.4	100.4	102.8	101.1	10.4	8.3	9.7	8.4	0.86	0.92	0.99
2017	65	97.7	100.2	100.5	98.1	10.2	9.2	7.6	8.3	0.93	0.74	0.98
2018	89	98.7	98.8	102.0	99.0	9.0	8.2	6.9	7.4	0.92	0.79	0.97
2019	60	96.2	96.9	99.9	97.3	10.1	9.1	5.3	8.3	0.92	0.56	0.98
2020	27	98.1	98.7	102.1	98.3	11.5	9.9	6.2	9.6	0.93	0.59	0.98

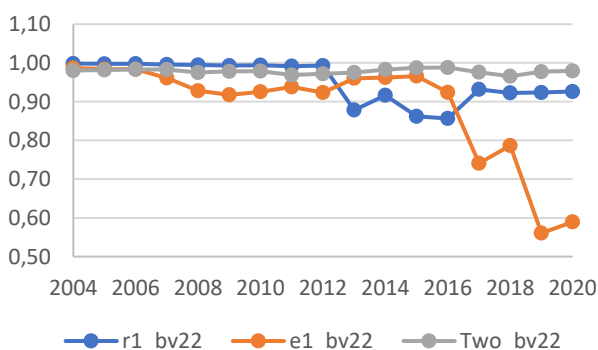
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

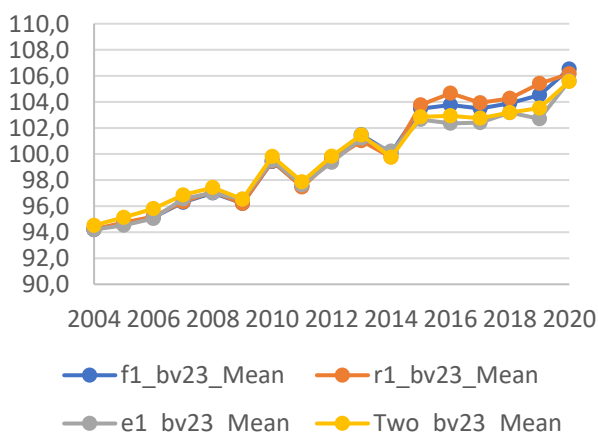


Mælkeafgiftsfonden

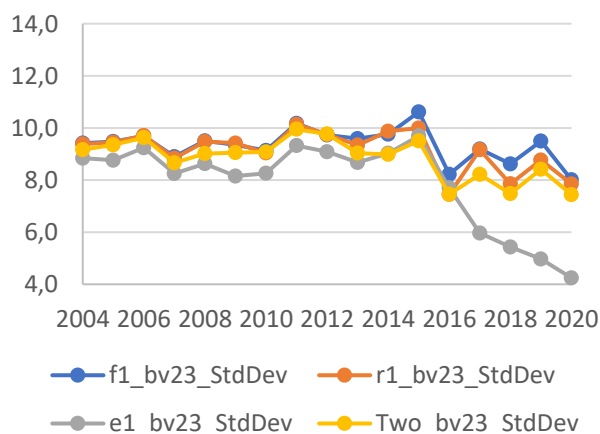
bv23

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	94.2	94.2	94.2	94.5	9.4	9.4	8.8	9.2	1.00	0.98	0.99
2005	334	94.7	94.7	94.5	95.1	9.5	9.4	8.8	9.4	1.00	0.98	0.98
2006	383	95.1	95.2	95.1	95.8	9.7	9.7	9.2	9.6	1.00	0.98	0.98
2007	334	96.3	96.3	96.6	96.9	8.9	8.8	8.3	8.7	1.00	0.94	0.98
2008	293	97.0	97.1	97.0	97.4	9.5	9.5	8.6	9.0	1.00	0.94	0.98
2009	269	96.2	96.2	96.5	96.5	9.4	9.4	8.2	9.1	1.00	0.91	0.98
2010	226	99.4	99.5	99.5	99.8	9.1	9.0	8.3	9.1	1.00	0.93	0.98
2011	167	97.5	97.5	97.6	97.9	10.2	10.1	9.3	9.9	1.00	0.95	0.98
2012	172	99.7	99.5	99.4	99.8	9.7	9.7	9.1	9.8	1.00	0.95	0.98
2013	120	101.5	101.0	101.2	101.5	9.6	9.3	8.7	9.0	0.92	0.94	0.98
2014	104	100.1	99.8	100.2	99.7	9.8	9.9	9.0	9.0	0.90	0.95	0.98
2015	80	103.5	103.8	102.6	102.8	10.6	10.0	9.7	9.5	0.91	0.95	0.98
2016	66	103.8	104.7	102.4	102.9	8.2	7.5	7.7	7.5	0.87	0.95	0.97
2017	65	103.5	103.9	102.4	102.7	9.2	9.2	6.0	8.2	0.96	0.68	0.97
2018	89	103.9	104.3	103.2	103.2	8.6	7.9	5.4	7.5	0.95	0.58	0.98
2019	60	104.5	105.4	102.7	103.5	9.5	8.8	5.0	8.4	0.97	0.68	0.98
2020	27	106.5	106.1	105.6	105.6	8.0	7.9	4.2	7.4	0.94	0.65	0.95

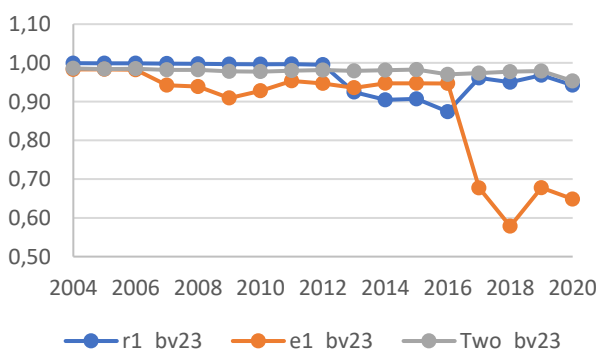
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

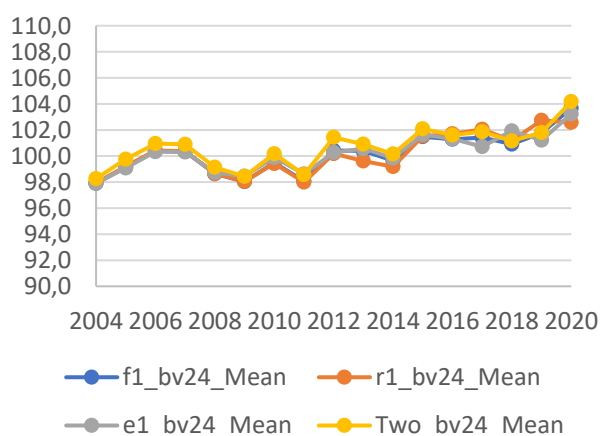


Mælkeafgiftsfonden

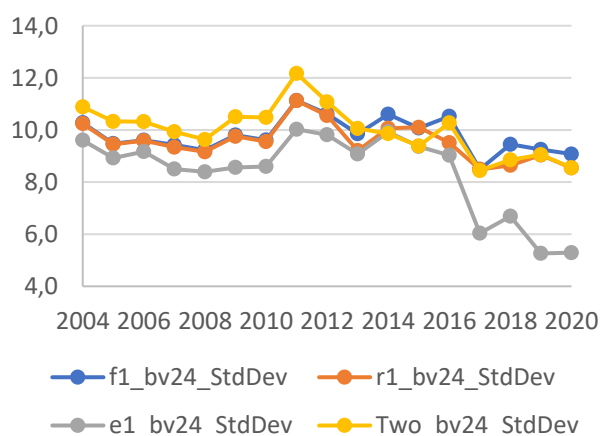
bv24

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	97.9	97.9	97.9	98.3	10.3	10.2	9.6	10.9	1.00	0.99	0.99
2005	334	99.2	99.2	99.1	99.8	9.5	9.5	8.9	10.3	1.00	0.97	0.98
2006	383	100.4	100.4	100.3	101.0	9.6	9.6	9.2	10.3	1.00	0.97	0.98
2007	334	100.3	100.4	100.3	100.9	9.4	9.3	8.5	9.9	1.00	0.95	0.98
2008	293	98.6	98.6	98.7	99.1	9.2	9.2	8.4	9.6	1.00	0.92	0.97
2009	269	98.0	98.0	98.5	98.4	9.8	9.8	8.6	10.5	1.00	0.92	0.97
2010	226	99.5	99.4	99.9	100.2	9.6	9.6	8.6	10.5	1.00	0.92	0.97
2011	167	98.1	98.0	98.6	98.6	11.1	11.1	10.0	12.2	1.00	0.95	0.98
2012	172	100.4	100.2	100.3	101.4	10.6	10.6	9.8	11.1	1.00	0.92	0.98
2013	120	100.4	99.6	100.6	100.9	9.9	9.2	9.1	10.1	0.93	0.94	0.98
2014	104	99.6	99.2	99.8	100.2	10.6	10.1	9.9	9.9	0.92	0.97	0.98
2015	80	101.5	101.5	101.6	102.1	10.1	10.1	9.4	9.4	0.87	0.95	0.98
2016	66	101.3	101.7	101.3	101.6	10.5	9.5	9.0	10.3	0.91	0.91	0.98
2017	65	101.4	102.0	100.7	101.9	8.5	8.5	6.0	8.4	0.96	0.64	0.97
2018	89	100.9	101.2	101.9	101.2	9.4	8.6	6.7	8.9	0.96	0.73	0.97
2019	60	101.8	102.7	101.2	101.8	9.3	9.0	5.3	9.0	0.97	0.60	0.98
2020	27	103.7	102.6	103.2	104.2	9.1	8.5	5.3	8.5	0.95	0.82	0.98

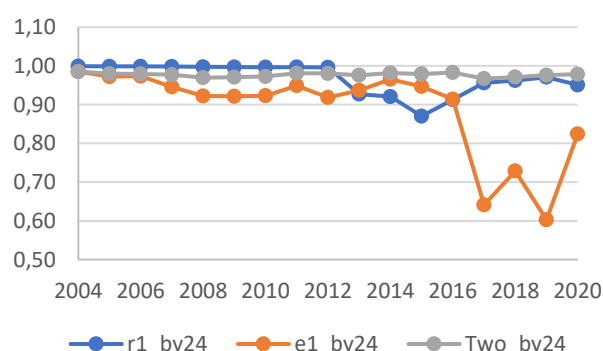
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

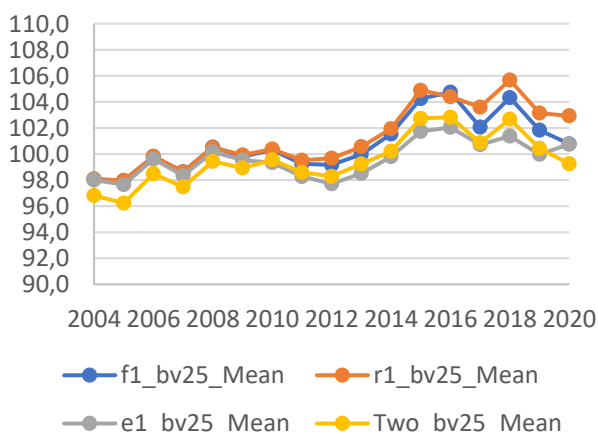


Mælkeafgiftsfonden

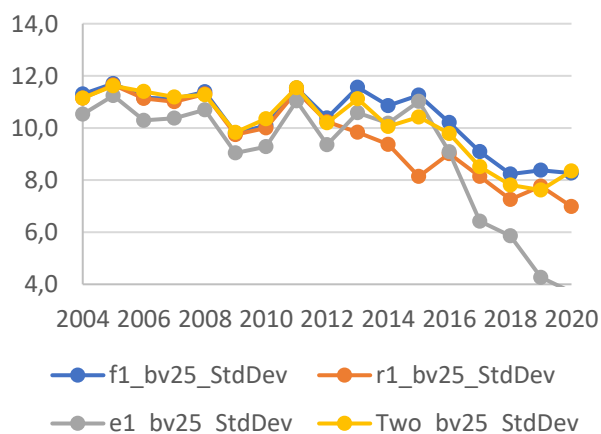
bv25

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	307	98.1	98.1	98.0	96.8	11.3	11.1	10.5	11.1	1.00	0.98	0.98
2005	334	98.0	98.0	97.7	96.2	11.7	11.6	11.2	11.6	1.00	0.98	0.98
2006	383	99.8	99.8	99.6	98.5	11.2	11.1	10.3	11.4	1.00	0.96	0.98
2007	334	98.6	98.6	98.3	97.5	11.1	11.0	10.4	11.2	1.00	0.95	0.98
2008	293	100.5	100.5	100.2	99.4	11.4	11.3	10.7	11.3	1.00	0.95	0.98
2009	269	99.8	99.9	99.5	98.9	9.8	9.7	9.0	9.8	0.99	0.91	0.97
2010	226	100.3	100.4	99.3	99.6	10.1	10.0	9.3	10.4	0.99	0.93	0.98
2011	167	99.2	99.5	98.3	98.6	11.5	11.4	11.0	11.5	0.99	0.95	0.98
2012	172	99.2	99.7	97.7	98.3	10.4	10.2	9.4	10.2	0.99	0.90	0.98
2013	120	100.0	100.6	98.5	99.2	11.6	9.8	10.6	11.1	0.89	0.93	0.98
2014	104	101.5	101.9	99.8	100.2	10.9	9.4	10.2	10.1	0.86	0.93	0.98
2015	80	104.3	104.9	101.7	102.7	11.3	8.1	11.0	10.4	0.86	0.96	0.99
2016	66	104.7	104.4	102.0	102.8	10.2	9.0	9.1	9.8	0.82	0.93	0.98
2017	65	102.1	103.6	100.7	100.9	9.1	8.1	6.4	8.5	0.90	0.60	0.97
2018	89	104.3	105.7	101.4	102.7	8.2	7.3	5.9	7.8	0.86	0.67	0.97
2019	60	101.8	103.1	100.0	100.4	8.4	7.8	4.3	7.6	0.93	0.44	0.97
2020	27	100.8	102.9	100.8	99.3	8.3	7.0	3.7	8.3	0.93	0.48	0.96

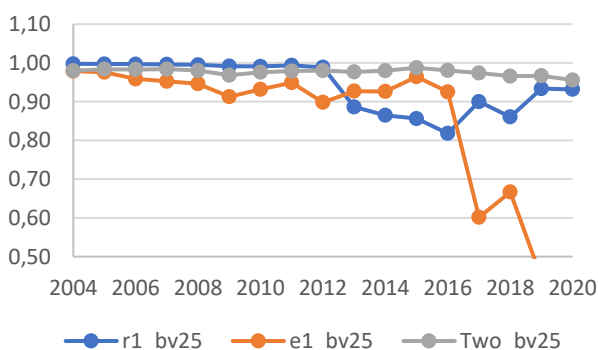
Domestic AI bulls



Domestic AI bulls



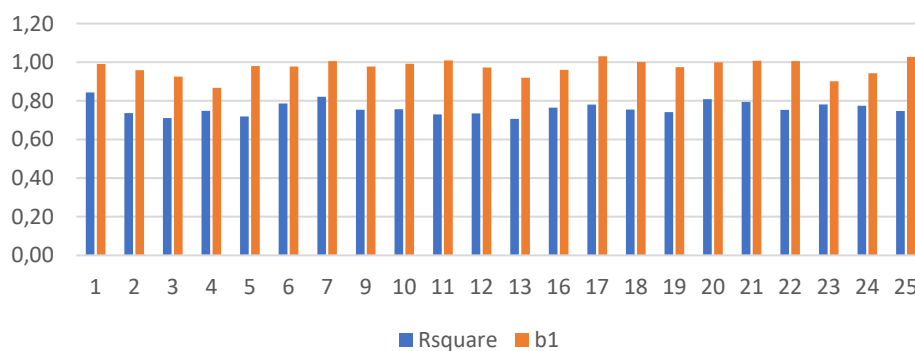
Domestic AI bulls



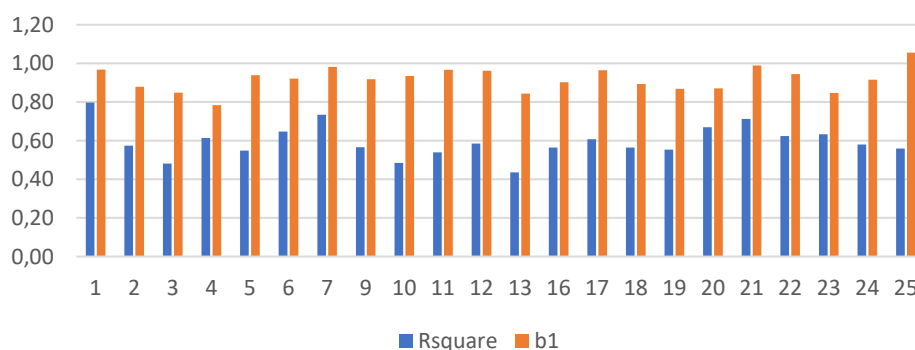
HOL Interbull validation and Legarra Reverter regression

Trait nr	LR		Interbull		Interbull pedigree	
	Rsquare	b1	Rsquare	b1	Rsquare	b1
1	0.84	0.99	0.80	0.97	0.35	0.98
2	0.74	0.96	0.57	0.88	0.23	0.96
3	0.71	0.93	0.48	0.85	0.19	0.89
4	0.75	0.87	0.61	0.78	0.31	0.94
5	0.72	0.98	0.55	0.94	0.26	1.08
6	0.79	0.98	0.65	0.92	0.23	0.88
7	0.82	1.01	0.73	0.98	0.23	0.99
9	0.75	0.98	0.57	0.92	0.18	0.86
10	0.76	0.99	0.48	0.93	0.22	0.99
11	0.73	1.01	0.54	0.97	0.26	1.05
12	0.74	0.97	0.59	0.96	0.33	1.13
13	0.71	0.92	0.44	0.84	0.18	0.99
16	0.76	0.96	0.56	0.90	0.23	1.05
17	0.78	1.03	0.61	0.96	0.27	1.02
18	0.75	1.00	0.56	0.89	0.32	1.13
19	0.74	0.97	0.55	0.87	0.27	0.98
20	0.81	1.00	0.67	0.87	0.18	0.81
21	0.79	1.01	0.71	0.99	0.31	1.10
22	0.75	1.01	0.62	0.94	0.30	1.11
23	0.78	0.90	0.63	0.85	0.23	0.80
24	0.77	0.94	0.58	0.92	0.24	0.88
25	0.75	1.03	0.56	1.06	0.19	0.95

Legarra Reverter



Interbull



RDC

Cows

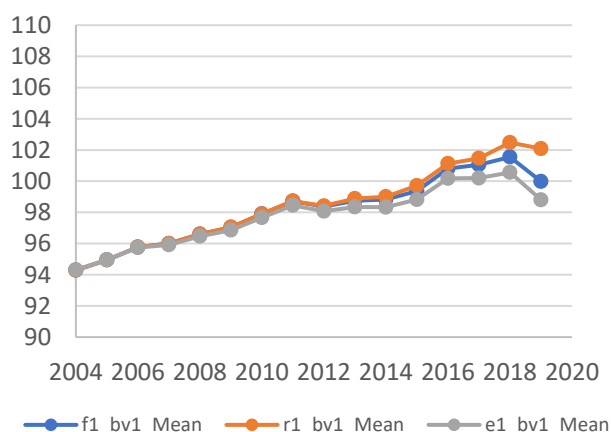
Trend (mean and SD)

Mælkeafgiftsfonden

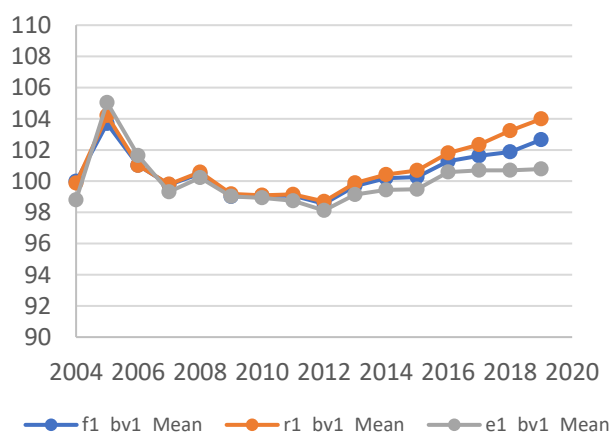
bv1

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27480	94.3	94.3	94.3	9.8	9.8	9.8	8	100.0	99.9	98.8	8.4	8.1	7.7
2005	26457	95.0	94.9	95.0	9.5	9.5	9.5	34	103.7	104.2	105.0	7.8	7.9	9.2
2006	26693	95.8	95.8	95.7	9.5	9.5	9.5	52	101.0	101.0	101.6	8.7	8.8	8.4
2007	25227	96.0	96.0	95.9	9.3	9.3	9.3	101	99.8	99.8	99.3	8.9	9.0	9.0
2008	26501	96.6	96.6	96.5	9.1	9.1	9.1	166	100.5	100.6	100.2	9.2	9.3	9.0
2009	27328	97.0	97.0	96.9	9.0	9.0	9.0	292	99.0	99.2	99.0	8.7	8.8	8.4
2010	23363	97.9	97.9	97.7	9.2	9.2	9.2	2203	99.1	99.1	98.9	10.1	10.1	9.8
2011	21872	98.7	98.7	98.4	9.0	9.0	9.0	3405	99.1	99.1	98.7	9.6	9.5	9.2
2012	19392	98.4	98.4	98.1	9.1	9.0	9.0	3457	98.5	98.7	98.1	9.4	9.3	8.9
2013	21079	98.7	98.9	98.3	9.0	9.0	9.0	3744	99.7	99.9	99.1	9.6	9.5	9.2
2014	20086	98.8	99.0	98.3	9.0	9.0	9.0	3941	100.2	100.4	99.4	9.5	9.5	9.1
2015	17002	99.4	99.7	98.8	8.9	7.9	8.9	4965	100.3	100.7	99.5	9.4	8.9	8.9
2016	14023	100.8	101.1	100.2	8.9	6.6	8.9	6708	101.3	101.8	100.6	9.5	8.3	9.1
2017	10877	101.1	101.5	100.2	8.9	6.1	8.9	6834	101.6	102.3	100.7	9.4	8.3	8.9
2018	6028	101.5	102.5	100.6	8.7	5.6	8.7	5448	101.9	103.2	100.7	9.1	7.7	8.8
2019	115	100.0	102.1	98.8	7.8	4.5	7.6	172	102.7	104.0	100.8	8.8	7.2	8.7

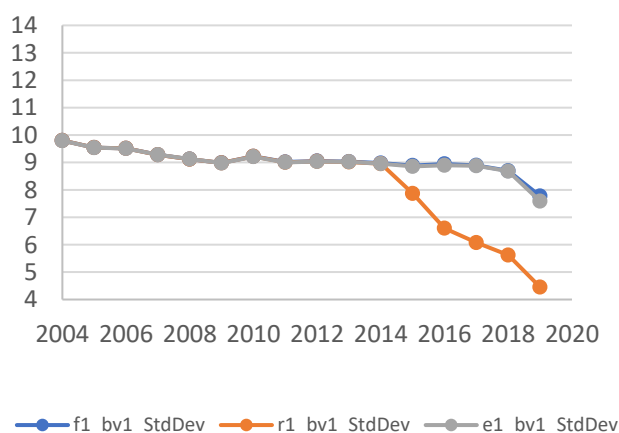
Non genotyped females with records



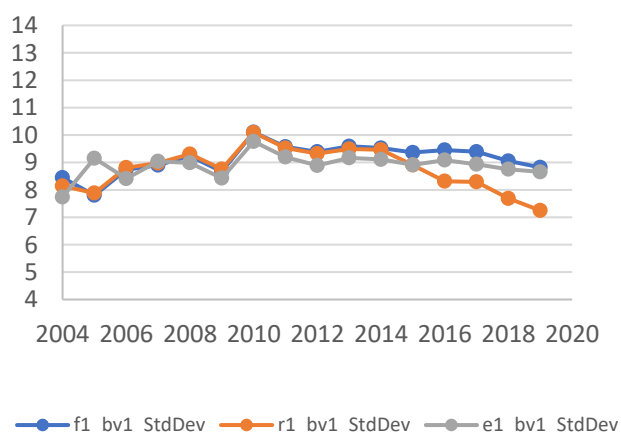
Genotyped females with records



Non genotyped females with records



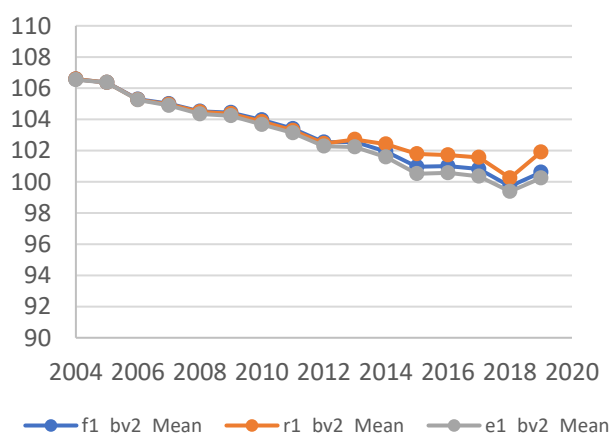
Genotyped females with records



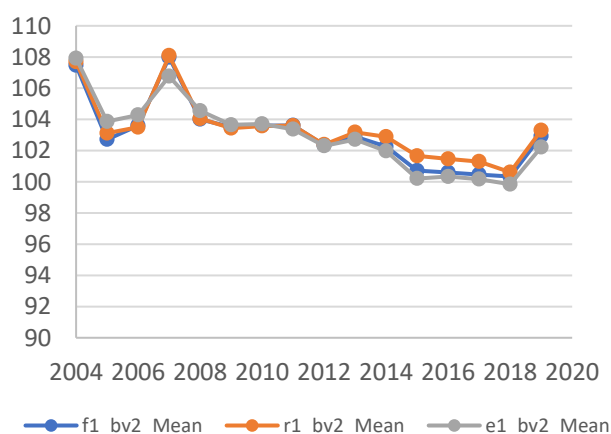
bv2

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27489	106.6	106.6	106.5	8.3	8.3	8.3	8	107.5	107.7	107.9	7.2	7.5	7.4
2005	26460	106.4	106.4	106.4	8.7	8.7	8.7	34	102.7	103.1	103.9	10.2	9.8	8.1
2006	26696	105.3	105.3	105.2	8.3	8.3	8.3	52	103.6	103.5	104.3	9.8	9.6	7.2
2007	25229	105.0	105.0	104.9	8.6	8.6	8.6	101	108.0	108.1	106.8	9.3	9.4	8.5
2008	26502	104.5	104.5	104.3	8.8	8.8	8.7	166	104.0	104.1	104.6	8.6	8.5	7.6
2009	27329	104.4	104.4	104.2	8.4	8.4	8.4	292	103.5	103.4	103.7	9.5	9.2	7.5
2010	23364	104.0	103.9	103.7	8.3	8.3	8.3	2203	103.6	103.6	103.7	9.9	9.8	8.2
2011	21871	103.4	103.3	103.1	8.1	8.1	8.0	3405	103.6	103.6	103.4	9.6	9.5	8.1
2012	19392	102.5	102.5	102.3	8.5	8.5	8.5	3458	102.3	102.4	102.3	9.9	9.7	8.5
2013	21083	102.6	102.7	102.2	8.1	8.1	8.1	3744	102.9	103.2	102.7	9.7	9.4	8.2
2014	20090	101.9	102.4	101.6	8.4	8.4	8.3	3941	102.3	102.9	102.0	10.0	9.7	8.6
2015	17004	101.0	101.8	100.5	8.3	7.6	8.2	4966	100.7	101.7	100.2	9.8	9.1	8.2
2016	14022	101.0	101.7	100.6	8.5	6.8	8.3	6708	100.6	101.5	100.3	9.9	8.7	8.4
2017	10879	100.8	101.6	100.4	7.9	6.1	7.8	6834	100.5	101.3	100.2	9.5	8.1	7.9
2018	6028	99.7	100.2	99.4	8.6	6.1	8.5	5448	100.3	100.6	99.8	10.0	8.1	8.5
2019	115	100.6	101.9	100.2	8.6	5.3	8.4	172	102.9	103.3	102.2	9.3	7.3	8.0

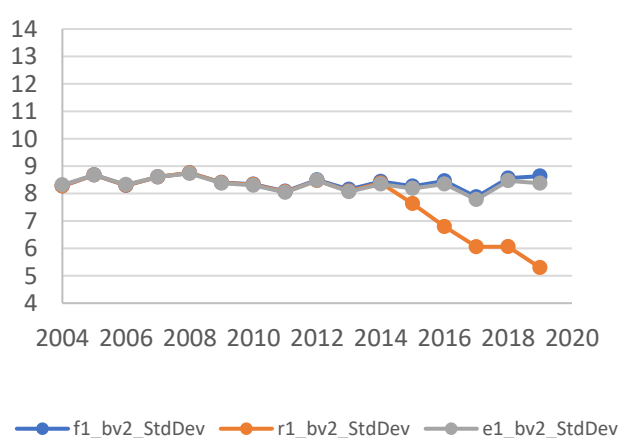
Non genotyped females with records



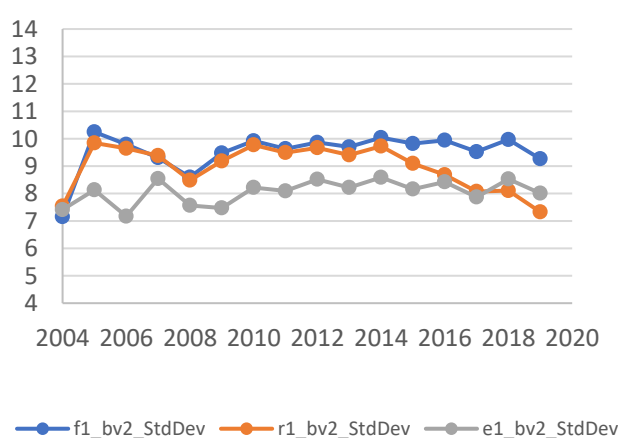
Genotyped females with records



Non genotyped females with records



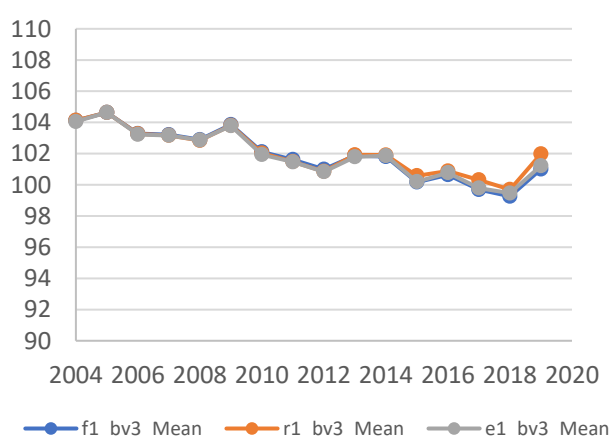
Genotyped females with records



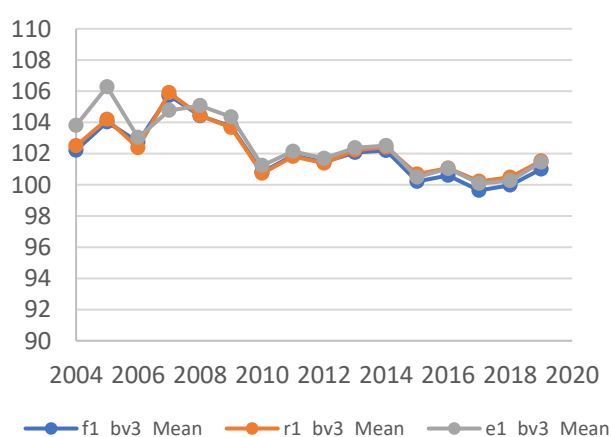
bv3

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27489	104.1	104.1	104.1	7.2	7.2	7.3	8	102.2	102.5	103.8	7.6	6.7	4.7
2005	26459	104.6	104.6	104.6	7.8	7.8	7.8	34	104.0	104.2	106.3	10.9	10.7	9.5
2006	26695	103.3	103.3	103.2	7.1	7.1	7.1	52	102.7	102.4	103.0	8.5	8.0	7.0
2007	25229	103.2	103.2	103.2	7.5	7.5	7.5	101	105.7	105.9	104.8	10.0	10.0	8.2
2008	26503	102.9	102.8	102.9	8.1	8.2	8.1	166	104.4	104.4	105.1	9.5	9.4	8.0
2009	27329	103.9	103.8	103.8	8.7	8.8	8.7	292	103.8	103.7	104.4	10.6	10.5	9.0
2010	23363	102.1	102.0	101.9	8.3	8.3	8.3	2203	100.8	100.7	101.2	10.3	10.1	8.4
2011	21871	101.6	101.5	101.5	7.9	7.9	7.9	3405	101.9	101.8	102.1	10.0	9.8	8.2
2012	19392	101.0	100.9	100.8	8.4	8.5	8.4	3458	101.4	101.4	101.7	10.4	10.2	8.7
2013	21083	101.9	101.9	101.8	8.2	8.3	8.1	3744	102.1	102.2	102.4	10.1	9.8	8.3
2014	20090	101.8	101.9	101.9	8.4	8.4	8.3	3941	102.2	102.4	102.5	10.2	10.0	8.5
2015	17004	100.2	100.6	100.2	8.2	7.7	8.1	4966	100.2	100.7	100.5	10.3	9.5	8.2
2016	14022	100.6	100.9	100.8	8.0	7.5	7.9	6708	100.6	101.1	101.0	9.8	9.2	7.9
2017	10878	99.7	100.3	99.8	7.9	6.3	7.8	6834	99.6	100.2	100.1	9.8	8.2	7.9
2018	6027	99.3	99.7	99.5	8.5	6.6	8.5	5448	100.0	100.5	100.3	10.3	8.7	8.4
2019	115	101.0	102.0	101.2	7.4	5.2	7.2	172	101.0	101.5	101.4	9.4	7.6	7.9

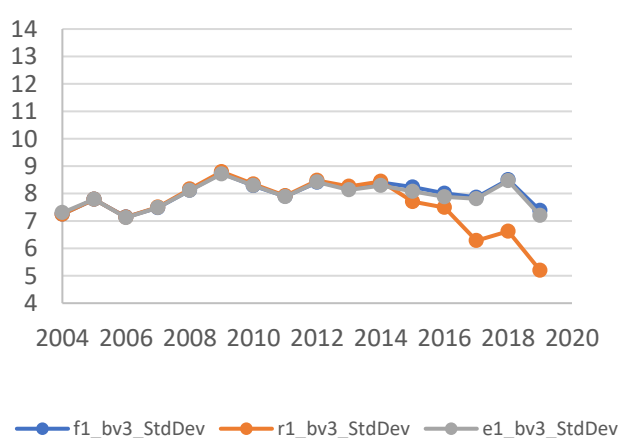
Non genotyped females with records



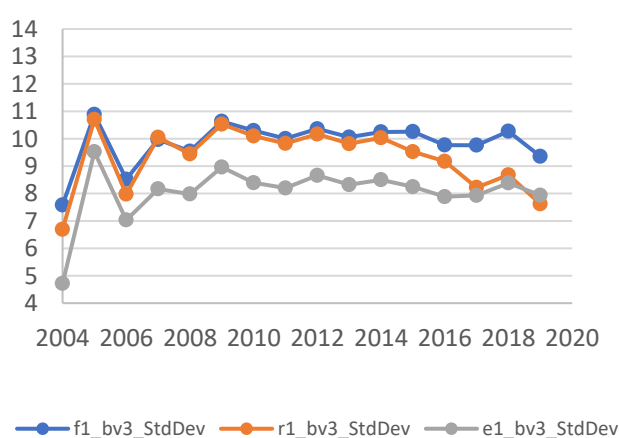
Genotyped females with records



Non genotyped females with records



Genotyped females with records

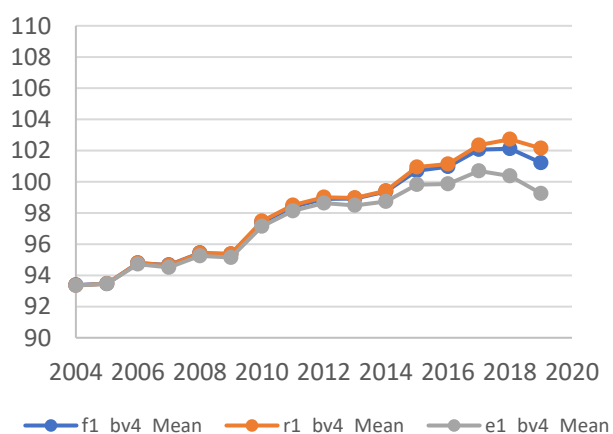


Mælkeafgiftsfonden

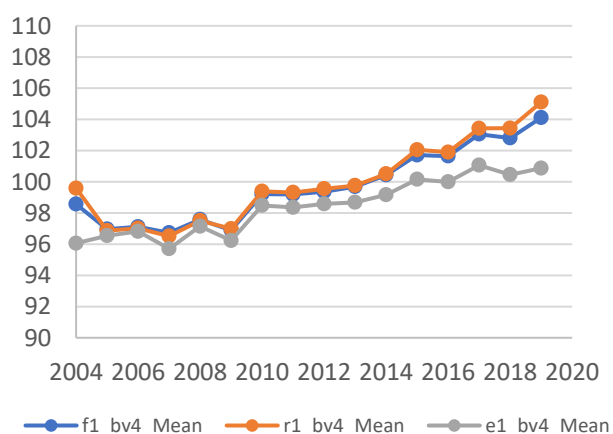
bv4

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27487	93.4	93.4	93.3	6.0	6.0	6.0	8	98.6	99.6	96.1	7.6	7.9	5.5
2005	26457	93.5	93.5	93.5	6.5	6.5	6.5	34	97.0	96.9	96.5	6.3	6.4	6.1
2006	26695	94.8	94.8	94.7	5.8	5.8	5.8	52	97.1	97.0	96.8	7.0	7.1	5.5
2007	25227	94.7	94.6	94.5	5.7	5.7	5.7	101	96.7	96.5	95.7	6.6	6.6	5.3
2008	26502	95.4	95.4	95.2	5.5	5.5	5.5	166	97.6	97.5	97.1	6.3	6.5	5.4
2009	27329	95.4	95.4	95.1	5.5	5.6	5.5	292	96.9	97.0	96.2	6.5	6.5	5.2
2010	23364	97.4	97.5	97.1	5.9	5.9	5.8	2203	99.2	99.4	98.5	7.0	7.1	6.0
2011	21871	98.4	98.5	98.1	5.9	6.0	5.8	3405	99.2	99.3	98.4	6.7	6.8	5.7
2012	19392	98.9	99.0	98.6	5.7	5.7	5.6	3458	99.4	99.6	98.6	6.5	6.6	5.5
2013	21083	98.9	99.0	98.5	5.7	5.7	5.6	3744	99.7	99.8	98.7	6.6	6.7	5.6
2014	20090	99.4	99.4	98.7	5.4	5.5	5.3	3941	100.4	100.5	99.2	6.4	6.4	5.2
2015	17004	100.7	100.9	99.8	5.4	5.4	5.2	4966	101.7	102.1	100.2	6.4	6.4	5.2
2016	14022	101.0	101.1	99.9	4.9	4.5	4.8	6708	101.6	101.9	100.0	6.0	5.8	4.7
2017	10878	102.1	102.3	100.7	4.8	4.7	4.7	6834	103.1	103.4	101.1	5.9	5.9	4.6
2018	6027	102.1	102.7	100.4	4.5	4.0	4.4	5447	102.8	103.4	100.5	5.7	5.4	4.4
2019	115	101.2	102.2	99.3	4.9	4.3	4.5	172	104.1	105.1	100.9	5.6	5.4	4.3

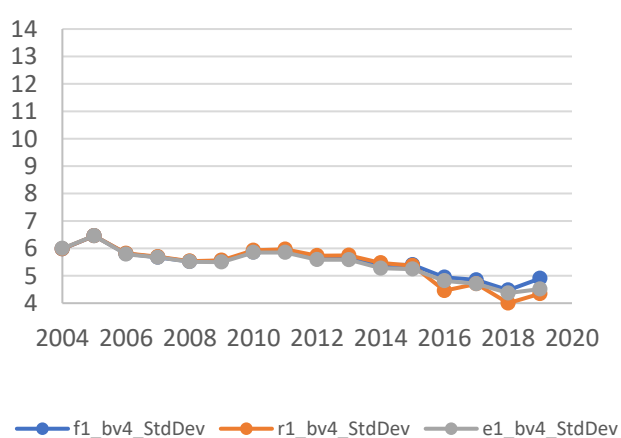
Non genotyped females with records



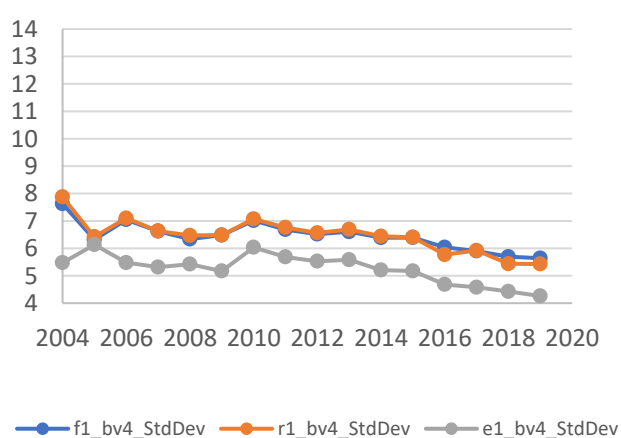
Genotyped females with records



Non genotyped females with records



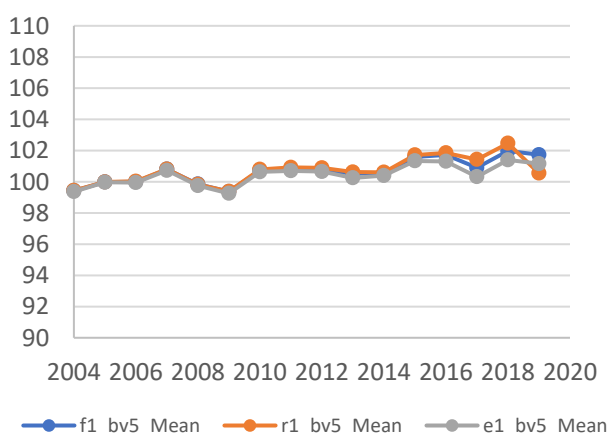
Genotyped females with records



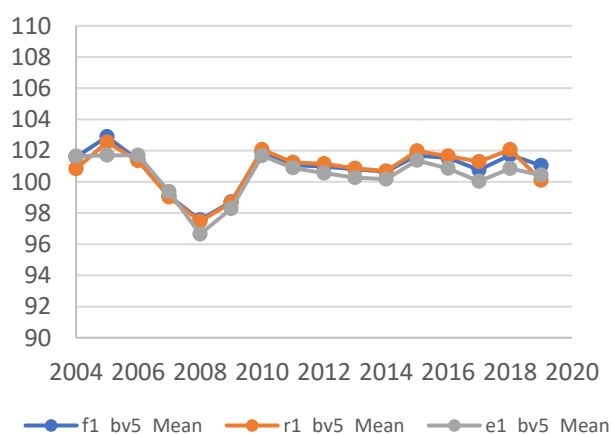
bv5

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27483	99.4	99.4	99.4	7.6	7.6	7.6	8	101.6	100.8	101.6	7.2	7.4	7.4
2005	26458	100.0	100.0	100.0	7.3	7.3	7.3	34	102.9	102.5	101.7	8.8	8.2	6.7
2006	26695	100.0	100.0	99.9	7.9	7.9	7.9	52	101.4	101.3	101.7	7.1	7.4	5.6
2007	25229	100.8	100.8	100.7	7.3	7.3	7.3	101	99.1	99.0	99.4	10.2	9.9	8.3
2008	26503	99.9	99.8	99.8	7.5	7.5	7.5	166	97.6	97.5	96.6	8.7	8.6	7.3
2009	27329	99.4	99.4	99.3	7.6	7.6	7.6	292	98.7	98.7	98.3	8.5	8.4	7.4
2010	23363	100.7	100.8	100.6	8.1	8.1	8.1	2203	101.9	102.1	101.7	9.8	9.7	8.5
2011	21871	100.8	100.9	100.7	7.9	7.9	7.9	3405	101.1	101.2	100.9	9.3	9.2	8.1
2012	19393	100.8	100.9	100.7	7.4	7.4	7.4	3458	101.0	101.2	100.6	8.9	8.6	7.2
2013	21083	100.5	100.6	100.3	7.2	7.1	7.1	3744	100.8	100.9	100.3	8.5	8.3	7.2
2014	20090	100.6	100.6	100.4	7.5	7.4	7.4	3941	100.7	100.7	100.2	8.8	8.5	7.4
2015	17004	101.6	101.7	101.3	7.5	7.1	7.5	4966	101.7	102.0	101.4	8.7	8.2	7.2
2016	14021	101.7	101.9	101.3	7.8	6.5	7.7	6708	101.5	101.6	100.9	8.9	7.9	7.6
2017	10878	100.9	101.4	100.3	7.5	6.6	7.4	6834	100.8	101.3	100.0	8.5	8.0	7.0
2018	6027	102.0	102.5	101.4	6.9	5.5	6.9	5447	101.7	102.1	100.9	8.3	7.3	6.7
2019	115	101.7	100.5	101.2	6.3	4.7	6.5	172	101.0	100.1	100.4	8.1	6.9	6.5

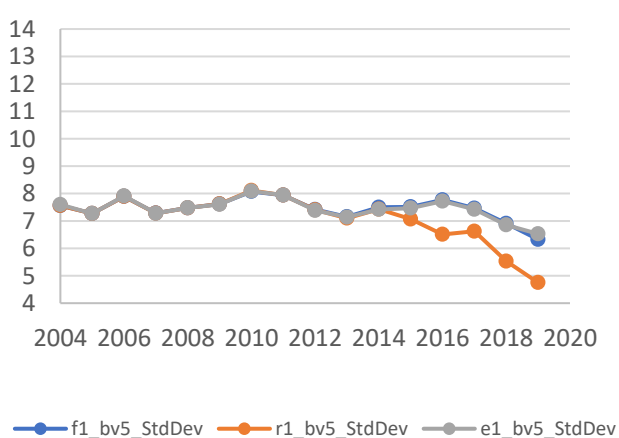
Non genotyped females with records



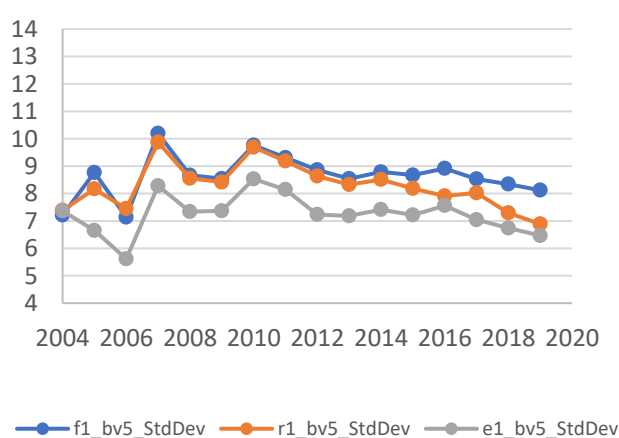
Genotyped females with records



Non genotyped females with records



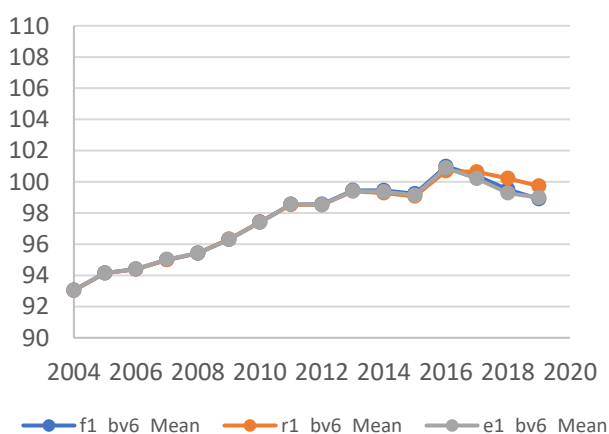
Genotyped females with records



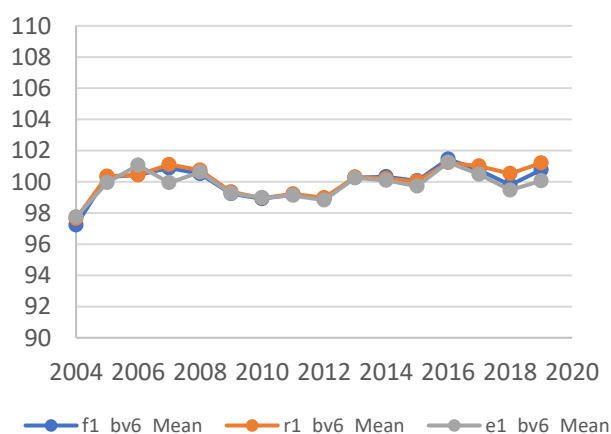
bv6

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27480	93.0	93.0	93.0	8.5	8.5	8.5	8	97.2	97.6	97.7	8.9	9.3	7.3
2005	26456	94.1	94.1	94.1	8.4	8.4	8.4	34	100.3	100.4	99.9	9.2	8.6	9.7
2006	26692	94.4	94.4	94.4	9.1	9.1	9.0	52	100.4	100.4	101.1	9.3	9.5	9.4
2007	25222	95.0	95.0	95.0	9.4	9.4	9.4	101	100.9	101.1	99.9	9.7	10.0	9.2
2008	26500	95.4	95.4	95.4	9.2	9.2	9.2	166	100.5	100.7	100.6	9.6	9.6	9.1
2009	27329	96.3	96.3	96.3	9.1	9.1	9.1	292	99.2	99.4	99.3	10.9	10.8	9.7
2010	23363	97.4	97.4	97.4	9.5	9.5	9.4	2203	98.9	99.0	99.0	10.9	10.7	9.6
2011	21870	98.5	98.5	98.6	9.0	9.0	8.9	3405	99.2	99.2	99.1	10.3	10.2	9.1
2012	19392	98.6	98.5	98.5	8.9	8.9	8.9	3458	98.9	99.0	98.8	10.2	10.0	9.0
2013	21083	99.4	99.4	99.4	9.4	9.4	9.4	3744	100.3	100.3	100.2	10.9	10.7	9.5
2014	20090	99.4	99.3	99.4	9.6	9.5	9.5	3941	100.3	100.2	100.1	10.8	10.6	9.5
2015	17004	99.2	99.1	99.1	9.2	8.6	9.1	4966	100.1	100.0	99.7	10.4	10.1	9.0
2016	14022	101.0	100.7	100.9	9.1	7.1	9.0	6708	101.5	101.2	101.2	10.3	9.1	9.0
2017	10878	100.4	100.6	100.2	8.3	6.0	8.2	6834	100.7	101.0	100.5	9.6	8.4	8.3
2018	6026	99.5	100.2	99.3	8.3	5.8	8.2	5447	99.8	100.5	99.5	9.5	8.2	8.1
2019	115	98.9	99.7	99.0	7.1	5.0	7.1	172	100.8	101.2	100.1	8.9	8.0	7.8

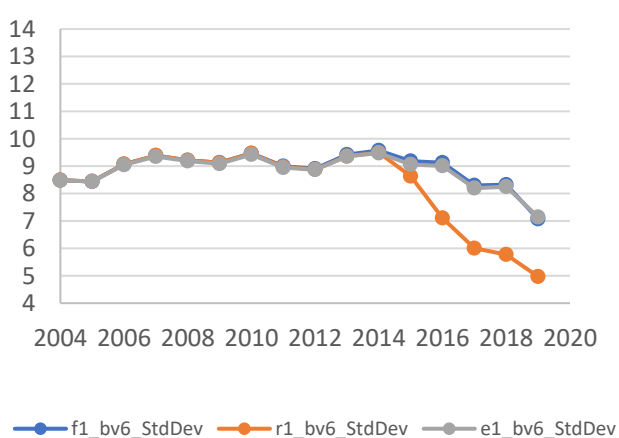
Non genotyped females with records



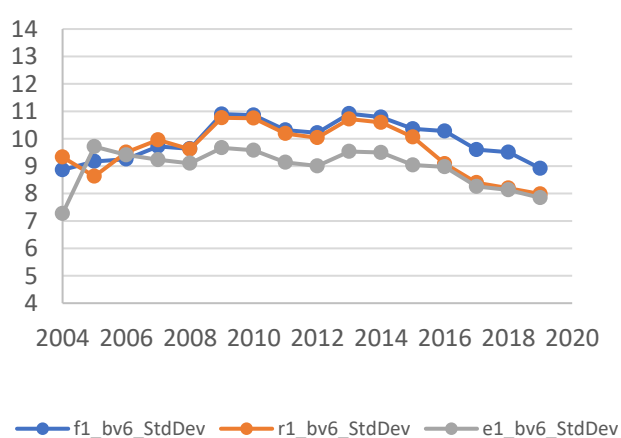
Genotyped females with records



Non genotyped females with records



Genotyped females with records

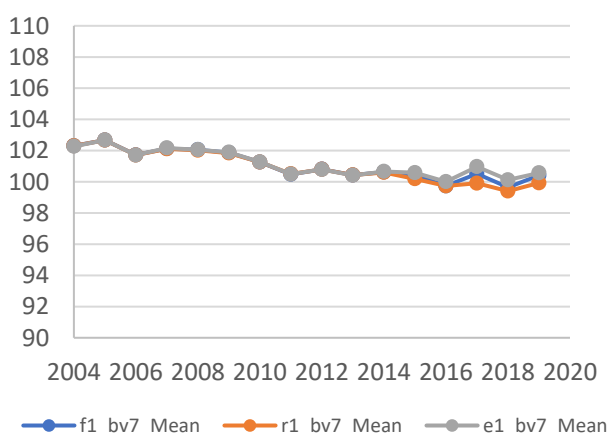


Mælkeafgiftsfonden

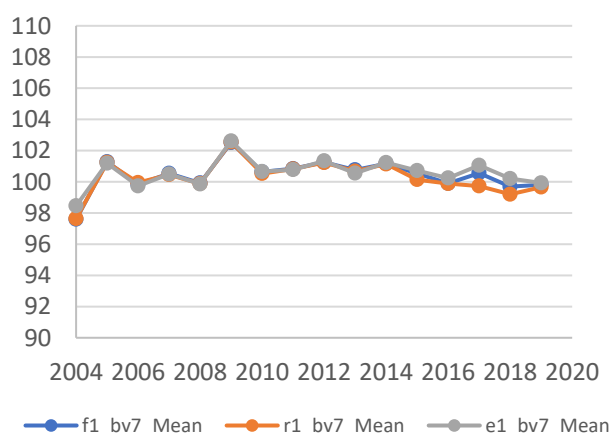
bv7

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27490	102.3	102.3	102.3	7.6	7.6	7.6	8	97.6	97.6	98.5	7.0	6.9	5.8
2005	26459	102.7	102.7	102.7	8.0	8.0	8.0	34	101.3	101.2	101.2	8.9	8.9	8.1
2006	26696	101.7	101.7	101.7	7.3	7.3	7.3	52	99.8	99.9	99.7	8.7	8.7	7.8
2007	25228	102.1	102.1	102.2	7.5	7.5	7.5	101	100.5	100.5	100.5	8.4	8.2	7.2
2008	26502	102.1	102.0	102.1	7.6	7.6	7.6	166	99.9	99.9	99.9	8.5	8.4	7.3
2009	27329	101.9	101.8	101.9	7.3	7.2	7.2	292	102.5	102.6	102.6	8.1	8.0	6.7
2010	23364	101.3	101.3	101.3	7.2	7.2	7.1	2203	100.6	100.5	100.7	8.3	8.0	6.8
2011	21870	100.5	100.5	100.5	7.0	7.0	7.0	3405	100.8	100.8	100.8	8.4	8.2	6.9
2012	19392	100.8	100.8	100.8	6.9	6.9	6.9	3458	101.2	101.2	101.3	8.3	8.1	6.7
2013	21083	100.4	100.4	100.4	7.3	7.2	7.2	3744	100.8	100.7	100.5	8.5	8.2	7.1
2014	20090	100.6	100.6	100.7	7.3	7.2	7.3	3941	101.2	101.1	101.2	8.3	8.0	6.9
2015	17004	100.4	100.2	100.6	7.0	6.4	6.9	4966	100.5	100.1	100.7	8.4	7.7	6.8
2016	14022	99.7	99.7	100.0	7.3	6.0	7.2	6708	99.9	99.9	100.2	8.6	7.5	7.1
2017	10879	100.5	99.9	101.0	6.3	4.8	6.3	6834	100.6	99.7	101.1	8.0	6.8	6.3
2018	6027	99.6	99.4	100.1	6.4	4.6	6.4	5447	99.7	99.2	100.2	8.0	6.6	6.4
2019	115	100.4	99.9	100.6	5.6	4.3	5.5	172	99.8	99.7	99.9	7.5	6.5	6.0

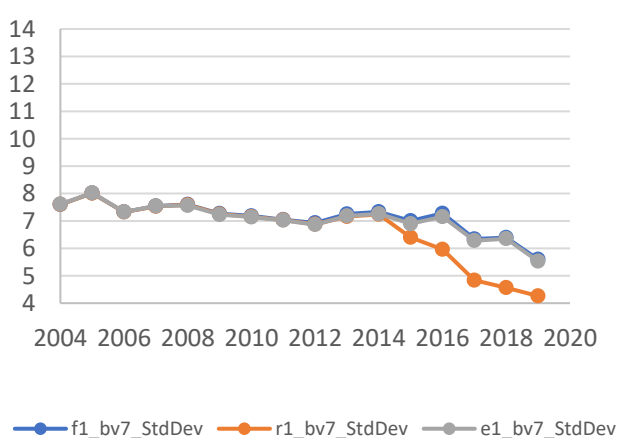
Non genotyped females with records



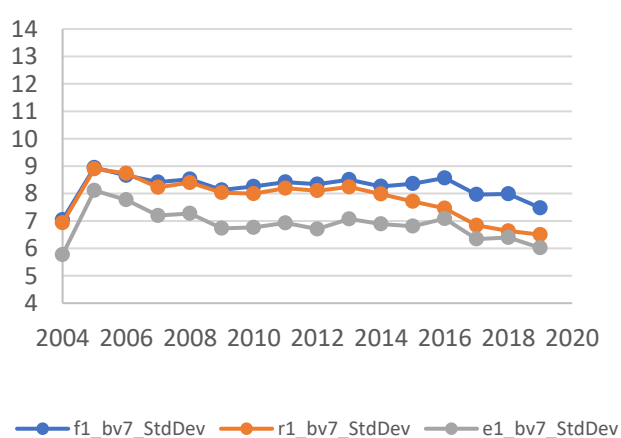
Genotyped females with records



Non genotyped females with records



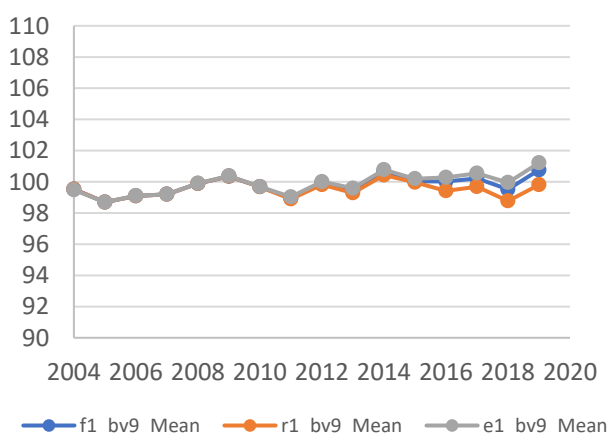
Genotyped females with records



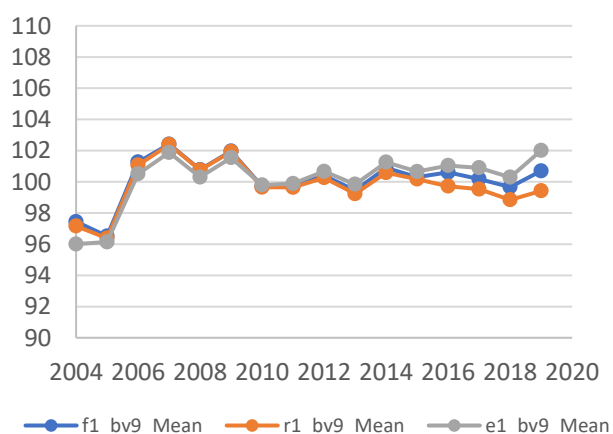
bv9

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27490	99.5	99.5	99.5	7.5	7.5	7.6	8	97.4	97.2	96.0	4.9	5.1	5.7
2005	26460	98.7	98.7	98.7	7.3	7.3	7.4	34	96.5	96.4	96.1	7.7	7.7	6.4
2006	26694	99.1	99.1	99.1	7.7	7.7	7.7	52	101.3	101.1	100.5	9.9	9.9	9.8
2007	25229	99.2	99.2	99.2	7.3	7.2	7.2	101	102.4	102.4	101.9	9.1	9.0	8.1
2008	26503	99.9	99.9	99.9	7.6	7.6	7.6	166	100.8	100.8	100.3	8.8	8.6	7.3
2009	27329	100.3	100.4	100.4	7.2	7.2	7.2	292	102.0	101.9	101.5	8.3	8.1	7.1
2010	23364	99.7	99.7	99.7	7.3	7.3	7.3	2203	99.7	99.6	99.8	8.2	8.1	7.1
2011	21871	99.0	98.9	99.0	7.0	7.0	7.0	3405	99.7	99.6	99.9	7.9	7.8	6.9
2012	19392	99.9	99.8	100.0	6.9	6.9	6.9	3458	100.4	100.3	100.7	7.9	7.7	6.8
2013	21083	99.4	99.3	99.6	6.9	6.9	6.9	3744	99.5	99.2	99.8	8.4	8.1	7.2
2014	20090	100.7	100.4	100.8	6.7	6.6	6.6	3941	100.9	100.6	101.3	7.6	7.4	6.4
2015	17005	100.0	100.0	100.2	6.4	5.9	6.3	4966	100.3	100.2	100.7	7.5	6.9	6.3
2016	14023	100.0	99.4	100.3	6.3	5.4	6.2	6708	100.6	99.7	101.0	7.4	6.7	6.1
2017	10879	100.2	99.7	100.5	6.2	5.3	6.2	6835	100.2	99.5	100.9	7.2	6.5	6.0
2018	6027	99.5	98.8	100.0	6.1	5.5	6.0	5448	99.7	98.8	100.3	7.1	6.6	5.9
2019	115	100.8	99.8	101.2	5.4	3.8	5.3	172	100.7	99.4	102.0	6.4	5.7	5.6

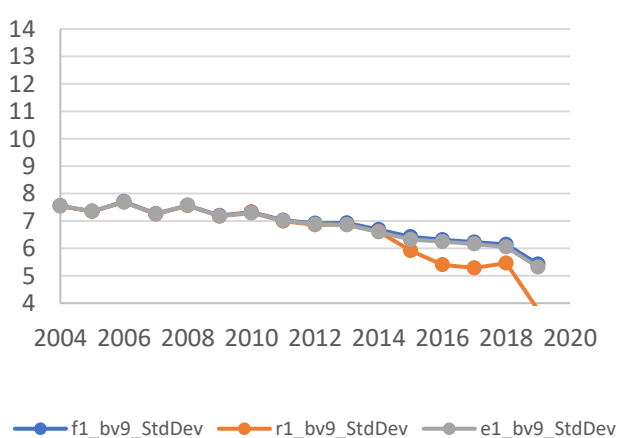
Non genotyped females with records



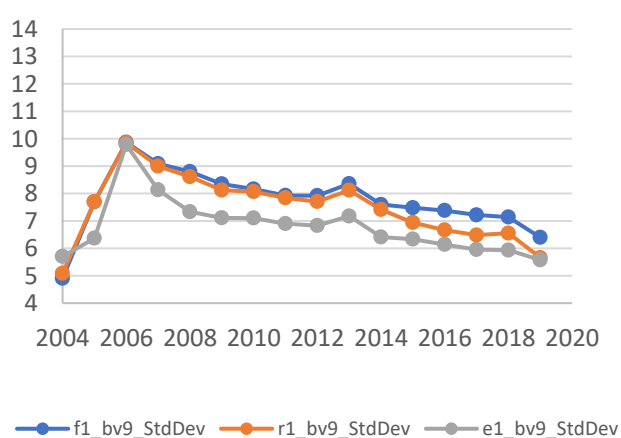
Genotyped females with records



Non genotyped females with records



Genotyped females with records

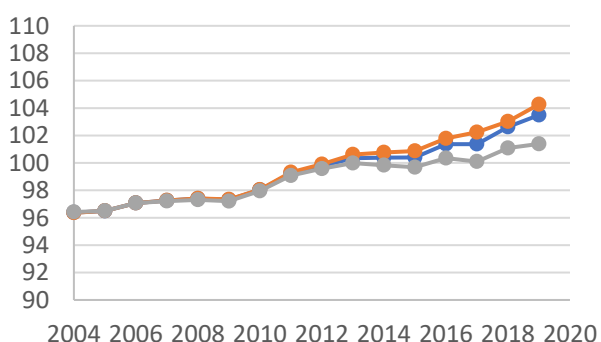


Mælkeafgiftsfonden

bv10

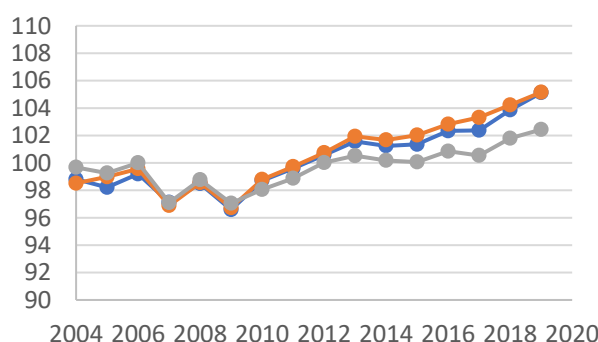
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27483	94.0	94.0	94.0	7.6	7.5	7.6	8	98.3	98.4	98.2	8.1	8.8	6.0
2005	26458	93.8	93.8	93.8	7.4	7.4	7.4	34	95.5	95.0	94.5	8.0	8.0	7.0
2006	26693	93.9	93.9	93.9	7.7	7.6	7.7	52	95.1	95.5	95.1	9.0	8.9	7.6
2007	25228	94.4	94.4	94.3	7.5	7.5	7.5	101	94.6	94.8	95.0	8.5	8.5	7.2
2008	26503	95.2	95.2	95.1	7.4	7.4	7.4	166	95.6	95.8	94.9	8.6	8.5	7.9
2009	27328	95.4	95.4	95.3	7.3	7.3	7.3	292	96.6	96.8	96.6	9.5	9.3	7.8
2010	23364	95.9	96.0	95.8	7.4	7.4	7.4	2203	97.0	97.2	96.1	8.9	8.7	7.4
2011	21871	96.4	96.5	96.2	7.3	7.2	7.3	3405	97.4	97.5	96.4	9.0	8.8	7.6
2012	19392	97.8	97.9	97.6	7.3	7.3	7.3	3458	98.6	98.8	97.8	8.9	8.8	7.6
2013	21083	98.0	98.0	97.6	7.3	7.3	7.3	3744	98.7	98.8	97.6	8.7	8.6	7.3
2014	20089	98.5	98.5	97.9	7.4	7.4	7.4	3941	99.4	99.3	98.0	9.1	8.9	7.6
2015	17004	100.4	100.2	99.6	7.2	6.6	7.1	4966	101.3	101.3	99.8	8.7	8.2	7.3
2016	14023	100.7	100.7	99.7	7.4	5.9	7.3	6708	101.6	101.6	99.8	8.9	8.0	7.4
2017	10877	101.9	101.9	100.6	7.6	5.2	7.5	6835	102.9	103.1	100.6	8.9	7.6	7.6
2018	6026	102.9	103.7	101.2	7.6	5.0	7.5	5448	103.8	104.7	101.3	8.9	7.4	7.6
2019	115	102.0	102.8	100.1	8.0	4.7	8.0	172	102.7	103.3	100.9	8.5	7.2	7.1

Non genotyped females with records



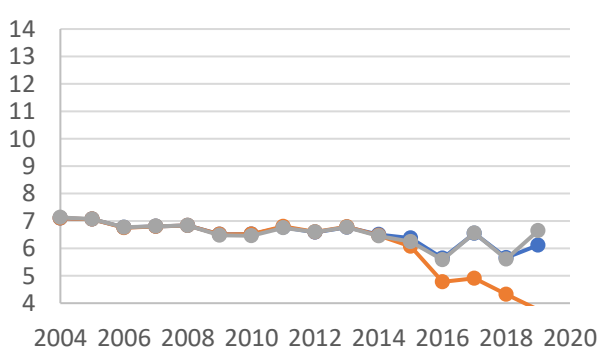
f1_bv10_Mean r1_bv10_Mean e1_bv10_Mean

Genotyped females with records



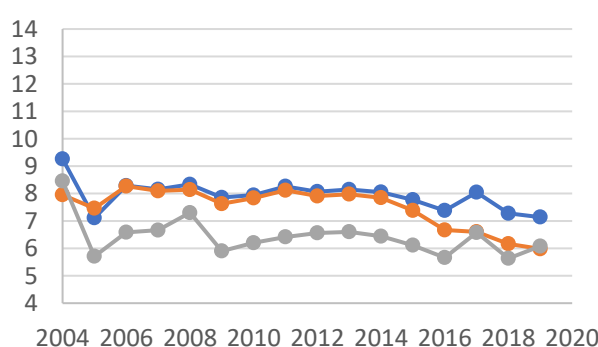
f1_bv10_Mean r1_bv10_Mean e1_bv10_Mean

Non genotyped females with records



f1_bv10_StdDev r1_bv10_StdDev

Genotyped females with records



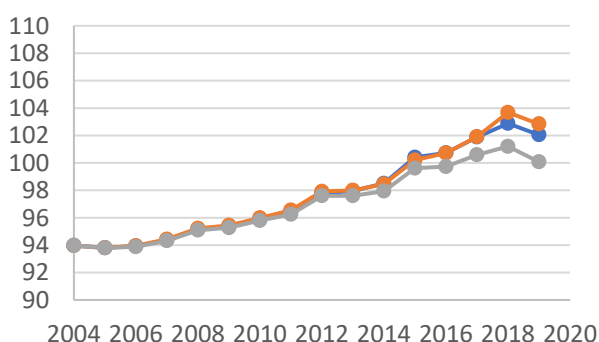
f1_bv10_StdDev r1_bv10_StdDev

Mælkeafgiftsfonden

bv11

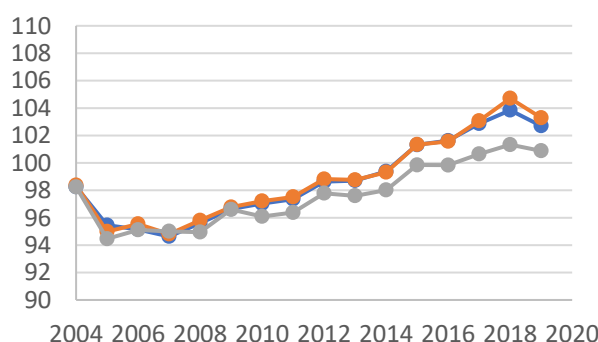
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27483	94.0	94.0	94.0	7.6	7.5	7.6	8	98.3	98.4	98.2	8.1	8.8	6.0
2005	26458	93.8	93.8	93.8	7.4	7.4	7.4	34	95.5	95.0	94.5	8.0	8.0	7.0
2006	26693	93.9	93.9	93.9	7.7	7.6	7.7	52	95.1	95.5	95.1	9.0	8.9	7.6
2007	25228	94.4	94.4	94.3	7.5	7.5	7.5	101	94.6	94.8	95.0	8.5	8.5	7.2
2008	26503	95.2	95.2	95.1	7.4	7.4	7.4	166	95.6	95.8	94.9	8.6	8.5	7.9
2009	27328	95.4	95.4	95.3	7.3	7.3	7.3	292	96.6	96.8	96.6	9.5	9.3	7.8
2010	23364	95.9	96.0	95.8	7.4	7.4	7.4	2203	97.0	97.2	96.1	8.9	8.7	7.4
2011	21871	96.4	96.5	96.2	7.3	7.2	7.3	3405	97.4	97.5	96.4	9.0	8.8	7.6
2012	19392	97.8	97.9	97.6	7.3	7.3	7.3	3458	98.6	98.8	97.8	8.9	8.8	7.6
2013	21083	98.0	98.0	97.6	7.3	7.3	7.3	3744	98.7	98.8	97.6	8.7	8.6	7.3
2014	20089	98.5	98.5	97.9	7.4	7.4	7.4	3941	99.4	99.3	98.0	9.1	8.9	7.6
2015	17004	100.4	100.2	99.6	7.2	6.6	7.1	4966	101.3	101.3	99.8	8.7	8.2	7.3
2016	14023	100.7	100.7	99.7	7.4	5.9	7.3	6708	101.6	101.6	99.8	8.9	8.0	7.4
2017	10877	101.9	101.9	100.6	7.6	5.2	7.5	6835	102.9	103.1	100.6	8.9	7.6	7.6
2018	6026	102.9	103.7	101.2	7.6	5.0	7.5	5448	103.8	104.7	101.3	8.9	7.4	7.6
2019	115	102.0	102.8	100.1	8.0	4.7	8.0	172	102.7	103.3	100.9	8.5	7.2	7.1

Non genotyped females with records



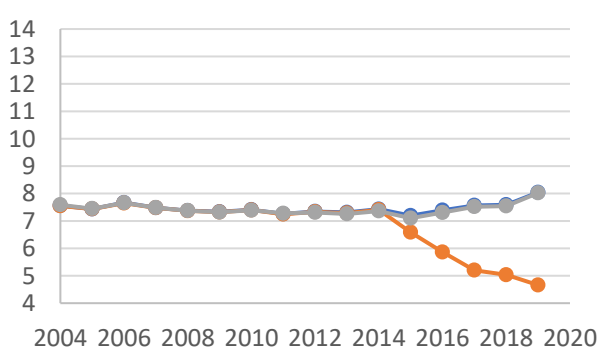
f1_bv11_Mean r1_bv11_Mean e1_bv11_Mean

Genotyped females with records



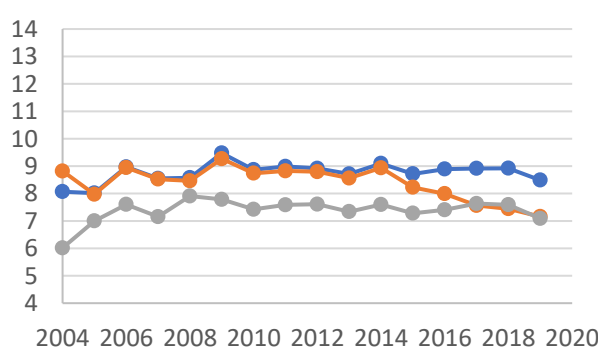
f1_bv11_Mean r1_bv11_Mean e1_bv11_Mean

Non genotyped females with records



f1_bv11_StdDev r1_bv11_StdDev

Genotyped females with records



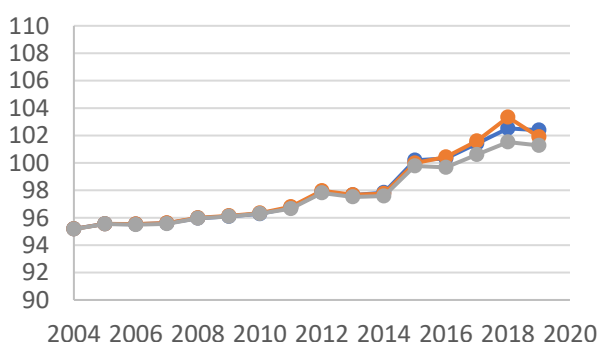
f1_bv11_StdDev r1_bv11_StdDev

Mælkeafgiftsfonden

bv12

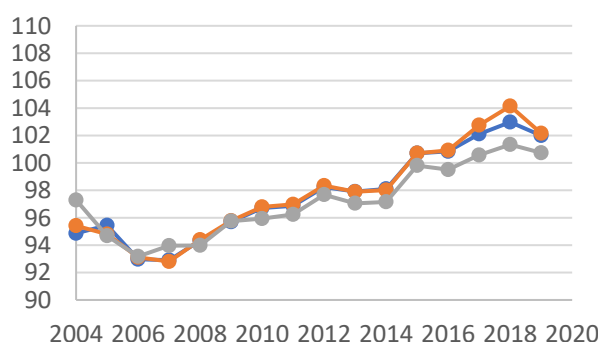
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27484	95.2	95.2	95.2	8.4	8.4	8.4	8	94.9	95.4	97.3	11.7	11.5	8.6
2005	26459	95.5	95.6	95.5	8.3	8.3	8.3	34	95.4	94.8	94.7	9.1	9.3	8.7
2006	26694	95.5	95.5	95.5	8.5	8.5	8.5	52	93.0	93.1	93.2	9.9	9.9	8.1
2007	25227	95.6	95.6	95.6	8.6	8.6	8.6	101	92.9	92.8	94.0	9.7	9.5	8.2
2008	26501	96.0	96.0	96.0	8.7	8.7	8.7	166	94.3	94.4	94.0	10.2	10.2	9.7
2009	27329	96.1	96.1	96.1	8.5	8.5	8.5	292	95.7	95.8	95.8	10.4	10.2	8.9
2010	23364	96.3	96.3	96.3	8.5	8.5	8.5	2203	96.7	96.8	95.9	9.7	9.7	8.4
2011	21871	96.7	96.8	96.7	8.4	8.4	8.4	3405	96.9	97.0	96.2	9.8	9.6	8.6
2012	19392	97.9	98.0	97.8	8.7	8.7	8.6	3458	98.2	98.3	97.7	9.9	9.8	8.7
2013	21083	97.7	97.7	97.5	8.5	8.5	8.5	3744	97.9	97.9	97.1	9.9	9.6	8.7
2014	20088	97.8	97.8	97.6	8.9	8.9	8.8	3941	98.1	98.0	97.2	10.3	10.2	8.9
2015	17004	100.2	100.0	99.8	8.8	7.9	8.7	4966	100.7	100.7	99.8	9.9	9.4	8.7
2016	14023	100.3	100.4	99.7	8.8	6.8	8.7	6708	100.8	100.9	99.5	9.9	9.0	8.8
2017	10877	101.4	101.6	100.6	8.8	6.2	8.8	6835	102.1	102.8	100.6	10.0	8.5	8.8
2018	6026	102.5	103.3	101.5	9.0	5.9	9.0	5448	103.0	104.1	101.3	10.1	8.3	9.0
2019	115	102.4	101.9	101.3	8.3	5.6	8.0	172	102.0	102.2	100.7	9.5	7.5	8.6

Non genotyped females with records



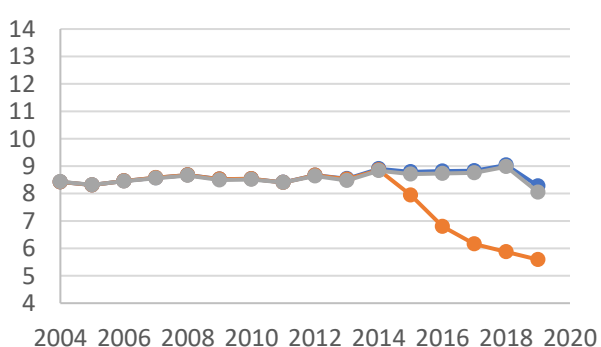
f1_bv12_Mean r1_bv12_Mean e1_bv12_Mean

Genotyped females with records



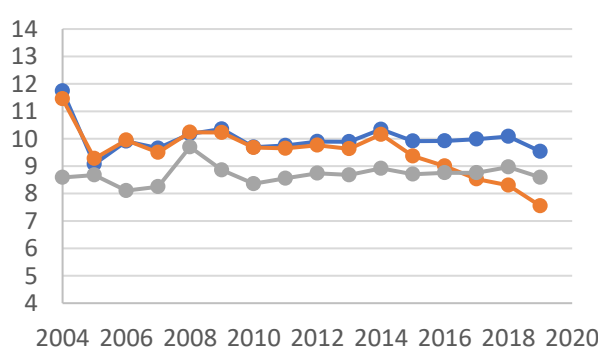
f1_bv12_Mean r1_bv12_Mean e1_bv12_Mean

Non genotyped females with records



f1_bv12_StdDev r1_bv12_StdDev

Genotyped females with records

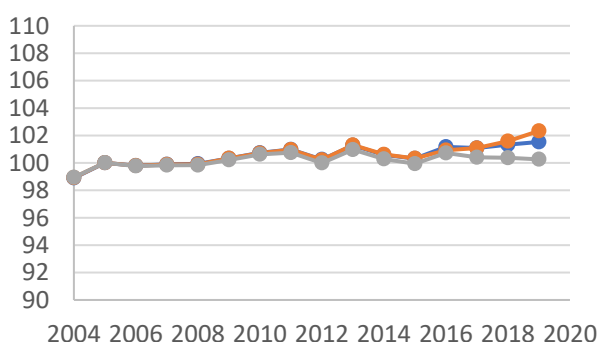


f1_bv12_StdDev r1_bv12_StdDev

bv13

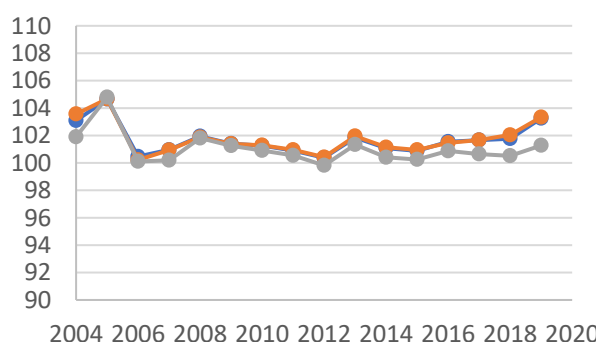
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27483	98.9	98.9	98.9	6.8	6.8	6.7	8	103.1	103.6	101.9	7.7	8.1	6.2
2005	26450	100.0	100.0	100.0	6.5	6.5	6.5	34	104.7	104.7	104.8	8.3	8.3	7.4
2006	26692	99.8	99.8	99.8	6.0	6.0	6.0	52	100.5	100.2	100.1	6.7	6.4	5.2
2007	25227	99.9	99.9	99.8	5.7	5.7	5.7	100	101.0	100.9	100.2	6.8	6.8	5.6
2008	26502	99.9	99.9	99.8	5.8	5.8	5.8	166	101.9	101.9	101.8	6.9	6.6	5.7
2009	27328	100.3	100.3	100.2	5.9	5.9	5.8	292	101.4	101.4	101.3	7.1	6.9	5.7
2010	23363	100.7	100.7	100.6	5.8	5.8	5.8	2203	101.3	101.3	100.9	6.9	6.7	5.7
2011	21870	101.0	101.0	100.7	5.7	5.7	5.6	3405	100.9	101.0	100.5	6.8	6.6	5.6
2012	19392	100.2	100.2	100.0	5.5	5.5	5.5	3458	100.4	100.4	99.8	6.8	6.5	5.4
2013	21083	101.3	101.3	101.0	5.8	5.8	5.8	3744	101.8	102.0	101.3	7.1	6.9	5.8
2014	20089	100.6	100.6	100.3	5.3	5.3	5.2	3941	101.1	101.1	100.4	6.5	6.3	5.0
2015	17004	100.3	100.3	99.9	5.5	5.0	5.3	4966	100.9	100.9	100.3	6.6	6.0	5.3
2016	14023	101.2	100.9	100.7	4.9	4.1	4.8	6708	101.5	101.5	100.9	6.1	5.5	4.7
2017	10878	101.1	101.1	100.4	5.2	4.2	5.2	6835	101.7	101.7	100.6	6.6	5.7	5.2
2018	6026	101.3	101.6	100.4	5.4	4.0	5.4	5448	101.8	102.0	100.5	6.6	5.4	5.3
2019	115	101.5	102.3	100.3	5.7	3.4	5.7	172	103.3	103.3	101.3	6.3	4.9	5.0

Non genotyped females with records



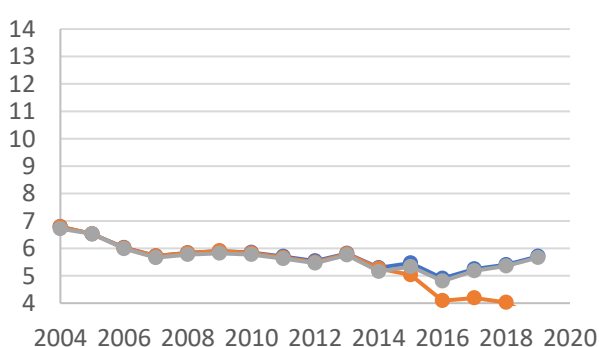
f1_bv13_Mean r1_bv13_Mean e1_bv13_Mean

Genotyped females with records



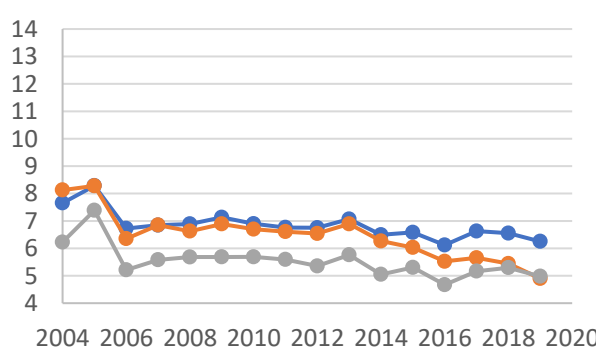
f1_bv13_Mean r1_bv13_Mean e1_bv13_Mean

Non genotyped females with records



f1_bv13_StdDev r1_bv13_StdDev

Genotyped females with records

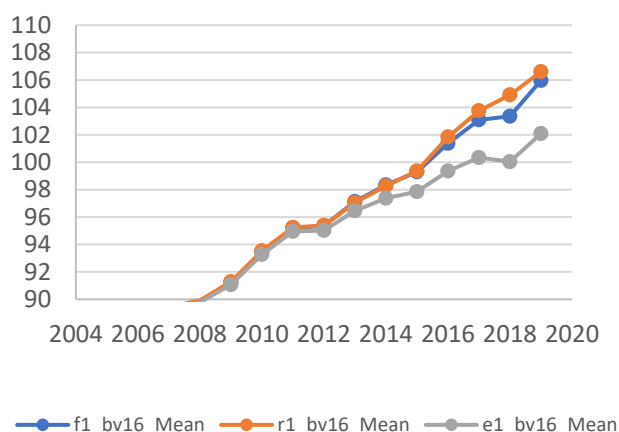


f1_bv13_StdDev r1_bv13_StdDev

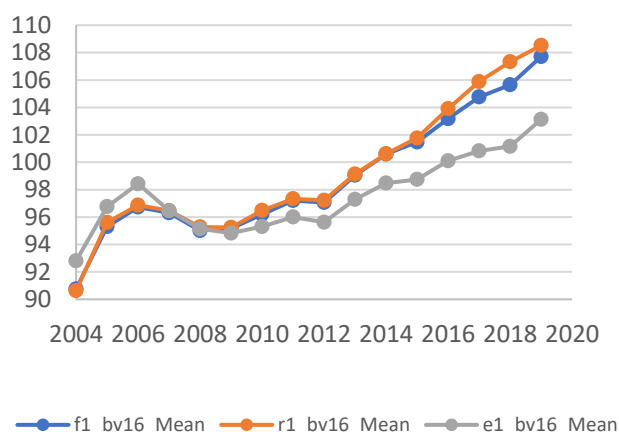
bv16

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27486	85.2	85.2	85.2	7.4	7.4	7.4	8	90.8	90.6	92.8	6.8	6.3	3.5
2005	26460	86.7	86.7	86.7	7.6	7.6	7.6	34	95.3	95.6	96.8	7.6	7.4	7.1
2006	26695	88.7	88.7	88.6	7.8	7.8	7.8	52	96.7	96.9	98.4	8.9	8.7	8.3
2007	25229	89.4	89.5	89.4	7.7	7.6	7.6	101	96.3	96.5	96.5	10.6	10.2	9.5
2008	26502	89.9	89.9	89.8	7.7	7.7	7.7	166	95.0	95.3	95.1	9.0	8.9	8.4
2009	27329	91.2	91.3	91.1	7.8	7.7	7.7	292	95.2	95.2	94.8	9.2	9.1	8.3
2010	23364	93.5	93.5	93.3	7.8	7.8	7.7	2203	96.2	96.5	95.3	9.8	9.6	8.2
2011	21869	95.2	95.2	94.9	7.2	7.2	7.1	3405	97.2	97.3	96.0	9.2	9.0	7.6
2012	19391	95.4	95.4	95.0	7.2	7.2	7.1	3458	97.1	97.2	95.6	8.7	8.6	7.2
2013	21082	97.1	97.1	96.5	7.2	7.1	7.0	3744	99.0	99.1	97.3	8.8	8.6	7.2
2014	20088	98.3	98.3	97.4	7.5	7.5	7.4	3941	100.6	100.6	98.5	9.1	8.9	7.6
2015	17002	99.3	99.4	97.9	7.3	6.7	7.1	4966	101.5	101.8	98.7	8.7	8.2	7.1
2016	14021	101.4	101.8	99.4	7.5	6.5	7.2	6708	103.2	103.9	100.1	8.9	8.2	7.4
2017	10876	103.1	103.8	100.3	7.4	6.0	7.3	6834	104.8	105.9	100.8	9.0	8.0	7.5
2018	6024	103.4	104.9	100.0	7.0	6.1	6.7	5447	105.6	107.3	101.2	8.5	7.9	6.8
2019	115	106.0	106.6	102.1	6.6	5.4	6.6	172	107.7	108.5	103.1	8.2	7.5	6.9

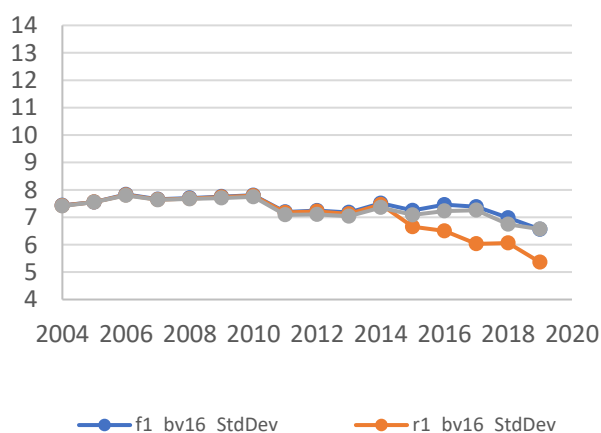
Non genotyped females with records



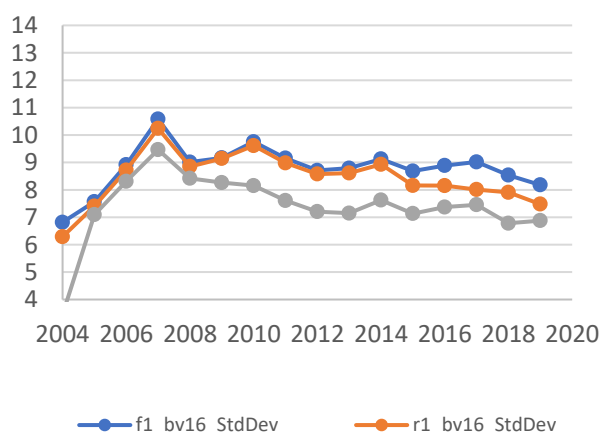
Genotyped females with records



Non genotyped females with records



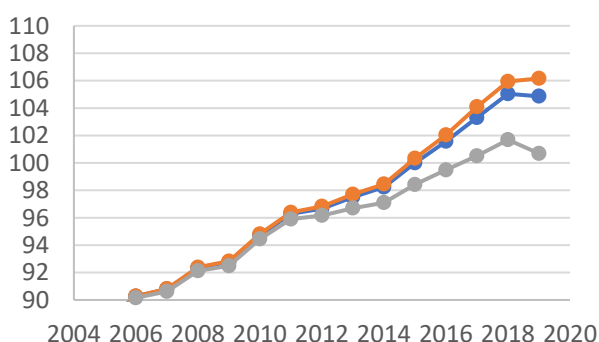
Genotyped females with records



bv17

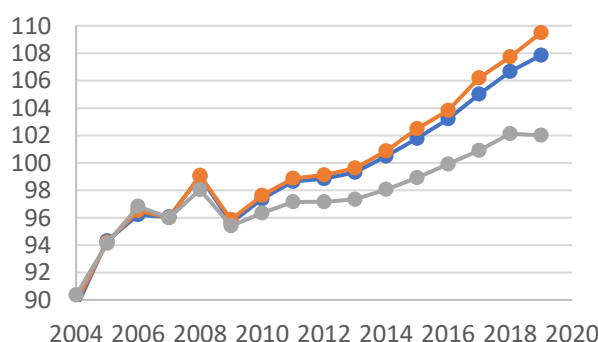
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27487	87.8	87.8	87.8	7.4	7.4	7.4	8	89.4	89.8	90.4	9.2	8.2	8.2
2005	26460	88.3	88.3	88.3	7.6	7.6	7.6	34	94.3	94.2	94.1	8.5	8.6	8.4
2006	26695	90.3	90.3	90.2	7.7	7.7	7.7	52	96.2	96.5	96.8	8.3	8.4	7.2
2007	25229	90.8	90.8	90.6	7.3	7.3	7.3	101	96.1	96.0	96.0	7.9	8.0	6.7
2008	26502	92.3	92.4	92.1	7.8	7.8	7.8	166	99.0	99.1	98.0	8.3	8.2	7.7
2009	27329	92.8	92.8	92.5	7.5	7.5	7.5	292	95.6	95.9	95.4	8.3	8.0	6.9
2010	23364	94.7	94.8	94.4	7.5	7.6	7.5	2203	97.4	97.6	96.3	8.6	8.5	7.4
2011	21868	96.3	96.4	95.9	7.0	7.0	6.9	3405	98.6	98.9	97.2	8.4	8.3	7.2
2012	19391	96.7	96.8	96.2	6.9	6.9	6.8	3458	98.8	99.1	97.2	8.2	8.1	7.0
2013	21082	97.5	97.7	96.7	6.9	6.9	6.8	3744	99.3	99.6	97.3	8.0	7.9	6.8
2014	20087	98.2	98.4	97.1	7.1	7.0	6.9	3941	100.5	100.9	98.1	8.3	8.0	6.9
2015	17002	100.0	100.3	98.4	7.2	6.7	7.1	4966	101.8	102.5	98.9	8.3	7.7	6.9
2016	14021	101.6	102.0	99.5	7.2	5.7	7.0	6708	103.2	103.8	99.9	8.3	7.2	7.0
2017	10875	103.3	104.1	100.5	6.8	5.4	6.7	6834	105.0	106.2	100.9	7.9	6.9	6.5
2018	6024	105.0	105.9	101.7	7.4	5.3	7.3	5447	106.7	107.7	102.1	8.6	7.0	7.3
2019	115	104.9	106.2	100.7	6.3	5.0	6.3	172	107.8	109.5	102.0	7.4	6.3	6.5

Non genotyped females with records



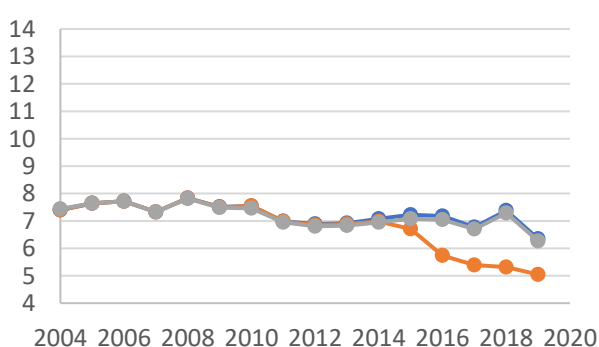
f1_bv17_Mean r1_bv17_Mean e1_bv17_Mean

Genotyped females with records



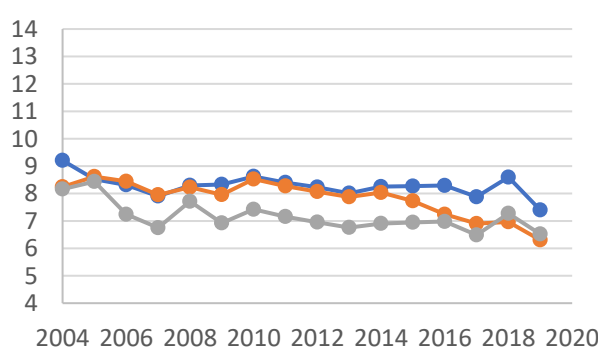
f1_bv17_Mean r1_bv17_Mean e1_bv17_Mean

Non genotyped females with records



f1_bv17_StdDev r1_bv17_StdDev

Genotyped females with records

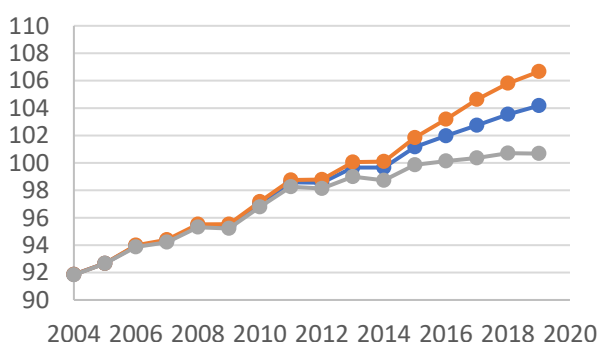


f1_bv17_StdDev r1_bv17_StdDev

bv18

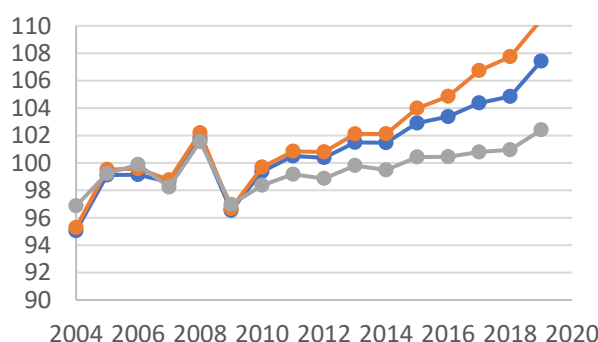
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27487	91.9	91.9	91.8	7.4	7.4	7.5	8	95.0	95.3	96.9	8.6	8.5	8.8
2005	26459	92.7	92.7	92.7	7.7	7.7	7.7	34	99.1	99.5	99.2	9.6	9.4	8.8
2006	26694	93.9	94.0	93.9	8.3	8.3	8.3	52	99.1	99.6	99.9	8.8	9.1	9.3
2007	25229	94.3	94.4	94.2	8.0	8.0	8.0	101	98.6	98.8	98.2	9.6	9.6	8.7
2008	26500	95.4	95.5	95.3	8.3	8.3	8.3	166	101.8	102.2	101.6	8.9	8.8	8.3
2009	27329	95.4	95.5	95.2	8.2	8.2	8.2	292	96.5	96.7	97.0	10.1	9.8	8.6
2010	23364	97.0	97.2	96.8	8.5	8.5	8.5	2203	99.4	99.7	98.4	9.7	9.7	8.6
2011	21869	98.6	98.7	98.3	8.1	8.1	8.1	3405	100.5	100.8	99.2	9.3	9.2	8.2
2012	19391	98.5	98.8	98.1	8.0	8.0	8.0	3458	100.4	100.8	98.9	9.2	9.1	8.0
2013	21082	99.7	100.1	99.0	8.2	8.1	8.1	3744	101.5	102.1	99.8	9.3	9.2	8.1
2014	20087	99.7	100.1	98.7	8.1	8.0	8.0	3941	101.5	102.1	99.5	9.0	8.8	7.8
2015	17002	101.2	101.8	99.9	7.7	7.3	7.6	4966	102.9	104.0	100.4	8.9	8.7	7.7
2016	14021	102.0	103.2	100.1	7.6	6.2	7.5	6708	103.4	104.8	100.4	8.9	8.0	7.7
2017	10875	102.7	104.6	100.4	7.2	5.8	7.2	6834	104.4	106.7	100.8	8.5	7.6	7.1
2018	6024	103.5	105.8	100.7	7.0	5.2	7.0	5447	104.8	107.7	101.0	8.4	7.2	7.0
2019	115	104.2	106.7	100.7	6.8	6.0	6.7	172	107.4	110.4	102.4	8.3	7.4	7.5

Non genotyped females with records



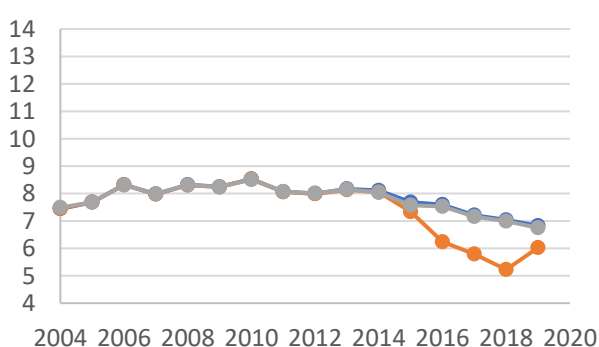
f1_bv18_Mean r1_bv18_Mean e1_bv18_Mean

Genotyped females with records



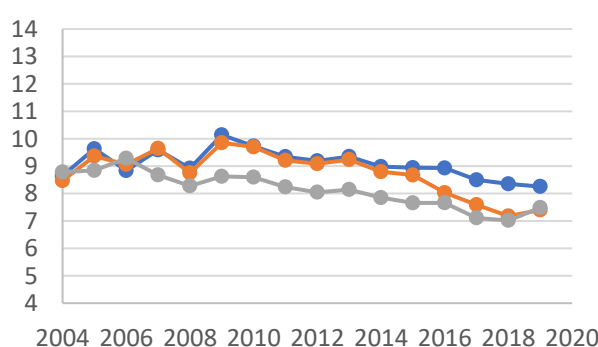
f1_bv18_Mean r1_bv18_Mean e1_bv18_Mean

Non genotyped females with records



f1_bv18_StdDev r1_bv18_StdDev

Genotyped females with records



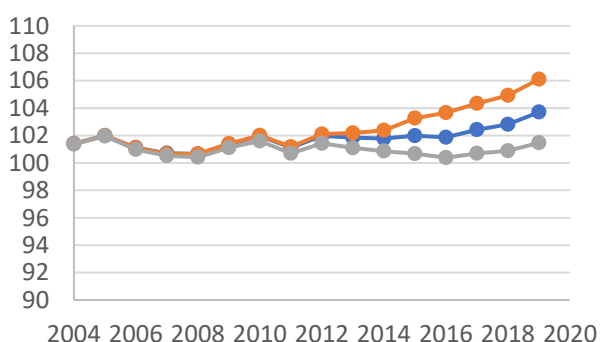
f1_bv18_StdDev r1_bv18_StdDev

Mælkeafgiftsfonden

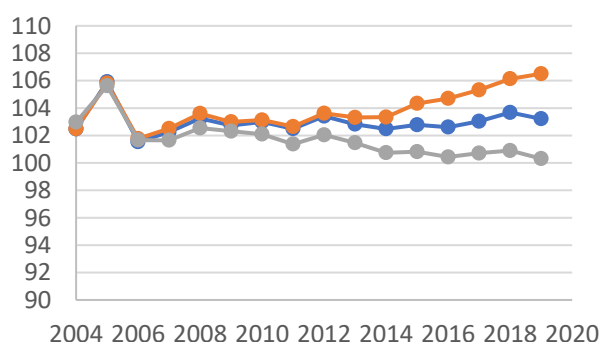
bv19

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27485	101.4	101.4	101.4	7.9	7.9	7.9	8	102.5	102.5	103.0	10.1	9.5	7.8
2005	26458	102.0	102.0	102.0	7.6	7.6	7.6	34	105.9	105.8	105.6	10.4	10.0	8.3
2006	26689	101.1	101.1	101.0	8.4	8.4	8.4	52	101.5	101.8	101.7	12.7	12.2	10.6
2007	25228	100.7	100.7	100.5	8.2	8.2	8.2	101	102.3	102.5	101.7	9.6	9.5	7.5
2008	26502	100.7	100.7	100.4	8.4	8.4	8.3	166	103.2	103.6	102.5	10.1	9.8	8.4
2009	27329	101.4	101.4	101.1	8.3	8.3	8.3	292	102.7	103.0	102.3	9.3	9.2	7.7
2010	23363	102.0	102.0	101.6	7.7	7.6	7.5	2203	103.0	103.1	102.1	9.2	9.1	7.5
2011	21868	101.1	101.2	100.7	7.5	7.5	7.4	3405	102.5	102.6	101.4	9.2	9.0	7.5
2012	19390	102.0	102.1	101.4	7.8	7.8	7.7	3458	103.4	103.6	102.0	9.7	9.5	7.9
2013	21082	101.8	102.2	101.1	7.6	7.6	7.5	3744	102.8	103.3	101.5	9.5	9.2	7.5
2014	20087	101.8	102.4	100.9	7.7	7.6	7.5	3941	102.5	103.3	100.7	9.5	9.1	7.6
2015	17001	102.0	103.3	100.7	7.4	6.9	7.2	4966	102.8	104.3	100.8	9.5	8.9	7.4
2016	14020	101.9	103.7	100.4	7.9	6.6	7.7	6708	102.6	104.7	100.4	9.8	8.6	7.9
2017	10875	102.4	104.3	100.7	7.9	5.8	7.8	6834	103.0	105.3	100.7	9.8	8.1	8.0
2018	6024	102.8	104.9	100.9	7.5	5.5	7.3	5447	103.7	106.1	100.9	9.3	7.8	7.0
2019	115	103.7	106.1	101.5	6.9	5.0	6.8	172	103.2	106.5	100.3	9.5	8.2	7.1

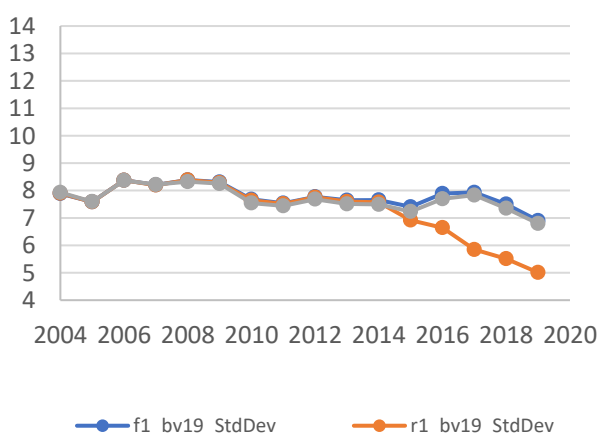
Non genotyped females with records



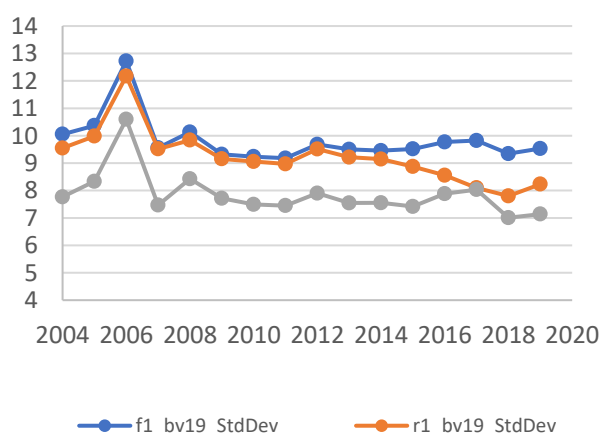
Genotyped females with records



Non genotyped females with records



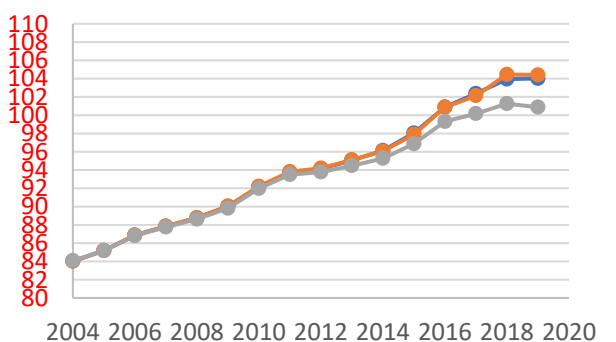
Genotyped females with records



bv20

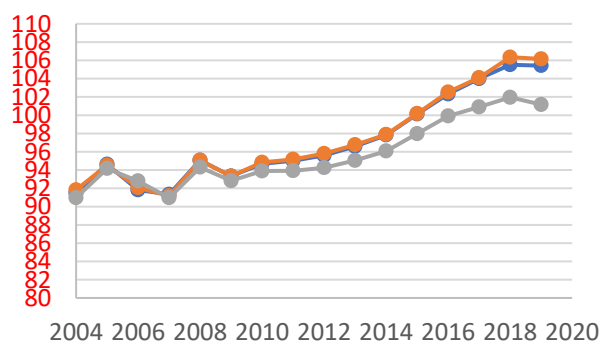
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27486	84.0	84.0	84.1	8.1	8.1	8.1	8	91.5	91.8	91.0	6.9	6.8	6.9
2005	26458	85.2	85.2	85.2	8.1	8.1	8.1	34	94.6	94.5	94.2	7.2	7.0	6.3
2006	26694	86.9	86.9	86.8	8.1	8.1	8.1	52	91.8	92.1	92.8	7.9	7.8	7.1
2007	25229	87.8	87.9	87.8	7.7	7.7	7.7	101	91.3	91.2	91.0	9.2	9.1	7.5
2008	26502	88.8	88.8	88.6	8.1	8.1	8.0	166	95.1	95.1	94.3	8.9	8.7	8.1
2009	27328	90.0	90.0	89.8	7.6	7.6	7.6	292	93.3	93.3	92.8	8.7	8.5	7.5
2010	23362	92.2	92.2	92.0	8.5	8.5	8.5	2203	94.7	94.8	93.9	10.3	10.2	9.0
2011	21868	93.7	93.8	93.5	8.0	8.0	7.9	3405	95.0	95.2	93.9	9.5	9.4	8.4
2012	19391	94.1	94.2	93.8	7.7	7.6	7.6	3458	95.6	95.8	94.3	9.0	8.8	7.6
2013	21082	95.1	95.1	94.5	7.3	7.3	7.3	3743	96.6	96.8	95.0	8.9	8.7	7.5
2014	20088	96.1	96.1	95.3	7.2	7.2	7.2	3941	97.8	97.9	96.1	8.9	8.7	7.4
2015	17001	98.0	97.9	96.9	7.6	7.0	7.5	4966	100.1	100.2	98.0	9.0	8.6	7.7
2016	14018	100.9	100.9	99.3	7.3	6.0	7.2	6708	102.3	102.5	99.9	8.6	7.9	7.1
2017	10876	102.4	102.1	100.2	7.6	6.0	7.5	6834	104.0	104.1	100.9	9.0	8.1	7.6
2018	6024	103.9	104.5	101.3	7.1	5.5	7.1	5447	105.5	106.3	102.0	8.4	7.7	6.9
2019	115	104.0	104.4	100.9	6.8	5.1	6.7	172	105.4	106.2	101.2	8.2	7.4	6.5

Non genotyped females with records



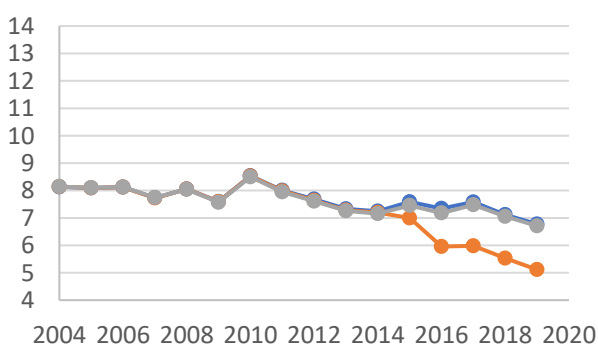
f1_bv20_Mean r1_bv20_Mean e1_bv20_Mean

Genotyped females with records



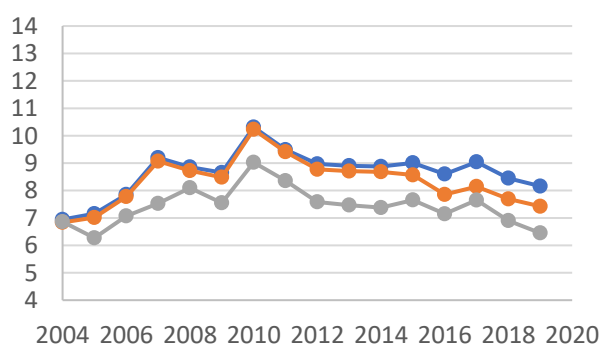
f1_bv20_Mean r1_bv20_Mean e1_bv20_Mean

Non genotyped females with records



f1_bv20_StdDev r1_bv20_StdDev

Genotyped females with records

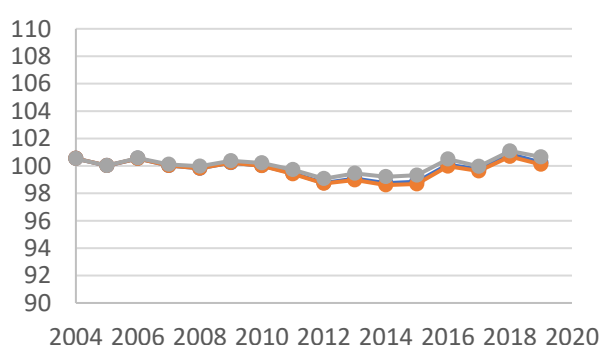


f1_bv20_StdDev r1_bv20_StdDev

bv21

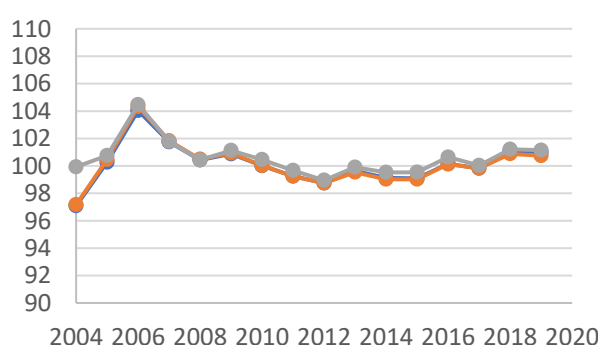
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27481	100.5	100.5	100.5	7.7	7.7	7.7	8	97.1	97.2	99.9	9.1	9.0	6.7
2005	26457	100.0	100.0	100.0	7.8	7.8	7.8	34	100.3	100.5	100.7	7.3	7.2	6.9
2006	26695	100.5	100.5	100.6	8.1	8.2	8.1	52	104.0	104.3	104.5	10.3	9.9	9.2
2007	25229	100.0	100.0	100.1	8.1	8.1	8.1	101	101.8	101.8	101.8	9.9	10.0	9.1
2008	26502	99.8	99.8	100.0	7.9	7.9	7.8	166	100.4	100.5	100.4	8.7	8.7	7.7
2009	27326	100.2	100.2	100.4	7.6	7.6	7.5	292	100.9	100.9	101.1	8.9	8.8	7.6
2010	23363	100.0	100.0	100.2	7.5	7.5	7.4	2203	100.0	100.0	100.5	8.8	8.5	7.4
2011	21868	99.5	99.4	99.7	7.4	7.4	7.4	3405	99.3	99.2	99.7	9.0	8.8	7.6
2012	19391	98.8	98.7	99.1	7.6	7.6	7.6	3458	98.7	98.7	99.0	9.4	9.2	8.1
2013	21082	99.1	99.0	99.5	8.7	8.7	8.6	3743	99.6	99.5	99.9	10.2	10.0	9.0
2014	20088	98.7	98.6	99.2	8.2	8.1	8.1	3941	99.1	99.0	99.5	9.9	9.6	8.4
2015	17001	98.8	98.7	99.3	8.5	7.8	8.4	4966	99.1	99.0	99.5	10.0	9.4	8.7
2016	14018	100.1	100.0	100.5	8.6	6.8	8.5	6708	100.2	100.1	100.6	10.0	8.8	8.7
2017	10876	99.7	99.6	100.0	8.5	6.3	8.5	6834	99.8	99.8	100.0	9.9	8.4	8.7
2018	6024	100.9	100.7	101.1	8.3	6.0	8.2	5447	101.1	100.9	101.2	9.8	8.3	8.5
2019	115	100.3	100.1	100.7	8.6	5.9	8.5	172	101.0	100.7	101.1	9.5	8.2	8.7

Non genotyped females with records



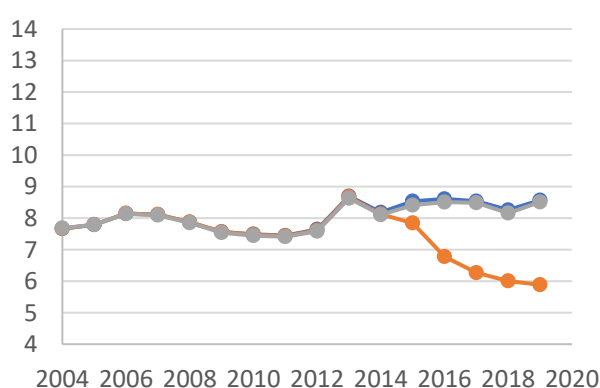
f1_bv21_Mean r1_bv21_Mean e1_bv21_Mean

Genotyped females with records



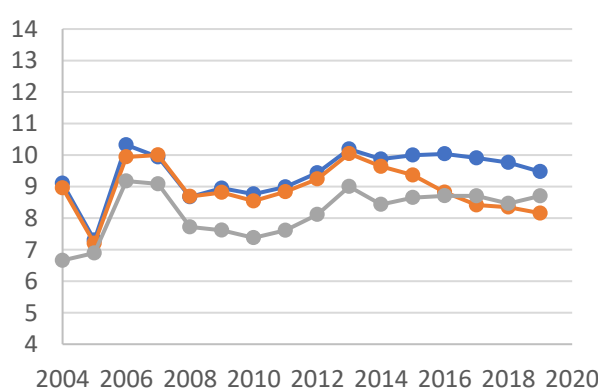
f1_bv21_Mean r1_bv21_Mean e1_bv21_Mean

Non genotyped females with records



f1_bv21_StdDev r1_bv21_StdDev e1_bv21_StdDev

Genotyped females with records

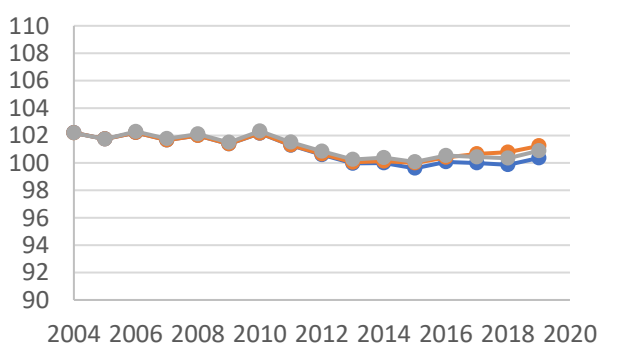


f1_bv21_StdDev r1_bv21_StdDev e1_bv21_StdDev

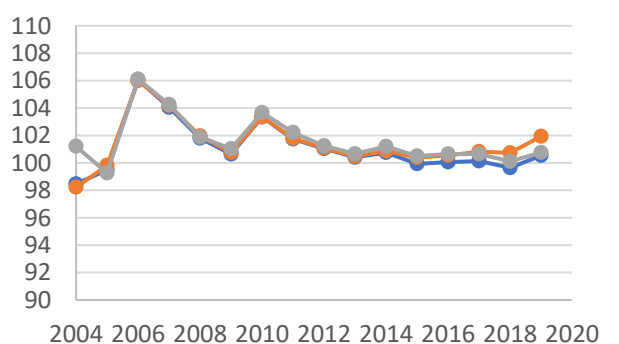
bv22

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27481	102.2	102.2	102.2	6.7	6.7	6.7	8	98.5	98.2	101.2	10.0	9.8	7.3
2005	26460	101.7	101.7	101.7	7.1	7.1	7.1	34	99.5	99.8	99.3	7.9	7.2	6.4
2006	26692	102.2	102.2	102.3	7.7	7.7	7.7	52	106.1	106.0	106.1	9.1	9.1	8.1
2007	25229	101.7	101.7	101.8	7.7	7.7	7.7	101	104.0	104.2	104.3	9.2	9.0	7.9
2008	26502	102.0	102.0	102.1	7.7	7.7	7.6	166	101.8	102.0	101.9	8.8	8.7	8.2
2009	27329	101.4	101.4	101.5	7.2	7.2	7.2	292	100.6	100.8	101.0	9.3	9.1	7.4
2010	23364	102.2	102.2	102.3	7.2	7.1	7.1	2203	103.3	103.4	103.7	8.7	8.4	7.0
2011	21868	101.3	101.3	101.5	7.3	7.3	7.3	3405	101.7	101.8	102.2	9.1	8.8	7.7
2012	19390	100.6	100.6	100.8	7.2	7.2	7.2	3458	101.0	101.1	101.2	9.1	8.8	7.5
2013	21082	100.0	100.0	100.2	7.2	7.1	7.1	3743	100.4	100.5	100.7	8.8	8.5	7.4
2014	20087	100.0	100.1	100.4	7.4	7.3	7.3	3941	100.7	100.9	101.2	8.9	8.5	7.3
2015	17001	99.6	100.0	100.1	7.7	7.1	7.6	4966	99.9	100.4	100.5	9.1	8.4	7.8
2016	14019	100.1	100.4	100.5	7.5	5.9	7.4	6708	100.1	100.5	100.6	8.8	7.5	7.4
2017	10874	100.0	100.7	100.4	7.0	5.4	6.9	6834	100.1	100.8	100.6	8.5	7.2	7.0
2018	6024	99.9	100.8	100.3	6.5	4.8	6.4	5447	99.6	100.7	100.1	8.2	6.9	6.8
2019	115	100.4	101.2	100.9	6.6	4.8	6.6	172	100.5	101.9	100.8	8.7	7.2	7.1

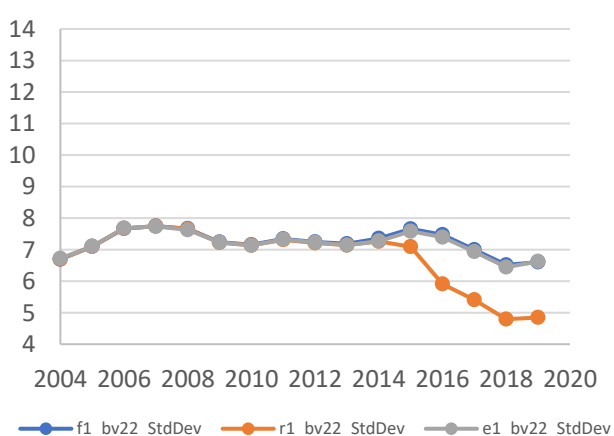
Non genotyped females with records



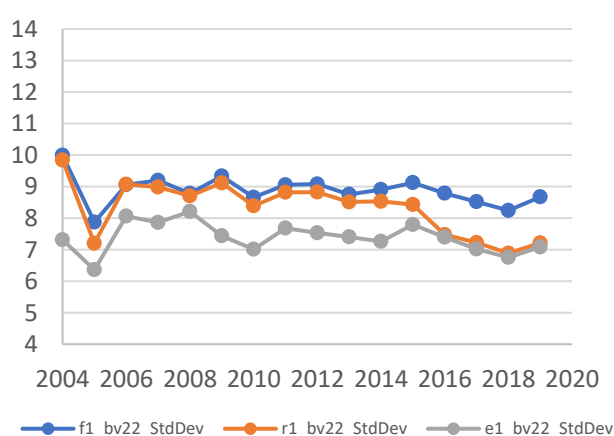
Genotyped females with records



Non genotyped females with records



Genotyped females with records

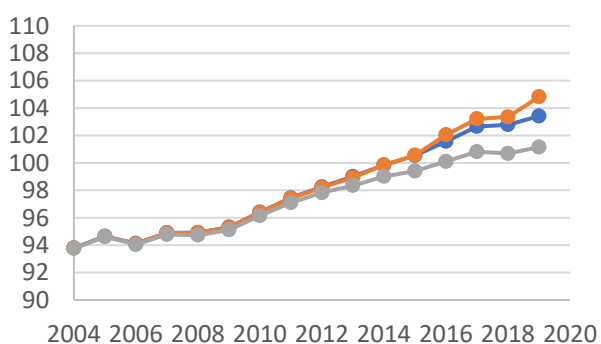


Mælkeafgiftsfonden

bv23

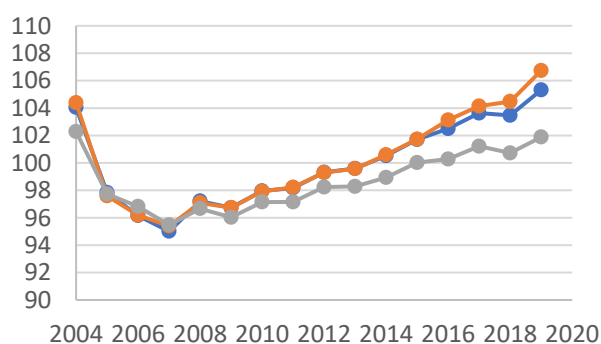
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27486	93.8	93.8	93.8	8.2	8.2	8.2	8	104.0	104.4	102.3	12.1	11.6	10.7
2005	26456	94.6	94.6	94.6	7.9	7.9	7.9	34	97.8	97.6	97.7	8.4	8.0	7.5
2006	26689	94.1	94.1	94.0	7.7	7.7	7.7	52	96.2	96.2	96.8	10.3	10.3	9.4
2007	25228	94.9	94.9	94.8	7.3	7.3	7.3	101	95.0	95.4	95.5	9.1	8.8	7.7
2008	26503	94.9	94.9	94.7	7.5	7.5	7.5	166	97.2	97.1	96.7	8.3	7.9	6.4
2009	27324	95.3	95.3	95.1	7.2	7.2	7.2	292	96.7	96.7	96.0	9.4	9.3	7.2
2010	23363	96.4	96.4	96.1	7.9	7.8	7.8	2203	98.0	97.9	97.1	9.9	9.7	8.2
2011	21868	97.4	97.4	97.1	8.0	8.0	7.9	3405	98.2	98.2	97.1	9.9	9.7	8.2
2012	19391	98.2	98.2	97.8	7.8	7.7	7.7	3458	99.3	99.3	98.2	9.6	9.4	7.9
2013	21082	99.0	98.9	98.3	8.2	8.2	8.1	3743	99.6	99.6	98.3	9.9	9.7	8.1
2014	20087	99.8	99.8	99.0	8.3	8.2	8.1	3941	100.5	100.6	98.9	9.8	9.5	8.2
2015	17001	100.5	100.6	99.4	8.3	7.6	8.1	4966	101.7	101.7	100.0	9.9	9.2	8.2
2016	14018	101.6	102.0	100.1	7.7	6.9	7.6	6708	102.5	103.1	100.3	9.5	8.9	7.6
2017	10875	102.7	103.2	100.8	7.9	6.4	7.8	6834	103.6	104.1	101.2	9.9	8.7	8.0
2018	6024	102.8	103.3	100.7	8.1	6.0	8.0	5447	103.5	104.5	100.7	9.8	8.2	7.9
2019	115	103.4	104.8	101.2	9.0	5.5	8.5	172	105.3	106.7	101.9	10.3	8.8	8.3

Non genotyped females with records



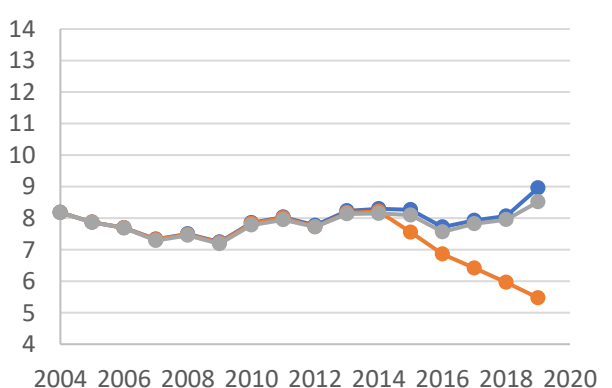
f1_bv23_Mean r1_bv23_Mean e1_bv23_Mean

Genotyped females with records



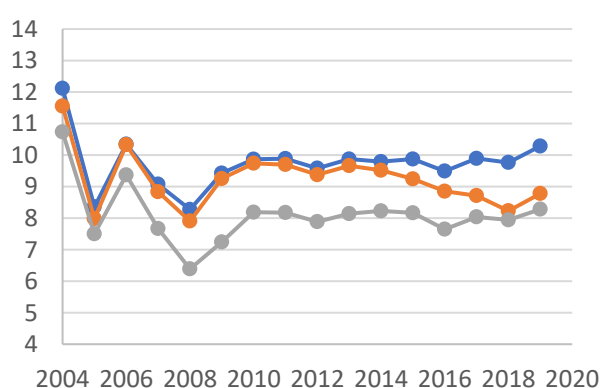
f1_bv23_Mean r1_bv23_Mean e1_bv23_Mean

Non genotyped females with records



f1_bv23_StdDev r1_bv23_StdDev e1_bv23_StdDev

Genotyped females with records



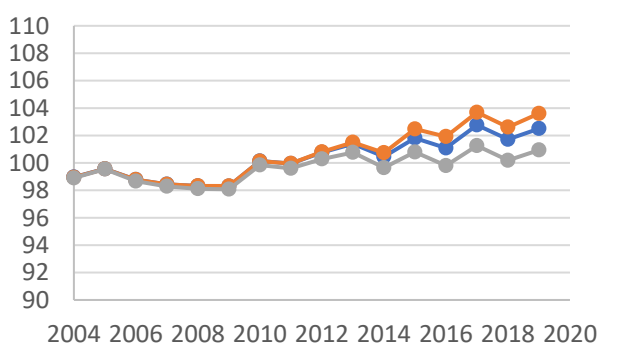
f1_bv23_StdDev r1_bv23_StdDev e1_bv23_StdDev

Mælkeafgiftsfonden

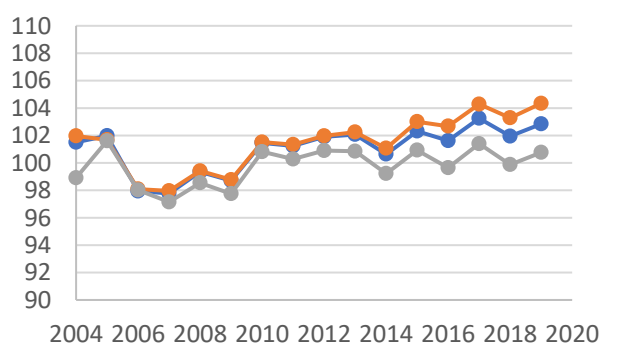
bv24

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	27488	99.0	98.9	98.9	7.9	7.9	7.9	8	101.5	102.0	98.9	11.3	10.2	11.4
2005	26454	99.6	99.6	99.6	8.0	8.0	8.0	34	102.0	101.7	101.6	9.6	9.2	7.6
2006	26692	98.8	98.8	98.7	8.4	8.4	8.4	52	97.9	98.1	98.0	12.6	12.4	11.5
2007	25228	98.4	98.4	98.3	8.2	8.1	8.2	101	97.8	98.0	97.1	10.4	10.3	8.6
2008	26503	98.3	98.3	98.1	8.2	8.2	8.2	166	99.3	99.4	98.5	9.0	8.8	7.0
2009	27324	98.3	98.3	98.1	7.9	7.8	7.8	292	98.7	98.8	97.7	9.7	9.4	7.7
2010	23362	100.1	100.1	99.8	8.1	8.0	8.0	2203	101.5	101.5	100.8	10.1	9.9	8.3
2011	21868	100.0	100.0	99.6	8.1	8.1	8.0	3405	101.2	101.3	100.3	10.1	9.8	8.2
2012	19390	100.8	100.8	100.3	8.0	8.0	7.9	3458	101.9	102.0	100.9	9.9	9.6	8.1
2013	21082	101.4	101.5	100.8	8.9	8.8	8.8	3743	102.1	102.2	100.8	10.6	10.3	8.7
2014	20086	100.5	100.7	99.6	8.9	8.8	8.8	3941	100.6	101.1	99.2	10.5	10.1	8.8
2015	17001	101.8	102.5	100.8	8.6	8.0	8.5	4966	102.3	103.0	100.9	10.4	9.8	8.5
2016	14018	101.1	101.9	99.8	8.5	7.2	8.3	6708	101.6	102.7	99.6	10.4	9.2	8.5
2017	10875	102.8	103.7	101.3	8.3	6.5	8.2	6834	103.2	104.3	101.4	10.2	8.7	8.3
2018	6024	101.7	102.6	100.2	8.2	6.1	8.1	5447	101.9	103.3	99.9	10.2	8.4	8.2
2019	115	102.5	103.6	100.9	8.2	5.2	7.7	172	102.8	104.3	100.8	10.7	9.1	8.5

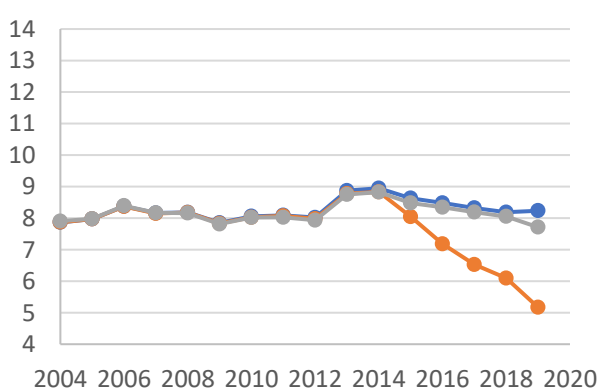
Non genotyped females with records



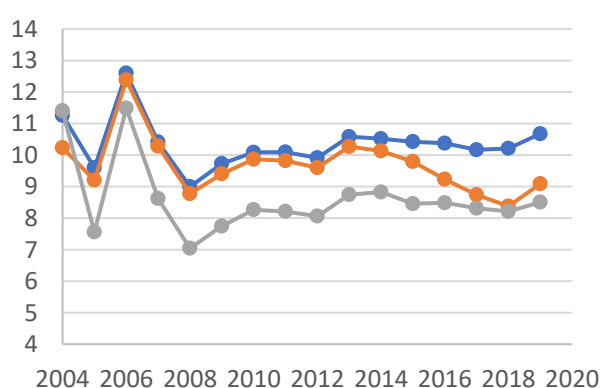
Genotyped females with records



Non genotyped females with records



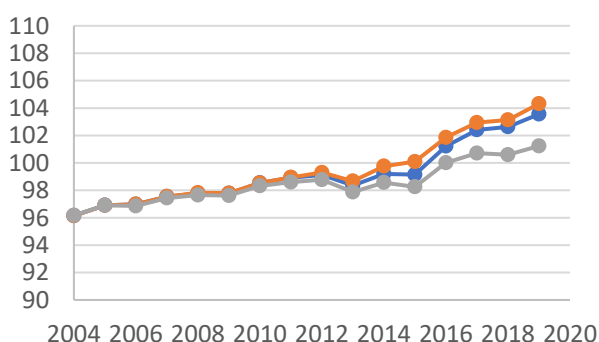
Genotyped females with records



bv25

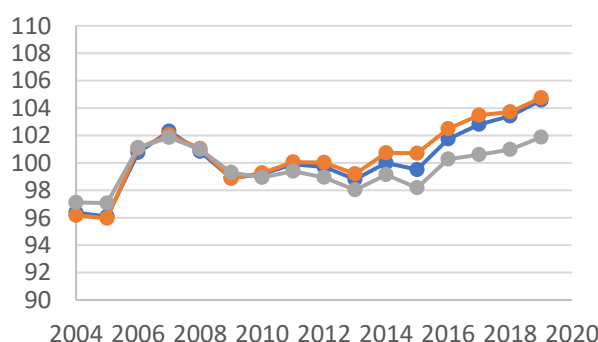
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	26662	96.1	96.1	96.2	7.3	7.4	7.4	8	96.4	96.2	97.1	10.5	9.2	3.9
2005	26460	96.9	96.9	96.9	7.1	7.1	7.1	34	96.1	96.0	97.1	8.0	7.6	6.1
2006	26693	97.0	97.0	96.9	7.0	7.1	7.1	52	100.8	101.1	101.1	9.3	9.0	7.9
2007	25229	97.5	97.5	97.4	7.0	7.0	6.9	101	102.3	102.1	101.9	8.7	8.6	7.6
2008	26503	97.8	97.8	97.7	6.8	6.8	6.7	166	100.8	101.0	101.0	9.0	8.7	7.0
2009	27329	97.8	97.8	97.6	6.6	6.6	6.5	292	98.9	98.9	99.3	8.6	8.3	6.5
2010	23364	98.5	98.5	98.3	6.4	6.4	6.3	2203	99.2	99.3	98.9	8.3	8.1	6.4
2011	21866	98.9	98.9	98.6	6.5	6.5	6.5	3405	99.9	100.1	99.4	8.4	8.2	6.6
2012	19391	99.1	99.3	98.8	6.6	6.6	6.5	3458	99.7	100.0	98.9	8.7	8.5	6.9
2013	21082	98.4	98.7	97.9	6.6	6.6	6.5	3743	98.8	99.2	98.0	8.6	8.3	6.7
2014	20087	99.2	99.8	98.6	7.0	7.0	6.9	3941	100.0	100.7	99.1	9.0	8.7	7.2
2015	17001	99.1	100.1	98.2	6.8	6.3	6.7	4966	99.5	100.7	98.2	8.7	7.9	6.7
2016	14018	101.2	101.9	100.0	7.3	5.7	7.1	6708	101.7	102.5	100.3	9.0	7.5	7.1
2017	10875	102.4	102.9	100.7	7.1	5.1	7.1	6834	102.8	103.5	100.6	9.0	7.3	7.2
2018	6024	102.6	103.1	100.6	7.2	4.7	7.1	5447	103.4	103.7	101.0	9.0	6.9	7.2
2019	115	103.6	104.3	101.2	6.8	4.1	6.7	172	104.6	104.7	101.9	9.5	6.8	7.6

Non genotyped females with records



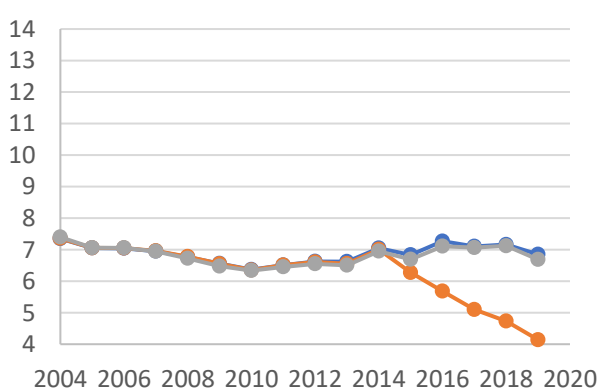
f1_bv25_Mean r1_bv25_Mean e1_bv25_Mean

Genotyped females with records



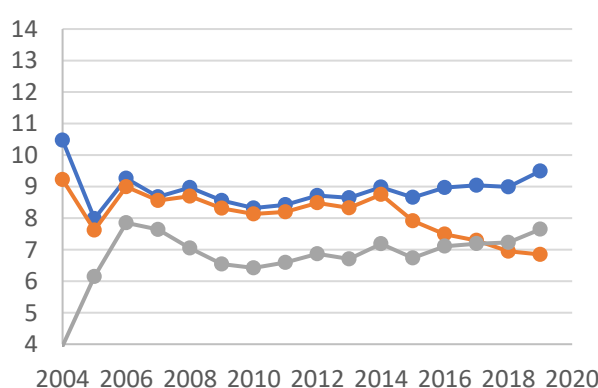
f1_bv25_Mean r1_bv25_Mean e1_bv25_Mean

Non genotyped females with records



f1_bv25_StdDev r1_bv25_StdDev e1_bv25_StdDev

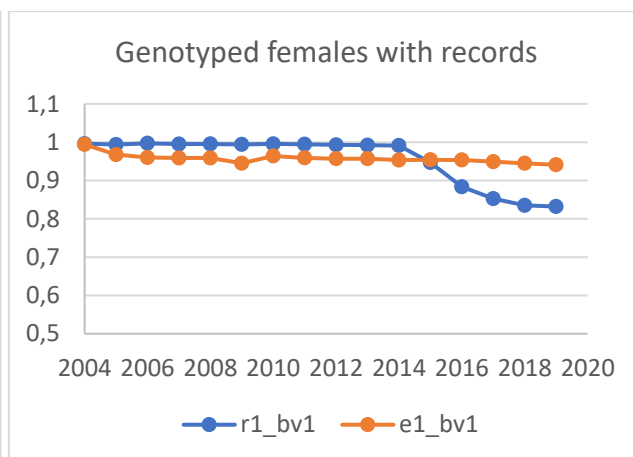
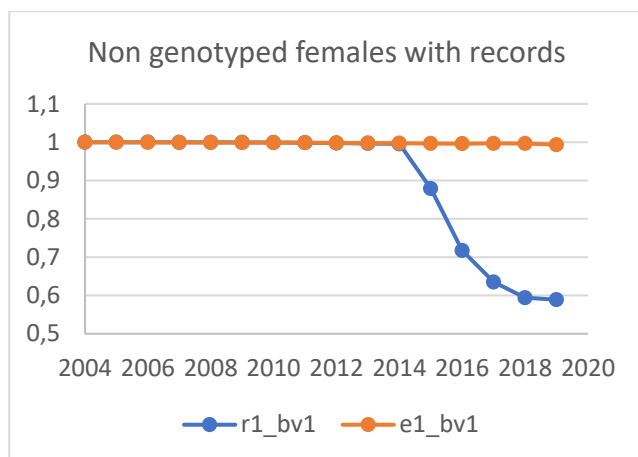
Genotyped females with records



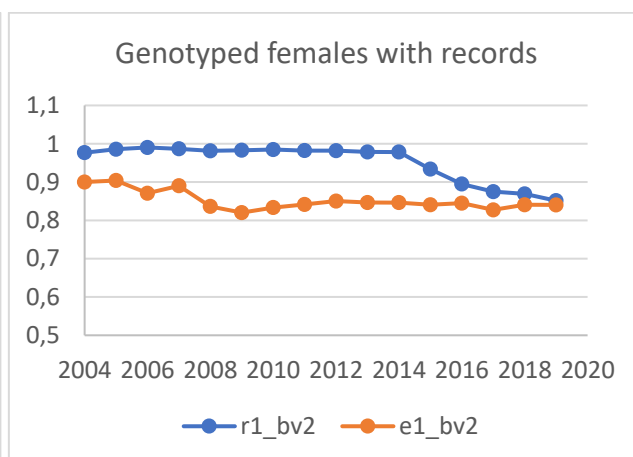
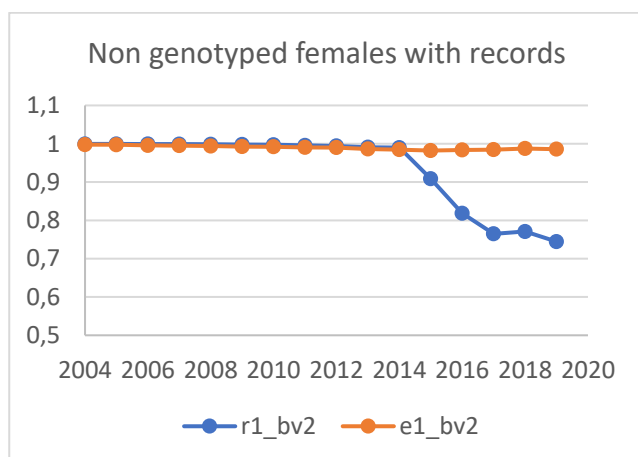
f1_bv25_StdDev r1_bv25_StdDev e1_bv25_StdDev

Correlations

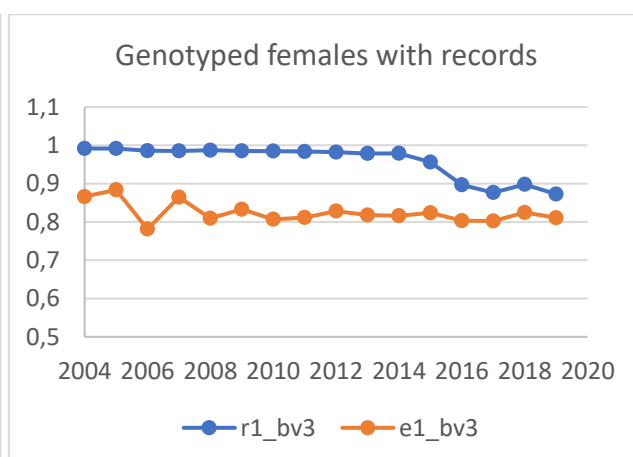
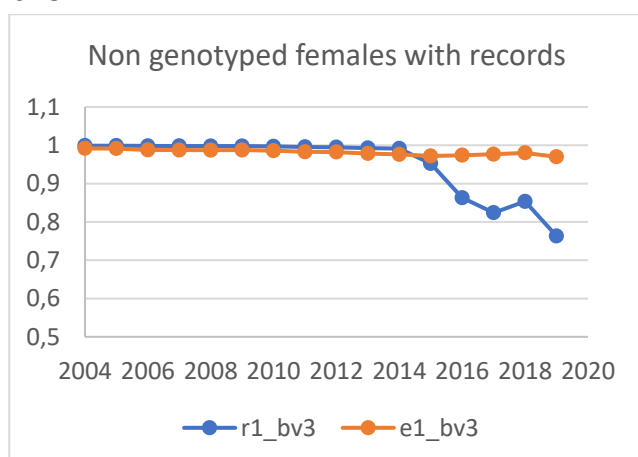
bv1

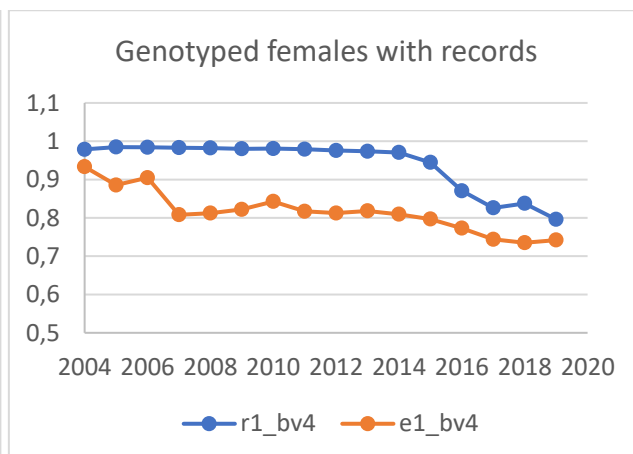
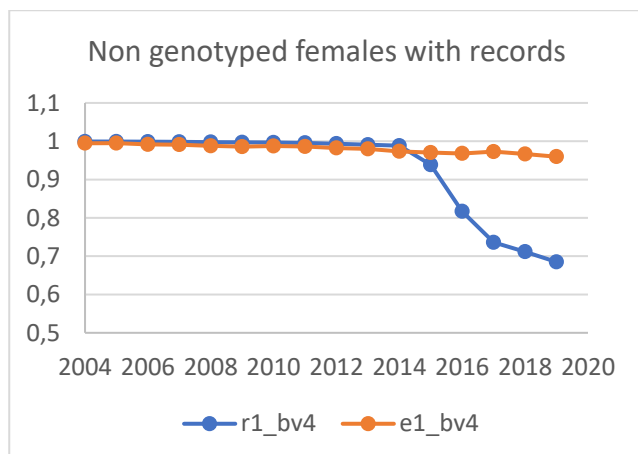
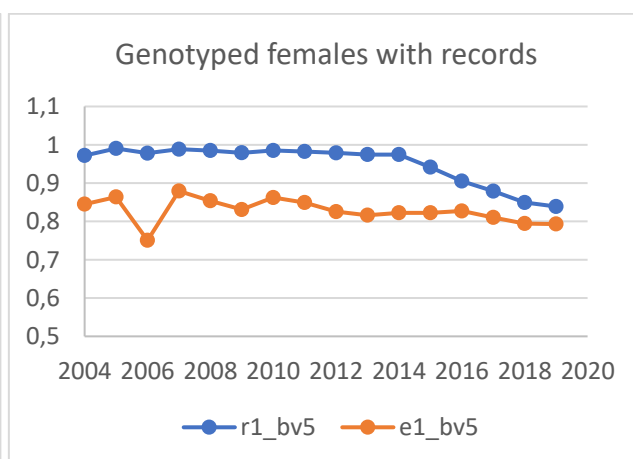
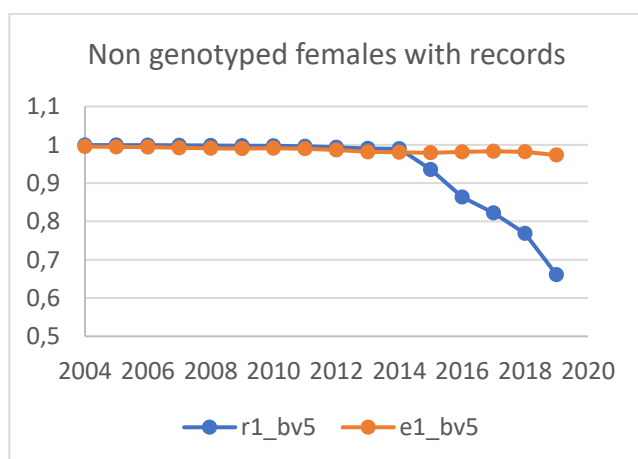
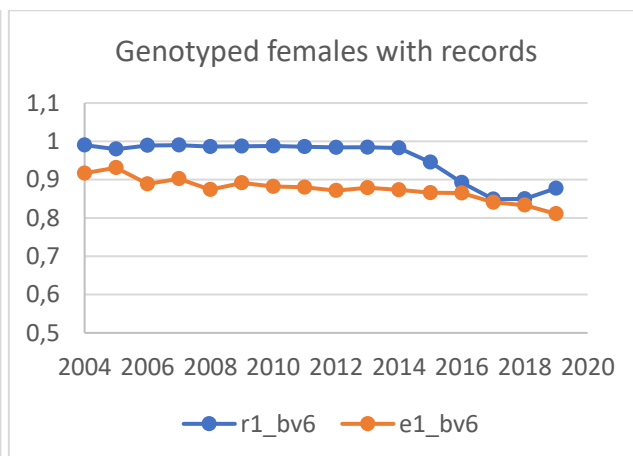
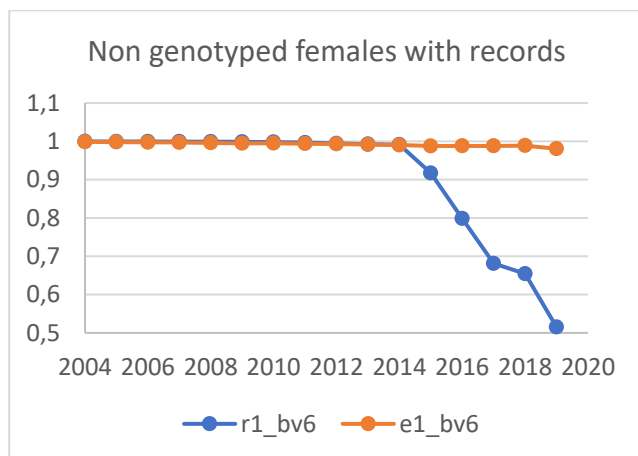


bv2

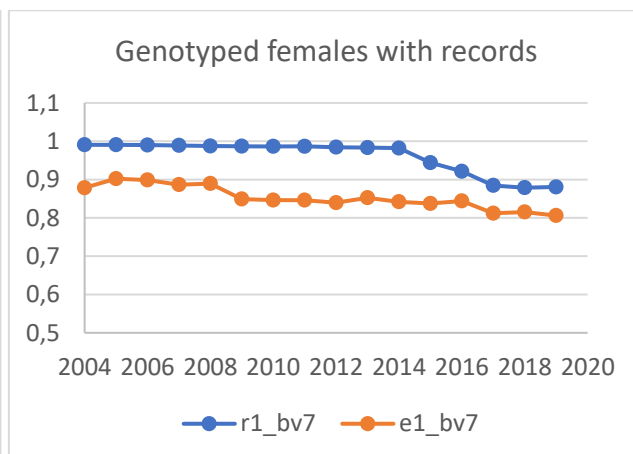
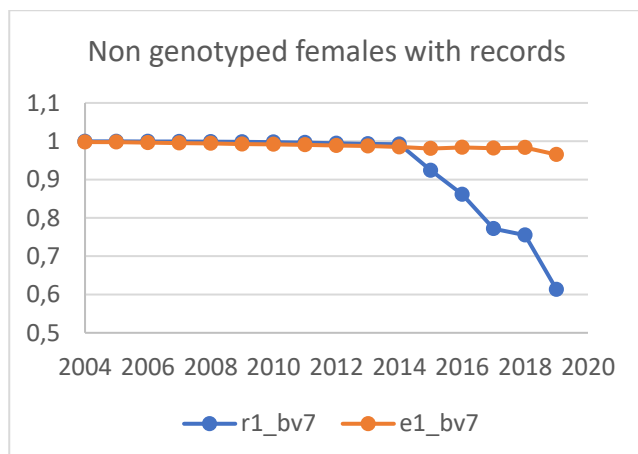


bv3

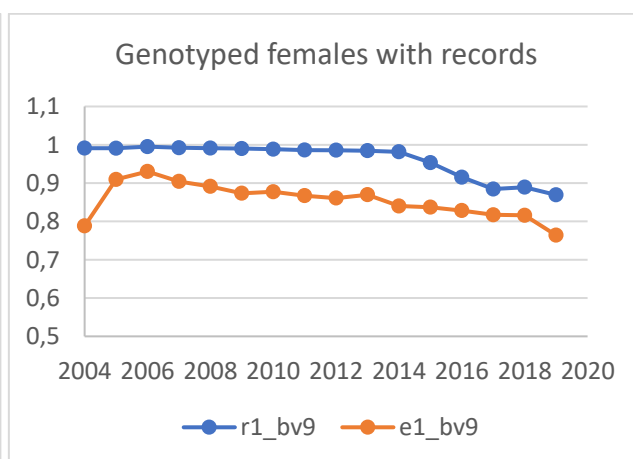
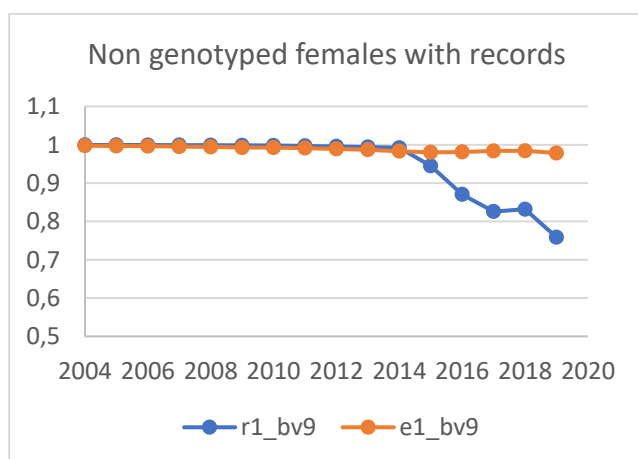


bv4**bv5****bv6**

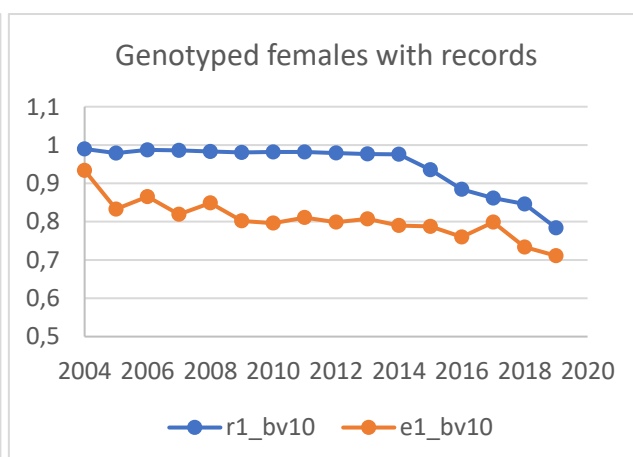
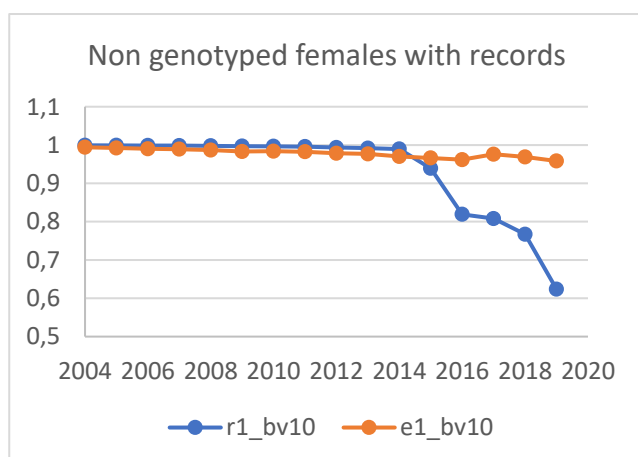
bv7



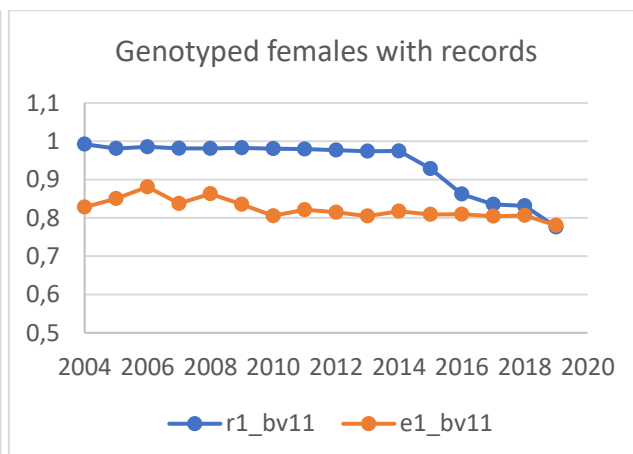
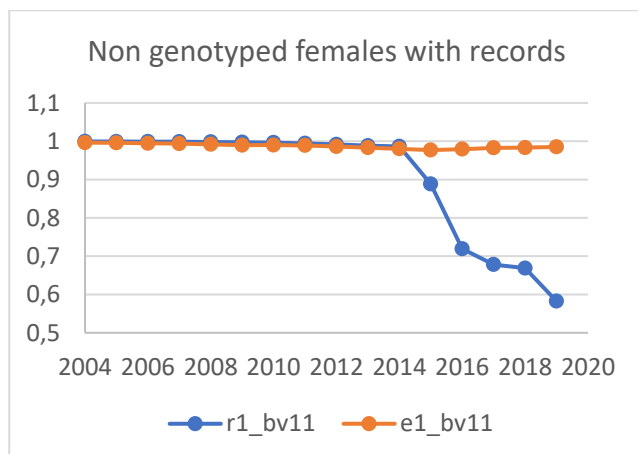
bv9



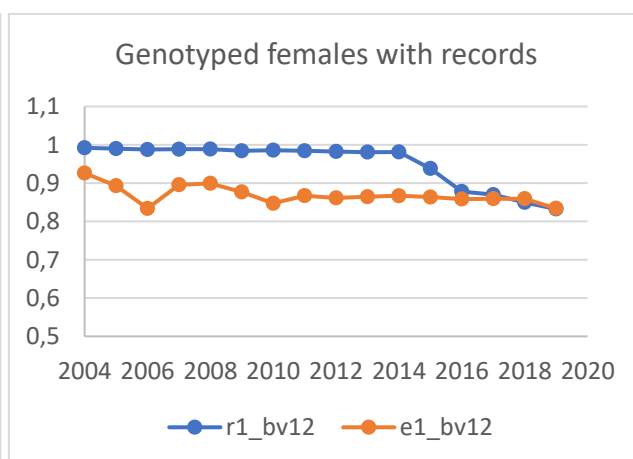
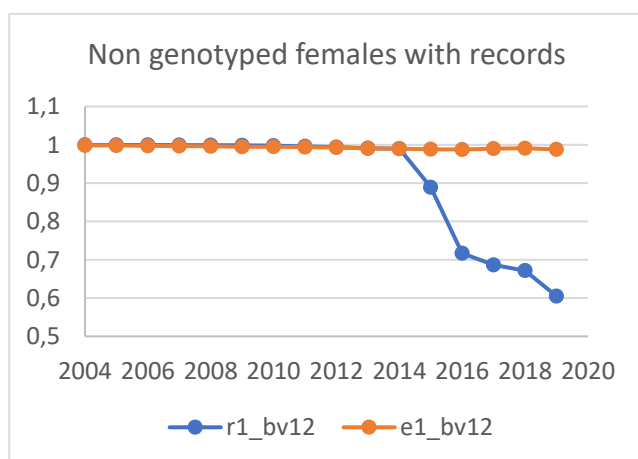
bv10



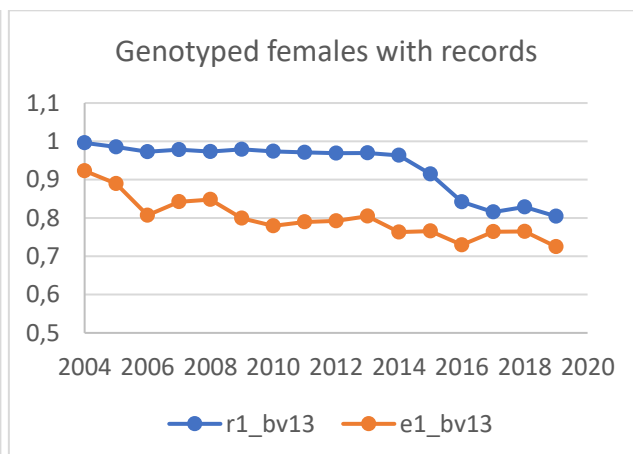
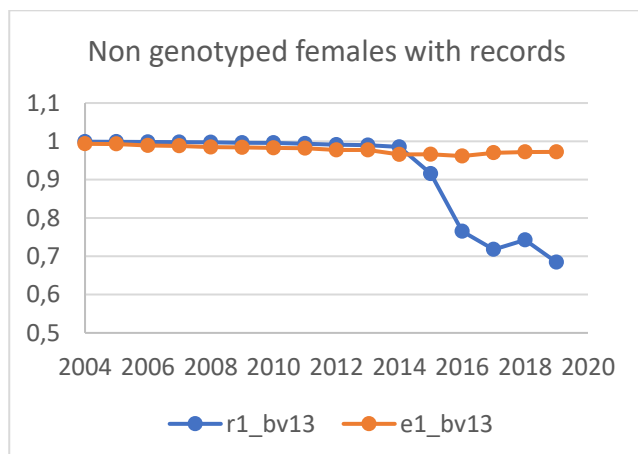
bv11



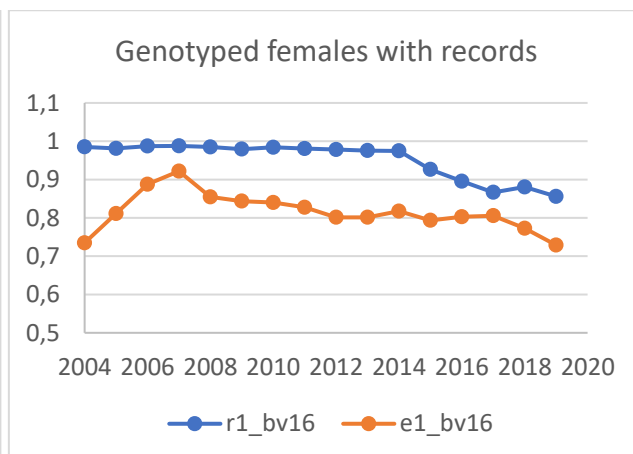
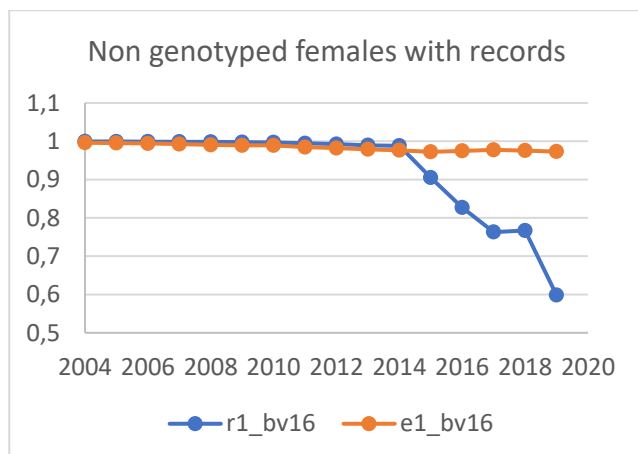
bv12



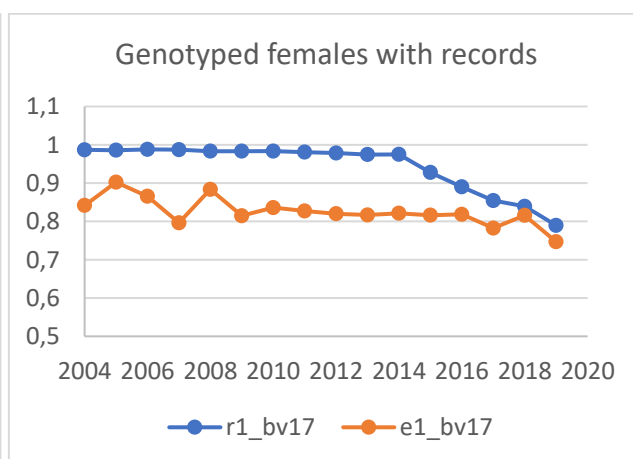
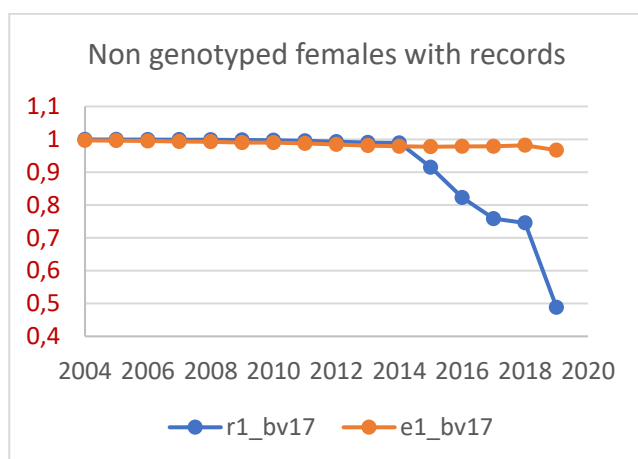
bv13



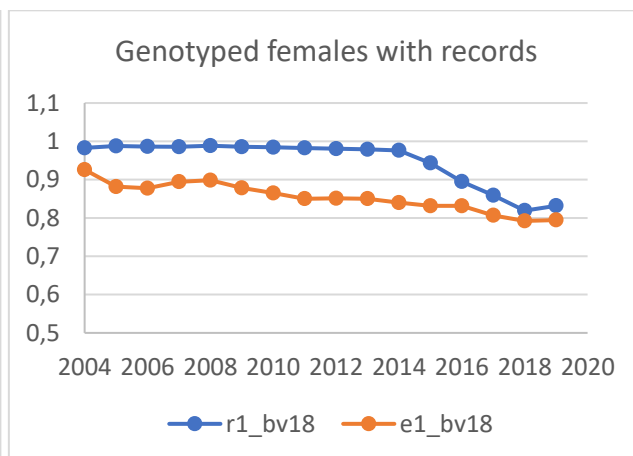
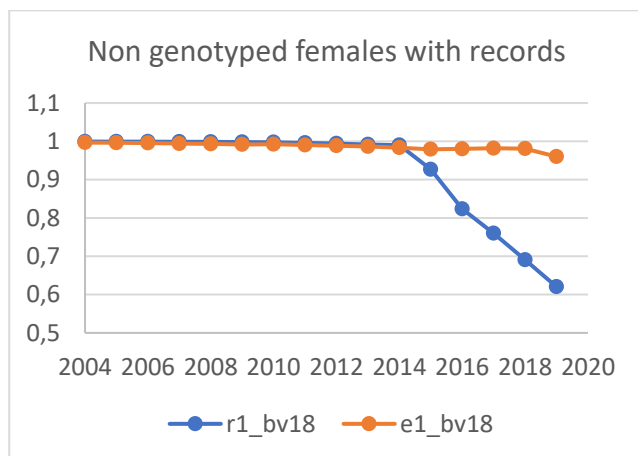
bv16



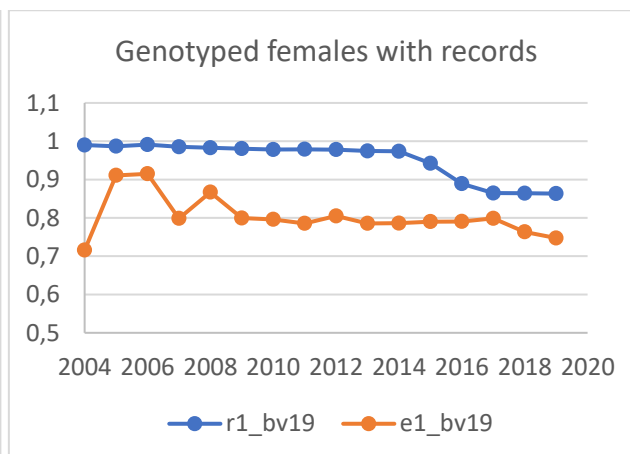
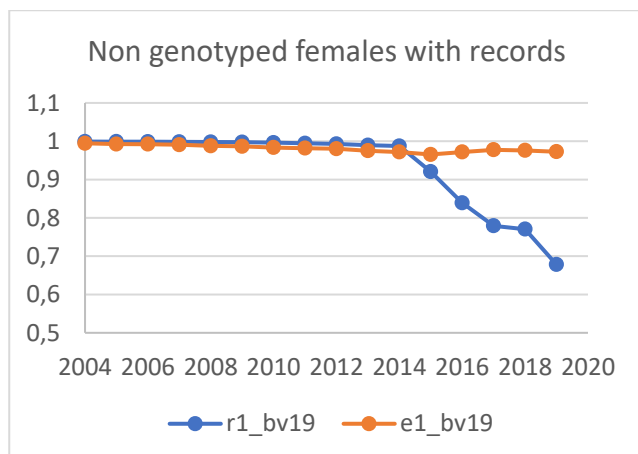
bv17



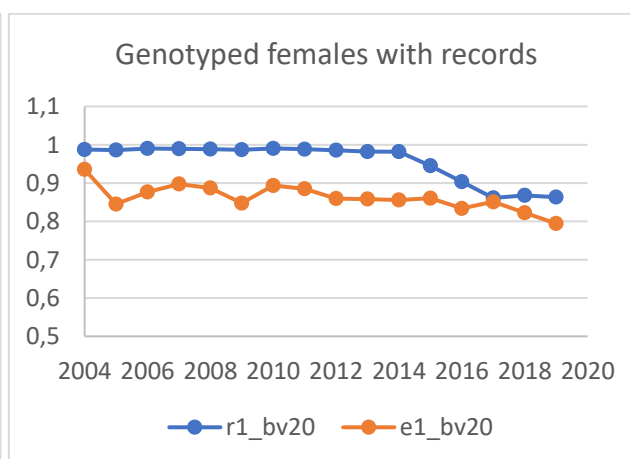
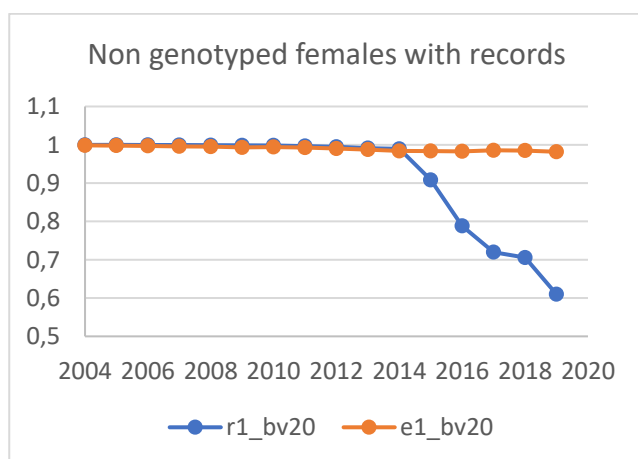
bv18



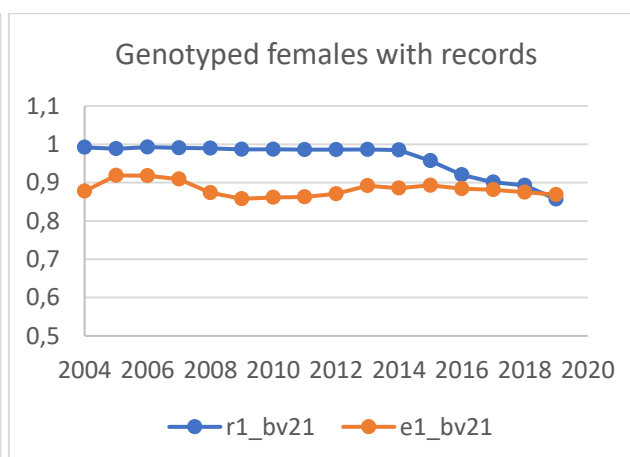
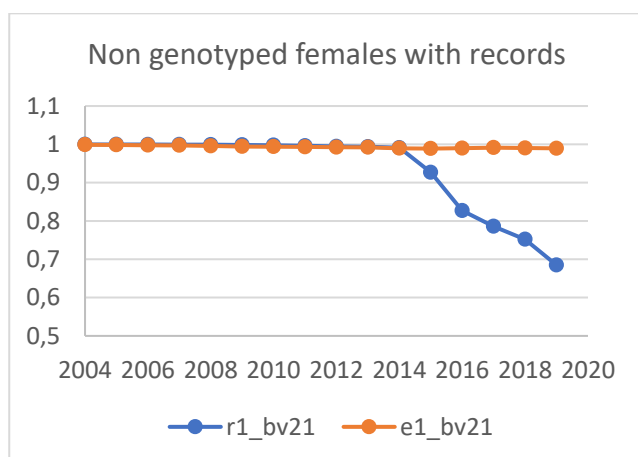
bv19



bv20

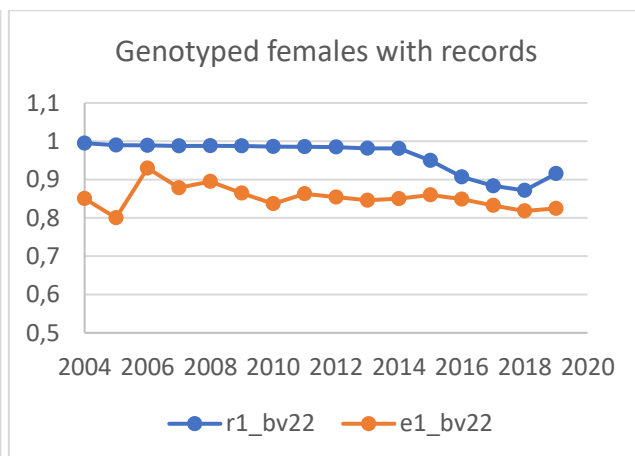
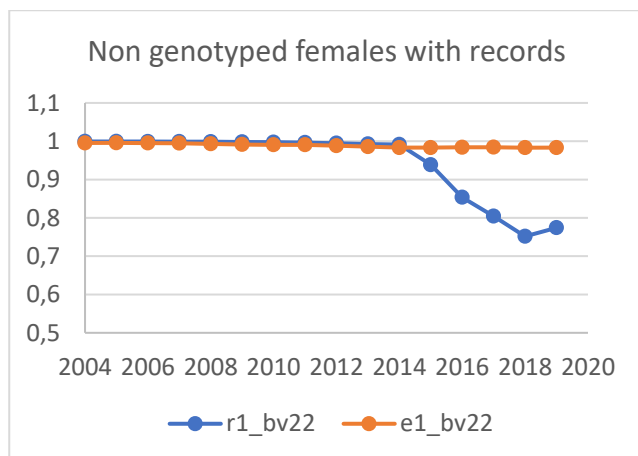


bv21

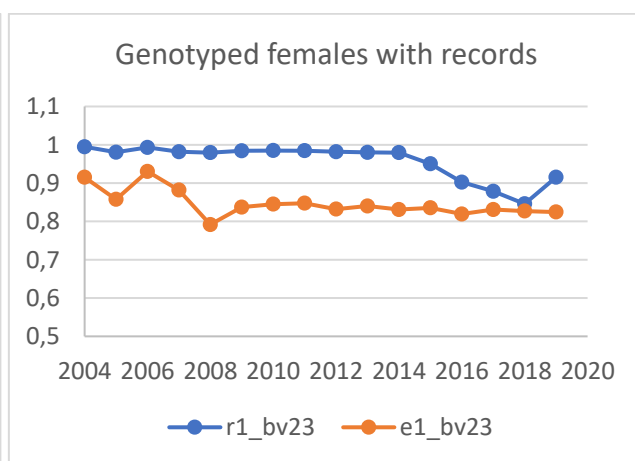
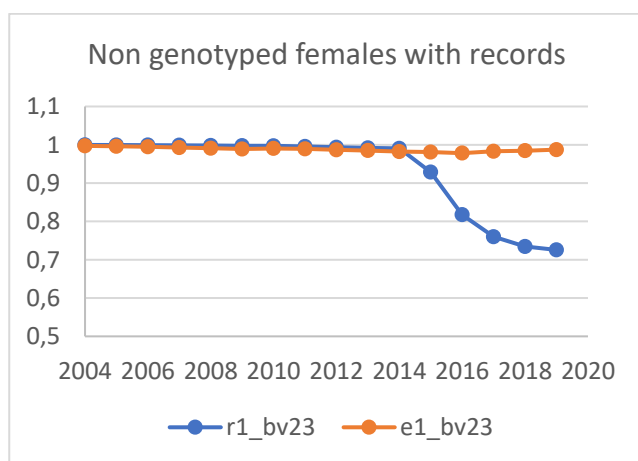


Mælkeafgiftsfonden

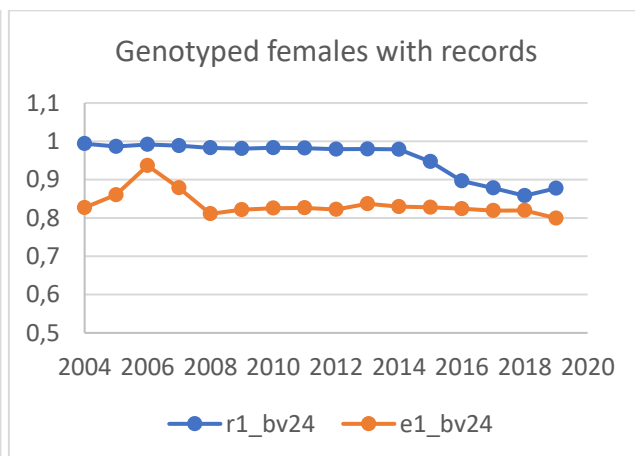
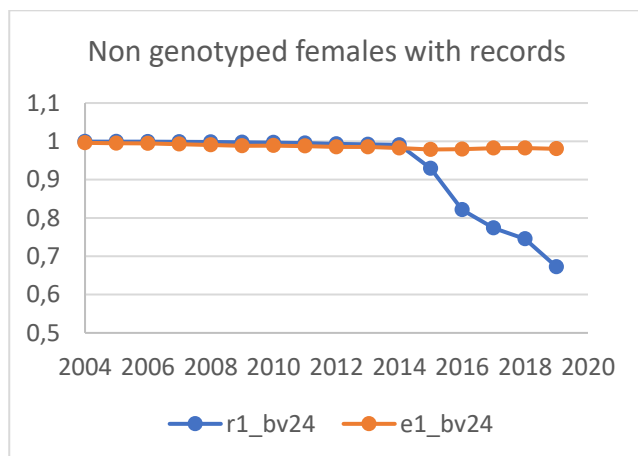
bv22



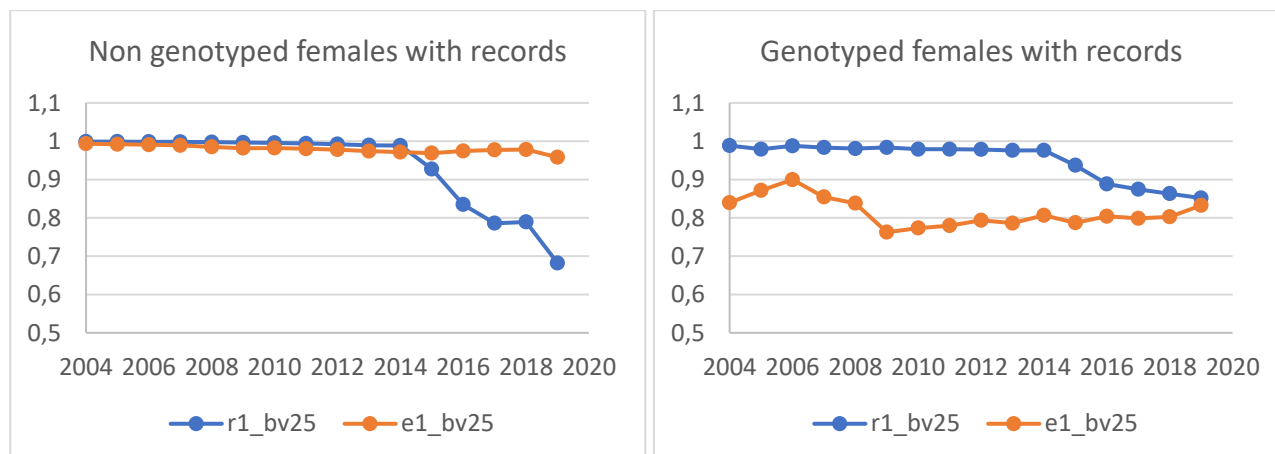
bv23



bv24



bv25



Bulls

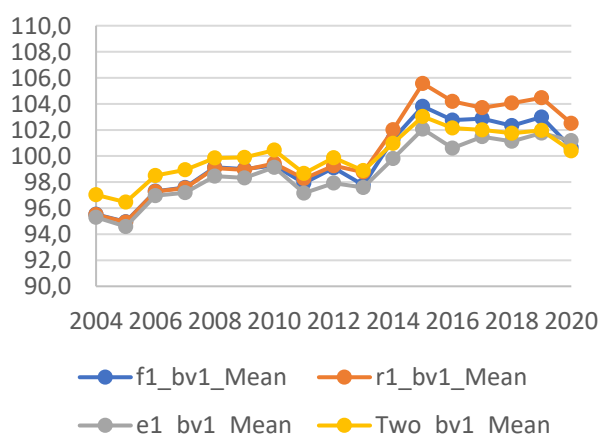
Trend (mean and SD) and correlations

Mælkeafgiftsfonden

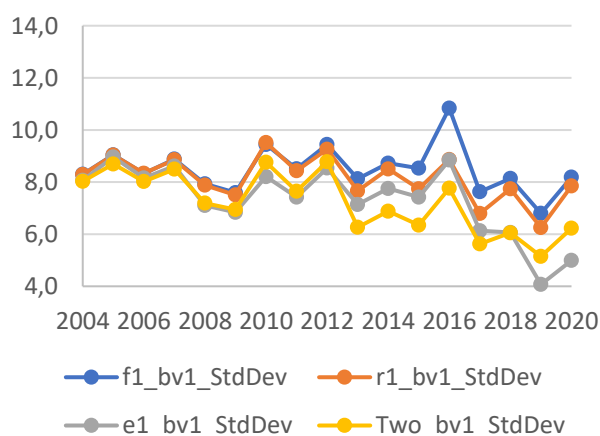
bv1

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	95.5	95.5	95.3	97.0	8.3	8.3	8.1	8.0	1.00	0.99	0.99
2005	200	95.0	94.9	94.6	96.5	9.0	9.0	9.0	8.7	1.00	1.00	0.99
2006	194	97.3	97.3	97.0	98.5	8.3	8.3	8.2	8.0	1.00	1.00	0.99
2007	184	97.6	97.5	97.2	98.9	8.9	8.9	8.6	8.5	1.00	0.99	0.99
2008	236	99.1	99.1	98.5	99.8	7.9	7.9	7.1	7.2	0.99	0.91	0.98
2009	216	99.0	98.9	98.3	99.9	7.6	7.5	6.8	6.9	0.99	0.85	0.97
2010	230	99.3	99.4	99.1	100.4	9.4	9.5	8.2	8.8	0.99	0.89	0.98
2011	215	97.9	98.3	97.2	98.7	8.5	8.4	7.4	7.6	0.99	0.89	0.97
2012	151	99.1	99.3	97.9	99.9	9.4	9.3	8.5	8.8	1.00	0.93	0.98
2013	119	97.8	98.8	97.6	98.9	8.1	7.7	7.1	6.3	0.90	0.90	0.97
2014	73	101.3	102.0	99.8	101.0	8.7	8.5	7.8	6.9	0.94	0.90	0.99
2015	50	103.8	105.6	102.1	103.0	8.5	7.7	7.4	6.3	0.87	0.93	0.99
2016	47	102.8	104.2	100.6	102.1	10.8	8.9	8.8	7.8	0.93	0.88	0.99
2017	79	102.9	103.7	101.5	102.0	7.6	6.8	6.1	5.6	0.89	0.69	0.98
2018	63	102.3	104.1	101.1	101.7	8.1	7.7	6.1	6.1	0.92	0.66	0.98
2019	49	103.0	104.5	101.8	102.0	6.8	6.3	4.1	5.1	0.84	0.42	0.97
2020	43	100.6	102.5	101.2	100.4	8.2	7.8	5.0	6.2	0.94	0.59	0.98

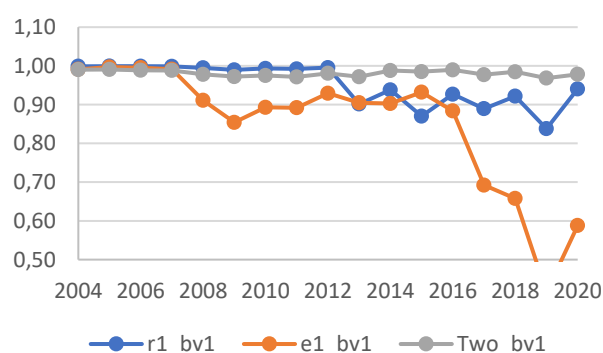
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

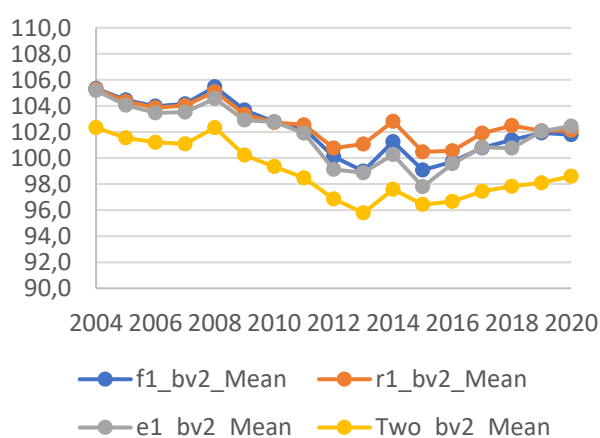


Mælkeafgiftsfonden

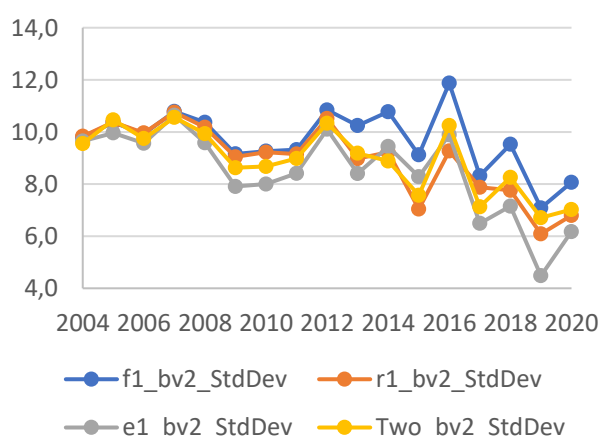
bv2

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	105.3	105.3	105.2	102.3	9.8	9.8	9.7	9.6	1.00	0.98	0.99
2005	200	104.5	104.3	104.1	101.5	10.4	10.4	10.0	10.5	1.00	0.98	0.99
2006	194	104.0	103.9	103.5	101.2	9.9	10.0	9.6	9.7	1.00	0.99	0.99
2007	184	104.2	104.0	103.5	101.1	10.8	10.8	10.6	10.6	1.00	0.98	0.99
2008	236	105.5	105.1	104.6	102.3	10.4	10.2	9.6	9.9	0.99	0.94	0.98
2009	216	103.7	103.3	102.9	100.2	9.2	9.0	7.9	8.6	0.99	0.91	0.98
2010	230	102.8	102.7	102.8	99.3	9.3	9.2	8.0	8.7	0.99	0.90	0.98
2011	215	102.3	102.5	101.9	98.5	9.3	9.2	8.4	9.0	0.98	0.89	0.97
2012	151	100.1	100.8	99.1	96.9	10.8	10.5	10.1	10.3	0.99	0.97	0.98
2013	119	99.0	101.1	98.9	95.8	10.2	9.0	8.4	9.2	0.87	0.84	0.98
2014	73	101.3	102.8	100.3	97.6	10.8	9.2	9.4	8.9	0.91	0.91	0.97
2015	50	99.1	100.5	97.8	96.4	9.1	7.0	8.3	7.6	0.83	0.91	0.98
2016	47	99.7	100.6	99.6	96.7	11.9	9.3	9.9	10.2	0.89	0.92	0.99
2017	79	100.8	101.9	100.8	97.4	8.3	7.9	6.5	7.1	0.88	0.75	0.97
2018	63	101.4	102.5	100.8	97.8	9.5	7.8	7.2	8.3	0.88	0.77	0.97
2019	49	101.9	102.1	102.1	98.1	7.1	6.1	4.5	6.7	0.83	0.54	0.95
2020	43	101.8	102.1	102.4	98.6	8.1	6.8	6.2	7.0	0.83	0.62	0.97

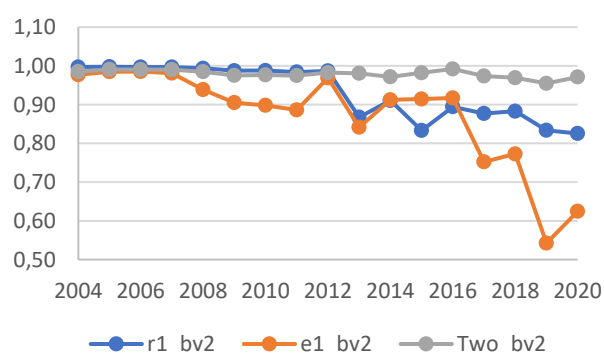
Domestic AI bulls



Domestic AI bulls



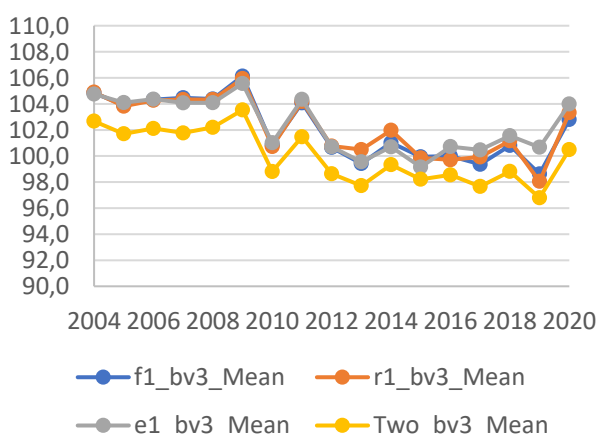
Domestic AI bulls



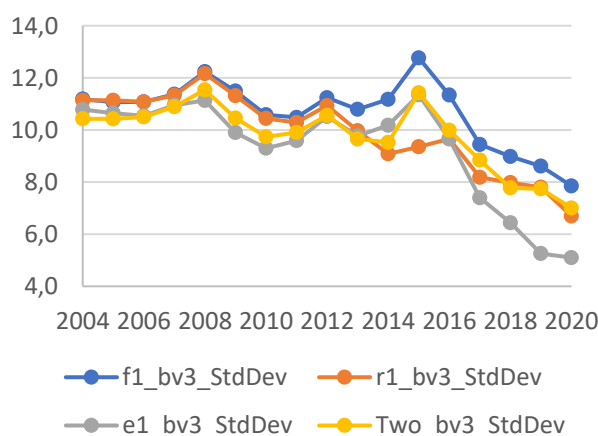
bv3

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	104.8	104.9	104.8	102.7	11.2	11.1	10.8	10.4	1.00	0.97	0.99
2005	200	103.9	103.8	104.1	101.7	11.1	11.1	10.6	10.4	1.00	0.97	0.99
2006	194	104.3	104.3	104.4	102.1	11.1	11.1	10.5	10.5	1.00	0.97	0.99
2007	184	104.5	104.3	104.1	101.8	11.4	11.3	10.9	10.9	0.99	0.96	0.99
2008	236	104.4	104.3	104.1	102.2	12.2	12.2	11.1	11.5	0.99	0.94	0.99
2009	216	106.1	105.9	105.6	103.5	11.5	11.3	9.9	10.5	0.99	0.92	0.98
2010	230	100.8	100.7	101.0	98.8	10.6	10.4	9.3	9.7	0.99	0.89	0.98
2011	215	104.1	104.2	104.3	101.5	10.5	10.3	9.6	9.9	0.99	0.90	0.98
2012	151	100.7	100.8	100.7	98.6	11.2	10.9	10.5	10.6	0.99	0.93	0.98
2013	119	99.4	100.5	99.6	97.7	10.8	10.0	9.8	9.7	0.91	0.88	0.98
2014	73	101.0	102.0	100.7	99.3	11.2	9.1	10.2	9.5	0.91	0.89	0.98
2015	50	99.9	99.9	99.1	98.2	12.8	9.4	11.3	11.4	0.89	0.92	0.99
2016	47	100.0	99.7	100.7	98.5	11.3	9.7	9.7	10.0	0.87	0.90	0.99
2017	79	99.4	99.9	100.5	97.7	9.4	8.2	7.4	8.8	0.91	0.76	0.97
2018	63	100.8	101.2	101.6	98.8	9.0	8.0	6.4	7.8	0.92	0.81	0.96
2019	49	98.6	98.1	100.7	96.8	8.6	7.8	5.3	7.7	0.91	0.65	0.94
2020	43	102.8	103.3	104.0	100.5	7.9	6.7	5.1	7.0	0.87	0.63	0.95

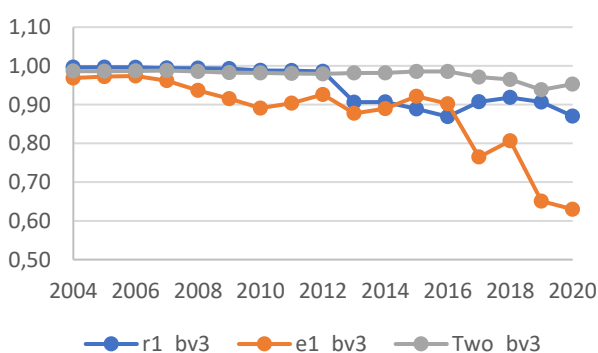
Domestic AI bulls



Domestic AI bulls



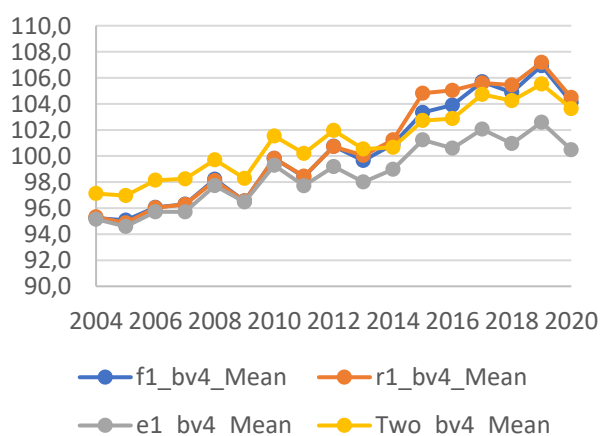
Domestic AI bulls



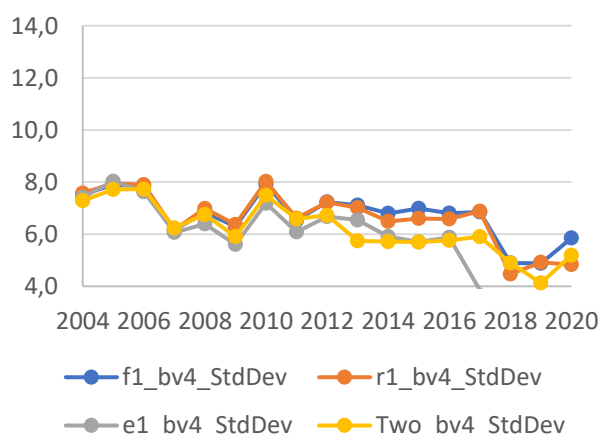
bv4

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	95.2	95.3	95.1	97.1	7.5	7.6	7.4	7.3	1.00	0.96	0.97
2005	200	95.1	94.9	94.6	97.0	7.9	8.0	8.0	7.7	1.00	0.98	0.98
2006	194	96.1	96.0	95.7	98.1	7.8	7.9	7.6	7.7	1.00	0.98	0.98
2007	184	96.3	96.3	95.7	98.2	6.2	6.2	6.1	6.2	0.99	0.94	0.96
2008	236	98.2	98.1	97.7	99.7	6.8	7.0	6.4	6.8	0.99	0.93	0.96
2009	216	96.5	96.5	96.5	98.3	6.3	6.4	5.6	5.9	0.98	0.87	0.96
2010	230	99.8	99.8	99.3	101.5	7.9	8.0	7.2	7.5	0.99	0.92	0.96
2011	215	98.4	98.4	97.7	100.2	6.5	6.6	6.1	6.6	0.98	0.92	0.95
2012	151	100.8	100.7	99.2	102.0	7.2	7.2	6.7	6.7	0.98	0.94	0.96
2013	119	99.7	100.0	98.0	100.5	7.1	7.0	6.5	5.7	0.90	0.90	0.97
2014	73	100.9	101.2	99.0	100.7	6.8	6.5	5.9	5.7	0.83	0.89	0.96
2015	50	103.3	104.8	101.2	102.7	7.0	6.6	5.7	5.7	0.76	0.89	0.97
2016	47	103.9	105.0	100.6	102.9	6.8	6.6	5.9	5.8	0.81	0.90	0.98
2017	79	105.7	105.6	102.1	104.7	6.9	6.9	3.9	5.9	0.90	0.70	0.97
2018	63	104.9	105.5	101.0	104.2	4.9	4.5	3.5	4.9	0.76	0.67	0.95
2019	49	106.9	107.2	102.6	105.5	4.9	4.9	3.0	4.1	0.89	0.49	0.92
2020	43	104.1	104.5	100.5	103.6	5.9	4.8	2.8	5.2	0.91	0.53	0.92

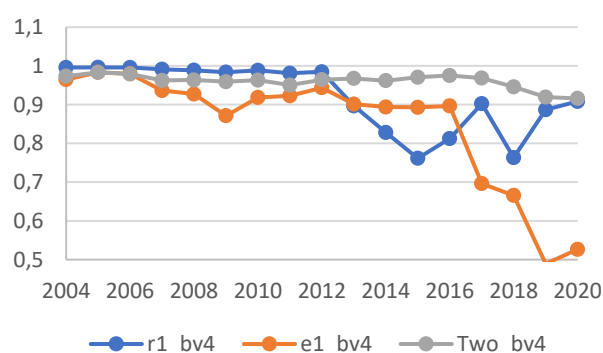
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

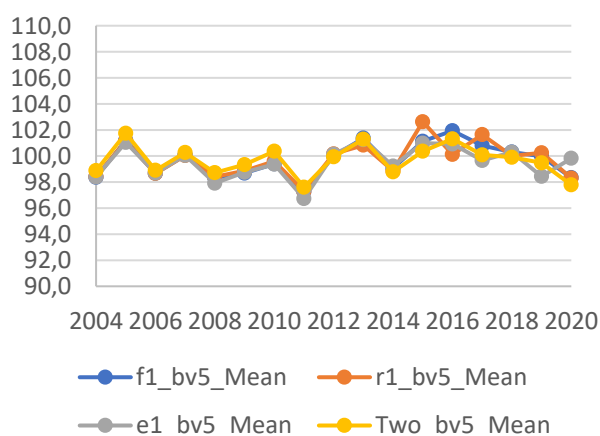


Mælkeafgiftsfonden

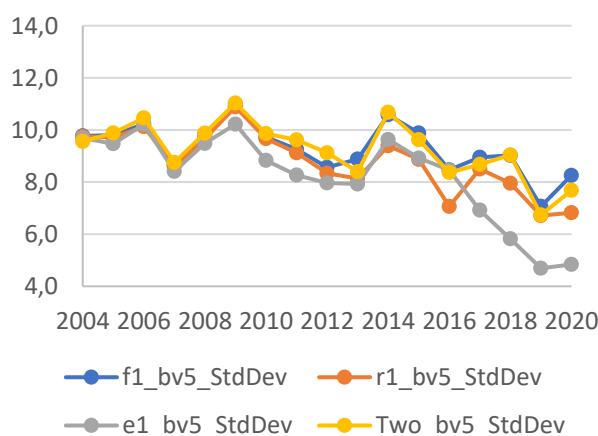
bv5

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	98.4	98.4	98.4	98.9	9.8	9.7	9.7	9.6	1.00	0.97	0.98
2005	200	101.2	101.1	101.0	101.7	9.8	9.7	9.5	9.9	1.00	0.98	0.98
2006	194	98.7	98.7	98.7	98.9	10.2	10.1	10.2	10.5	1.00	0.98	0.98
2007	184	100.1	100.0	100.0	100.3	8.7	8.6	8.4	8.8	0.99	0.96	0.98
2008	236	98.3	98.4	97.9	98.7	9.8	9.7	9.5	9.9	0.99	0.93	0.97
2009	216	98.7	98.9	98.7	99.3	11.0	10.9	10.2	11.0	0.99	0.93	0.98
2010	230	99.4	99.6	99.4	100.4	9.7	9.7	8.8	9.9	0.99	0.90	0.98
2011	215	97.3	97.3	96.7	97.6	9.3	9.1	8.3	9.6	0.99	0.90	0.97
2012	151	100.0	100.2	100.1	99.9	8.6	8.3	8.0	9.1	0.99	0.93	0.97
2013	119	101.4	100.8	101.2	101.3	8.9	8.1	7.9	8.4	0.91	0.88	0.98
2014	73	99.1	98.9	99.2	98.8	10.6	9.4	9.6	10.7	0.91	0.94	0.97
2015	50	101.1	102.6	101.0	100.4	9.9	8.9	8.9	9.6	0.86	0.92	0.98
2016	47	101.9	100.1	100.9	101.3	8.5	7.1	8.5	8.4	0.77	0.88	0.98
2017	79	100.8	101.6	99.7	100.1	8.9	8.5	6.9	8.7	0.92	0.77	0.98
2018	63	100.3	100.0	100.3	99.9	9.0	8.0	5.8	9.0	0.89	0.77	0.97
2019	49	100.0	100.2	98.4	99.5	7.1	6.7	4.7	6.7	0.89	0.60	0.97
2020	43	98.3	98.3	99.8	97.8	8.3	6.8	4.8	7.7	0.89	0.64	0.96

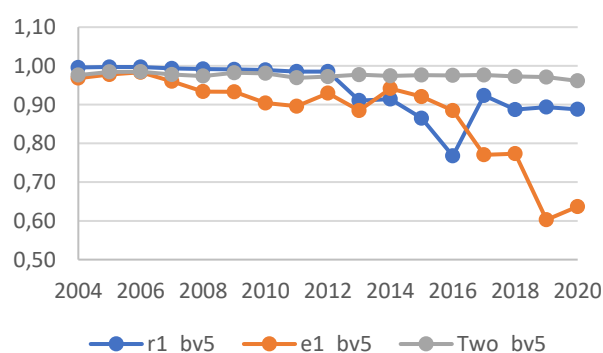
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

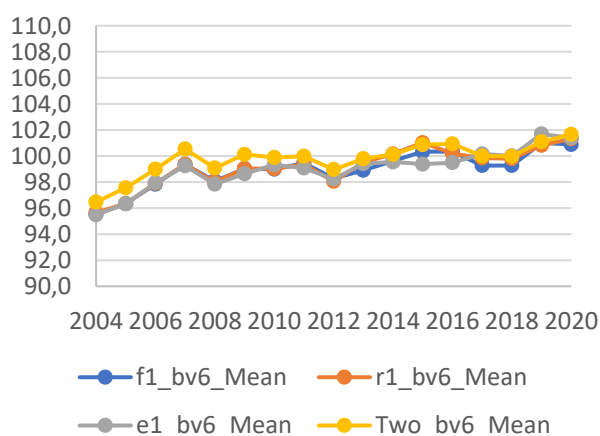


Mælkeafgiftsfonden

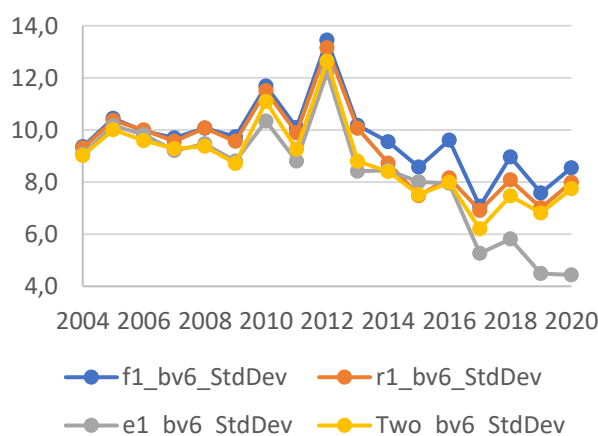
bv6

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	95.5	95.6	95.5	96.5	9.4	9.3	9.1	9.0	1.00	0.98	0.98
2005	200	96.3	96.3	96.3	97.6	10.4	10.4	10.2	10.0	1.00	0.99	0.99
2006	194	97.8	97.9	97.9	99.0	10.0	10.0	9.8	9.6	1.00	0.99	0.99
2007	184	99.4	99.4	99.2	100.5	9.7	9.6	9.2	9.3	1.00	0.98	0.98
2008	236	98.1	98.0	97.8	99.1	10.1	10.1	9.5	9.4	0.99	0.93	0.98
2009	216	99.0	99.0	98.6	100.1	9.7	9.6	8.8	8.7	0.99	0.89	0.98
2010	230	99.0	99.0	99.3	99.9	11.7	11.5	10.3	11.1	0.99	0.91	0.99
2011	215	99.5	99.4	99.1	100.0	10.1	9.9	8.8	9.3	0.99	0.89	0.98
2012	151	98.3	98.1	98.2	99.0	13.4	13.1	12.2	12.6	0.99	0.96	0.99
2013	119	98.9	99.5	99.4	99.8	10.2	10.1	8.4	8.8	0.92	0.90	0.98
2014	73	99.6	100.2	99.5	100.1	9.5	8.7	8.5	8.4	0.85	0.89	0.98
2015	50	100.3	101.0	99.4	100.9	8.6	7.5	8.0	7.5	0.86	0.89	0.99
2016	47	100.3	100.2	99.5	100.9	9.6	8.2	8.0	8.0	0.86	0.84	0.99
2017	79	99.3	99.8	100.2	100.0	7.1	6.9	5.3	6.2	0.84	0.60	0.97
2018	63	99.3	99.8	100.0	100.0	9.0	8.1	5.8	7.5	0.89	0.72	0.98
2019	49	101.0	100.8	101.7	101.1	7.6	7.0	4.5	6.8	0.85	0.49	0.96
2020	43	100.9	101.3	101.4	101.7	8.5	8.0	4.4	7.7	0.93	0.46	0.97

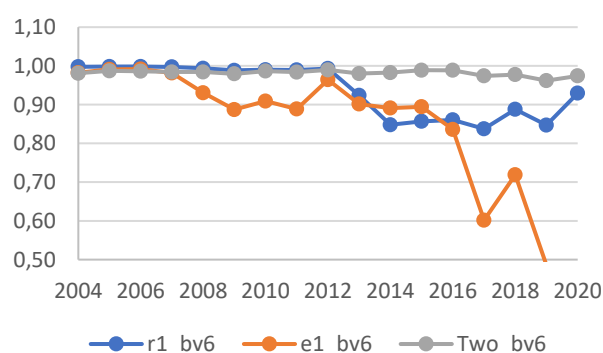
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

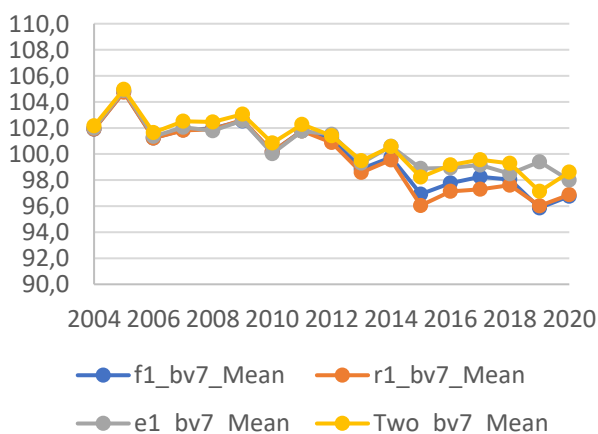


Mælkeafgiftsfonden

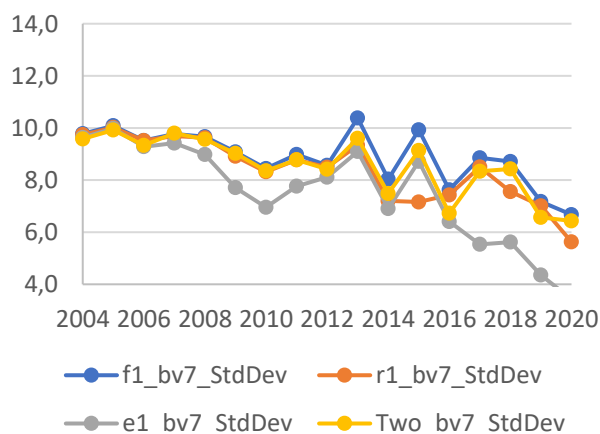
bv7

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	101.9	101.9	102.0	102.2	9.8	9.7	9.6	9.6	1.00	0.99	0.99
2005	200	104.8	104.7	104.9	105.0	10.1	10.0	10.0	9.9	1.00	0.99	0.99
2006	194	101.2	101.2	101.3	101.6	9.5	9.5	9.3	9.3	1.00	0.99	0.99
2007	184	101.8	101.8	102.1	102.5	9.8	9.7	9.4	9.8	1.00	0.98	0.99
2008	236	102.0	101.9	101.8	102.5	9.7	9.6	9.0	9.6	1.00	0.95	0.99
2009	216	102.5	102.6	102.6	103.1	9.1	8.9	7.7	9.0	0.99	0.89	0.98
2010	230	100.2	100.2	100.0	100.8	8.4	8.3	7.0	8.4	0.99	0.87	0.98
2011	215	101.8	101.8	101.8	102.3	9.0	8.8	7.8	8.8	0.99	0.91	0.99
2012	151	101.3	100.9	101.5	101.4	8.6	8.5	8.1	8.4	0.99	0.94	0.98
2013	119	98.9	98.6	99.3	99.5	10.4	9.3	9.1	9.6	0.94	0.93	0.99
2014	73	99.7	99.5	100.6	100.6	8.0	7.2	6.9	7.5	0.93	0.83	0.98
2015	50	96.9	96.0	98.9	98.2	9.9	7.2	8.7	9.1	0.89	0.95	0.99
2016	47	97.8	97.1	98.9	99.2	7.6	7.4	6.4	6.7	0.88	0.83	0.98
2017	79	98.2	97.3	99.2	99.6	8.9	8.5	5.5	8.3	0.95	0.76	0.98
2018	63	98.0	97.6	98.5	99.3	8.7	7.6	5.6	8.4	0.91	0.82	0.99
2019	49	95.9	96.0	99.4	97.1	7.2	7.0	4.4	6.6	0.94	0.66	0.97
2020	43	96.8	96.9	98.0	98.6	6.7	5.6	3.4	6.4	0.94	0.63	0.97

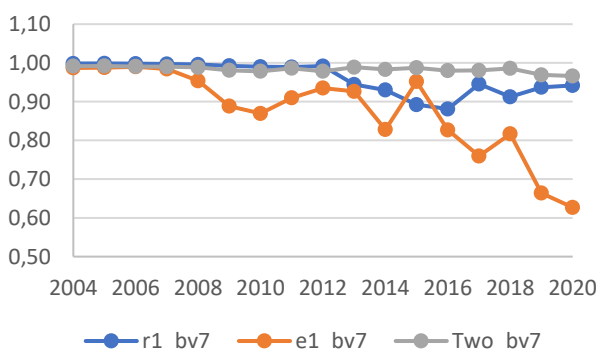
Domestic AI bulls



Domestic AI bulls



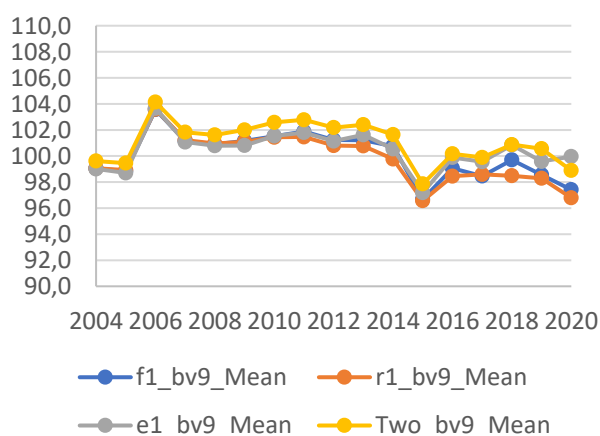
Domestic AI bulls



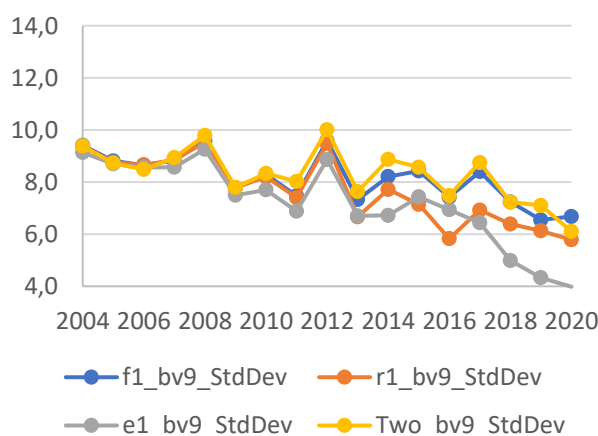
bv9

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	99.1	99.1	99.0	99.6	9.4	9.4	9.1	9.4	1.00	0.98	0.99
2005	200	98.8	98.9	98.7	99.5	8.8	8.8	8.7	8.7	1.00	0.99	0.99
2006	194	103.6	103.6	103.7	104.1	8.6	8.7	8.6	8.5	1.00	0.99	0.99
2007	184	101.2	101.2	101.1	101.8	8.8	8.9	8.6	8.9	1.00	0.98	0.99
2008	236	100.9	101.0	100.8	101.6	9.6	9.5	9.3	9.8	1.00	0.96	0.99
2009	216	101.2	101.1	100.8	102.0	7.8	7.8	7.5	7.8	0.99	0.92	0.99
2010	230	101.5	101.4	101.5	102.6	8.3	8.2	7.7	8.3	0.99	0.92	0.98
2011	215	101.9	101.5	101.8	102.8	7.5	7.4	6.9	8.0	0.99	0.91	0.99
2012	151	101.2	100.8	101.1	102.2	9.6	9.5	8.9	10.0	0.99	0.97	0.99
2013	119	101.2	100.8	101.6	102.4	7.3	6.7	6.7	7.6	0.91	0.91	0.98
2014	73	100.8	99.8	100.5	101.6	8.2	7.7	6.7	8.9	0.93	0.91	0.99
2015	50	96.7	96.6	97.2	97.9	8.4	7.1	7.4	8.6	0.87	0.96	0.99
2016	47	99.1	98.5	99.9	100.2	7.4	5.8	6.9	7.5	0.86	0.92	0.98
2017	79	98.5	98.6	99.6	99.9	8.4	6.9	6.4	8.7	0.91	0.86	0.98
2018	63	99.7	98.5	100.8	100.9	7.2	6.4	5.0	7.2	0.93	0.79	0.97
2019	49	98.6	98.3	99.6	100.6	6.5	6.1	4.3	7.1	0.88	0.64	0.97
2020	43	97.4	96.8	100.0	98.9	6.7	5.8	4.0	6.1	0.94	0.68	0.96

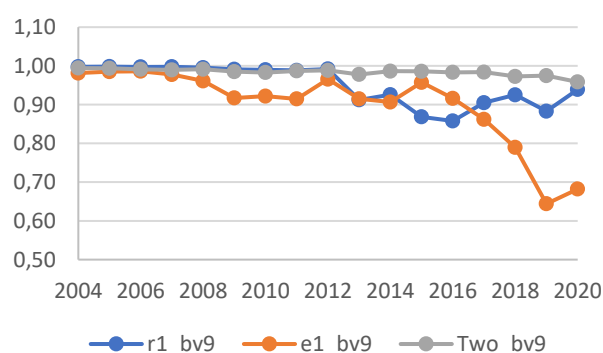
Domestic AI bulls



Domestic AI bulls



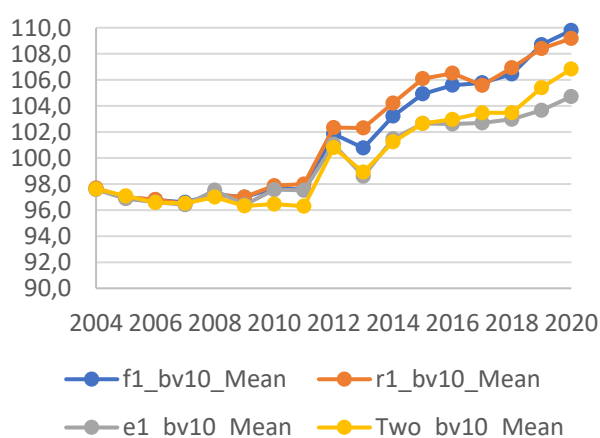
Domestic AI bulls



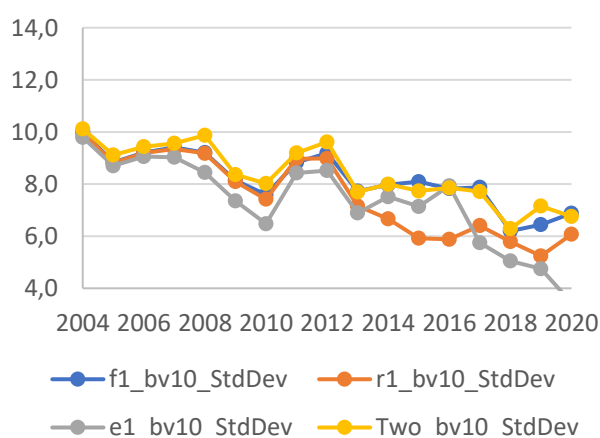
bv10

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	97.7	97.7	97.6	97.6	10.0	10.0	9.8	10.1	1.00	0.97	0.99
2005	200	97.0	97.0	96.9	97.1	8.8	8.8	8.7	9.1	1.00	0.97	0.98
2006	194	96.8	96.8	96.6	96.6	9.2	9.2	9.1	9.4	1.00	0.96	0.98
2007	184	96.6	96.5	96.4	96.5	9.4	9.3	9.0	9.6	0.99	0.96	0.98
2008	236	97.2	97.2	97.5	97.0	9.2	9.2	8.4	9.9	0.99	0.93	0.98
2009	216	97.0	97.0	96.4	96.3	8.1	8.1	7.4	8.4	0.99	0.88	0.96
2010	230	97.7	97.9	97.6	96.5	7.6	7.4	6.5	8.0	0.98	0.86	0.96
2011	215	97.6	98.0	97.5	96.3	8.8	9.0	8.4	9.2	0.99	0.89	0.97
2012	151	101.9	102.3	101.0	100.8	9.2	9.0	8.5	9.6	0.98	0.93	0.98
2013	119	100.8	102.3	98.6	98.9	7.7	7.2	6.9	7.7	0.87	0.81	0.96
2014	73	103.2	104.2	101.5	101.2	8.0	6.7	7.5	8.0	0.85	0.85	0.97
2015	50	104.9	106.1	102.7	102.7	8.1	5.9	7.1	7.7	0.81	0.89	0.98
2016	47	105.6	106.5	102.6	103.0	7.8	5.9	7.9	7.9	0.72	0.84	0.96
2017	79	105.8	105.6	102.7	103.5	7.9	6.4	5.7	7.7	0.87	0.77	0.93
2018	63	106.4	106.9	103.0	103.5	6.2	5.8	5.0	6.3	0.77	0.59	0.93
2019	49	108.7	108.4	103.7	105.4	6.4	5.2	4.8	7.2	0.86	0.51	0.92
2020	43	109.8	109.2	104.7	106.8	6.9	6.1	3.4	6.8	0.91	0.37	0.93

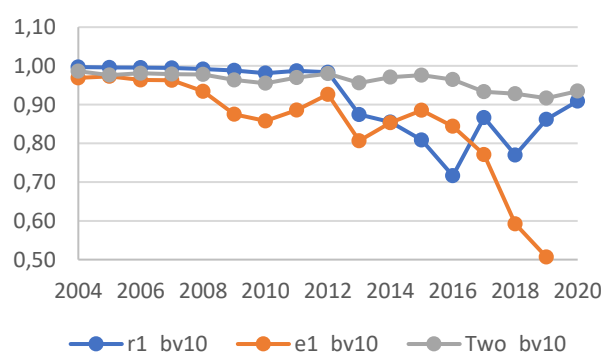
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

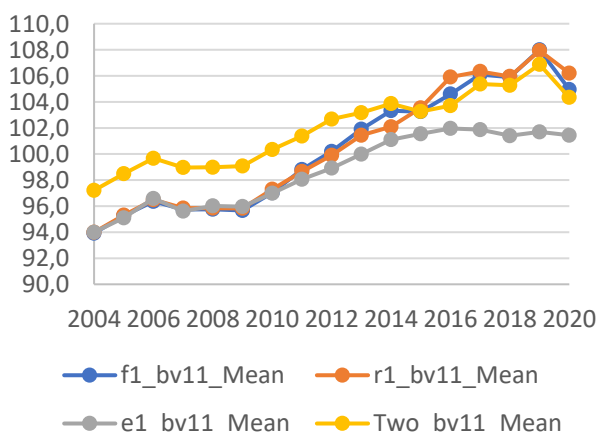


Mælkeafgiftsfonden

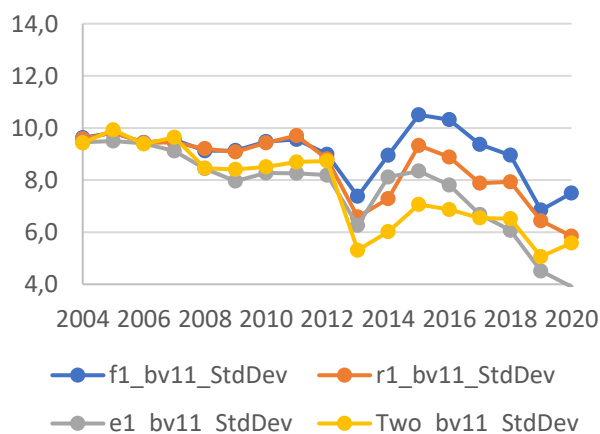
bv11

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	93.9	94.0	94.0	97.2	9.6	9.6	9.5	9.4	1.00	0.98	0.99
2005	200	95.3	95.3	95.1	98.5	9.8	9.8	9.5	9.9	1.00	0.99	0.99
2006	194	96.4	96.5	96.6	99.7	9.4	9.4	9.4	9.4	1.00	0.99	0.99
2007	184	95.7	95.8	95.6	99.0	9.5	9.4	9.1	9.6	0.99	0.96	0.99
2008	236	95.8	95.8	96.0	99.0	9.1	9.2	8.4	8.5	0.99	0.93	0.98
2009	216	95.7	95.8	96.0	99.1	9.1	9.1	8.0	8.4	0.99	0.88	0.97
2010	230	97.0	97.3	97.0	100.3	9.5	9.4	8.3	8.5	0.99	0.89	0.97
2011	215	98.8	98.7	98.1	101.4	9.6	9.7	8.3	8.7	0.99	0.88	0.97
2012	151	100.2	99.9	98.9	102.7	9.0	8.8	8.2	8.7	0.98	0.90	0.98
2013	119	101.9	101.4	100.0	103.2	7.4	6.6	6.3	5.3	0.84	0.82	0.97
2014	73	103.3	102.1	101.1	103.9	9.0	7.3	8.1	6.0	0.85	0.89	0.98
2015	50	103.2	103.5	101.5	103.3	10.5	9.3	8.3	7.1	0.88	0.94	0.99
2016	47	104.6	105.9	102.0	103.7	10.3	8.9	7.8	6.9	0.80	0.88	0.99
2017	79	106.1	106.3	101.9	105.4	9.4	7.9	6.7	6.5	0.86	0.76	0.98
2018	63	105.9	106.0	101.4	105.3	9.0	7.9	6.1	6.5	0.87	0.64	0.98
2019	49	108.0	107.9	101.7	106.9	6.8	6.4	4.5	5.1	0.81	0.58	0.95
2020	43	105.0	106.2	101.4	104.3	7.5	5.9	3.9	5.6	0.87	0.44	0.98

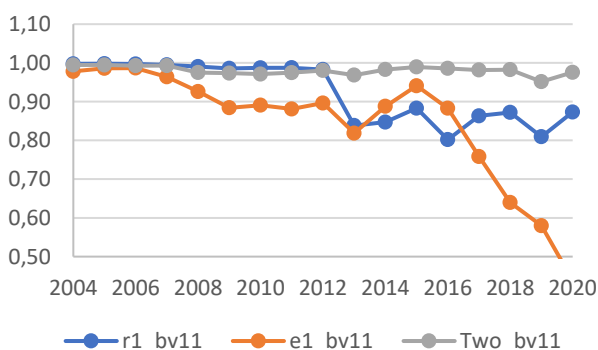
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

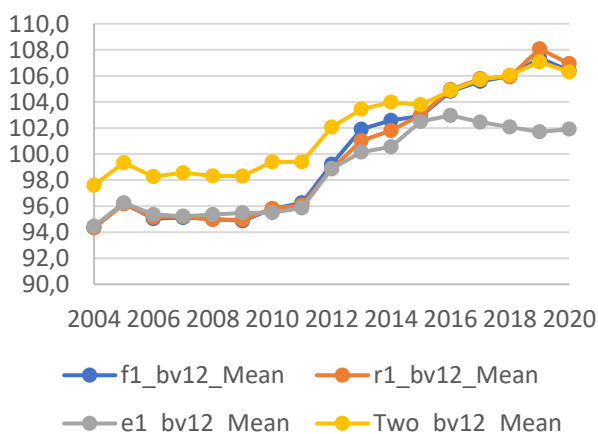


Mælkeafgiftsfonden

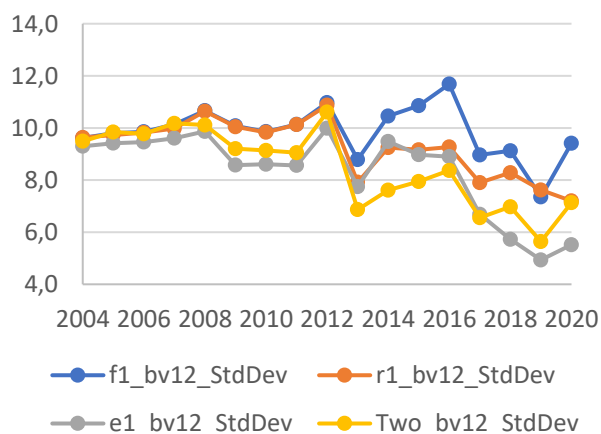
bv12

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	94.3	94.3	94.5	97.6	9.6	9.6	9.3	9.5	1.00	0.98	1.00
2005	200	96.2	96.2	96.2	99.3	9.8	9.7	9.4	9.8	1.00	0.99	1.00
2006	194	95.0	95.1	95.4	98.3	9.9	9.8	9.5	9.8	1.00	0.99	1.00
2007	184	95.1	95.2	95.2	98.6	10.1	10.0	9.6	10.2	1.00	0.98	1.00
2008	236	95.0	95.0	95.4	98.3	10.7	10.6	9.9	10.1	0.99	0.93	0.98
2009	216	94.9	95.0	95.5	98.3	10.1	10.0	8.6	9.2	0.99	0.88	0.98
2010	230	95.8	95.8	95.5	99.4	9.9	9.8	8.6	9.1	0.99	0.87	0.98
2011	215	96.3	96.1	95.9	99.4	10.1	10.1	8.6	9.1	0.99	0.88	0.98
2012	151	99.2	98.8	98.9	102.1	11.0	10.9	10.0	10.6	0.99	0.92	0.99
2013	119	101.9	101.0	100.1	103.4	8.8	7.9	7.7	6.9	0.89	0.84	0.98
2014	73	102.6	101.8	100.6	104.0	10.5	9.2	9.5	7.6	0.93	0.89	0.99
2015	50	102.9	103.0	102.5	103.8	10.9	9.2	9.0	7.9	0.93	0.96	0.99
2016	47	104.8	104.9	103.0	104.9	11.7	9.3	8.9	8.4	0.85	0.86	0.99
2017	79	105.6	105.8	102.4	105.7	9.0	7.9	6.7	6.6	0.87	0.66	0.98
2018	63	106.0	105.9	102.1	106.0	9.1	8.3	5.7	7.0	0.88	0.60	0.99
2019	49	107.4	108.1	101.7	107.1	7.4	7.6	4.9	5.6	0.87	0.44	0.97
2020	43	106.4	106.9	101.9	106.3	9.4	7.2	5.5	7.1	0.83	0.66	0.97

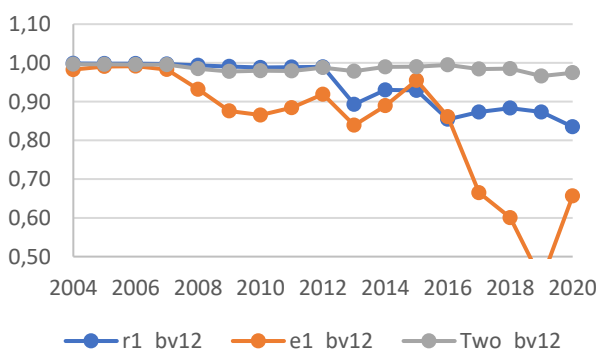
Domestic AI bulls



Domestic AI bulls



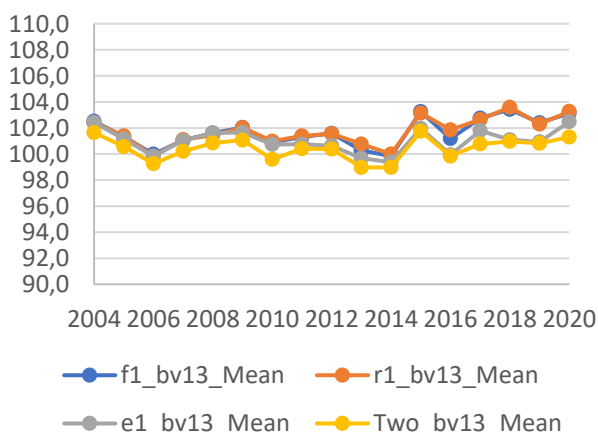
Domestic AI bulls



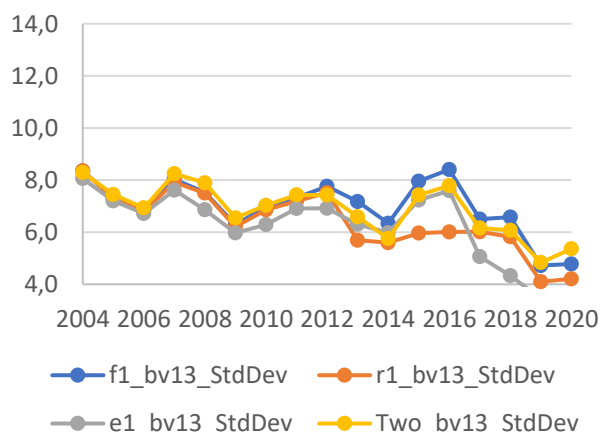
bv13

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	102.5	102.4	102.4	101.6	8.3	8.4	8.1	8.3	0.99	0.96	0.97
2005	200	101.3	101.4	101.2	100.6	7.3	7.3	7.2	7.4	0.99	0.96	0.96
2006	194	100.0	99.8	99.8	99.3	6.9	6.8	6.7	6.9	0.99	0.95	0.96
2007	184	101.1	101.1	101.0	100.2	8.0	7.9	7.6	8.2	0.99	0.96	0.97
2008	236	101.6	101.4	101.6	100.8	7.5	7.5	6.9	7.9	0.99	0.92	0.96
2009	216	102.0	102.0	101.6	101.1	6.3	6.2	6.0	6.5	0.98	0.86	0.93
2010	230	100.9	101.0	100.7	99.6	7.0	6.9	6.3	7.0	0.98	0.85	0.94
2011	215	101.3	101.4	100.7	100.4	7.3	7.2	6.9	7.4	0.98	0.91	0.96
2012	151	101.6	101.6	100.6	100.4	7.8	7.5	6.9	7.4	0.98	0.90	0.96
2013	119	100.3	100.8	99.7	99.0	7.2	5.7	6.3	6.6	0.85	0.87	0.94
2014	73	99.8	100.0	99.4	99.0	6.3	5.6	6.0	5.8	0.75	0.87	0.93
2015	50	103.3	103.1	102.0	101.7	8.0	6.0	7.2	7.4	0.80	0.95	0.97
2016	47	101.2	101.8	99.9	99.8	8.4	6.0	7.6	7.8	0.75	0.90	0.97
2017	79	102.7	102.6	101.8	100.8	6.5	6.0	5.1	6.2	0.82	0.75	0.93
2018	63	103.4	103.6	101.1	101.0	6.6	5.8	4.3	6.1	0.85	0.65	0.90
2019	49	102.4	102.3	100.9	100.8	4.7	4.1	3.5	4.8	0.67	0.54	0.83
2020	43	103.1	103.3	102.5	101.3	4.8	4.2	3.1	5.4	0.87	0.44	0.88

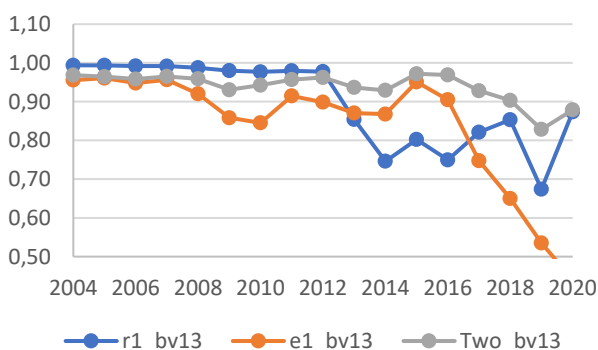
Domestic AI bulls



Domestic AI bulls



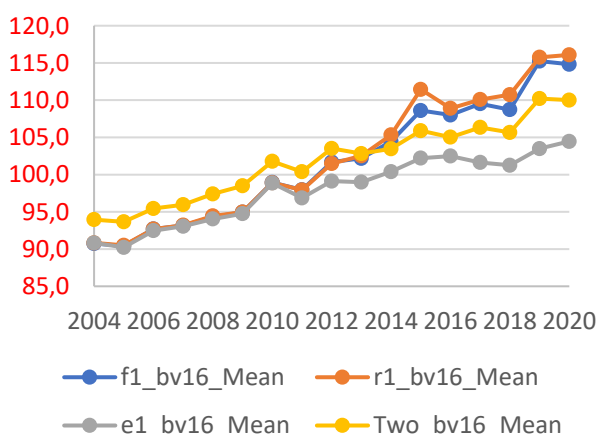
Domestic AI bulls



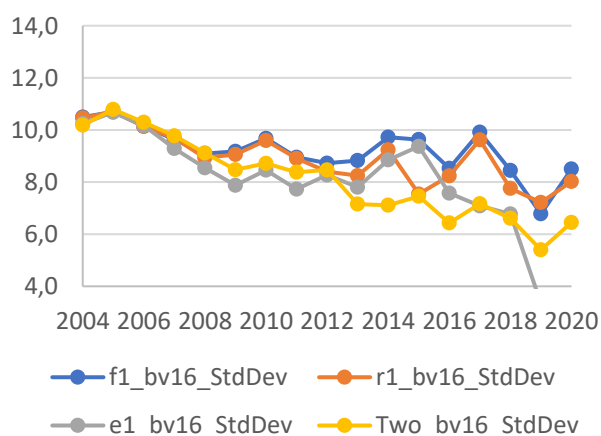
bv16

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	90.7	90.8	90.8	94.0	10.5	10.5	10.2	10.2	1.00	0.98	0.97
2005	200	90.4	90.5	90.2	93.7	10.7	10.7	10.7	10.8	1.00	0.98	0.98
2006	194	92.7	92.7	92.5	95.5	10.1	10.1	10.2	10.3	1.00	0.98	0.98
2007	184	93.1	93.2	93.1	96.0	9.6	9.7	9.3	9.8	1.00	0.97	0.97
2008	236	94.3	94.5	94.0	97.4	9.1	8.9	8.5	9.1	0.99	0.89	0.96
2009	216	94.9	95.0	94.7	98.5	9.2	9.1	7.9	8.5	0.99	0.89	0.96
2010	230	98.9	98.9	98.9	101.8	9.7	9.6	8.5	8.7	0.99	0.88	0.94
2011	215	98.0	97.9	96.9	100.4	9.0	8.9	7.7	8.4	0.98	0.87	0.96
2012	151	101.7	101.5	99.1	103.5	8.7	8.4	8.3	8.5	0.98	0.93	0.96
2013	119	102.2	102.5	99.0	102.8	8.8	8.2	7.8	7.2	0.87	0.85	0.95
2014	73	104.4	105.3	100.4	103.5	9.7	9.2	8.9	7.1	0.89	0.87	0.96
2015	50	108.6	111.4	102.2	105.9	9.6	7.5	9.4	7.5	0.82	0.91	0.96
2016	47	108.0	108.9	102.5	105.0	8.5	8.2	7.6	6.4	0.81	0.85	0.95
2017	79	109.5	110.1	101.6	106.3	9.9	9.6	7.1	7.2	0.93	0.80	0.95
2018	63	108.7	110.7	101.3	105.7	8.4	7.8	6.8	6.6	0.91	0.77	0.96
2019	49	115.2	115.8	103.5	110.2	6.8	7.2	3.3	5.4	0.90	0.40	0.94
2020	43	114.8	116.1	104.5	110.0	8.5	8.0	3.7	6.5	0.94	0.49	0.95

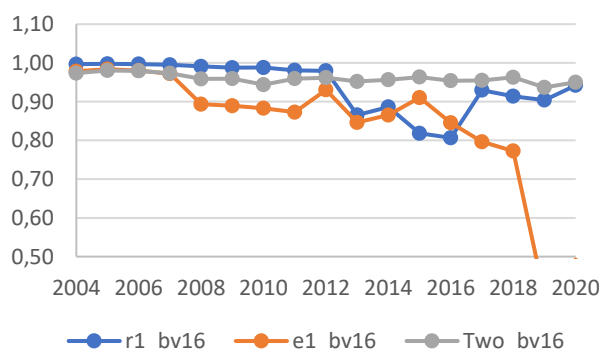
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

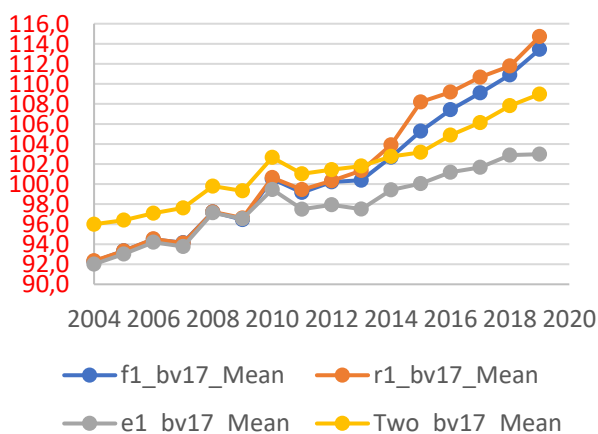


Mælkeafgiftsfonden

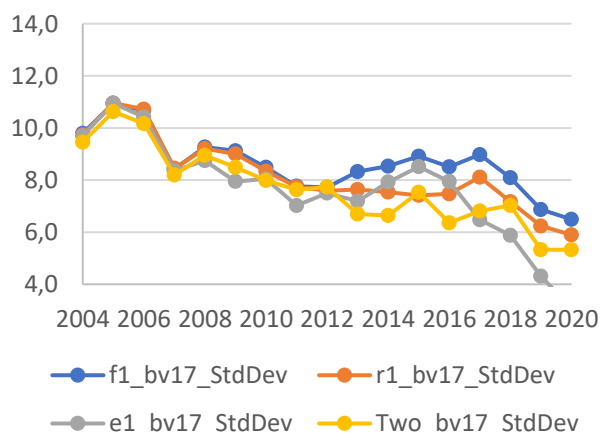
bv17

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	92.3	92.3	92.0	96.0	9.8	9.7	9.7	9.5	1.00	0.98	0.98
2005	200	93.3	93.3	93.0	96.4	10.9	11.0	10.9	10.6	1.00	0.99	0.98
2006	194	94.5	94.5	94.2	97.1	10.7	10.7	10.4	10.2	1.00	0.99	0.98
2007	184	94.2	94.1	93.8	97.6	8.4	8.5	8.4	8.2	0.99	0.96	0.97
2008	236	97.2	97.2	97.1	99.8	9.3	9.2	8.7	8.9	0.99	0.94	0.97
2009	216	96.4	96.6	96.5	99.3	9.1	9.0	7.9	8.5	0.99	0.88	0.97
2010	230	100.5	100.6	99.5	102.7	8.5	8.3	8.0	8.0	0.99	0.92	0.95
2011	215	99.2	99.4	97.5	101.0	7.8	7.7	7.0	7.6	0.98	0.88	0.96
2012	151	100.2	100.3	97.9	101.4	7.7	7.6	7.5	7.7	0.98	0.94	0.96
2013	119	100.4	101.3	97.5	101.8	8.3	7.6	7.2	6.7	0.89	0.87	0.95
2014	73	102.7	103.9	99.4	102.8	8.5	7.5	7.9	6.6	0.87	0.90	0.96
2015	50	105.3	108.2	100.1	103.2	8.9	7.4	8.5	7.5	0.77	0.96	0.97
2016	47	107.4	109.2	101.2	104.9	8.5	7.5	7.9	6.4	0.84	0.90	0.97
2017	79	109.1	110.7	101.7	106.1	9.0	8.1	6.5	6.8	0.93	0.84	0.96
2018	63	110.9	111.8	102.9	107.8	8.1	7.2	5.9	7.0	0.85	0.77	0.97
2019	49	113.4	114.7	103.0	109.0	6.9	6.2	4.3	5.3	0.89	0.64	0.90
2020	43	113.9	114.8	103.9	109.5	6.5	5.9	3.1	5.3	0.93	0.47	0.89

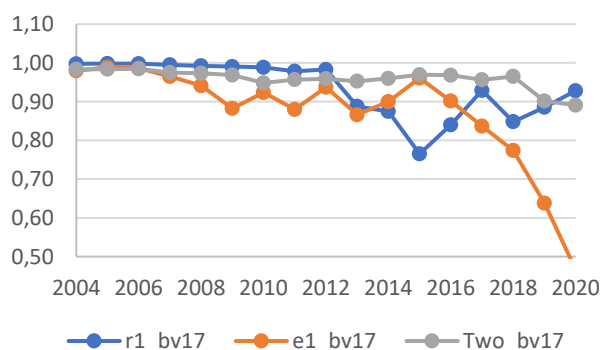
Domestic AI bulls



Domestic AI bulls



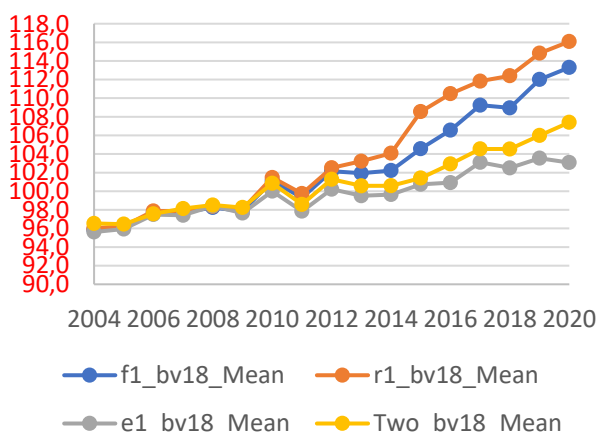
Domestic AI bulls



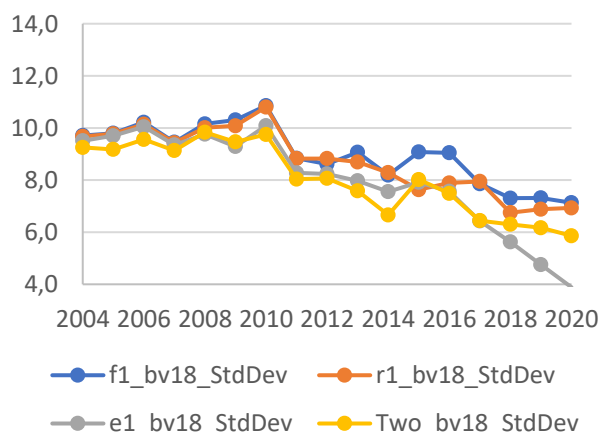
bv18

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	95.8	96.0	95.6	96.5	9.7	9.7	9.5	9.3	1.00	0.98	0.98
2005	200	96.2	96.2	95.9	96.5	9.8	9.8	9.7	9.2	1.00	0.98	0.98
2006	194	97.7	97.9	97.5	97.6	10.2	10.1	10.0	9.6	1.00	0.98	0.98
2007	184	97.7	97.8	97.4	98.1	9.5	9.4	9.3	9.1	0.99	0.97	0.98
2008	236	98.3	98.4	98.4	98.5	10.2	10.0	9.8	9.8	0.99	0.96	0.98
2009	216	97.9	98.1	97.6	98.2	10.3	10.1	9.3	9.5	0.99	0.92	0.98
2010	230	101.1	101.5	100.0	100.9	10.9	10.8	10.1	9.7	0.99	0.94	0.97
2011	215	99.3	99.7	97.9	98.6	8.8	8.8	8.3	8.0	0.98	0.88	0.96
2012	151	102.1	102.5	100.2	101.3	8.6	8.8	8.2	8.1	0.98	0.94	0.97
2013	119	101.9	103.2	99.5	100.6	9.1	8.7	8.0	7.6	0.91	0.92	0.97
2014	73	102.2	104.1	99.6	100.6	8.2	8.3	7.6	6.7	0.90	0.85	0.98
2015	50	104.6	108.6	100.7	101.4	9.1	7.6	7.9	8.0	0.79	0.90	0.98
2016	47	106.6	110.5	100.9	102.9	9.0	7.9	7.6	7.5	0.84	0.88	0.97
2017	79	109.2	111.8	103.1	104.5	7.9	7.9	6.4	6.4	0.89	0.73	0.96
2018	63	109.0	112.4	102.5	104.5	7.3	6.7	5.6	6.3	0.87	0.72	0.96
2019	49	112.0	114.8	103.5	106.0	7.3	6.9	4.8	6.2	0.89	0.58	0.97
2020	43	113.3	116.1	103.1	107.4	7.1	6.9	3.9	5.9	0.88	0.31	0.95

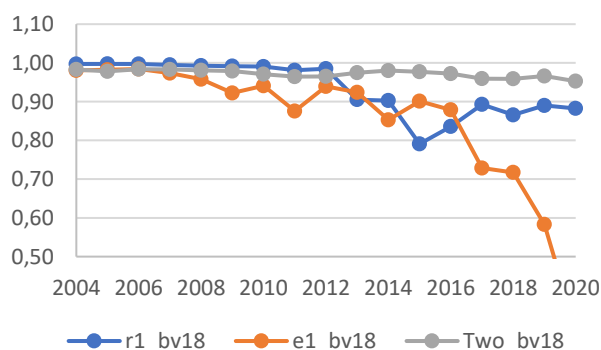
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

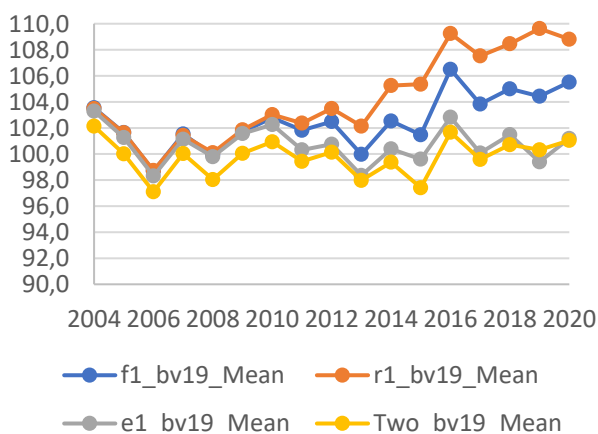


Mælkeafgiftsfonden

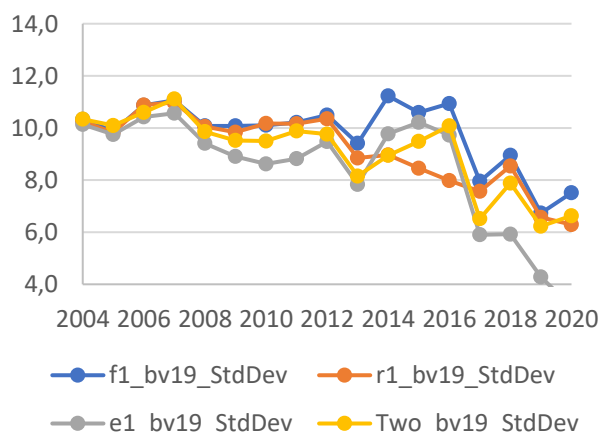
bv19

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	103.5	103.5	103.3	102.1	10.3	10.2	10.1	10.3	1.00	0.97	0.97
2005	200	101.6	101.6	101.3	100.0	9.9	9.8	9.7	10.1	1.00	0.97	0.97
2006	194	98.7	98.7	98.3	97.1	10.9	10.9	10.4	10.6	1.00	0.97	0.97
2007	184	101.5	101.4	101.1	100.0	11.1	11.0	10.6	11.1	0.99	0.97	0.98
2008	236	99.9	100.1	99.8	98.0	10.1	10.1	9.4	9.9	0.99	0.92	0.96
2009	216	101.7	101.9	101.6	100.0	10.1	9.8	8.9	9.5	0.99	0.89	0.96
2010	230	102.8	103.0	102.3	100.9	10.1	10.2	8.6	9.5	0.99	0.89	0.96
2011	215	101.8	102.4	100.3	99.4	10.2	10.2	8.8	9.9	0.98	0.87	0.96
2012	151	102.5	103.5	100.8	100.1	10.5	10.4	9.5	9.8	0.98	0.93	0.96
2013	119	100.0	102.1	98.4	98.0	9.4	8.8	7.8	8.2	0.88	0.85	0.95
2014	73	102.5	105.3	100.4	99.4	11.2	9.0	9.8	8.9	0.86	0.88	0.98
2015	50	101.5	105.4	99.6	97.4	10.6	8.5	10.2	9.5	0.75	0.88	0.98
2016	47	106.5	109.2	102.8	101.7	10.9	8.0	9.7	10.1	0.80	0.90	0.97
2017	79	103.8	107.5	100.1	99.6	8.0	7.6	5.9	6.5	0.87	0.66	0.94
2018	63	105.0	108.5	101.5	100.7	8.9	8.5	5.9	7.9	0.86	0.65	0.95
2019	49	104.4	109.6	99.4	100.3	6.7	6.6	4.3	6.2	0.89	0.28	0.94
2020	43	105.5	108.8	101.2	101.0	7.5	6.3	3.1	6.6	0.90	0.47	0.94

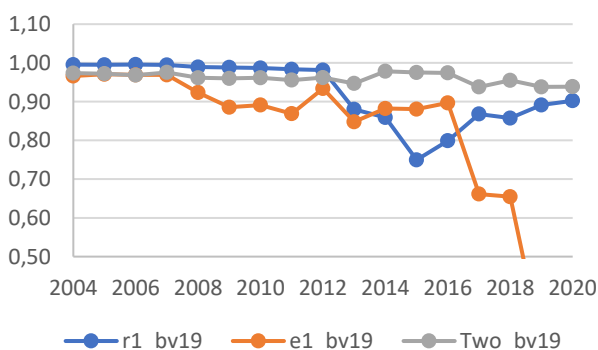
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

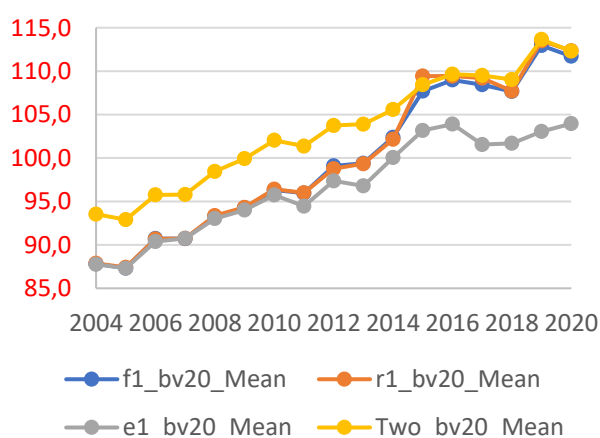


Mælkeafgiftsfonden

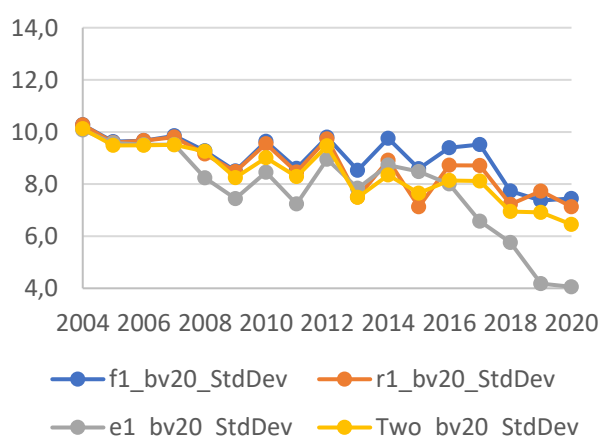
bv20

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	87.8	87.9	87.8	93.5	10.3	10.3	10.1	10.1	1.00	0.99	0.99
2005	200	87.3	87.4	87.3	92.9	9.6	9.6	9.6	9.5	1.00	0.99	0.99
2006	194	90.7	90.7	90.4	95.8	9.7	9.7	9.5	9.5	1.00	0.99	0.98
2007	184	90.7	90.7	90.7	95.8	9.9	9.8	9.5	9.5	1.00	0.98	0.99
2008	236	93.3	93.4	93.0	98.5	9.3	9.2	8.2	9.3	0.99	0.93	0.98
2009	216	94.3	94.3	94.0	99.9	8.5	8.5	7.4	8.2	0.99	0.89	0.97
2010	230	96.3	96.4	95.7	102.0	9.6	9.5	8.5	9.0	0.99	0.90	0.97
2011	215	96.0	96.0	94.5	101.4	8.6	8.5	7.2	8.3	0.99	0.88	0.96
2012	151	99.1	98.8	97.4	103.7	9.8	9.7	9.0	9.5	0.99	0.94	0.97
2013	119	99.4	99.3	96.8	103.9	8.5	7.5	7.8	7.5	0.89	0.85	0.96
2014	73	102.4	102.2	100.0	105.6	9.8	8.9	8.7	8.3	0.91	0.93	0.98
2015	50	107.7	109.4	103.2	108.4	8.6	7.1	8.5	7.7	0.78	0.88	0.97
2016	47	109.0	109.4	103.9	109.6	9.4	8.7	8.0	8.1	0.90	0.91	0.98
2017	79	108.4	109.2	101.5	109.5	9.5	8.7	6.6	8.1	0.93	0.79	0.97
2018	63	107.7	107.7	101.7	109.0	7.7	7.2	5.8	6.9	0.89	0.70	0.98
2019	49	112.9	113.5	103.0	113.6	7.4	7.7	4.2	6.9	0.89	0.47	0.98
2020	43	111.7	112.4	104.0	112.3	7.4	7.1	4.1	6.4	0.90	0.59	0.95

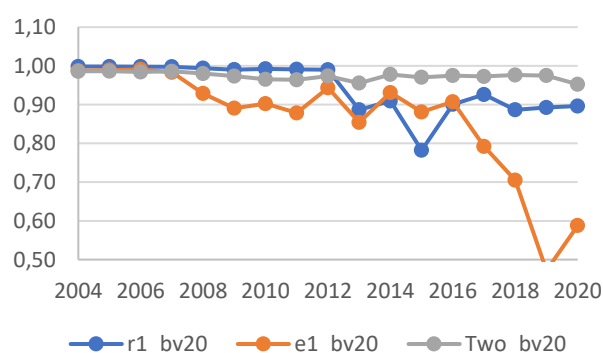
Domestic AI bulls



Domestic AI bulls



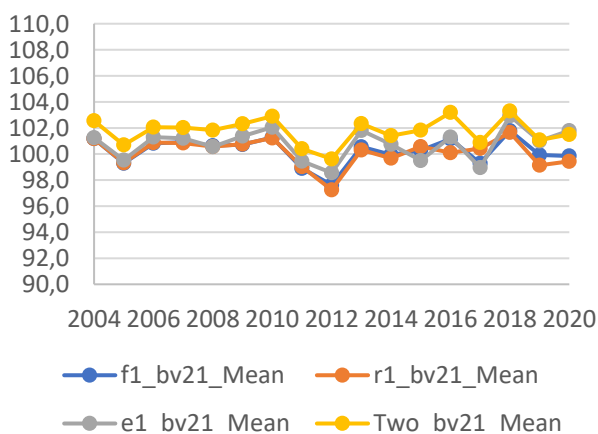
Domestic AI bulls



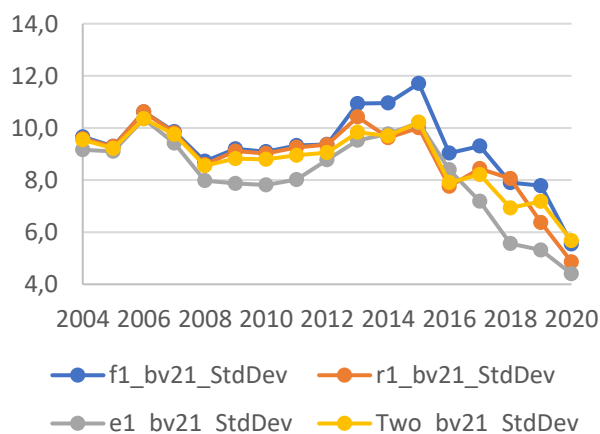
bv21

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	101.2	101.2	101.3	102.6	9.7	9.6	9.2	9.5	1.00	0.99	0.99
2005	200	99.3	99.3	99.5	100.7	9.3	9.3	9.1	9.2	1.00	0.99	0.99
2006	194	100.8	100.9	101.3	102.1	10.6	10.6	10.3	10.3	1.00	0.99	0.99
2007	184	100.9	100.8	101.2	102.0	9.9	9.8	9.4	9.8	1.00	0.99	0.99
2008	236	100.6	100.6	100.6	101.8	8.7	8.6	8.0	8.6	0.99	0.93	0.98
2009	216	100.7	100.8	101.4	102.3	9.2	9.1	7.9	8.8	0.99	0.88	0.98
2010	230	101.3	101.2	102.1	102.9	9.1	9.0	7.8	8.8	0.99	0.88	0.98
2011	215	98.9	99.0	99.4	100.4	9.3	9.3	8.0	9.0	0.99	0.87	0.98
2012	151	97.6	97.2	98.6	99.6	9.4	9.4	8.8	9.1	0.99	0.92	0.99
2013	119	100.6	100.3	101.8	102.3	10.9	10.4	9.5	9.8	0.97	0.90	0.99
2014	73	99.9	99.7	100.7	101.4	11.0	9.6	9.8	9.7	0.94	0.90	0.99
2015	50	100.3	100.6	99.5	101.8	11.7	10.0	10.2	10.2	0.92	0.95	0.99
2016	47	101.2	100.1	101.3	103.2	9.0	7.8	8.4	7.9	0.82	0.90	0.98
2017	79	99.3	100.4	98.9	100.9	9.3	8.4	7.2	8.2	0.90	0.72	0.98
2018	63	101.8	101.7	102.9	103.3	7.9	8.1	5.6	6.9	0.87	0.54	0.97
2019	49	99.9	99.1	101.0	101.1	7.8	6.4	5.3	7.2	0.91	0.59	0.97
2020	43	99.8	99.4	101.8	101.5	5.5	4.9	4.4	5.7	0.72	0.31	0.95

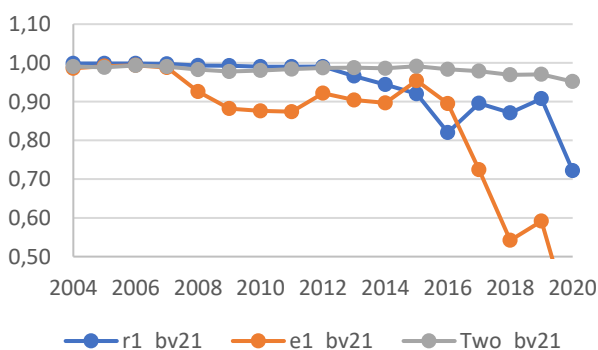
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

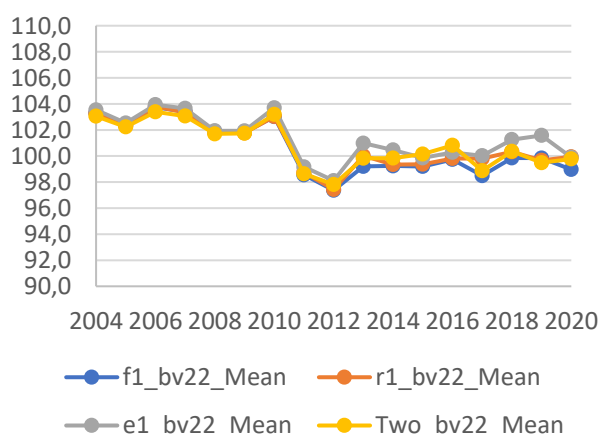


Mælkeafgiftsfonden

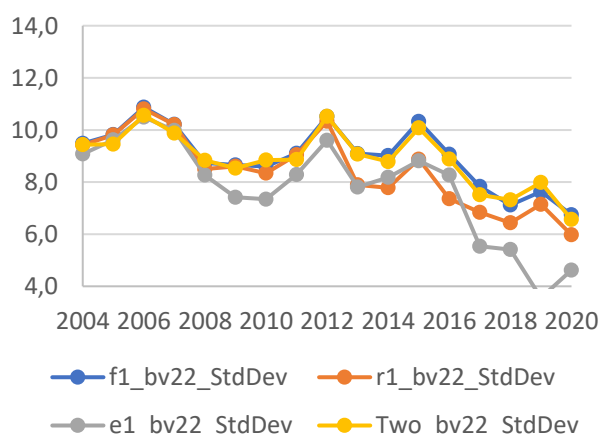
bv22

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	103.3	103.3	103.5	103.1	9.5	9.4	9.1	9.4	1.00	0.98	0.99
2005	200	102.3	102.4	102.5	102.2	9.8	9.8	9.6	9.5	1.00	0.99	0.99
2006	194	103.7	103.8	103.9	103.4	10.9	10.8	10.5	10.6	1.00	0.99	0.99
2007	184	103.4	103.3	103.7	103.1	10.2	10.2	10.0	9.9	1.00	0.98	0.99
2008	236	101.9	101.8	101.9	101.7	8.7	8.5	8.3	8.8	0.99	0.93	0.98
2009	216	101.8	101.8	101.9	101.7	8.7	8.6	7.4	8.5	0.99	0.91	0.98
2010	230	103.0	103.0	103.7	103.2	8.6	8.3	7.3	8.8	0.99	0.89	0.97
2011	215	98.6	98.7	99.2	98.6	9.1	9.0	8.3	8.9	0.99	0.93	0.98
2012	151	97.4	97.4	98.1	97.8	10.5	10.3	9.6	10.5	0.99	0.94	0.99
2013	119	99.2	100.0	101.0	99.8	9.1	7.9	7.8	9.1	0.91	0.87	0.98
2014	73	99.2	99.3	100.5	99.8	9.0	7.8	8.2	8.8	0.91	0.92	0.98
2015	50	99.2	99.4	99.9	100.1	10.3	8.9	8.8	10.1	0.87	0.92	0.99
2016	47	99.7	99.8	100.3	100.8	9.1	7.4	8.3	8.9	0.85	0.87	0.99
2017	79	98.5	99.8	100.0	98.9	7.8	6.8	5.5	7.5	0.87	0.65	0.97
2018	63	99.8	100.3	101.3	100.4	7.1	6.4	5.4	7.3	0.88	0.68	0.96
2019	49	99.8	99.7	101.6	99.5	7.6	7.1	3.6	8.0	0.93	0.41	0.98
2020	43	99.0	99.9	99.9	99.8	6.7	6.0	4.6	6.6	0.93	0.60	0.95

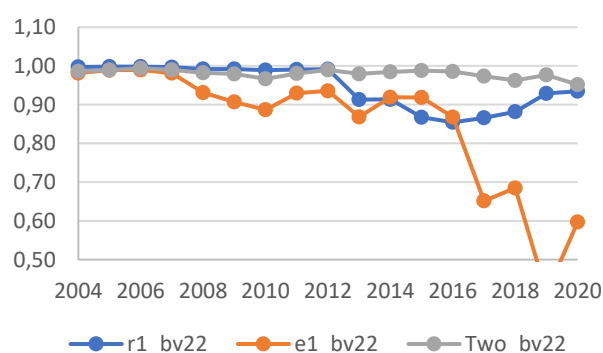
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

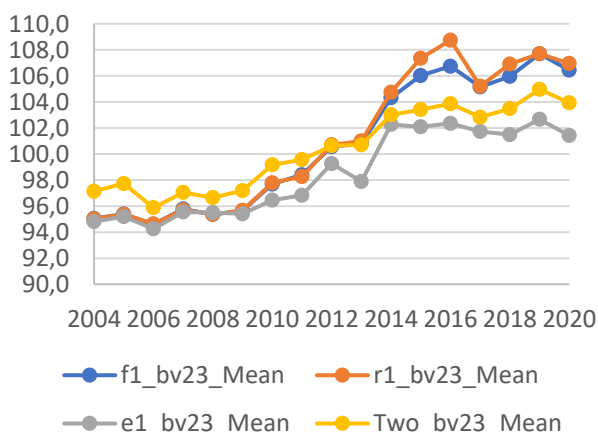


Mælkeafgiftsfonden

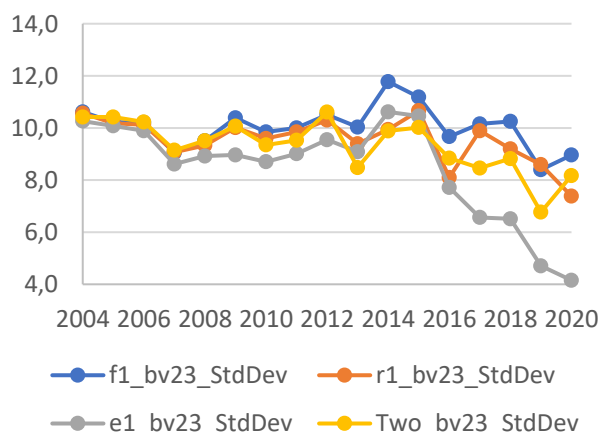
bv23

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	95.0	95.0	94.8	97.1	10.6	10.6	10.3	10.4	1.00	0.98	0.98
2005	200	95.4	95.4	95.2	97.7	10.2	10.2	10.1	10.4	1.00	0.98	0.97
2006	194	94.6	94.6	94.3	95.9	10.2	10.1	9.9	10.2	1.00	0.98	0.98
2007	184	95.8	95.7	95.5	97.0	9.0	9.1	8.6	9.1	0.99	0.97	0.97
2008	236	95.4	95.4	95.5	96.7	9.5	9.3	8.9	9.5	0.99	0.94	0.97
2009	216	95.6	95.7	95.4	97.2	10.4	10.0	9.0	10.1	0.99	0.89	0.97
2010	230	97.7	97.8	96.5	99.2	9.8	9.6	8.7	9.3	0.99	0.88	0.96
2011	215	98.4	98.3	96.8	99.6	10.0	9.8	9.0	9.5	0.99	0.91	0.97
2012	151	100.6	100.7	99.3	100.6	10.5	10.3	9.5	10.6	0.99	0.95	0.98
2013	119	100.8	101.0	97.9	100.7	10.0	9.4	9.1	8.5	0.89	0.91	0.95
2014	73	104.3	104.7	102.3	103.0	11.8	9.9	10.6	9.9	0.91	0.93	0.98
2015	50	106.0	107.3	102.1	103.4	11.2	10.7	10.5	10.0	0.86	0.89	0.98
2016	47	106.7	108.7	102.4	103.9	9.7	8.1	7.7	8.8	0.81	0.89	0.97
2017	79	105.1	105.2	101.7	102.8	10.2	9.9	6.6	8.5	0.92	0.73	0.98
2018	63	106.0	106.9	101.5	103.5	10.2	9.2	6.5	8.8	0.88	0.77	0.98
2019	49	107.7	107.7	102.7	105.0	8.4	8.6	4.7	6.8	0.92	0.60	0.95
2020	43	106.4	106.9	101.4	103.9	9.0	7.4	4.2	8.2	0.92	0.71	0.95

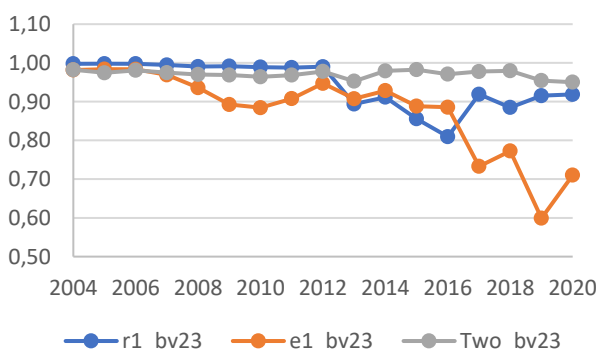
Domestic AI bulls



Domestic AI bulls



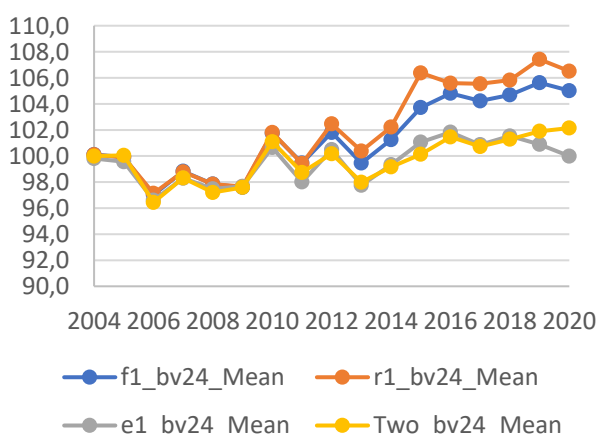
Domestic AI bulls



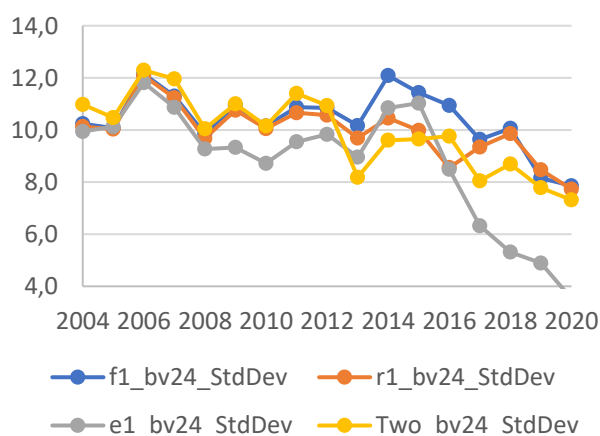
bv24

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	100.1	100.1	99.8	100.0	10.2	10.1	9.9	11.0	1.00	0.98	0.96
2005	200	99.9	99.9	99.6	100.1	10.1	10.0	10.1	10.5	1.00	0.98	0.96
2006	194	97.0	97.1	96.6	96.4	12.1	12.1	11.8	12.3	1.00	0.98	0.97
2007	184	98.8	98.8	98.3	98.3	11.3	11.2	10.9	12.0	1.00	0.98	0.96
2008	236	97.8	97.8	97.5	97.2	9.9	9.7	9.3	10.0	0.99	0.92	0.94
2009	216	97.6	97.7	97.7	97.6	10.9	10.8	9.3	11.0	0.99	0.90	0.94
2010	230	101.7	101.8	100.7	101.1	10.2	10.1	8.7	10.2	0.99	0.86	0.94
2011	215	99.5	99.4	98.0	98.7	10.9	10.7	9.5	11.4	0.99	0.91	0.95
2012	151	101.8	102.5	100.5	100.2	10.8	10.6	9.8	10.9	0.99	0.93	0.96
2013	119	99.5	100.4	97.8	98.0	10.2	9.7	9.0	8.2	0.90	0.83	0.92
2014	73	101.3	102.2	99.3	99.2	12.1	10.5	10.8	9.6	0.91	0.94	0.95
2015	50	103.7	106.4	101.1	100.1	11.4	10.0	11.0	9.6	0.83	0.88	0.97
2016	47	104.8	105.6	101.8	101.5	10.9	8.6	8.5	9.8	0.81	0.85	0.96
2017	79	104.2	105.5	100.9	100.7	9.6	9.3	6.3	8.0	0.93	0.70	0.94
2018	63	104.7	105.8	101.5	101.3	10.1	9.9	5.3	8.7	0.92	0.64	0.96
2019	49	105.6	107.4	100.9	101.9	8.2	8.5	4.9	7.8	0.92	0.42	0.90
2020	43	105.0	106.5	100.0	102.1	7.9	7.7	3.5	7.3	0.88	0.53	0.93

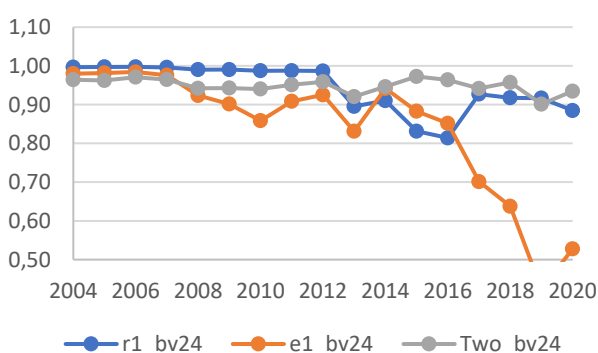
Domestic AI bulls



Domestic AI bulls



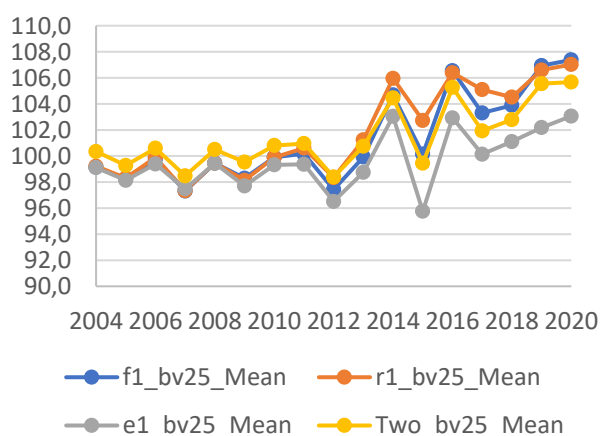
Domestic AI bulls



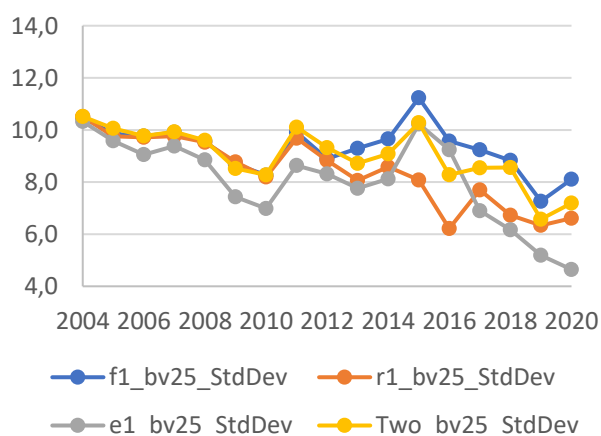
bv25

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	212	99.1	99.2	99.1	100.3	10.5	10.5	10.3	10.5	1.00	0.97	0.98
2005	200	98.2	98.3	98.1	99.3	9.9	9.8	9.6	10.1	1.00	0.97	0.98
2006	194	99.8	99.9	99.4	100.6	9.8	9.7	9.1	9.8	1.00	0.97	0.97
2007	184	97.3	97.3	97.5	98.5	9.9	9.8	9.4	9.9	0.99	0.96	0.98
2008	236	99.4	99.5	99.4	100.5	9.6	9.5	8.9	9.6	0.99	0.92	0.97
2009	216	98.3	98.1	97.7	99.5	8.7	8.8	7.4	8.5	0.98	0.86	0.97
2010	230	99.9	99.9	99.3	100.8	8.3	8.2	7.0	8.3	0.98	0.84	0.97
2011	215	100.2	100.6	99.4	101.0	9.9	9.7	8.6	10.1	0.99	0.89	0.97
2012	151	97.4	98.3	96.5	98.4	8.9	8.8	8.3	9.3	0.98	0.91	0.98
2013	119	99.9	101.2	98.7	100.8	9.3	8.1	7.8	8.7	0.90	0.85	0.98
2014	73	104.7	106.0	103.0	104.5	9.7	8.6	8.1	9.1	0.86	0.91	0.97
2015	50	100.1	102.7	95.8	99.4	11.2	8.1	10.2	10.3	0.86	0.91	0.99
2016	47	106.5	106.4	102.9	105.3	9.6	6.2	9.2	8.3	0.80	0.90	0.97
2017	79	103.3	105.1	100.1	101.9	9.2	7.7	6.9	8.5	0.88	0.79	0.98
2018	63	103.9	104.5	101.1	102.8	8.8	6.7	6.2	8.6	0.87	0.72	0.97
2019	49	106.9	106.6	102.2	105.6	7.3	6.3	5.2	6.6	0.87	0.69	0.95
2020	43	107.4	107.0	103.1	105.7	8.1	6.6	4.6	7.2	0.90	0.55	0.97

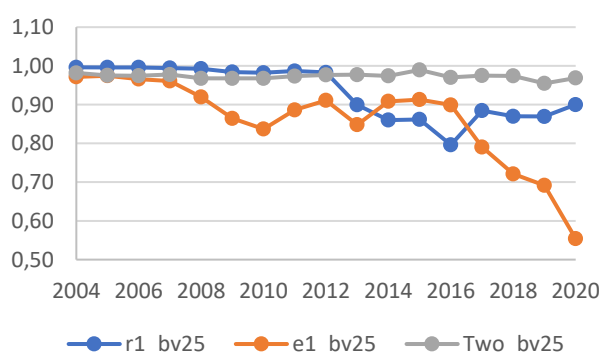
Domestic AI bulls



Domestic AI bulls



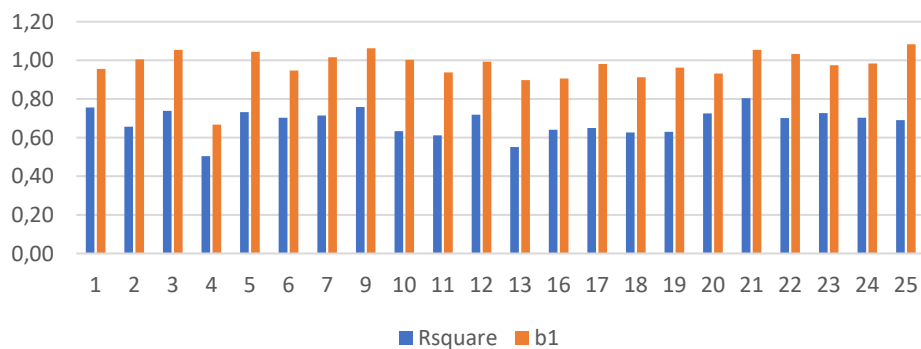
Domestic AI bulls



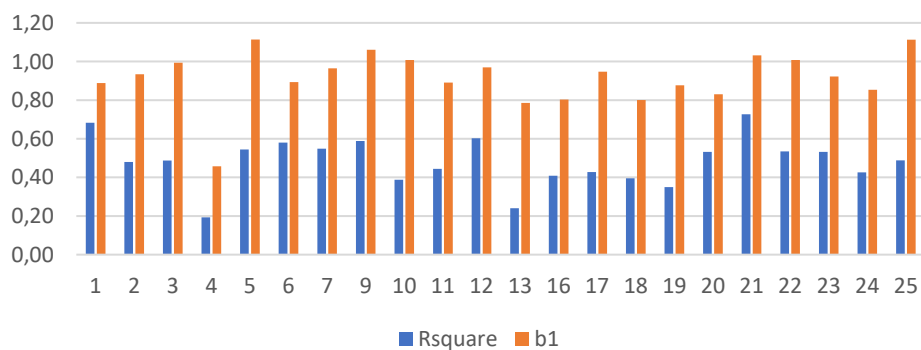
RDC Interbull validation and Legarra Reverter regression

	LR		Interbull		Interbull pedigree	
	Rsquare	b1	Rsquare	b1	Rsquare	b1
1	0.76	0.96	0.68	0.89	0.23	0.83
2	0.66	1.01	0.48	0.93	0.17	0.85
3	0.74	1.05	0.49	0.99	0.24	0.93
4	0.50	0.67	0.19	0.46	0.08	0.50
5	0.73	1.04	0.54	1.11	0.29	1.13
6	0.70	0.95	0.58	0.89	0.21	0.80
7	0.71	1.02	0.55	0.96	0.20	0.85
9	0.76	1.06	0.59	1.06	0.28	0.98
10	0.63	1.00	0.39	1.01	0.18	1.01
11	0.61	0.94	0.44	0.89	0.16	0.90
12	0.72	0.99	0.60	0.97	0.18	0.88
13	0.55	0.90	0.24	0.79	0.15	0.97
16	0.64	0.91	0.41	0.80	0.20	0.96
17	0.65	0.98	0.43	0.95	0.21	1.13
18	0.63	0.91	0.40	0.80	0.19	0.92
19	0.63	0.96	0.35	0.88	0.16	1.15
20	0.72	0.93	0.53	0.83	0.19	0.90
21	0.80	1.05	0.73	1.03	0.40	1.03
22	0.70	1.03	0.53	1.01	0.15	0.71
23	0.73	0.97	0.53	0.92	0.25	1.12
24	0.70	0.98	0.43	0.85	0.17	0.95
25	0.69	1.08	0.49	1.11	0.23	1.04

Legarra Reverter



Interbull



RDC Bulls Noforeign

Domestic AI bulls:

For BV9, BV10, BV11, BV12, BV13, BV16, BV17, BV18, BV19, BV21, BV22 the singlestep procedure is done for the same dataset as earlier shown, besides now the foreign information is excluded.

For these traits, the mean breeding value with foreign and without foreign information are at similar level. When looking at individual bulls the difference between breeding values with noforeign and foreign is less than ± 2 indices and most are less than ± 1 indices.

Therefor the problems seen for BV18 and BV19 is still pronounced when foreign information is excluded, thus the difference between full and reduced are still existing when no foreign information is included in the evaluation.

In the tables below, the mean and the standard deviation for evaluations with foreign (F) and without foreign (NF) information is shown.

Bv9

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	99.1	99.1	99.1	99.1	99.0	99.6	9.4	9.4	9.4	9.4	9.1	9.4
2005	200	98.9	98.8	98.9	98.9	98.7	99.5	8.8	8.8	8.8	8.8	8.7	8.7
2006	194	103.6	103.6	103.6	103.6	103.7	104.1	8.7	8.6	8.7	8.7	8.6	8.5
2007	184	101.2	101.2	101.3	101.2	101.1	101.8	8.9	8.8	8.9	8.9	8.6	8.9
2008	236	100.9	100.9	101.0	101.0	100.8	101.6	9.6	9.6	9.6	9.5	9.3	9.8
2009	216	101.2	101.2	101.2	101.1	100.8	102.0	7.8	7.8	7.8	7.8	7.5	7.8
2010	230	101.6	101.5	101.5	101.4	101.5	102.6	8.3	8.3	8.2	8.2	7.7	8.3
2011	215	101.9	101.9	101.5	101.5	101.8	102.8	7.5	7.5	7.4	7.4	6.9	8.0
2012	151	101.3	101.2	100.9	100.8	101.1	102.2	9.6	9.6	9.5	9.5	8.9	10.0
2013	119	101.2	101.2	100.8	100.8	101.6	102.4	7.3	7.3	6.7	6.7	6.7	7.6
2014	73	100.8	100.8	99.8	99.8	100.5	101.6	8.2	8.2	7.7	7.7	6.7	8.9
2015	50	96.8	96.7	96.6	96.6	97.2	97.9	8.5	8.4	7.2	7.1	7.4	8.6
2016	47	99.2	99.1	98.6	98.5	99.9	100.2	7.4	7.4	5.8	5.8	6.9	7.5
2017	79	98.5	98.5	98.6	98.6	99.6	99.9	8.4	8.4	7.0	6.9	6.4	8.7
2018	63	99.8	99.7	98.5	98.5	100.8	100.9	7.3	7.2	6.4	6.4	5.0	7.2
2019	49	98.7	98.6	98.5	98.3	99.6	100.6	6.6	6.5	6.1	6.1	4.3	7.1
2020	43	97.7	97.4	97.1	96.8	100.0	98.9	6.8	6.7	5.9	5.8	4.0	6.1

bv10

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	97.6	97.7	97.7	97.7	97.6	97.6	10.0	10.0	10.0	10.0	9.8	10.1
2005	200	97.0	97.0	97.0	97.0	96.9	97.1	8.8	8.8	8.8	8.8	8.7	9.1
2006	194	96.8	96.8	96.8	96.8	96.6	96.6	9.3	9.2	9.3	9.2	9.1	9.4
2007	184	96.5	96.6	96.4	96.5	96.4	96.5	9.4	9.4	9.3	9.3	9.0	9.6
2008	236	97.2	97.2	97.2	97.2	97.5	97.0	9.2	9.2	9.2	9.2	8.4	9.9
2009	216	96.9	97.0	97.0	97.0	96.4	96.3	8.2	8.1	8.1	8.1	7.4	8.4
2010	230	97.6	97.7	97.8	97.9	97.6	96.5	7.6	7.6	7.5	7.4	6.5	8.0
2011	215	97.5	97.6	98.0	98.0	97.5	96.3	8.9	8.8	9.0	9.0	8.4	9.2

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2012	151	101.7	101.9	102.2	102.3	101.0	100.8	9.2	9.2	9.0	9.0	8.5	9.6
2013	119	100.7	100.8	102.3	102.3	98.6	98.9	7.8	7.7	7.2	7.2	6.9	7.7
2014	73	103.2	103.2	104.2	104.2	101.5	101.2	8.0	8.0	6.8	6.7	7.5	8.0
2015	50	104.9	104.9	106.1	106.1	102.7	102.7	8.1	8.1	5.9	5.9	7.1	7.7
2016	47	105.6	105.6	106.6	106.5	102.6	103.0	7.8	7.8	5.9	5.9	7.9	7.9
2017	79	105.7	105.8	105.6	105.6	102.7	103.5	7.9	7.9	6.4	6.4	5.7	7.7
2018	63	106.4	106.4	107.0	106.9	103.0	103.5	6.3	6.2	5.8	5.8	5.0	6.3
2019	49	108.7	108.7	108.4	108.4	103.7	105.4	6.4	6.4	5.2	5.2	4.8	7.2
2020	43	109.8	109.8	109.2	109.2	104.7	106.8	6.9	6.9	6.1	6.1	3.4	6.8

bv11

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	93.9	93.9	94.0	94.0	94.0	97.2	9.6	9.6	9.6	9.6	9.5	9.4
2005	200	95.3	95.3	95.3	95.3	95.1	98.5	9.8	9.8	9.8	9.8	9.5	9.9
2006	194	96.4	96.4	96.5	96.5	96.6	99.7	9.4	9.4	9.4	9.4	9.4	9.4
2007	184	95.7	95.7	95.8	95.8	95.6	99.0	9.5	9.5	9.4	9.4	9.1	9.6
2008	236	95.8	95.8	95.8	95.8	96.0	99.0	9.1	9.1	9.2	9.2	8.4	8.5
2009	216	95.7	95.7	95.8	95.8	96.0	99.1	9.1	9.1	9.1	9.1	8.0	8.4
2010	230	97.0	97.0	97.3	97.3	97.0	100.3	9.5	9.5	9.4	9.4	8.3	8.5
2011	215	98.8	98.8	98.7	98.7	98.1	101.4	9.6	9.6	9.7	9.7	8.3	8.7
2012	151	100.2	100.2	99.9	99.9	98.9	102.7	9.0	9.0	8.8	8.8	8.2	8.7
2013	119	101.9	101.9	101.4	101.4	100.0	103.2	7.4	7.4	6.6	6.6	6.3	5.3
2014	73	103.3	103.3	102.1	102.1	101.1	103.9	9.0	9.0	7.3	7.3	8.1	6.0
2015	50	103.2	103.2	103.5	103.5	101.5	103.3	10.5	10.5	9.3	9.3	8.3	7.1
2016	47	104.6	104.6	105.9	105.9	102.0	103.7	10.3	10.3	8.9	8.9	7.8	6.9
2017	79	106.1	106.1	106.3	106.3	101.9	105.4	9.4	9.4	7.9	7.9	6.7	6.5
2018	63	105.9	105.9	105.9	106.0	101.4	105.3	9.0	9.0	7.9	7.9	6.1	6.5
2019	49	108.0	108.0	107.9	107.9	101.7	106.9	6.8	6.8	6.4	6.4	4.5	5.1
2020	43	104.9	105.0	106.2	106.2	101.4	104.3	7.5	7.5	5.9	5.9	3.9	5.6

bv12

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	94.3	94.3	94.3	94.3	94.5	97.6	9.6	9.6	9.6	9.6	9.3	9.5
2005	200	96.2	96.2	96.2	96.2	96.2	99.3	9.8	9.8	9.7	9.7	9.4	9.8
2006	194	95.0	95.0	95.1	95.1	95.4	98.3	9.9	9.9	9.8	9.8	9.5	9.8
2007	184	95.1	95.1	95.2	95.2	95.2	98.6	10.1	10.1	10.0	10.0	9.6	10.2
2008	236	95.0	95.0	95.0	95.0	95.4	98.3	10.7	10.7	10.6	10.6	9.9	10.1
2009	216	94.9	94.9	95.0	95.0	95.5	98.3	10.1	10.1	10.0	10.0	8.6	9.2
2010	230	95.8	95.8	95.8	95.8	95.5	99.4	9.9	9.9	9.8	9.8	8.6	9.1
2011	215	96.2	96.3	96.1	96.1	95.9	99.4	10.1	10.1	10.1	10.1	8.6	9.1
2012	151	99.2	99.2	98.8	98.8	98.9	102.1	11.0	11.0	10.9	10.9	10.0	10.6
2013	119	101.9	101.9	101.0	101.0	100.1	103.4	8.8	8.8	7.9	7.9	7.7	6.9
2014	73	102.6	102.6	101.8	101.8	100.6	104.0	10.5	10.5	9.2	9.2	9.5	7.6
2015	50	102.9	102.9	103.0	103.0	102.5	103.8	10.9	10.9	9.2	9.2	9.0	7.9
2016	47	104.8	104.8	104.9	104.9	103.0	104.9	11.7	11.7	9.3	9.3	8.9	8.4
2017	79	105.6	105.6	105.8	105.8	102.4	105.7	9.0	9.0	7.9	7.9	6.7	6.6
2018	63	106.0	106.0	105.9	105.9	102.1	106.0	9.1	9.1	8.3	8.3	5.7	7.0
2019	49	107.4	107.4	108.1	108.1	101.7	107.1	7.3	7.4	7.6	7.6	4.9	5.6
2020	43	106.4	106.4	106.9	106.9	101.9	106.3	9.4	9.4	7.2	7.2	5.5	7.1

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bv13

		mean						STD					
BYR	N	full	Reduc			ebv	Two	full	Reduc			ebv	Two
		NF	F	NF	F			NF	F	NF	F		
2004	212	102.6	102.5	102.5	102.4	102.4	101.6	8.3	8.3	8.3	8.4	8.1	8.3
2005	200	101.4	101.3	101.4	101.4	101.2	100.6	7.3	7.3	7.3	7.3	7.2	7.4
2006	194	99.9	100.0	99.8	99.8	99.8	99.3	6.9	6.9	6.8	6.8	6.7	6.9
2007	184	101.0	101.1	101.1	101.1	101.0	100.2	8.0	8.0	7.9	7.9	7.6	8.2
2008	236	101.6	101.6	101.4	101.4	101.6	100.8	7.5	7.5	7.5	7.5	6.9	7.9
2009	216	102.0	102.0	102.0	102.0	101.6	101.1	6.3	6.3	6.2	6.2	6.0	6.5
2010	230	100.8	100.9	100.9	101.0	100.7	99.6	7.0	7.0	6.9	6.9	6.3	7.0
2011	215	101.2	101.3	101.3	101.4	100.7	100.4	7.3	7.3	7.2	7.2	6.9	7.4
2012	151	101.5	101.6	101.5	101.6	100.6	100.4	7.7	7.8	7.5	7.5	6.9	7.4
2013	119	100.2	100.3	100.7	100.8	99.7	99.0	7.2	7.2	5.7	5.7	6.3	6.6
2014	73	99.7	99.8	99.8	100.0	99.4	99.0	6.4	6.3	5.6	5.6	6.0	5.8
2015	50	103.2	103.3	103.0	103.1	102.0	101.7	8.0	8.0	6.0	6.0	7.2	7.4
2016	47	101.1	101.2	101.7	101.8	99.9	99.8	8.4	8.4	6.0	6.0	7.6	7.8
2017	79	102.7	102.7	102.6	102.6	101.8	100.8	6.5	6.5	6.0	6.0	5.1	6.2
2018	63	103.3	103.4	103.5	103.6	101.1	101.0	6.6	6.6	5.9	5.8	4.3	6.1
2019	49	102.4	102.4	102.3	102.3	100.9	100.8	4.7	4.7	4.1	4.1	3.5	4.8
2020	43	103.0	103.1	103.1	103.3	102.5	101.3	4.7	4.8	4.3	4.2	3.1	5.4

bv16

		mean						STD					
BYR	N	full	Reduc			ebv	Two	full	Reduc			ebv	Two
		NF	F	NF	F			NF	F	NF	F		
2004	212	90.7	90.7	90.8	90.8	90.8	94.0	10.5	10.5	10.5	10.5	10.2	10.2
2005	200	90.4	90.4	90.5	90.5	90.2	93.7	10.7	10.7	10.7	10.7	10.7	10.8
2006	194	92.7	92.7	92.7	92.7	92.5	95.5	10.2	10.1	10.2	10.1	10.2	10.3
2007	184	93.1	93.1	93.2	93.2	93.1	96.0	9.6	9.6	9.7	9.7	9.3	9.8
2008	236	94.3	94.3	94.4	94.5	94.0	97.4	9.1	9.1	8.9	8.9	8.5	9.1
2009	216	95.0	94.9	95.0	95.0	94.7	98.5	9.2	9.2	9.1	9.1	7.9	8.5
2010	230	99.0	98.9	98.9	98.9	98.9	101.8	9.7	9.7	9.6	9.6	8.5	8.7
2011	215	97.9	98.0	97.9	97.9	96.9	100.4	9.0	9.0	8.9	8.9	7.7	8.4
2012	151	101.6	101.7	101.4	101.5	99.1	103.5	8.8	8.7	8.4	8.4	8.3	8.5
2013	119	102.1	102.2	102.5	102.5	99.0	102.8	8.8	8.8	8.3	8.2	7.8	7.2
2014	73	104.4	104.4	105.3	105.3	100.4	103.5	9.7	9.7	9.3	9.2	8.9	7.1
2015	50	108.5	108.6	111.3	111.4	102.2	105.9	9.6	9.6	7.6	7.5	9.4	7.5
2016	47	108.0	108.0	108.9	108.9	102.5	105.0	8.6	8.5	8.3	8.2	7.6	6.4
2017	79	109.5	109.5	110.1	110.1	101.6	106.3	9.9	9.9	9.6	9.6	7.1	7.2
2018	63	108.7	108.7	110.7	110.7	101.3	105.7	8.4	8.4	7.7	7.8	6.8	6.6
2019	49	115.2	115.2	115.8	115.8	103.5	110.2	6.9	6.8	7.3	7.2	3.3	5.4
2020	43	114.7	114.8	116.1	116.1	104.5	110.0	8.4	8.5	7.9	8.0	3.7	6.5

bv17

		mean						STD					
BYR	N	full	Reduc			ebv	Two	full	Reduc			ebv	Two
		NF	F	NF	F			NF	F	NF	F		
2004	212	92.2	92.3	92.3	92.3	92.0	96.0	9.8	9.8	9.7	9.7	9.7	9.5
2005	200	93.3	93.3	93.3	93.3	93.0	96.4	11.0	10.9	11.0	11.0	10.9	10.6
2006	194	94.4	94.5	94.5	94.5	94.2	97.1	10.7	10.7	10.7	10.7	10.4	10.2
2007	184	94.0	94.2	94.0	94.1	93.8	97.6	8.4	8.4	8.5	8.5	8.4	8.2
2008	236	97.1	97.2	97.2	97.2	97.1	99.8	9.3	9.3	9.2	9.2	8.7	8.9
2009	216	96.4	96.4	96.6	96.6	96.5	99.3	9.1	9.1	9.0	9.0	7.9	8.5

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2010	230	100.4	100.5	100.6	100.6	99.5	102.7	8.5	8.5	8.3	8.3	8.0	8.0
2011	215	99.1	99.2	99.4	99.4	97.5	101.0	7.8	7.8	7.8	7.7	7.0	7.6
2012	151	100.1	100.2	100.2	100.3	97.9	101.4	7.7	7.7	7.6	7.6	7.5	7.7
2013	119	100.3	100.4	101.2	101.3	97.5	101.8	8.3	8.3	7.6	7.6	7.2	6.7
2014	73	102.5	102.7	103.8	103.9	99.4	102.8	8.5	8.5	7.6	7.5	7.9	6.6
2015	50	105.2	105.3	108.2	108.2	100.1	103.2	8.9	8.9	7.3	7.4	8.5	7.5
2016	47	107.3	107.4	109.1	109.2	101.2	104.9	8.6	8.5	7.5	7.5	7.9	6.4
2017	79	108.9	109.1	110.6	110.7	101.7	106.1	9.0	9.0	8.1	8.1	6.5	6.8
2018	63	110.7	110.9	111.7	111.8	102.9	107.8	8.1	8.1	7.2	7.2	5.9	7.0
2019	49	113.4	113.4	114.8	114.7	103.0	109.0	6.9	6.9	6.3	6.2	4.3	5.3
2020	43	113.7	113.9	114.6	114.8	103.9	109.5	6.4	6.5	5.8	5.9	3.1	5.3

bv18

BYR	N	mean						STD					
		full	Reduc		ebv		Two	full	Reduc		ebv		Two
		NF	F	NF	F			NF	F	NF	F		
2004	212	95.8	95.8	96.0	96.0	95.6	96.5	9.7	9.7	9.7	9.7	9.5	9.3
2005	200	96.2	96.2	96.2	96.2	95.9	96.5	9.8	9.8	9.8	9.8	9.7	9.2
2006	194	97.7	97.7	97.9	97.9	97.5	97.6	10.2	10.2	10.1	10.1	10.0	9.6
2007	184	97.7	97.7	97.8	97.8	97.4	98.1	9.5	9.5	9.4	9.4	9.3	9.1
2008	236	98.3	98.3	98.4	98.4	98.4	98.5	10.2	10.2	10.0	10.0	9.8	9.8
2009	216	97.9	97.9	98.1	98.1	97.6	98.2	10.3	10.3	10.1	10.1	9.3	9.5
2010	230	101.1	101.1	101.5	101.5	100.0	100.9	10.9	10.9	10.8	10.8	10.1	9.7
2011	215	99.3	99.3	99.7	99.7	97.9	98.6	8.8	8.8	8.8	8.8	8.3	8.0
2012	151	102.1	102.1	102.5	102.5	100.2	101.3	8.6	8.6	8.8	8.8	8.2	8.1
2013	119	101.9	101.9	103.2	103.2	99.5	100.6	9.1	9.1	8.7	8.7	8.0	7.6
2014	73	102.2	102.2	104.1	104.1	99.6	100.6	8.2	8.2	8.3	8.3	7.6	6.7
2015	50	104.6	104.6	108.6	108.6	100.7	101.4	9.1	9.1	7.6	7.6	7.9	8.0
2016	47	106.6	106.6	110.5	110.5	100.9	102.9	9.0	9.0	7.9	7.9	7.6	7.5
2017	79	109.2	109.2	111.8	111.8	103.1	104.5	7.9	7.9	7.9	7.9	6.4	6.4
2018	63	108.9	109.0	112.4	112.4	102.5	104.5	7.3	7.3	6.7	6.7	5.6	6.3
2019	49	112.0	112.0	114.8	114.8	103.5	106.0	7.3	7.3	6.9	6.9	4.8	6.2
2020	43	113.3	113.3	116.1	116.1	103.1	107.4	7.1	7.1	6.9	6.9	3.9	5.9

bv19

BYR	N	mean						STD					
		full	Reduc		ebv		Two	full	Reduc		ebv		Two
		NF	F	NF	F			NF	F	NF	F		
2004	212	103.5	103.5	103.5	103.5	103.3	102.1	10.4	10.3	10.3	10.2	10.1	10.3
2005	200	101.6	101.6	101.6	101.6	101.3	100.0	9.9	9.9	9.9	9.8	9.7	10.1
2006	194	98.7	98.7	98.7	98.7	98.3	97.1	10.9	10.9	10.9	10.9	10.4	10.6
2007	184	101.5	101.5	101.4	101.4	101.1	100.0	11.1	11.1	11.0	11.0	10.6	11.1
2008	236	99.9	99.9	100.1	100.1	99.8	98.0	10.1	10.1	10.1	10.1	9.4	9.9
2009	216	101.7	101.7	101.8	101.9	101.6	100.0	10.1	10.1	9.8	9.8	8.9	9.5
2010	230	102.7	102.8	103.0	103.0	102.3	100.9	10.1	10.1	10.2	10.2	8.6	9.5
2011	215	101.8	101.8	102.3	102.4	100.3	99.4	10.3	10.2	10.2	10.2	8.8	9.9
2012	151	102.5	102.5	103.5	103.5	100.8	100.1	10.5	10.5	10.4	10.4	9.5	9.8
2013	119	100.0	100.0	102.2	102.1	98.4	98.0	9.4	9.4	8.9	8.8	7.8	8.2
2014	73	102.5	102.5	105.2	105.3	100.4	99.4	11.2	11.2	8.9	9.0	9.8	8.9
2015	50	101.5	101.5	105.6	105.4	99.6	97.4	10.7	10.6	8.6	8.5	10.2	9.5
2016	47	106.6	106.5	109.3	109.2	102.8	101.7	10.9	10.9	8.0	8.0	9.7	10.1
2017	79	103.9	103.8	107.6	107.5	100.1	99.6	8.0	8.0	7.7	7.6	5.9	6.5
2018	63	105.0	105.0	108.4	108.5	101.5	100.7	8.9	8.9	8.5	8.5	5.9	7.9

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2019	49	104.5	104.4	109.7	109.6	99.4	100.3	6.7	6.7	6.6	6.6	4.3	6.2
2020	43	105.5	105.5	108.8	108.8	101.2	101.0	7.4	7.5	6.2	6.3	3.1	6.6

bv21

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	101.2	101.2	101.2	101.2	101.3	102.6	9.7	9.7	9.6	9.6	9.2	9.5
2005	200	99.3	99.3	99.4	99.3	99.5	100.7	9.3	9.3	9.3	9.3	9.1	9.2
2006	194	100.9	100.8	100.9	100.9	101.3	102.1	10.6	10.6	10.6	10.6	10.3	10.3
2007	184	100.9	100.9	100.9	100.8	101.2	102.0	9.9	9.9	9.8	9.8	9.4	9.8
2008	236	100.7	100.6	100.6	100.6	100.6	101.8	8.7	8.7	8.6	8.6	8.0	8.6
2009	216	100.8	100.7	100.8	100.8	101.4	102.3	9.2	9.2	9.1	9.1	7.9	8.8
2010	230	101.3	101.3	101.3	101.2	102.1	102.9	9.1	9.1	9.0	9.0	7.8	8.8
2011	215	99.0	98.9	99.1	99.0	99.4	100.4	9.3	9.3	9.2	9.3	8.0	9.0
2012	151	97.7	97.6	97.3	97.2	98.6	99.6	9.4	9.4	9.4	9.4	8.8	9.1
2013	119	100.6	100.6	100.4	100.3	101.8	102.3	11.0	10.9	10.5	10.4	9.5	9.8
2014	73	100.0	99.9	99.7	99.7	100.7	101.4	10.9	11.0	9.6	9.6	9.8	9.7
2015	50	100.4	100.3	100.6	100.6	99.5	101.8	11.7	11.7	10.0	10.0	10.2	10.2
2016	47	101.3	101.2	100.2	100.1	101.3	103.2	9.1	9.0	7.8	7.8	8.4	7.9
2017	79	99.5	99.3	100.6	100.4	98.9	100.9	9.3	9.3	8.4	8.4	7.2	8.2
2018	63	102.0	101.8	101.8	101.7	102.9	103.3	7.9	7.9	8.0	8.1	5.6	6.9
2019	49	100.0	99.9	99.2	99.1	101.0	101.1	7.8	7.8	6.5	6.4	5.3	7.2
2020	43	100.0	99.8	99.6	99.4	101.8	101.5	5.6	5.5	4.8	4.9	4.4	5.7

bv22

		mean						STD					
BYR	N	full NF	Reduc F	Reduc NF	F	ebv	Two	full NF	Reduc F	Reduc NF	F	ebv	Two
2004	212	103.3	103.3	103.3	103.3	103.5	103.1	9.5	9.5	9.4	9.4	9.1	9.4
2005	200	102.3	102.3	102.4	102.4	102.5	102.2	9.8	9.8	9.8	9.8	9.6	9.5
2006	194	103.7	103.7	103.8	103.8	103.9	103.4	10.9	10.9	10.8	10.8	10.5	10.6
2007	184	103.4	103.4	103.3	103.3	103.7	103.1	10.2	10.2	10.2	10.2	10.0	9.9
2008	236	101.9	101.9	101.8	101.8	101.9	101.7	8.7	8.7	8.5	8.5	8.3	8.8
2009	216	101.8	101.8	101.8	101.8	101.9	101.7	8.7	8.7	8.6	8.6	7.4	8.5
2010	230	103.0	103.0	103.0	103.0	103.7	103.2	8.6	8.6	8.3	8.3	7.3	8.8
2011	215	98.6	98.6	98.7	98.7	99.2	98.6	9.1	9.1	9.0	9.0	8.3	8.9
2012	151	97.4	97.4	97.4	97.4	98.1	97.8	10.5	10.5	10.3	10.3	9.6	10.5
2013	119	99.2	99.2	100.0	100.0	101.0	99.8	9.1	9.1	7.9	7.9	7.8	9.1
2014	73	99.2	99.2	99.3	99.3	100.5	99.8	9.0	9.0	7.8	7.8	8.2	8.8
2015	50	99.2	99.2	99.4	99.4	99.9	100.1	10.3	10.3	8.9	8.9	8.8	10.1
2016	47	99.7	99.7	99.8	99.8	100.3	100.8	9.1	9.1	7.4	7.4	8.3	8.9
2017	79	98.5	98.5	99.8	99.8	100.0	98.9	7.8	7.8	6.8	6.8	5.5	7.5
2018	63	99.8	99.8	100.3	100.3	101.3	100.4	7.1	7.1	6.4	6.4	5.4	7.3
2019	49	99.8	99.8	99.7	99.7	101.6	99.5	7.6	7.6	7.1	7.1	3.6	8.0
2020	43	99.0	99.0	99.9	99.9	99.9	99.8	6.7	6.7	6.0	6.0	4.6	6.6

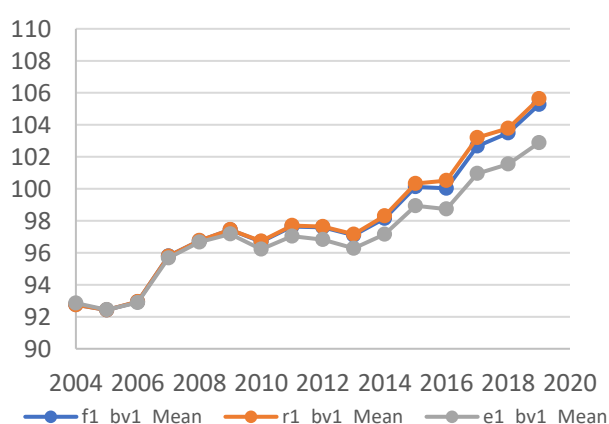
**Jersey
Cows****Trend (mean and SD)**

Mælkeafgiftsfonden

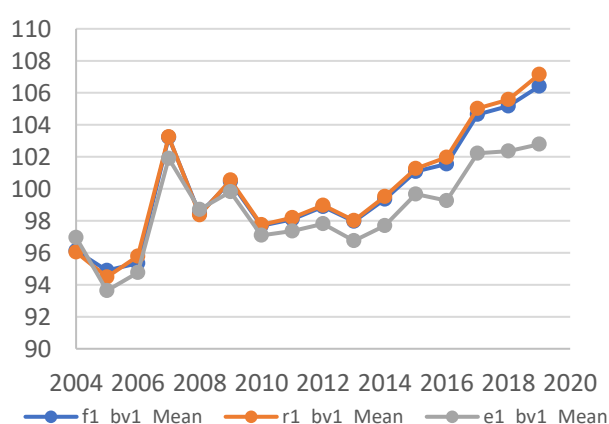
bv1

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6531	92.8	92.7	92.9	8.8	8.8	8.8	17	96.1	96.0	97.0	11.9	11.6	10.9
2005	6806	92.4	92.4	92.4	9.0	9.0	9.0	18	94.9	94.5	93.6	7.6	7.7	7.2
2006	7437	92.9	92.9	92.9	8.9	8.8	8.9	32	95.3	95.8	94.8	8.6	8.1	7.7
2007	7734	95.8	95.8	95.7	9.4	9.4	9.4	54	103.2	103.3	101.9	11.5	11.6	9.8
2008	8124	96.7	96.8	96.7	9.0	9.0	9.0	66	98.4	98.4	98.7	9.8	9.9	7.9
2009	8737	97.4	97.4	97.2	8.6	8.5	8.5	100	100.5	100.5	99.8	10.6	10.5	9.0
2010	7277	96.7	96.7	96.2	8.3	8.3	8.3	1169	97.7	97.8	97.1	10.3	10.3	8.5
2011	6792	97.6	97.7	97.0	8.1	8.1	8.1	1921	98.1	98.2	97.4	9.9	10.0	8.1
2012	6662	97.6	97.6	96.8	8.3	8.3	8.3	1930	98.9	99.0	97.8	10.6	10.6	8.6
2013	5860	97.1	97.2	96.3	8.1	8.0	8.0	1332	98.0	98.0	96.8	10.1	10.1	8.1
2014	5739	98.1	98.3	97.2	8.0	8.0	7.9	1584	99.3	99.5	97.7	9.6	9.5	7.7
2015	5352	100.1	100.3	98.9	8.1	7.7	7.9	1610	101.1	101.3	99.7	9.9	9.7	8.1
2016	4706	100.0	100.5	98.7	7.7	6.5	7.6	1716	101.5	102.0	99.3	9.4	8.9	7.6
2017	4066	102.7	103.2	101.0	7.7	6.4	7.6	2061	104.6	105.0	102.2	9.3	9.0	7.3
2018	3437	103.5	103.8	101.5	7.7	6.5	7.6	2081	105.2	105.6	102.4	9.8	9.6	7.8
2019	283	105.3	105.6	102.9	7.4	6.3	7.2	226	106.4	107.2	102.8	8.7	8.0	6.8

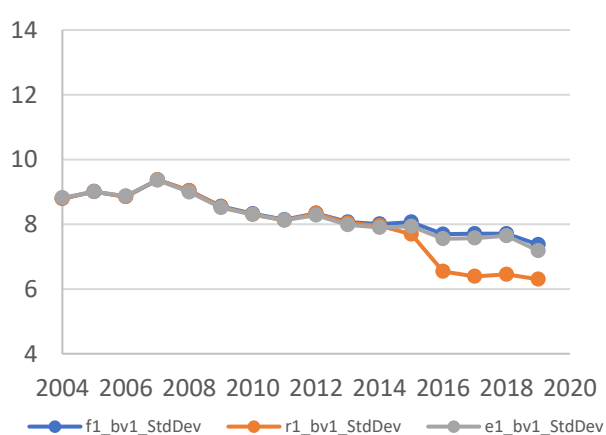
Non genotyped females with records



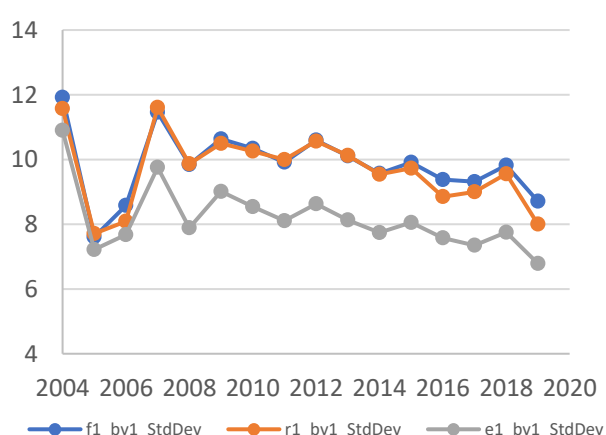
Genotyped females with records



Non genotyped females with records



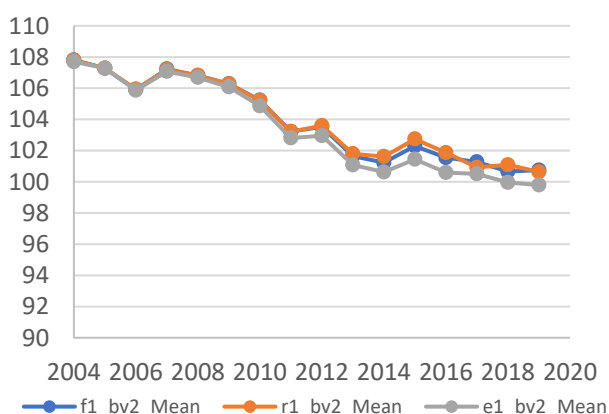
Genotyped females with records



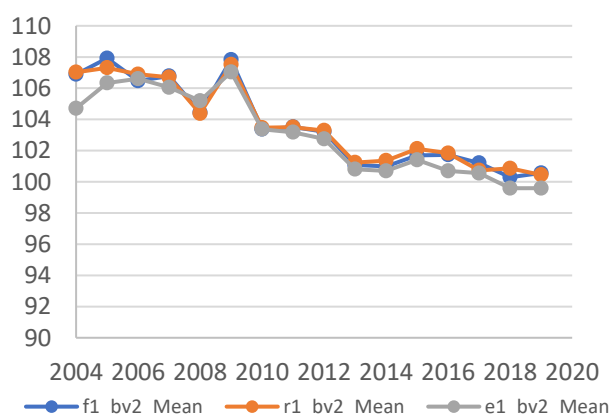
bv2

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	107.8	107.8	107.7	8.2	8.2	8.2	17	106.9	107.0	104.7	9.3	9.3	6.3
2005	6905	107.3	107.3	107.3	8.5	8.5	8.5	18	107.9	107.3	106.3	11.0	11.0	8.3
2006	7496	105.9	105.9	105.9	8.1	8.1	8.1	32	106.5	106.9	106.6	10.1	9.6	6.9
2007	7781	107.2	107.2	107.1	8.3	8.3	8.3	54	106.8	106.7	106.1	9.9	9.4	8.9
2008	8183	106.8	106.8	106.7	8.0	7.9	7.9	66	104.4	104.4	105.2	9.7	9.2	7.7
2009	8830	106.3	106.3	106.1	8.9	8.9	8.9	100	107.8	107.5	107.0	12.1	11.7	9.6
2010	7346	105.2	105.2	104.9	9.5	9.5	9.5	1171	103.4	103.5	103.4	11.8	11.5	9.8
2011	6838	103.2	103.2	102.8	9.7	9.7	9.7	1923	103.5	103.5	103.2	11.7	11.5	9.9
2012	6709	103.5	103.6	103.0	9.0	9.0	8.9	1936	103.2	103.3	102.8	11.0	10.7	8.9
2013	5889	101.6	101.8	101.1	8.5	8.5	8.5	1335	101.1	101.2	100.8	11.0	10.6	8.8
2014	5777	101.2	101.6	100.6	9.4	9.4	9.2	1585	101.0	101.4	100.7	11.4	11.0	9.0
2015	5368	102.3	102.7	101.4	9.3	8.6	9.2	1611	101.7	102.1	101.4	11.3	10.7	9.3
2016	4734	101.5	101.9	100.6	8.6	6.9	8.4	1725	101.7	101.8	100.7	10.7	9.5	8.3
2017	4076	101.3	100.9	100.5	8.7	6.3	8.6	2064	101.2	100.7	100.6	10.5	8.9	8.5
2018	3445	100.7	101.1	100.0	7.9	5.8	7.9	2087	100.3	100.9	99.6	10.5	9.1	7.9
2019	283	100.7	100.6	99.8	8.2	6.0	7.9	226	100.6	100.4	99.6	10.0	8.0	7.8

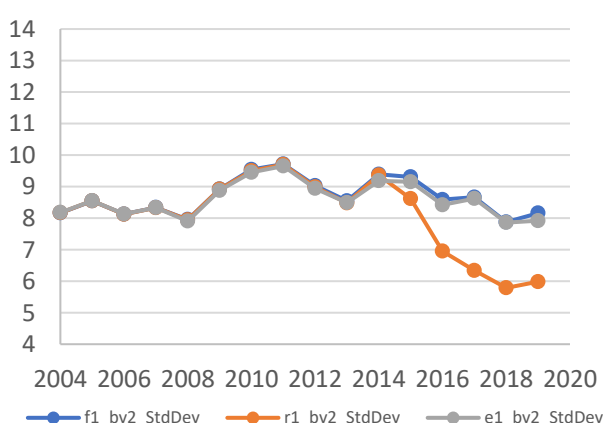
Non genotyped females with records



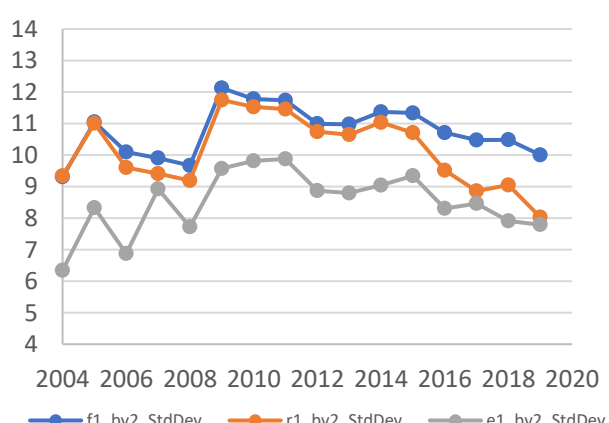
Genotyped females with records



Non genotyped females with records



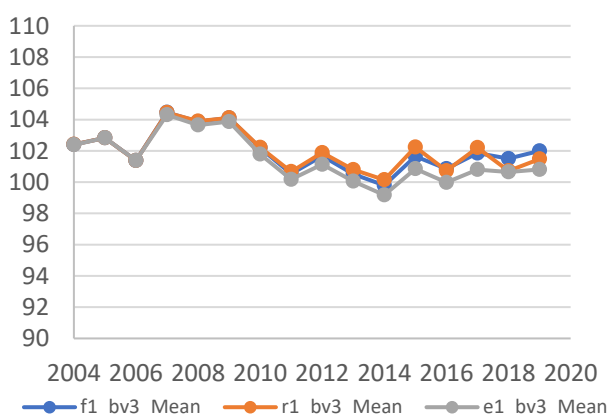
Genotyped females with records



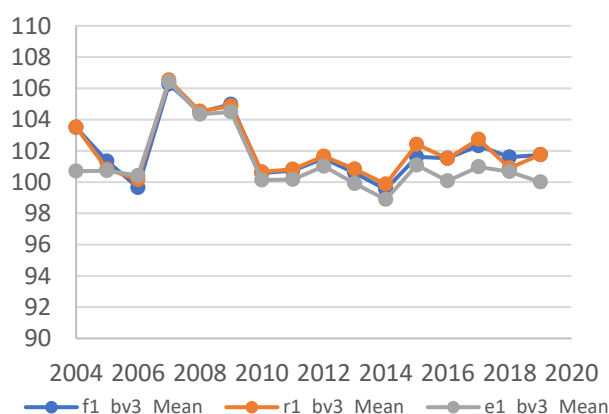
bv3

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	102.4	102.4	102.4	8.2	8.2	8.2	17	103.5	103.5	100.7	12.8	12.6	8.3
2005	6905	102.8	102.8	102.8	9.2	9.2	9.3	18	101.3	100.8	100.7	14.2	13.4	10.6
2006	7496	101.4	101.4	101.4	9.0	9.0	9.0	32	99.6	100.2	100.4	12.0	11.6	8.8
2007	7781	104.5	104.4	104.3	9.3	9.3	9.2	54	106.3	106.5	106.4	9.7	10.2	8.7
2008	8183	103.9	103.9	103.6	9.0	9.0	8.9	66	104.5	104.5	104.3	10.1	9.7	8.0
2009	8830	104.1	104.1	103.9	8.9	8.9	8.7	100	105.0	104.9	104.5	11.1	10.6	8.6
2010	7346	102.2	102.2	101.8	8.7	8.6	8.5	1171	100.6	100.7	100.1	11.4	11.1	9.3
2011	6838	100.5	100.7	100.2	9.2	9.1	9.0	1923	100.7	100.8	100.2	11.8	11.5	9.4
2012	6709	101.7	101.9	101.1	9.1	9.1	9.0	1936	101.5	101.7	101.0	11.6	11.4	9.1
2013	5889	100.5	100.8	100.1	9.1	9.0	8.9	1335	100.6	100.8	99.9	11.7	11.2	9.0
2014	5777	99.8	100.1	99.2	9.4	9.2	9.1	1585	99.5	99.9	98.9	11.6	11.2	9.0
2015	5368	101.6	102.2	100.9	9.4	8.9	9.2	1611	101.6	102.4	101.1	11.7	11.1	9.6
2016	4734	100.9	100.7	100.0	9.7	7.8	9.5	1725	101.5	101.5	100.1	12.0	10.2	9.9
2017	4076	101.9	102.2	100.8	8.8	6.4	8.7	2064	102.3	102.7	101.0	10.9	9.3	8.5
2018	3445	101.5	100.7	100.7	8.2	6.1	8.1	2087	101.6	100.9	100.7	10.4	8.9	8.0
2019	283	102.0	101.5	100.8	9.1	6.8	8.7	226	101.7	101.8	100.0	10.7	8.9	8.4

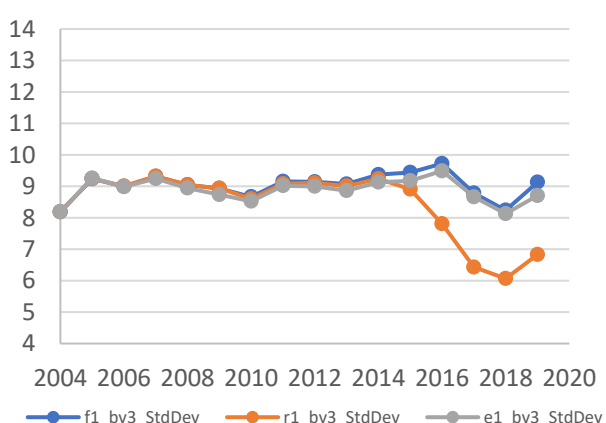
Non genotyped females with records



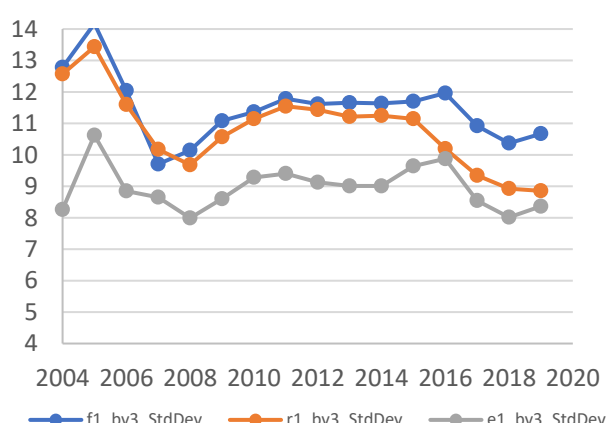
Genotyped females with records



Non genotyped females with records



Genotyped females with records

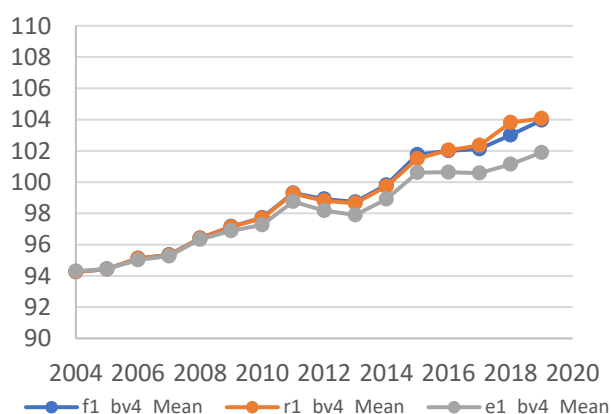


Mælkeafgiftsfonden

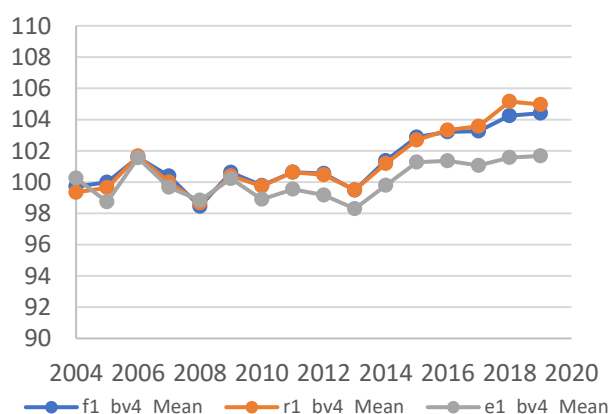
bv4

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	94.3	94.2	94.3	8.2	8.2	8.1	17	99.7	99.3	100.2	10.4	10.9	7.4
2005	6905	94.4	94.4	94.4	8.1	8.1	8.1	18	100.0	99.6	98.7	5.0	5.0	5.4
2006	7496	95.1	95.1	95.0	7.8	7.8	7.8	32	101.6	101.7	101.6	8.1	7.8	6.4
2007	7781	95.3	95.3	95.3	7.8	7.8	7.8	54	100.4	100.0	99.7	8.0	8.0	5.9
2008	8183	96.4	96.4	96.3	7.5	7.5	7.4	66	98.4	98.7	98.8	9.1	8.9	6.9
2009	8830	97.2	97.1	96.9	7.3	7.3	7.2	100	100.6	100.4	100.2	7.7	7.4	6.4
2010	7346	97.7	97.7	97.3	7.4	7.3	7.3	1171	99.8	99.7	98.9	9.4	9.2	7.5
2011	6838	99.3	99.3	98.8	7.5	7.5	7.4	1923	100.6	100.6	99.5	9.6	9.5	7.7
2012	6709	98.9	98.8	98.2	7.6	7.5	7.5	1936	100.5	100.5	99.2	9.5	9.4	7.5
2013	5889	98.7	98.7	97.9	7.5	7.4	7.3	1335	99.5	99.5	98.3	10.0	9.8	7.9
2014	5777	99.8	99.7	98.9	7.1	7.0	7.0	1585	101.4	101.2	99.8	9.1	9.0	6.9
2015	5368	101.8	101.5	100.6	7.5	7.2	7.4	1611	102.9	102.7	101.3	9.5	9.3	7.4
2016	4734	102.0	102.0	100.6	7.8	6.5	7.7	1725	103.2	103.3	101.4	9.7	8.9	8.0
2017	4076	102.1	102.4	100.6	7.4	5.7	7.2	2064	103.3	103.6	101.1	9.1	8.2	7.0
2018	3445	103.0	103.8	101.1	7.7	5.7	7.6	2087	104.2	105.2	101.6	9.2	8.2	7.4
2019	283	104.0	104.1	101.9	8.1	6.3	8.0	226	104.4	105.0	101.7	9.2	8.4	7.2

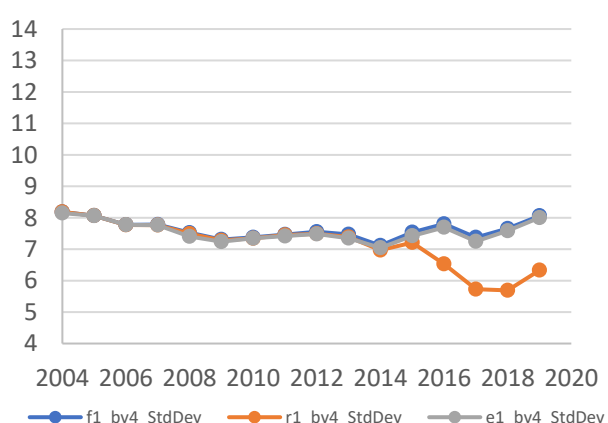
Non genotyped females with records



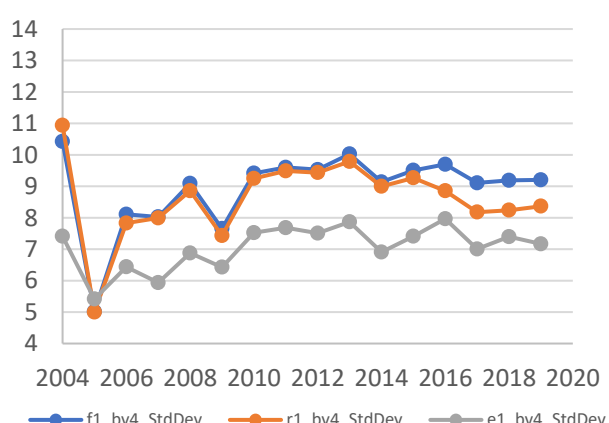
Genotyped females with records



Non genotyped females with records



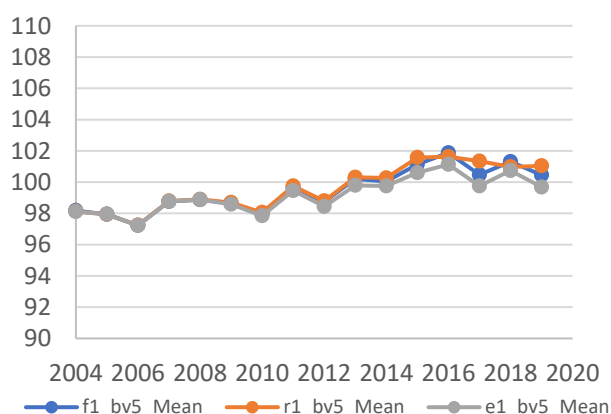
Genotyped females with records



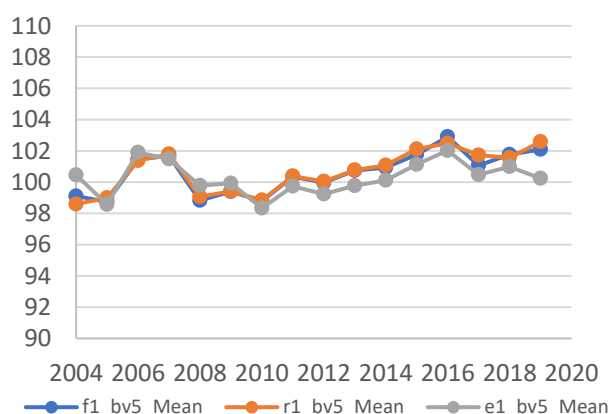
bv5

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	98.2	98.1	98.1	8.4	8.4	8.4	17	99.1	98.6	100.5	12.5	12.9	10.3
2005	6905	97.9	97.9	98.0	7.8	7.8	7.8	18	98.7	99.0	98.6	6.9	6.6	6.7
2006	7496	97.2	97.2	97.2	7.9	7.9	8.0	32	101.5	101.4	101.9	8.6	8.6	7.2
2007	7781	98.8	98.8	98.8	7.5	7.5	7.4	54	101.7	101.8	101.5	9.7	9.7	7.4
2008	8183	98.9	98.9	98.9	7.7	7.7	7.7	66	98.8	99.1	99.8	9.4	9.3	7.3
2009	8830	98.6	98.7	98.6	7.8	7.8	7.7	100	99.4	99.4	99.9	10.1	9.9	8.3
2010	7346	98.0	98.1	97.8	7.9	7.9	7.8	1171	98.8	98.8	98.3	10.3	10.2	8.5
2011	6838	99.6	99.7	99.5	7.6	7.6	7.6	1923	100.4	100.4	99.7	9.7	9.5	7.7
2012	6709	98.7	98.8	98.4	7.9	7.9	7.9	1936	100.0	100.0	99.2	9.9	9.8	7.9
2013	5889	100.2	100.3	99.8	7.4	7.4	7.3	1335	100.7	100.8	99.8	9.6	9.5	7.6
2014	5777	100.0	100.3	99.8	7.4	7.3	7.2	1585	100.9	101.1	100.1	9.3	9.1	7.1
2015	5368	101.1	101.6	100.6	7.7	7.2	7.5	1611	101.8	102.1	101.1	9.7	9.1	7.4
2016	4734	101.9	101.6	101.1	8.1	6.7	8.0	1725	102.9	102.5	102.0	10.2	9.2	8.1
2017	4076	100.5	101.3	99.8	7.3	5.7	7.2	2064	101.1	101.7	100.5	9.3	8.3	7.0
2018	3445	101.3	101.0	100.7	7.4	6.1	7.4	2087	101.8	101.6	101.0	9.5	8.5	7.3
2019	283	100.5	101.0	99.7	7.5	6.1	7.5	226	102.1	102.6	100.2	9.6	8.8	7.4

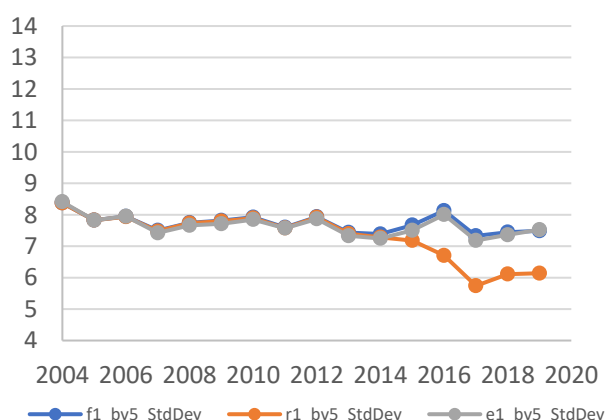
Non genotyped females with records



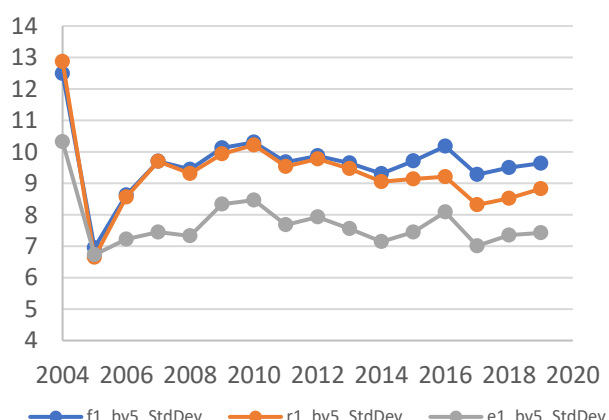
Genotyped females with records



Non genotyped females with records



Genotyped females with records

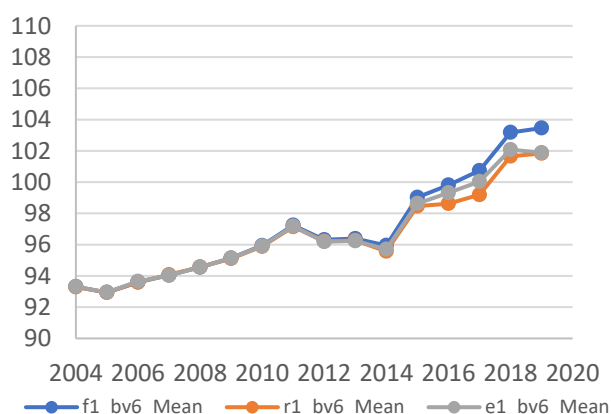


Mælkeafgiftsfonden

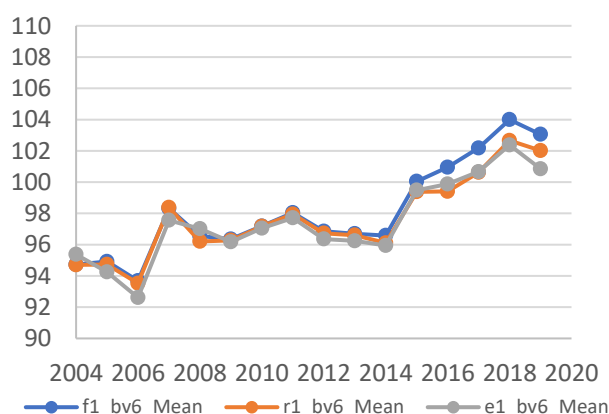
bv6

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6656	93.3	93.3	93.3	7.7	7.7	7.7	17	94.7	94.7	95.4	6.7	6.6	6.8
2005	6883	92.9	92.9	93.0	8.0	8.0	8.0	18	94.9	94.7	94.3	9.8	9.7	8.9
2006	7496	93.6	93.6	93.7	7.7	7.7	7.7	32	93.7	93.5	92.6	10.6	10.2	9.9
2007	7781	94.1	94.1	94.0	7.9	7.9	7.9	54	98.3	98.4	97.6	10.1	9.9	7.9
2008	8144	94.6	94.6	94.6	8.0	8.0	8.0	66	96.5	96.2	97.0	9.6	9.1	7.9
2009	8804	95.1	95.1	95.1	7.9	7.9	7.8	100	96.4	96.3	96.2	11.0	10.8	9.5
2010	7304	95.9	95.9	95.9	7.7	7.7	7.7	1171	97.2	97.2	97.1	9.5	9.4	7.8
2011	6823	97.2	97.1	97.2	7.9	7.9	7.9	1922	98.0	98.0	97.7	9.9	9.7	8.2
2012	6611	96.3	96.2	96.2	8.4	8.4	8.3	1908	96.9	96.7	96.4	10.3	10.1	8.6
2013	5833	96.4	96.3	96.2	7.4	7.4	7.3	1325	96.7	96.6	96.2	9.6	9.3	7.7
2014	5699	96.0	95.6	95.7	8.4	8.4	8.2	1579	96.6	96.1	95.9	10.2	10.0	8.4
2015	5212	99.0	98.5	98.6	9.0	8.6	8.9	1604	100.0	99.4	99.5	10.7	10.4	9.0
2016	4734	99.8	98.6	99.3	7.8	6.5	7.8	1724	101.0	99.4	99.9	9.4	8.7	7.5
2017	4076	100.7	99.2	100.0	7.7	6.4	7.6	2064	102.2	100.6	100.7	9.4	8.7	7.4
2018	3445	103.2	101.7	102.1	8.3	6.6	8.2	2087	104.0	102.7	102.4	10.1	8.7	8.3
2019	283	103.5	101.8	101.9	7.8	6.7	7.4	226	103.1	102.0	100.9	9.4	7.9	7.8

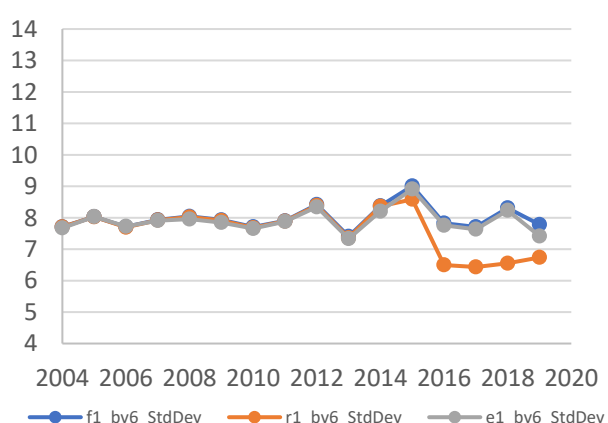
Non genotyped females with records



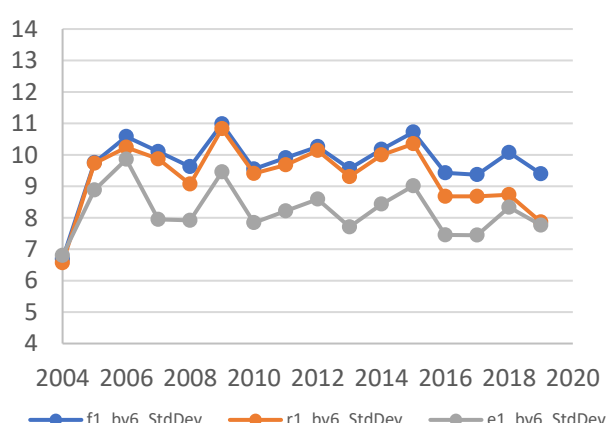
Genotyped females with records



Non genotyped females with records



Genotyped females with records

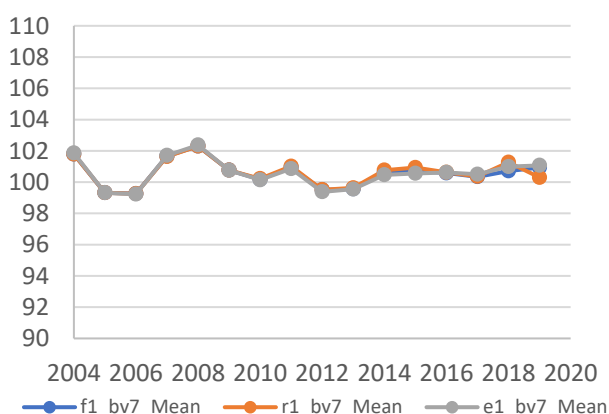


Mælkeafgiftsfonden

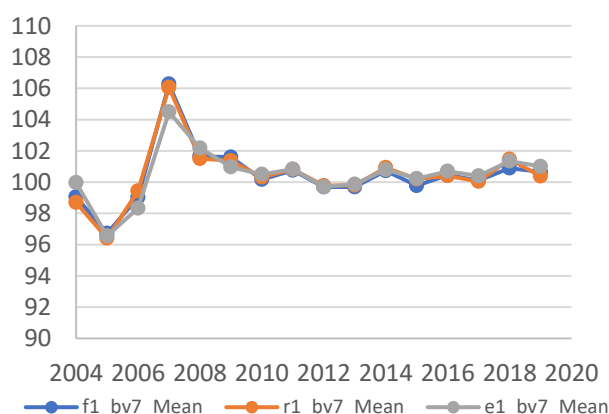
bv7

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	101.8	101.8	101.9	7.6	7.6	7.6	17	99.1	98.7	100.0	9.5	9.8	6.8
2005	6905	99.3	99.3	99.3	7.8	7.8	7.8	18	96.7	96.4	96.6	8.5	8.4	7.6
2006	7496	99.3	99.3	99.2	7.7	7.7	7.7	32	99.0	99.4	98.3	9.6	9.1	8.7
2007	7781	101.7	101.6	101.7	8.1	8.1	8.1	54	106.3	106.1	104.5	9.5	9.6	8.1
2008	8183	102.3	102.3	102.4	7.4	7.4	7.4	66	101.6	101.5	102.2	9.2	9.2	7.2
2009	8830	100.8	100.8	100.8	7.4	7.3	7.3	100	101.6	101.4	101.0	9.7	9.5	7.1
2010	7346	100.2	100.2	100.1	7.6	7.6	7.6	1171	100.2	100.3	100.5	9.6	9.5	7.7
2011	6838	100.9	101.0	100.9	7.6	7.6	7.6	1923	100.8	100.8	100.8	9.4	9.3	7.6
2012	6709	99.5	99.5	99.4	6.9	6.9	6.9	1936	99.7	99.8	99.7	9.3	9.2	7.1
2013	5889	99.6	99.6	99.5	7.1	7.0	7.0	1335	99.7	99.8	99.9	9.1	8.9	6.7
2014	5777	100.6	100.8	100.5	8.0	7.9	8.0	1585	100.7	100.9	100.8	9.8	9.5	7.9
2015	5368	100.7	100.9	100.6	8.3	7.6	8.2	1611	99.8	100.2	100.2	10.2	9.7	8.1
2016	4734	100.6	100.6	100.6	7.7	6.3	7.7	1725	100.5	100.4	100.7	9.5	8.6	7.6
2017	4076	100.3	100.4	100.5	7.6	6.1	7.5	2064	100.1	100.0	100.4	9.5	8.6	7.5
2018	3445	100.7	101.3	101.0	7.6	6.0	7.6	2087	100.9	101.5	101.3	9.7	8.6	7.7
2019	283	100.9	100.3	101.1	6.9	4.5	7.1	226	100.7	100.4	101.0	8.2	7.5	5.8

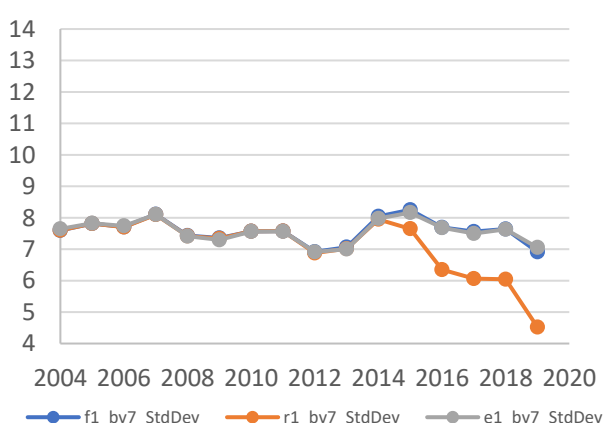
Non genotyped females with records



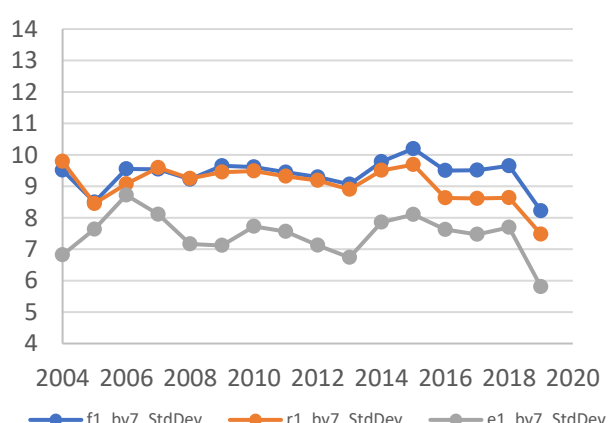
Genotyped females with records



Non genotyped females with records



Genotyped females with records

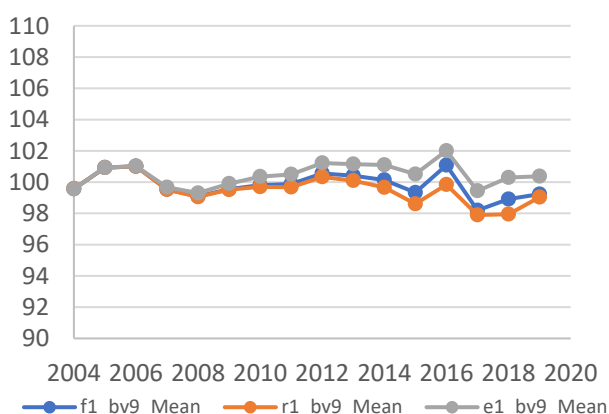


Mælkeafgiftsfonden

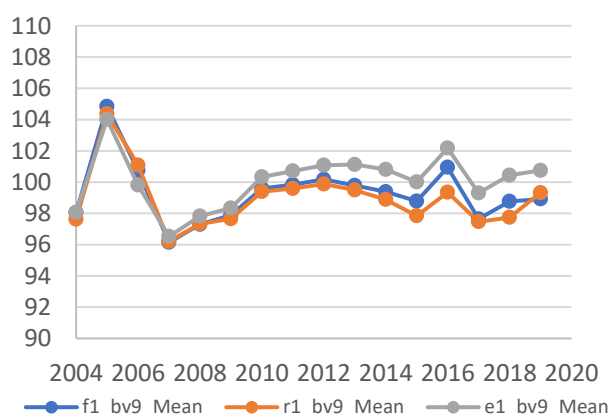
bv9

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	99.6	99.6	99.6	6.5	6.5	6.5	17	98.0	97.6	98.1	8.7	8.1	7.5
2005	6905	100.9	100.9	100.9	6.5	6.5	6.5	18	104.8	104.4	104.0	6.5	6.3	5.3
2006	7496	101.0	101.0	101.0	6.5	6.5	6.5	32	100.8	101.1	99.8	7.8	7.7	7.6
2007	7781	99.5	99.5	99.7	7.1	7.1	7.0	54	96.1	96.2	96.5	8.3	8.1	5.9
2008	8183	99.1	99.1	99.3	6.7	6.7	6.6	66	97.3	97.3	97.8	8.9	8.7	6.7
2009	8830	99.5	99.5	99.9	7.3	7.2	7.1	100	97.9	97.7	98.3	9.3	9.0	7.5
2010	7346	99.8	99.7	100.4	7.0	6.9	6.9	1171	99.6	99.4	100.3	9.1	8.8	6.9
2011	6838	99.9	99.7	100.5	6.6	6.6	6.5	1923	99.8	99.6	100.7	8.9	8.6	6.7
2012	6709	100.6	100.3	101.2	6.5	6.4	6.4	1936	100.2	99.9	101.1	8.4	8.1	6.4
2013	5889	100.4	100.1	101.1	6.4	6.3	6.2	1335	99.8	99.5	101.1	8.5	8.1	6.2
2014	5777	100.1	99.7	101.1	6.3	6.2	6.1	1585	99.4	98.9	100.8	8.4	8.1	6.3
2015	5368	99.3	98.6	100.5	6.3	5.8	6.1	1611	98.8	97.8	100.0	8.3	7.9	5.9
2016	4734	101.1	99.8	102.0	7.1	5.2	7.0	1725	100.9	99.4	102.2	9.3	7.8	7.1
2017	4076	98.2	97.9	99.4	7.0	5.2	6.9	2064	97.6	97.5	99.3	8.7	7.6	6.6
2018	3445	98.9	97.9	100.3	5.9	4.5	5.8	2087	98.8	97.7	100.4	8.3	7.3	5.8
2019	283	99.2	99.0	100.4	5.7	4.9	5.5	226	98.9	99.3	100.7	7.6	6.6	5.1

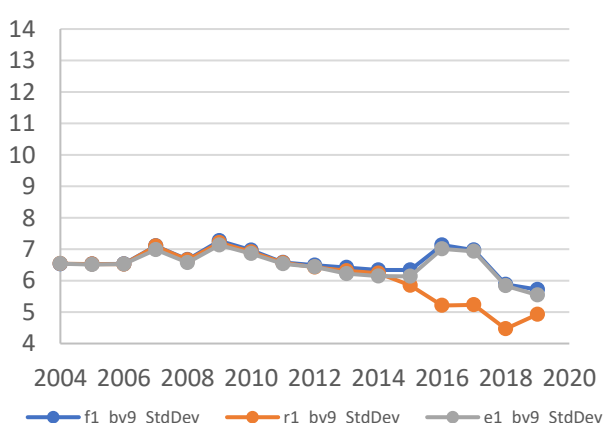
Non genotyped females with records



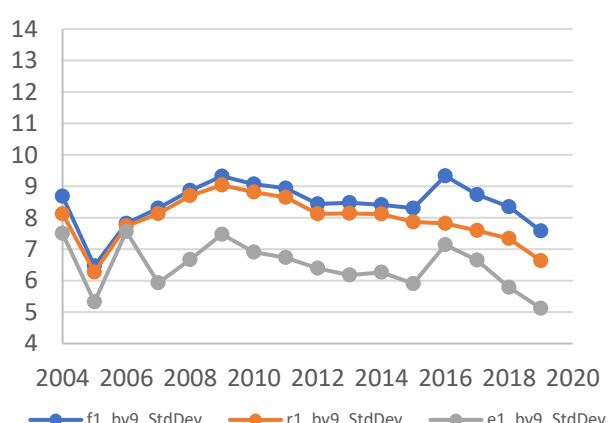
Genotyped females with records



Non genotyped females with records



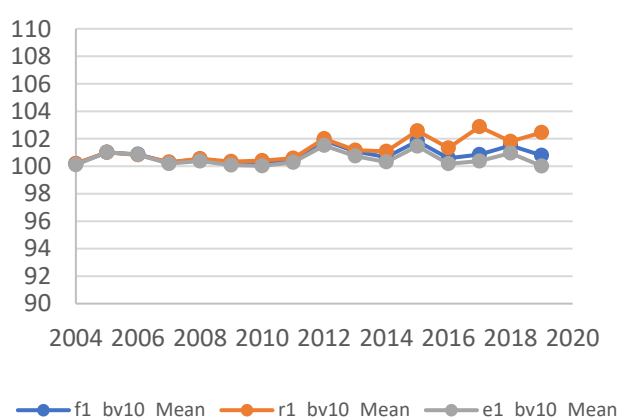
Genotyped females with records



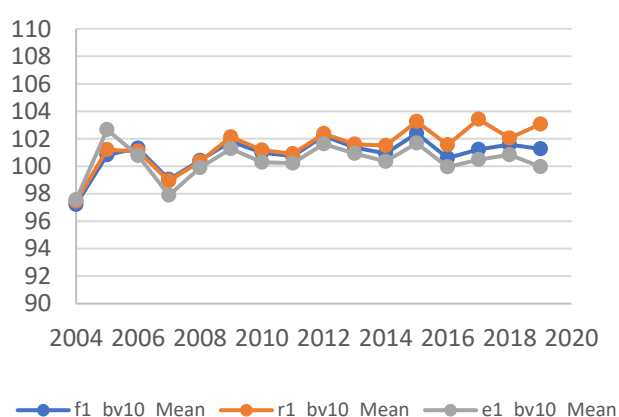
bv10

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6656	100.2	100.2	100.1	6.1	6.1	6.1	17	97.2	97.4	97.6	9.1	8.8	7.7
2005	6883	101.0	101.0	101.0	6.8	6.8	6.9	18	100.8	101.2	102.7	9.3	9.2	8.1
2006	7496	100.9	100.8	100.8	6.6	6.6	6.6	32	101.3	101.1	100.8	6.9	7.0	7.0
2007	7781	100.3	100.3	100.2	6.1	6.0	6.0	54	99.0	98.9	97.9	7.1	6.9	4.5
2008	8144	100.5	100.5	100.4	6.3	6.2	6.2	66	100.4	100.3	99.9	8.0	7.8	6.2
2009	8804	100.3	100.3	100.1	5.9	5.8	5.8	100	101.8	102.1	101.3	9.2	9.0	6.9
2010	7304	100.3	100.4	100.0	5.6	5.5	5.5	1171	101.0	101.2	100.3	7.3	7.1	5.3
2011	6823	100.5	100.6	100.3	5.3	5.3	5.3	1922	100.7	100.9	100.2	7.7	7.4	5.4
2012	6611	101.9	102.0	101.5	6.0	5.9	5.9	1908	102.2	102.4	101.6	8.2	7.9	6.2
2013	5833	101.1	101.2	100.7	5.8	5.7	5.7	1325	101.4	101.6	100.9	7.6	7.4	5.6
2014	5699	100.7	101.1	100.3	6.0	5.9	5.8	1579	100.9	101.5	100.3	7.9	7.5	5.9
2015	5212	101.8	102.6	101.5	5.4	5.2	5.2	1604	102.4	103.3	101.7	7.7	7.4	5.4
2016	4734	100.6	101.3	100.2	6.7	5.7	6.7	1724	100.6	101.6	99.9	8.6	7.6	7.0
2017	4076	100.9	102.9	100.4	5.6	4.6	5.4	2064	101.2	103.4	100.5	7.4	6.4	5.4
2018	3445	101.5	101.8	101.0	6.7	4.9	6.7	2087	101.6	102.0	100.8	8.4	6.7	6.9
2019	283	100.8	102.4	100.0	7.2	5.0	7.0	226	101.3	103.1	100.0	8.8	6.5	7.1

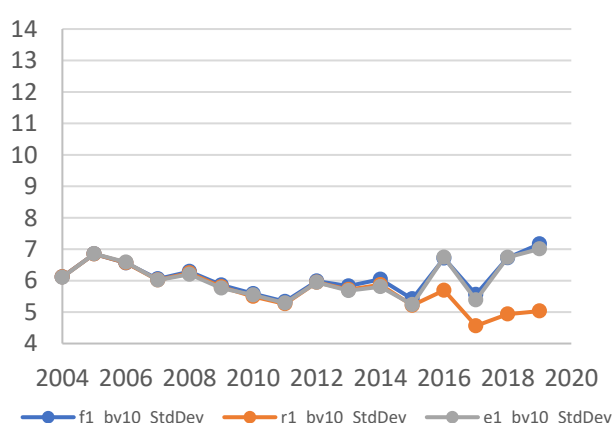
Non genotyped females with records



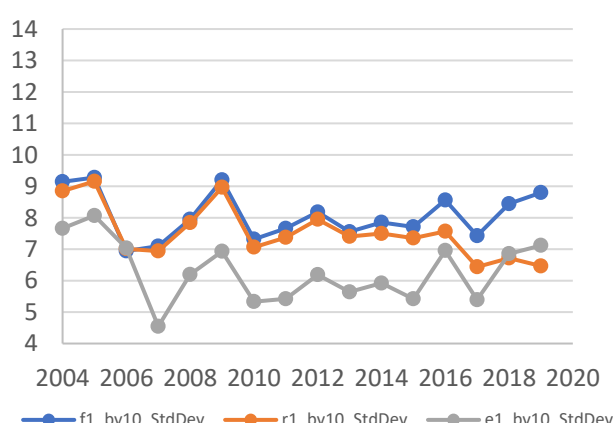
Genotyped females with records



Non genotyped females with records



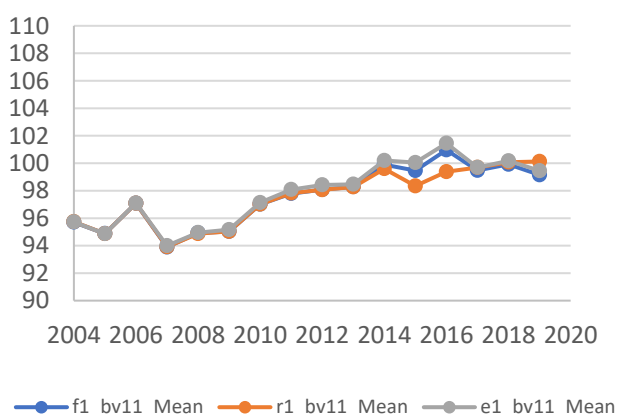
Genotyped females with records



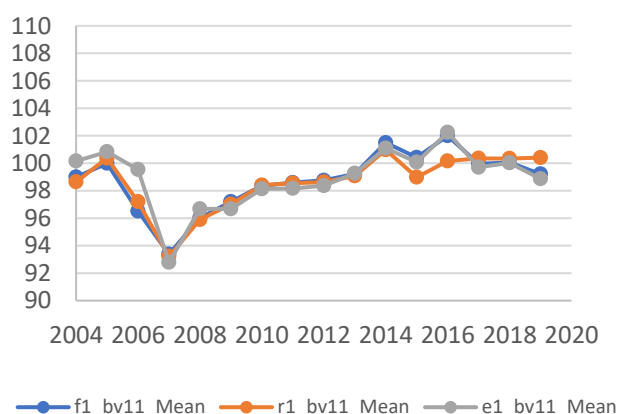
bv11

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6656	95.7	95.7	95.7	7.8	7.7	7.8	17	99.0	98.6	100.2	13.8	12.5	9.4
2005	6883	94.9	94.9	94.9	9.5	9.5	9.5	18	100.0	100.4	100.8	12.9	12.6	9.7
2006	7496	97.1	97.1	97.1	9.2	9.2	9.1	32	96.5	97.2	99.5	12.5	12.6	10.2
2007	7781	93.9	93.9	94.0	9.1	9.1	9.0	54	93.4	93.2	92.8	10.3	10.1	7.8
2008	8144	94.9	94.9	94.9	8.6	8.6	8.5	66	96.0	95.9	96.7	9.8	10.0	8.6
2009	8804	95.0	95.0	95.2	8.4	8.4	8.2	100	97.2	97.0	96.7	12.5	11.9	8.9
2010	7304	97.0	97.0	97.1	8.0	7.9	7.9	1171	98.4	98.4	98.1	10.3	10.0	7.9
2011	6823	97.8	97.8	98.1	8.1	7.9	7.9	1922	98.6	98.5	98.2	10.9	10.5	8.2
2012	6611	98.1	98.1	98.4	7.7	7.6	7.5	1908	98.8	98.6	98.4	10.2	9.8	7.4
2013	5833	98.3	98.3	98.5	8.1	8.0	7.9	1325	99.2	99.1	99.3	10.8	10.5	8.1
2014	5699	99.9	99.6	100.2	8.6	8.4	8.3	1579	101.5	101.0	101.1	10.9	10.5	8.2
2015	5212	99.5	98.3	100.0	8.6	8.1	8.3	1604	100.4	99.0	100.1	11.6	10.8	9.0
2016	4734	101.0	99.4	101.4	11.4	8.2	11.2	1724	102.0	100.2	102.2	13.8	10.7	11.6
2017	4076	99.5	99.7	99.7	8.7	6.8	8.5	2064	100.0	100.4	99.7	11.0	9.4	8.8
2018	3445	99.9	100.1	100.2	9.2	5.9	9.1	2087	100.1	100.3	100.0	11.7	9.1	9.2
2019	283	99.1	100.1	99.5	9.6	6.2	9.4	226	99.2	100.4	98.9	11.8	9.1	9.1

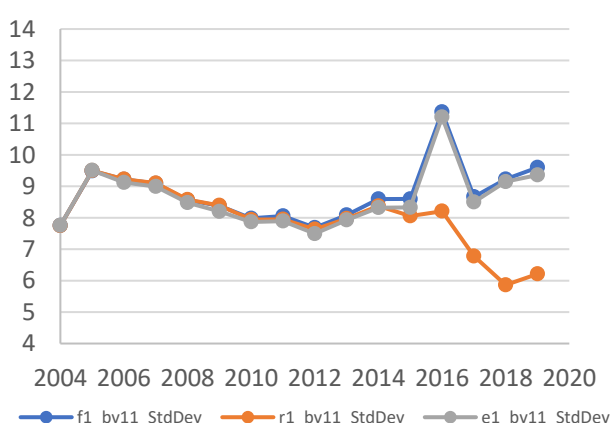
Non genotyped females with records



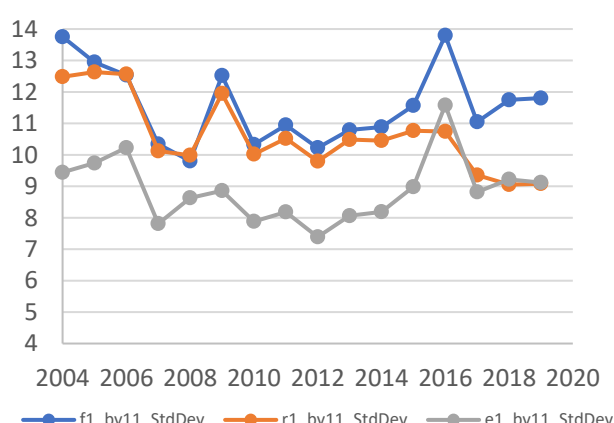
Genotyped females with records



Non genotyped females with records



Genotyped females with records

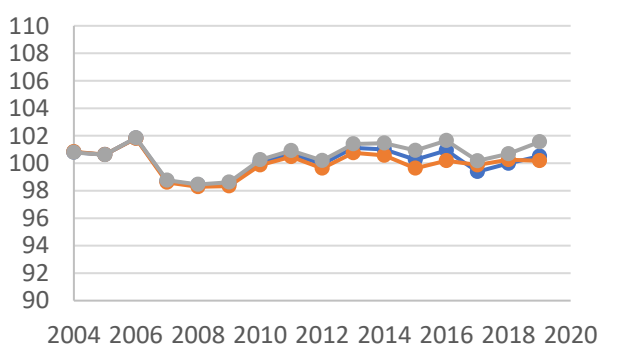


Mælkeafgiftsfonden

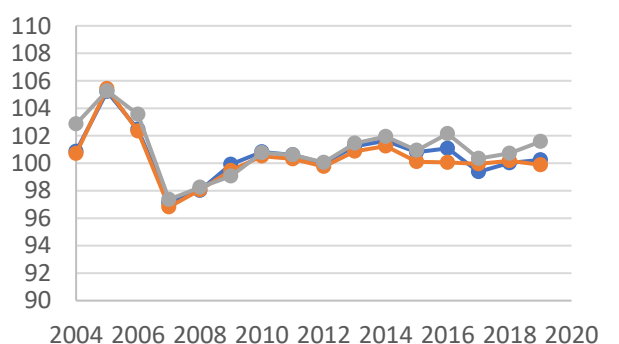
bv12

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6656	100.8	100.8	100.8	7.6	7.6	7.7	17	100.9	100.7	102.9	15.0	14.6	10.5
2005	6883	100.6	100.6	100.6	9.1	9.1	9.1	18	105.2	105.4	105.3	15.4	14.5	12.8
2006	7496	101.8	101.8	101.9	8.5	8.5	8.5	32	102.5	102.3	103.6	11.2	11.0	9.1
2007	7781	98.7	98.6	98.8	9.0	9.0	8.9	54	97.1	96.8	97.4	11.7	11.5	9.7
2008	8144	98.4	98.3	98.5	8.6	8.6	8.5	66	98.0	98.1	98.2	10.4	10.0	7.6
2009	8804	98.5	98.3	98.6	8.7	8.7	8.5	100	99.9	99.5	99.1	11.1	10.8	8.5
2010	7304	100.1	99.9	100.2	8.1	8.0	8.0	1171	100.8	100.5	100.8	10.9	10.7	8.6
2011	6823	100.7	100.5	100.9	8.8	8.8	8.7	1922	100.6	100.3	100.6	11.5	11.2	9.0
2012	6611	99.9	99.6	100.2	8.7	8.7	8.5	1908	100.0	99.8	100.1	11.1	10.8	8.7
2013	5833	101.1	100.8	101.4	8.3	8.2	8.1	1325	101.2	100.9	101.4	10.6	10.3	8.1
2014	5699	101.0	100.6	101.5	8.3	8.2	8.0	1579	101.6	101.2	101.9	10.7	10.3	8.0
2015	5212	100.3	99.6	100.9	9.9	9.6	9.7	1604	100.8	100.1	100.9	12.8	12.3	10.7
2016	4734	100.9	100.2	101.6	10.3	8.8	10.0	1724	101.1	100.1	102.2	12.6	11.1	10.3
2017	4076	99.4	99.9	100.2	8.2	7.1	8.0	2064	99.4	99.9	100.3	10.9	9.7	8.2
2018	3445	100.0	100.3	100.7	7.9	6.2	7.7	2087	100.0	100.2	100.7	10.5	9.1	7.7
2019	283	100.5	100.2	101.6	8.1	6.3	7.7	226	100.2	99.9	101.6	10.4	8.6	7.3

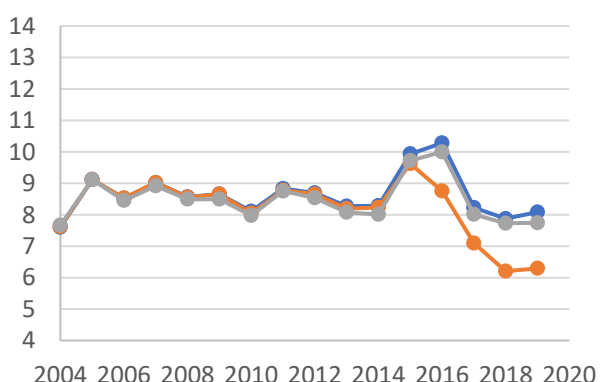
Non genotyped females with records



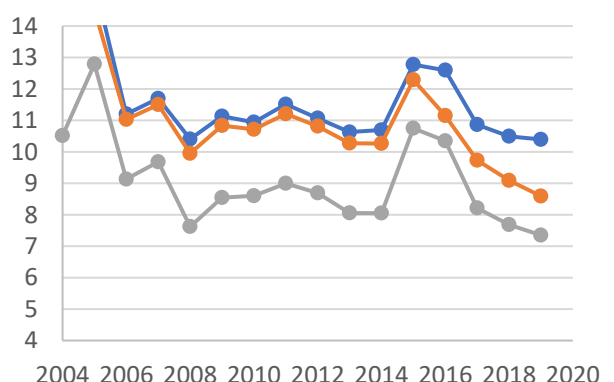
Genotyped females with records



Non genotyped females with records



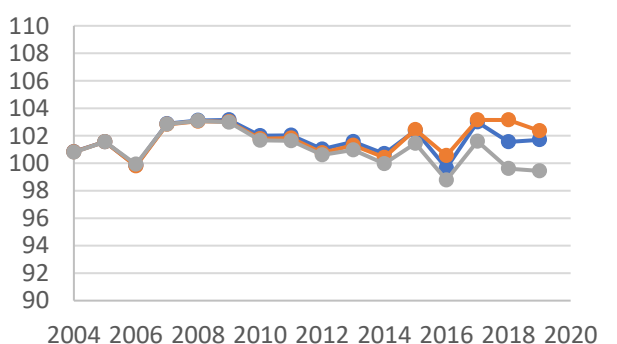
Genotyped females with records



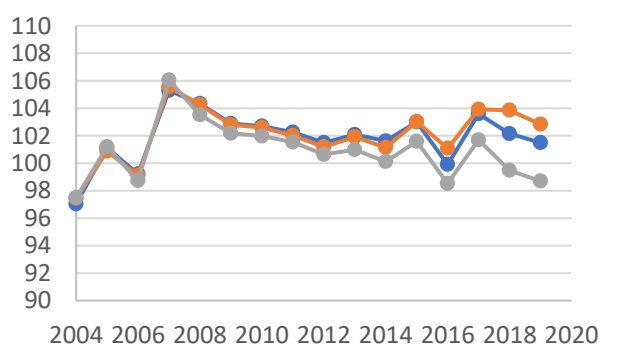
bv13

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	100.8	100.8	100.8	6.9	6.8	6.9	17	97.0	97.4	97.5	9.3	9.5	8.5
2005	6905	101.6	101.6	101.6	7.1	7.1	7.1	18	101.1	100.9	101.2	8.8	8.8	8.0
2006	7496	99.8	99.8	99.9	7.3	7.3	7.3	32	99.2	99.1	98.7	6.6	6.5	6.0
2007	7781	102.9	102.8	102.8	7.1	7.1	7.1	54	105.3	105.6	106.1	9.2	9.0	7.2
2008	8183	103.1	103.0	103.1	7.9	7.8	7.8	66	104.3	104.3	103.5	8.7	8.4	8.4
2009	8830	103.2	103.0	103.0	7.2	7.2	7.2	100	102.9	102.8	102.2	8.9	8.9	7.2
2010	7346	102.0	101.8	101.7	6.7	6.7	6.7	1171	102.7	102.6	102.0	8.4	8.2	6.5
2011	6838	102.0	101.8	101.6	6.8	6.7	6.8	1923	102.3	102.0	101.5	8.8	8.6	6.9
2012	6709	101.0	100.8	100.6	7.2	7.2	7.2	1936	101.5	101.2	100.6	9.1	8.9	7.4
2013	5889	101.6	101.3	101.0	7.0	6.9	7.0	1335	102.1	101.9	101.0	8.4	8.1	6.9
2014	5777	100.7	100.4	100.0	7.0	7.0	7.0	1585	101.6	101.1	100.1	8.7	8.6	7.0
2015	5368	102.4	102.4	101.4	7.0	6.5	6.9	1611	103.0	103.0	101.6	8.8	8.3	6.8
2016	4734	99.6	100.6	98.8	7.7	5.7	7.7	1725	99.9	101.1	98.5	9.4	7.9	7.5
2017	4076	103.0	103.2	101.6	6.8	5.4	6.8	2064	103.6	103.9	101.7	8.3	7.6	6.6
2018	3445	101.6	103.1	99.6	6.8	5.0	6.8	2087	102.2	103.9	99.5	8.8	7.4	7.0
2019	283	101.7	102.4	99.4	6.8	5.2	6.7	226	101.5	102.8	98.7	8.8	7.6	6.9

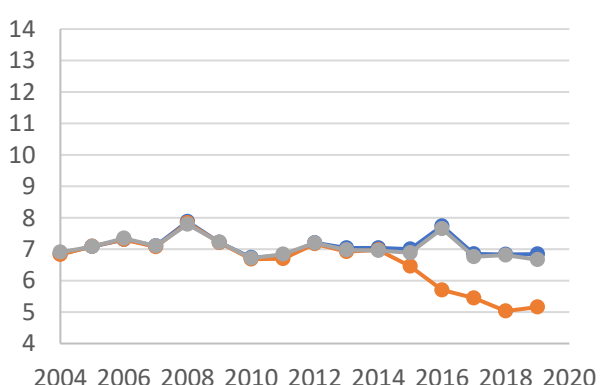
Non genotyped females with records



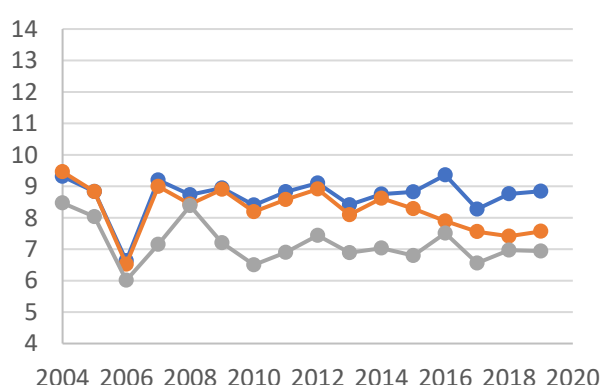
Genotyped females with records



Non genotyped females with records



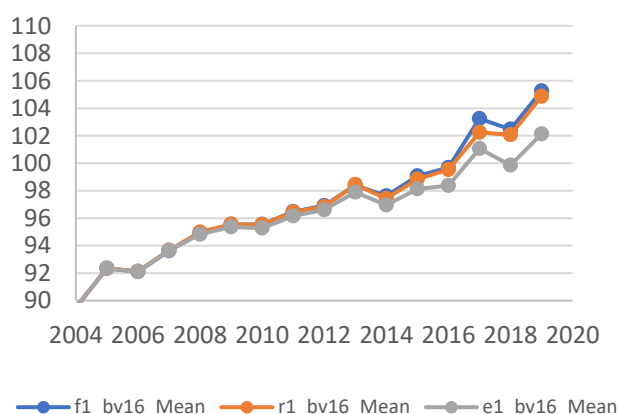
Genotyped females with records



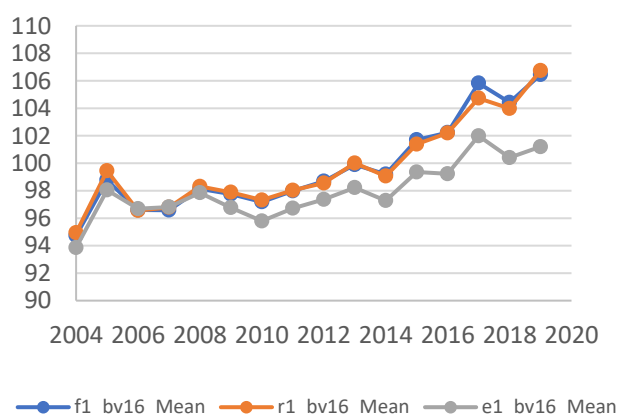
bv16

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	89.5	89.5	89.5	7.4	7.4	7.4	17	94.7	94.9	93.9	8.4	8.9	7.5
2005	6905	92.3	92.4	92.3	8.0	8.0	8.0	18	98.8	99.4	98.0	10.0	9.7	9.1
2006	7496	92.1	92.1	92.1	8.2	8.2	8.2	32	96.6	96.6	96.7	9.3	9.9	8.6
2007	7781	93.6	93.7	93.7	7.7	7.7	7.7	54	96.6	96.8	96.8	9.6	9.3	8.0
2008	8183	94.9	95.0	94.8	7.3	7.3	7.3	66	98.1	98.3	97.9	9.6	9.4	8.0
2009	8830	95.5	95.6	95.4	7.6	7.6	7.5	100	97.8	97.9	96.8	8.5	8.4	7.5
2010	7346	95.5	95.5	95.3	7.5	7.4	7.4	1171	97.2	97.3	95.8	9.4	9.2	7.5
2011	6838	96.5	96.4	96.2	7.3	7.2	7.2	1923	98.0	98.0	96.7	9.6	9.4	7.6
2012	6709	96.9	96.8	96.6	7.3	7.3	7.2	1936	98.7	98.6	97.4	9.6	9.4	7.4
2013	5889	98.4	98.4	97.9	7.3	7.2	7.2	1335	99.9	100.0	98.2	9.5	9.3	7.2
2014	5777	97.6	97.4	97.0	7.7	7.6	7.4	1585	99.2	99.1	97.3	9.6	9.4	7.5
2015	5368	99.1	98.8	98.1	7.4	6.8	7.2	1610	101.7	101.4	99.4	9.3	8.8	7.0
2016	4734	99.7	99.5	98.4	7.5	5.7	7.3	1725	102.2	102.2	99.2	9.7	8.1	7.7
2017	4076	103.2	102.2	101.1	7.6	5.6	7.5	2064	105.8	104.7	102.0	9.4	8.1	7.3
2018	3445	102.5	102.1	99.9	7.2	5.4	7.1	2087	104.4	104.0	100.4	9.3	8.1	7.1
2019	283	105.3	104.9	102.1	7.7	5.7	7.4	226	106.4	106.7	101.2	10.1	8.7	7.8

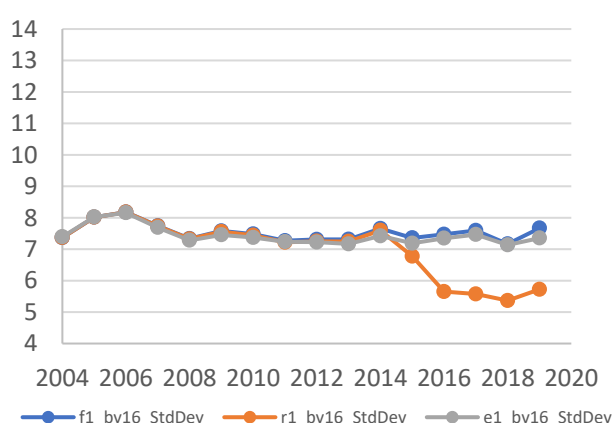
Non genotyped females with records



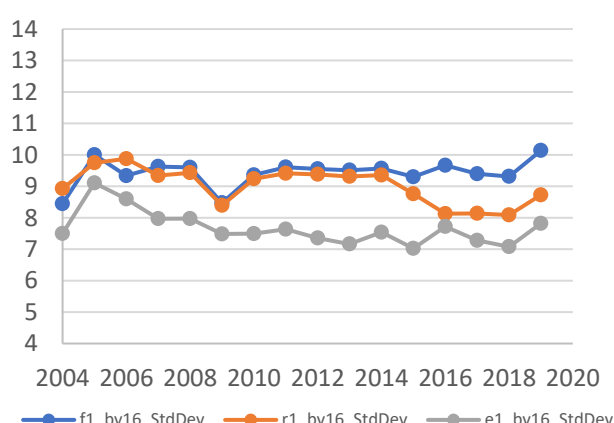
Genotyped females with records



Non genotyped females with records



Genotyped females with records

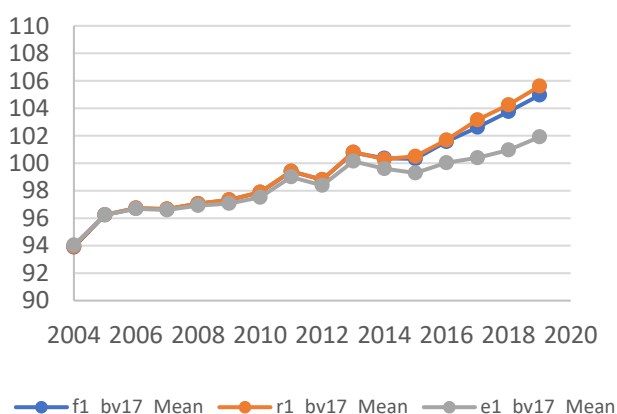


Mælkeafgiftsfonden

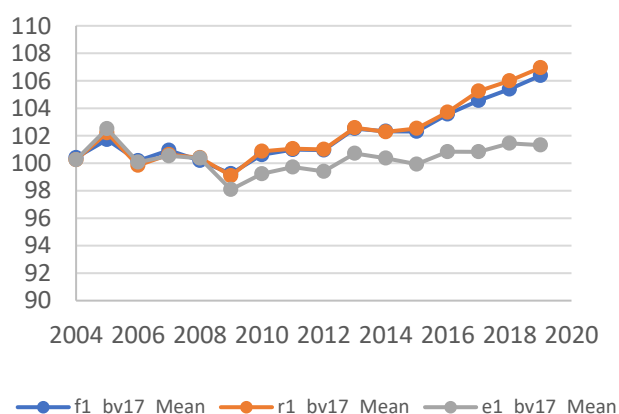
bv17

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	93.9	93.9	94.0	7.0	7.0	7.0	17	100.4	100.3	100.3	7.4	7.6	5.8
2005	6905	96.2	96.2	96.2	7.3	7.3	7.3	18	101.7	102.2	102.5	7.1	7.2	5.3
2006	7496	96.7	96.7	96.7	7.2	7.2	7.2	32	100.2	99.8	100.1	8.1	8.0	6.2
2007	7781	96.7	96.7	96.6	6.8	6.8	6.7	54	100.9	100.6	100.5	8.0	7.6	6.9
2008	8183	97.1	97.1	96.9	6.2	6.2	6.2	66	100.2	100.4	100.4	7.1	7.1	5.6
2009	8830	97.3	97.3	97.1	6.2	6.2	6.2	100	99.2	99.1	98.1	7.7	7.1	5.8
2010	7346	97.9	97.9	97.5	6.5	6.5	6.5	1171	100.6	100.9	99.2	8.2	8.0	6.6
2011	6838	99.4	99.4	99.0	6.4	6.4	6.4	1923	101.0	101.1	99.7	8.4	8.1	6.7
2012	6709	98.8	98.8	98.4	6.6	6.5	6.5	1936	101.0	101.0	99.4	8.0	7.8	6.6
2013	5889	100.8	100.8	100.1	6.7	6.6	6.6	1335	102.5	102.6	100.7	8.4	8.1	6.8
2014	5777	100.4	100.3	99.6	6.3	6.2	6.2	1585	102.3	102.3	100.4	7.8	7.4	6.0
2015	5368	100.3	100.5	99.3	6.3	5.8	6.1	1610	102.3	102.5	99.9	7.9	7.3	6.3
2016	4734	101.6	101.7	100.0	6.1	5.1	6.0	1725	103.6	103.7	100.8	7.6	6.9	5.8
2017	4076	102.6	103.2	100.4	5.8	4.7	5.7	2064	104.6	105.2	100.8	7.7	6.8	5.8
2018	3445	103.8	104.3	101.0	6.0	4.2	5.9	2087	105.4	106.0	101.4	7.9	6.6	6.0
2019	283	105.0	105.6	101.9	6.2	4.1	6.2	226	106.4	107.0	101.3	7.9	6.3	6.0

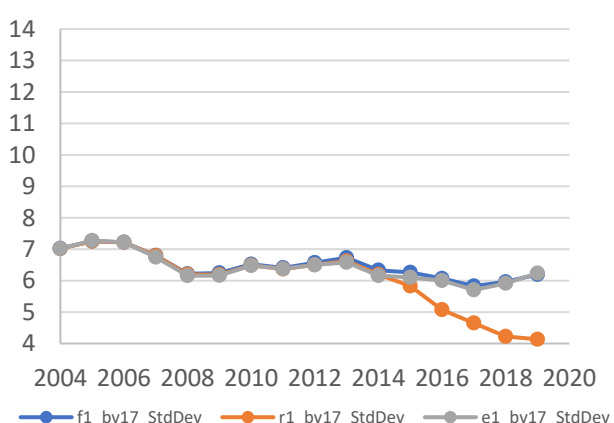
Non genotyped females with records



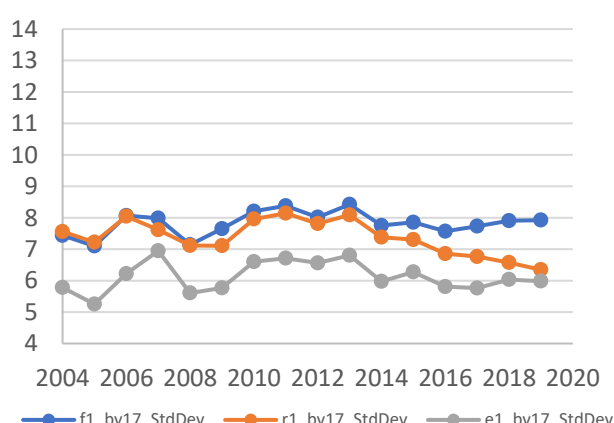
Genotyped females with records



Non genotyped females with records



Genotyped females with records

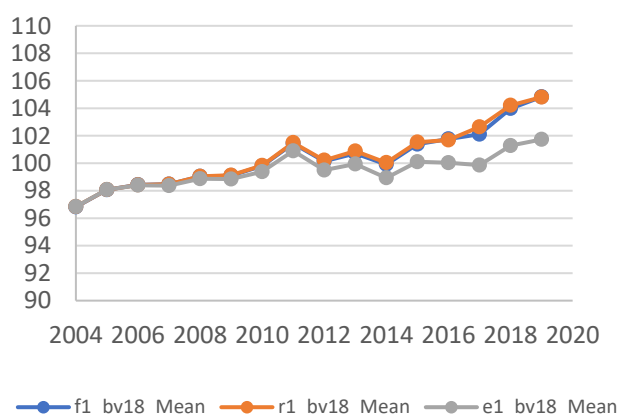


Mælkeafgiftsfonden

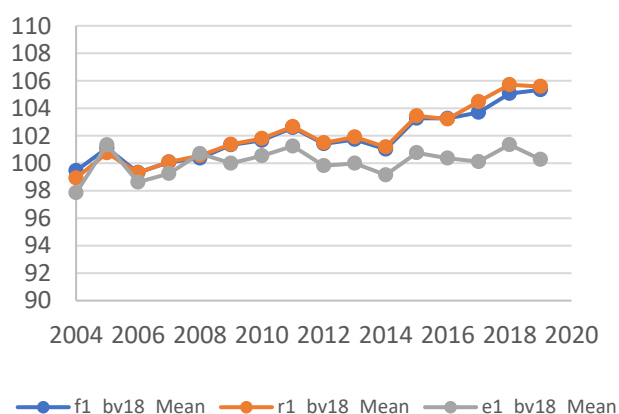
bv18

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6656	96.8	96.8	96.8	6.2	6.2	6.2	17	99.5	98.9	97.8	6.9	6.8	5.8
2005	6883	98.1	98.1	98.1	6.5	6.5	6.5	18	101.1	100.8	101.3	7.1	7.1	5.9
2006	7496	98.4	98.4	98.4	7.0	7.0	6.9	32	99.3	99.3	98.6	8.8	8.9	7.5
2007	7781	98.5	98.5	98.4	6.8	6.8	6.7	54	100.1	100.1	99.2	7.8	7.4	6.4
2008	8144	99.0	99.0	98.9	6.1	6.1	6.1	66	100.4	100.5	100.7	8.0	7.7	6.0
2009	8804	99.1	99.1	98.8	6.1	6.0	6.0	100	101.3	101.4	100.0	7.9	7.8	5.5
2010	7304	99.8	99.8	99.4	6.7	6.7	6.7	1171	101.7	101.8	100.5	8.3	8.2	6.9
2011	6823	101.4	101.5	100.9	6.5	6.4	6.5	1922	102.6	102.7	101.2	8.2	7.9	6.7
2012	6611	100.1	100.2	99.5	6.6	6.5	6.5	1908	101.4	101.5	99.8	8.3	8.0	6.6
2013	5833	100.7	100.9	99.9	6.5	6.4	6.4	1325	101.7	101.9	100.0	8.2	7.9	6.7
2014	5699	99.9	100.0	98.9	7.1	7.1	7.0	1579	101.0	101.2	99.1	9.1	8.8	7.4
2015	5212	101.4	101.5	100.1	7.1	6.7	7.0	1603	103.3	103.4	100.8	8.6	8.1	7.1
2016	4734	101.8	101.7	100.0	7.3	5.4	7.2	1724	103.3	103.2	100.4	9.1	7.5	7.4
2017	4076	102.1	102.6	99.9	7.0	5.1	6.9	2064	103.7	104.5	100.1	8.8	7.4	6.9
2018	3445	104.0	104.2	101.3	7.0	5.4	6.8	2087	105.1	105.7	101.3	8.7	7.5	7.0
2019	283	104.8	104.8	101.7	7.9	5.8	7.9	226	105.3	105.6	100.3	9.1	8.0	6.3

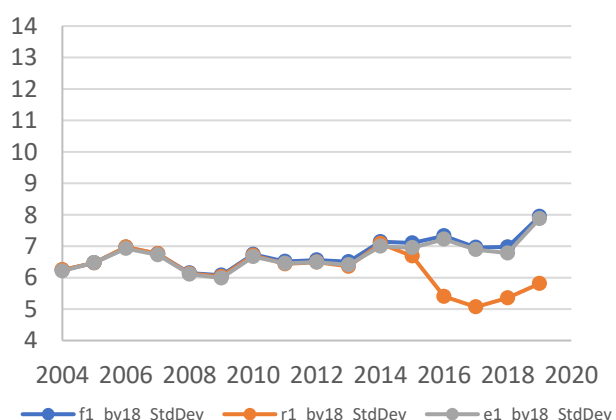
Non genotyped females with records



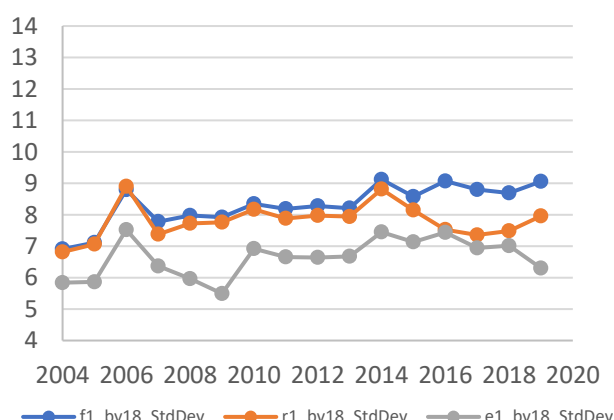
Genotyped females with records



Non genotyped females with records



Genotyped females with records

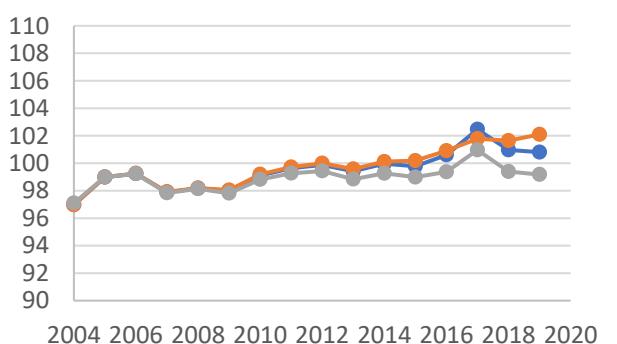


Mælkeafgiftsfonden

bv19

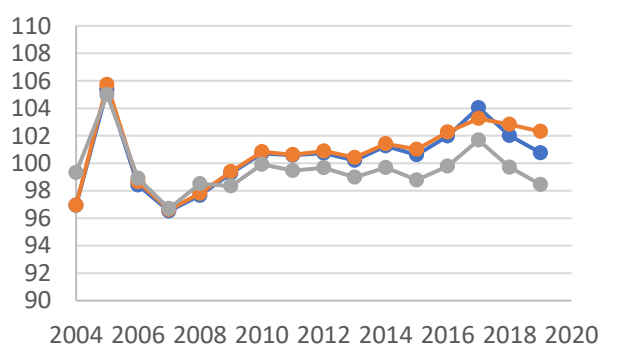
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	97.0	97.0	97.1	8.2	8.2	8.2	17	96.9	96.9	99.3	10.4	10.0	9.0
2005	6905	99.0	99.0	99.0	8.3	8.3	8.4	18	105.3	105.7	105.0	11.2	11.3	8.8
2006	7496	99.2	99.3	99.2	8.0	8.0	8.0	32	98.4	98.6	98.9	10.1	10.0	7.8
2007	7781	97.9	97.9	97.8	8.1	8.1	8.0	54	96.5	96.6	96.7	9.0	9.0	8.2
2008	8183	98.2	98.2	98.1	8.5	8.5	8.4	66	97.7	97.8	98.5	10.6	10.4	8.7
2009	8830	98.0	98.0	97.8	8.7	8.6	8.5	100	99.3	99.4	98.3	11.2	10.8	9.6
2010	7346	99.1	99.2	98.8	8.4	8.4	8.4	1171	100.7	100.8	99.9	10.8	10.6	8.9
2011	6838	99.6	99.7	99.3	8.0	7.9	8.0	1923	100.6	100.6	99.5	10.5	10.3	8.3
2012	6709	99.9	100.0	99.4	8.0	8.0	8.0	1936	100.7	100.9	99.7	10.3	10.0	8.2
2013	5889	99.4	99.6	98.8	7.8	7.8	7.7	1335	100.2	100.4	99.0	10.1	9.7	7.8
2014	5777	100.0	100.1	99.3	7.4	7.3	7.2	1585	101.3	101.4	99.7	9.8	9.5	7.5
2015	5368	99.8	100.2	99.0	7.3	6.8	7.1	1610	100.6	101.0	98.8	9.6	9.0	7.5
2016	4734	100.6	100.9	99.4	8.0	6.6	7.8	1725	102.0	102.3	99.8	9.8	8.8	7.8
2017	4076	102.5	101.8	101.0	7.3	6.0	7.2	2064	104.0	103.3	101.7	9.7	8.6	7.4
2018	3445	101.0	101.6	99.4	7.6	5.7	7.4	2087	102.0	102.8	99.7	9.6	8.2	7.7
2019	283	100.8	102.1	99.2	8.5	6.2	8.2	226	100.8	102.3	98.4	9.0	7.8	7.6

Non genotyped females with records



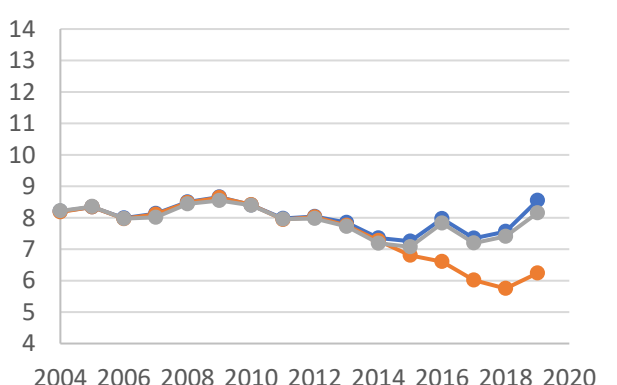
f1_bv19_Mean r1_bv19_Mean e1_bv19_Mean

Genotyped females with records



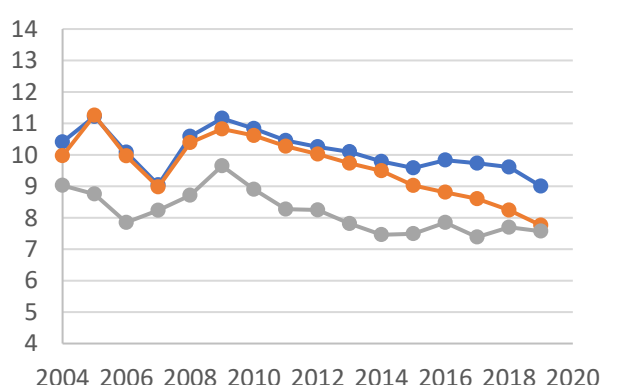
f1_bv19_Mean r1_bv19_Mean e1_bv19_Mean

Non genotyped females with records



f1_bv19_StdDev r1_bv19_StdDev e1_bv19_StdDev

Genotyped females with records



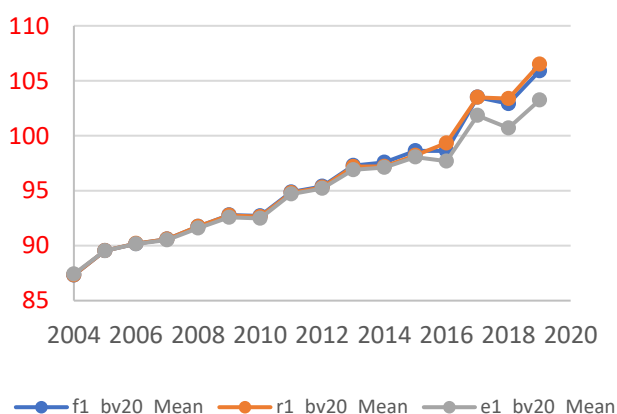
f1_bv19_StdDev r1_bv19_StdDev e1_bv19_StdDev

Mælkeafgiftsfonden

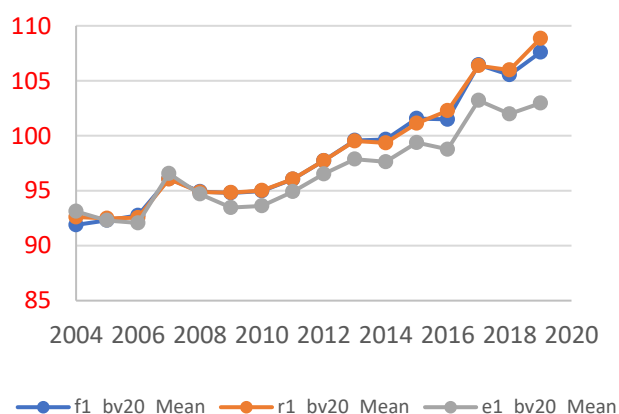
bv20

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	87.3	87.3	87.4	8.3	8.3	8.3	17	91.9	92.6	93.1	8.2	8.3	7.2
2005	6905	89.5	89.5	89.5	8.4	8.4	8.4	18	92.3	92.5	92.3	8.7	8.7	7.4
2006	7496	90.2	90.2	90.2	8.0	8.0	8.0	32	92.8	92.5	92.1	11.4	11.5	8.9
2007	7781	90.6	90.6	90.5	8.1	8.1	8.1	54	96.1	96.1	96.6	10.5	10.2	9.3
2008	8183	91.7	91.7	91.6	8.4	8.4	8.3	66	94.9	94.9	94.7	10.6	10.5	9.1
2009	8830	92.8	92.8	92.6	8.6	8.6	8.5	100	94.8	94.8	93.5	11.2	11.0	10.0
2010	7346	92.7	92.6	92.5	8.4	8.4	8.4	1171	95.0	95.0	93.6	10.3	10.1	8.3
2011	6838	94.9	94.8	94.7	8.5	8.5	8.5	1923	96.0	96.1	94.9	10.9	10.7	9.1
2012	6709	95.4	95.3	95.2	8.1	8.0	8.0	1936	97.7	97.7	96.5	9.9	9.7	7.7
2013	5889	97.3	97.2	96.9	7.9	7.9	7.8	1335	99.6	99.5	97.9	10.3	10.1	8.1
2014	5777	97.6	97.2	97.1	8.1	8.1	7.9	1585	99.7	99.4	97.6	10.0	9.9	7.9
2015	5368	98.6	98.2	98.1	8.2	7.6	8.0	1610	101.6	101.1	99.4	9.9	9.4	7.6
2016	4734	98.6	99.3	97.7	7.7	6.1	7.7	1725	101.5	102.3	98.8	9.9	9.0	7.7
2017	4076	103.5	103.5	101.8	8.2	6.5	8.1	2064	106.5	106.4	103.2	10.6	9.5	8.1
2018	3445	102.9	103.4	100.7	8.6	6.2	8.7	2087	105.5	106.0	102.0	11.0	9.5	8.7
2019	283	105.9	106.5	103.2	9.0	6.6	8.9	226	107.6	108.8	103.0	10.9	9.5	8.4

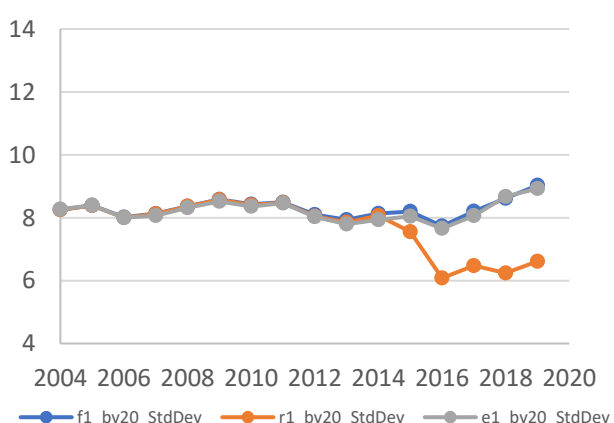
Non genotyped females with records



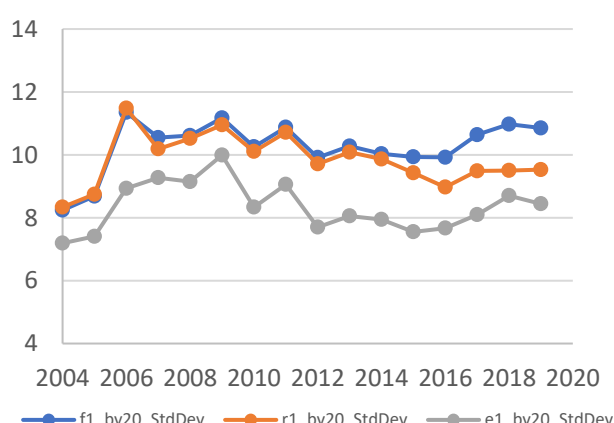
Genotyped females with records



Non genotyped females with records



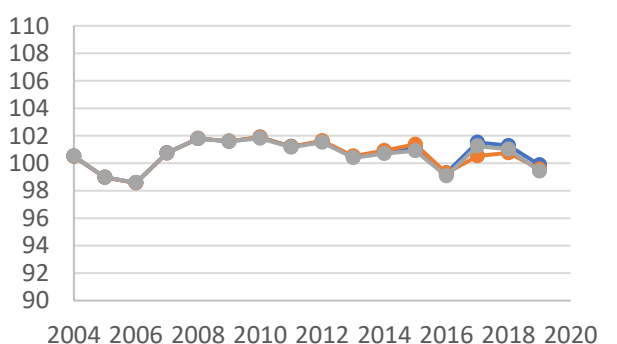
Genotyped females with records



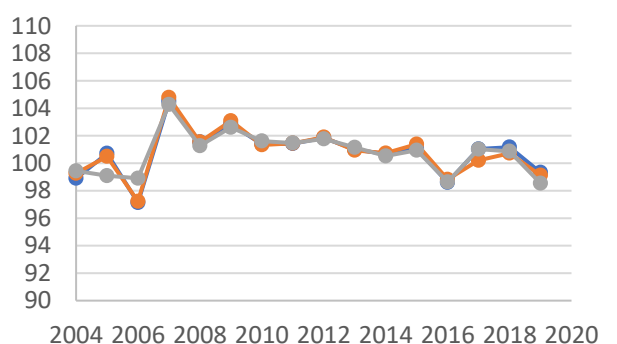
bv21

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6655	100.5	100.5	100.5	9.3	9.3	9.3	17	98.9	99.3	99.4	10.7	10.6	10.2
2005	6883	99.0	99.0	99.0	9.5	9.5	9.5	18	100.7	100.5	99.1	12.3	11.7	9.3
2006	7496	98.6	98.6	98.6	9.5	9.4	9.5	32	97.1	97.2	98.9	10.9	10.3	9.9
2007	7781	100.7	100.7	100.7	10.3	10.3	10.3	54	104.5	104.8	104.3	12.2	12.0	10.4
2008	8144	101.8	101.8	101.8	9.7	9.7	9.6	66	101.5	101.5	101.3	10.4	10.2	9.1
2009	8804	101.6	101.6	101.6	9.9	9.9	9.8	100	102.8	103.1	102.6	11.1	11.3	9.3
2010	7304	101.9	101.9	101.8	10.2	10.2	10.2	1171	101.4	101.3	101.6	12.0	11.9	10.6
2011	6823	101.2	101.2	101.2	10.5	10.5	10.4	1922	101.4	101.4	101.5	12.4	12.3	10.8
2012	6611	101.6	101.6	101.5	10.3	10.2	10.2	1908	101.8	101.9	101.8	12.2	11.9	10.1
2013	5833	100.5	100.5	100.4	10.1	10.0	10.0	1325	101.0	100.9	101.2	12.3	12.1	10.3
2014	5699	100.8	100.9	100.7	10.2	10.1	10.1	1579	100.7	100.7	100.5	11.9	11.6	9.9
2015	5212	101.1	101.4	100.9	9.4	8.6	9.3	1603	101.1	101.4	100.9	11.5	11.0	9.4
2016	4734	99.3	99.3	99.1	10.3	8.7	10.2	1724	98.6	98.8	98.6	12.1	11.5	10.3
2017	4076	101.5	100.5	101.3	9.8	7.0	9.8	2064	101.0	100.2	101.0	11.3	10.0	9.7
2018	3445	101.3	100.8	101.0	9.8	7.7	9.7	2087	101.2	100.7	100.9	11.5	10.3	9.9
2019	283	99.9	99.6	99.4	10.2	6.9	10.1	226	99.3	99.1	98.5	11.3	9.3	9.2

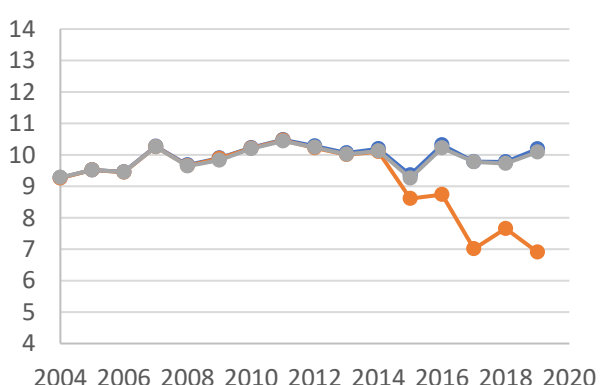
Non genotyped females with records



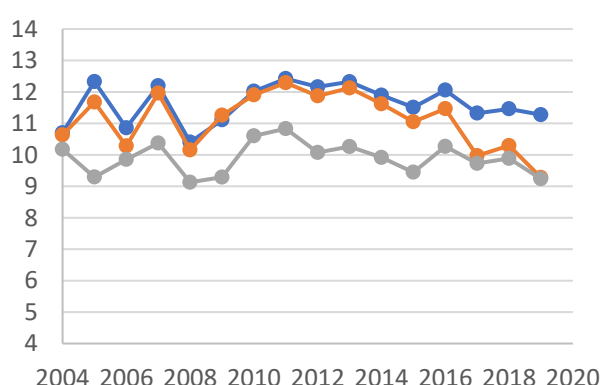
Genotyped females with records



Non genotyped females with records



Genotyped females with records

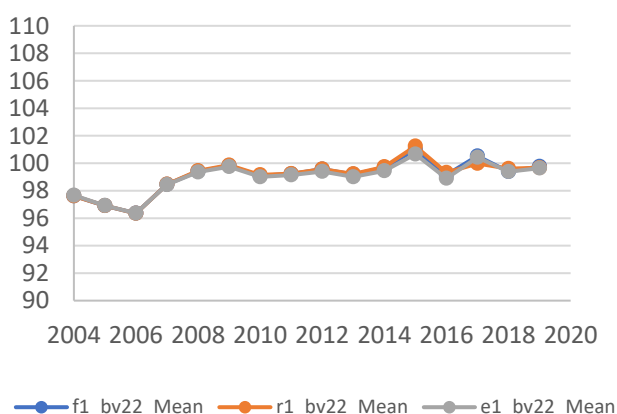


Mælkeafgiftsfonden

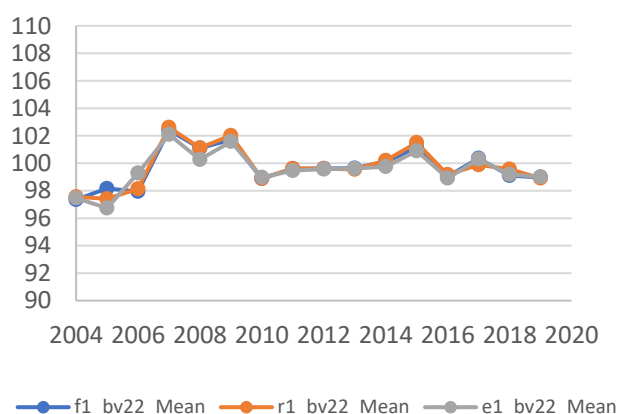
bv22

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	97.6	97.6	97.7	7.5	7.5	7.6	17	97.4	97.5	97.5	9.7	9.1	8.4
2005	6905	96.9	96.9	96.9	7.4	7.4	7.4	18	98.2	97.4	96.7	8.2	7.7	6.7
2006	7496	96.4	96.3	96.4	7.4	7.4	7.4	32	97.9	98.1	99.3	6.3	6.2	5.2
2007	7781	98.5	98.5	98.4	7.8	7.8	7.8	54	102.4	102.6	102.1	7.7	7.9	6.5
2008	8183	99.4	99.4	99.4	7.6	7.6	7.6	66	101.1	101.1	100.3	7.6	7.7	6.6
2009	8830	99.8	99.9	99.7	7.7	7.7	7.7	100	101.7	102.0	101.6	8.4	8.4	7.2
2010	7346	99.1	99.2	99.0	7.6	7.6	7.6	1171	98.9	98.9	99.0	8.2	8.2	7.4
2011	6838	99.2	99.2	99.1	7.4	7.4	7.4	1923	99.6	99.6	99.5	9.1	9.0	7.9
2012	6709	99.6	99.6	99.4	7.4	7.4	7.4	1936	99.6	99.6	99.6	8.6	8.6	7.3
2013	5889	99.2	99.2	99.0	7.3	7.3	7.3	1335	99.6	99.6	99.6	8.6	8.5	7.5
2014	5777	99.7	99.7	99.4	7.4	7.3	7.4	1585	100.1	100.2	99.7	8.4	8.2	7.2
2015	5368	101.0	101.2	100.7	7.2	6.8	7.2	1610	101.1	101.5	100.9	8.8	8.5	7.6
2016	4734	99.2	99.3	98.9	7.9	6.4	7.9	1725	99.0	99.2	98.9	8.9	8.4	7.7
2017	4076	100.5	100.0	100.4	7.6	5.5	7.7	2064	100.4	99.9	100.3	8.4	7.5	7.4
2018	3445	99.4	99.6	99.4	7.2	4.8	7.3	2087	99.1	99.6	99.2	8.6	7.5	7.4
2019	283	99.8	99.7	99.6	7.3	4.8	7.3	226	99.0	98.9	99.0	8.7	7.2	7.4

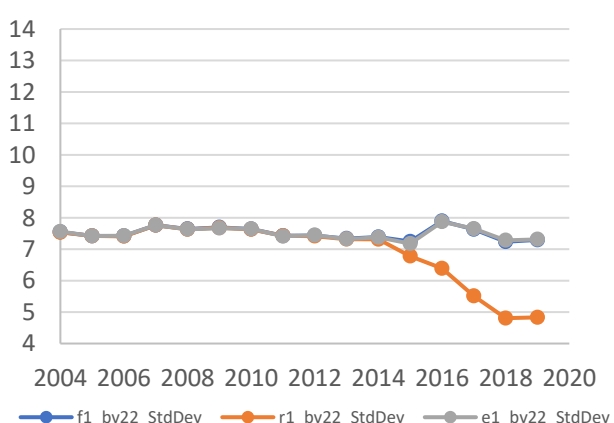
Non genotyped females with records



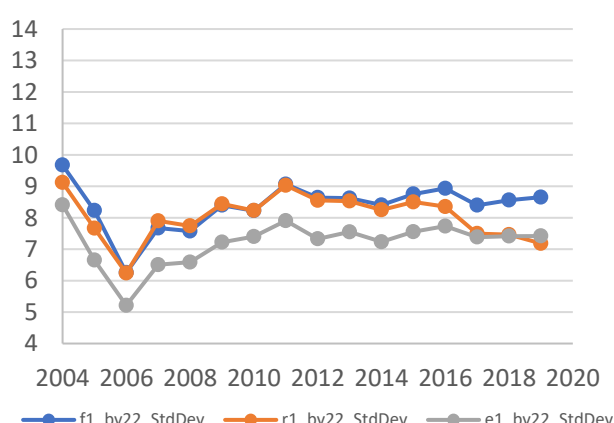
Genotyped females with records



Non genotyped females with records



Genotyped females with records

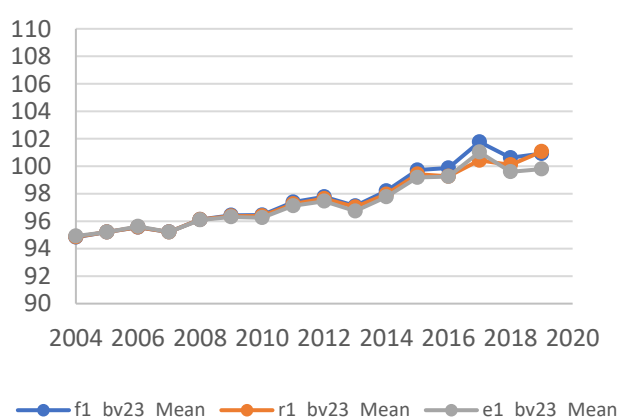


Mælkeafgiftsfonden

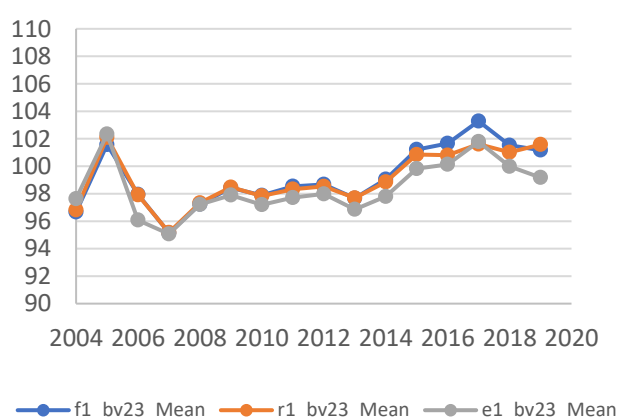
bv23

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6658	94.8	94.9	94.9	7.5	7.5	7.5	17	96.7	96.8	97.6	5.9	5.8	4.9
2005	6905	95.2	95.2	95.2	7.7	7.7	7.7	18	101.6	102.1	102.3	9.8	10.6	7.9
2006	7496	95.6	95.6	95.6	7.8	7.8	7.8	32	98.0	97.9	96.1	9.6	9.3	8.1
2007	7781	95.2	95.2	95.2	7.7	7.7	7.6	54	95.2	95.2	95.1	11.9	11.6	9.4
2008	8183	96.1	96.1	96.1	7.9	7.9	7.8	66	97.2	97.3	97.2	10.8	10.7	8.9
2009	8830	96.4	96.4	96.3	7.8	7.8	7.7	100	98.4	98.5	97.9	10.3	9.8	8.7
2010	7346	96.4	96.4	96.3	8.0	8.0	7.9	1171	97.9	97.8	97.2	10.4	10.1	8.2
2011	6838	97.4	97.3	97.1	8.2	8.2	8.1	1923	98.5	98.3	97.7	10.6	10.4	8.4
2012	6709	97.8	97.6	97.5	8.1	8.1	8.0	1936	98.7	98.5	98.0	10.6	10.3	8.3
2013	5889	97.1	97.0	96.7	7.7	7.6	7.6	1335	97.7	97.7	96.9	10.3	10.0	8.0
2014	5777	98.2	98.0	97.8	7.7	7.6	7.6	1585	99.0	98.9	97.8	10.1	9.7	7.7
2015	5368	99.7	99.4	99.2	7.6	7.2	7.5	1610	101.2	100.8	99.8	10.2	9.8	7.7
2016	4734	99.9	99.3	99.2	8.4	7.1	8.3	1725	101.7	100.8	100.1	10.7	9.7	8.5
2017	4076	101.8	100.4	101.0	8.5	6.1	8.4	2064	103.3	101.6	101.8	10.6	8.8	8.4
2018	3445	100.6	100.1	99.6	8.2	5.8	8.2	2087	101.5	101.0	100.0	10.4	8.8	8.2
2019	283	100.9	101.1	99.8	8.5	6.1	8.6	226	101.2	101.6	99.2	10.1	8.1	8.7

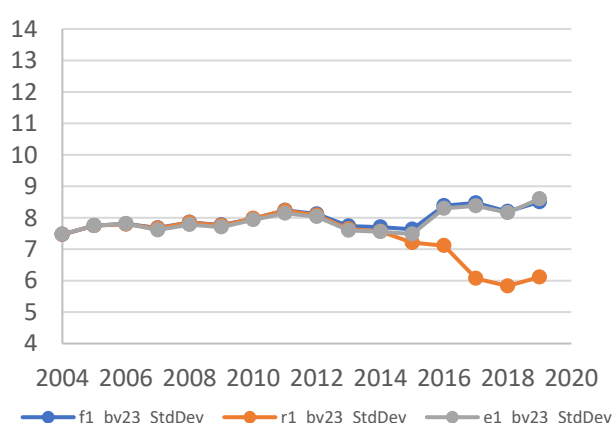
Non genotyped females with records



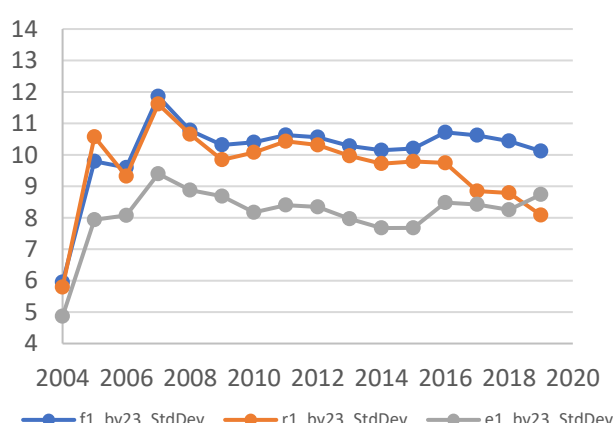
Genotyped females with records



Non genotyped females with records



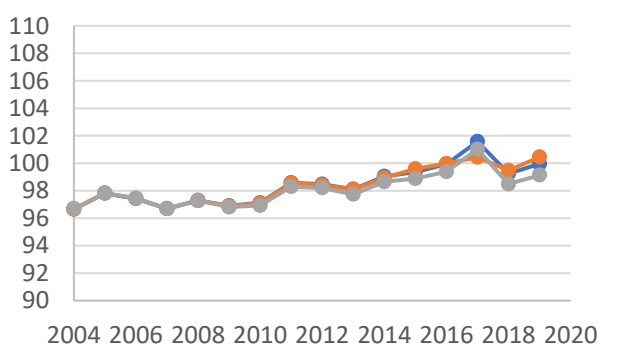
Genotyped females with records



bv24

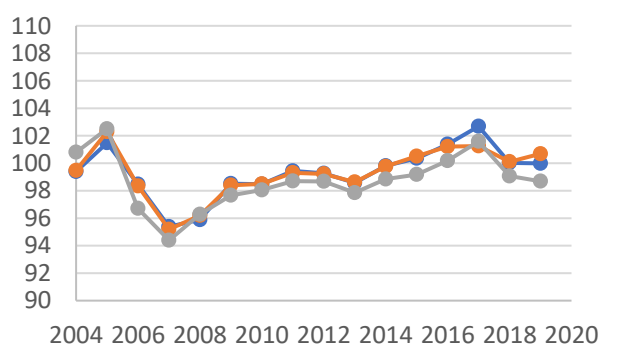
	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	6655	96.7	96.7	96.7	8.1	8.1	8.1	17	99.4	99.5	100.8	8.8	8.5	8.2
2005	6883	97.8	97.8	97.8	8.7	8.7	8.7	18	101.5	102.3	102.5	10.9	11.5	8.6
2006	7496	97.4	97.4	97.5	8.9	8.9	8.9	32	98.5	98.3	96.7	11.8	11.5	10.2
2007	7781	96.7	96.7	96.7	8.4	8.4	8.4	54	95.4	95.2	94.4	9.1	8.7	7.1
2008	8144	97.3	97.3	97.3	8.4	8.4	8.4	66	95.9	96.2	96.3	10.8	10.7	8.8
2009	8804	96.9	96.9	96.8	8.0	7.9	7.9	100	98.5	98.4	97.7	11.2	10.7	8.8
2010	7304	97.1	97.1	96.9	8.3	8.3	8.3	1171	98.5	98.5	98.1	11.1	10.8	8.7
2011	6823	98.6	98.5	98.3	8.6	8.6	8.5	1922	99.4	99.3	98.7	10.9	10.6	8.6
2012	6611	98.5	98.4	98.2	8.3	8.3	8.3	1908	99.3	99.2	98.7	10.9	10.6	8.5
2013	5833	98.1	98.1	97.7	8.1	8.0	8.0	1325	98.6	98.6	97.9	10.6	10.2	8.1
2014	5699	99.0	98.9	98.6	8.4	8.3	8.4	1579	99.8	99.8	98.8	10.9	10.5	8.5
2015	5212	99.4	99.6	98.9	7.9	7.3	7.7	1603	100.4	100.5	99.2	10.2	9.7	7.6
2016	4734	99.9	100.0	99.4	8.8	7.1	8.7	1724	101.4	101.2	100.2	11.3	9.9	9.0
2017	4076	101.6	100.4	101.0	7.9	5.9	7.8	2064	102.7	101.2	101.6	10.3	8.7	7.9
2018	3445	99.2	99.5	98.5	8.8	5.9	8.7	2087	100.0	100.1	99.1	10.8	8.8	8.6
2019	283	99.9	100.4	99.1	9.3	6.5	9.3	226	100.0	100.7	98.7	10.4	8.1	8.9

Non genotyped females with records



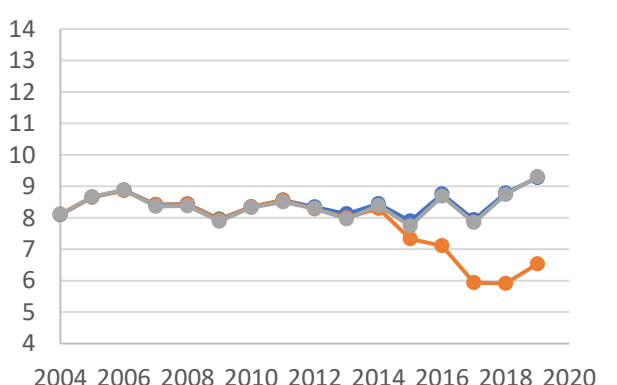
f1_bv24_Mean r1_bv24_Mean e1_bv24_Mean

Genotyped females with records



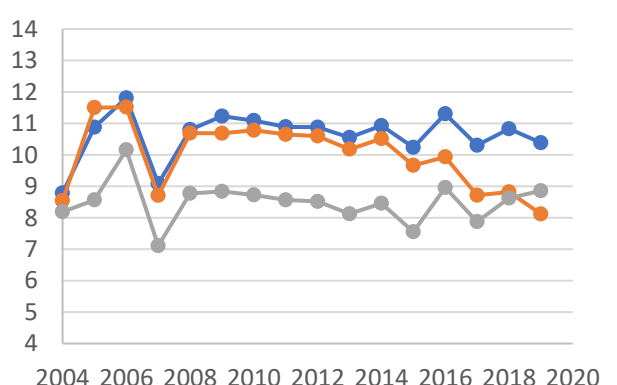
f1_bv24_Mean r1_bv24_Mean e1_bv24_Mean

Non genotyped females with records



f1_bv24_StdDev r1_bv24_StdDev e1_bv24_StdDev

Genotyped females with records

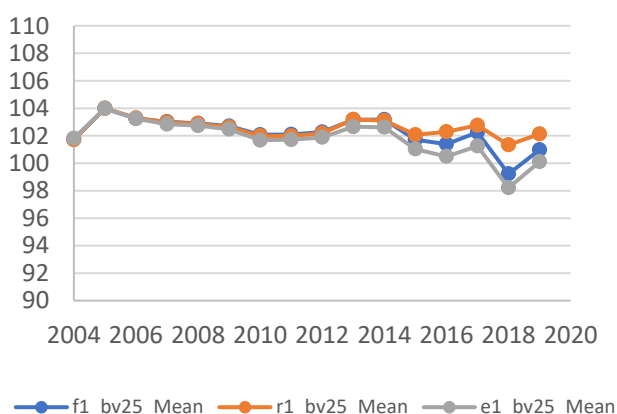


f1_bv24_StdDev r1_bv24_StdDev e1_bv24_StdDev

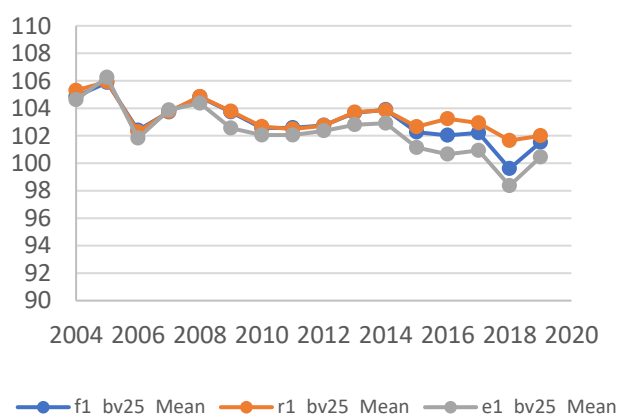
bv25

	Non genotyped females with records							Genotyped females with records						
	N	f1	r1	e1	f1	r1	e1	N	f1	r1	e1	f1	r1	e1
2004	5136	101.7	101.7	101.8	6.8	6.7	6.7	16	104.9	105.3	104.6	7.3	7.1	5.1
2005	6883	104.0	104.0	104.0	6.8	6.8	6.8	18	105.9	105.9	106.3	8.1	7.8	5.1
2006	7496	103.3	103.3	103.2	7.1	7.1	7.1	32	102.4	102.3	101.8	8.4	8.3	7.4
2007	7781	103.0	103.0	102.8	6.6	6.5	6.5	54	103.7	103.8	103.9	8.1	7.9	6.4
2008	8143	102.9	102.9	102.7	6.6	6.6	6.5	66	104.8	104.8	104.4	8.8	8.6	6.9
2009	8804	102.7	102.6	102.5	6.7	6.7	6.7	100	103.7	103.8	102.6	8.9	8.5	6.9
2010	7304	102.1	102.0	101.7	6.2	6.2	6.1	1171	102.6	102.7	102.0	8.4	8.2	6.0
2011	6823	102.1	102.0	101.7	6.5	6.5	6.5	1922	102.6	102.5	102.1	9.3	9.1	6.8
2012	6611	102.3	102.2	101.9	7.2	7.2	7.1	1908	102.8	102.7	102.4	9.9	9.6	7.6
2013	5833	103.2	103.2	102.7	7.5	7.4	7.4	1325	103.7	103.7	102.8	10.1	9.8	7.9
2014	5699	103.2	103.1	102.6	7.2	7.2	7.1	1579	103.9	103.9	102.9	9.3	9.0	6.9
2015	5212	101.7	102.1	101.0	6.8	6.6	6.7	1603	102.3	102.7	101.1	9.0	8.7	6.8
2016	4734	101.4	102.3	100.5	6.0	5.4	5.9	1724	102.0	103.2	100.7	7.9	7.5	5.5
2017	4076	102.3	102.8	101.2	7.0	5.2	7.0	2064	102.2	102.9	100.9	9.3	7.7	7.1
2018	3445	99.2	101.3	98.2	6.6	5.5	6.6	2087	99.6	101.7	98.4	8.8	7.7	6.5
2019	283	101.0	102.1	100.1	6.6	5.3	6.5	226	101.5	102.0	100.5	8.4	7.6	6.0

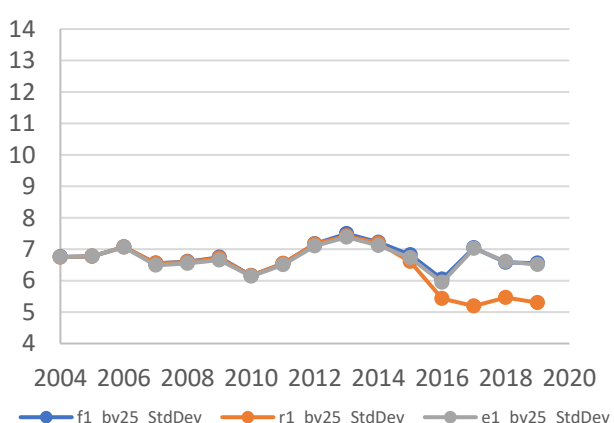
Non genotyped females with records



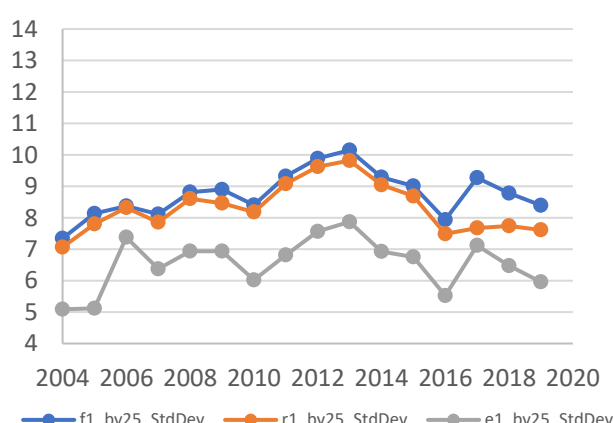
Genotyped females with records



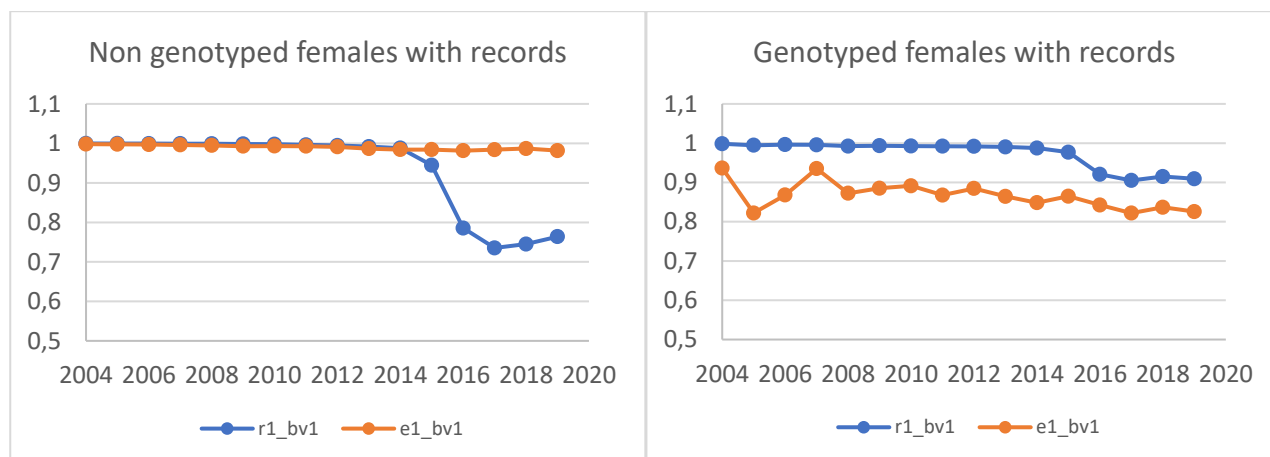
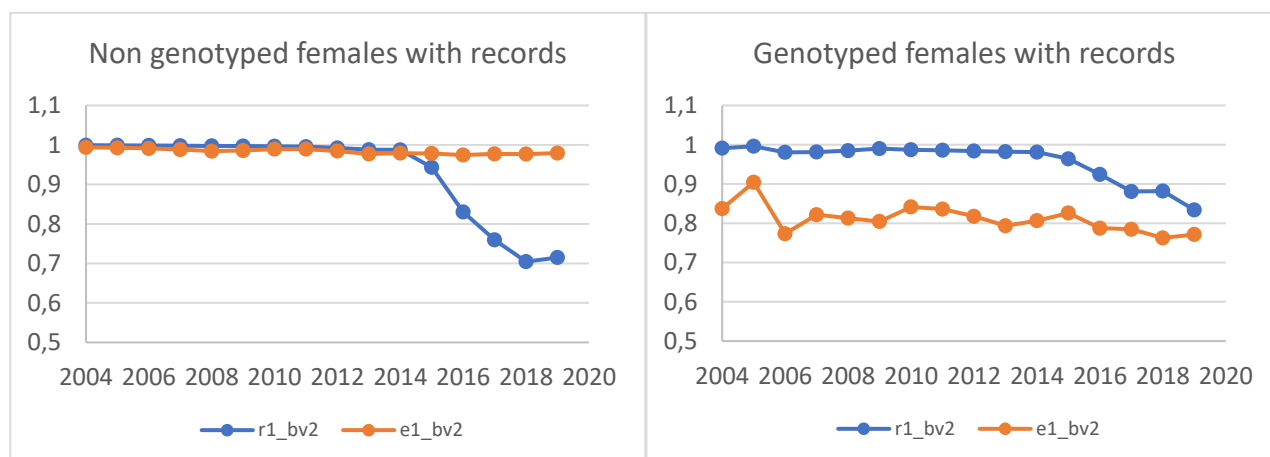
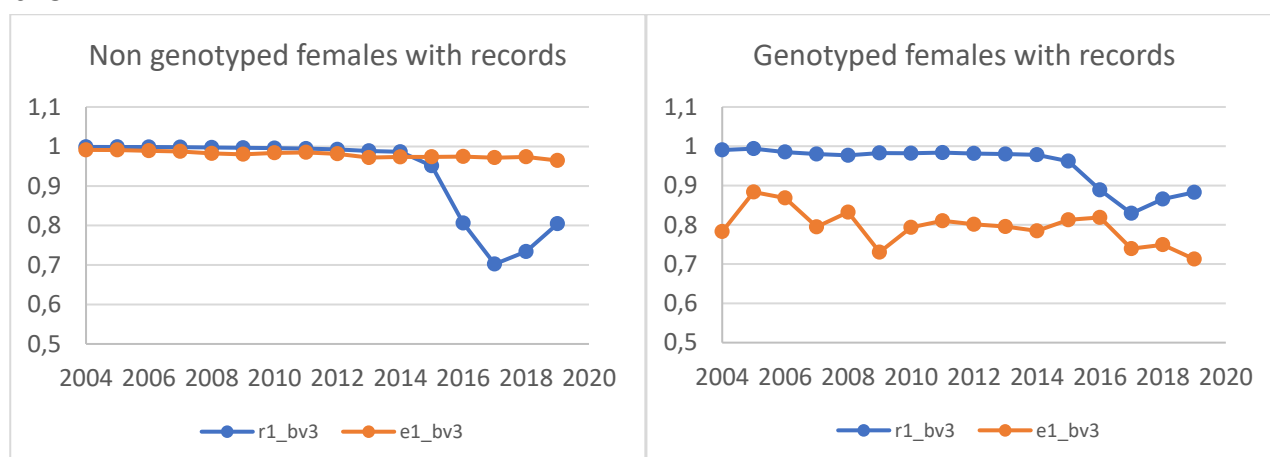
Non genotyped females with records



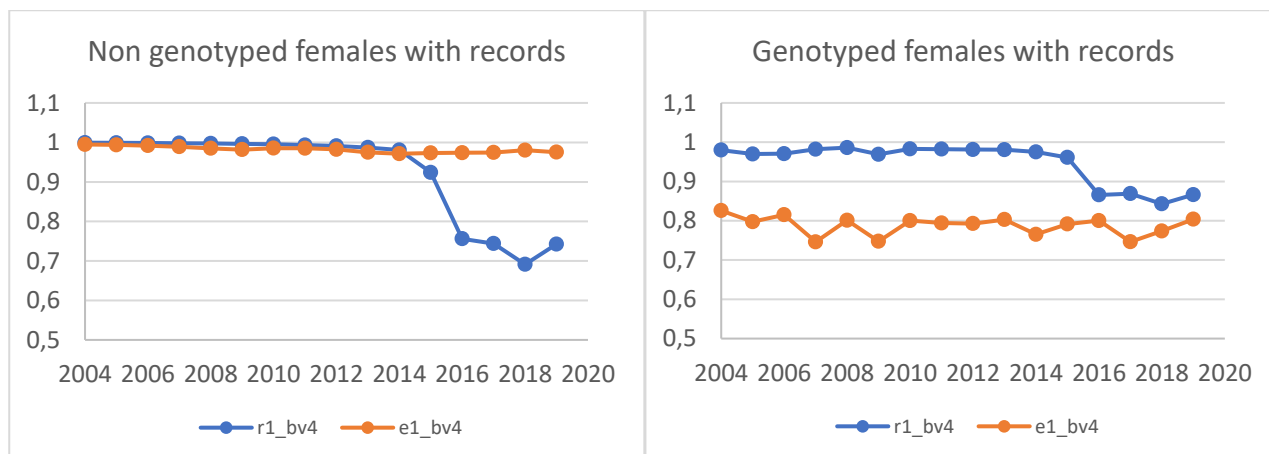
Genotyped females with records



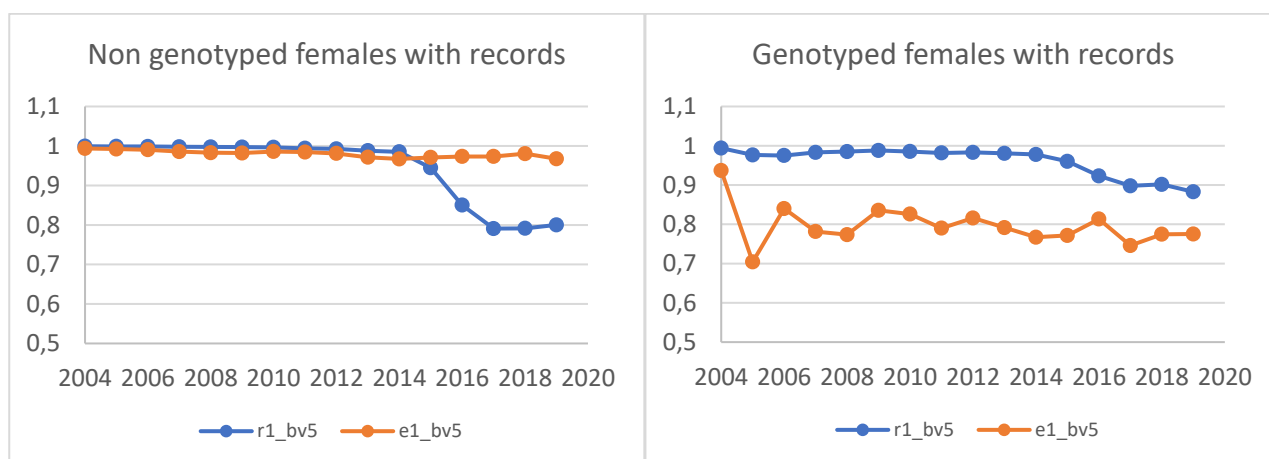
Correlations

bv1***bv2******bv3***

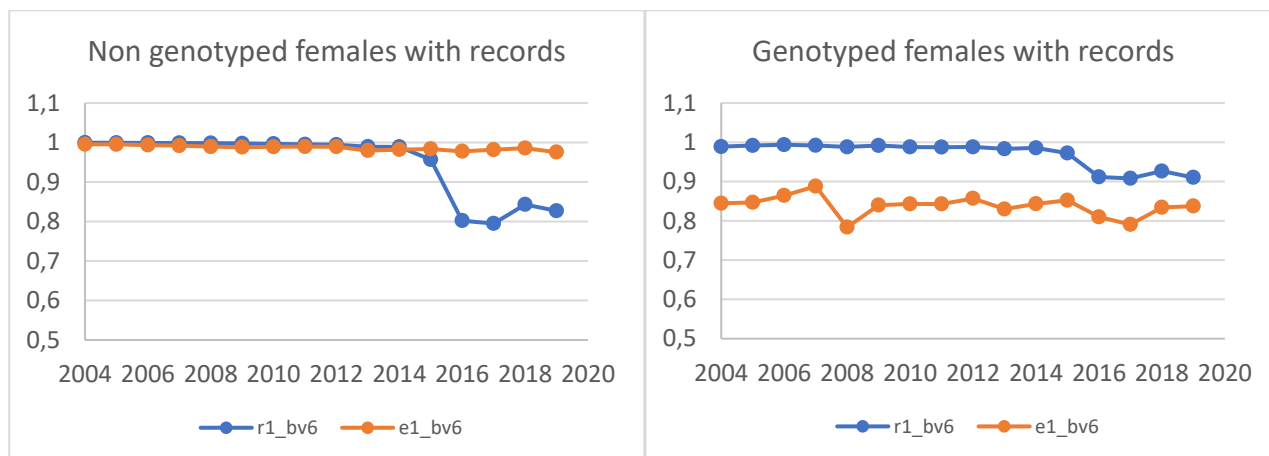
bv4



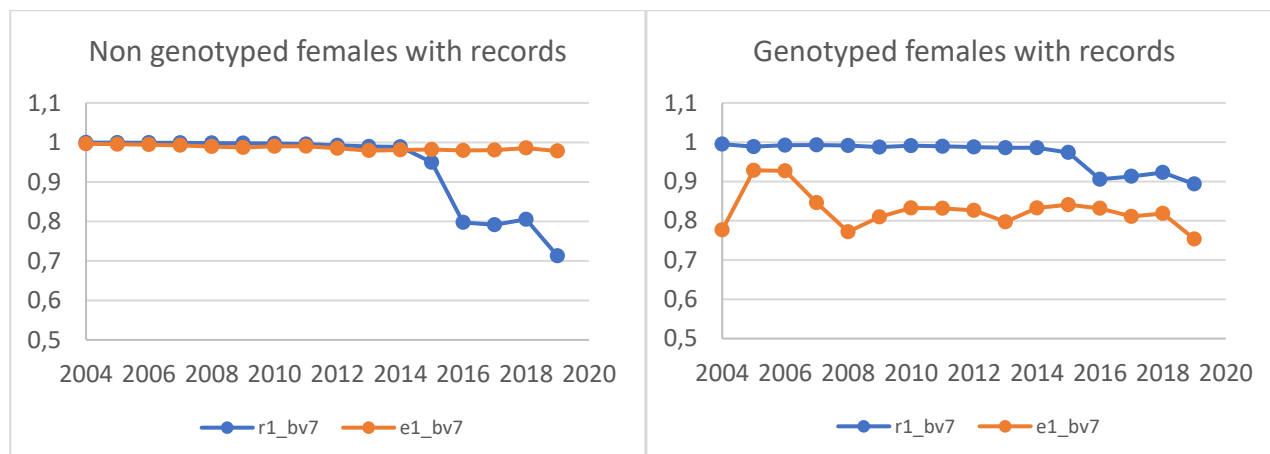
bv5



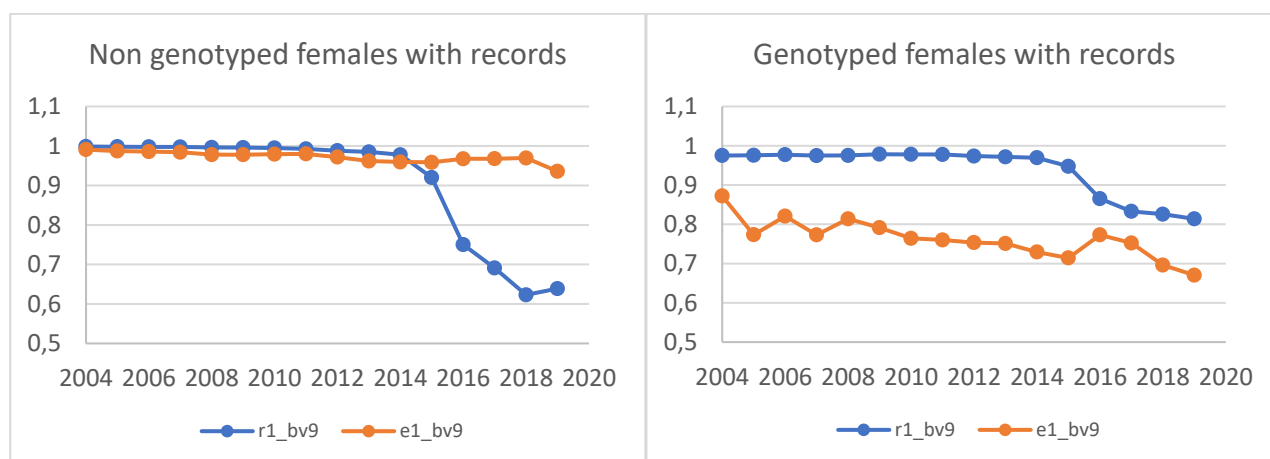
bv6



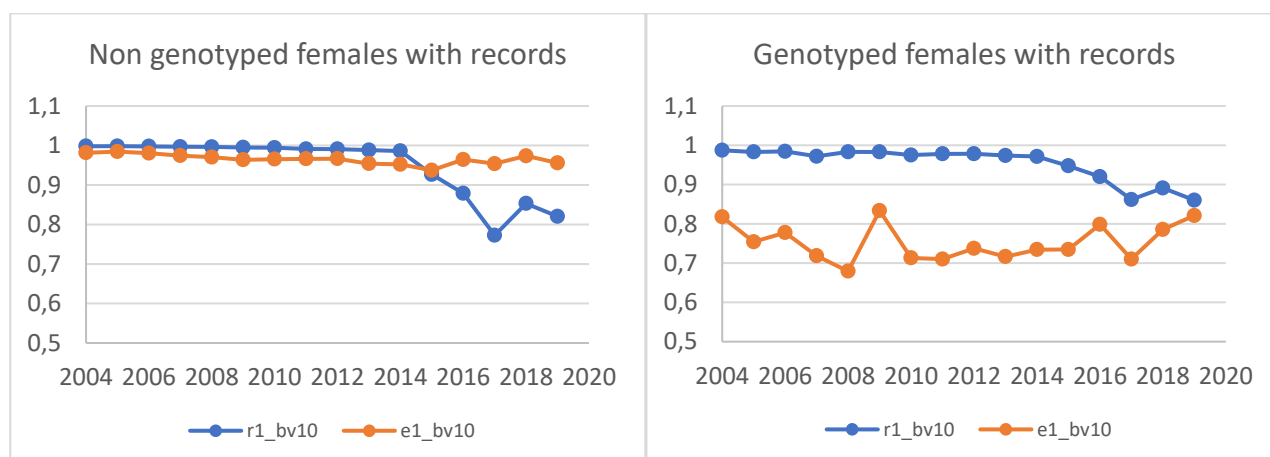
bv7



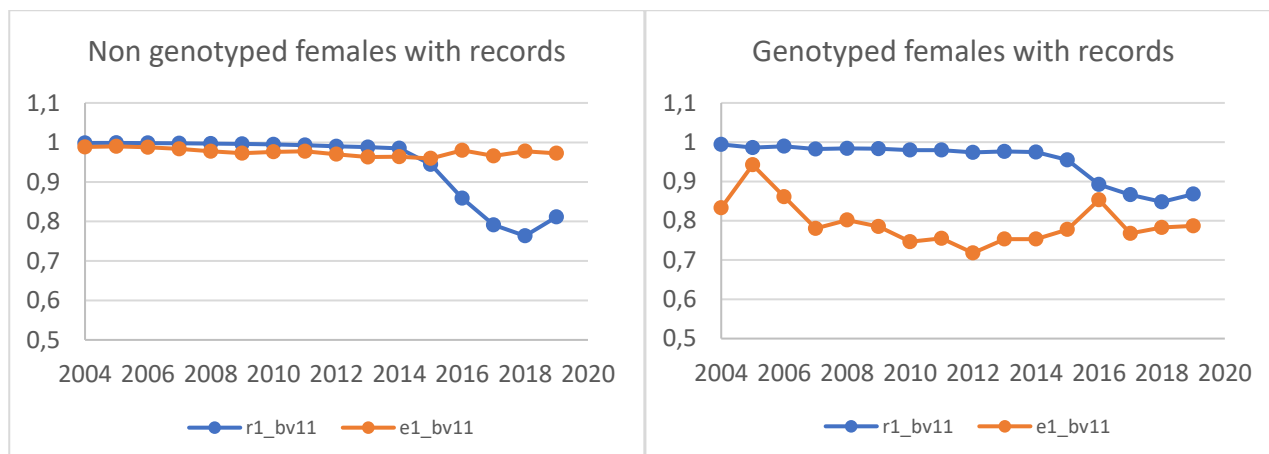
bv9



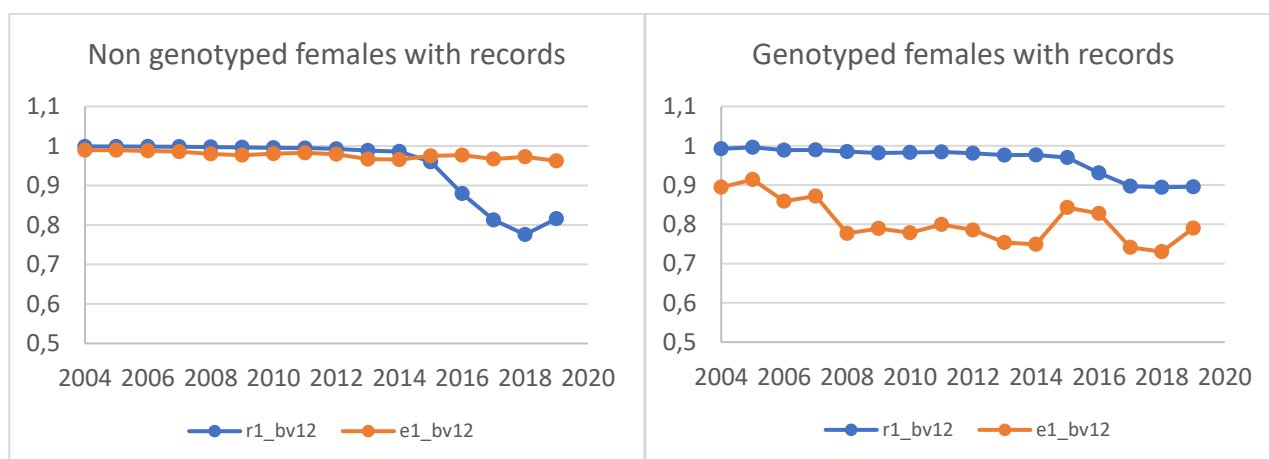
bv10



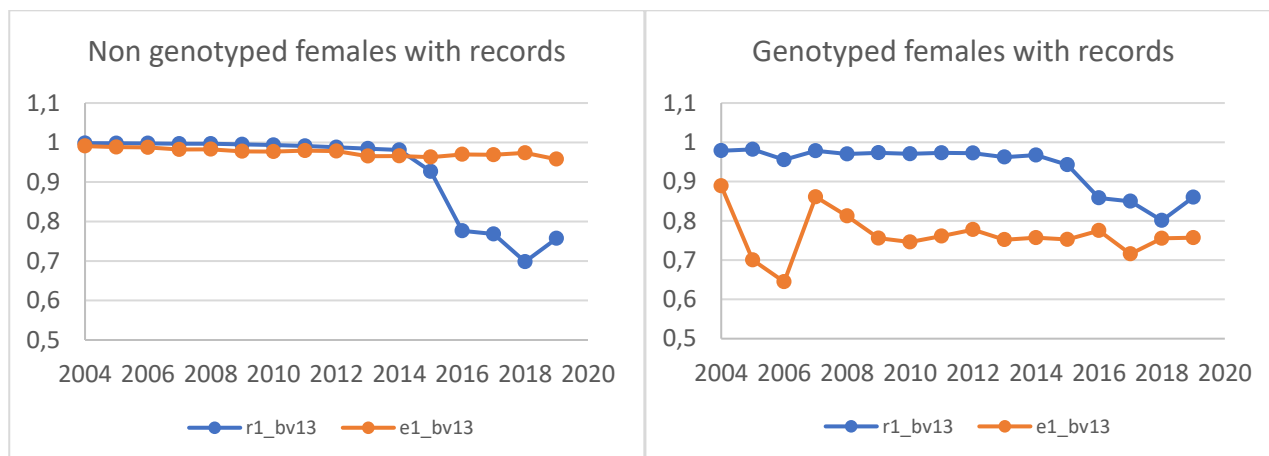
bv11



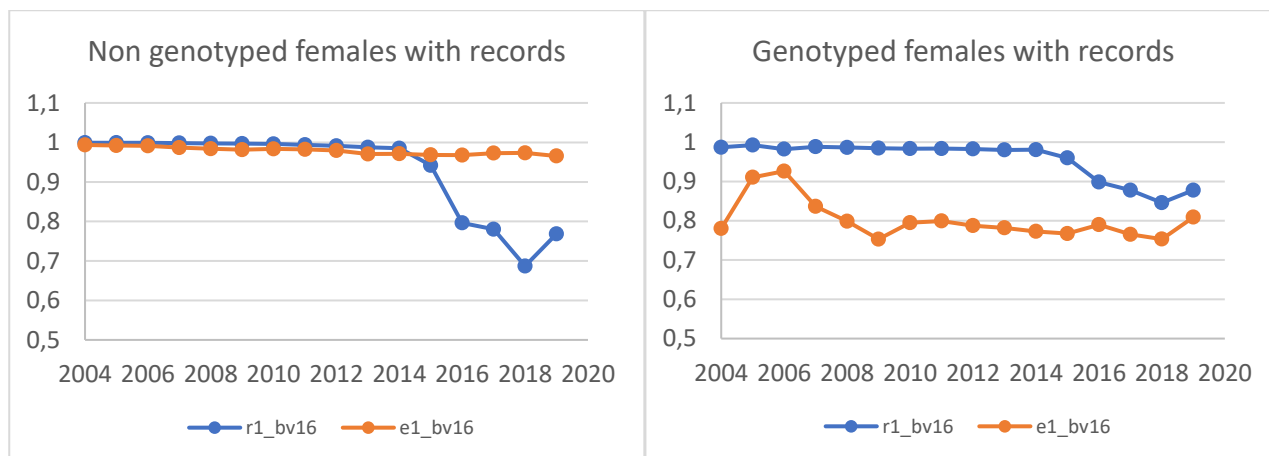
bv12



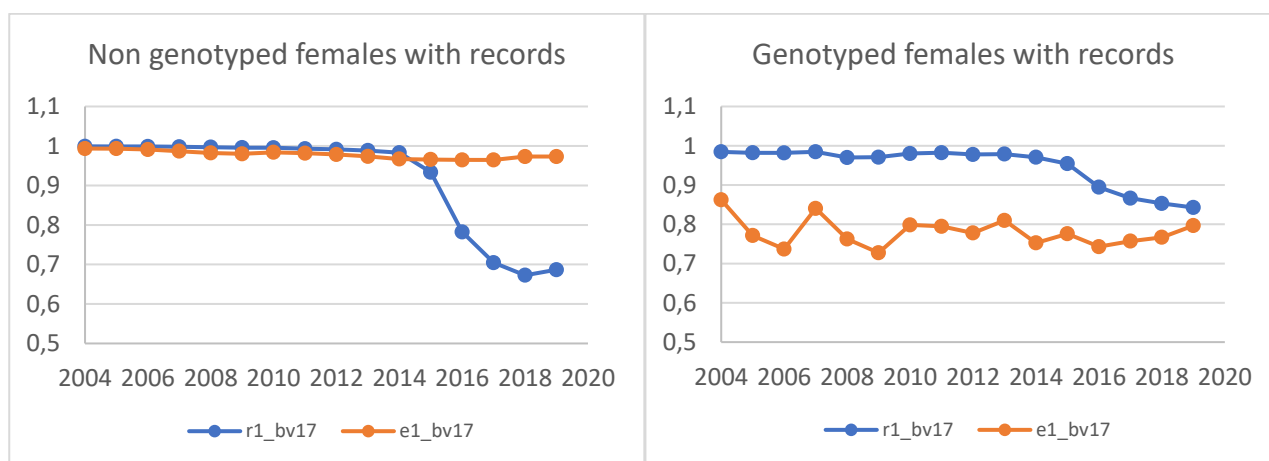
bv13



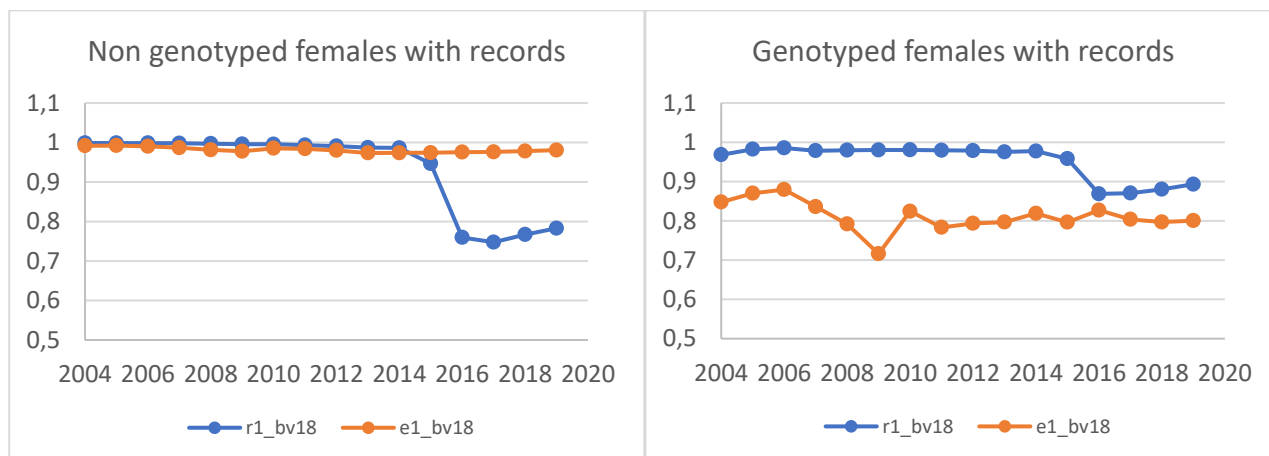
bv16

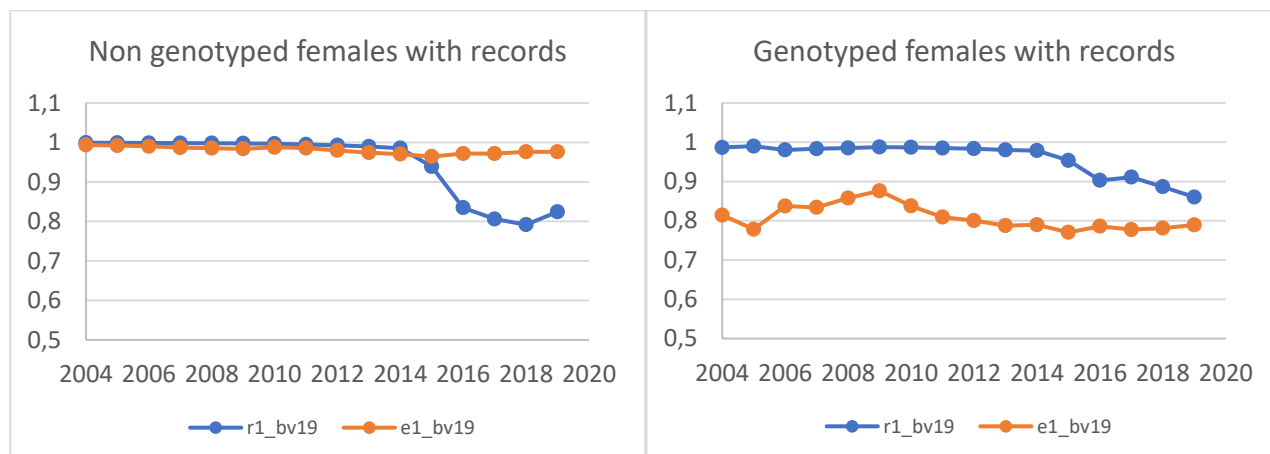
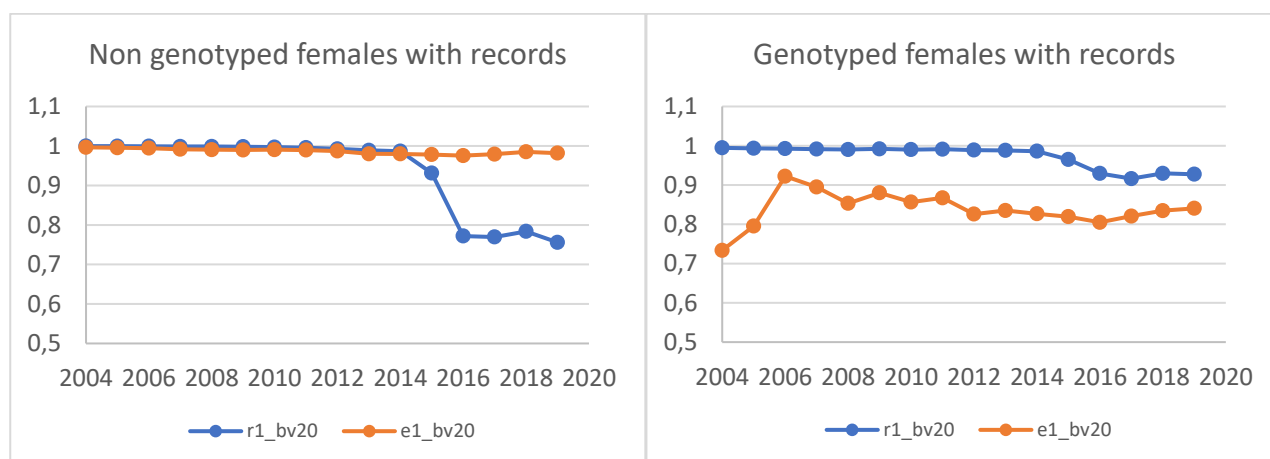
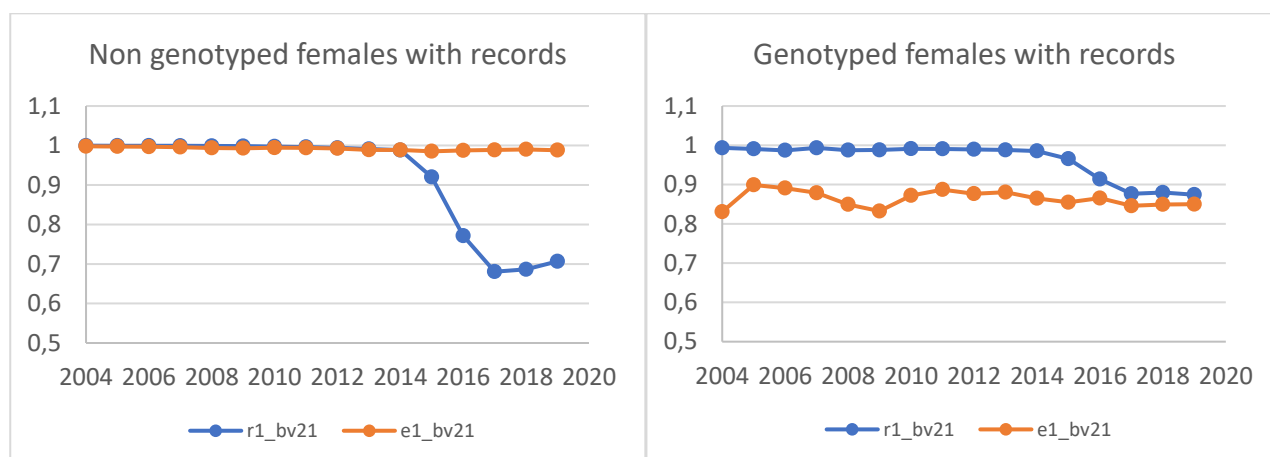


bv17

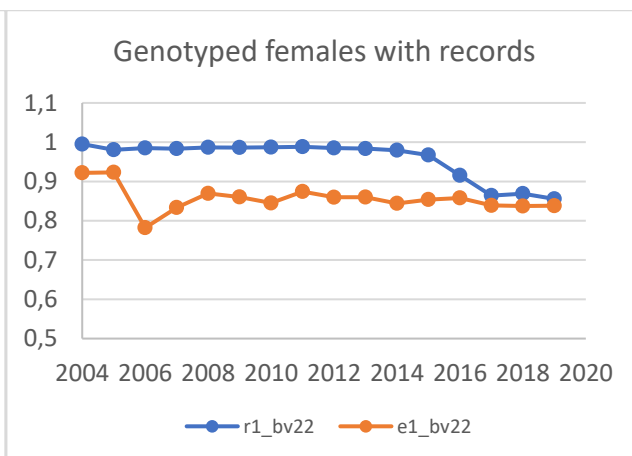
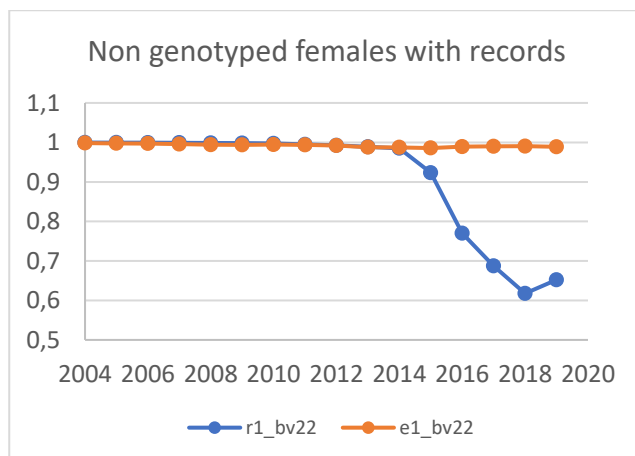


bv18

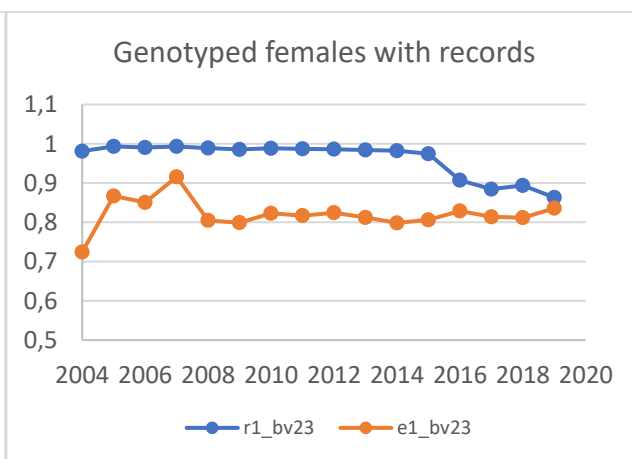
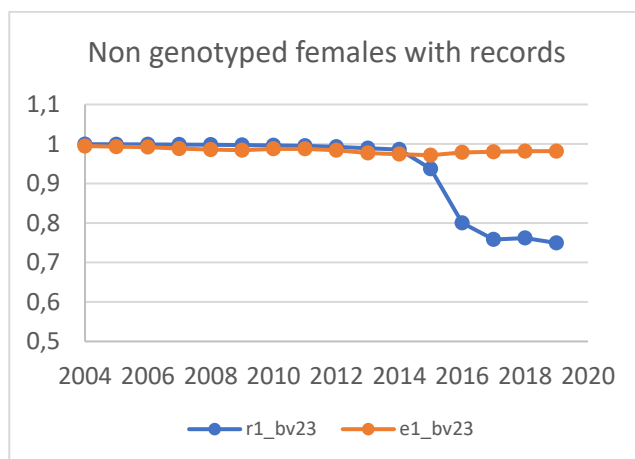


bv19**bv20****bv21**

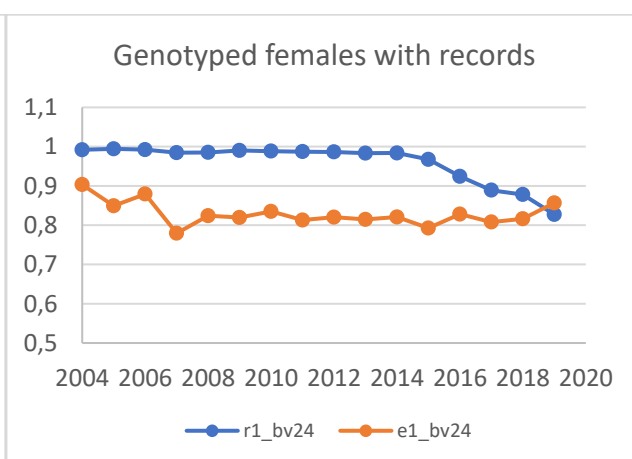
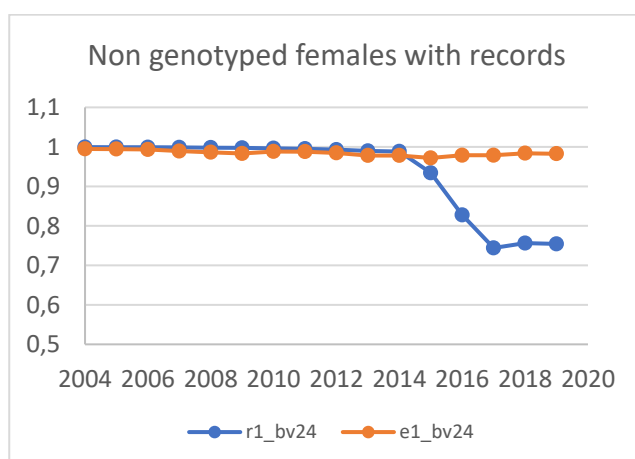
bv22

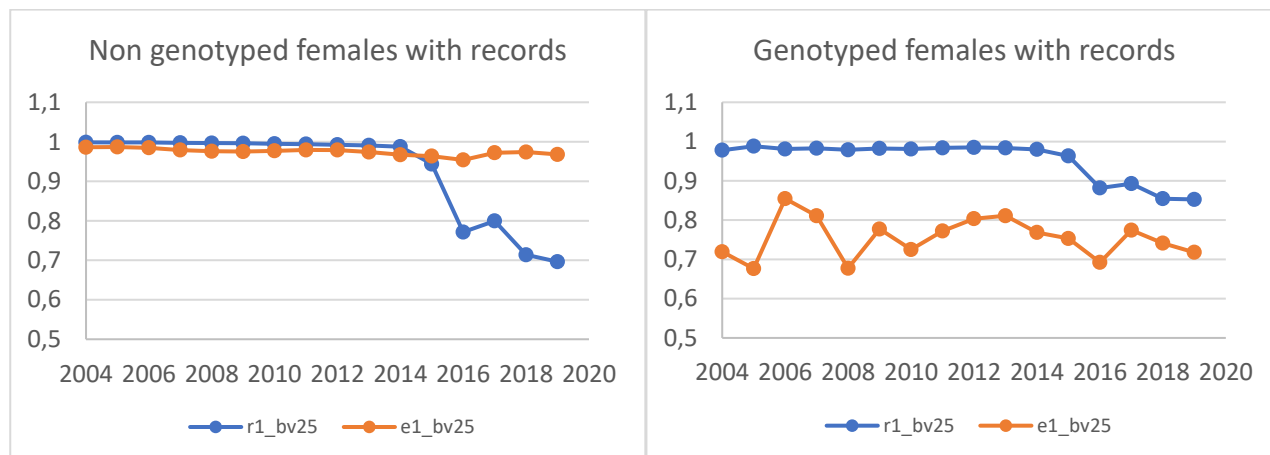


bv23



bv24



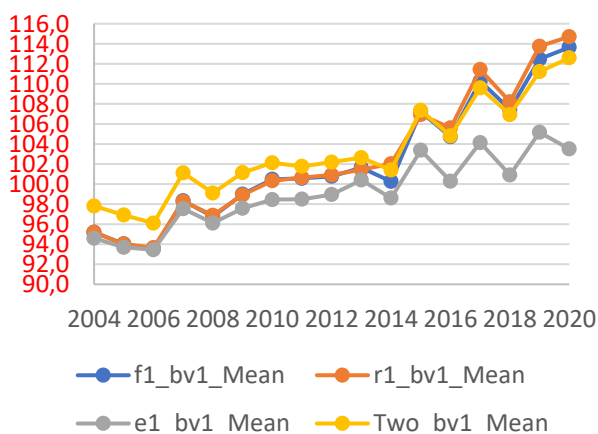
bv25**Bulls****Trend (mean and SD) and correlations**

Mælkeafgiftsfonden

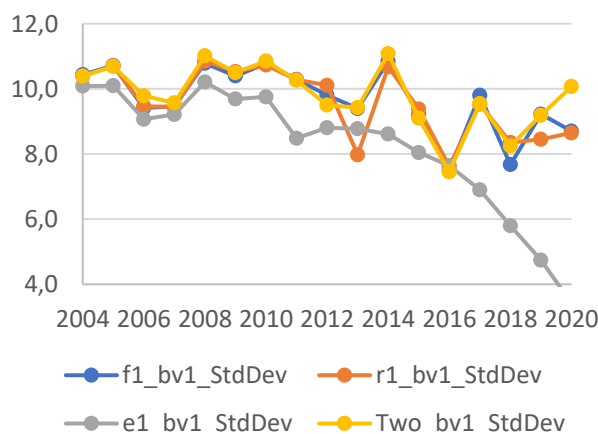
bv1

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	95.2	95.2	94.6	97.8	10.4	10.4	10.1	10.4	1.00	0.99	0.99
2005	45	94.0	94.0	93.7	96.9	10.7	10.7	10.1	10.7	1.00	0.99	0.99
2006	49	93.5	93.6	93.4	96.1	9.4	9.5	9.1	9.8	1.00	0.99	0.99
2007	55	98.3	98.3	97.5	101.1	9.5	9.4	9.2	9.6	1.00	0.99	0.99
2008	47	96.8	96.9	96.1	99.1	10.8	10.9	10.2	11.0	1.00	0.98	1.00
2009	58	99.0	98.9	97.6	101.1	10.4	10.5	9.7	10.5	1.00	0.94	0.99
2010	73	100.5	100.3	98.4	102.1	10.8	10.7	9.8	10.9	0.99	0.94	0.99
2011	75	100.6	100.6	98.5	101.8	10.3	10.3	8.5	10.3	0.99	0.89	0.99
2012	58	100.8	100.9	99.0	102.2	9.8	10.1	8.8	9.5	1.00	0.97	0.98
2013	67	101.6	101.4	100.4	102.6	9.4	8.0	8.8	9.4	0.92	0.90	0.99
2014	64	100.3	102.0	98.6	101.4	10.8	10.7	8.6	11.1	0.92	0.88	0.98
2015	52	107.2	106.9	103.4	107.4	9.2	9.4	8.0	9.1	0.89	0.88	0.99
2016	32	104.7	105.6	100.3	104.8	7.5	7.6	7.6	7.5	0.82	0.85	0.97
2017	38	110.3	111.4	104.1	109.6	9.8	9.5	6.9	9.5	0.92	0.71	0.98
2018	24	107.4	108.2	100.9	106.9	7.7	8.4	5.8	8.2	0.95	0.60	0.98
2019	51	112.5	113.7	105.2	111.2	9.2	8.4	4.7	9.2	0.94	0.66	0.98
2020	15	113.6	114.7	103.5	112.6	8.7	8.6	3.4	10.1	0.96	0.45	0.99

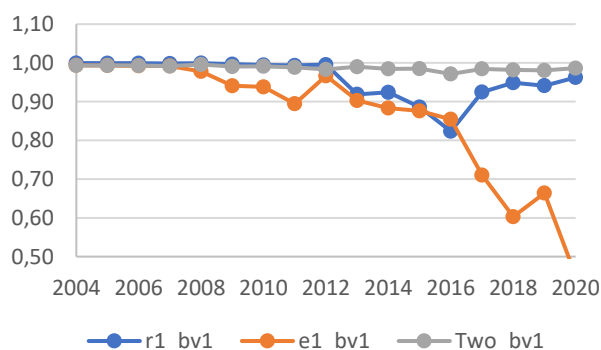
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

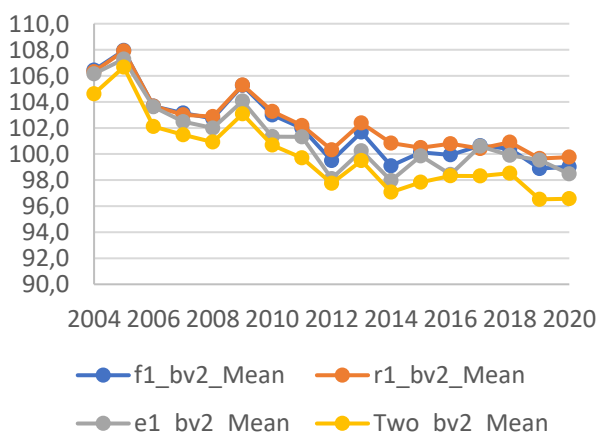


Mælkeafgiftsfonden

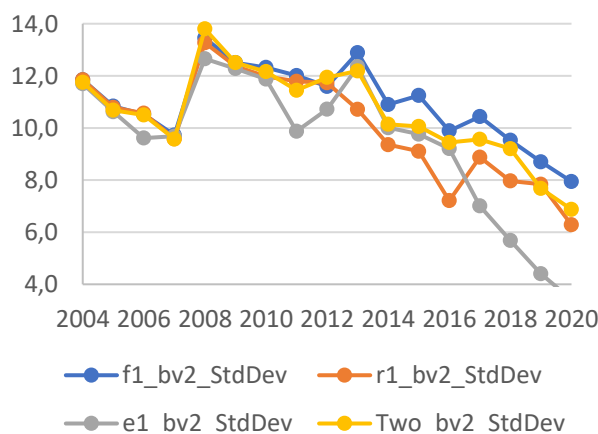
bv2

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	106.4	106.3	106.2	104.6	11.9	11.9	11.7	11.8	1.00	0.99	0.99
2005	45	107.9	107.9	107.3	106.7	10.8	10.8	10.6	10.7	1.00	0.98	0.99
2006	49	103.7	103.7	103.6	102.1	10.5	10.6	9.6	10.5	1.00	0.97	0.99
2007	55	103.1	103.0	102.5	101.5	9.7	9.6	9.7	9.6	0.99	0.98	0.99
2008	47	102.7	102.9	102.0	100.9	13.5	13.3	12.7	13.8	0.99	0.98	0.99
2009	58	105.3	105.3	104.1	103.1	12.5	12.4	12.3	12.5	0.99	0.98	0.99
2010	73	103.0	103.3	101.3	100.7	12.3	12.0	11.9	12.2	0.99	0.94	0.99
2011	75	102.0	102.2	101.3	99.7	12.0	11.8	9.9	11.4	0.99	0.91	0.98
2012	58	99.5	100.3	98.1	97.7	11.6	11.7	10.7	11.9	0.99	0.94	0.99
2013	67	101.7	102.4	100.2	99.5	12.9	10.7	12.4	12.2	0.88	0.95	0.99
2014	64	99.1	100.8	98.0	97.1	10.9	9.4	10.0	10.1	0.91	0.83	0.98
2015	52	100.1	100.5	99.9	97.8	11.2	9.1	9.8	10.1	0.86	0.93	0.99
2016	32	99.9	100.8	98.4	98.3	9.9	7.2	9.2	9.4	0.77	0.85	0.98
2017	38	100.6	100.4	100.6	98.3	10.4	8.9	7.0	9.6	0.90	0.73	0.98
2018	24	100.4	100.9	99.9	98.5	9.5	8.0	5.7	9.2	0.95	0.66	0.98
2019	51	98.9	99.7	99.5	96.5	8.7	7.8	4.4	7.7	0.89	0.47	0.97
2020	15	99.0	99.8	98.5	96.6	7.9	6.3	3.4	6.9	0.93	0.21	0.96

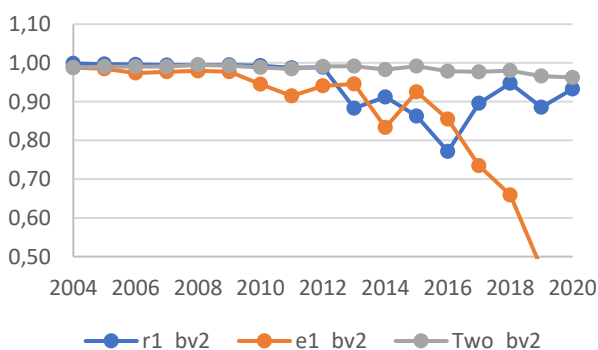
Domestic AI bulls



Domestic AI bulls



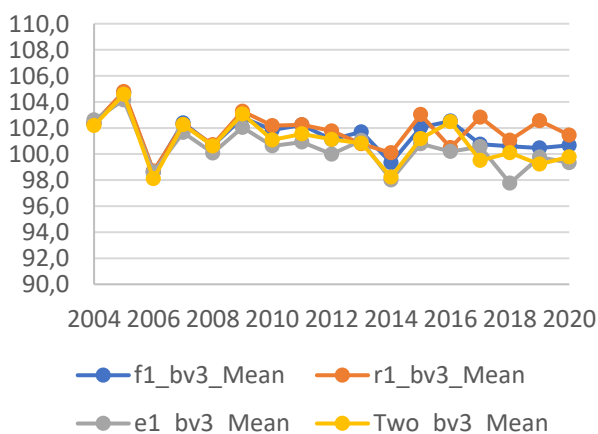
Domestic AI bulls



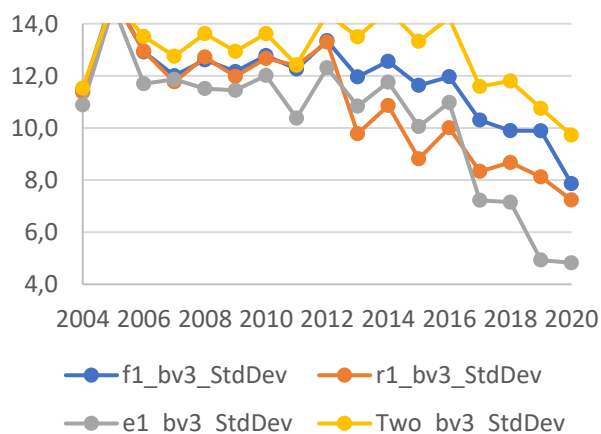
bv3

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	102.4	102.3	102.6	102.2	11.4	11.4	10.9	11.5	1.00	0.98	0.98
2005	45	104.7	104.8	104.1	104.6	15.0	15.0	14.7	14.9	1.00	0.99	0.99
2006	49	98.6	98.7	98.6	98.1	12.9	12.9	11.7	13.5	1.00	0.97	0.99
2007	55	102.4	102.3	101.7	102.3	12.0	11.8	11.9	12.8	1.00	0.98	0.99
2008	47	100.6	100.7	100.1	100.6	12.6	12.7	11.5	13.6	0.99	0.98	0.99
2009	58	102.8	103.3	102.0	103.1	12.2	12.0	11.4	12.9	0.99	0.96	0.99
2010	73	101.8	102.2	100.6	101.1	12.8	12.7	12.0	13.6	0.99	0.94	0.99
2011	75	102.2	102.2	100.9	101.5	12.3	12.4	10.4	12.4	0.99	0.90	0.99
2012	58	101.1	101.8	100.0	101.1	13.3	13.3	12.3	14.4	0.99	0.92	0.99
2013	67	101.7	100.8	101.0	100.8	12.0	9.8	10.8	13.5	0.84	0.94	0.98
2014	64	99.3	100.1	98.0	98.2	12.6	10.9	11.8	14.5	0.89	0.89	0.99
2015	52	102.0	103.0	100.8	101.2	11.6	8.8	10.1	13.3	0.77	0.90	0.99
2016	32	102.5	100.5	100.2	102.5	12.0	10.0	11.0	14.2	0.84	0.91	0.99
2017	38	100.7	102.8	100.6	99.5	10.3	8.3	7.2	11.6	0.85	0.77	0.97
2018	24	100.6	101.1	97.8	100.1	9.9	8.7	7.2	11.8	0.87	0.61	0.97
2019	51	100.5	102.6	99.8	99.2	9.9	8.1	4.9	10.8	0.89	0.63	0.96
2020	15	100.7	101.5	99.3	99.8	7.9	7.2	4.8	9.7	0.82	0.17	0.95

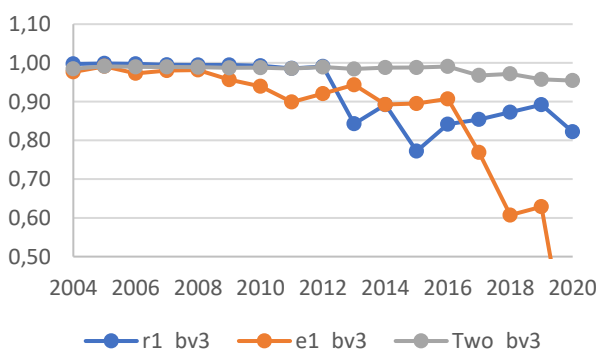
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

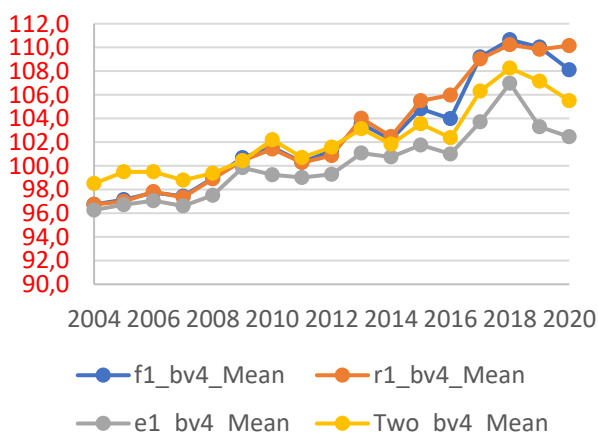


Mælkeafgiftsfonden

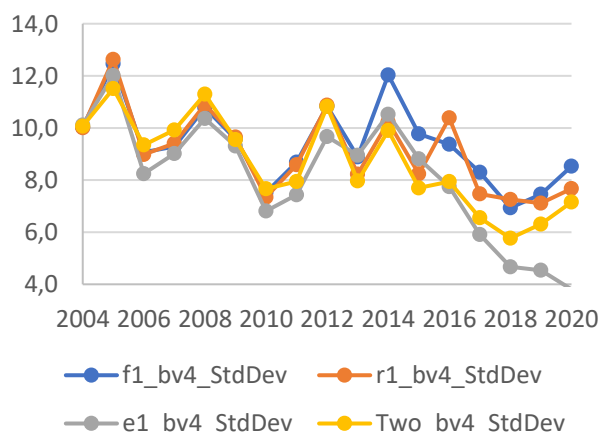
bv4

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	96.7	96.7	96.3	98.5	10.0	10.0	10.1	10.1	1.00	0.99	0.98
2005	45	97.1	97.0	96.7	99.5	12.5	12.6	12.0	11.5	1.00	0.98	0.99
2006	49	97.7	97.8	97.1	99.5	9.1	9.0	8.2	9.3	1.00	0.97	0.98
2007	55	97.4	97.3	96.6	98.8	9.3	9.4	9.0	9.9	1.00	0.98	0.98
2008	47	99.0	98.9	97.5	99.4	10.8	10.9	10.4	11.3	1.00	0.98	0.99
2009	58	100.7	100.4	99.8	100.4	9.6	9.7	9.3	9.6	0.99	0.97	0.98
2010	73	101.6	101.4	99.2	102.2	7.5	7.3	6.8	7.7	0.98	0.91	0.96
2011	75	100.3	100.3	99.0	100.7	8.7	8.6	7.4	7.9	0.99	0.87	0.96
2012	58	101.3	100.9	99.3	101.6	10.8	10.9	9.7	10.8	0.99	0.94	0.98
2013	67	103.5	104.0	101.1	103.1	8.9	8.2	9.0	8.0	0.75	0.89	0.98
2014	64	102.2	102.5	100.7	101.8	12.0	10.2	10.5	9.9	0.88	0.90	0.99
2015	52	104.8	105.5	101.8	103.6	9.8	8.2	8.8	7.7	0.84	0.89	0.98
2016	32	104.0	106.0	101.0	102.4	9.4	10.4	7.7	7.9	0.85	0.92	0.99
2017	38	109.2	109.0	103.7	106.3	8.3	7.5	5.9	6.6	0.93	0.86	0.97
2018	24	110.6	110.2	107.0	108.2	6.9	7.3	4.7	5.8	0.89	0.39	0.96
2019	51	110.0	109.8	103.3	107.1	7.5	7.1	4.5	6.3	0.88	0.54	0.97
2020	15	108.1	110.1	102.5	105.5	8.5	7.7	3.8	7.2	0.94	0.62	0.98

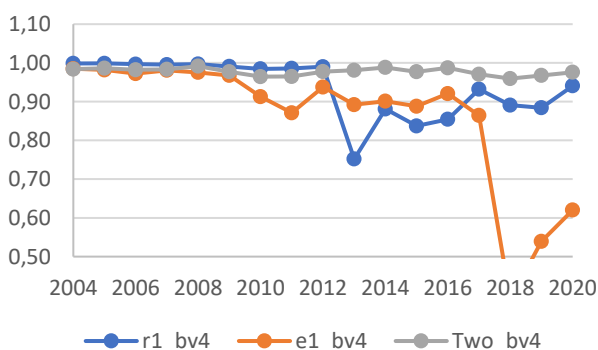
Domestic AI bulls



Domestic AI bulls



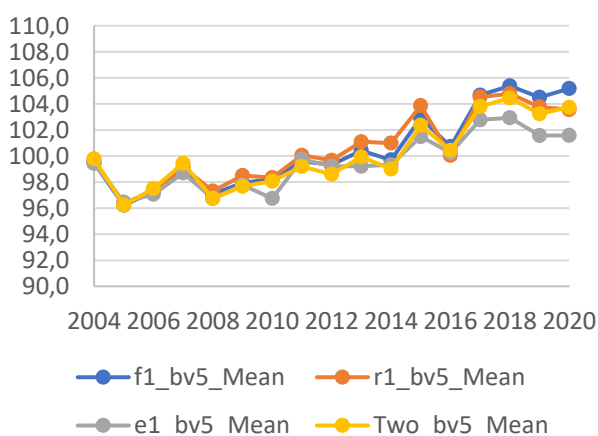
Domestic AI bulls



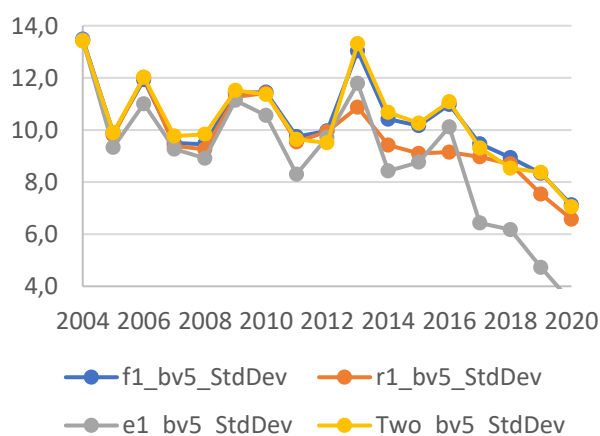
bv5

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	99.5	99.7	99.4	99.8	13.5	13.4	13.5	13.4	1.00	0.99	1.00
2005	45	96.2	96.3	96.5	96.2	9.9	9.8	9.3	9.9	1.00	0.98	0.99
2006	49	97.3	97.3	97.1	97.5	11.9	12.0	11.0	12.0	1.00	0.98	0.99
2007	55	98.8	99.1	98.7	99.4	9.5	9.4	9.3	9.8	1.00	0.98	0.99
2008	47	97.1	97.3	96.7	96.7	9.5	9.3	8.9	9.8	0.99	0.92	0.98
2009	58	97.9	98.5	97.8	97.7	11.4	11.3	11.1	11.5	0.99	0.98	0.99
2010	73	98.2	98.3	96.7	98.1	11.4	11.4	10.6	11.4	0.99	0.93	0.99
2011	75	99.6	100.1	99.7	99.2	9.7	9.5	8.3	9.6	0.99	0.86	0.98
2012	58	99.3	99.7	99.2	98.6	10.0	9.9	9.7	9.5	0.99	0.90	0.98
2013	67	100.4	101.1	99.2	99.9	13.0	10.9	11.8	13.3	0.91	0.93	0.99
2014	64	99.7	101.0	99.3	99.0	10.4	9.4	8.4	10.7	0.90	0.86	0.99
2015	52	102.9	103.9	101.5	102.4	10.2	9.1	8.8	10.3	0.91	0.89	0.98
2016	32	100.7	100.1	100.2	100.4	11.0	9.1	10.1	11.1	0.82	0.94	0.99
2017	38	104.7	104.5	102.8	103.8	9.5	9.0	6.4	9.3	0.90	0.76	0.98
2018	24	105.4	104.8	102.9	104.5	8.9	8.7	6.2	8.5	0.88	0.77	0.98
2019	51	104.5	103.8	101.6	103.2	8.3	7.5	4.7	8.4	0.91	0.53	0.98
2020	15	105.2	103.6	101.6	103.7	7.1	6.6	3.4	7.1	0.90	0.62	0.98

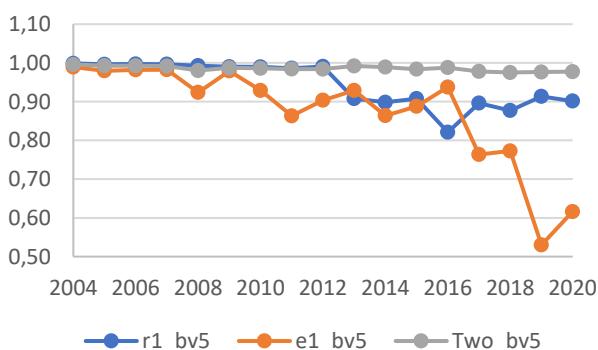
Domestic AI bulls



Domestic AI bulls



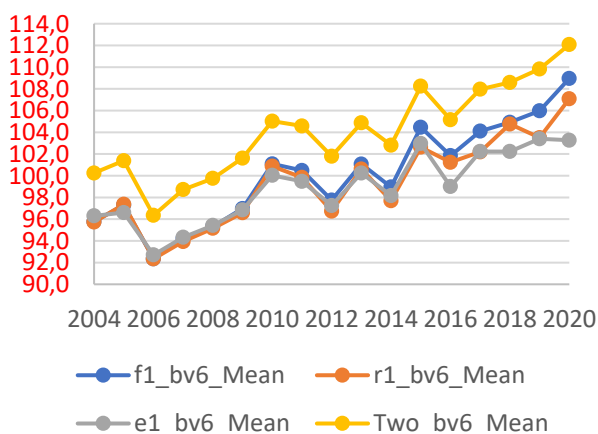
Domestic AI bulls



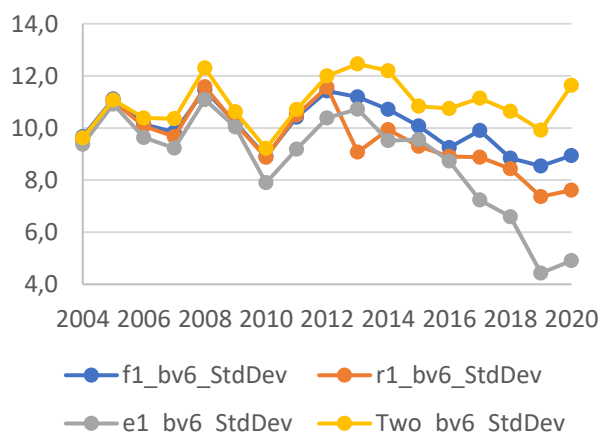
bv6 maybe problem here

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	95.8	95.7	96.3	100.2	9.7	9.5	9.4	9.6	1.00	0.99	0.99
2005	45	97.3	97.4	96.6	101.4	11.1	11.0	10.9	11.1	1.00	0.97	0.99
2006	49	92.3	92.3	92.7	96.3	10.1	10.1	9.6	10.4	1.00	0.99	0.99
2007	55	94.2	93.9	94.3	98.7	9.8	9.7	9.2	10.4	1.00	0.98	0.99
2008	47	95.3	95.2	95.4	99.8	11.5	11.6	11.1	12.3	1.00	0.99	0.99
2009	58	97.0	96.6	96.9	101.6	10.2	10.2	10.0	10.6	1.00	0.97	0.99
2010	73	101.1	100.9	100.0	105.0	8.9	8.9	7.9	9.2	0.99	0.93	0.98
2011	75	100.5	99.8	99.5	104.6	10.4	10.5	9.2	10.7	0.99	0.89	0.99
2012	58	97.8	96.7	97.3	101.8	11.4	11.6	10.4	12.0	0.99	0.97	0.99
2013	67	101.1	100.6	100.2	104.9	11.2	9.1	10.7	12.5	0.91	0.92	0.99
2014	64	99.0	97.7	98.2	102.8	10.7	9.9	9.5	12.2	0.92	0.88	0.99
2015	52	104.5	102.6	103.0	108.2	10.1	9.3	9.6	10.8	0.93	0.92	0.99
2016	32	101.8	101.2	99.0	105.2	9.2	8.9	8.7	10.7	0.87	0.89	0.99
2017	38	104.1	102.2	102.2	108.0	9.9	8.9	7.2	11.1	0.94	0.82	0.99
2018	24	104.9	104.8	102.2	108.6	8.8	8.4	6.6	10.6	0.95	0.66	0.99
2019	51	106.0	103.5	103.4	109.8	8.5	7.4	4.4	9.9	0.95	0.66	0.98
2020	15	109.0	107.1	103.3	112.1	8.9	7.6	4.9	11.6	0.96	0.58	0.98

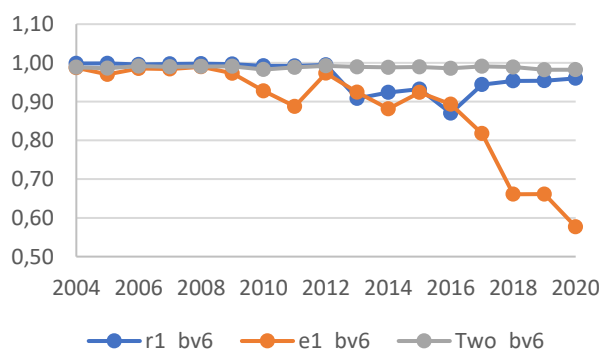
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

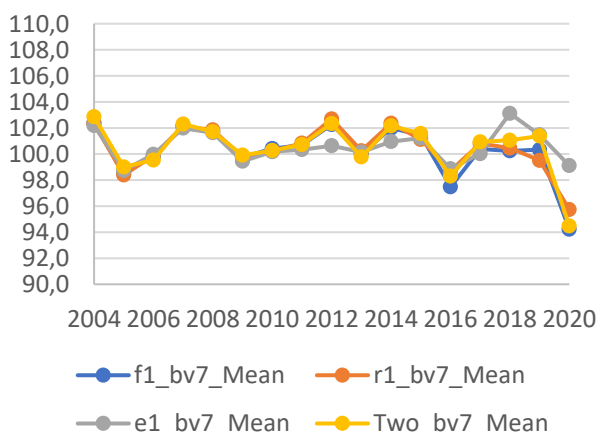


Mælkeafgiftsfonden

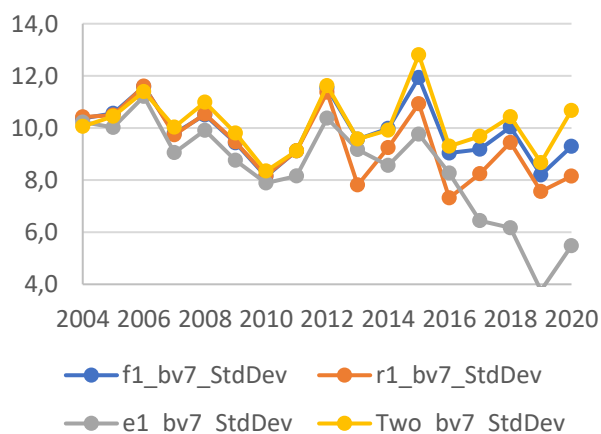
bv7

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	102.4	102.3	102.2	102.9	10.4	10.4	10.2	10.1	1.00	0.99	0.99
2005	45	98.5	98.4	98.7	99.0	10.6	10.5	10.0	10.4	1.00	0.99	0.99
2006	49	99.8	99.9	100.0	99.5	11.6	11.6	11.2	11.4	1.00	0.99	0.99
2007	55	102.1	102.1	102.0	102.3	9.8	9.7	9.1	10.0	1.00	0.98	0.99
2008	47	101.8	101.9	101.6	101.7	10.5	10.5	9.9	11.0	1.00	0.98	0.99
2009	58	99.7	99.8	99.4	99.9	9.4	9.5	8.8	9.8	1.00	0.97	0.99
2010	73	100.4	100.2	100.2	100.3	8.1	8.2	7.9	8.3	0.99	0.90	0.98
2011	75	100.7	100.8	100.3	100.7	9.1	9.1	8.2	9.1	0.99	0.89	0.98
2012	58	102.3	102.7	100.6	102.3	11.5	11.4	10.4	11.6	1.00	0.96	0.99
2013	67	100.0	100.2	100.1	99.8	9.6	7.8	9.2	9.6	0.88	0.93	0.99
2014	64	102.0	102.4	101.0	102.2	10.0	9.2	8.6	9.9	0.89	0.87	0.99
2015	52	101.5	101.1	101.2	101.6	11.9	10.9	9.8	12.8	0.96	0.92	0.99
2016	32	97.5	98.7	98.9	98.3	9.0	7.3	8.3	9.3	0.82	0.93	0.99
2017	38	100.4	100.8	100.0	100.9	9.2	8.2	6.4	9.7	0.91	0.64	0.98
2018	24	100.2	100.5	103.1	101.1	10.0	9.4	6.2	10.4	0.97	0.66	0.99
2019	51	100.3	99.5	101.5	101.4	8.2	7.6	3.8	8.7	0.94	0.32	0.98
2020	15	94.2	95.7	99.1	94.5	9.3	8.2	5.5	10.7	0.92	0.66	0.98

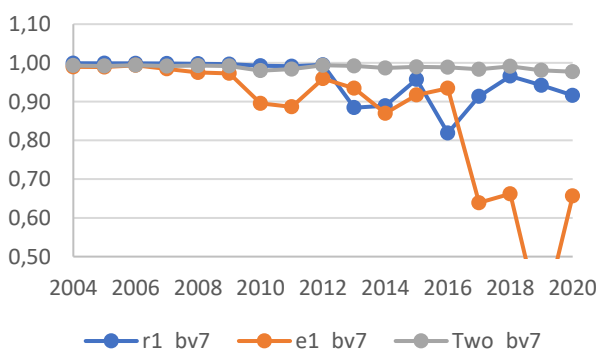
Domestic AI bulls



Domestic AI bulls



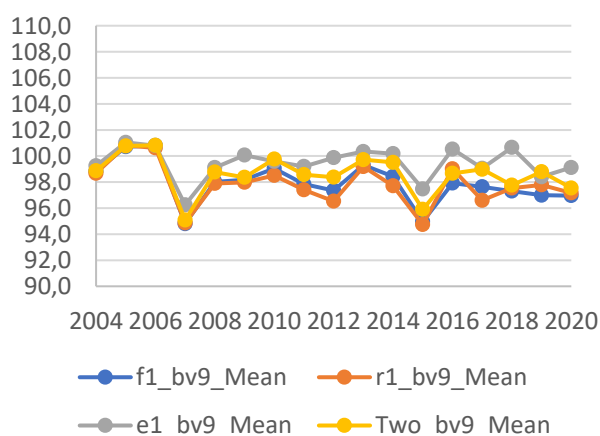
Domestic AI bulls



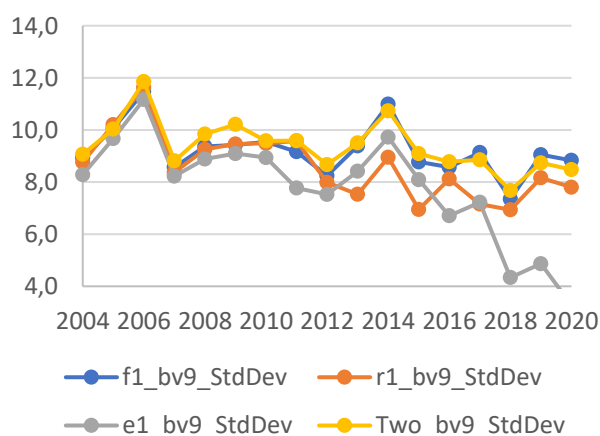
bv9

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	98.8	98.7	99.2	98.9	8.9	8.8	8.3	9.1	1.00	0.97	0.99
2005	45	100.7	100.8	101.0	100.8	10.1	10.2	9.7	10.0	1.00	0.98	0.99
2006	49	100.8	100.6	100.8	100.8	11.5	11.6	11.2	11.9	1.00	0.98	0.99
2007	55	94.8	94.9	96.2	95.1	8.6	8.4	8.2	8.8	0.99	0.95	0.99
2008	47	98.0	97.9	99.1	98.8	9.4	9.3	8.9	9.8	0.99	0.96	0.99
2009	58	98.2	98.0	100.1	98.4	9.4	9.5	9.1	10.2	0.98	0.96	0.99
2010	73	99.1	98.5	99.6	99.8	9.5	9.5	8.9	9.6	0.99	0.94	0.99
2011	75	97.8	97.4	99.2	98.6	9.2	9.6	7.8	9.6	0.98	0.90	0.99
2012	58	97.4	96.5	99.9	98.4	8.2	8.0	7.5	8.7	0.97	0.90	0.99
2013	67	99.3	99.2	100.3	99.7	9.4	7.5	8.4	9.5	0.83	0.88	0.99
2014	64	98.4	97.7	100.2	99.5	11.0	8.9	9.7	10.7	0.86	0.91	0.99
2015	52	95.0	94.7	97.5	95.9	8.8	6.9	8.1	9.1	0.71	0.85	0.98
2016	32	97.9	99.0	100.5	98.7	8.6	8.1	6.7	8.8	0.84	0.85	0.98
2017	38	97.6	96.6	99.1	99.0	9.1	7.2	7.2	8.9	0.80	0.69	0.97
2018	24	97.3	97.5	100.7	97.8	7.3	6.9	4.3	7.7	0.92	0.53	0.97
2019	51	97.0	97.8	98.4	98.8	9.1	8.2	4.9	8.7	0.85	0.58	0.97
2020	15	97.0	97.2	99.1	97.5	8.8	7.8	3.3	8.5	0.97	0.58	0.94

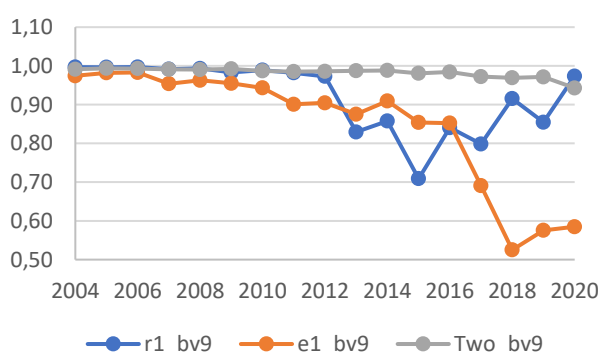
Domestic AI bulls



Domestic AI bulls



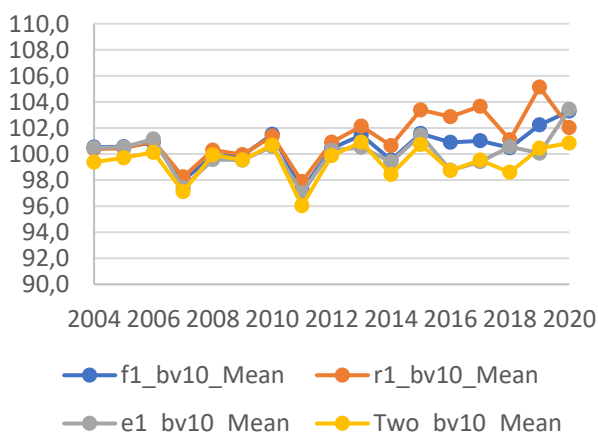
Domestic AI bulls



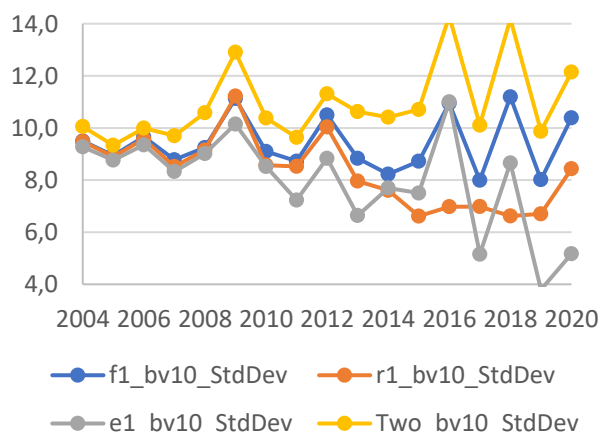
bv10

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	100.5	100.4	100.5	99.4	9.5	9.5	9.3	10.1	1.00	0.96	0.99
2005	45	100.6	100.4	100.5	99.7	8.9	8.9	8.8	9.3	0.99	0.95	0.99
2006	49	100.9	101.0	101.2	100.1	9.7	9.6	9.3	10.0	0.99	0.95	0.99
2007	55	98.0	98.2	97.4	97.1	8.8	8.5	8.3	9.7	0.99	0.93	0.98
2008	47	99.8	100.3	99.6	99.9	9.2	9.2	9.0	10.6	1.00	0.95	0.99
2009	58	99.9	100.0	99.5	99.5	11.1	11.2	10.1	12.9	0.99	0.95	0.99
2010	73	101.5	101.4	100.6	100.7	9.1	8.6	8.5	10.4	0.98	0.91	0.99
2011	75	97.3	97.9	97.0	96.0	8.7	8.5	7.2	9.6	0.99	0.87	0.97
2012	58	100.4	100.9	100.3	99.9	10.5	10.0	8.8	11.3	0.99	0.92	0.98
2013	67	101.5	102.1	100.5	100.9	8.8	8.0	6.6	10.6	0.86	0.84	0.98
2014	64	99.5	100.6	99.4	98.4	8.2	7.6	7.7	10.4	0.89	0.84	0.98
2015	52	101.6	103.4	101.4	100.7	8.7	6.6	7.5	10.7	0.82	0.89	0.98
2016	32	100.9	102.9	98.8	98.7	10.9	7.0	11.0	14.3	0.80	0.96	0.99
2017	38	101.0	103.7	99.4	99.5	8.0	7.0	5.2	10.1	0.88	0.67	0.97
2018	24	100.5	101.1	100.6	98.6	11.2	6.6	8.7	14.2	0.87	0.80	0.99
2019	51	102.2	105.1	100.1	100.4	8.0	6.7	3.8	9.9	0.92	0.59	0.96
2020	15	103.3	102.0	103.4	100.8	10.4	8.4	5.2	12.1	0.95	0.68	0.99

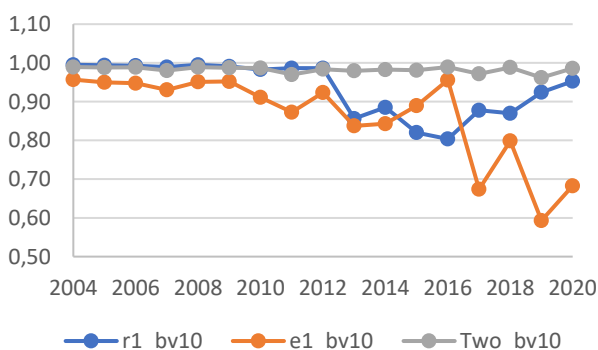
Domestic AI bulls



Domestic AI bulls



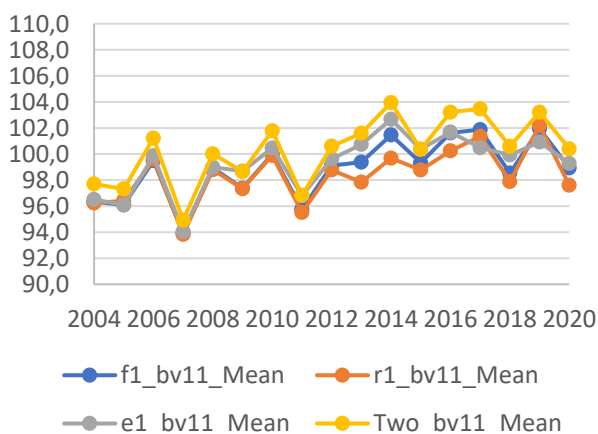
Domestic AI bulls



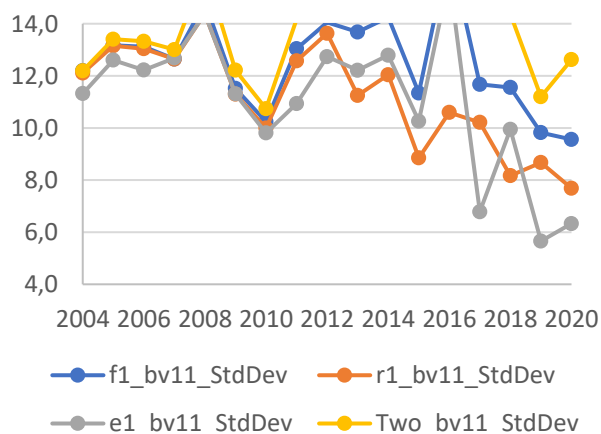
bv11

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	96.3	96.2	96.5	97.7	12.2	12.1	11.3	12.2	1.00	0.96	1.00
2005	45	96.1	96.4	96.1	97.3	13.2	13.2	12.6	13.4	1.00	0.97	1.00
2006	49	99.5	99.6	99.9	101.2	13.1	13.0	12.2	13.3	1.00	0.97	0.99
2007	55	93.9	93.8	94.0	94.9	12.6	12.6	12.7	13.0	1.00	0.97	1.00
2008	47	98.9	98.8	99.0	100.0	14.8	14.4	14.4	16.1	0.99	0.97	0.99
2009	58	97.4	97.3	98.7	98.6	11.5	11.3	11.3	12.2	0.99	0.97	0.99
2010	73	100.0	99.9	100.5	101.8	10.2	10.0	9.8	10.7	0.99	0.93	0.98
2011	75	95.7	95.5	96.8	96.8	13.0	12.6	10.9	14.2	0.99	0.86	0.99
2012	58	99.1	98.8	99.6	100.6	14.1	13.6	12.7	15.0	0.98	0.91	0.99
2013	67	99.4	97.8	100.7	101.6	13.7	11.2	12.2	16.9	0.88	0.91	0.99
2014	64	101.5	99.7	102.7	103.9	14.2	12.0	12.8	18.1	0.93	0.90	0.99
2015	52	99.3	98.8	100.4	100.3	11.3	8.9	10.3	14.8	0.80	0.92	0.99
2016	32	101.6	100.2	101.7	103.2	16.9	10.6	15.8	21.5	0.86	0.97	0.99
2017	38	101.9	101.4	100.5	103.5	11.7	10.2	6.8	14.6	0.90	0.72	0.98
2018	24	98.5	97.9	99.9	100.6	11.6	8.2	9.9	14.4	0.86	0.84	0.98
2019	51	101.9	102.2	100.9	103.2	9.8	8.7	5.7	11.2	0.93	0.54	0.97
2020	15	98.9	97.6	99.3	100.4	9.6	7.7	6.3	12.6	0.94	0.48	0.97

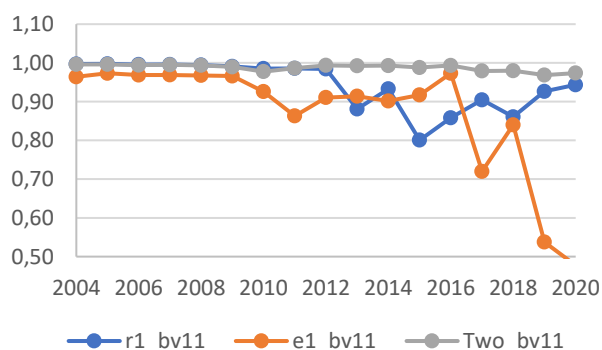
Domestic AI bulls



Domestic AI bulls



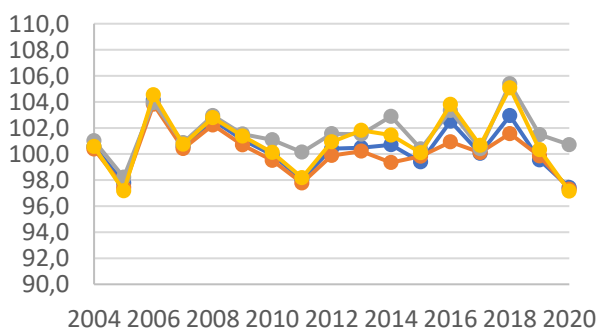
Domestic AI bulls



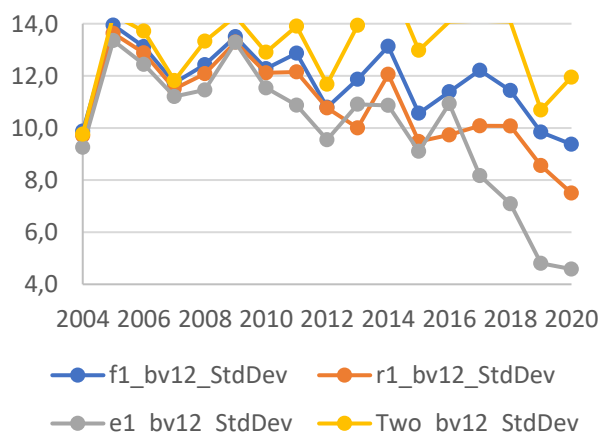
bv12

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	100.6	100.4	101.0	100.6	9.9	9.7	9.3	9.8	1.00	0.97	0.99
2005	45	97.8	97.4	98.2	97.2	13.9	13.6	13.4	14.3	1.00	0.98	0.99
2006	49	104.1	103.8	103.9	104.5	13.1	12.9	12.4	13.7	1.00	0.96	0.99
2007	55	100.6	100.4	100.9	100.7	11.7	11.5	11.2	11.8	0.99	0.97	0.99
2008	47	102.6	102.2	103.0	102.8	12.4	12.1	11.5	13.3	0.99	0.98	0.99
2009	58	101.1	100.7	101.5	101.4	13.5	13.3	13.3	14.3	1.00	0.97	0.99
2010	73	99.9	99.5	101.1	100.1	12.3	12.1	11.5	12.9	0.99	0.94	0.99
2011	75	98.1	97.8	100.1	98.2	12.9	12.1	10.9	13.9	0.99	0.89	0.99
2012	58	100.4	99.9	101.6	100.9	10.8	10.8	9.5	11.7	0.99	0.91	0.99
2013	67	100.5	100.2	101.5	101.8	11.9	10.0	10.9	13.9	0.87	0.93	0.99
2014	64	100.7	99.3	102.9	101.5	13.1	12.1	10.9	15.8	0.94	0.88	0.99
2015	52	99.4	99.8	100.4	100.1	10.6	9.5	9.1	13.0	0.87	0.88	0.99
2016	32	102.5	100.9	103.3	103.8	11.4	9.7	10.9	14.1	0.84	0.90	0.99
2017	38	100.0	100.1	100.4	100.7	12.2	10.1	8.2	14.1	0.90	0.87	0.99
2018	24	102.9	101.6	105.4	105.1	11.4	10.1	7.1	14.1	0.91	0.80	0.99
2019	51	99.5	99.8	101.5	100.3	9.8	8.6	4.8	10.7	0.89	0.51	0.98
2020	15	97.4	97.3	100.7	97.1	9.4	7.5	4.6	11.9	0.94	0.31	0.98

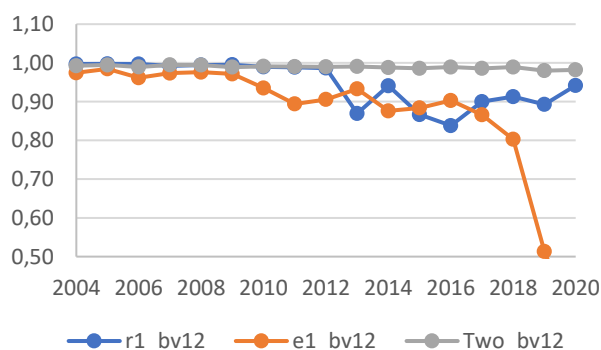
Domestic AI bulls



Domestic AI bulls



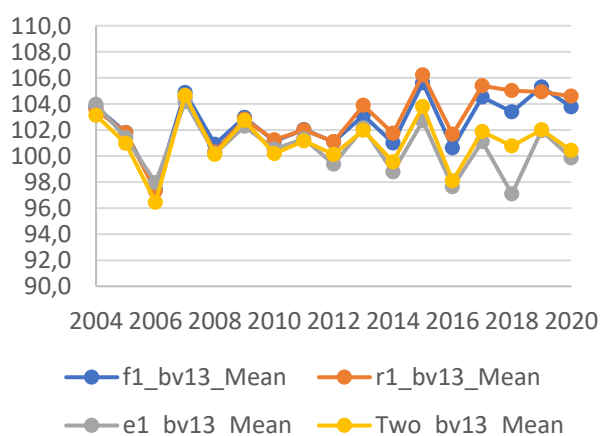
Domestic AI bulls



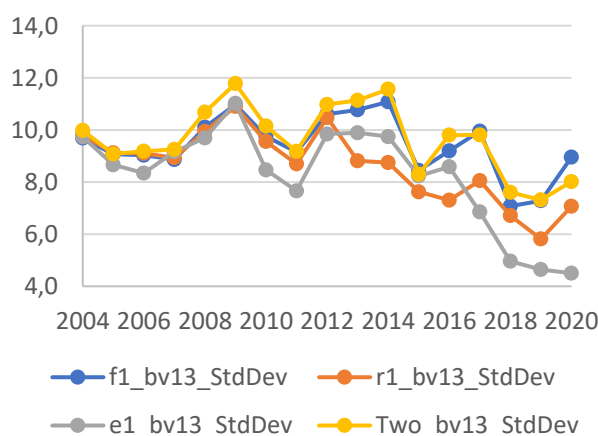
bv13

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	103.8	103.6	104.0	103.1	9.7	9.8	9.7	10.0	1.00	0.98	0.99
2005	45	101.8	101.8	101.4	101.0	9.1	9.1	8.7	9.1	0.99	0.96	0.99
2006	49	97.4	97.3	98.0	96.5	9.0	9.1	8.3	9.2	0.99	0.95	0.99
2007	55	104.9	104.5	104.2	104.7	8.9	8.9	9.2	9.3	0.99	0.96	0.99
2008	47	100.9	100.3	100.2	100.1	10.1	9.9	9.7	10.7	0.99	0.96	0.99
2009	58	103.0	102.8	102.3	102.7	11.0	10.9	11.0	11.8	0.99	0.97	0.99
2010	73	101.1	101.2	100.5	100.2	9.8	9.6	8.5	10.1	0.99	0.91	0.98
2011	75	102.0	102.0	101.3	101.2	9.2	8.7	7.7	9.2	0.97	0.88	0.98
2012	58	101.1	101.1	99.4	100.1	10.6	10.5	9.8	11.0	0.98	0.93	0.99
2013	67	103.1	103.9	102.2	102.0	10.8	8.8	9.9	11.1	0.82	0.92	0.99
2014	64	101.0	101.7	98.8	99.5	11.1	8.7	9.7	11.6	0.88	0.93	0.98
2015	52	105.6	106.2	102.7	103.8	8.4	7.6	8.2	8.3	0.83	0.89	0.98
2016	32	100.6	101.7	97.6	98.1	9.2	7.3	8.6	9.8	0.83	0.93	0.99
2017	38	104.5	105.4	101.1	101.9	10.0	8.1	6.9	9.8	0.87	0.70	0.98
2018	24	103.4	105.0	97.1	100.8	7.1	6.7	5.0	7.6	0.87	0.51	0.95
2019	51	105.3	104.9	101.9	102.0	7.3	5.8	4.6	7.3	0.87	0.63	0.94
2020	15	103.8	104.6	99.9	100.4	9.0	7.1	4.5	8.0	0.89	0.53	0.97

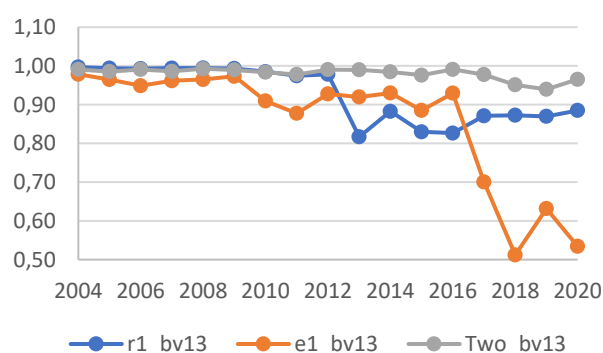
Domestic AI bulls



Domestic AI bulls



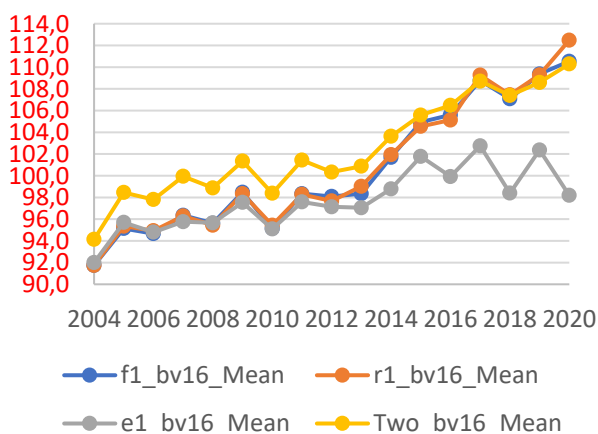
Domestic AI bulls



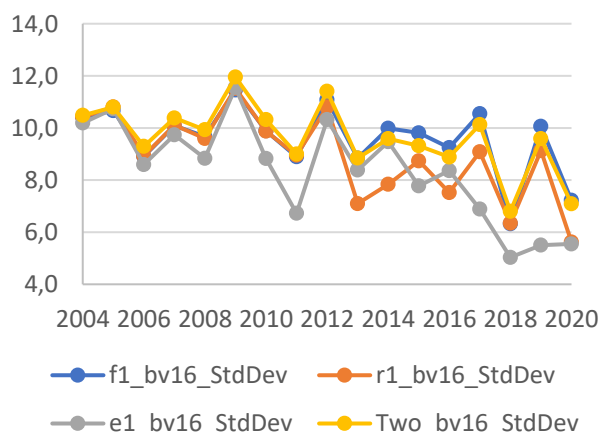
bv16

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	91.7	91.7	92.0	94.1	10.4	10.4	10.2	10.5	1.00	0.98	0.99
2005	45	95.1	95.4	95.7	98.5	10.7	10.8	10.7	10.8	1.00	0.99	0.99
2006	49	94.7	94.9	94.8	97.8	8.9	8.9	8.6	9.3	1.00	0.99	0.97
2007	55	96.4	96.3	95.8	99.9	10.1	10.1	9.7	10.4	1.00	0.97	0.99
2008	47	95.6	95.4	95.7	98.9	9.7	9.6	8.8	9.9	1.00	0.98	0.99
2009	58	98.5	98.3	97.5	101.3	11.5	11.5	11.6	12.0	1.00	0.98	0.99
2010	73	95.1	95.4	95.1	98.4	9.9	9.9	8.8	10.3	0.99	0.92	0.98
2011	75	98.3	98.3	97.6	101.4	8.9	9.0	6.7	9.0	0.99	0.82	0.98
2012	58	98.1	97.7	97.1	100.3	11.1	10.8	10.3	11.4	0.99	0.94	0.99
2013	67	98.3	99.0	97.1	100.9	8.8	7.1	8.4	8.8	0.86	0.90	0.98
2014	64	101.7	101.9	98.8	103.6	10.0	7.8	9.5	9.6	0.91	0.90	0.98
2015	52	104.9	104.5	101.8	105.6	9.8	8.7	7.8	9.3	0.88	0.90	0.98
2016	32	105.6	105.1	99.9	106.5	9.2	7.5	8.4	8.9	0.72	0.90	0.99
2017	38	108.8	109.3	102.8	108.7	10.5	9.1	6.9	10.1	0.92	0.80	0.98
2018	24	107.1	107.5	98.4	107.4	6.3	6.3	5.0	6.8	0.85	0.58	0.96
2019	51	109.4	109.3	102.4	108.6	10.1	9.1	5.5	9.6	0.94	0.54	0.98
2020	15	110.5	112.5	98.2	110.3	7.2	5.6	5.5	7.1	0.92	0.57	0.97

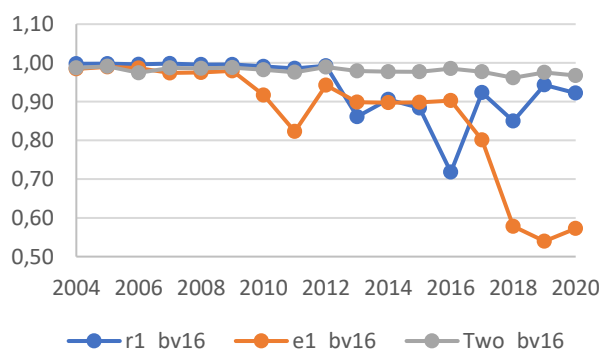
Domestic AI bulls



Domestic AI bulls



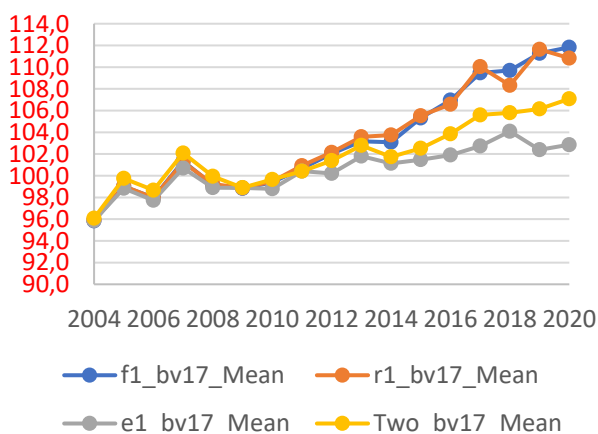
Domestic AI bulls



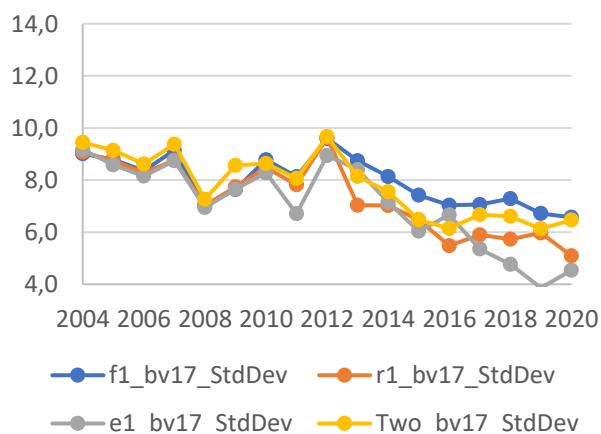
bv17 maybe problem here

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	95.8	95.9	95.9	96.1	9.0	9.1	9.2	9.4	1.00	0.99	0.98
2005	45	99.0	99.0	98.8	99.8	8.8	8.7	8.6	9.1	1.00	0.98	0.99
2006	49	98.0	98.0	97.7	98.7	8.4	8.3	8.1	8.6	1.00	0.98	0.98
2007	55	101.3	101.3	100.7	102.1	9.1	8.8	8.7	9.4	1.00	0.98	0.99
2008	47	99.2	99.2	98.9	99.9	7.0	7.0	6.9	7.3	0.99	0.93	0.98
2009	58	98.8	98.9	98.9	98.9	7.6	7.7	7.6	8.6	0.99	0.93	0.97
2010	73	99.4	99.5	98.8	99.7	8.8	8.5	8.3	8.6	0.99	0.91	0.97
2011	75	100.7	100.9	100.4	100.4	8.1	7.8	6.7	8.1	0.98	0.89	0.97
2012	58	102.0	102.1	100.2	101.4	9.6	9.6	8.9	9.7	0.99	0.93	0.99
2013	67	103.2	103.6	101.8	102.8	8.7	7.0	8.4	8.1	0.87	0.92	0.98
2014	64	103.1	103.8	101.1	101.7	8.1	7.0	7.1	7.5	0.84	0.88	0.98
2015	52	105.3	105.5	101.5	102.5	7.4	6.5	6.0	6.5	0.78	0.83	0.96
2016	32	107.0	106.6	101.9	103.9	7.0	5.5	6.7	6.1	0.71	0.95	0.98
2017	38	109.5	110.0	102.7	105.6	7.1	5.9	5.4	6.7	0.84	0.72	0.97
2018	24	109.7	108.3	104.1	105.8	7.3	5.7	4.8	6.6	0.87	0.74	0.96
2019	51	111.3	111.6	102.4	106.2	6.7	6.0	3.9	6.1	0.85	0.69	0.96
2020	15	111.8	110.8	102.9	107.1	6.6	5.1	4.5	6.5	0.88	0.53	0.94

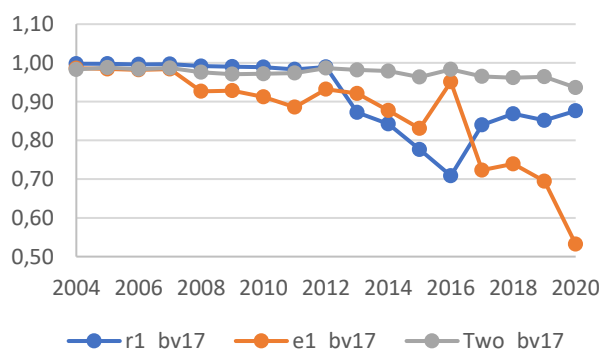
Domestic AI bulls



Domestic AI bulls



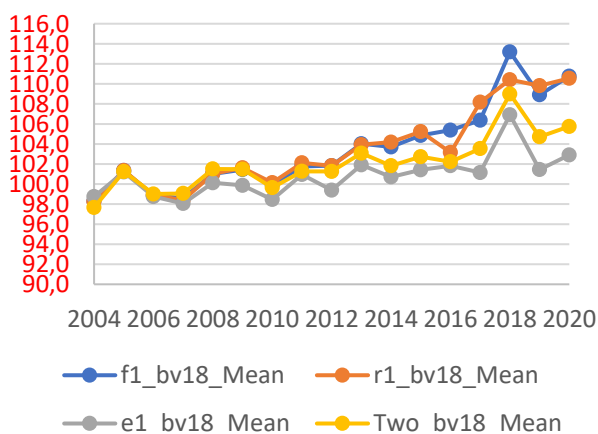
Domestic AI bulls



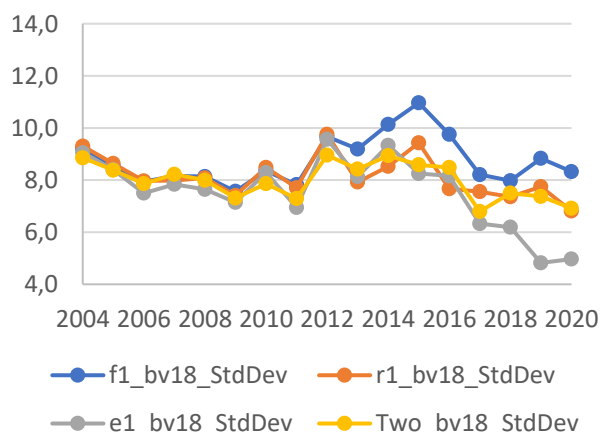
bv18

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	98.3	98.3	98.7	97.7	9.2	9.3	9.0	8.9	1.00	0.98	0.97
2005	45	101.3	101.4	101.2	101.2	8.5	8.6	8.4	8.4	1.00	0.98	0.98
2006	49	98.9	98.9	98.8	99.0	7.9	8.0	7.5	7.9	1.00	0.98	0.96
2007	55	98.6	98.4	98.1	99.1	8.2	8.0	7.8	8.2	1.00	0.97	0.98
2008	47	101.0	101.0	100.1	101.5	8.1	8.1	7.6	8.0	0.99	0.96	0.98
2009	58	101.4	101.6	99.9	101.5	7.6	7.4	7.1	7.3	0.99	0.94	0.95
2010	73	99.9	100.1	98.5	99.6	8.4	8.5	8.3	7.9	0.99	0.92	0.98
2011	75	101.8	102.1	100.9	101.3	7.8	7.7	6.9	7.3	0.98	0.89	0.96
2012	58	101.8	101.8	99.4	101.3	9.7	9.8	9.6	9.0	0.99	0.96	0.98
2013	67	104.0	103.9	101.9	103.1	9.2	7.9	8.1	8.4	0.88	0.92	0.98
2014	64	103.7	104.2	100.7	101.8	10.1	8.5	9.3	8.9	0.86	0.92	0.98
2015	52	104.9	105.2	101.4	102.7	11.0	9.4	8.3	8.6	0.90	0.85	0.98
2016	32	105.4	103.2	101.8	102.2	9.8	7.7	8.2	8.5	0.87	0.95	0.99
2017	38	106.4	108.2	101.2	103.5	8.2	7.6	6.3	6.8	0.92	0.60	0.98
2018	24	113.2	110.4	106.9	109.0	8.0	7.4	6.2	7.5	0.89	0.76	0.97
2019	51	108.9	109.8	101.4	104.7	8.8	7.7	4.8	7.4	0.93	0.57	0.98
2020	15	110.8	110.5	102.9	105.7	8.3	6.8	5.0	6.9	0.84	0.78	0.98

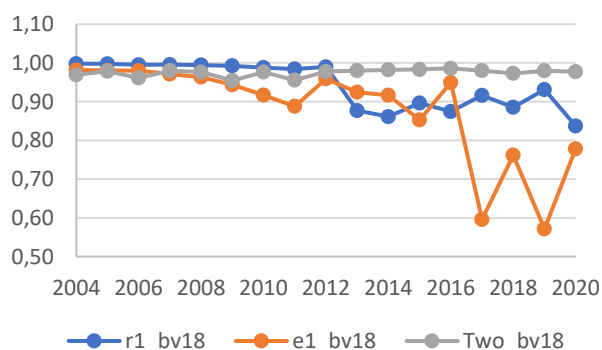
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

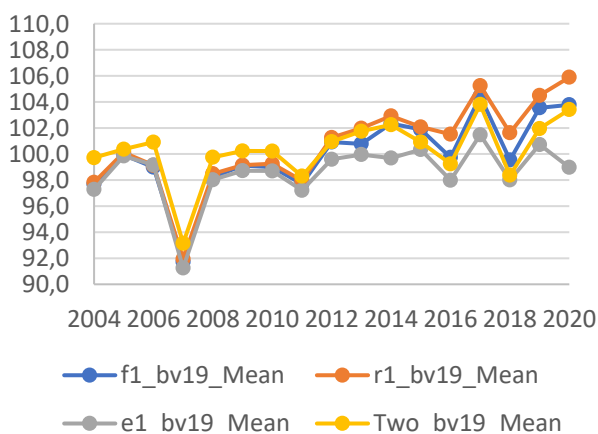


Mælkeafgiftsfonden

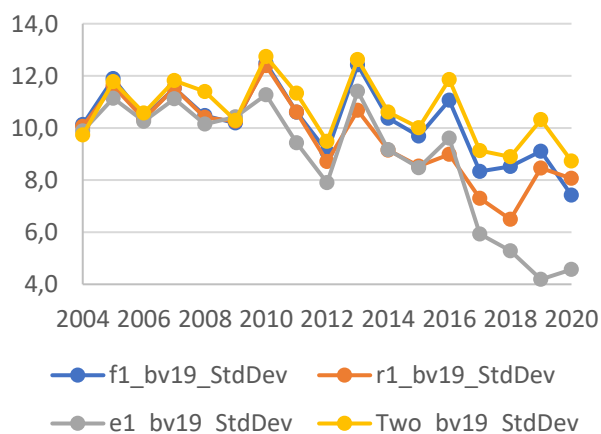
bv19

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	97.7	97.8	97.3	99.7	10.1	10.1	9.9	9.7	1.00	0.98	0.97
2005	45	99.9	100.1	99.9	100.4	11.9	11.6	11.1	11.8	1.00	0.99	0.98
2006	49	99.0	99.1	99.2	100.9	10.4	10.3	10.3	10.6	1.00	0.97	0.98
2007	55	91.7	91.9	91.3	93.1	11.5	11.5	11.1	11.8	1.00	0.98	0.99
2008	47	98.2	98.5	98.0	99.8	10.5	10.4	10.1	11.4	1.00	0.97	0.98
2009	58	99.1	99.1	98.7	100.2	10.2	10.3	10.4	10.3	0.99	0.97	0.98
2010	73	99.0	99.2	98.7	100.2	12.5	12.4	11.3	12.7	0.99	0.94	0.98
2011	75	97.7	98.0	97.2	98.3	10.6	10.6	9.4	11.3	0.99	0.92	0.98
2012	58	100.9	101.3	99.6	100.9	9.1	8.7	7.9	9.5	0.98	0.91	0.98
2013	67	100.8	102.0	100.0	101.7	12.4	10.7	11.4	12.6	0.91	0.94	0.99
2014	64	102.3	102.9	99.7	102.2	10.4	9.1	9.2	10.6	0.93	0.90	0.98
2015	52	101.9	102.1	100.3	100.9	9.7	8.5	8.5	10.0	0.88	0.85	0.97
2016	32	99.7	101.5	98.0	99.2	11.1	9.0	9.6	11.9	0.82	0.92	0.99
2017	38	104.4	105.2	101.5	103.8	8.3	7.3	5.9	9.1	0.90	0.45	0.96
2018	24	99.5	101.6	98.0	98.4	8.5	6.5	5.3	8.9	0.83	0.68	0.96
2019	51	103.5	104.5	100.7	102.0	9.1	8.5	4.2	10.3	0.95	0.62	0.97
2020	15	103.8	105.9	99.0	103.4	7.4	8.1	4.6	8.7	0.87	0.24	0.91

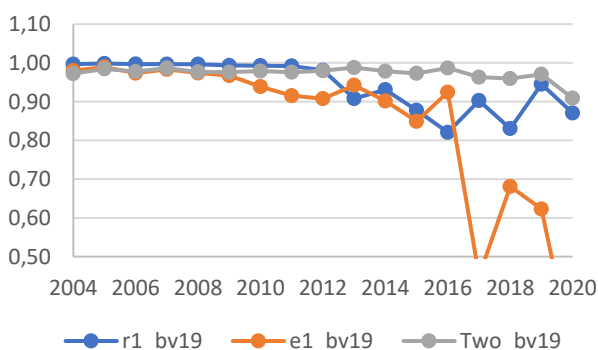
Domestic AI bulls



Domestic AI bulls



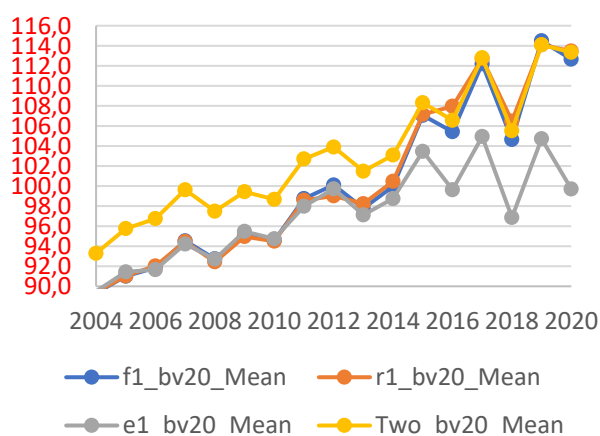
Domestic AI bulls



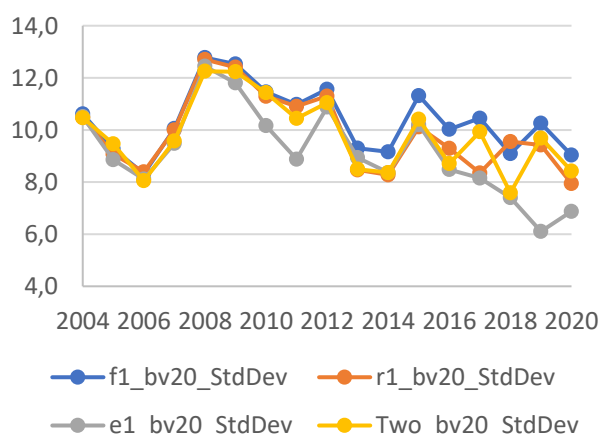
bv20

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	89.3	89.4	89.5	93.3	10.6	10.5	10.5	10.5	1.00	0.99	0.99
2005	45	91.0	91.0	91.4	95.8	9.3	9.1	8.9	9.5	1.00	0.98	0.99
2006	49	91.9	92.0	91.7	96.8	8.3	8.4	8.1	8.1	1.00	0.99	0.98
2007	55	94.5	94.5	94.2	99.6	10.1	10.0	9.5	9.6	1.00	0.99	0.99
2008	47	92.7	92.4	92.7	97.5	12.8	12.7	12.4	12.3	1.00	0.99	0.99
2009	58	95.1	95.0	95.5	99.4	12.5	12.4	11.8	12.2	1.00	0.97	0.99
2010	73	94.6	94.5	94.7	98.7	11.5	11.3	10.2	11.4	1.00	0.93	0.99
2011	75	98.7	98.6	98.0	102.7	11.0	10.9	8.9	10.4	0.99	0.86	0.98
2012	58	100.1	99.0	99.7	103.9	11.6	11.3	10.9	11.0	0.99	0.96	0.99
2013	67	97.8	98.2	97.1	101.5	9.3	8.5	8.9	8.5	0.87	0.92	0.99
2014	64	100.0	100.5	98.8	103.1	9.2	8.3	8.4	8.4	0.86	0.87	0.98
2015	52	107.1	107.2	103.5	108.3	11.3	10.1	10.2	10.4	0.92	0.93	0.99
2016	32	105.4	108.0	99.6	106.6	10.0	9.3	8.5	8.7	0.87	0.93	0.99
2017	38	112.2	112.7	104.9	112.8	10.5	8.3	8.2	9.9	0.93	0.84	0.99
2018	24	104.7	106.5	96.9	105.5	9.1	9.6	7.4	7.6	0.95	0.84	0.99
2019	51	114.5	114.1	104.7	114.1	10.3	9.4	6.1	9.7	0.94	0.65	0.98
2020	15	112.7	113.5	99.7	113.3	9.0	7.9	6.9	8.4	0.93	0.82	0.98

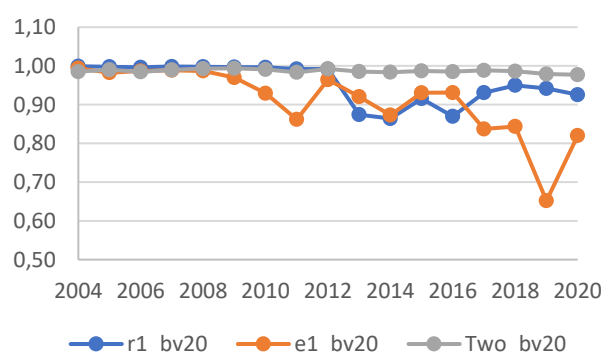
Domestic AI bulls



Domestic AI bulls



Domestic AI bulls

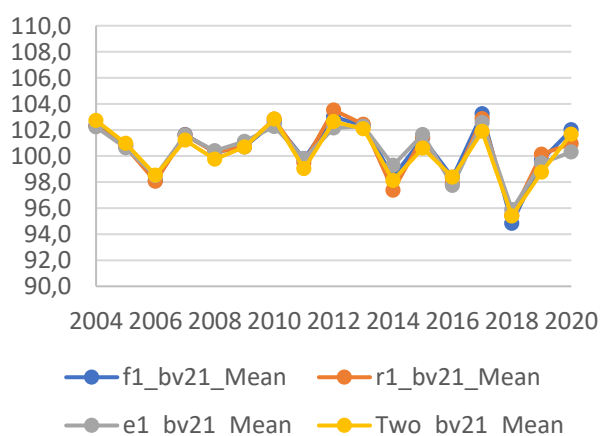


Mælkeafgiftsfonden

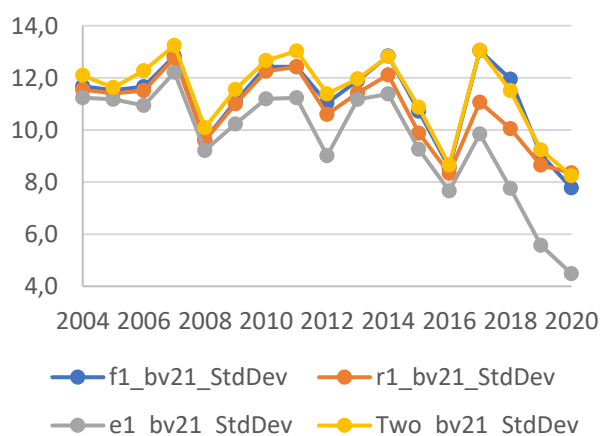
bv21

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	102.3	102.3	102.2	102.7	11.7	11.5	11.2	12.1	1.00	1.00	0.99
2005	45	100.9	100.7	100.6	101.0	11.5	11.4	11.2	11.6	1.00	0.99	0.99
2006	49	98.1	98.1	98.5	98.5	11.7	11.5	10.9	12.3	1.00	1.00	0.99
2007	55	101.6	101.6	101.6	101.2	12.8	12.8	12.2	13.2	1.00	0.99	0.99
2008	47	100.3	100.3	100.4	99.8	9.6	9.6	9.2	10.1	1.00	0.96	0.98
2009	58	100.7	100.7	101.1	100.7	11.1	11.0	10.2	11.6	1.00	0.93	0.99
2010	73	102.6	102.8	102.3	102.8	12.4	12.3	11.2	12.7	1.00	0.94	0.99
2011	75	99.8	99.5	99.8	99.0	12.4	12.4	11.2	13.0	0.99	0.90	0.99
2012	58	103.0	103.5	102.1	102.6	11.0	10.6	9.0	11.4	0.99	0.92	0.98
2013	67	102.3	102.4	102.3	102.1	11.9	11.4	11.2	12.0	0.93	0.91	0.99
2014	64	98.4	97.4	99.3	98.1	12.8	12.1	11.4	12.8	0.91	0.89	0.99
2015	52	101.4	101.4	101.6	100.6	10.7	9.9	9.3	10.9	0.90	0.85	0.99
2016	32	98.3	97.9	97.7	98.4	8.6	8.3	7.7	8.7	0.79	0.94	0.98
2017	38	103.2	102.9	102.6	101.9	13.0	11.1	9.8	13.1	0.94	0.81	0.99
2018	24	94.8	95.5	95.9	95.4	11.9	10.1	7.8	11.5	0.96	0.67	0.98
2019	51	99.7	100.1	99.5	98.8	9.1	8.6	5.6	9.2	0.95	0.51	0.97
2020	15	102.0	100.9	100.3	101.7	7.8	8.4	4.5	8.2	0.88	0.15	0.99

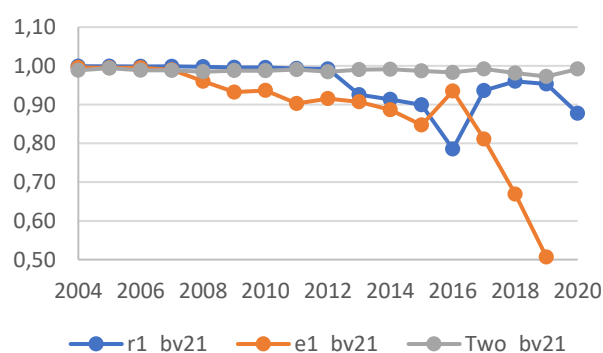
Domestic AI bulls



Domestic AI bulls



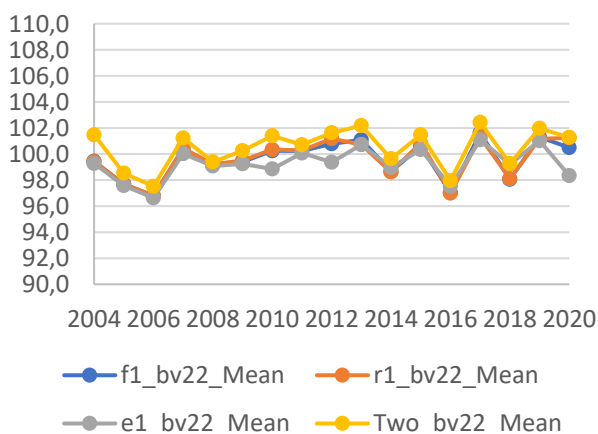
Domestic AI bulls



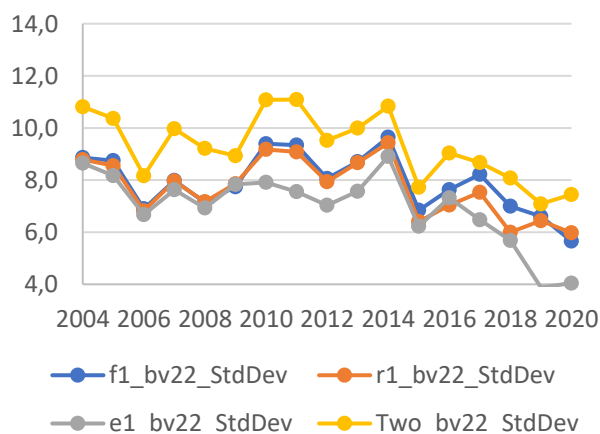
bv22

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	99.4	99.4	99.3	101.5	8.9	8.8	8.6	10.8	1.00	1.00	0.98
2005	45	97.7	97.7	97.6	98.5	8.7	8.6	8.2	10.4	1.00	0.99	0.99
2006	49	96.8	96.8	96.6	97.5	6.9	6.8	6.7	8.2	1.00	0.99	0.98
2007	55	100.4	100.4	100.0	101.2	8.0	8.0	7.6	10.0	1.00	0.99	0.98
2008	47	99.2	99.2	99.1	99.4	7.1	7.2	6.9	9.2	1.00	0.98	0.98
2009	58	99.4	99.5	99.2	100.3	7.7	7.9	7.8	8.9	0.99	0.98	0.98
2010	73	100.2	100.3	98.9	101.4	9.4	9.2	7.9	11.1	1.00	0.94	0.98
2011	75	100.2	100.3	100.1	100.7	9.3	9.1	7.6	11.1	0.99	0.91	0.98
2012	58	100.8	101.2	99.4	101.6	8.1	7.9	7.0	9.5	0.99	0.88	0.97
2013	67	101.1	100.7	100.7	102.2	8.7	8.7	7.6	10.0	0.94	0.90	0.99
2014	64	98.7	98.6	99.0	99.6	9.6	9.4	8.9	10.8	0.92	0.93	0.99
2015	52	100.6	100.8	100.3	101.5	6.8	6.4	6.2	7.7	0.84	0.87	0.97
2016	32	97.0	97.0	97.5	98.0	7.6	7.0	7.3	9.0	0.80	0.96	0.99
2017	38	101.6	101.3	101.1	102.4	8.2	7.5	6.5	8.7	0.91	0.75	0.97
2018	24	98.1	98.1	99.2	99.3	7.0	6.0	5.7	8.1	0.95	0.86	0.98
2019	51	101.3	101.2	101.0	102.0	6.6	6.4	3.9	7.1	0.91	0.52	0.97
2020	15	100.5	101.2	98.3	101.3	5.7	6.0	4.0	7.4	0.78	0.23	0.98

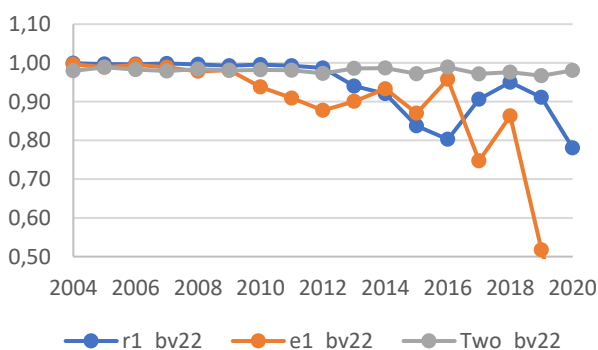
Domestic AI bulls



Domestic AI bulls



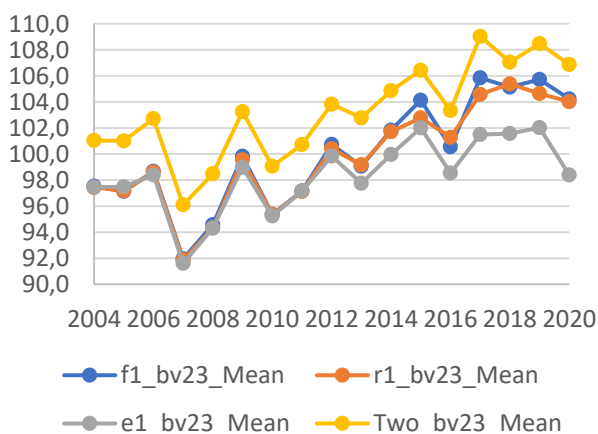
Domestic AI bulls



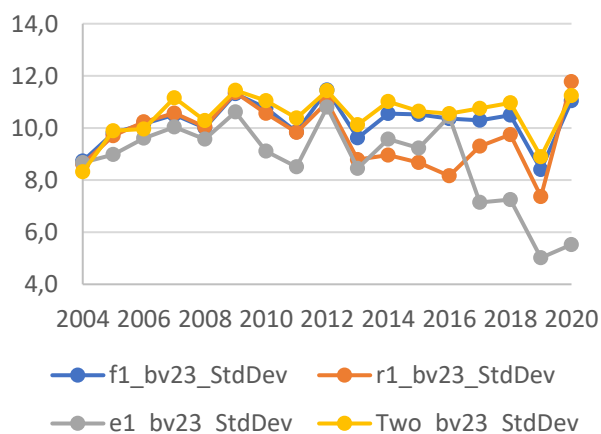
bv23 maybe problem here

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	97.5	97.4	97.5	101.0	8.7	8.6	8.7	8.3	1.00	0.99	0.98
2005	45	97.1	97.2	97.5	101.0	9.8	9.7	9.0	9.9	1.00	0.98	0.98
2006	49	98.7	98.6	98.4	102.7	10.2	10.2	9.6	10.0	1.00	0.97	0.98
2007	55	92.0	91.9	91.6	96.1	10.5	10.6	10.0	11.2	1.00	0.99	0.99
2008	47	94.6	94.3	94.3	98.5	10.0	10.0	9.6	10.3	1.00	0.94	0.99
2009	58	99.8	99.5	99.0	103.3	11.3	11.4	10.6	11.4	1.00	0.96	0.98
2010	73	95.4	95.3	95.2	99.1	10.8	10.6	9.1	11.0	0.99	0.90	0.98
2011	75	97.2	97.1	97.2	100.7	9.8	9.8	8.5	10.4	0.99	0.89	0.98
2012	58	100.7	100.4	99.8	103.8	11.5	11.0	10.8	11.4	0.99	0.97	0.99
2013	67	99.1	99.2	97.8	102.8	9.6	8.8	8.4	10.1	0.89	0.90	0.98
2014	64	101.8	101.7	100.0	104.9	10.6	9.0	9.6	11.0	0.90	0.90	0.99
2015	52	104.1	102.8	102.0	106.4	10.5	8.7	9.2	10.6	0.84	0.84	0.98
2016	32	100.5	101.3	98.5	103.3	10.4	8.2	10.4	10.5	0.71	0.95	0.99
2017	38	105.8	104.6	101.5	109.0	10.3	9.3	7.1	10.8	0.94	0.63	0.98
2018	24	105.1	105.4	101.6	107.1	10.5	9.7	7.3	11.0	0.89	0.73	0.98
2019	51	105.7	104.6	102.0	108.5	8.4	7.4	5.0	8.9	0.89	0.42	0.98
2020	15	104.2	104.0	98.4	106.9	11.0	11.8	5.5	11.2	0.95	0.20	0.97

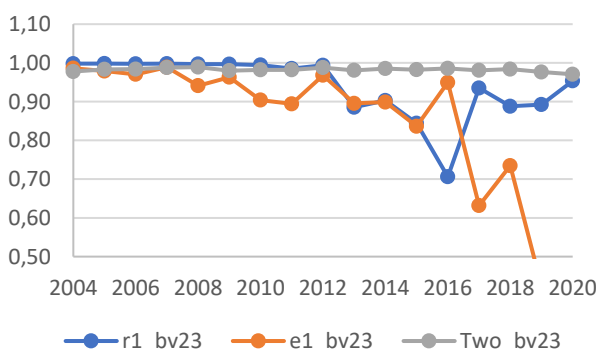
Domestic AI bulls



Domestic AI bulls



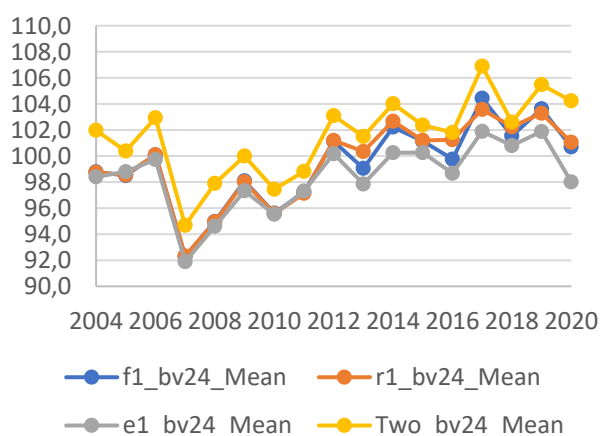
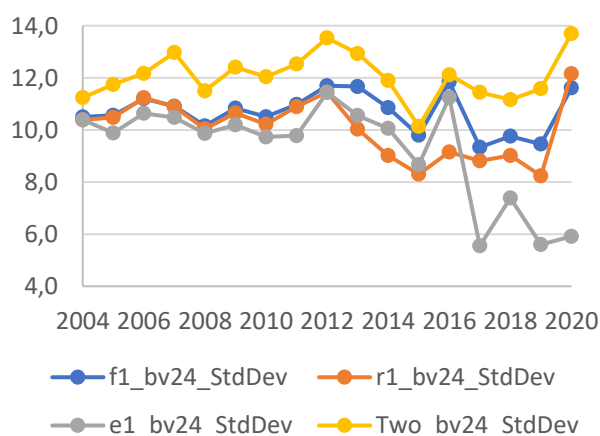
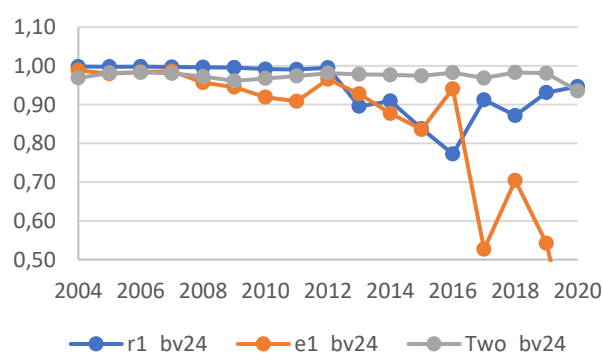
Domestic AI bulls



Mælkeafgiftsfonden

bv24

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	98.8	98.7	98.4	102.0	10.5	10.4	10.4	11.2	1.00	0.99	0.97
2005	45	98.5	98.5	98.8	100.4	10.6	10.5	9.9	11.7	1.00	0.98	0.98
2006	49	100.1	100.1	99.7	102.9	11.2	11.2	10.6	12.2	1.00	0.98	0.98
2007	55	92.3	92.3	91.9	94.7	10.9	10.9	10.5	13.0	1.00	0.99	0.98
2008	47	95.0	94.9	94.6	97.9	10.2	10.0	9.9	11.5	1.00	0.96	0.97
2009	58	98.1	98.0	97.3	100.0	10.8	10.6	10.2	12.4	1.00	0.95	0.96
2010	73	95.6	95.6	95.5	97.4	10.5	10.2	9.7	12.0	0.99	0.92	0.97
2011	75	97.2	97.1	97.3	98.8	11.0	10.9	9.8	12.5	0.99	0.91	0.97
2012	58	101.1	101.2	100.2	103.1	11.7	11.4	11.4	13.5	1.00	0.97	0.98
2013	67	99.0	100.3	97.9	101.5	11.7	10.0	10.6	12.9	0.90	0.93	0.98
2014	64	102.2	102.7	100.3	104.0	10.9	9.0	10.1	11.9	0.91	0.88	0.98
2015	52	101.1	101.2	100.3	102.4	9.8	8.3	8.7	10.1	0.84	0.84	0.97
2016	32	99.8	101.2	98.7	101.8	11.8	9.2	11.2	12.1	0.77	0.94	0.98
2017	38	104.4	103.6	101.9	106.9	9.3	8.8	5.6	11.4	0.91	0.53	0.97
2018	24	101.5	102.2	100.8	102.6	9.8	9.0	7.4	11.2	0.87	0.70	0.98
2019	51	103.6	103.3	101.9	105.5	9.5	8.2	5.6	11.6	0.93	0.54	0.98
2020	15	100.7	101.1	98.0	104.2	11.6	12.2	5.9	13.7	0.95	0.19	0.94

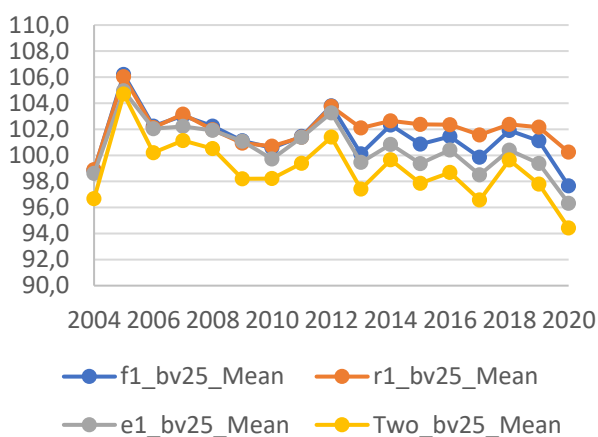
Domestic AI bulls

Domestic AI bulls

Domestic AI bulls


Mælkeafgiftsfonden

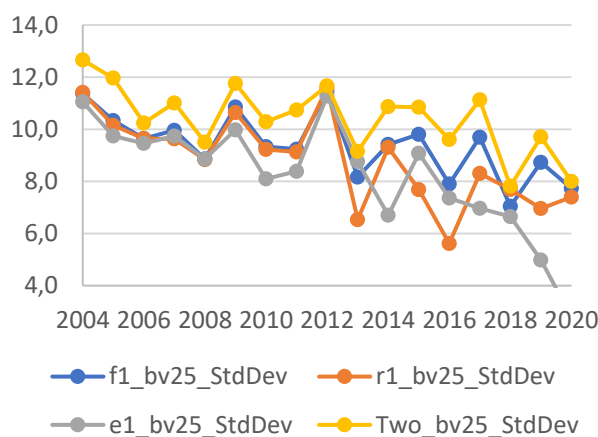
bv25

Birth year	N	Mean				SD				corr		
		f1	r1	e1	Two	f1	r1	e1	Two	r1	e1	Two
2004	48	98.8	98.9	98.6	96.7	11.4	11.4	11.1	12.7	1.00	0.99	0.99
2005	45	106.2	106.0	105.0	104.7	10.3	10.2	9.7	12.0	1.00	0.97	0.98
2006	49	102.2	102.1	102.0	100.2	9.6	9.6	9.5	10.2	1.00	0.98	0.98
2007	55	103.0	103.2	102.2	101.1	10.0	9.6	9.7	11.0	1.00	0.98	0.97
2008	47	102.2	102.0	101.9	100.5	8.9	8.8	8.9	9.5	0.99	0.97	0.96
2009	58	101.1	100.9	101.1	98.2	10.9	10.6	10.0	11.8	1.00	0.97	0.97
2010	73	100.6	100.7	99.7	98.2	9.3	9.2	8.1	10.3	0.99	0.92	0.98
2011	75	101.5	101.4	101.4	99.4	9.2	9.1	8.4	10.7	0.99	0.91	0.97
2012	58	103.8	103.8	103.3	101.4	11.5	11.6	11.3	11.7	0.99	0.97	0.98
2013	67	100.1	102.1	99.5	97.4	8.2	6.5	8.8	9.2	0.79	0.89	0.97
2014	64	102.3	102.6	100.8	99.7	9.4	9.3	6.7	10.9	0.92	0.82	0.98
2015	52	100.9	102.4	99.4	97.9	9.8	7.7	9.1	10.8	0.88	0.88	0.98
2016	32	101.4	102.4	100.4	98.7	7.9	5.6	7.4	9.6	0.57	0.92	0.98
2017	38	99.9	101.6	98.5	96.6	9.7	8.3	7.0	11.1	0.90	0.73	0.97
2018	24	101.9	102.4	100.4	99.6	7.0	7.7	6.6	7.8	0.83	0.54	0.97
2019	51	101.1	102.2	99.4	97.8	8.7	7.0	5.0	9.7	0.94	0.59	0.98
2020	15	97.7	100.2	96.3	94.4	7.7	7.4	2.8	8.0	0.92	0.50	0.98

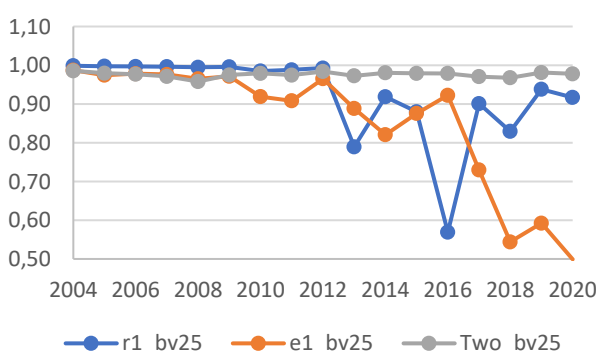
Domestic AI bulls



Domestic AI bulls



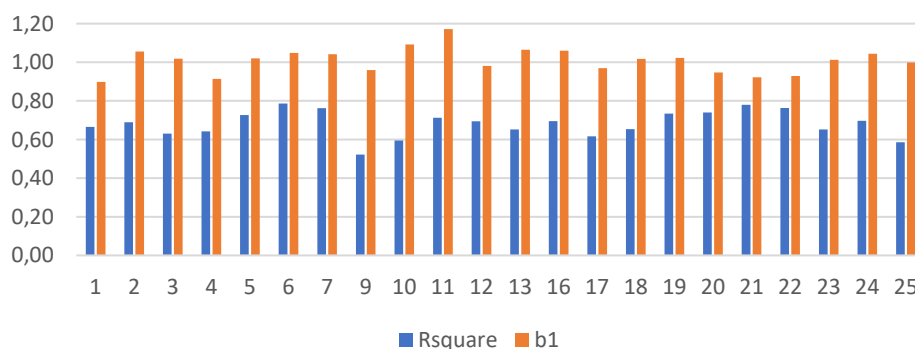
Domestic AI bulls



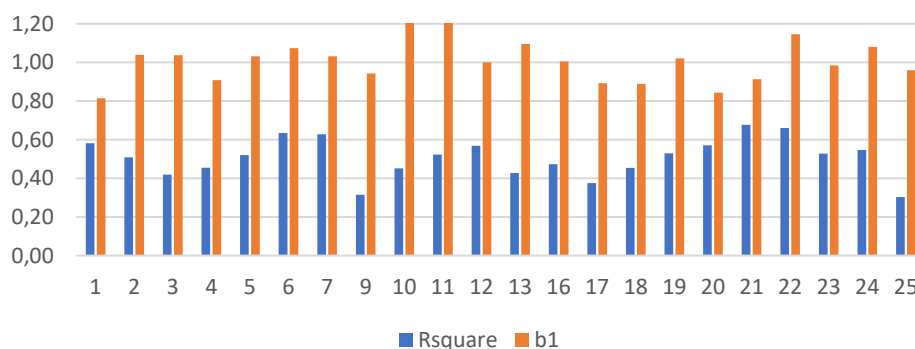
JER Interbull validation and Legarra Reverter regression

	LR		Interbull		Interbull pedigree	
	Rsquare	b1	Rsquare	b1	Rsquare	b1
1	0.67	0.90	0.58	0.81	0.19	0.82
2	0.69	1.06	0.51	1.04	0.29	1.13
3	0.63	1.02	0.42	1.04	0.18	0.98
4	0.64	0.91	0.45	0.91	0.31	1.37
5	0.73	1.02	0.52	1.03	0.24	1.09
6	0.79	1.05	0.63	1.07	0.41	1.28
7	0.76	1.04	0.63	1.03	0.24	1.03
9	0.52	0.96	0.31	0.94	0.11	0.87
10	0.60	1.09	0.45	1.25	0.31	1.40
11	0.71	1.17	0.52	1.23	0.32	1.29
12	0.69	0.98	0.57	1.00	0.29	1.00
13	0.65	1.06	0.43	1.10	0.18	1.13
16	0.70	1.06	0.47	1.01	0.20	0.99
17	0.62	0.97	0.38	0.89	0.28	1.20
18	0.65	1.02	0.45	0.89	0.26	0.91
19	0.73	1.02	0.53	1.02	0.36	1.37
20	0.74	0.95	0.57	0.84	0.31	1.14
21	0.78	0.92	0.68	0.91	0.26	0.91
22	0.76	0.93	0.66	1.15	0.27	0.98
23	0.65	1.01	0.53	0.98	0.12	0.79
24	0.70	1.04	0.55	1.08	0.18	1.04
25	0.59	1.00	0.30	0.96	0.15	0.83

Legarra Reverter



Interbull



Appendix 2

Stability Holstein

For Holstein the November run are compared with the May run to check stability of the single step GEBV's

Cows

For Nordic Holstein cows with phenotypes in May run. Both genotyped and nongenotyped females are included.

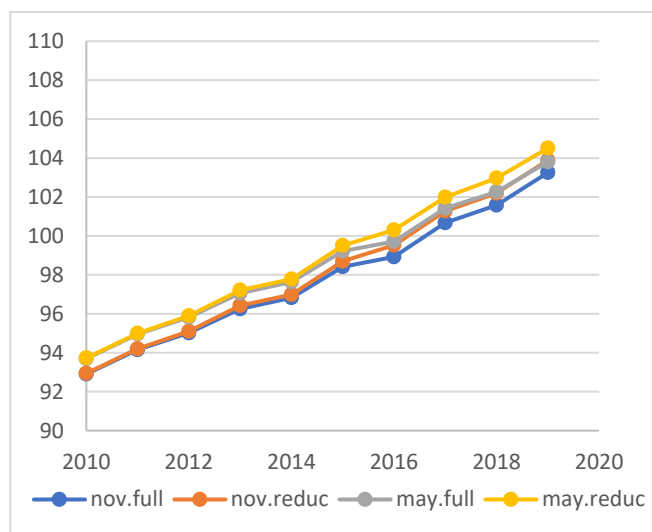
bv1

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62816	0.999	0.999	1.000
2011	56881	0.998	0.998	1.000
2012	54731	0.997	0.997	1.000
2013	55101	0.995	0.995	0.999
2014	53877	0.993	0.994	0.999
2015	49431	0.943	0.943	0.998
2016	46539	0.846	0.847	0.997
2017	42187	0.823	0.819	0.996
2018	30844	0.822	0.817	0.995
2019	1119	0.837	0.831	0.995

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62816	92.9	92.9	93.7	93.7
2011	56881	94.2	94.2	95.0	95.0
2012	54731	95.0	95.1	95.8	95.9
2013	55101	96.3	96.4	97.1	97.2
2014	53877	96.8	97.0	97.6	97.8
2015	49431	98.4	98.7	99.2	99.5
2016	46539	98.9	99.5	99.7	100.3
2017	42187	100.7	101.3	101.4	102.0
2018	30844	101.6	102.2	102.3	103.0
2019	1119	103.3	103.9	103.8	104.5

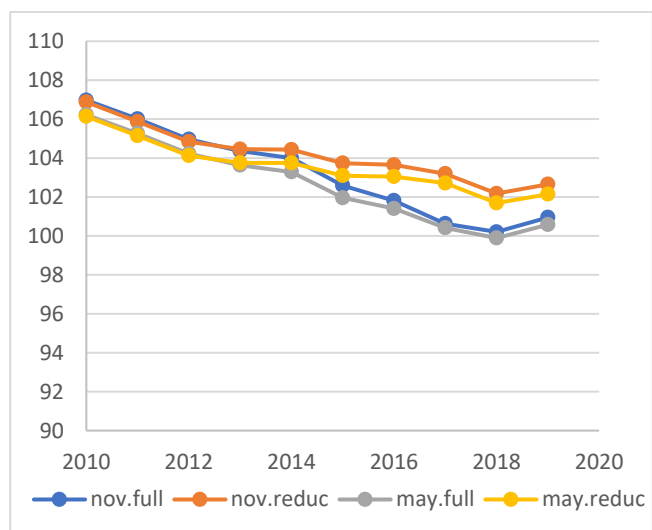
**bv2**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56880	0.996	0.996	0.999
2012	54730	0.994	0.994	0.999
2013	55097	0.991	0.992	0.998
2014	53874	0.988	0.989	0.997
2015	49431	0.950	0.951	0.997
2016	46539	0.869	0.873	0.994
2017	42185	0.865	0.867	0.993
2018	30844	0.872	0.872	0.992
2019	1119	0.859	0.860	0.990

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	107.0	106.9	106.2	106.1
2011	56880	106.0	105.9	105.3	105.1
2012	54730	105.0	104.8	104.2	104.1
2013	55097	104.4	104.5	103.6	103.8
2014	53874	104.0	104.4	103.3	103.7
2015	49431	102.6	103.7	102.0	103.1
2016	46539	101.8	103.6	101.4	103.0
2017	42185	100.6	103.2	100.4	102.7
2018	30844	100.2	102.2	99.9	101.7
2019	1119	100.9	102.7	100.6	102.1



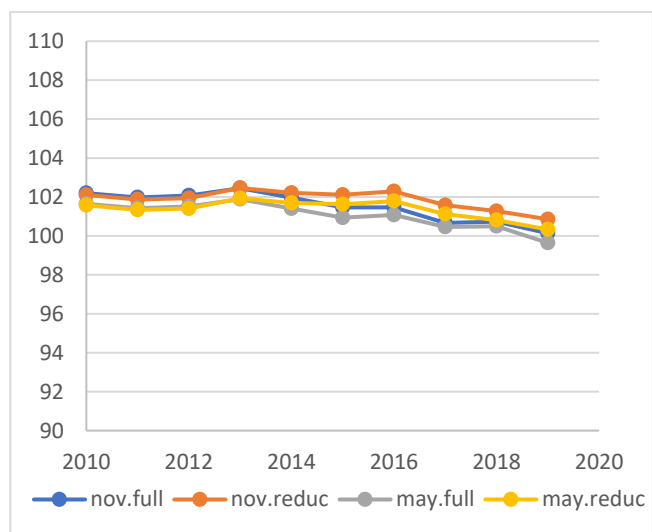
bv3

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56880	0.996	0.996	0.999
2012	54730	0.993	0.994	0.998
2013	55097	0.990	0.991	0.998
2014	53874	0.987	0.989	0.997
2015	49431	0.945	0.946	0.995
2016	46538	0.851	0.855	0.991
2017	42186	0.842	0.845	0.989
2018	30844	0.837	0.834	0.988
2019	1119	0.858	0.862	0.984

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	102.2	102.1	101.6	101.6
2011	56880	102.0	101.9	101.4	101.3
2012	54730	102.1	101.9	101.5	101.4
2013	55097	102.5	102.5	101.9	101.9
2014	53874	102.0	102.2	101.4	101.7
2015	49431	101.5	102.1	100.9	101.6
2016	46538	101.5	102.3	101.1	101.8
2017	42186	100.7	101.6	100.5	101.1
2018	30844	100.7	101.3	100.5	100.8
2019	1119	100.1	100.9	99.6	100.3

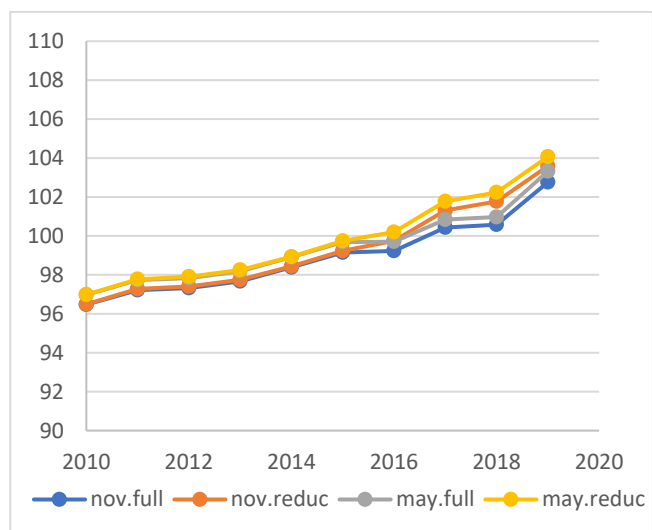
**bv4**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62814	0.997	0.997	1.000
2011	56880	0.995	0.996	0.999
2012	54730	0.993	0.994	0.999
2013	55097	0.990	0.991	0.998
2014	53874	0.988	0.989	0.997
2015	49431	0.948	0.950	0.997
2016	46538	0.870	0.872	0.994
2017	42186	0.847	0.848	0.992
2018	30844	0.850	0.851	0.991
2019	1119	0.841	0.842	0.986

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62814	96.5	96.5	97.0	97.0
2011	56880	97.2	97.3	97.7	97.8
2012	54730	97.3	97.4	97.8	97.9
2013	55097	97.7	97.7	98.2	98.3
2014	53874	98.4	98.4	98.9	98.9
2015	49431	99.1	99.2	99.7	99.7
2016	46538	99.2	99.7	99.7	100.2
2017	42186	100.4	101.3	100.8	101.8
2018	30844	100.6	101.8	101.0	102.2
2019	1119	102.8	103.6	103.3	104.1



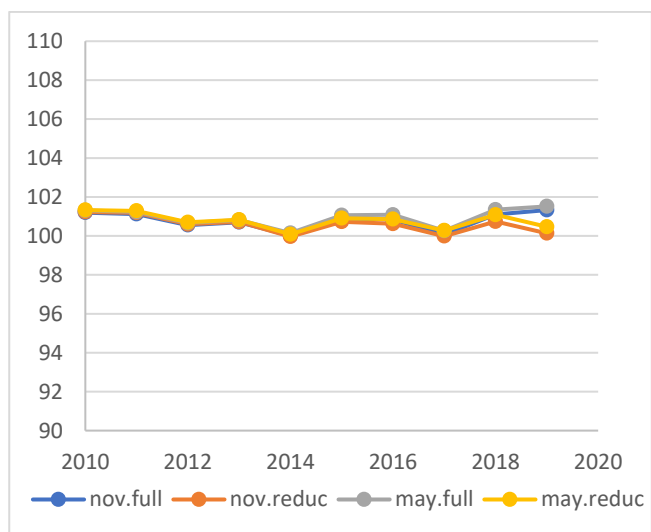
bv5

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.996	0.997	0.999
2011	56880	0.994	0.995	0.999
2012	54730	0.991	0.992	0.998
2013	55097	0.988	0.989	0.997
2014	53874	0.985	0.987	0.997
2015	49431	0.942	0.941	0.995
2016	46538	0.840	0.837	0.992
2017	42185	0.833	0.829	0.990
2018	30844	0.822	0.825	0.986
2019	1119	0.825	0.835	0.984

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	101.2	101.2	101.3	101.3
2011	56880	101.1	101.2	101.2	101.3
2012	54730	100.6	100.6	100.7	100.7
2013	55097	100.7	100.7	100.8	100.8
2014	53874	100.0	100.0	100.1	100.1
2015	49431	100.9	100.7	101.1	100.9
2016	46538	100.8	100.6	101.1	100.9
2017	42185	100.1	100.0	100.3	100.3
2018	30844	101.1	100.7	101.3	101.1
2019	1119	101.3	100.1	101.5	100.5

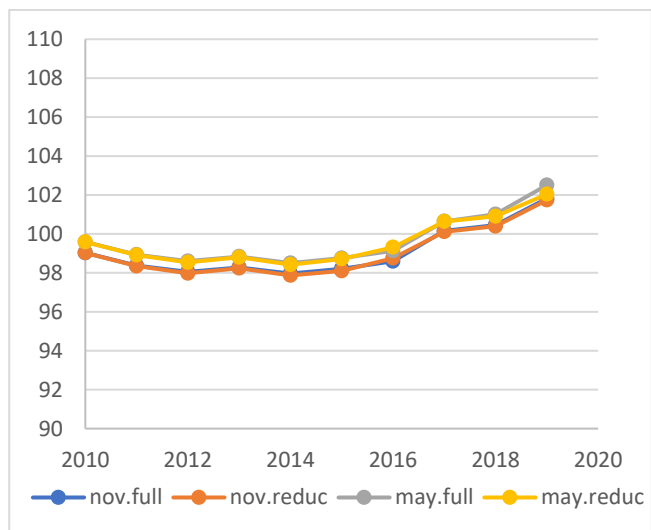
**bv6**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.998	0.998	1.000
2011	56880	0.996	0.996	0.999
2012	54730	0.993	0.994	0.999
2013	55097	0.991	0.992	0.998
2014	53874	0.990	0.991	0.998
2015	49431	0.947	0.949	0.997
2016	46538	0.863	0.865	0.994
2017	42183	0.863	0.866	0.992
2018	30844	0.860	0.857	0.990
2019	1119	0.852	0.855	0.986

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	99.0	99.0	99.6	99.6
2011	56880	98.4	98.3	98.9	98.9
2012	54730	98.1	98.0	98.6	98.5
2013	55097	98.3	98.2	98.8	98.8
2014	53874	98.0	97.9	98.5	98.4
2015	49431	98.2	98.1	98.8	98.7
2016	46538	98.6	98.8	99.1	99.3
2017	42183	100.2	100.1	100.6	100.6
2018	30844	100.5	100.4	101.0	100.9
2019	1119	101.8	101.7	102.5	102.0

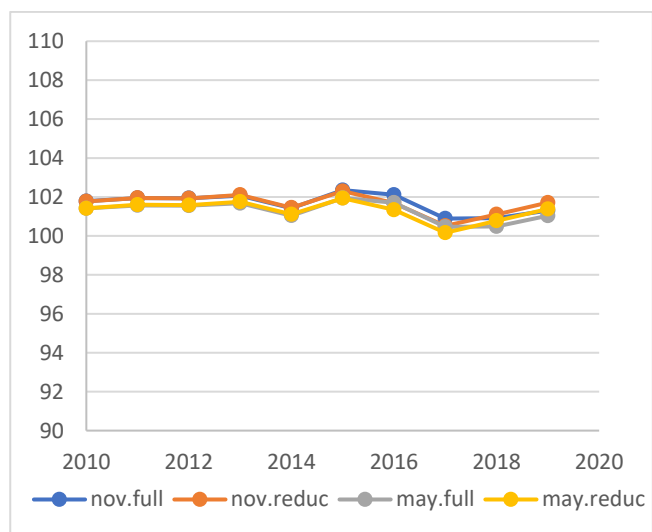
**bv7**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.998	0.998	1.000
2011	56880	0.996	0.997	0.999
2012	54729	0.994	0.994	0.999
2013	55097	0.991	0.992	0.998
2014	53874	0.989	0.990	0.997
2015	49431	0.944	0.946	0.996
2016	46538	0.843	0.847	0.994
2017	42183	0.837	0.837	0.992
2018	30844	0.855	0.852	0.992
2019	1119	0.847	0.845	0.991

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	101.8	101.8	101.4	101.4
2011	56880	101.9	102.0	101.6	101.6
2012	54729	101.9	101.9	101.6	101.6
2013	55097	102.1	102.1	101.7	101.8
2014	53874	101.4	101.5	101.0	101.1
2015	49431	102.4	102.3	101.9	101.9
2016	46538	102.1	101.7	101.7	101.3
2017	42183	100.9	100.5	100.5	100.2
2018	30844	100.9	101.1	100.5	100.8
2019	1119	101.3	101.7	101.0	101.4



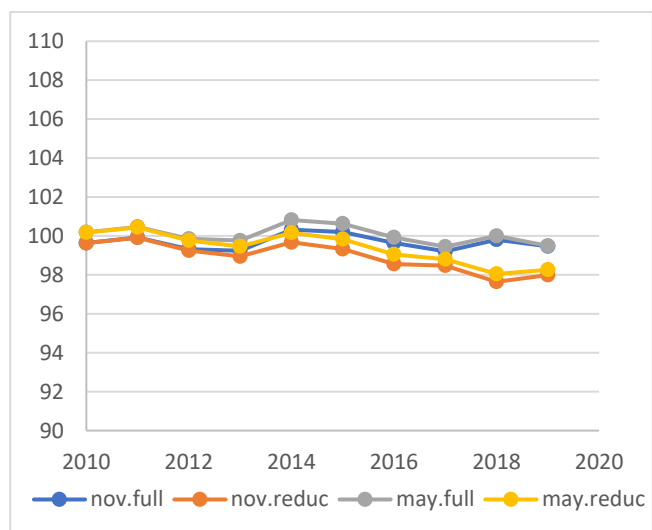
bv9

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56881	0.995	0.996	0.999
2012	54729	0.993	0.993	0.998
2013	55097	0.990	0.991	0.998
2014	53875	0.988	0.989	0.997
2015	49431	0.945	0.947	0.996
2016	46538	0.872	0.873	0.992
2017	42186	0.855	0.856	0.989
2018	30844	0.829	0.835	0.988
2019	1119	0.839	0.834	0.986

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	99.6	99.6	100.2	100.2
2011	56881	99.9	99.9	100.5	100.4
2012	54729	99.3	99.2	99.9	99.8
2013	55097	99.2	98.9	99.8	99.5
2014	53875	100.3	99.7	100.8	100.2
2015	49431	100.2	99.3	100.6	99.8
2016	46538	99.6	98.6	99.9	99.1
2017	42186	99.2	98.5	99.4	98.8
2018	30844	99.8	97.6	100.0	98.0
2019	1119	99.5	98.0	99.5	98.3



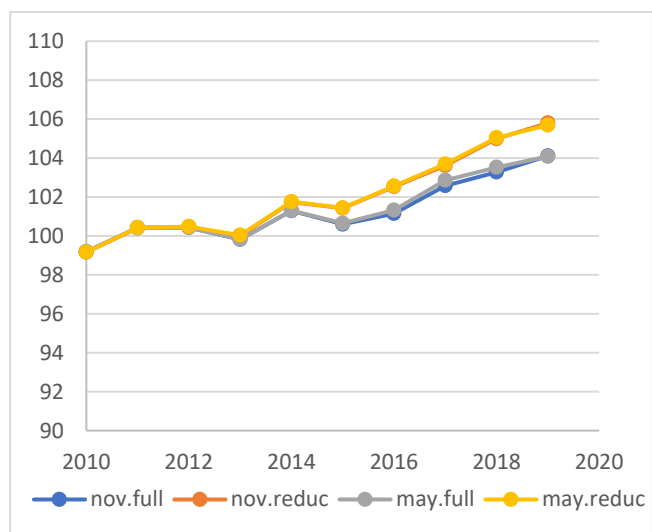
bv10

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62816	0.996	0.997	0.999
2011	56881	0.995	0.995	0.999
2012	54729	0.993	0.994	0.998
2013	55097	0.991	0.992	0.997
2014	53874	0.990	0.991	0.997
2015	49431	0.956	0.955	0.995
2016	46538	0.894	0.894	0.992
2017	42186	0.883	0.880	0.990
2018	30843	0.856	0.849	0.987
2019	1119	0.836	0.822	0.981

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62816	99.2	99.2	99.2	99.2
2011	56881	100.4	100.4	100.4	100.4
2012	54729	100.4	100.5	100.4	100.5
2013	55097	99.8	100.0	99.8	100.0
2014	53874	101.3	101.7	101.3	101.8
2015	49431	100.6	101.4	100.6	101.4
2016	46538	101.1	102.5	101.3	102.6
2017	42186	102.6	103.6	102.9	103.7
2018	30843	103.3	105.0	103.5	105.0
2019	1119	104.1	105.8	104.1	105.7



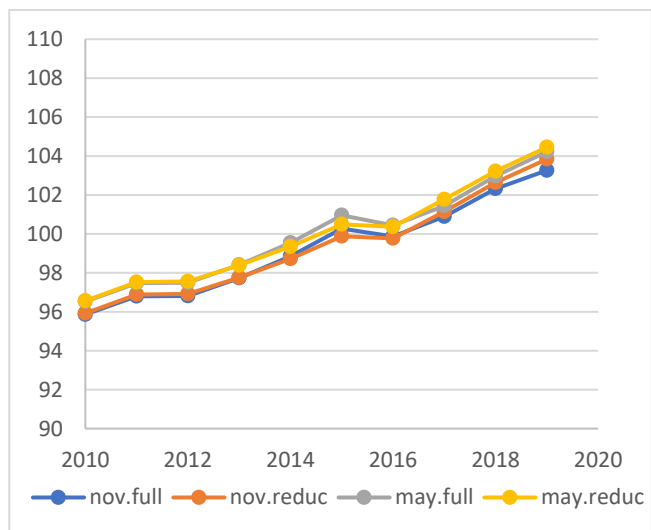
bv11

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.996	0.996	0.999
2011	56881	0.994	0.995	0.999
2012	54729	0.992	0.993	0.998
2013	55097	0.988	0.989	0.997
2014	53874	0.984	0.986	0.996
2015	49431	0.950	0.951	0.996
2016	46538	0.852	0.852	0.991
2017	42185	0.842	0.838	0.989
2018	30843	0.824	0.827	0.987
2019	1119	0.800	0.798	0.978

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	95.9	95.9	96.5	96.6
2011	56881	96.8	96.9	97.5	97.5
2012	54729	96.8	96.9	97.5	97.6
2013	55097	97.7	97.8	98.4	98.4
2014	53874	98.9	98.7	99.5	99.4
2015	49431	100.3	99.9	101.0	100.5
2016	46538	99.9	99.8	100.4	100.4
2017	42185	100.9	101.1	101.4	101.8
2018	30843	102.3	102.6	103.0	103.2
2019	1119	103.3	103.8	104.2	104.5

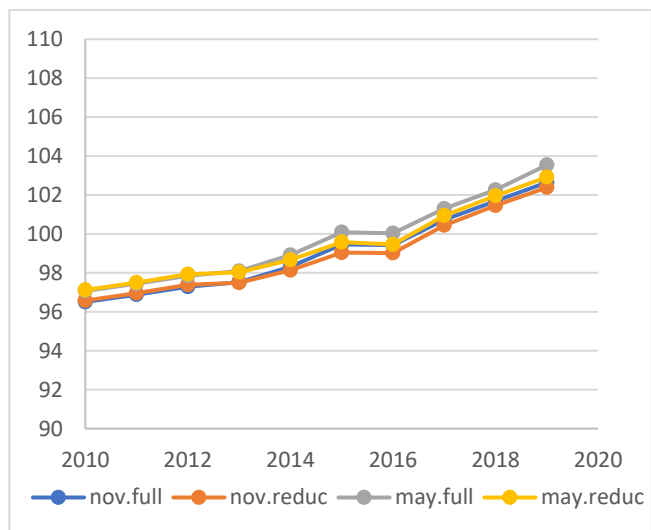
**bv12**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62816	0.996	0.997	0.999
2011	56881	0.994	0.995	0.999
2012	54729	0.992	0.993	0.998
2013	55097	0.989	0.990	0.998
2014	53874	0.988	0.989	0.997
2015	49431	0.945	0.946	0.996
2016	46538	0.861	0.867	0.991
2017	42185	0.827	0.831	0.989
2018	30843	0.849	0.850	0.987
2019	1119	0.849	0.840	0.987

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62816	96.5	96.6	97.1	97.1
2011	56881	96.9	97.0	97.4	97.5
2012	54729	97.3	97.4	97.8	97.9
2013	55097	97.5	97.5	98.1	98.0
2014	53874	98.3	98.1	98.9	98.7
2015	49431	99.5	99.0	100.1	99.6
2016	46538	99.4	99.0	100.0	99.5
2017	42185	100.7	100.4	101.3	100.9
2018	30843	101.7	101.5	102.3	102.0
2019	1119	102.6	102.4	103.5	102.9

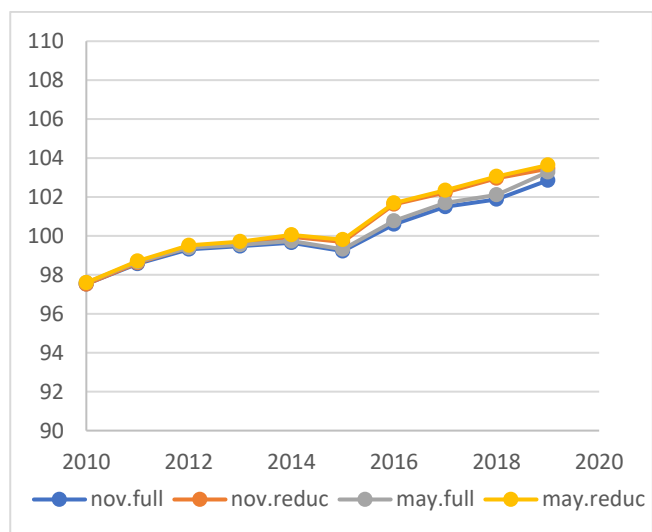
**bv13**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.996	0.997	0.999
2011	56881	0.994	0.994	0.999
2012	54729	0.991	0.992	0.998
2013	55097	0.988	0.990	0.997
2014	53874	0.984	0.986	0.996
2015	49431	0.943	0.947	0.994
2016	46538	0.869	0.875	0.991
2017	42184	0.850	0.855	0.986
2018	30842	0.784	0.786	0.983
2019	1119	0.826	0.817	0.971

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	97.5	97.5	97.6	97.6
2011	56881	98.6	98.6	98.7	98.7
2012	54729	99.3	99.4	99.4	99.5
2013	55097	99.5	99.6	99.5	99.7
2014	53874	99.7	100.0	99.7	100.1
2015	49431	99.2	99.7	99.3	99.8
2016	46538	100.6	101.6	100.8	101.7
2017	42184	101.5	102.2	101.7	102.3
2018	30842	101.9	103.0	102.1	103.1
2019	1119	102.9	103.5	103.3	103.6

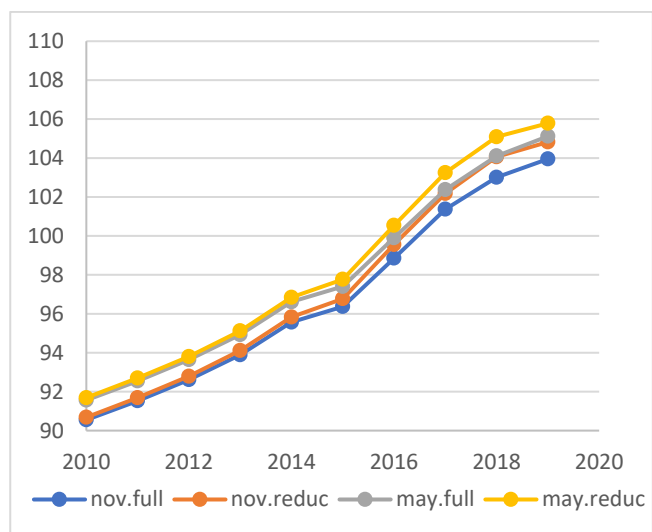
**bv16**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56880	0.995	0.995	0.999
2012	54729	0.993	0.994	0.998
2013	55093	0.990	0.991	0.997
2014	53872	0.986	0.988	0.996
2015	49431	0.948	0.950	0.995
2016	46537	0.873	0.871	0.993
2017	42182	0.852	0.851	0.991
2018	30840	0.833	0.838	0.989
2019	1119	0.815	0.834	0.988

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	90.5	90.7	91.6	91.7
2011	56880	91.5	91.7	92.5	92.7
2012	54729	92.6	92.8	93.6	93.8
2013	55093	93.9	94.1	94.9	95.1
2014	53872	95.6	95.8	96.6	96.8
2015	49431	96.4	96.8	97.4	97.8
2016	46537	98.9	99.6	99.9	100.5
2017	42182	101.4	102.2	102.4	103.2
2018	30840	103.0	104.1	104.1	105.1
2019	1119	104.0	104.8	105.1	105.8

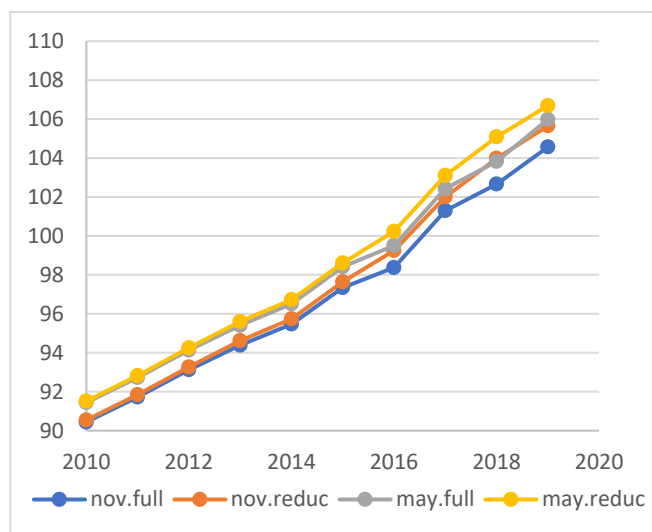
**bv17**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.998	0.998	0.999
2011	56880	0.996	0.997	0.999
2012	54729	0.994	0.994	0.999
2013	55093	0.992	0.992	0.998
2014	53872	0.990	0.991	0.997
2015	49431	0.965	0.965	0.997
2016	46537	0.911	0.909	0.994
2017	42182	0.895	0.896	0.993
2018	30839	0.877	0.873	0.991
2019	1119	0.878	0.874	0.988

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	90.4	90.5	91.4	91.5
2011	56880	91.7	91.8	92.7	92.8
2012	54729	93.1	93.3	94.1	94.2
2013	55093	94.4	94.6	95.4	95.6
2014	53872	95.5	95.7	96.5	96.7
2015	49431	97.3	97.6	98.4	98.6
2016	46537	98.4	99.2	99.5	100.2
2017	42182	101.3	102.0	102.4	103.1
2018	30839	102.7	104.0	103.8	105.1
2019	1119	104.6	105.7	106.0	106.7

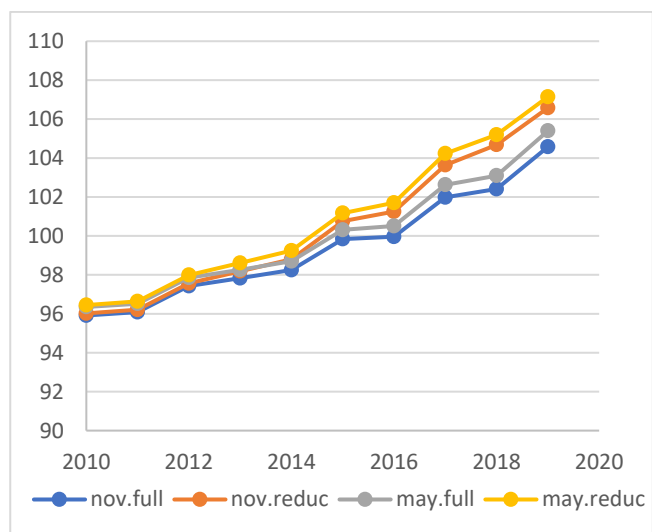
**bv18**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.996	0.997	0.999
2011	56880	0.994	0.995	0.999
2012	54729	0.992	0.992	0.999
2013	55093	0.988	0.989	0.998
2014	53872	0.986	0.987	0.997
2015	49431	0.950	0.951	0.996
2016	46537	0.871	0.872	0.993
2017	42182	0.857	0.856	0.992
2018	30838	0.856	0.858	0.991
2019	1119	0.832	0.843	0.984

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	95.9	96.0	96.4	96.4
2011	56880	96.1	96.2	96.5	96.6
2012	54729	97.4	97.6	97.9	98.0
2013	55093	97.8	98.2	98.3	98.6
2014	53872	98.2	98.8	98.7	99.2
2015	49431	99.8	100.8	100.3	101.2
2016	46537	100.0	101.2	100.5	101.7
2017	42182	102.0	103.6	102.6	104.2
2018	30838	102.4	104.7	103.1	105.2
2019	1119	104.6	106.6	105.4	107.1

**bv19**

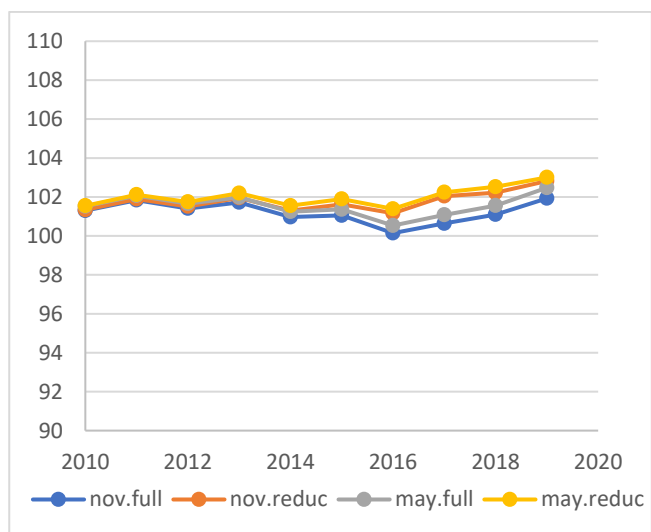
Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56880	0.995	0.996	0.999
2012	54729	0.993	0.994	0.999
2013	55093	0.990	0.991	0.998
2014	53872	0.988	0.989	0.997
2015	49431	0.954	0.956	0.996
2016	46537	0.879	0.881	0.993
2017	42182	0.853	0.853	0.991
2018	30839	0.853	0.848	0.990
2019	1119	0.855	0.853	0.987

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	101.3	101.3	101.5	101.6
2011	56880	101.8	101.9	102.1	102.1
2012	54729	101.4	101.5	101.7	101.7
2013	55093	101.7	102.0	102.0	102.2
2014	53872	101.0	101.3	101.2	101.6
2015	49431	101.1	101.6	101.4	101.9
2016	46537	100.1	101.2	100.5	101.4
2017	42182	100.6	102.0	101.1	102.2
2018	30839	101.1	102.2	101.6	102.5
2019	1119	101.9	102.8	102.5	103.0

Mælkeafgiftsfonden



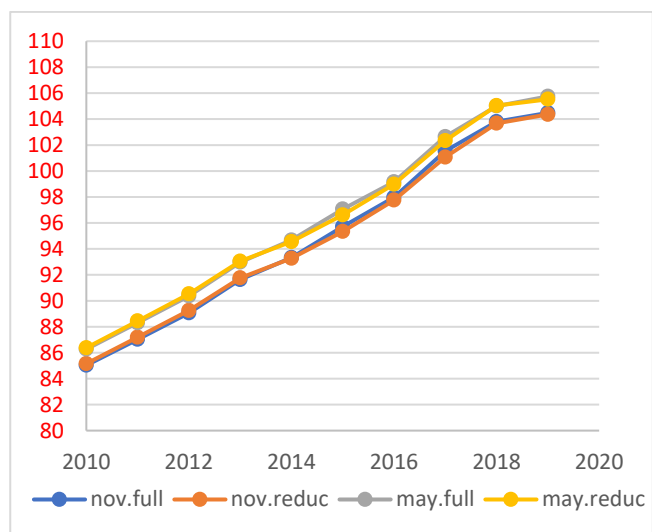
bv20

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.998	0.998	0.998
2011	56880	0.996	0.997	0.997
2012	54729	0.994	0.995	0.997
2013	55093	0.993	0.994	0.997
2014	53872	0.990	0.991	0.996
2015	49431	0.955	0.956	0.995
2016	46537	0.876	0.877	0.991
2017	42182	0.874	0.874	0.991
2018	30839	0.861	0.859	0.990
2019	1119	0.849	0.848	0.989

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	85.0	85.2	86.3	86.4
2011	56880	87.0	87.2	88.3	88.4
2012	54729	89.1	89.3	90.4	90.5
2013	55093	91.6	91.8	93.0	93.0
2014	53872	93.3	93.3	94.7	94.6
2015	49431	95.7	95.3	97.1	96.6
2016	46537	98.0	97.8	99.2	99.0
2017	42182	101.5	101.1	102.6	102.3
2018	30839	103.8	103.7	105.0	105.0
2019	1119	104.5	104.4	105.8	105.5



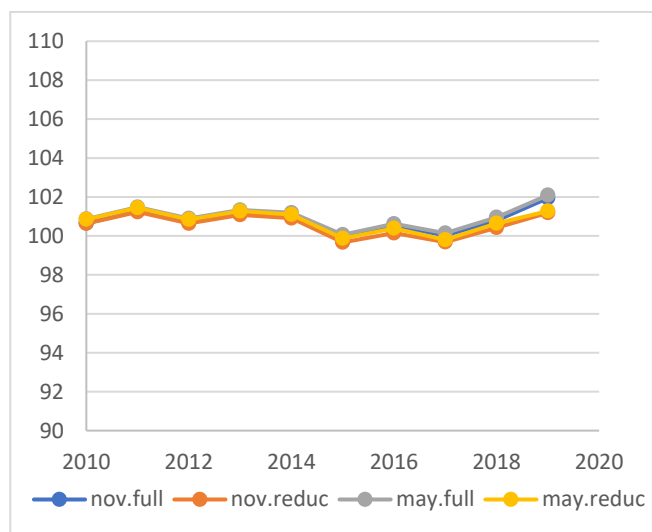
bv21

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.998	0.998	1.000
2011	56880	0.996	0.997	0.999
2012	54729	0.994	0.995	0.999
2013	55093	0.992	0.992	0.998
2014	53872	0.990	0.991	0.998
2015	49431	0.946	0.947	0.997
2016	46536	0.864	0.868	0.995
2017	42183	0.844	0.846	0.993
2018	30839	0.818	0.815	0.991
2019	1119	0.777	0.769	0.991

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	100.7	100.6	100.9	100.8
2011	56880	101.3	101.2	101.5	101.4
2012	54729	100.7	100.6	100.9	100.8
2013	55093	101.1	101.1	101.3	101.3
2014	53872	101.0	100.9	101.2	101.1
2015	49431	99.9	99.7	100.1	99.9
2016	46536	100.5	100.1	100.6	100.4
2017	42183	100.0	99.7	100.1	99.8
2018	30839	100.8	100.4	101.0	100.6
2019	1119	101.9	101.2	102.1	101.3



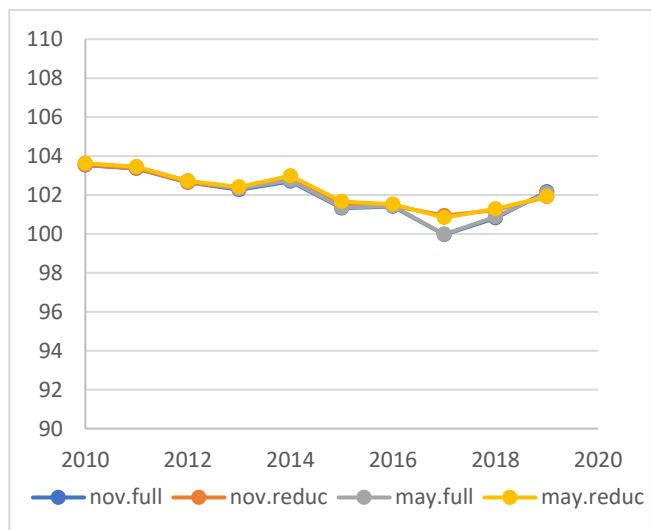
bv22

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62815	0.997	0.997	0.999
2011	56880	0.995	0.996	0.999
2012	54729	0.992	0.993	0.999
2013	55093	0.989	0.990	0.998
2014	53872	0.987	0.988	0.997
2015	49431	0.941	0.943	0.996
2016	46536	0.847	0.849	0.993
2017	42183	0.812	0.816	0.991
2018	30839	0.810	0.812	0.991
2019	1119	0.821	0.819	0.988

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62815	103.5	103.5	103.6	103.6
2011	56880	103.4	103.4	103.4	103.5
2012	54729	102.7	102.6	102.7	102.7
2013	55093	102.3	102.3	102.3	102.4
2014	53872	102.7	102.9	102.8	103.0
2015	49431	101.3	101.6	101.4	101.7
2016	46536	101.4	101.4	101.4	101.5
2017	42183	100.0	100.9	100.0	100.8
2018	30839	100.8	101.2	100.9	101.3
2019	1119	102.2	101.9	102.1	101.9



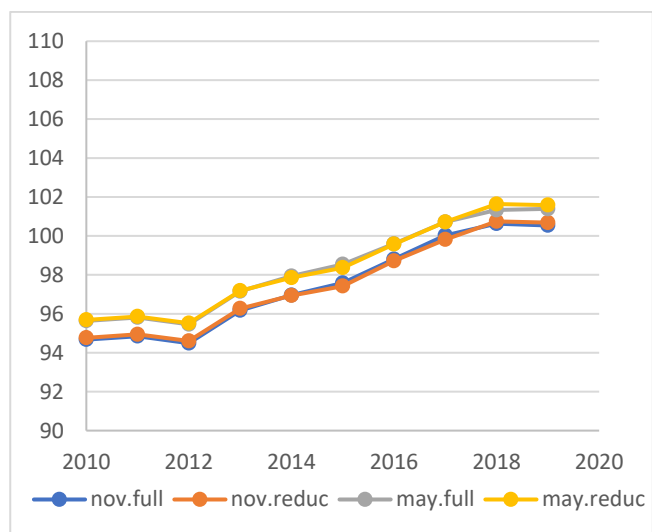
bv23

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62813	0.997	0.998	0.996
2011	56880	0.996	0.997	0.995
2012	54729	0.994	0.995	0.994
2013	55093	0.992	0.993	0.994
2014	53872	0.989	0.991	0.991
2015	49431	0.952	0.956	0.989
2016	46536	0.866	0.870	0.984
2017	42183	0.855	0.858	0.982
2018	30839	0.849	0.856	0.982
2019	1119	0.856	0.868	0.976

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62813	94.7	94.8	95.6	95.7
2011	56880	94.8	94.9	95.8	95.9
2012	54729	94.5	94.6	95.5	95.5
2013	55093	96.2	96.3	97.2	97.2
2014	53872	97.0	96.9	97.9	97.9
2015	49431	97.6	97.4	98.5	98.4
2016	46536	98.8	98.7	99.6	99.6
2017	42183	100.0	99.8	100.7	100.7
2018	30839	100.6	100.7	101.3	101.6
2019	1119	100.5	100.7	101.4	101.6

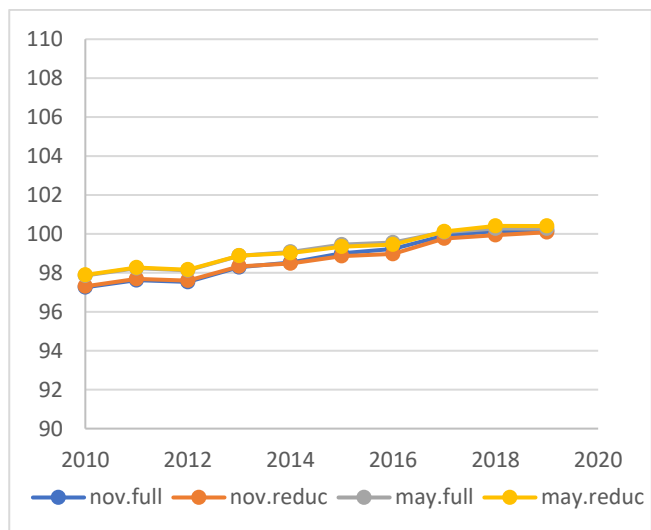
**bv24**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62814	0.997	0.998	0.996
2011	56880	0.996	0.997	0.994
2012	54729	0.994	0.995	0.992
2013	55094	0.992	0.993	0.991
2014	53872	0.990	0.991	0.991
2015	49431	0.956	0.959	0.990
2016	46536	0.870	0.879	0.983
2017	42183	0.857	0.867	0.979
2018	30839	0.863	0.873	0.977
2019	1119	0.890	0.900	0.972

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62814	97.3	97.3	97.9	97.9
2011	56880	97.6	97.7	98.2	98.3
2012	54729	97.5	97.6	98.1	98.2
2013	55094	98.3	98.3	98.9	98.9
2014	53872	98.5	98.5	99.1	99.0
2015	49431	99.0	98.9	99.5	99.3
2016	46536	99.2	99.0	99.6	99.5
2017	42183	99.9	99.8	100.1	100.1
2018	30839	100.1	99.9	100.3	100.4
2019	1119	100.2	100.1	100.3	100.4

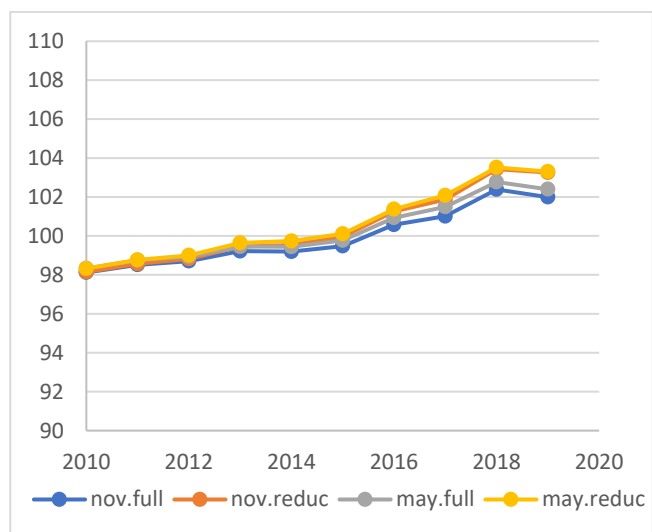
**bv25**

Correlations

Birth year	Number of cows	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	62814	0.996	0.997	0.995
2011	56880	0.995	0.996	0.994
2012	54729	0.992	0.994	0.992
2013	55093	0.988	0.991	0.991
2014	53872	0.985	0.989	0.989
2015	49431	0.948	0.953	0.983
2016	46536	0.857	0.873	0.977
2017	42182	0.855	0.870	0.975
2018	30839	0.831	0.847	0.972
2019	1119	0.828	0.836	0.968

Mean GEBV

Birth year	Number of cows	nov.full	nov.reduc	may.full	may.reduc
2010	62814	98.1	98.1	98.3	98.3
2011	56880	98.5	98.6	98.7	98.8
2012	54729	98.7	98.8	98.9	99.0
2013	55093	99.2	99.5	99.5	99.6
2014	53872	99.2	99.5	99.4	99.7
2015	49431	99.5	100.0	99.8	100.1
2016	46536	100.6	101.3	100.9	101.4
2017	42182	101.0	101.9	101.5	102.1
2018	30839	102.4	103.4	102.8	103.5
2019	1119	102.0	103.3	102.4	103.3



Bulls

Domestic AI Holstein bulls with genotype in May

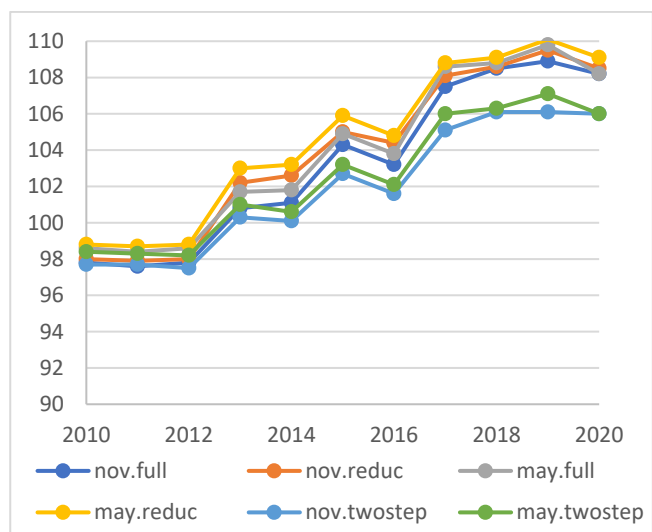
bv1

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.997	0.997	0.999
2011	167	0.998	0.998	0.999
2012	172	0.995	0.996	0.999
2013	120	0.932	0.932	0.999
2014	104	0.943	0.945	1.000
2015	80	0.925	0.914	0.999
2016	66	0.925	0.931	0.981
2017	65	0.936	0.966	0.965
2018	89	0.961	0.960	0.995
2019	60	0.920	0.947	0.979
2020	26	0.971	0.963	0.997

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	97.8	98.0	98.6	98.8	97.7	98.4
2011	167	97.6	97.9	98.4	98.7	97.7	98.3
2012	172	97.8	98.0	98.6	98.8	97.5	98.2
2013	120	100.8	102.2	101.7	103.0	100.3	101.0
2014	104	101.1	102.6	101.8	103.2	100.1	100.6
2015	80	104.3	105.0	104.9	105.9	102.7	103.2
2016	66	103.2	104.4	103.8	104.8	101.6	102.1
2017	65	107.5	108.1	108.6	108.8	105.1	106.0
2018	89	108.5	108.6	108.8	109.1	106.1	106.3
2019	60	108.9	109.5	109.8	110.1	106.1	107.1
2020	26	108.2	108.5	108.2	109.1	106.0	106.0

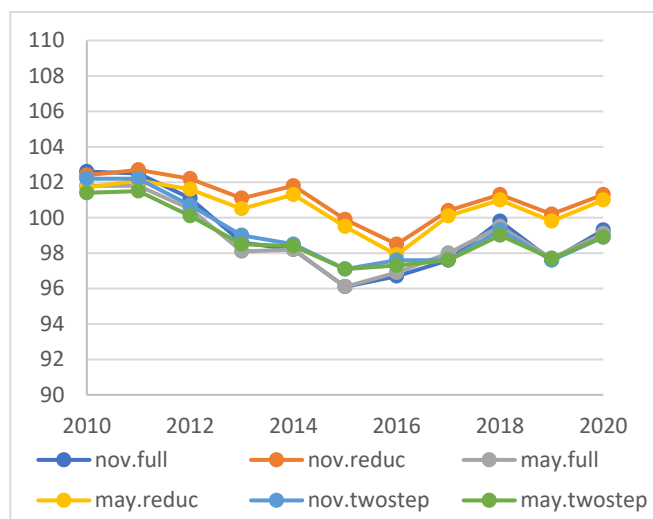
**bv2**

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.999
2011	167	0.994	0.994	0.999
2012	172	0.991	0.992	0.999
2013	120	0.823	0.830	0.998
2014	104	0.880	0.886	0.998
2015	80	0.885	0.879	0.997
2016	66	0.831	0.853	0.964
2017	65	0.869	0.924	0.947
2018	89	0.901	0.919	0.987
2019	60	0.939	0.954	0.983
2020	26	0.970	0.965	0.995

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	102.6	102.4	101.8	101.7	102.2	101.4
2011	167	102.5	102.7	101.8	102.1	102.2	101.5
2012	172	101.1	102.2	100.5	101.6	100.7	100.1
2013	120	98.6	101.1	98.1	100.5	99.0	98.5
2014	104	98.2	101.8	98.2	101.3	98.5	98.4
2015	80	96.1	99.9	96.1	99.5	97.1	97.1
2016	66	96.7	98.5	96.9	97.9	97.6	97.3
2017	65	97.6	100.4	98.0	100.1	97.6	97.6
2018	89	99.8	101.3	99.5	101.0	99.3	99.0
2019	60	97.6	100.2	97.7	99.8	97.6	97.7
2020	26	99.3	101.3	99.1	101.0	98.9	98.9

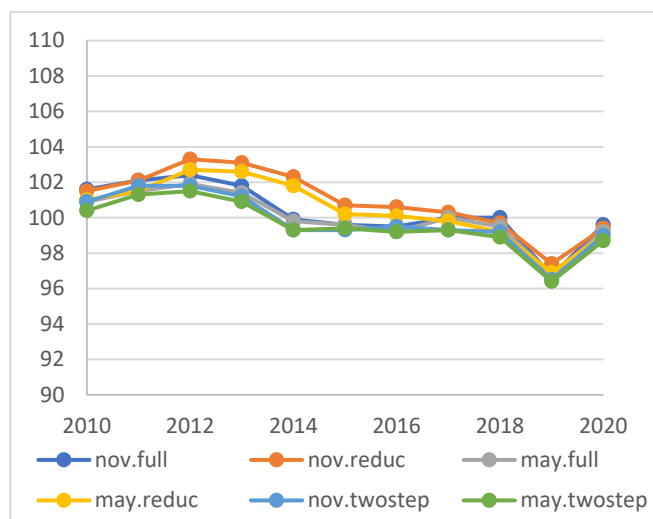
**bv3**

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.994	0.995	0.999
2011	167	0.993	0.993	0.999
2012	172	0.993	0.993	0.999
2013	120	0.872	0.872	0.998
2014	104	0.847	0.856	0.997
2015	80	0.851	0.839	0.995
2016	66	0.878	0.876	0.975
2017	65	0.883	0.946	0.948
2018	89	0.941	0.948	0.993
2019	60	0.910	0.944	0.976
2020	26	0.976	0.975	0.991

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	101.6	101.5	100.9	101.0	100.9	100.4
2011	167	102.1	102.1	101.5	101.5	101.8	101.3
2012	172	102.4	103.3	101.9	102.7	101.8	101.5
2013	120	101.8	103.1	101.4	102.6	101.2	100.9
2014	104	99.9	102.3	99.8	101.8	99.3	99.3
2015	80	99.6	100.7	99.6	100.2	99.3	99.4
2016	66	99.5	100.6	99.2	100.1	99.5	99.2
2017	65	100.0	100.3	100.0	99.8	99.3	99.3
2018	89	100.0	99.7	99.5	99.2	99.2	98.9
2019	60	96.7	97.4	96.8	96.9	96.5	96.4
2020	26	99.6	99.4	99.2	99.0	99.0	98.7



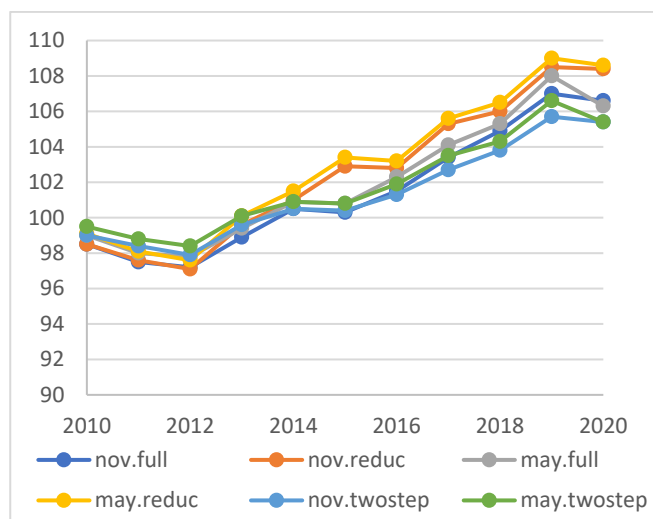
bv4

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.999
2011	167	0.994	0.995	0.999
2012	172	0.992	0.993	0.999
2013	120	0.865	0.870	0.998
2014	104	0.919	0.921	0.998
2015	80	0.892	0.891	0.998
2016	66	0.839	0.865	0.966
2017	65	0.872	0.914	0.927
2018	89	0.911	0.913	0.990
2019	60	0.918	0.936	0.964
2020	26	0.905	0.918	0.984

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	98.5	98.5	99.0	99.1	99.0	99.5
2011	167	97.5	97.6	98.0	98.1	98.4	98.8
2012	172	97.2	97.1	97.8	97.6	97.9	98.4
2013	120	98.9	99.6	99.4	100.1	99.6	100.1
2014	104	100.5	101.0	100.9	101.5	100.5	100.9
2015	80	100.3	102.9	100.8	103.4	100.4	100.8
2016	66	101.5	102.8	102.3	103.2	101.3	101.9
2017	65	103.4	105.3	104.1	105.6	102.7	103.5
2018	89	104.9	106.0	105.3	106.5	103.8	104.3
2019	60	107.0	108.5	108.0	109.0	105.7	106.6
2020	26	106.6	108.4	106.3	108.6	105.4	105.4

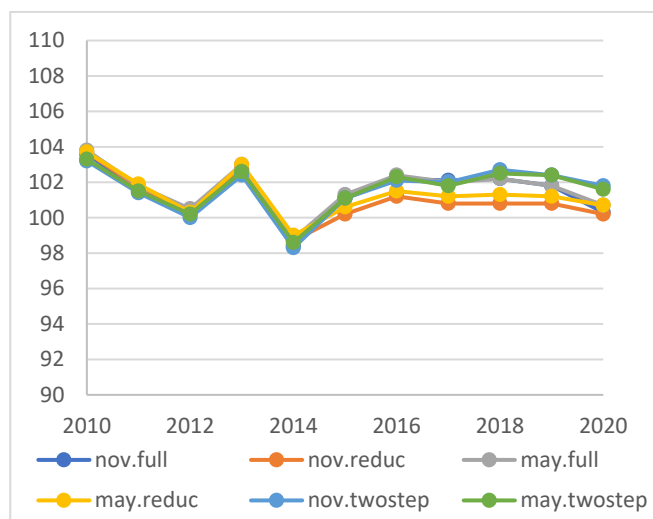
**bv5**

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.986	0.989	0.998
2011	167	0.987	0.988	0.997
2012	172	0.992	0.992	0.999
2013	120	0.862	0.852	0.998
2014	104	0.876	0.868	0.998
2015	80	0.845	0.849	0.997
2016	66	0.846	0.888	0.976
2017	65	0.887	0.924	0.963
2018	89	0.863	0.885	0.982
2019	60	0.899	0.928	0.979
2020	26	0.881	0.886	0.992

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	103.6	103.7	103.8	103.7	103.2	103.3
2011	167	101.6	101.7	101.8	101.9	101.4	101.5
2012	172	100.3	100.2	100.5	100.3	100.0	100.2
2013	120	102.7	102.7	103.0	103.0	102.4	102.6
2014	104	98.4	98.7	98.8	99.0	98.3	98.6
2015	80	101.1	100.2	101.3	100.6	101.1	101.1
2016	66	102.2	101.2	102.4	101.5	102.1	102.3
2017	65	102.1	100.8	102.0	101.2	102.0	101.8
2018	89	102.2	100.8	102.2	101.3	102.7	102.5
2019	60	101.8	100.8	101.8	101.2	102.4	102.4
2020	26	100.3	100.2	100.7	100.7	101.8	101.6



bv6

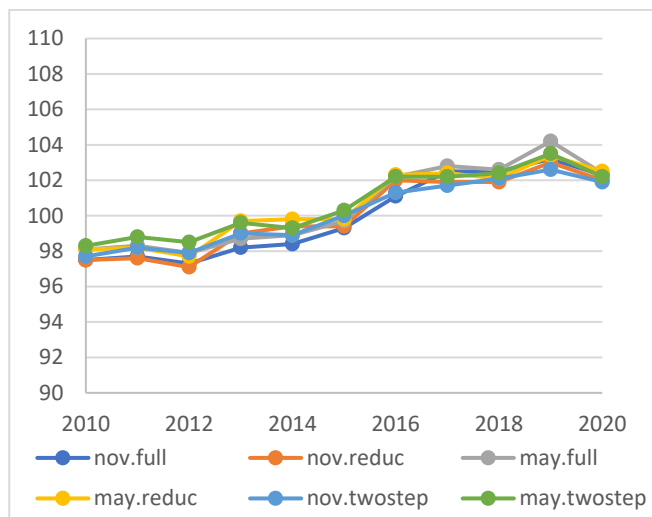
Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.994	0.995	0.999
2011	167	0.995	0.996	0.999
2012	172	0.995	0.996	0.999
2013	120	0.890	0.891	0.999
2014	104	0.923	0.925	0.999
2015	80	0.904	0.907	0.997
2016	66	0.888	0.915	0.971
2017	65	0.947	0.970	0.969
2018	89	0.940	0.931	0.992
2019	60	0.932	0.969	0.970
2020	26	0.969	0.965	0.990

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	97.5	97.5	98.1	98.1	97.7	98.3
2011	167	97.7	97.6	98.3	98.2	98.2	98.8
2012	172	97.3	97.1	97.9	97.7	97.9	98.5
2013	120	98.2	99.0	98.7	99.7	99.0	99.6
2014	104	98.4	99.4	98.9	99.8	98.9	99.3
2015	80	99.3	99.4	99.7	99.8	100.0	100.3
2016	66	101.1	102.0	102.2	102.3	101.3	102.2
2017	65	102.5	101.9	102.8	102.4	101.7	102.2
2018	89	102.5	101.9	102.6	102.1	102.1	102.4
2019	60	103.2	103.0	104.2	103.4	102.6	103.5
2020	26	102.3	102.0	102.4	102.5	101.9	102.2

Mælkeafgiftsfonden



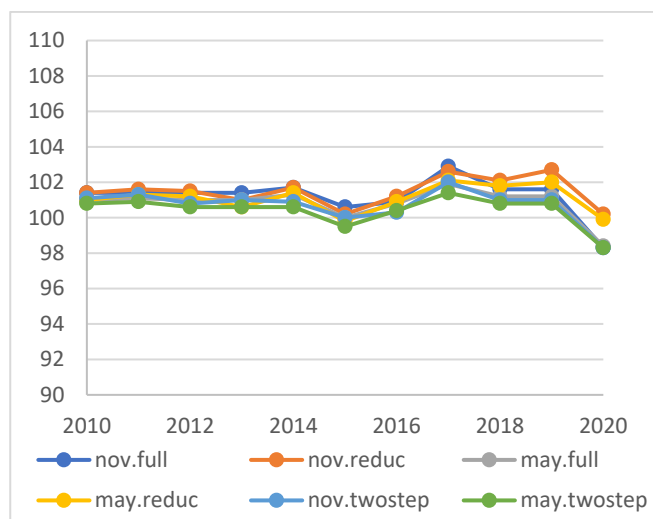
bv7

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.996	0.996	0.999
2011	167	0.996	0.996	0.999
2012	172	0.996	0.996	0.999
2013	120	0.930	0.936	0.999
2014	104	0.897	0.899	0.999
2015	80	0.901	0.898	0.998
2016	66	0.925	0.934	0.986
2017	65	0.933	0.958	0.972
2018	89	0.953	0.957	0.992
2019	60	0.957	0.957	0.983
2020	26	0.960	0.966	0.992

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	101.4	101.4	101.0	101.0	101.1	100.8
2011	167	101.4	101.6	101.1	101.3	101.3	100.9
2012	172	101.4	101.5	101.0	101.2	100.8	100.6
2013	120	101.4	101.0	101.0	100.6	101.0	100.6
2014	104	101.7	101.7	101.3	101.4	100.9	100.6
2015	80	100.6	100.2	100.0	99.8	100.0	99.5
2016	66	100.9	101.2	100.8	100.9	100.3	100.4
2017	65	102.9	102.6	101.9	102.1	102.0	101.4
2018	89	101.6	102.1	101.2	101.8	101.0	100.8
2019	60	101.6	102.7	101.2	102.0	101.0	100.8
2020	26	98.3	100.2	98.4	99.9	98.3	98.3



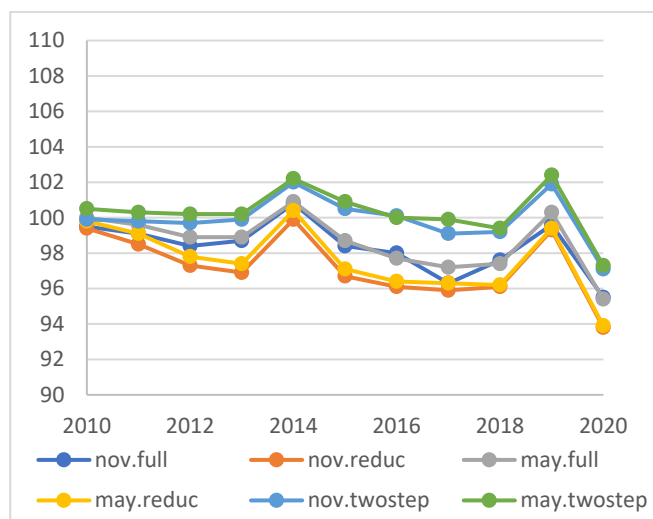
bv9

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.999
2011	167	0.993	0.993	0.998
2012	172	0.990	0.992	0.998
2013	120	0.900	0.900	0.999
2014	104	0.892	0.890	0.997
2015	80	0.870	0.871	0.995
2016	66	0.838	0.852	0.979
2017	65	0.903	0.947	0.939
2018	89	0.930	0.929	0.991
2019	60	0.949	0.967	0.976
2020	26	0.942	0.941	0.991

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	99.5	99.4	100.0	99.8	99.9	100.5
2011	167	99.1	98.5	99.6	99.1	99.8	100.3
2012	172	98.4	97.3	98.9	97.8	99.7	100.2
2013	120	98.7	96.9	98.9	97.4	99.9	100.2
2014	104	100.8	99.9	100.9	100.4	102.0	102.2
2015	80	98.4	96.7	98.7	97.1	100.5	100.9
2016	66	98.0	96.1	97.7	96.4	100.1	100.0
2017	65	96.3	95.9	97.2	96.3	99.1	99.9
2018	89	97.6	96.1	97.4	96.2	99.2	99.4
2019	60	99.6	99.3	100.3	99.4	101.9	102.4
2020	26	95.5	93.8	95.4	93.9	97.1	97.3



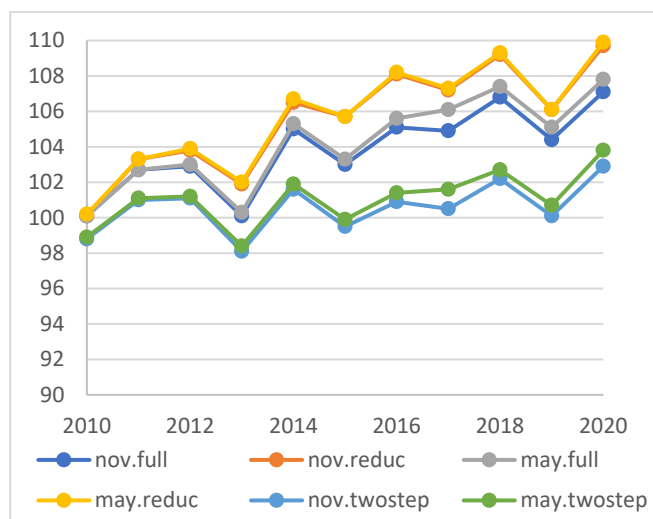
bv10

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.992	0.993	0.998
2011	167	0.993	0.994	0.999
2012	172	0.989	0.991	0.998
2013	120	0.872	0.873	0.998
2014	104	0.910	0.912	0.998
2015	80	0.887	0.881	0.997
2016	66	0.825	0.818	0.968
2017	65	0.872	0.918	0.938
2018	89	0.903	0.896	0.982
2019	60	0.920	0.942	0.954
2020	26	0.952	0.963	0.992

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	100.1	100.1	100.1	100.2	98.8	98.9
2011	167	102.7	103.3	102.7	103.3	101.0	101.1
2012	172	102.9	103.8	103.0	103.9	101.1	101.2
2013	120	100.1	101.9	100.3	102.0	98.1	98.4
2014	104	105.0	106.5	105.3	106.7	101.6	101.9
2015	80	103.0	105.7	103.3	105.7	99.5	99.9
2016	66	105.1	108.1	105.6	108.2	100.9	101.4
2017	65	104.9	107.2	106.1	107.3	100.5	101.6
2018	89	106.8	109.2	107.4	109.3	102.2	102.7
2019	60	104.4	106.1	105.1	106.1	100.1	100.7
2020	26	107.1	109.7	107.8	109.9	102.9	103.8

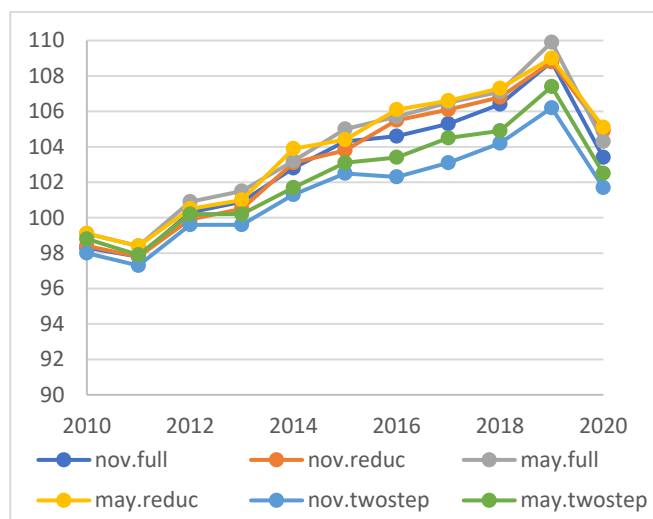
**bv11**

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.985	0.988	0.997
2011	167	0.993	0.992	0.999
2012	172	0.983	0.986	0.997
2013	120	0.878	0.874	0.998
2014	104	0.891	0.891	0.998
2015	80	0.896	0.887	0.996
2016	66	0.730	0.755	0.961
2017	65	0.834	0.866	0.958
2018	89	0.850	0.870	0.983
2019	60	0.870	0.871	0.975
2020	26	0.904	0.910	0.983

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	98.3	98.4	99.1	99.1	98.0	98.8
2011	167	97.8	97.8	98.4	98.4	97.3	97.9
2012	172	100.3	99.9	100.9	100.5	99.6	100.2
2013	120	100.9	100.5	101.5	101.0	99.6	100.2
2014	104	102.8	103.1	103.2	103.9	101.3	101.7
2015	80	104.3	103.8	105.0	104.4	102.5	103.1
2016	66	104.6	105.5	105.7	106.1	102.3	103.4
2017	65	105.3	106.1	106.5	106.6	103.1	104.5
2018	89	106.4	106.8	107.1	107.3	104.2	104.9
2019	60	108.8	108.8	109.9	109.0	106.2	107.4
2020	26	103.4	104.9	104.3	105.1	101.7	102.5



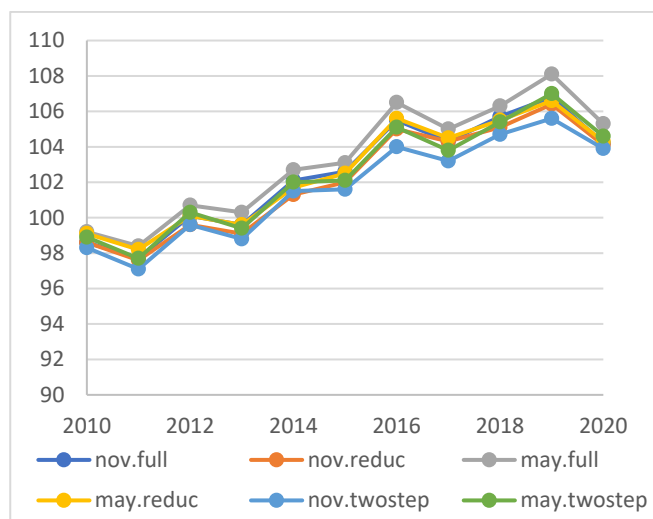
bv12

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.990	0.991	0.998
2011	167	0.992	0.993	0.999
2012	172	0.991	0.992	0.999
2013	120	0.869	0.868	0.998
2014	104	0.856	0.864	0.998
2015	80	0.874	0.875	0.997
2016	66	0.894	0.883	0.976
2017	65	0.890	0.934	0.953
2018	89	0.912	0.926	0.989
2019	60	0.911	0.928	0.974
2020	26	0.961	0.966	0.992

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	98.6	98.6	99.2	99.1	98.3	98.9
2011	167	97.7	97.6	98.4	98.2	97.1	97.7
2012	172	100.1	99.6	100.7	100.1	99.6	100.3
2013	120	99.6	99.1	100.3	99.6	98.8	99.4
2014	104	102.1	101.3	102.7	101.7	101.5	102.0
2015	80	102.6	102.0	103.1	102.5	101.6	102.1
2016	66	105.5	105.0	106.5	105.6	104.0	105.1
2017	65	104.3	104.3	105.0	104.5	103.2	103.8
2018	89	105.7	105.1	106.3	105.5	104.7	105.4
2019	60	106.8	106.4	108.1	106.6	105.6	107.0
2020	26	104.2	104.1	105.3	104.3	103.9	104.6



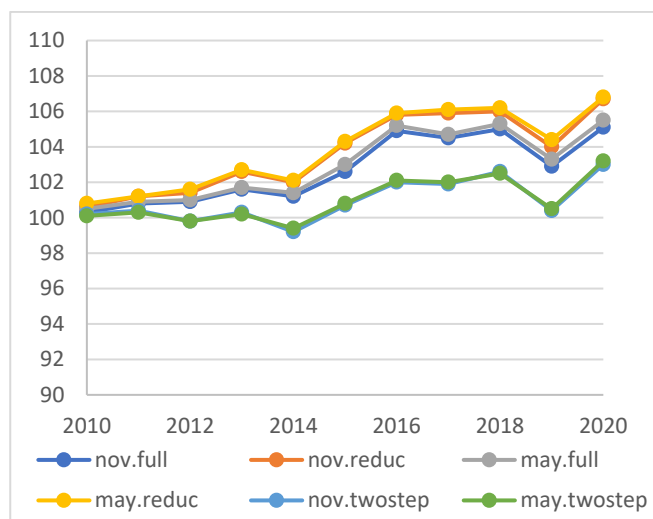
bv13

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.990	0.992	0.998
2011	167	0.991	0.992	0.997
2012	172	0.990	0.990	0.998
2013	120	0.876	0.875	0.997
2014	104	0.883	0.888	0.996
2015	80	0.835	0.828	0.993
2016	66	0.809	0.828	0.944
2017	65	0.898	0.914	0.946
2018	89	0.875	0.880	0.983
2019	60	0.916	0.926	0.963
2020	26	0.933	0.916	0.989

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	100.3	100.6	100.5	100.8	100.2	100.1
2011	167	100.8	101.2	100.9	101.2	100.4	100.3
2012	172	100.9	101.4	101.0	101.6	99.8	99.8
2013	120	101.6	102.6	101.7	102.7	100.3	100.2
2014	104	101.2	102.0	101.4	102.1	99.2	99.4
2015	80	102.6	104.2	103.0	104.3	100.7	100.8
2016	66	104.9	105.8	105.2	105.9	102.0	102.1
2017	65	104.5	105.9	104.7	106.1	101.9	102.0
2018	89	105.0	106.0	105.3	106.2	102.6	102.5
2019	60	102.9	104.0	103.3	104.4	100.4	100.5
2020	26	105.1	106.7	105.5	106.8	103.0	103.2



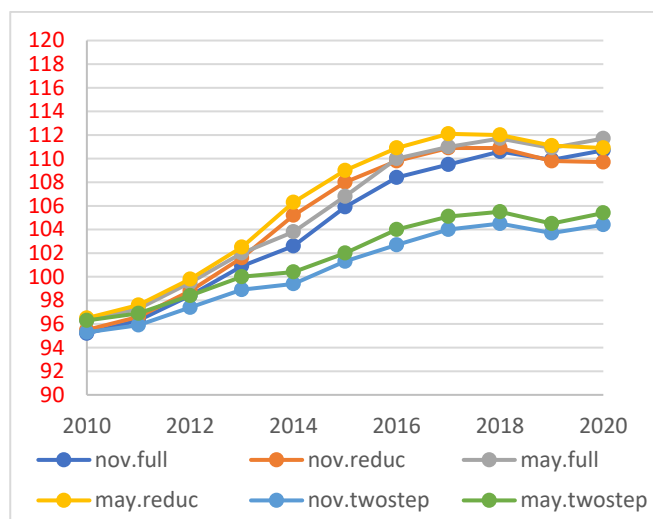
bv16

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.999
2011	167	0.992	0.993	0.999
2012	172	0.989	0.991	0.998
2013	120	0.879	0.872	0.998
2014	104	0.899	0.888	0.998
2015	80	0.888	0.893	0.998
2016	66	0.825	0.848	0.986
2017	65	0.892	0.950	0.955
2018	89	0.884	0.903	0.984
2019	60	0.907	0.942	0.978
2020	26	0.949	0.951	0.993

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	95.2	95.5	96.3	96.5	95.3	96.3
2011	167	96.3	96.6	97.3	97.6	95.9	96.9
2012	172	98.4	98.8	99.5	99.8	97.4	98.4
2013	120	100.9	101.6	102.0	102.5	98.9	100.0
2014	104	102.6	105.2	103.8	106.3	99.4	100.4
2015	80	105.9	108.0	106.8	109.0	101.3	102.0
2016	66	108.4	109.8	110.0	110.9	102.7	104.0
2017	65	109.5	110.9	111.0	112.1	104.0	105.1
2018	89	110.6	110.9	111.7	112.0	104.5	105.5
2019	60	109.9	109.8	110.9	111.1	103.7	104.5
2020	26	110.7	109.7	111.7	110.9	104.4	105.4



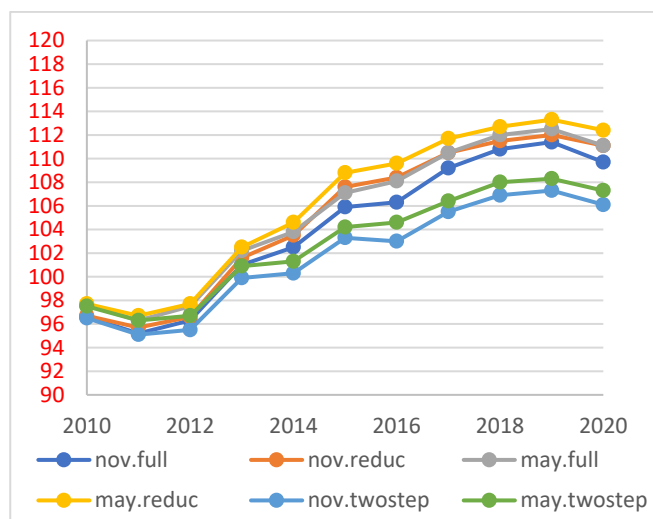
bv17

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.999
2011	167	0.991	0.991	0.999
2012	172	0.993	0.994	0.999
2013	120	0.892	0.886	0.999
2014	104	0.922	0.922	0.999
2015	80	0.848	0.846	0.996
2016	66	0.866	0.879	0.970
2017	65	0.863	0.924	0.959
2018	89	0.932	0.930	0.991
2019	60	0.949	0.960	0.987
2020	26	0.954	0.950	0.988

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	96.6	96.7	97.6	97.7	96.5	97.5
2011	167	95.2	95.7	96.3	96.7	95.1	96.3
2012	172	96.3	96.6	97.5	97.7	95.5	96.7
2013	120	101.0	101.6	102.2	102.5	99.9	100.9
2014	104	102.5	103.5	103.8	104.6	100.3	101.3
2015	80	105.9	107.6	107.1	108.8	103.3	104.2
2016	66	106.3	108.4	108.1	109.6	103.0	104.6
2017	65	109.2	110.5	110.5	111.7	105.5	106.4
2018	89	110.8	111.5	112.0	112.7	106.9	108.0
2019	60	111.4	112.0	112.5	113.3	107.3	108.3
2020	26	109.7	111.1	111.1	112.4	106.1	107.3



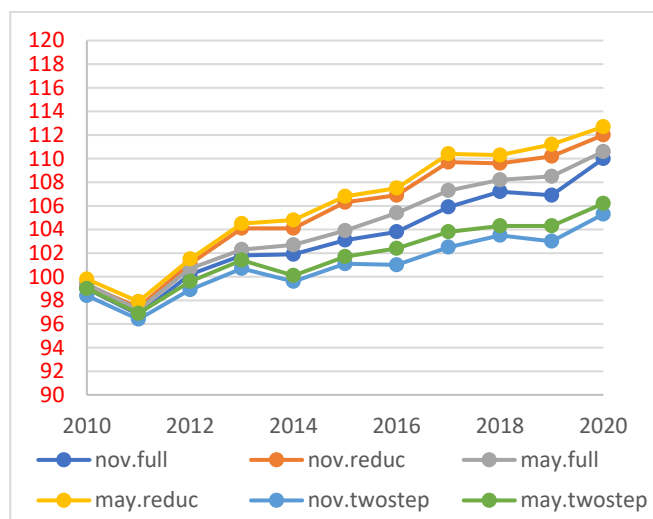
bv18

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.989	0.989	0.998
2011	167	0.987	0.988	0.998
2012	172	0.988	0.991	0.998
2013	120	0.885	0.883	0.998
2014	104	0.853	0.860	0.998
2015	80	0.890	0.893	0.997
2016	66	0.837	0.872	0.973
2017	65	0.874	0.919	0.955
2018	89	0.912	0.920	0.987
2019	60	0.908	0.943	0.966
2020	26	0.963	0.968	0.993

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	99.0	99.3	99.4	99.8	98.4	99.0
2011	167	96.8	97.4	97.2	97.9	96.4	96.9
2012	172	100.2	101.1	100.7	101.5	98.9	99.6
2013	120	101.8	104.1	102.3	104.5	100.7	101.4
2014	104	101.9	104.1	102.7	104.8	99.6	100.1
2015	80	103.1	106.3	103.9	106.8	101.1	101.7
2016	66	103.8	106.9	105.4	107.5	101.0	102.4
2017	65	105.9	109.7	107.3	110.4	102.5	103.8
2018	89	107.2	109.6	108.2	110.3	103.5	104.3
2019	60	106.9	110.2	108.5	111.2	103.0	104.3
2020	26	110.0	112.0	110.6	112.7	105.3	106.2



bv19

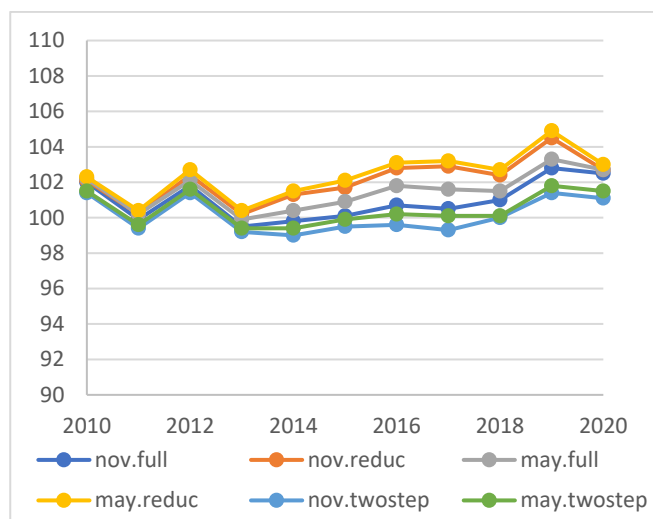
Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.993	0.999
2011	167	0.994	0.994	0.999
2012	172	0.994	0.994	0.999
2013	120	0.911	0.912	0.998
2014	104	0.894	0.898	0.998
2015	80	0.862	0.854	0.998
2016	66	0.833	0.843	0.980
2017	65	0.861	0.928	0.931
2018	89	0.909	0.915	0.991
2019	60	0.903	0.931	0.963
2020	26	0.910	0.917	0.989

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	102.0	102.1	102.2	102.3	101.4	101.5
2011	167	99.9	100.2	100.2	100.4	99.4	99.6
2012	172	101.8	102.4	102.1	102.7	101.4	101.6
2013	120	99.5	100.2	99.9	100.4	99.2	99.4
2014	104	99.8	101.3	100.4	101.5	99.0	99.4
2015	80	100.1	101.7	100.9	102.1	99.5	99.9
2016	66	100.7	102.8	101.8	103.1	99.6	100.2
2017	65	100.5	102.9	101.6	103.2	99.3	100.1
2018	89	101.0	102.4	101.5	102.7	100.0	100.1
2019	60	102.8	104.5	103.3	104.9	101.4	101.8
2020	26	102.5	102.7	102.7	103.0	101.1	101.5

Mælkeafgiftsfonden



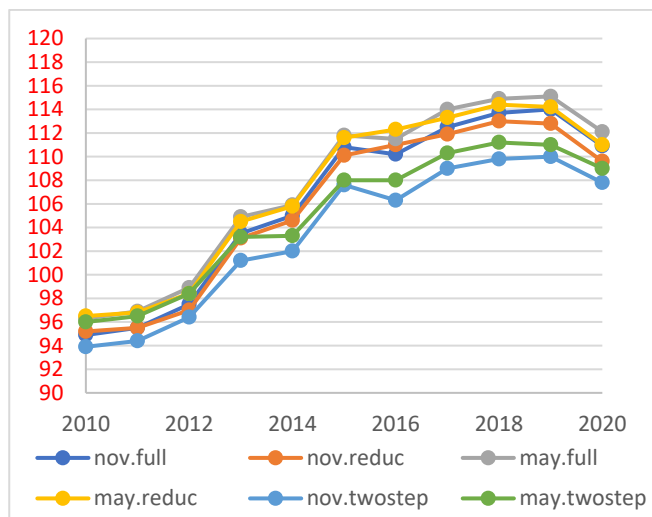
bv20

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.997	0.997	0.999
2011	167	0.995	0.996	0.998
2012	172	0.991	0.993	0.998
2013	120	0.906	0.908	0.997
2014	104	0.935	0.929	0.998
2015	80	0.906	0.903	0.998
2016	66	0.842	0.851	0.984
2017	65	0.930	0.959	0.971
2018	89	0.934	0.935	0.993
2019	60	0.948	0.954	0.976
2020	26	0.930	0.948	0.986

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	94.9	95.2	96.3	96.5	93.9	96.0
2011	167	95.5	95.5	96.9	96.8	94.4	96.5
2012	172	97.5	97.0	98.9	98.4	96.4	98.4
2013	120	103.5	103.1	104.9	104.5	101.2	103.2
2014	104	105.0	104.6	105.9	105.8	102.0	103.3
2015	80	110.8	110.1	111.8	111.6	107.6	108.0
2016	66	110.2	111.0	111.5	112.3	106.3	108.0
2017	65	112.5	111.9	114.0	113.3	109.0	110.3
2018	89	113.7	113.0	114.9	114.4	109.8	111.2
2019	60	114.0	112.8	115.1	114.2	110.0	111.0
2020	26	110.9	109.6	112.1	111.0	107.8	109.0

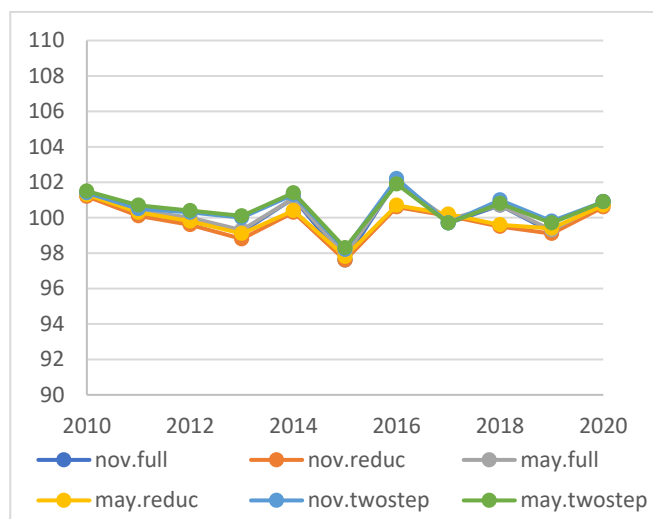
**bv21**

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.997	0.997	0.999
2011	167	0.996	0.996	0.999
2012	172	0.995	0.996	0.999
2013	120	0.932	0.932	0.999
2014	104	0.924	0.924	0.999
2015	80	0.861	0.855	0.998
2016	66	0.819	0.818	0.977
2017	65	0.869	0.915	0.954
2018	89	0.918	0.914	0.993
2019	60	0.951	0.965	0.986
2020	26	0.967	0.964	0.993

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	101.3	101.2	101.4	101.3	101.4	101.5
2011	167	100.2	100.1	100.4	100.3	100.5	100.7
2012	172	99.8	99.6	100.0	99.8	100.3	100.4
2013	120	99.2	98.8	99.3	99.1	100.0	100.1
2014	104	101.1	100.3	101.1	100.4	101.3	101.4
2015	80	97.6	97.6	97.9	97.8	98.2	98.3
2016	66	102.1	100.6	102.0	100.7	102.2	101.9
2017	65	99.7	100.1	99.9	100.2	99.7	99.7
2018	89	100.7	99.5	100.7	99.6	101.0	100.8
2019	60	99.2	99.1	99.3	99.4	99.8	99.7
2020	26	100.9	100.6	100.8	100.7	100.9	100.9



bv22

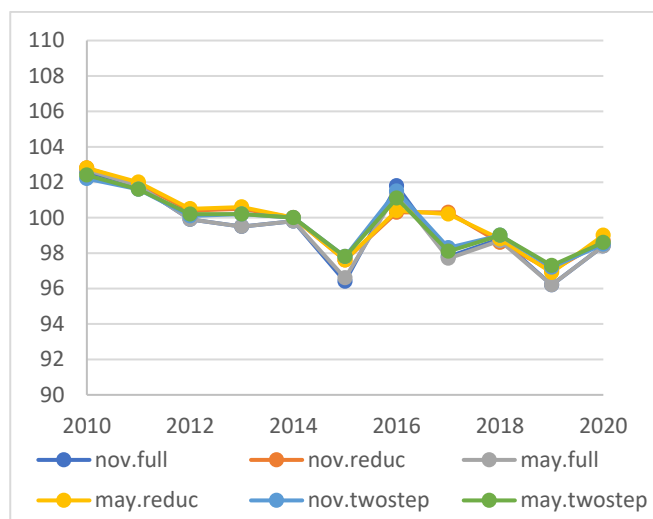
Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.993	0.994	0.998
2011	167	0.990	0.992	0.998
2012	172	0.991	0.993	0.998
2013	120	0.879	0.878	0.999
2014	104	0.912	0.916	0.999
2015	80	0.861	0.862	0.997
2016	66	0.834	0.857	0.978
2017	65	0.919	0.932	0.954
2018	89	0.911	0.923	0.985
2019	60	0.914	0.924	0.975
2020	26	0.907	0.925	0.991

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	102.6	102.8	102.7	102.8	102.2	102.4
2011	167	101.8	101.9	101.8	102.0	101.6	101.6
2012	172	99.9	100.4	99.9	100.5	100.1	100.2
2013	120	99.5	100.5	99.5	100.6	100.2	100.2
2014	104	99.8	100.0	99.8	100.0	100.0	100.0
2015	80	96.4	97.6	96.6	97.6	97.8	97.8
2016	66	101.8	100.3	101.4	100.4	101.5	101.1
2017	65	97.8	100.3	97.7	100.2	98.3	98.1
2018	89	98.8	98.6	98.7	98.8	99.0	99.0
2019	60	96.2	97.0	96.2	96.9	97.2	97.3
2020	26	98.4	98.7	98.4	99.0	98.5	98.6

Mælkeafgiftsfonden



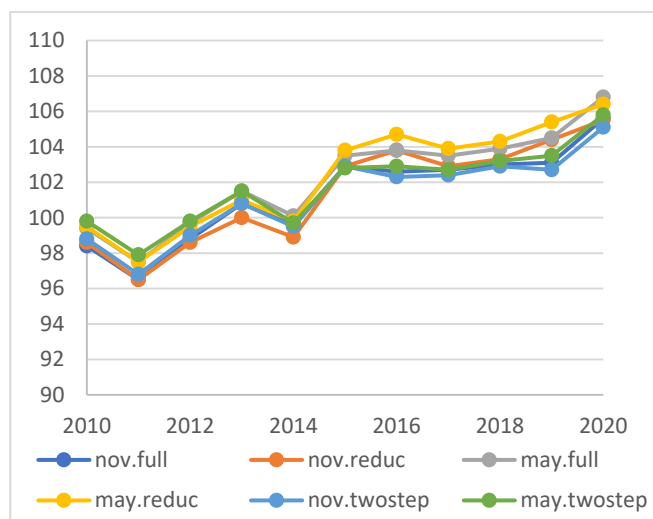
bv23

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.995	0.997	0.997
2011	167	0.995	0.997	0.997
2012	172	0.993	0.995	0.995
2013	120	0.924	0.925	0.992
2014	104	0.914	0.905	0.992
2015	80	0.908	0.907	0.995
2016	66	0.851	0.874	0.963
2017	65	0.917	0.961	0.937
2018	89	0.939	0.950	0.986
2019	60	0.941	0.968	0.976
2020	26	0.936	0.941	0.987

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	98.4	98.6	99.4	99.5	98.8	99.8
2011	167	96.5	96.5	97.5	97.5	96.8	97.9
2012	172	98.8	98.6	99.7	99.5	99.0	99.8
2013	120	100.8	100.0	101.5	101.0	100.8	101.5
2014	104	99.6	98.9	100.1	99.8	99.5	99.7
2015	80	102.9	102.9	103.5	103.8	102.9	102.8
2016	66	102.6	103.8	103.8	104.7	102.3	102.9
2017	65	102.7	102.9	103.5	103.9	102.4	102.7
2018	89	103.0	103.3	103.9	104.3	102.9	103.2
2019	60	103.1	104.4	104.5	105.4	102.7	103.5
2020	26	105.6	105.5	106.8	106.4	105.1	105.8



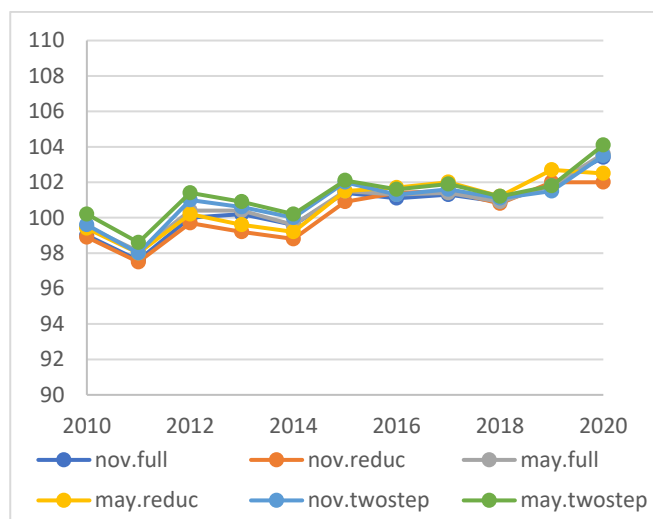
bv24

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.996	0.997	0.997
2011	167	0.996	0.997	0.998
2012	172	0.995	0.996	0.995
2013	120	0.927	0.927	0.993
2014	104	0.923	0.921	0.992
2015	80	0.866	0.870	0.983
2016	66	0.862	0.913	0.968
2017	65	0.897	0.956	0.935
2018	89	0.951	0.962	0.983
2019	60	0.938	0.971	0.967
2020	26	0.941	0.951	0.993

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	99.0	98.9	99.5	99.4	99.6	100.2
2011	167	97.6	97.5	98.1	98.0	98.0	98.6
2012	172	100.0	99.7	100.4	100.2	101.0	101.4
2013	120	100.2	99.2	100.4	99.6	100.6	100.9
2014	104	99.6	98.8	99.6	99.2	100.0	100.2
2015	80	101.4	100.9	101.5	101.5	102.0	102.1
2016	66	101.1	101.4	101.3	101.7	101.3	101.6
2017	65	101.3	101.5	101.4	102.0	101.6	101.9
2018	89	100.9	100.8	100.9	101.2	101.1	101.2
2019	60	101.9	102.0	101.8	102.7	101.5	101.8
2020	26	103.4	102.0	103.6	102.5	103.5	104.1



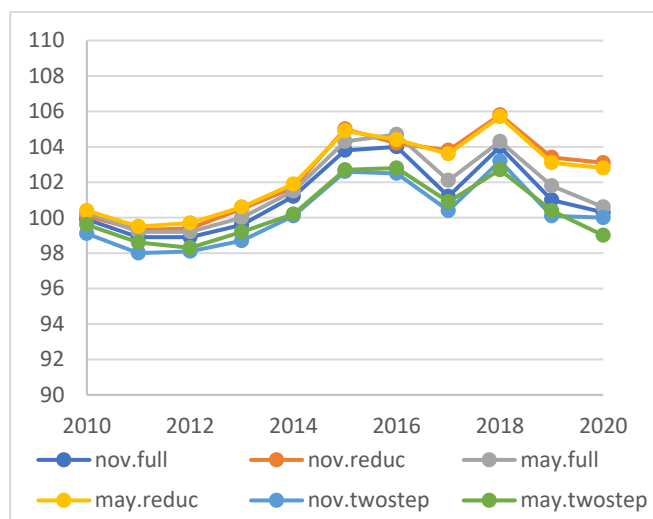
bv25

Correlations

Birth year	Number of bulls	nov.full_nov.reduc	may.full_may.reduc	nov.full_may.full
2010	226	0.986	0.991	0.994
2011	167	0.991	0.994	0.995
2012	172	0.985	0.989	0.992
2013	120	0.883	0.886	0.990
2014	104	0.854	0.865	0.988
2015	80	0.838	0.856	0.990
2016	66	0.751	0.818	0.949
2017	65	0.820	0.900	0.919
2018	89	0.843	0.861	0.963
2019	60	0.881	0.934	0.939
2020	26	0.885	0.932	0.964

Mean GEBV

Birth year	No of bulls	nov.full	nov.reduc	may.full	may.reduc	nov.twostep	may.twostep
2010	226	99.9	100.1	100.3	100.4	99.1	99.6
2011	167	98.9	99.3	99.2	99.5	98.0	98.6
2012	172	98.9	99.4	99.2	99.7	98.1	98.3
2013	120	99.6	100.5	100.0	100.6	98.7	99.2
2014	104	101.2	101.7	101.5	101.9	100.1	100.2
2015	80	103.8	105.0	104.3	104.9	102.6	102.7
2016	66	104.0	104.2	104.7	104.4	102.5	102.8
2017	65	101.2	103.8	102.1	103.6	100.4	100.9
2018	89	104.0	105.8	104.3	105.7	103.2	102.7
2019	60	101.0	103.4	101.8	103.1	100.1	100.4
2020	26	100.3	103.1	100.6	102.8	100.0	99.0



Stability RDC

For RDC the August run are compared with the May run to check stability of the single step GEBV's

Cows

For Nordic RDC cows with phenotypes in May run. Both genotyped and nongenotyped females are included.

bv1

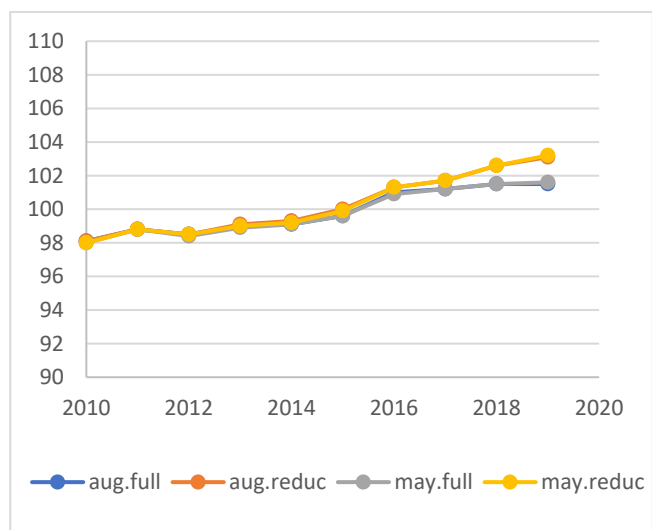
Correlations

Birth year	Number of cows	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	25546	0.999	0.999	1.000
2011	25253	0.998	0.998	1.000
2012	22822	0.997	0.997	1.000
2013	24752	0.996	0.996	1.000
2014	23937	0.994	0.995	0.999
2015	21819	0.895	0.896	0.999
2016	20246	0.778	0.780	0.998
2017	15781	0.735	0.735	0.998
2018	8688	0.721	0.721	0.997
2019	180	0.758	0.753	0.992

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	98.1	98.1	98.0	98.0
2011	25253	98.8	98.8	98.8	98.8
2012	22822	98.5	98.5	98.4	98.5
2013	24752	99.0	99.1	98.9	99.0
2014	23937	99.1	99.3	99.1	99.2
2015	21819	99.6	100.0	99.6	99.9
2016	20246	101.0	101.3	100.9	101.3
2017	15781	101.2	101.7	101.2	101.7
2018	8688	101.5	102.6	101.5	102.6
2019	180	101.5	103.1	101.6	103.2

Mælkeafgiftsfonden



bv2

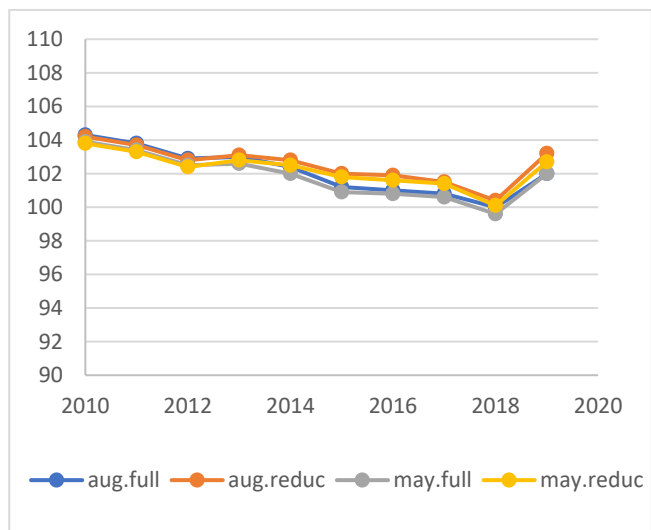
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.995		0.996		0.999	
2011	25252	0.992		0.993		0.999	
2012	22823	0.990		0.992		0.999	
2013	24755	0.986		0.988		0.998	
2014	23941	0.985		0.987		0.998	
2015	21822	0.912		0.916		0.997	
2016	20245	0.844		0.850		0.996	
2017	15783	0.811		0.818		0.996	
2018	8688	0.817		0.829		0.995	
2019	180	0.776		0.806		0.989	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	104.3	104.2	103.9	103.8
2011	25252	103.8	103.7	103.4	103.3
2012	22823	102.9	102.8	102.5	102.4
2013	24755	103.0	103.1	102.6	102.8
2014	23941	102.4	102.8	102.0	102.5
2015	21822	101.2	102.0	100.9	101.8
2016	20245	101.0	101.9	100.8	101.6
2017	15783	100.8	101.5	100.6	101.4
2018	8688	100.0	100.4	99.6	100.1
2019	180	102.0	103.2	102.0	102.7

Mælkeafgiftsfonden



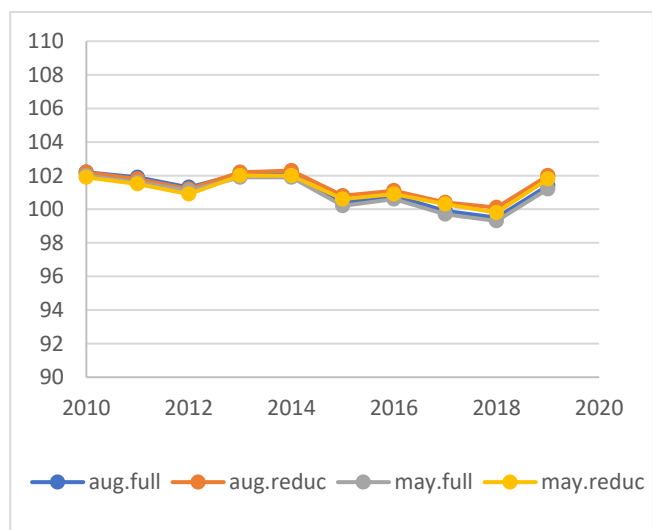
bv3

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.994		0.996		0.999	
2011	25252	0.992		0.993		0.999	
2012	22823	0.990		0.992		0.999	
2013	24755	0.988		0.990		0.998	
2014	23941	0.986		0.989		0.998	
2015	21822	0.951		0.953		0.997	
2016	20245	0.876		0.878		0.996	
2017	15783	0.851		0.850		0.995	
2018	8687	0.877		0.881		0.994	
2019	180	0.839		0.839		0.985	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	102.2	102.2	102.0	101.9
2011	25252	101.9	101.8	101.6	101.5
2012	22823	101.3	101.2	101.1	100.9
2013	24755	102.1	102.2	101.9	102.0
2014	23941	102.1	102.3	101.9	102.0
2015	21822	100.4	100.8	100.2	100.6
2016	20245	100.8	101.1	100.6	100.9
2017	15783	99.9	100.4	99.7	100.3
2018	8687	99.5	100.1	99.3	99.8
2019	180	101.4	102.0	101.2	101.8



bv4

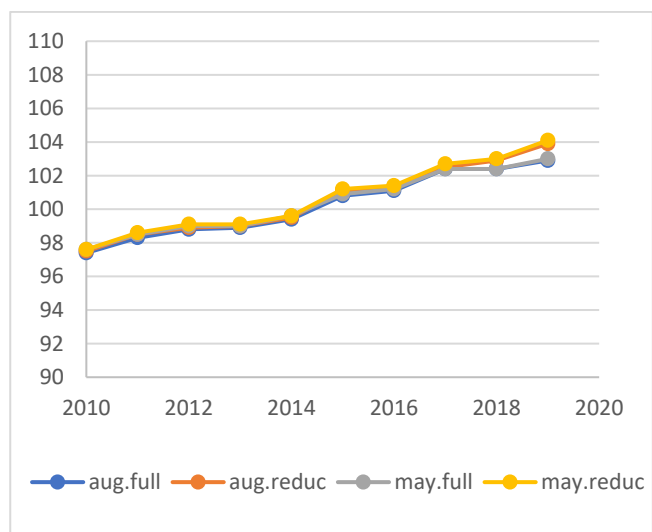
Correlations

Birth year	Number of cows	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	25547	0.993	0.995	0.999
2011	25252	0.991	0.993	0.999
2012	22823	0.988	0.990	0.998
2013	24755	0.985	0.988	0.998
2014	23941	0.981	0.985	0.997
2015	21822	0.937	0.941	0.997
2016	20245	0.844	0.841	0.994
2017	15783	0.785	0.780	0.993
2018	8686	0.779	0.787	0.988
2019	180	0.781	0.762	0.967

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	97.4	97.5	97.6	97.6
2011	25252	98.3	98.5	98.5	98.6
2012	22823	98.8	98.9	99.0	99.1
2013	24755	98.9	99.0	99.0	99.1
2014	23941	99.4	99.5	99.6	99.6
2015	21822	100.8	101.1	100.9	101.2
2016	20245	101.1	101.3	101.2	101.4
2017	15783	102.4	102.5	102.4	102.7
2018	8686	102.4	102.9	102.4	103.0
2019	180	102.9	103.9	103.0	104.1

Mælkeafgiftsfonden



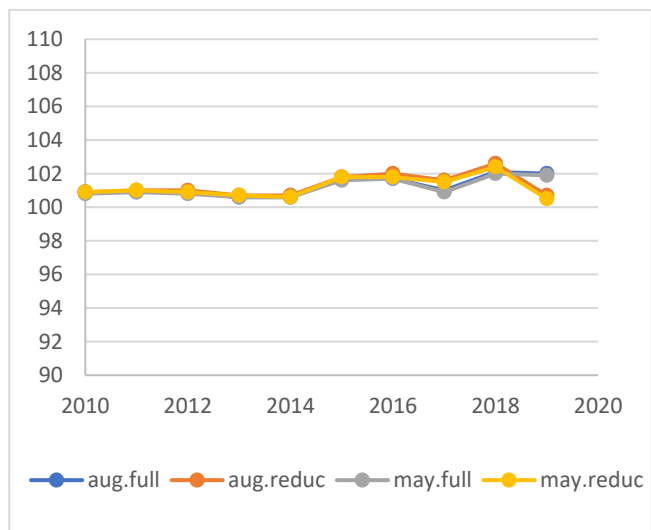
bv5

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.995		0.996		0.999	
2011	25252	0.993		0.994		0.999	
2012	22824	0.989		0.991		0.999	
2013	24755	0.986		0.987		0.998	
2014	23941	0.985		0.986		0.998	
2015	21822	0.936		0.937		0.997	
2016	20244	0.878		0.880		0.996	
2017	15783	0.848		0.847		0.995	
2018	8686	0.819		0.816		0.992	
2019	180	0.821		0.789		0.983	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	100.9	100.9	100.8	100.9
2011	25252	100.9	101.0	100.9	101.0
2012	22824	100.9	101.0	100.8	100.9
2013	24755	100.6	100.7	100.6	100.7
2014	23941	100.6	100.7	100.6	100.6
2015	21822	101.7	101.8	101.6	101.8
2016	20244	101.7	102.0	101.7	101.8
2017	15783	101.0	101.6	100.9	101.5
2018	8686	102.1	102.6	102.0	102.4
2019	180	102.0	100.7	101.9	100.5



bv6

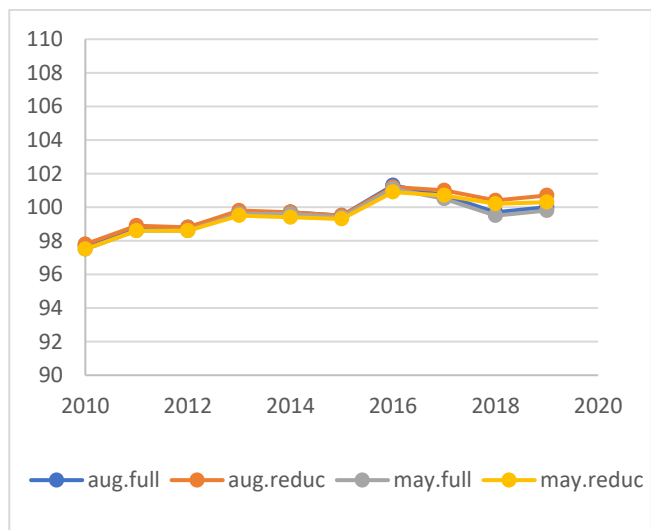
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.996		0.997		1.000	
2011	25251	0.994		0.995		0.999	
2012	22823	0.992		0.993		0.999	
2013	24755	0.990		0.991		0.999	
2014	23941	0.988		0.990		0.999	
2015	21822	0.925		0.925		0.998	
2016	20245	0.838		0.836		0.997	
2017	15783	0.774		0.763		0.996	
2018	8686	0.776		0.768		0.994	
2019	180	0.794		0.805		0.987	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	97.7	97.8	97.5	97.5
2011	25251	98.8	98.9	98.6	98.6
2012	22823	98.8	98.8	98.6	98.6
2013	24755	99.7	99.8	99.6	99.5
2014	23941	99.7	99.7	99.6	99.4
2015	21822	99.5	99.5	99.4	99.3
2016	20245	101.3	101.2	101.1	100.9
2017	15783	100.7	101.0	100.5	100.7
2018	8686	99.7	100.4	99.5	100.2
2019	180	100.0	100.7	99.8	100.3

Mælkeafgiftsfonden



bv7

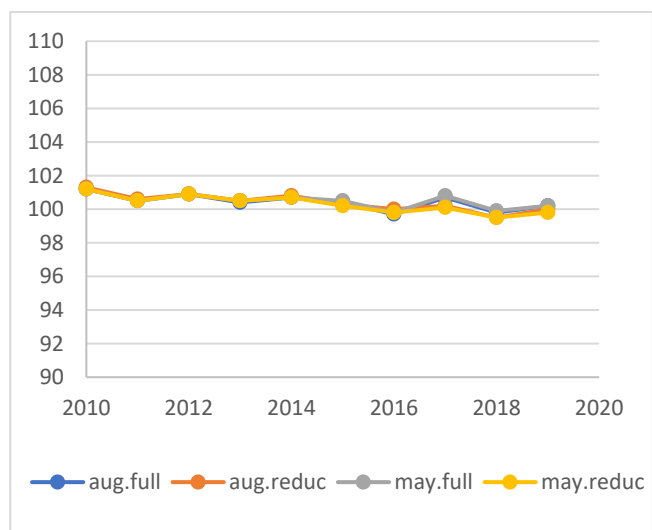
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.995		0.997		0.999	
2011	25251	0.993		0.995		0.999	
2012	22823	0.990		0.993		0.999	
2013	24755	0.989		0.991		0.999	
2014	23941	0.988		0.990		0.998	
2015	21822	0.930		0.930		0.997	
2016	20245	0.887		0.885		0.996	
2017	15784	0.835		0.830		0.995	
2018	8686	0.834		0.829		0.994	
2019	180	0.802		0.792		0.985	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	101.2	101.3	101.2	101.2
2011	25251	100.5	100.6	100.5	100.5
2012	22823	100.9	100.9	100.9	100.9
2013	24755	100.4	100.5	100.5	100.5
2014	23941	100.7	100.8	100.7	100.7
2015	21822	100.4	100.3	100.5	100.2
2016	20245	99.7	100.0	99.8	99.8
2017	15784	100.7	100.2	100.8	100.1
2018	8686	99.8	99.5	99.9	99.5
2019	180	100.2	100.0	100.2	99.8

Mælkeafgiftsfonden



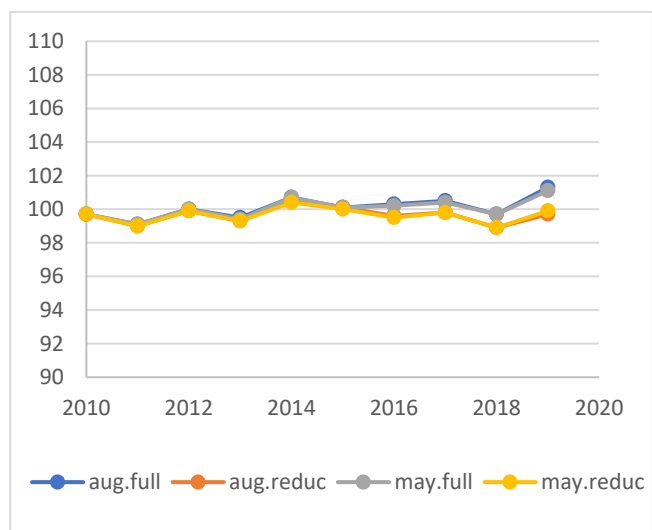
bv9

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.996		0.997		0.999	
2011	25252	0.994		0.995		0.999	
2012	22823	0.992		0.994		0.999	
2013	24755	0.990		0.992		0.999	
2014	23941	0.988		0.990		0.998	
2015	21823	0.943		0.947		0.997	
2016	20246	0.882		0.889		0.996	
2017	15784	0.849		0.851		0.995	
2018	8686	0.862		0.863		0.993	
2019	180	0.844		0.836		0.977	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	99.7	99.7	99.7	99.7
2011	25252	99.1	99.0	99.1	99.0
2012	22823	100.0	99.9	100.0	99.9
2013	24755	99.5	99.3	99.4	99.3
2014	23941	100.7	100.5	100.7	100.4
2015	21823	100.1	100.1	100.1	100.0
2016	20246	100.3	99.6	100.2	99.5
2017	15784	100.5	99.8	100.4	99.8
2018	8686	99.7	98.9	99.7	98.9
2019	180	101.3	99.7	101.1	99.9



bv10

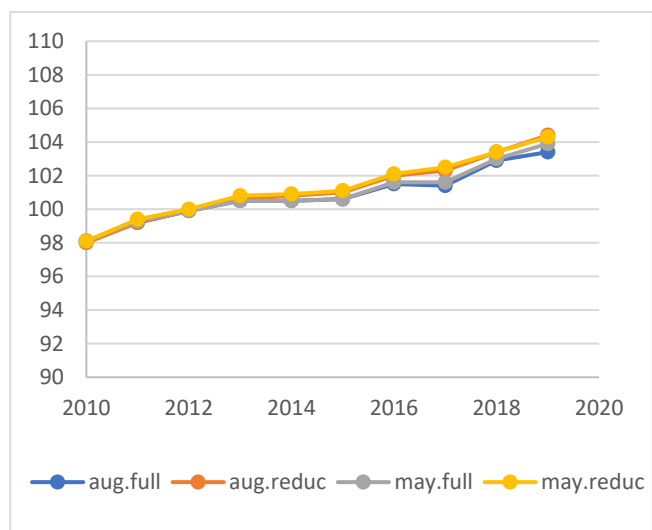
Correlations

Birth year	Number of cows	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	25547	0.992	0.995	0.999
2011	25252	0.990	0.993	0.999
2012	22823	0.987	0.991	0.998
2013	24756	0.985	0.989	0.998
2014	23940	0.982	0.986	0.997
2015	21822	0.931	0.938	0.997
2016	20246	0.836	0.849	0.993
2017	15782	0.817	0.834	0.994
2018	8686	0.807	0.819	0.989
2019	180	0.724	0.712	0.978

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	98.1	98.0	98.1	98.1
2011	25252	99.2	99.2	99.3	99.4
2012	22823	99.9	99.9	99.9	100.0
2013	24756	100.5	100.6	100.5	100.8
2014	23940	100.5	100.8	100.5	100.9
2015	21822	100.6	101.0	100.6	101.1
2016	20246	101.5	102.0	101.6	102.1
2017	15782	101.4	102.3	101.6	102.5
2018	8686	102.9	103.4	103.0	103.4
2019	180	103.4	104.4	103.9	104.3

Mælkeafgiftsfonden



bv11

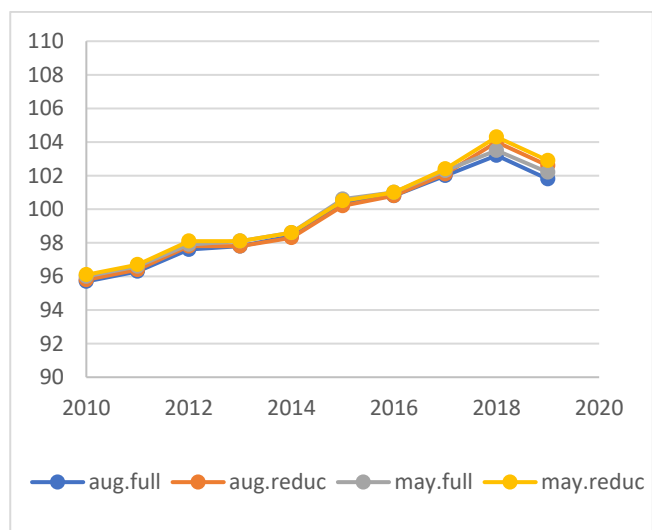
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.994		0.995		0.999	
2011	25252	0.990		0.992		0.999	
2012	22823	0.988		0.989		0.998	
2013	24755	0.984		0.985		0.998	
2014	23940	0.982		0.984		0.998	
2015	21822	0.897		0.901		0.996	
2016	20246	0.776		0.781		0.995	
2017	15782	0.751		0.756		0.995	
2018	8686	0.761		0.766		0.993	
2019	180	0.755		0.743		0.988	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	95.7	95.8	96.0	96.1
2011	25252	96.3	96.4	96.6	96.7
2012	22823	97.6	97.8	97.9	98.1
2013	24755	97.8	97.8	98.1	98.1
2014	23940	98.4	98.3	98.6	98.6
2015	21822	100.4	100.2	100.6	100.5
2016	20246	100.8	100.8	101.0	101.0
2017	15782	102.0	102.1	102.3	102.4
2018	8686	103.2	104.0	103.5	104.3
2019	180	101.8	102.6	102.2	102.9

Mælkeafgiftsfonden



bv12

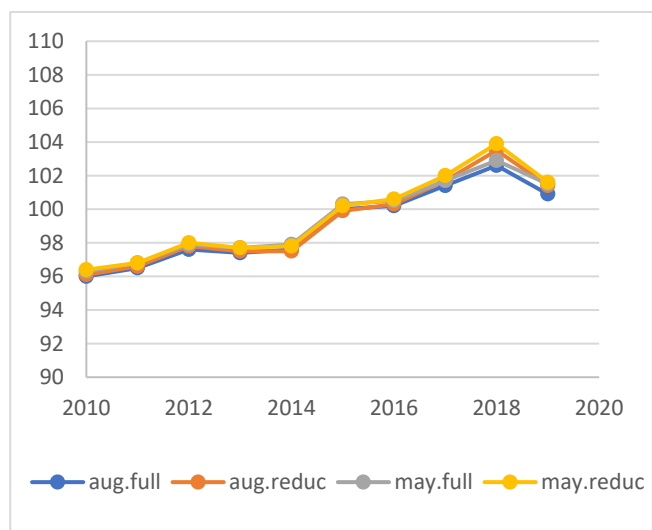
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.996		0.996		0.999	
2011	25252	0.993		0.994		0.999	
2012	22823	0.991		0.992		0.999	
2013	24755	0.988		0.989		0.999	
2014	23939	0.987		0.988		0.998	
2015	21822	0.899		0.903		0.998	
2016	20246	0.778		0.782		0.996	
2017	15782	0.771		0.772		0.996	
2018	8686	0.767		0.772		0.995	
2019	180	0.766		0.781		0.984	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	96.0	96.1	96.3	96.4
2011	25252	96.5	96.6	96.8	96.8
2012	22823	97.6	97.8	97.9	98.0
2013	24755	97.4	97.5	97.7	97.7
2014	23939	97.6	97.5	97.9	97.8
2015	21822	100.0	99.9	100.3	100.2
2016	20246	100.2	100.3	100.5	100.6
2017	15782	101.4	101.7	101.7	102.0
2018	8686	102.6	103.5	102.9	103.9
2019	180	100.9	101.4	101.5	101.6

Mælkeafgiftsfonden



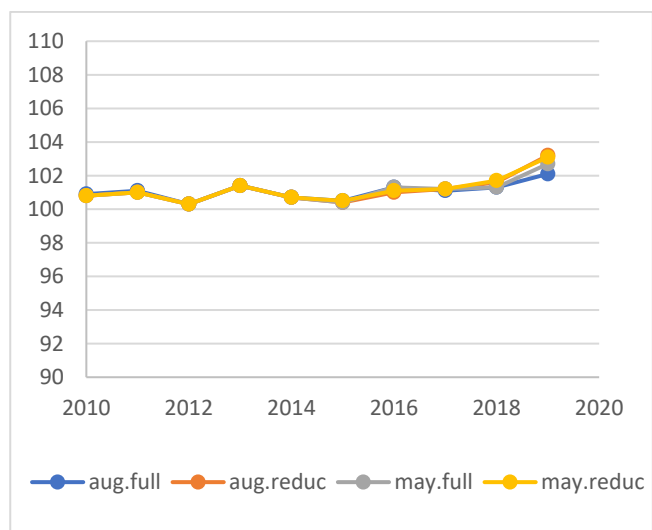
bv13

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.990		0.993		0.999	
2011	25251	0.986		0.990		0.998	
2012	22823	0.982		0.986		0.998	
2013	24755	0.980		0.986		0.998	
2014	23940	0.974		0.980		0.996	
2015	21822	0.913		0.916		0.996	
2016	20246	0.798		0.798		0.993	
2017	15783	0.754		0.767		0.993	
2018	8686	0.772		0.789		0.989	
2019	180	0.749		0.746		0.978	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	100.9	100.8	100.8	100.8
2011	25251	101.1	101.0	101.0	101.0
2012	22823	100.3	100.3	100.3	100.3
2013	24755	101.4	101.4	101.4	101.4
2014	23940	100.7	100.7	100.7	100.7
2015	21822	100.5	100.4	100.4	100.5
2016	20246	101.3	101.0	101.3	101.1
2017	15783	101.1	101.2	101.2	101.2
2018	8686	101.3	101.6	101.3	101.7
2019	180	102.1	103.2	102.7	103.1



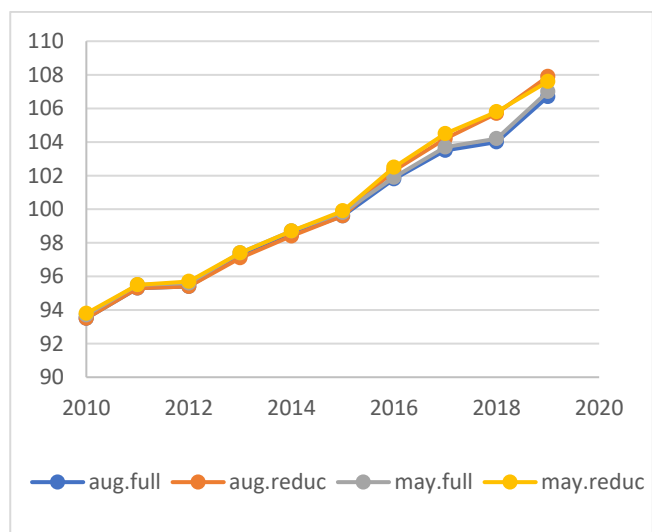
bv16

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.993		0.995		0.999	
2011	25250	0.989		0.992		0.998	
2012	22822	0.987		0.990		0.998	
2013	24754	0.983		0.987		0.998	
2014	23939	0.981		0.985		0.998	
2015	21820	0.910		0.912		0.996	
2016	20244	0.852		0.857		0.995	
2017	15781	0.812		0.815		0.994	
2018	8685	0.824		0.837		0.992	
2019	180	0.734		0.755		0.975	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	93.5	93.5	93.7	93.8
2011	25250	95.3	95.3	95.5	95.5
2012	22822	95.4	95.4	95.6	95.7
2013	24754	97.2	97.1	97.4	97.4
2014	23939	98.5	98.4	98.7	98.7
2015	21820	99.6	99.6	99.8	99.9
2016	20244	101.8	102.3	101.9	102.5
2017	15781	103.5	104.2	103.7	104.5
2018	8685	104.0	105.7	104.2	105.8
2019	180	106.7	107.9	107.0	107.6



bv17

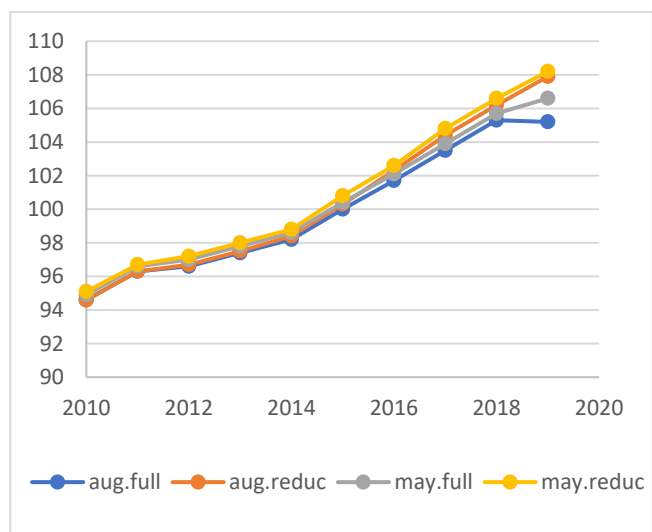
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.994		0.996		0.999	
2011	25249	0.991		0.993		0.999	
2012	22822	0.988		0.99		0.998	
2013	24754	0.984		0.987		0.998	
2014	23938	0.983		0.986		0.998	
2015	21820	0.915		0.919		0.997	
2016	20244	0.844		0.851		0.995	
2017	15780	0.806		0.807		0.994	
2018	8685	0.813		0.803		0.993	
2019	180	0.729		0.721		0.983	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	94.6	94.6	94.9	95.1
2011	25249	96.3	96.3	96.6	96.7
2012	22822	96.6	96.7	97.0	97.2
2013	24754	97.4	97.5	97.8	98.0
2014	23938	98.2	98.4	98.6	98.8
2015	21820	100.0	100.3	100.4	100.8
2016	20244	101.7	102.3	102.1	102.6
2017	15780	103.5	104.4	103.9	104.8
2018	8685	105.3	106.2	105.7	106.6
2019	180	105.2	107.9	106.6	108.2

Mælkeafgiftsfonden



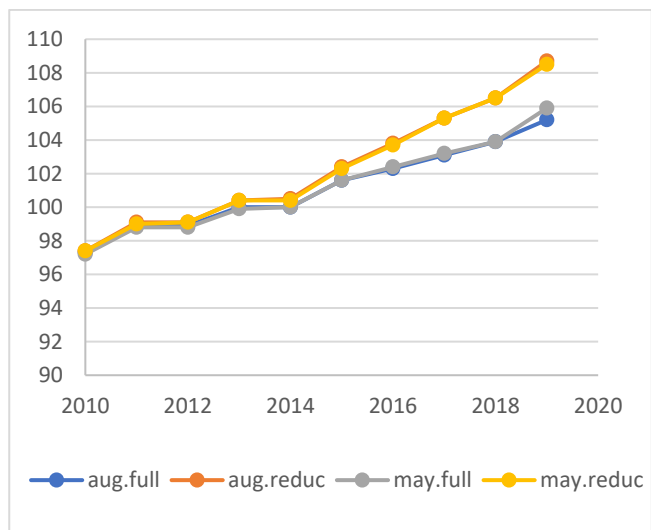
bv18

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.996		0.996		0.999	
2011	25250	0.993		0.994		0.999	
2012	22822	0.991		0.992		0.999	
2013	24754	0.988		0.989		0.999	
2014	23938	0.986		0.987		0.998	
2015	21820	0.930		0.932		0.997	
2016	20244	0.855		0.854		0.996	
2017	15780	0.810		0.810		0.995	
2018	8685	0.773		0.769		0.993	
2019	180	0.793		0.807		0.987	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	97.3	97.4	97.2	97.4
2011	25250	98.9	99.1	98.8	99.0
2012	22822	98.9	99.1	98.8	99.1
2013	24754	100.0	100.4	99.9	100.4
2014	23938	100.0	100.5	100.0	100.4
2015	21820	101.6	102.4	101.6	102.3
2016	20244	102.3	103.8	102.4	103.7
2017	15780	103.1	105.3	103.2	105.3
2018	8685	103.9	106.5	103.9	106.5
2019	180	105.2	108.7	105.9	108.5

**bv19**

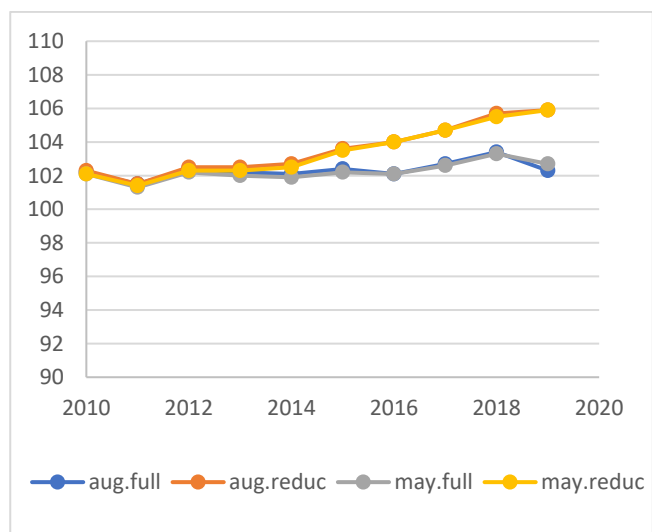
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.992		0.994		0.999	
2011	25249	0.988		0.992		0.998	
2012	22821	0.987		0.990		0.998	
2013	24754	0.983		0.986		0.998	
2014	23938	0.980		0.984		0.998	
2015	21819	0.924		0.928		0.996	
2016	20243	0.855		0.862		0.995	
2017	15780	0.816		0.823		0.995	
2018	8685	0.812		0.825		0.992	
2019	180	0.808		0.840		0.982	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	102.2	102.3	102.1	102.1
2011	25249	101.5	101.5	101.3	101.4
2012	22821	102.4	102.5	102.2	102.3
2013	24754	102.2	102.5	102.0	102.3
2014	23938	102.1	102.7	101.9	102.5
2015	21819	102.4	103.6	102.2	103.5
2016	20243	102.1	104.0	102.1	104.0
2017	15780	102.7	104.7	102.6	104.7
2018	8685	103.4	105.7	103.3	105.5
2019	180	102.3	105.9	102.7	105.9

Mælkeafgiftsfonden



bv20

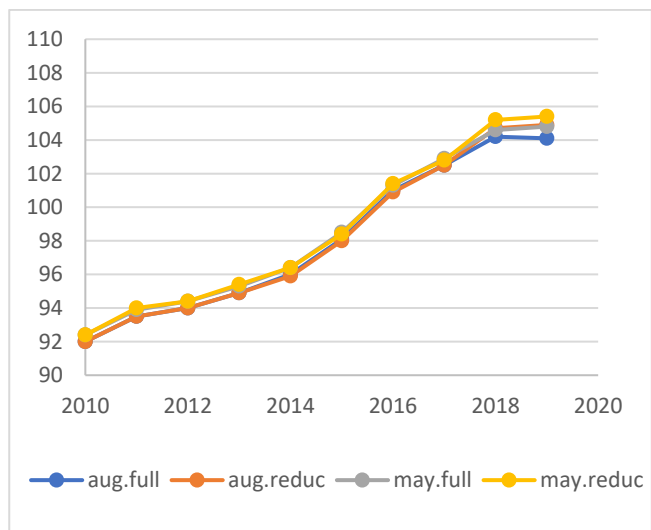
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.996		0.997		0.999	
2011	25249	0.994		0.995		0.999	
2012	22821	0.991		0.993		0.999	
2013	24753	0.987		0.989		0.998	
2014	23938	0.985		0.988		0.998	
2015	21819	0.918		0.920		0.997	
2016	20242	0.832		0.837		0.996	
2017	15779	0.785		0.791		0.995	
2018	8685	0.797		0.802		0.994	
2019	180	0.780		0.787		0.981	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	92.0	92.0	92.4	92.4
2011	25249	93.5	93.5	93.9	94.0
2012	22821	94.0	94.0	94.4	94.4
2013	24753	94.9	94.9	95.3	95.4
2014	23938	96.0	95.9	96.4	96.4
2015	21819	98.1	98.0	98.5	98.4
2016	20242	101.0	100.9	101.3	101.4
2017	15779	102.5	102.5	102.9	102.8
2018	8685	104.2	104.7	104.6	105.2
2019	180	104.1	104.9	104.8	105.4

Mælkeafgiftsfonden



bv21

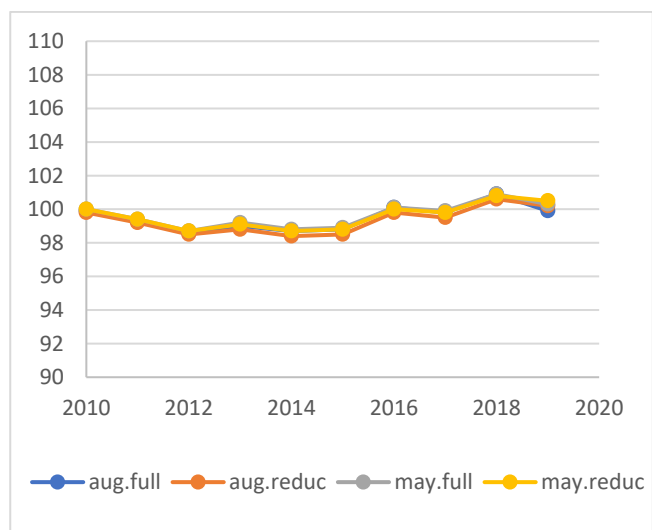
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25545	0.995		0.996		0.999	
2011	25249	0.993		0.994		0.999	
2012	22822	0.991		0.993		0.999	
2013	24753	0.991		0.992		0.999	
2014	23939	0.988		0.990		0.999	
2015	21819	0.932		0.935		0.998	
2016	20241	0.861		0.865		0.997	
2017	15781	0.840		0.841		0.997	
2018	8685	0.833		0.835		0.996	
2019	180	0.802		0.809		0.992	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25545	99.9	99.8	100.0	100.0
2011	25249	99.3	99.2	99.4	99.4
2012	22822	98.6	98.5	98.7	98.7
2013	24753	99.0	98.8	99.2	99.1
2014	23939	98.7	98.4	98.8	98.7
2015	21819	98.8	98.5	98.9	98.8
2016	20241	100.1	99.8	100.1	100.0
2017	15781	99.8	99.5	99.9	99.8
2018	8685	100.9	100.6	100.9	100.8
2019	180	99.9	100.2	100.3	100.5

Mælkeafgiftsfonden



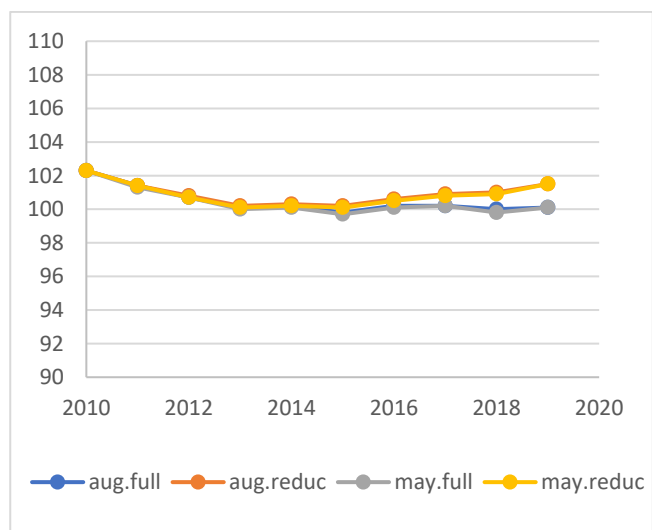
bv22

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.996		0.996		0.999	
2011	25249	0.994		0.994		0.999	
2012	22822	0.992		0.993		0.999	
2013	24753	0.989		0.990		0.999	
2014	23939	0.988		0.989		0.999	
2015	21819	0.940		0.942		0.998	
2016	20241	0.874		0.875		0.997	
2017	15781	0.842		0.844		0.996	
2018	8685	0.819		0.822		0.995	
2019	180	0.882		0.894		0.991	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	102.3	102.3	102.3	102.3
2011	25249	101.4	101.4	101.3	101.4
2012	22822	100.7	100.8	100.7	100.7
2013	24753	100.1	100.2	100.0	100.1
2014	23939	100.2	100.3	100.1	100.2
2015	21819	99.8	100.2	99.7	100.1
2016	20241	100.2	100.6	100.1	100.5
2017	15781	100.2	100.9	100.2	100.8
2018	8685	100.0	101.0	99.8	100.9
2019	180	100.1	101.5	100.1	101.5



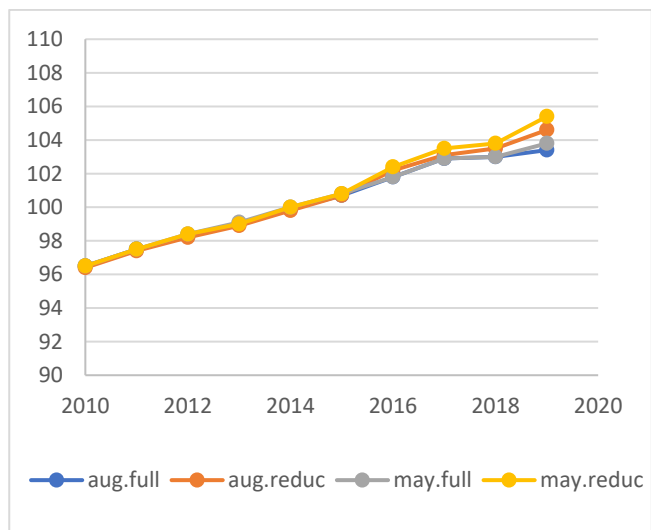
bv23

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25546	0.993		0.996		0.999	
2011	25249	0.990		0.994		0.999	
2012	22822	0.987		0.991		0.998	
2013	24753	0.985		0.989		0.998	
2014	23938	0.984		0.988		0.998	
2015	21819	0.929		0.935		0.997	
2016	20241	0.845		0.855		0.995	
2017	15780	0.817		0.825		0.996	
2018	8685	0.796		0.803		0.994	
2019	180	0.784		0.820		0.989	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25546	96.5	96.4	96.5	96.5
2011	25249	97.5	97.4	97.5	97.5
2012	22822	98.3	98.2	98.4	98.4
2013	24753	99.0	98.9	99.1	99.0
2014	23938	99.9	99.8	100.0	100.0
2015	21819	100.7	100.7	100.8	100.8
2016	20241	101.8	102.2	101.8	102.4
2017	15780	102.9	103.1	102.9	103.5
2018	8685	103.0	103.5	103.0	103.8
2019	180	103.4	104.6	103.8	105.4



bv24

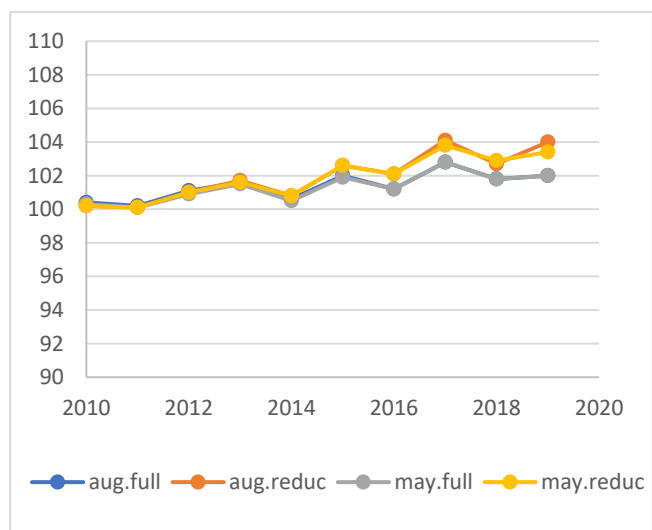
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25545	0.988		0.995		0.999	
2011	25249	0.984		0.993		0.999	
2012	22821	0.981		0.990		0.998	
2013	24753	0.981		0.990		0.998	
2014	23937	0.978		0.988		0.998	
2015	21819	0.914		0.934		0.997	
2016	20241	0.827		0.854		0.996	
2017	15780	0.800		0.829		0.996	
2018	8685	0.772		0.816		0.994	
2019	180	0.790		0.820		0.990	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25545	100.4	100.2	100.3	100.2
2011	25249	100.2	100.1	100.1	100.1
2012	22821	101.1	101.0	100.9	101.0
2013	24753	101.6	101.7	101.5	101.6
2014	23937	100.6	100.8	100.5	100.8
2015	21819	102.0	102.6	101.9	102.6
2016	20241	101.2	102.1	101.2	102.1
2017	15780	102.8	104.1	102.8	103.8
2018	8685	101.8	102.7	101.8	102.9
2019	180	102.0	104.0	102.0	103.4

Mælkeafgiftsfonden



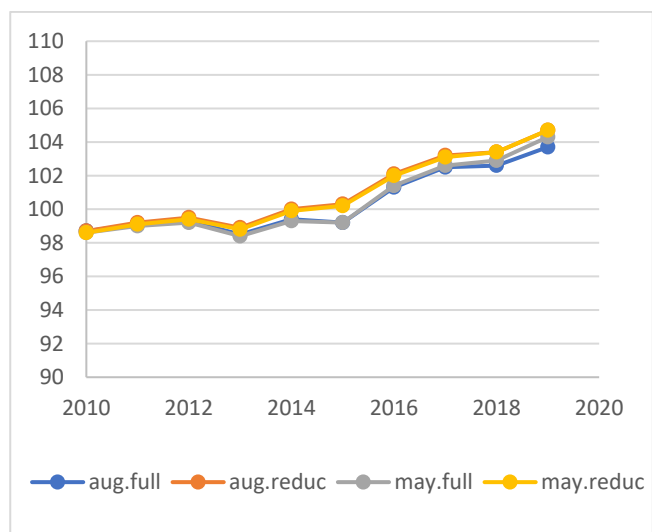
bv25

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	25547	0.993		0.993		0.999	
2011	25247	0.990		0.991		0.999	
2012	22822	0.988		0.989		0.999	
2013	24753	0.985		0.986		0.998	
2014	23938	0.984		0.986		0.998	
2015	21819	0.927		0.930		0.997	
2016	20241	0.851		0.859		0.996	
2017	15780	0.828		0.833		0.996	
2018	8685	0.826		0.835		0.994	
2019	180	0.791		0.799		0.990	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	25547	98.7	98.7	98.6	98.6
2011	25247	99.1	99.2	99.0	99.1
2012	22822	99.3	99.5	99.2	99.4
2013	24753	98.5	98.9	98.4	98.8
2014	23938	99.4	100.0	99.3	99.9
2015	21819	99.2	100.3	99.2	100.2
2016	20241	101.3	102.1	101.4	102.0
2017	15780	102.5	103.2	102.6	103.1
2018	8685	102.6	103.4	102.9	103.4
2019	180	103.7	104.7	104.3	104.7



Bulls

bv1

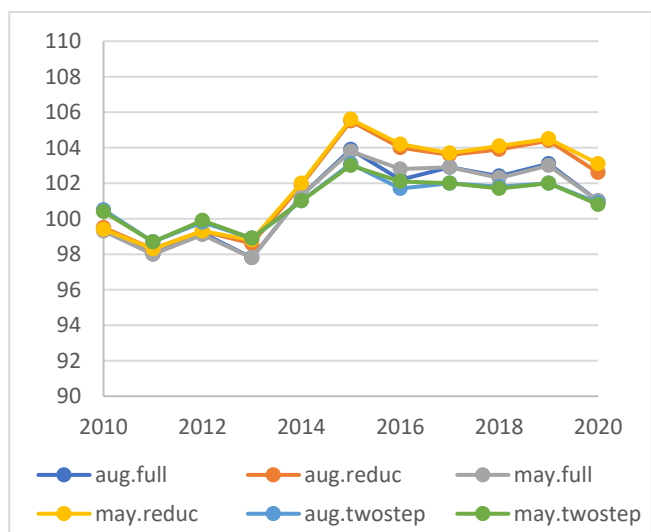
Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010		0.991	0.994	0.999
2011		0.990	0.992	0.999
2012		0.995	0.996	0.999
2013		0.898	0.902	0.998
2014		0.941	0.938	0.999
2015		0.865	0.870	0.999
2016		0.933	0.927	0.986
2017		0.880	0.890	0.980
2018		0.910	0.922	0.994
2019		0.828	0.838	0.990
2020		0.930	0.941	0.991

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	99.4	99.5	99.3	99.4	100.5	100.4
2011	214	98.0	98.3	98.0	98.3	98.7	98.7
2012	151	99.2	99.3	99.1	99.3	99.8	99.9
2013	119	97.8	98.6	97.8	98.8	98.9	98.9
2014	73	101.3	101.9	101.3	102.0	101.0	101.0
2015	50	103.9	105.5	103.8	105.6	103.1	103.0
2016	47	102.2	104.0	102.8	104.2	101.7	102.1
2017	79	102.9	103.6	102.9	103.7	102.0	102.0
2018	63	102.4	103.9	102.3	104.1	101.8	101.7
2019	49	103.1	104.4	103.0	104.5	102.0	102.0
2020	29	101.0	102.6	101.0	103.1	100.9	100.8

Mælkeafgiftsfonden



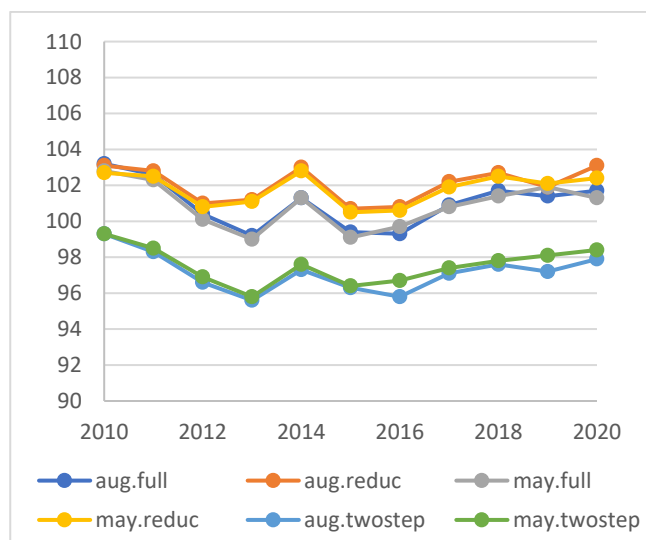
bv2

Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	230	0.985		0.988		0.998	
2011	214	0.982		0.984		0.998	
2012	151	0.986		0.987		0.999	
2013	119	0.869		0.868		0.998	
2014	73	0.895		0.911		0.998	
2015	50	0.813		0.833		0.997	
2016	47	0.840		0.894		0.970	
2017	79	0.878		0.877		0.991	
2018	63	0.869		0.883		0.992	
2019	49	0.736		0.834		0.966	
2020	29	0.833		0.845		0.990	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	103.2	103.1	102.8	102.7	99.3	99.3
2011	214	102.6	102.8	102.3	102.5	98.3	98.5
2012	151	100.4	101.0	100.1	100.8	96.6	96.9
2013	119	99.2	101.2	99.0	101.1	95.6	95.8
2014	73	101.3	103.0	101.3	102.8	97.3	97.6
2015	50	99.4	100.7	99.1	100.5	96.3	96.4
2016	47	99.3	100.8	99.7	100.6	95.8	96.7
2017	79	100.9	102.2	100.8	101.9	97.1	97.4
2018	63	101.7	102.7	101.4	102.5	97.6	97.8
2019	49	101.4	101.9	101.9	102.1	97.2	98.1
2020	29	101.7	103.1	101.3	102.4	97.9	98.4



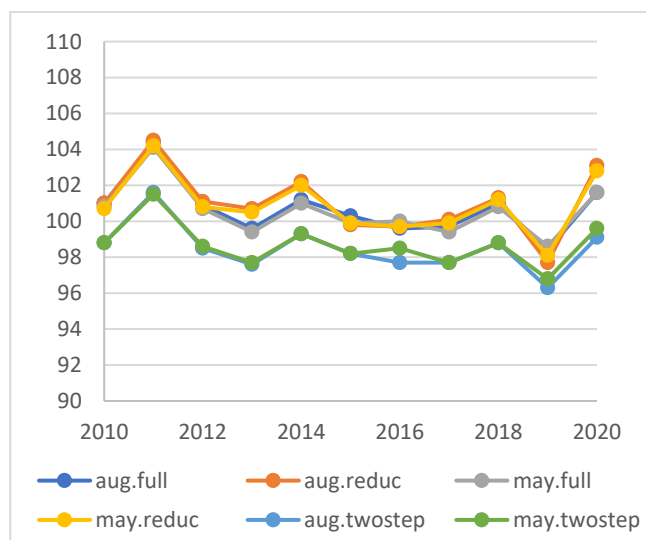
bv3

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.986	0.988	0.999
2011	214	0.985	0.988	0.998
2012	151	0.983	0.986	0.999
2013	119	0.897	0.906	0.998
2014	73	0.903	0.907	0.998
2015	50	0.887	0.889	0.997
2016	47	0.843	0.869	0.969
2017	79	0.899	0.907	0.991
2018	63	0.894	0.918	0.985
2019	49	0.882	0.907	0.984
2020	29	0.818	0.851	0.987

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	101.0	101.0	100.8	100.7	98.8	98.8
2011	214	104.4	104.5	104.1	104.2	101.6	101.5
2012	151	100.9	101.1	100.7	100.8	98.5	98.6
2013	119	99.6	100.7	99.4	100.5	97.6	97.7
2014	73	101.2	102.2	101.0	102.0	99.3	99.3
2015	50	100.3	99.8	99.9	99.9	98.2	98.2
2016	47	99.6	99.7	100.0	99.7	97.7	98.5
2017	79	99.7	100.1	99.4	99.9	97.7	97.7
2018	63	101.0	101.3	100.8	101.2	98.8	98.8
2019	49	98.4	97.7	98.6	98.1	96.3	96.8
2020	29	101.6	103.1	101.6	102.8	99.1	99.6



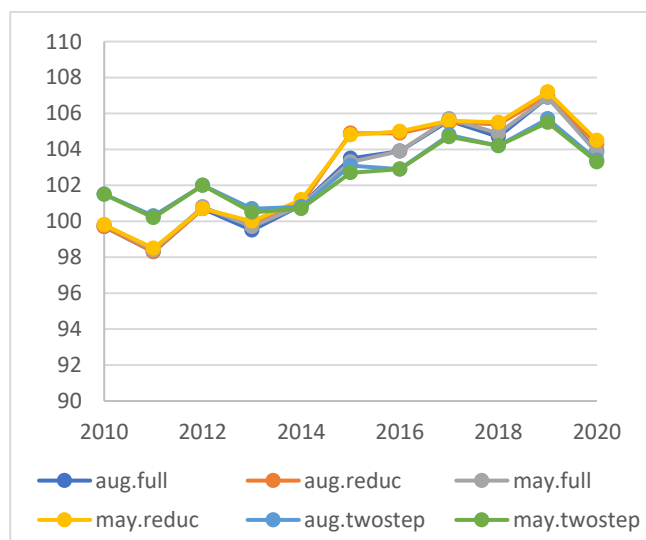
bv4

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.984	0.988	0.998
2011	214	0.979	0.981	0.998
2012	151	0.982	0.985	0.998
2013	119	0.891	0.897	0.997
2014	73	0.838	0.828	0.997
2015	50	0.743	0.761	0.995
2016	47	0.845	0.812	0.950
2017	79	0.888	0.902	0.987
2018	63	0.806	0.763	0.971
2019	49	0.848	0.887	0.978
2020	29	0.861	0.881	0.986

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	99.7	99.7	99.8	99.8	101.5	101.5
2011	214	98.3	98.3	98.4	98.5	100.3	100.2
2012	151	100.7	100.7	100.8	100.7	102.0	102.0
2013	119	99.5	99.9	99.7	100.0	100.7	100.5
2014	73	100.9	101.0	100.9	101.2	100.8	100.7
2015	50	103.5	104.9	103.3	104.8	103.1	102.7
2016	47	103.9	104.9	103.9	105.0	102.9	102.9
2017	79	105.6	105.5	105.7	105.6	104.8	104.7
2018	63	104.7	105.4	104.9	105.5	104.2	104.2
2019	49	106.9	107.0	106.9	107.2	105.7	105.5
2020	29	103.9	104.3	103.8	104.5	103.4	103.3



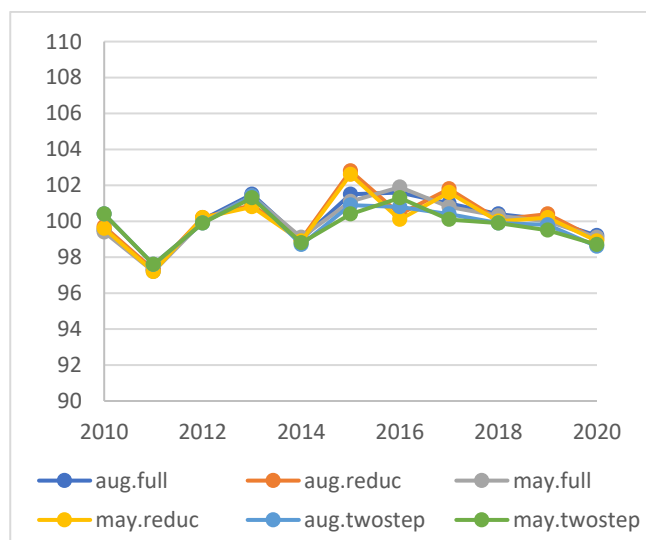
bv5

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.989	0.990	0.998
2011	214	0.983	0.985	0.998
2012	151	0.983	0.985	0.998
2013	119	0.912	0.911	0.998
2014	73	0.918	0.914	0.998
2015	50	0.861	0.865	0.996
2016	47	0.802	0.768	0.963
2017	79	0.914	0.924	0.989
2018	63	0.904	0.887	0.990
2019	49	0.894	0.894	0.991
2020	29	0.900	0.880	0.992

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	99.5	99.7	99.4	99.6	100.4	100.4
2011	214	97.3	97.3	97.2	97.2	97.6	97.6
2012	151	100.1	100.2	100.0	100.2	99.9	99.9
2013	119	101.5	100.9	101.4	100.8	101.4	101.3
2014	73	99.0	99.0	99.1	98.9	98.7	98.8
2015	50	101.5	102.8	101.1	102.6	100.9	100.4
2016	47	101.6	100.4	101.9	100.1	100.8	101.3
2017	79	101.0	101.8	100.8	101.6	100.4	100.1
2018	63	100.4	100.1	100.3	100.0	99.9	99.9
2019	49	100.1	100.4	100.0	100.2	99.8	99.5
2020	29	99.2	99.0	99.1	98.9	98.6	98.7



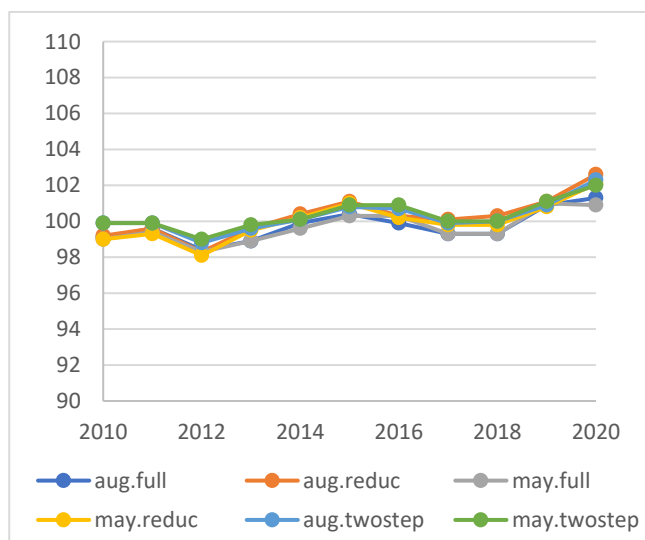
bv6

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.989	0.990	0.999
2011	214	0.988	0.989	0.999
2012	151	0.993	0.993	0.999
2013	119	0.920	0.924	0.998
2014	73	0.850	0.848	0.998
2015	50	0.863	0.857	0.997
2016	47	0.841	0.861	0.971
2017	79	0.851	0.838	0.978
2018	63	0.902	0.888	0.989
2019	49	0.835	0.847	0.982
2020	29	0.923	0.934	0.993

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	99.1	99.2	99.0	99.0	99.9	99.9
2011	214	99.6	99.6	99.4	99.3	99.9	99.9
2012	151	98.4	98.3	98.3	98.1	98.8	99.0
2013	119	98.9	99.6	98.9	99.5	99.6	99.8
2014	73	99.9	100.4	99.6	100.2	100.1	100.1
2015	50	100.4	101.1	100.3	101.0	100.8	100.9
2016	47	99.9	100.3	100.3	100.2	100.7	100.9
2017	79	99.3	100.1	99.3	99.8	99.9	100.0
2018	63	99.3	100.3	99.3	99.8	100.0	100.0
2019	49	100.9	101.1	101.0	100.8	100.9	101.1
2020	29	101.3	102.6	100.9	102.1	102.3	102.0

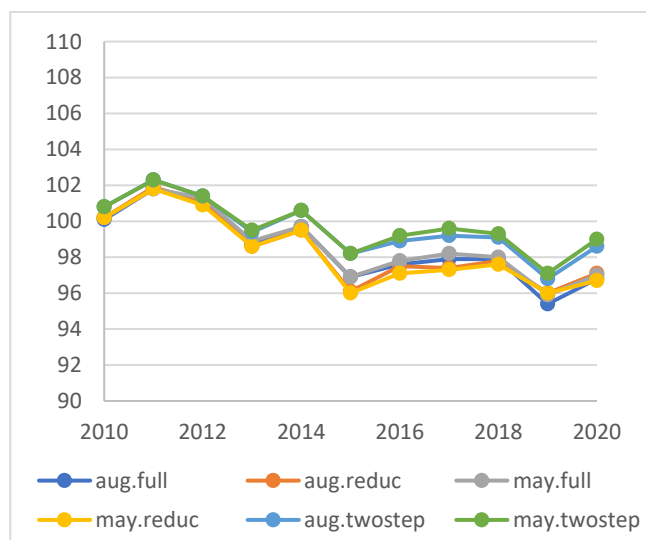
**bv7**

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.988	0.990	0.999
2011	214	0.986	0.989	0.999
2012	151	0.987	0.992	0.999
2013	119	0.944	0.944	0.998
2014	73	0.929	0.930	0.999
2015	50	0.903	0.892	0.998
2016	47	0.851	0.881	0.959
2017	79	0.927	0.945	0.980
2018	63	0.893	0.912	0.987
2019	49	0.893	0.937	0.975
2020	29	0.911	0.946	0.994

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	100.1	100.2	100.2	100.2	100.8	100.8
2011	214	101.8	101.9	101.8	101.8	102.3	102.3
2012	151	101.2	101.1	101.3	100.9	101.4	101.4
2013	119	98.7	98.6	98.9	98.6	99.4	99.5
2014	73	99.7	99.5	99.7	99.5	100.6	100.6
2015	50	96.9	96.1	96.9	96.0	98.2	98.2
2016	47	97.6	97.5	97.8	97.1	98.9	99.2
2017	79	97.9	97.4	98.2	97.3	99.2	99.6
2018	63	97.9	97.8	98.0	97.6	99.1	99.3
2019	49	95.4	96.0	95.9	96.0	96.8	97.1
2020	29	96.8	97.1	97.0	96.7	98.6	99.0



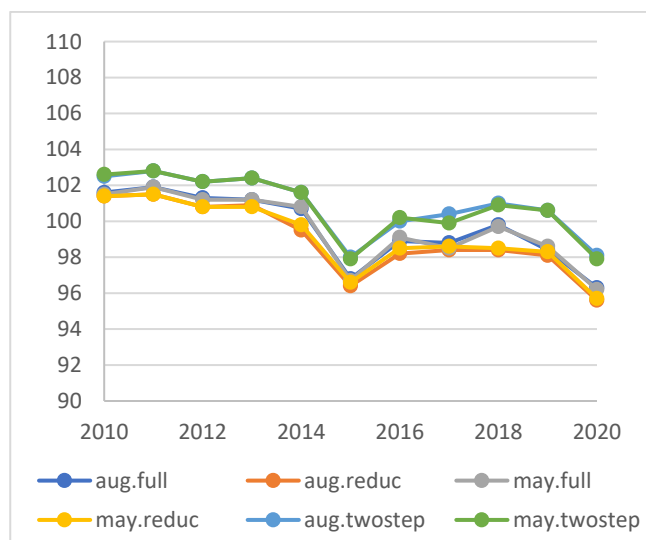
bv9

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.986	0.990	0.998
2011	214	0.983	0.989	0.998
2012	151	0.990	0.992	0.999
2013	119	0.917	0.912	0.997
2014	73	0.918	0.926	0.997
2015	50	0.890	0.869	0.998
2016	47	0.826	0.858	0.967
2017	79	0.884	0.905	0.990
2018	63	0.907	0.925	0.990
2019	49	0.899	0.883	0.988
2020	29	0.936	0.951	0.987

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	101.6	101.4	101.5	101.4	102.5	102.6
2011	214	101.9	101.5	101.9	101.5	102.8	102.8
2012	151	101.3	100.8	101.2	100.8	102.2	102.2
2013	119	101.2	100.9	101.2	100.8	102.4	102.4
2014	73	100.7	99.5	100.8	99.8	101.6	101.6
2015	50	96.8	96.4	96.7	96.6	98.0	97.9
2016	47	98.9	98.2	99.1	98.5	100.0	100.2
2017	79	98.8	98.4	98.5	98.6	100.4	99.9
2018	63	99.8	98.4	99.7	98.5	101.0	100.9
2019	49	98.4	98.1	98.6	98.3	100.6	100.6
2020	29	96.3	95.6	96.2	95.7	98.1	97.9



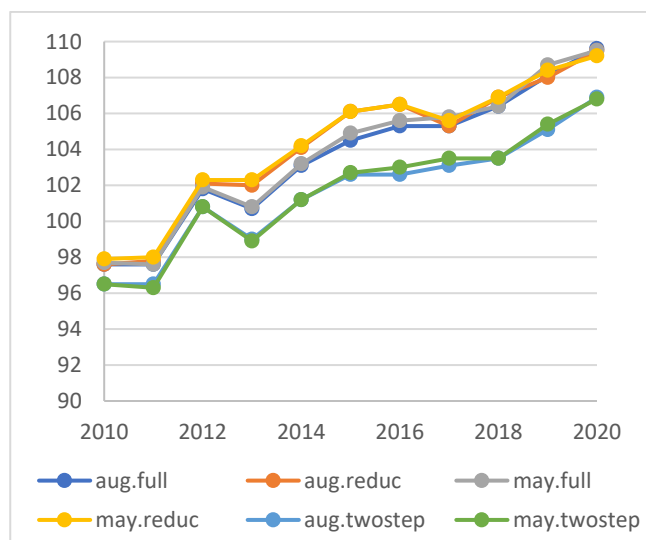
bv10

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.976	0.981	0.997
2011	214	0.983	0.987	0.997
2012	151	0.979	0.983	0.998
2013	119	0.862	0.874	0.995
2014	73	0.850	0.855	0.995
2015	50	0.768	0.809	0.994
2016	47	0.680	0.716	0.961
2017	79	0.838	0.867	0.990
2018	63	0.771	0.770	0.971
2019	49	0.833	0.862	0.985
2020	29	0.885	0.915	0.993

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	97.6	97.6	97.7	97.9	96.5	96.5
2011	214	97.6	97.8	97.6	98.0	96.5	96.3
2012	151	101.8	102.1	101.9	102.3	100.8	100.8
2013	119	100.7	102.0	100.8	102.3	99.0	98.9
2014	73	103.1	104.1	103.2	104.2	101.2	101.2
2015	50	104.5	106.1	104.9	106.1	102.6	102.7
2016	47	105.3	106.5	105.6	106.5	102.6	103.0
2017	79	105.3	105.3	105.8	105.6	103.1	103.5
2018	63	106.4	106.9	106.4	106.9	103.5	103.5
2019	49	108.1	108.0	108.7	108.4	105.1	105.4
2020	29	109.6	109.5	109.5	109.2	106.9	106.8



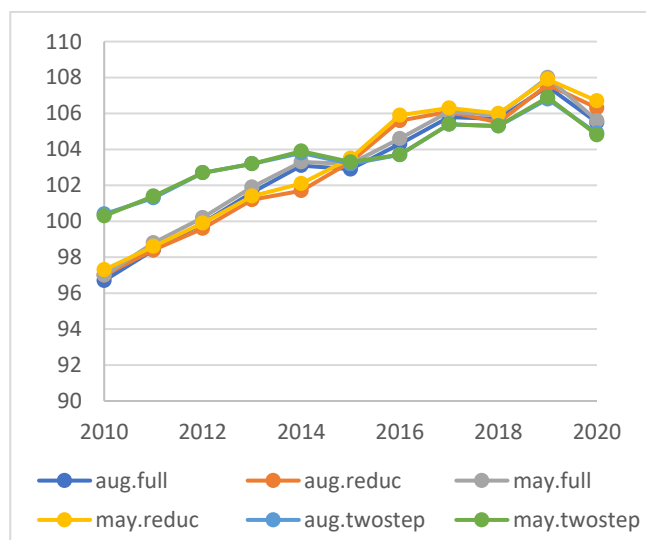
bv11

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.986	0.987	0.998
2011	214	0.987	0.987	0.998
2012	151	0.981	0.983	0.998
2013	119	0.844	0.838	0.996
2014	73	0.839	0.847	0.998
2015	50	0.864	0.883	0.995
2016	47	0.816	0.802	0.981
2017	79	0.860	0.863	0.991
2018	63	0.859	0.872	0.988
2019	49	0.802	0.809	0.986
2020	29	0.874	0.873	0.992

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	96.7	97.0	97.0	97.3	100.4	100.3
2011	214	98.4	98.4	98.8	98.6	101.3	101.4
2012	151	99.9	99.6	100.2	99.9	102.7	102.7
2013	119	101.6	101.2	101.9	101.4	103.2	103.2
2014	73	103.1	101.7	103.3	102.1	103.8	103.9
2015	50	102.9	103.3	103.2	103.5	103.2	103.3
2016	47	104.3	105.6	104.6	105.9	103.7	103.7
2017	79	105.8	106.1	106.1	106.3	105.4	105.4
2018	63	105.7	105.5	105.9	106.0	105.3	105.3
2019	49	107.5	107.6	108.0	107.9	106.8	106.9
2020	29	105.5	106.3	105.6	106.7	104.9	104.8

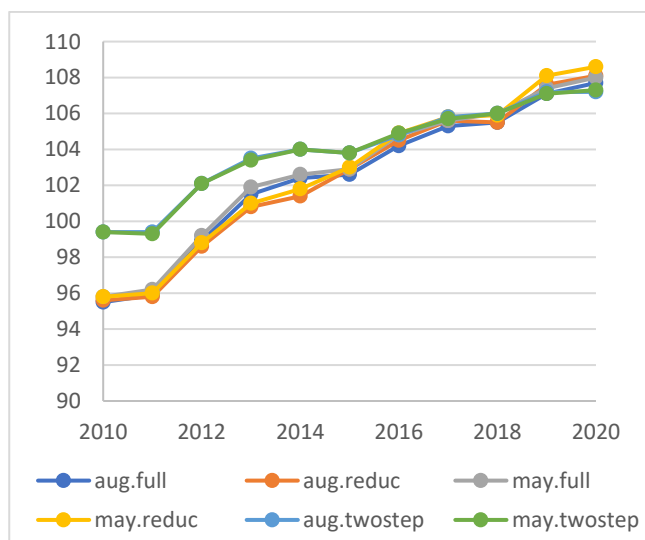
**bv12**

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.987	0.988	0.999
2011	214	0.988	0.989	0.999
2012	151	0.989	0.990	0.999
2013	119	0.892	0.893	0.997
2014	73	0.917	0.930	0.998
2015	50	0.923	0.929	0.997
2016	47	0.835	0.854	0.961
2017	79	0.873	0.873	0.987
2018	63	0.872	0.883	0.985
2019	49	0.879	0.873	0.979
2020	29	0.808	0.818	0.990

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	95.5	95.6	95.8	95.8	99.4	99.4
2011	214	95.9	95.8	96.2	96.0	99.4	99.3
2012	151	98.9	98.6	99.2	98.8	102.1	102.1
2013	119	101.5	100.8	101.9	101.0	103.5	103.4
2014	73	102.4	101.4	102.6	101.8	104.0	104.0
2015	50	102.6	102.9	102.9	103.0	103.8	103.8
2016	47	104.2	104.5	104.8	104.9	104.8	104.9
2017	79	105.3	105.6	105.6	105.8	105.8	105.7
2018	63	105.5	105.5	106.0	105.9	106.0	106.0
2019	49	107.1	107.6	107.4	108.1	107.2	107.1
2020	29	107.7	108.1	108.0	108.6	107.2	107.3



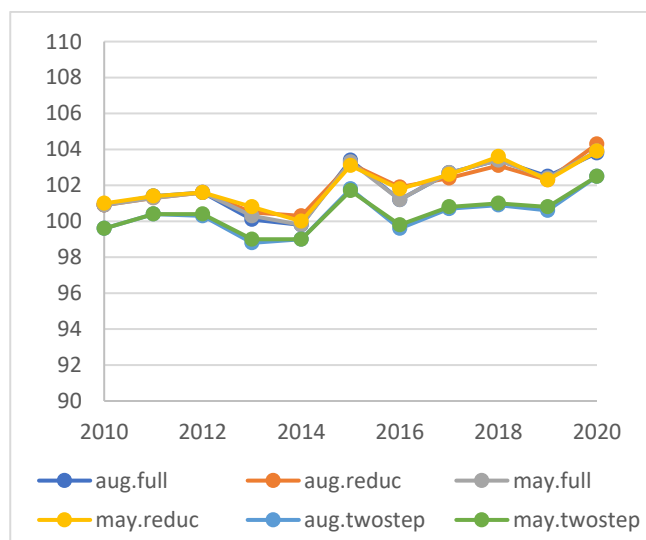
bv13

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.966	0.977	0.997
2011	214	0.975	0.980	0.997
2012	151	0.972	0.977	0.997
2013	119	0.854	0.854	0.996
2014	73	0.751	0.746	0.994
2015	50	0.798	0.802	0.994
2016	47	0.754	0.750	0.962
2017	79	0.821	0.821	0.988
2018	63	0.849	0.853	0.986
2019	49	0.672	0.674	0.981
2020	29	0.809	0.875	0.985

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	100.9	100.9	100.9	101.0	99.6	99.6
2011	214	101.4	101.3	101.3	101.4	100.4	100.4
2012	151	101.6	101.6	101.6	101.6	100.3	100.4
2013	119	100.1	100.5	100.3	100.8	98.8	99.0
2014	73	99.8	100.3	99.8	100.0	99.0	99.0
2015	50	103.4	103.2	103.3	103.1	101.8	101.7
2016	47	101.2	101.9	101.2	101.8	99.6	99.8
2017	79	102.7	102.4	102.7	102.6	100.7	100.8
2018	63	103.4	103.1	103.4	103.6	100.9	101.0
2019	49	102.5	102.3	102.4	102.3	100.6	100.8
2020	29	103.8	104.3	103.9	103.9	102.5	102.5



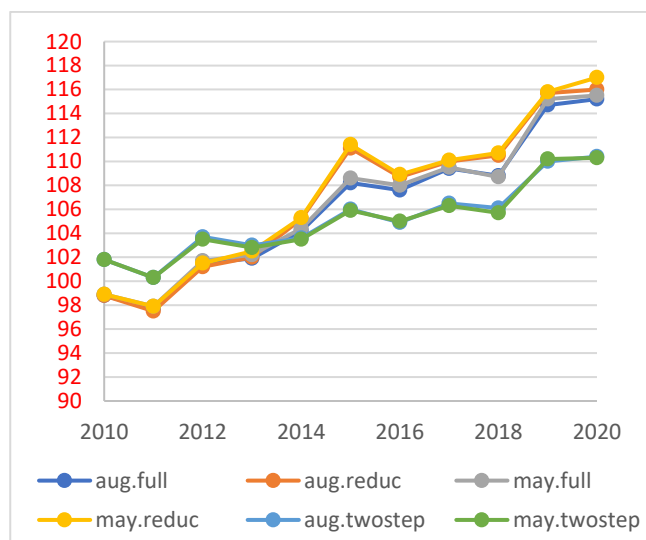
bv16

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.981	0.988	0.998
2011	214	0.977	0.981	0.997
2012	151	0.975	0.980	0.997
2013	119	0.849	0.866	0.997
2014	73	0.875	0.886	0.997
2015	50	0.829	0.818	0.995
2016	47	0.739	0.807	0.968
2017	79	0.931	0.930	0.990
2018	63	0.898	0.914	0.990
2019	49	0.871	0.904	0.982
2020	29	0.883	0.934	0.988

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	98.8	98.8	98.9	98.9	101.8	101.8
2011	214	97.7	97.5	97.9	97.9	100.3	100.3
2012	151	101.5	101.2	101.7	101.5	103.7	103.5
2013	119	101.9	102.0	102.2	102.5	103.0	102.8
2014	73	104.2	105.2	104.4	105.3	103.6	103.5
2015	50	108.2	111.1	108.6	111.4	106.0	105.9
2016	47	107.6	108.7	108.0	108.9	104.9	105.0
2017	79	109.4	110.0	109.5	110.1	106.5	106.3
2018	63	108.8	110.5	108.7	110.7	106.1	105.7
2019	49	114.7	115.7	115.2	115.8	110.0	110.2
2020	29	115.2	116.0	115.5	117.0	110.4	110.3

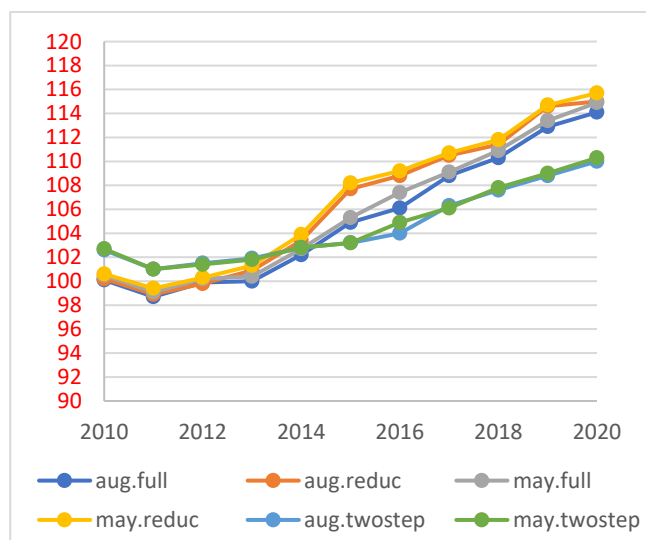
**bv17**

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.984	0.989	0.998
2011	214	0.973	0.978	0.997
2012	151	0.977	0.983	0.998
2013	119	0.878	0.888	0.998
2014	73	0.867	0.875	0.998
2015	50	0.788	0.765	0.996
2016	47	0.808	0.840	0.960
2017	79	0.890	0.929	0.989
2018	63	0.849	0.848	0.989
2019	49	0.864	0.885	0.986
2020	29	0.894	0.931	0.992

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	100.1	100.2	100.5	100.6	102.6	102.7
2011	214	98.7	98.9	99.1	99.4	101.0	101.0
2012	151	99.9	99.8	100.2	100.3	101.5	101.4
2013	119	100.0	100.9	100.4	101.3	101.9	101.8
2014	73	102.2	103.4	102.7	103.9	102.8	102.8
2015	50	104.9	107.7	105.3	108.2	103.2	103.2
2016	47	106.1	108.8	107.4	109.2	104.0	104.9
2017	79	108.8	110.5	109.1	110.7	106.3	106.1
2018	63	110.3	111.4	110.9	111.8	107.6	107.8
2019	49	112.9	114.6	113.4	114.7	108.8	109.0
2020	29	114.1	115.0	114.9	115.7	110.0	110.3



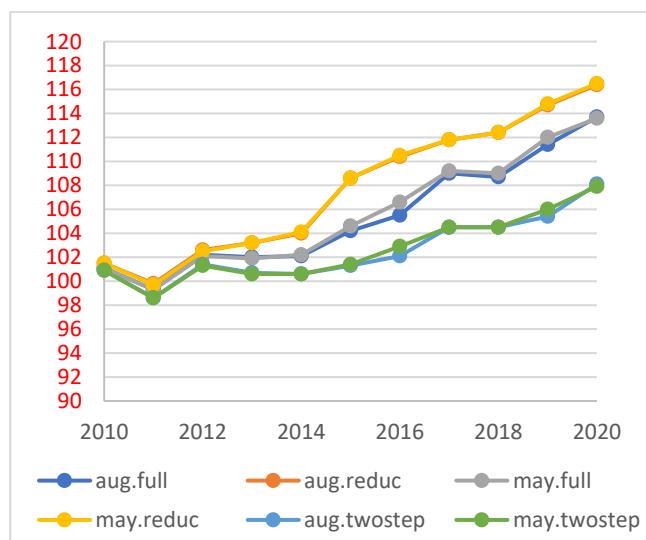
bv18

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.989	0.990	0.999
2011	214	0.981	0.981	0.998
2012	151	0.983	0.985	0.998
2013	119	0.900	0.905	0.998
2014	73	0.902	0.903	0.995
2015	50	0.790	0.791	0.996
2016	47	0.791	0.836	0.959
2017	79	0.877	0.893	0.979
2018	63	0.859	0.866	0.987
2019	49	0.882	0.890	0.984
2020	29	0.876	0.876	0.993

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	101.1	101.5	101.1	101.5	100.9	100.9
2011	214	99.3	99.8	99.3	99.7	98.6	98.6
2012	151	102.2	102.6	102.1	102.5	101.4	101.3
2013	119	102.0	103.2	101.9	103.2	100.7	100.6
2014	73	102.1	104.0	102.2	104.1	100.6	100.6
2015	50	104.2	108.6	104.6	108.6	101.3	101.4
2016	47	105.5	110.4	106.6	110.5	102.1	102.9
2017	79	109.0	111.8	109.2	111.8	104.5	104.5
2018	63	108.7	112.4	109.0	112.4	104.5	104.5
2019	49	111.4	114.7	112.0	114.8	105.4	106.0
2020	29	113.7	116.4	113.6	116.5	108.1	107.9



bv19

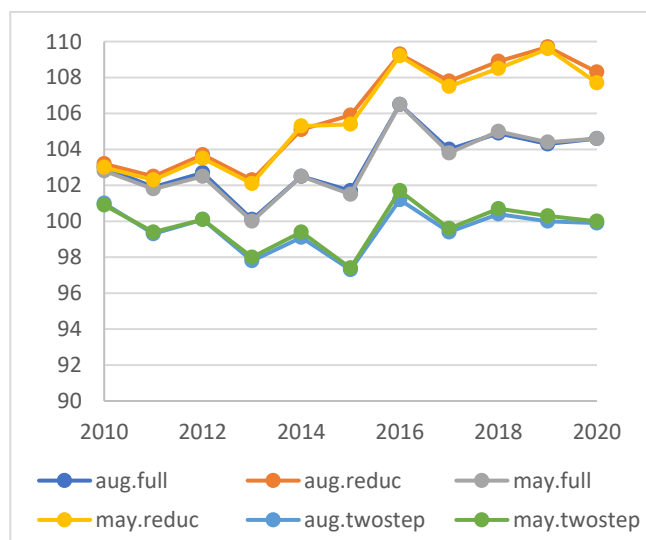
Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.983	0.987	0.998
2011	214	0.981	0.984	0.998
2012	151	0.980	0.981	0.998
2013	119	0.879	0.880	0.997
2014	73	0.846	0.859	0.997
2015	50	0.785	0.750	0.997
2016	47	0.778	0.799	0.975
2017	79	0.858	0.868	0.985
2018	63	0.842	0.857	0.987
2019	49	0.876	0.891	0.979
2020	29	0.905	0.906	0.986

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	103.0	103.2	102.8	103.0	101.0	100.9
2011	214	101.9	102.5	101.8	102.3	99.3	99.4
2012	151	102.7	103.7	102.5	103.5	100.1	100.1
2013	119	100.1	102.3	100.0	102.1	97.8	98.0
2014	73	102.5	105.1	102.5	105.3	99.1	99.4
2015	50	101.7	105.9	101.5	105.4	97.3	97.4
2016	47	106.5	109.3	106.5	109.2	101.2	101.7
2017	79	104.0	107.8	103.8	107.5	99.4	99.6
2018	63	104.9	108.9	105.0	108.5	100.4	100.7
2019	49	104.3	109.7	104.4	109.6	100.0	100.3
2020	29	104.6	108.3	104.6	107.7	99.9	100.0

Mælkeafgiftsfonden



bv20

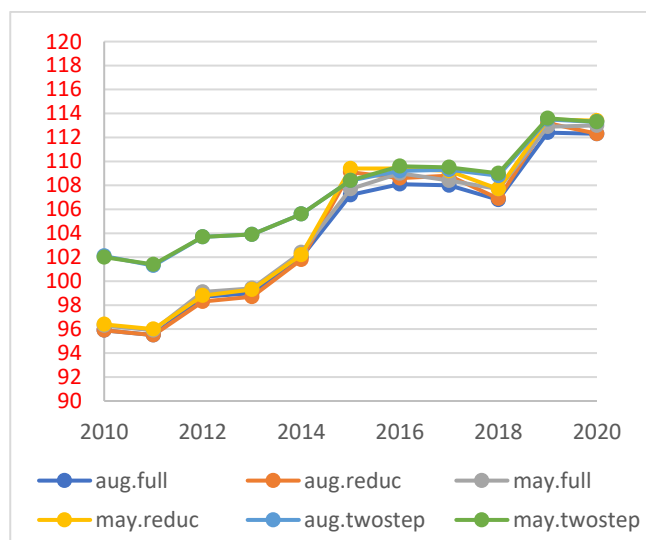
Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.988	0.992	0.999
2011	214	0.986	0.991	0.998
2012	151	0.989	0.990	0.999
2013	119	0.880	0.887	0.998
2014	73	0.903	0.910	0.998
2015	50	0.754	0.782	0.997
2016	47	0.873	0.901	0.973
2017	79	0.912	0.926	0.990
2018	63	0.900	0.887	0.988
2019	49	0.816	0.893	0.983
2020	29	0.869	0.871	0.991

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	95.9	95.9	96.3	96.4	102.1	102.0
2011	214	95.5	95.5	95.9	96.0	101.3	101.4
2012	151	98.7	98.3	99.1	98.8	103.7	103.7
2013	119	99.0	98.7	99.4	99.3	103.9	103.9
2014	73	102.0	101.8	102.4	102.2	105.6	105.6
2015	50	107.2	109.1	107.7	109.4	108.4	108.4
2016	47	108.1	108.6	109.0	109.4	109.2	109.6
2017	79	108.0	108.8	108.4	109.2	109.3	109.5
2018	63	106.8	106.9	107.7	107.7	108.8	109.0
2019	49	112.4	113.2	112.9	113.5	113.5	113.6
2020	29	112.3	112.3	113.0	113.4	113.3	113.3

Mælkeafgiftsfonden



bv21

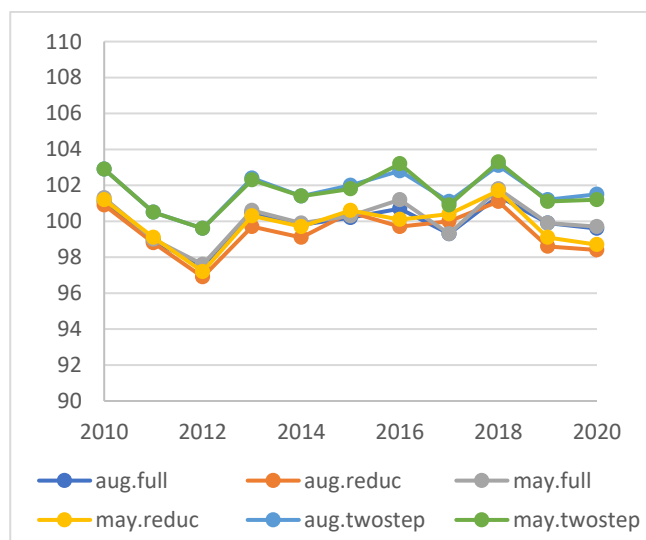
Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.987	0.990	0.998
2011	214	0.988	0.990	0.999
2012	151	0.987	0.991	0.999
2013	119	0.963	0.966	0.999
2014	73	0.946	0.944	0.998
2015	50	0.909	0.920	0.998
2016	47	0.773	0.820	0.978
2017	79	0.874	0.896	0.993
2018	63	0.861	0.871	0.994
2019	49	0.897	0.908	0.993
2020	29	0.857	0.868	0.982

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	101.1	100.9	101.3	101.2	102.9	102.9
2011	214	98.9	98.8	99.0	99.1	100.5	100.5
2012	151	97.5	96.9	97.6	97.2	99.6	99.6
2013	119	100.5	99.7	100.6	100.3	102.4	102.3
2014	73	99.8	99.1	99.9	99.7	101.4	101.4
2015	50	100.2	100.5	100.3	100.6	102.0	101.8
2016	47	100.7	99.7	101.2	100.1	102.8	103.2
2017	79	99.3	100.0	99.3	100.4	101.1	100.9
2018	63	101.4	101.1	101.8	101.7	103.1	103.3
2019	49	99.9	98.6	99.9	99.1	101.2	101.1
2020	29	99.6	98.4	99.7	98.7	101.5	101.2

Mælkeafgiftsfonden



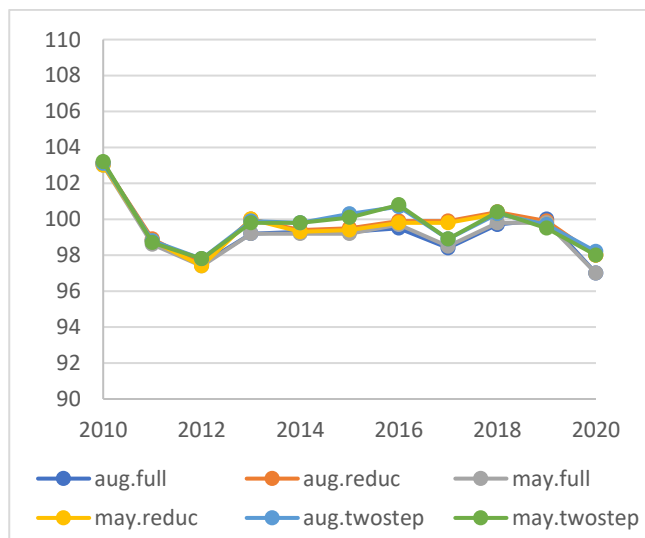
bv22

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.989	0.989	0.999
2011	214	0.990	0.991	0.999
2012	151	0.991	0.992	0.999
2013	119	0.908	0.913	0.998
2014	73	0.916	0.914	0.999
2015	50	0.859	0.867	0.999
2016	47	0.826	0.855	0.976
2017	79	0.861	0.866	0.995
2018	63	0.878	0.882	0.992
2019	49	0.909	0.929	0.993
2020	29	0.902	0.904	0.992

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	103.1	103.1	103.0	103.0	103.1	103.2
2011	214	98.8	98.9	98.6	98.8	98.8	98.7
2012	151	97.5	97.5	97.4	97.4	97.8	97.8
2013	119	99.2	100.0	99.2	100.0	99.9	99.8
2014	73	99.3	99.4	99.2	99.3	99.8	99.8
2015	50	99.3	99.5	99.2	99.4	100.3	100.1
2016	47	99.5	99.9	99.7	99.8	100.7	100.8
2017	79	98.4	99.9	98.5	99.8	98.9	98.9
2018	63	99.7	100.4	99.8	100.3	100.3	100.4
2019	49	100.0	99.9	99.8	99.7	99.7	99.5
2020	29	97.0	98.0	97.0	98.0	98.2	98.0



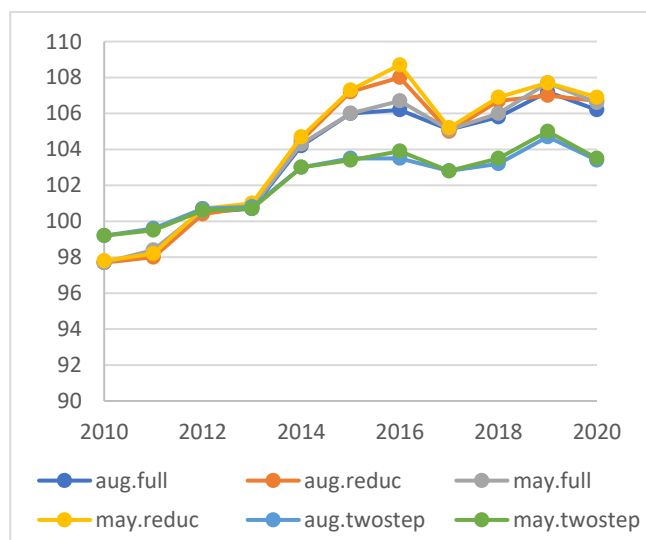
bv23

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.981	0.989	0.998
2011	214	0.982	0.988	0.998
2012	151	0.984	0.990	0.998
2013	119	0.883	0.894	0.998
2014	73	0.906	0.911	0.998
2015	50	0.877	0.856	0.997
2016	47	0.818	0.810	0.964
2017	79	0.928	0.919	0.993
2018	63	0.875	0.885	0.990
2019	49	0.894	0.915	0.986
2020	29	0.885	0.918	0.990

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	97.7	97.7	97.7	97.8	99.2	99.2
2011	214	98.3	98.0	98.4	98.2	99.6	99.5
2012	151	100.5	100.4	100.6	100.7	100.7	100.6
2013	119	100.7	100.8	100.8	101.0	100.8	100.7
2014	73	104.2	104.5	104.3	104.7	103.0	103.0
2015	50	106.0	107.2	106.0	107.3	103.5	103.4
2016	47	106.2	108.0	106.7	108.7	103.5	103.9
2017	79	105.1	105.0	105.1	105.2	102.8	102.8
2018	63	105.8	106.7	106.0	106.9	103.2	103.5
2019	49	107.2	107.0	107.7	107.7	104.7	105.0
2020	29	106.2	106.7	106.6	106.9	103.4	103.5



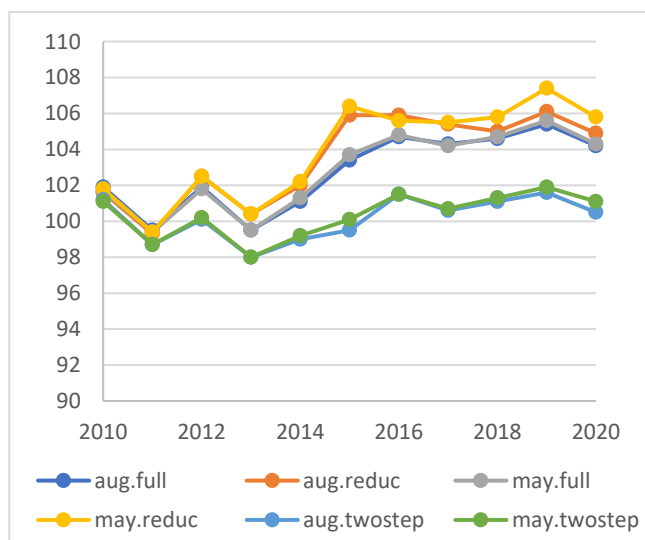
bv24

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.971	0.987	0.998
2011	214	0.968	0.988	0.998
2012	151	0.971	0.987	0.999
2013	119	0.852	0.895	0.998
2014	73	0.894	0.910	0.998
2015	50	0.790	0.831	0.997
2016	47	0.746	0.814	0.978
2017	79	0.862	0.927	0.992
2018	63	0.839	0.918	0.989
2019	49	0.843	0.917	0.985
2020	29	0.844	0.891	0.992

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	101.9	101.6	101.7	101.8	101.2	101.1
2011	214	99.5	99.3	99.4	99.4	98.7	98.7
2012	151	101.9	102.5	101.8	102.5	100.1	100.2
2013	119	99.5	100.4	99.5	100.4	98.0	98.0
2014	73	101.1	102.0	101.3	102.2	99.0	99.2
2015	50	103.4	105.9	103.7	106.4	99.5	100.1
2016	47	104.7	105.9	104.8	105.6	101.5	101.5
2017	79	104.3	105.4	104.2	105.5	100.6	100.7
2018	63	104.6	105.0	104.7	105.8	101.1	101.3
2019	49	105.4	106.1	105.6	107.4	101.6	101.9
2020	29	104.2	104.9	104.3	105.8	100.5	101.1

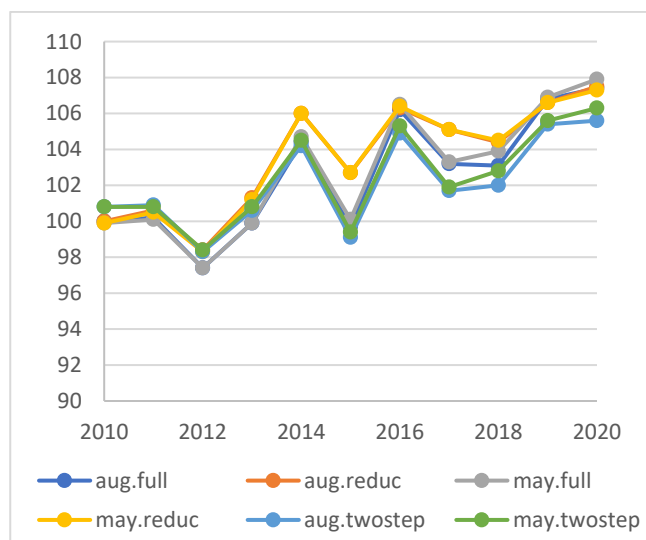
**bv25**

Correlations

Birth year	Number of bulls	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	230	0.981	0.982	0.998
2011	214	0.986	0.987	0.999
2012	151	0.981	0.983	0.999
2013	119	0.895	0.899	0.998
2014	73	0.852	0.860	0.999
2015	50	0.862	0.862	0.998
2016	47	0.779	0.796	0.975
2017	79	0.885	0.884	0.990
2018	63	0.844	0.870	0.992
2019	49	0.852	0.869	0.989
2020	29	0.889	0.891	0.996

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	230	100.0	100.0	99.9	99.9	100.8	100.8
2011	214	100.2	100.6	100.1	100.5	100.9	100.8
2012	151	97.4	98.4	97.4	98.3	98.3	98.4
2013	119	99.9	101.3	99.9	101.2	100.6	100.8
2014	73	104.4	106.0	104.7	106.0	104.2	104.5
2015	50	99.7	102.7	100.1	102.7	99.1	99.4
2016	47	106.2	106.3	106.5	106.4	104.9	105.3
2017	79	103.2	105.1	103.3	105.1	101.7	101.9
2018	63	103.1	104.4	103.9	104.5	102.0	102.8
2019	49	106.8	106.6	106.9	106.6	105.4	105.6
2020	29	107.4	107.5	107.9	107.3	105.6	106.3



Stability Jersey

For Jersey the August run are compared with the May run to check stability of the single step GEBV's

Cows

For Nordic Jersey cows with phenotypes in May run. Both genotyped and nongenotyped females are included.

bv1

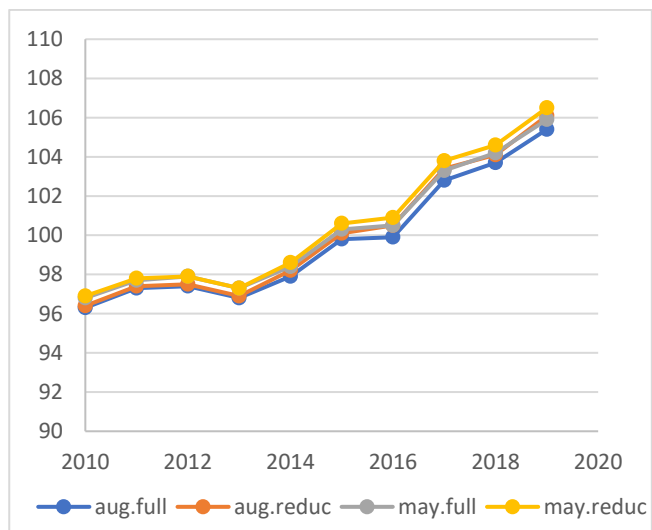
Correlations

Birth year	Number of cows	aug.full_aug.reduc	may.full_may.reduc	aug.full_may.full
2010	8445	0.996	0.997	1.000
2011	8713	0.994	0.995	0.999
2012	8592	0.993	0.994	0.999
2013	7192	0.990	0.991	0.999
2014	7323	0.986	0.988	0.998
2015	6934	0.954	0.955	0.998
2016	6100	0.836	0.835	0.997
2017	5129	0.819	0.815	0.996
2018	3447	0.831	0.833	0.997
2019	248	0.836	0.840	0.992

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8445	96.3	96.4	96.8	96.9
2011	8713	97.3	97.4	97.7	97.8
2012	8592	97.4	97.5	97.9	97.9
2013	7192	96.8	96.9	97.3	97.3
2014	7323	97.9	98.2	98.4	98.6
2015	6934	99.8	100.1	100.3	100.6
2016	6100	99.9	100.5	100.5	100.9
2017	5129	102.8	103.4	103.3	103.8
2018	3447	103.7	104.1	104.2	104.6
2019	248	105.4	106.1	105.9	106.5

Mælkeafgiftsfonden



bv2

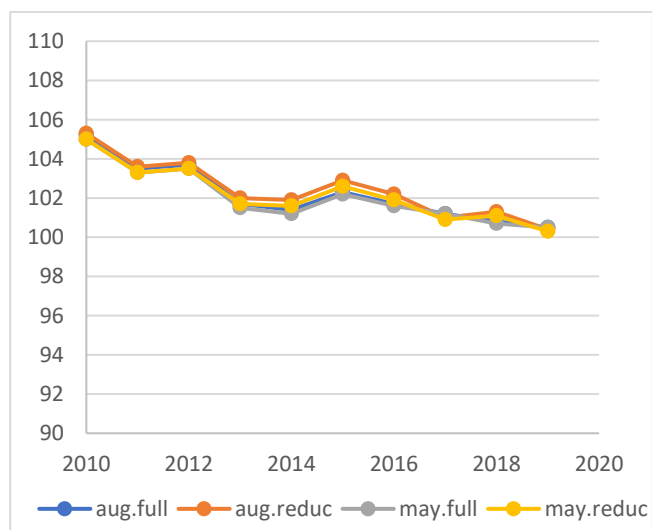
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.994		0.995		0.999	
2011	8761	0.991		0.993		0.999	
2012	8645	0.988		0.990		0.999	
2013	7224	0.984		0.986		0.998	
2014	7362	0.983		0.986		0.998	
2015	6951	0.947		0.949		0.997	
2016	6137	0.860		0.866		0.996	
2017	5142	0.816		0.816		0.996	
2018	3458	0.817		0.801		0.995	
2019	248	0.784		0.766		0.989	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	105.2	105.3	105.0	105.0
2011	8761	103.5	103.6	103.3	103.3
2012	8645	103.7	103.8	103.5	103.5
2013	7224	101.7	102.0	101.5	101.7
2014	7362	101.4	101.9	101.2	101.6
2015	6951	102.3	102.9	102.2	102.6
2016	6137	101.7	102.2	101.6	101.9
2017	5142	101.2	101.0	101.2	100.9
2018	3458	100.8	101.3	100.7	101.1
2019	248	100.5	100.4	100.5	100.3

Mælkeafgiftsfonden



bv3

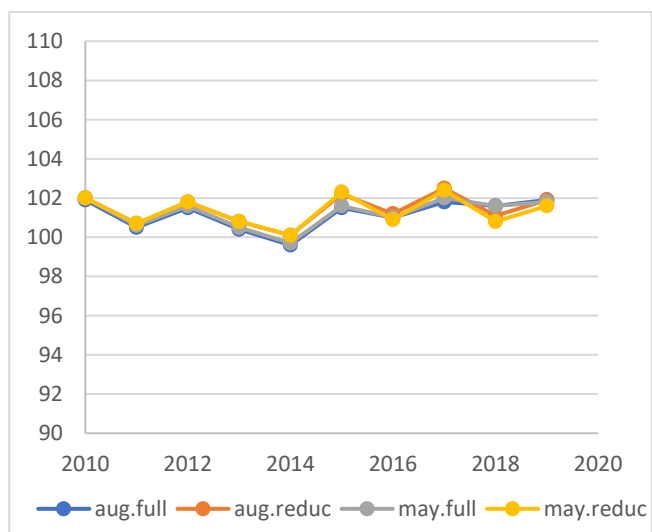
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.991		0.993		0.999	
2011	8761	0.988		0.991		0.999	
2012	8645	0.986		0.989		0.999	
2013	7224	0.983		0.986		0.998	
2014	7362	0.980		0.984		0.998	
2015	6951	0.952		0.954		0.998	
2016	6137	0.827		0.836		0.997	
2017	5142	0.767		0.767		0.996	
2018	3458	0.796		0.786		0.993	
2019	248	0.841		0.851		0.991	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	101.9	102.0	102.0	102.0
2011	8761	100.5	100.7	100.6	100.7
2012	8645	101.5	101.8	101.6	101.8
2013	7224	100.4	100.8	100.5	100.8
2014	7362	99.6	100.1	99.7	100.1
2015	6951	101.5	102.2	101.6	102.3
2016	6137	101.0	101.2	101.0	100.9
2017	5142	101.8	102.5	102.0	102.4
2018	3458	101.6	101.1	101.6	100.8
2019	248	101.9	101.9	101.8	101.6

Mælkeafgiftsfonden



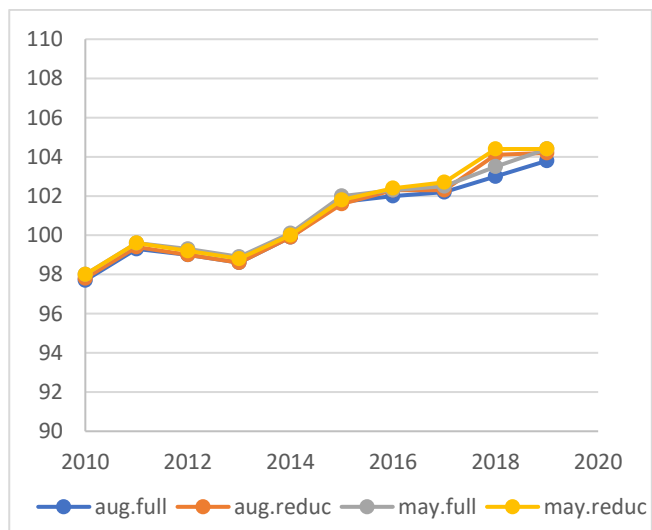
bv4

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.992		0.993		0.999	
2011	8761	0.988		0.990		0.998	
2012	8645	0.986		0.988		0.998	
2013	7224	0.983		0.985		0.998	
2014	7362	0.976		0.979		0.997	
2015	6951	0.934		0.936		0.997	
2016	6137	0.794		0.797		0.996	
2017	5142	0.796		0.805		0.995	
2018	3458	0.779		0.772		0.995	
2019	248	0.814		0.808		0.986	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	97.7	97.8	98.0	98.0
2011	8761	99.3	99.4	99.6	99.6
2012	8645	99.0	99.0	99.3	99.2
2013	7224	98.6	98.6	98.9	98.8
2014	7362	99.9	99.9	100.1	100.0
2015	6951	101.7	101.6	102.0	101.8
2016	6137	102.0	102.3	102.3	102.4
2017	5142	102.2	102.3	102.5	102.7
2018	3458	103.0	104.1	103.5	104.4
2019	248	103.8	104.2	104.4	104.4



bv5

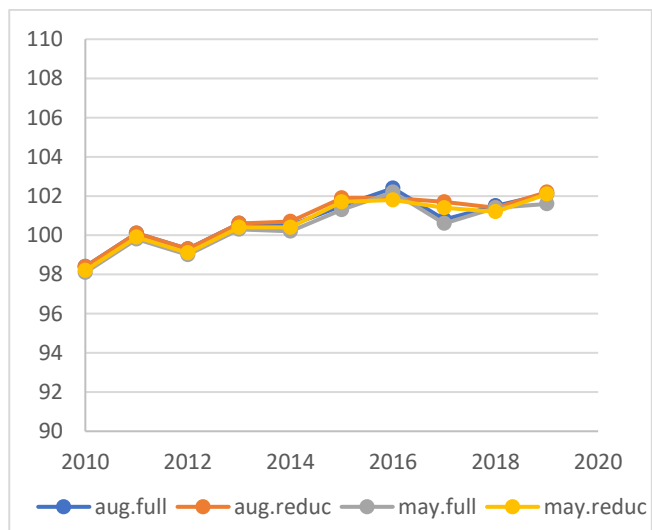
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.993		0.994		0.999	
2011	8761	0.989		0.990		0.999	
2012	8645	0.988		0.990		0.999	
2013	7224	0.983		0.986		0.998	
2014	7362	0.981		0.983		0.998	
2015	6951	0.947		0.950		0.997	
2016	6137	0.871		0.876		0.997	
2017	5142	0.831		0.839		0.996	
2018	3458	0.851		0.849		0.995	
2019	248	0.854		0.851		0.982	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	98.4	98.4	98.1	98.2
2011	8761	100.1	100.1	99.8	99.9
2012	8645	99.3	99.3	99.0	99.1
2013	7224	100.6	100.6	100.3	100.4
2014	7362	100.5	100.7	100.2	100.4
2015	6951	101.5	101.9	101.3	101.7
2016	6137	102.4	101.9	102.2	101.8
2017	5142	100.8	101.7	100.6	101.4
2018	3458	101.5	101.4	101.4	101.2
2019	248	102.1	102.2	101.6	102.1

Mælkeafgiftsfonden



bv6

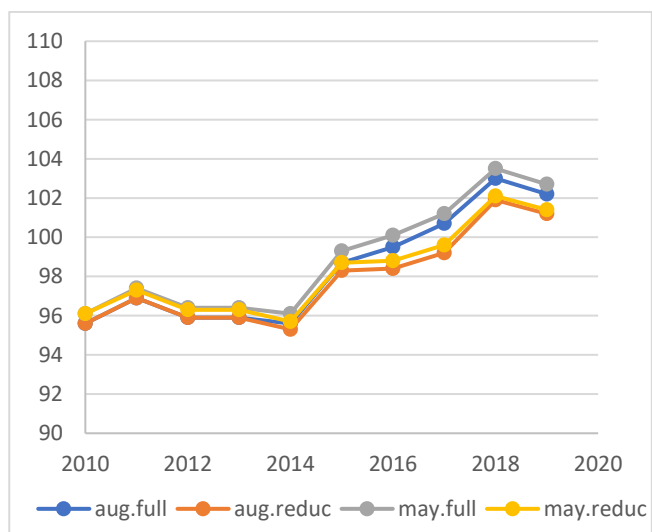
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.994		0.995		0.999	
2011	8745	0.991		0.993		0.999	
2012	8519	0.991		0.993		0.999	
2013	7158	0.985		0.988		0.999	
2014	7278	0.986		0.988		0.998	
2015	6790	0.959		0.962		0.998	
2016	6136	0.843		0.843		0.997	
2017	5142	0.843		0.846		0.996	
2018	3458	0.884		0.884		0.997	
2019	248	0.880		0.885		0.995	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	95.6	95.6	96.1	96.1
2011	8745	96.9	96.9	97.4	97.3
2012	8519	95.9	95.9	96.4	96.3
2013	7158	95.9	95.9	96.4	96.3
2014	7278	95.6	95.3	96.1	95.7
2015	6790	98.7	98.3	99.3	98.7
2016	6136	99.5	98.4	100.1	98.8
2017	5142	100.7	99.2	101.2	99.6
2018	3458	103.0	101.9	103.5	102.1
2019	248	102.2	101.2	102.7	101.4

Mælkeafgiftsfonden



bv7

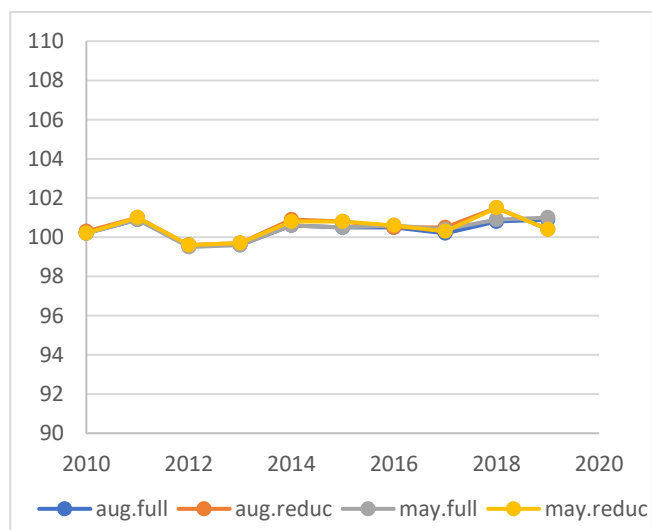
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.995		0.996		0.999	
2011	8761	0.992		0.994		0.999	
2012	8645	0.989		0.991		0.999	
2013	7224	0.987		0.989		0.999	
2014	7362	0.986		0.988		0.998	
2015	6951	0.956		0.957		0.998	
2016	6137	0.839		0.837		0.997	
2017	5142	0.846		0.848		0.996	
2018	3458	0.867		0.867		0.997	
2019	248	0.799		0.797		0.991	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	100.2	100.3	100.2	100.2
2011	8761	100.9	101.0	100.9	101.0
2012	8645	99.6	99.6	99.5	99.6
2013	7224	99.6	99.7	99.6	99.7
2014	7362	100.6	100.9	100.6	100.8
2015	6951	100.5	100.8	100.5	100.8
2016	6137	100.5	100.5	100.6	100.6
2017	5142	100.2	100.5	100.4	100.3
2018	3458	100.8	101.5	100.9	101.5
2019	248	100.9	100.4	101.0	100.4

Mælkeafgiftsfonden



bv9

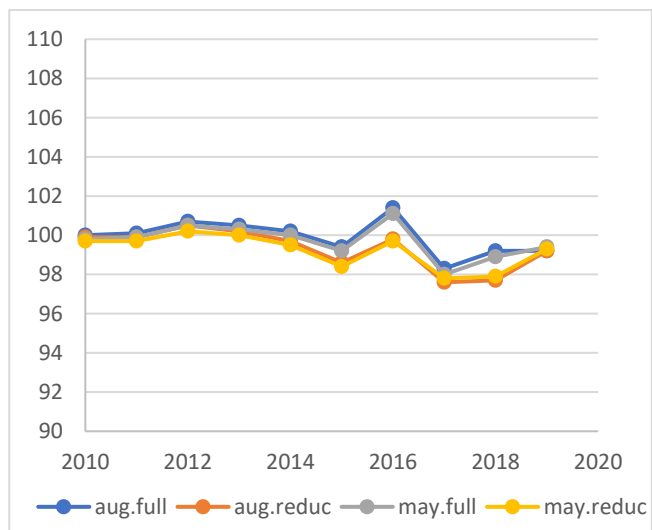
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.989		0.991		0.999	
2011	8761	0.985		0.988		0.998	
2012	8645	0.980		0.983		0.998	
2013	7224	0.978		0.981		0.998	
2014	7362	0.971		0.975		0.997	
2015	6951	0.923		0.929		0.996	
2016	6137	0.791		0.795		0.996	
2017	5142	0.761		0.760		0.995	
2018	3458	0.736		0.732		0.993	
2019	248	0.706		0.754		0.984	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	100.0	99.9	99.8	99.7
2011	8761	100.1	99.9	99.9	99.7
2012	8645	100.7	100.5	100.5	100.2
2013	7224	100.5	100.2	100.3	100.0
2014	7362	100.2	99.7	100.0	99.5
2015	6951	99.4	98.6	99.2	98.4
2016	6137	101.4	99.8	101.1	99.7
2017	5142	98.3	97.6	98.0	97.8
2018	3458	99.2	97.7	98.9	97.9
2019	248	99.2	99.2	99.4	99.3

Mælkeafgiftsfonden



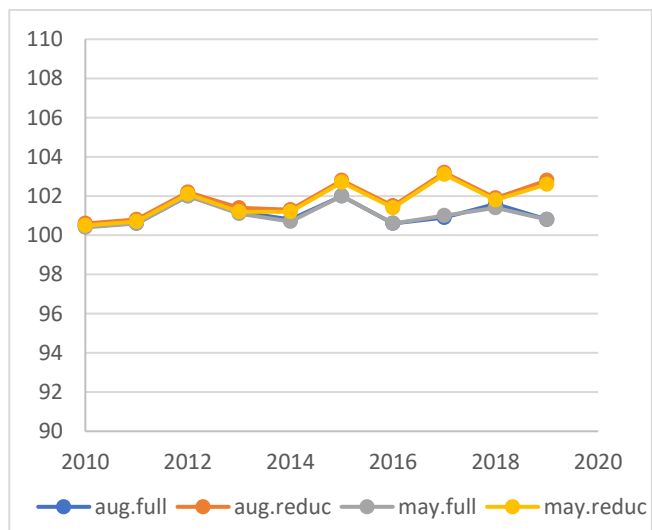
bv10

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.989		0.990		0.999	
2011	8745	0.985		0.986		0.998	
2012	8519	0.984		0.987		0.998	
2013	7158	0.981		0.984		0.998	
2014	7278	0.978		0.981		0.998	
2015	6790	0.932		0.935		0.996	
2016	6136	0.889		0.895		0.997	
2017	5142	0.807		0.813		0.994	
2018	3458	0.862		0.873		0.994	
2019	248	0.825		0.851		0.991	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	100.5	100.6	100.4	100.5
2011	8745	100.6	100.8	100.6	100.7
2012	8519	102.0	102.2	102.0	102.1
2013	7158	101.2	101.4	101.1	101.2
2014	7278	100.8	101.3	100.7	101.2
2015	6790	102.0	102.8	102.0	102.7
2016	6136	100.6	101.5	100.6	101.4
2017	5142	100.9	103.2	101.0	103.1
2018	3458	101.6	101.9	101.4	101.8
2019	248	100.8	102.8	100.8	102.6



bv11

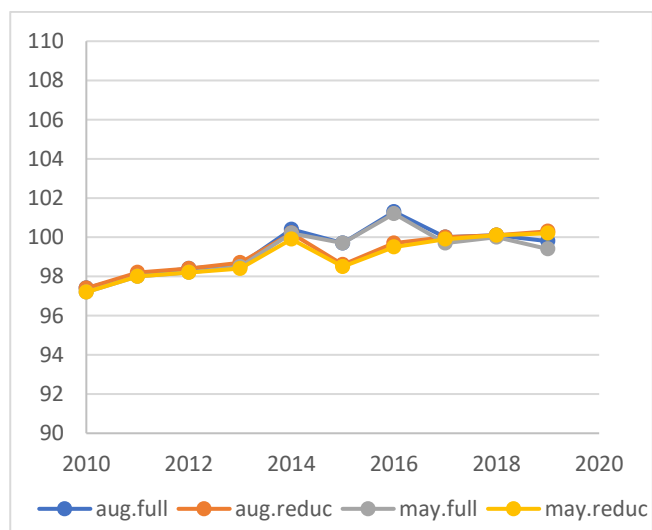
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.991		0.992		0.998	
2011	8745	0.988		0.989		0.998	
2012	8519	0.983		0.985		0.998	
2013	7158	0.982		0.985		0.998	
2014	7278	0.980		0.982		0.998	
2015	6790	0.945		0.948		0.997	
2016	6136	0.873		0.871		0.998	
2017	5142	0.833		0.828		0.996	
2018	3458	0.811		0.806		0.995	
2019	248	0.850		0.853		0.988	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	97.4	97.4	97.2	97.2
2011	8745	98.1	98.2	98.0	98.0
2012	8519	98.4	98.4	98.2	98.2
2013	7158	98.6	98.7	98.5	98.4
2014	7278	100.4	100.2	100.2	99.9
2015	6790	99.7	98.6	99.7	98.5
2016	6136	101.3	99.7	101.2	99.5
2017	5142	100.0	100.0	99.7	99.9
2018	3458	100.1	100.1	100.0	100.1
2019	248	99.8	100.3	99.4	100.2

Mælkeafgiftsfonden



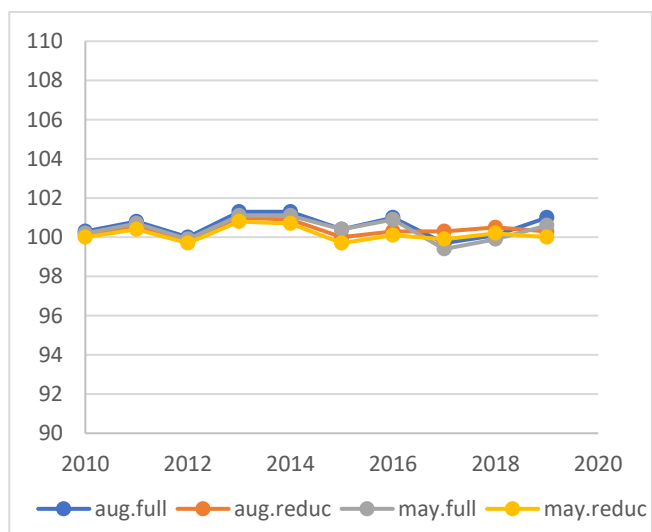
bv12

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.991		0.993		0.999	
2011	8745	0.990		0.991		0.999	
2012	8519	0.987		0.989		0.999	
2013	7158	0.983		0.985		0.998	
2014	7278	0.981		0.983		0.998	
2015	6790	0.959		0.963		0.998	
2016	6136	0.893		0.898		0.998	
2017	5142	0.846		0.851		0.996	
2018	3458	0.833		0.838		0.995	
2019	248	0.858		0.886		0.986	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	100.3	100.1	100.2	100.0
2011	8745	100.8	100.6	100.7	100.4
2012	8519	100.0	99.8	99.9	99.7
2013	7158	101.3	101.0	101.1	100.8
2014	7278	101.3	100.9	101.1	100.7
2015	6790	100.4	100.0	100.4	99.7
2016	6136	101.0	100.3	100.9	100.1
2017	5142	99.7	100.3	99.4	99.9
2018	3458	100.1	100.5	99.9	100.2
2019	248	101.0	100.3	100.6	100.0



bv13

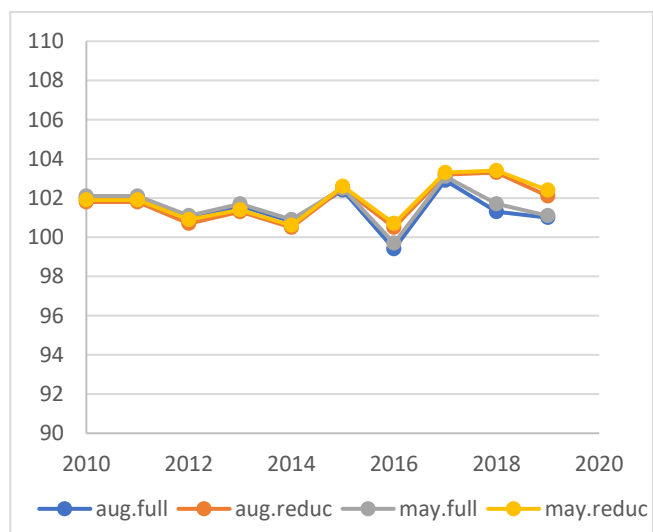
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.987		0.989		0.999	
2011	8761	0.983		0.985		0.998	
2012	8645	0.981		0.983		0.998	
2013	7224	0.976		0.979		0.998	
2014	7362	0.974		0.977		0.997	
2015	6951	0.929		0.932		0.996	
2016	6137	0.805		0.805		0.996	
2017	5142	0.795		0.804		0.993	
2018	3458	0.752		0.752		0.993	
2019	248	0.807		0.815		0.983	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	102.0	101.8	102.1	101.9
2011	8761	102.0	101.8	102.1	101.9
2012	8645	101.0	100.7	101.1	100.9
2013	7224	101.6	101.3	101.7	101.4
2014	7362	100.8	100.5	100.9	100.6
2015	6951	102.4	102.5	102.5	102.6
2016	6137	99.4	100.5	99.7	100.7
2017	5142	102.9	103.2	103.1	103.3
2018	3458	101.3	103.3	101.7	103.4
2019	248	101.0	102.1	101.1	102.4

Mælkeafgiftsfonden



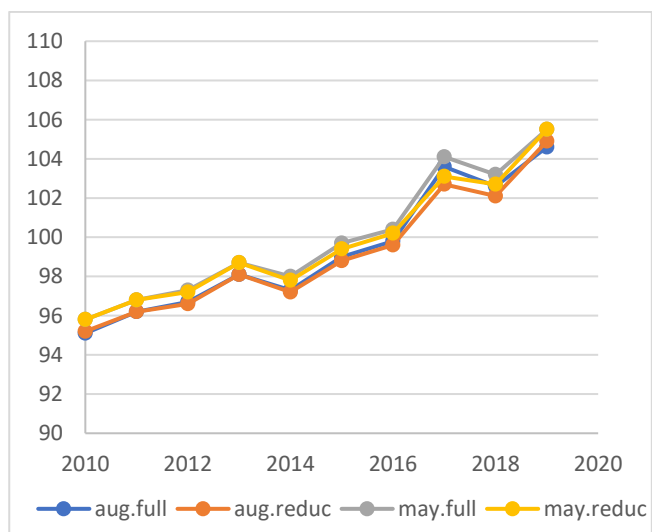
bv16

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.992		0.994		0.999	
2011	8761	0.988		0.991		0.999	
2012	8645	0.987		0.989		0.998	
2013	7224	0.983		0.986		0.998	
2014	7362	0.981		0.984		0.998	
2015	6950	0.947		0.949		0.997	
2016	6137	0.838		0.839		0.997	
2017	5142	0.822		0.827		0.996	
2018	3458	0.775		0.778		0.994	
2019	248	0.840		0.844		0.993	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	95.1	95.2	95.8	95.8
2011	8761	96.2	96.2	96.8	96.8
2012	8645	96.7	96.6	97.3	97.2
2013	7224	98.1	98.1	98.7	98.7
2014	7362	97.3	97.2	98.0	97.8
2015	6950	99.0	98.8	99.7	99.4
2016	6137	99.8	99.6	100.4	100.2
2017	5142	103.6	102.7	104.1	103.1
2018	3458	102.6	102.1	103.2	102.7
2019	248	104.6	104.9	105.5	105.5



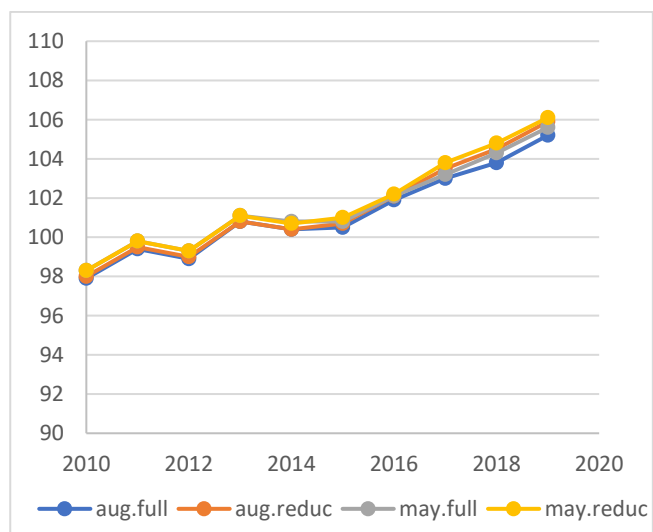
bv17

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.992		0.993		0.999	
2011	8761	0.988		0.990		0.998	
2012	8645	0.986		0.988		0.998	
2013	7224	0.984		0.986		0.998	
2014	7362	0.977		0.980		0.997	
2015	6950	0.938		0.941		0.996	
2016	6137	0.830		0.829		0.996	
2017	5142	0.798		0.790		0.995	
2018	3458	0.785		0.777		0.994	
2019	248	0.784		0.784		0.993	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	97.9	98.0	98.3	98.3
2011	8761	99.4	99.5	99.8	99.8
2012	8645	98.9	99.0	99.3	99.3
2013	7224	100.8	100.8	101.1	101.1
2014	7362	100.4	100.4	100.8	100.7
2015	6950	100.5	100.7	100.8	101.0
2016	6137	101.9	102.1	102.1	102.2
2017	5142	103.0	103.5	103.2	103.8
2018	3458	103.8	104.5	104.3	104.8
2019	248	105.2	105.9	105.6	106.1



bv18

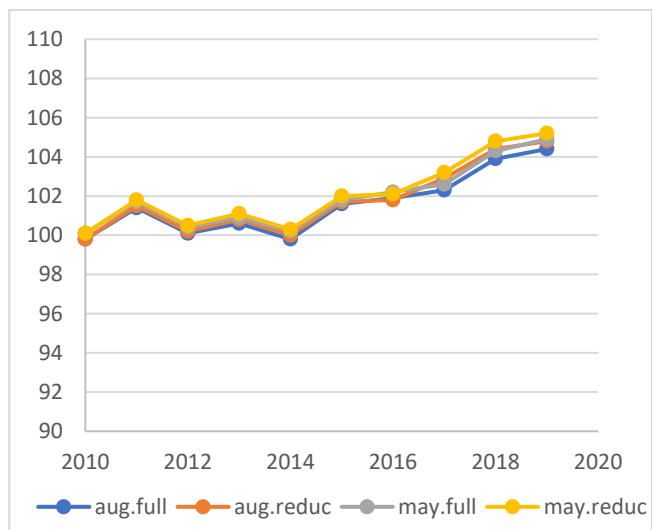
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.992		0.993		0.999	
2011	8745	0.988		0.989		0.999	
2012	8519	0.986		0.987		0.998	
2013	7158	0.982		0.984		0.998	
2014	7278	0.982		0.984		0.998	
2015	6789	0.948		0.951		0.997	
2016	6136	0.806		0.803		0.997	
2017	5142	0.807		0.807		0.996	
2018	3458	0.827		0.823		0.996	
2019	248	0.863		0.861		0.992	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	99.8	99.8	100.1	100.1
2011	8745	101.4	101.5	101.7	101.8
2012	8519	100.1	100.2	100.4	100.5
2013	7158	100.6	100.8	100.9	101.1
2014	7278	99.8	100.0	100.2	100.3
2015	6789	101.6	101.7	101.8	102.0
2016	6136	101.9	101.8	102.2	102.1
2017	5142	102.3	102.9	102.6	103.2
2018	3458	103.9	104.4	104.3	104.8
2019	248	104.4	104.8	104.9	105.2

Mælkeafgiftsfonden



bv19

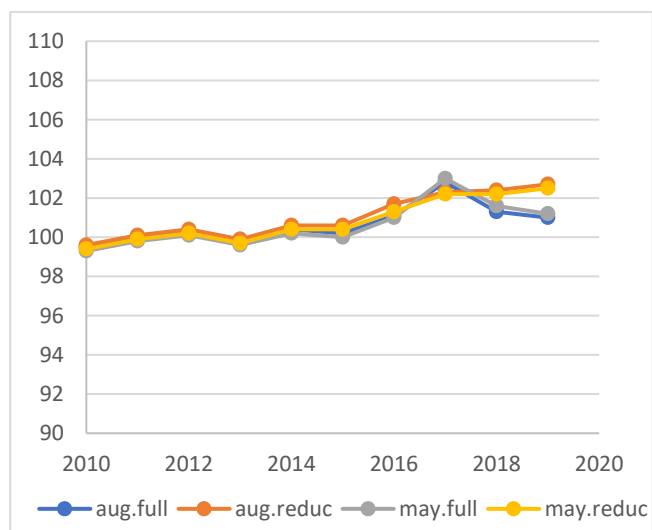
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.994		0.995		0.999	
2011	8761	0.990		0.992		0.999	
2012	8645	0.988		0.990		0.999	
2013	7224	0.985		0.987		0.998	
2014	7362	0.980		0.983		0.997	
2015	6950	0.940		0.944		0.997	
2016	6137	0.856		0.860		0.997	
2017	5142	0.857		0.858		0.996	
2018	3458	0.839		0.843		0.995	
2019	248	0.869		0.862		0.992	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	99.5	99.6	99.3	99.4
2011	8761	100.0	100.1	99.8	99.9
2012	8645	100.2	100.4	100.1	100.2
2013	7224	99.7	99.9	99.6	99.7
2014	7362	100.4	100.6	100.2	100.4
2015	6950	100.2	100.6	100.0	100.4
2016	6137	101.1	101.7	101.0	101.3
2017	5142	102.8	102.3	103.0	102.2
2018	3458	101.3	102.4	101.6	102.2
2019	248	101.0	102.7	101.2	102.5

Mælkeafgiftsfonden



bv20

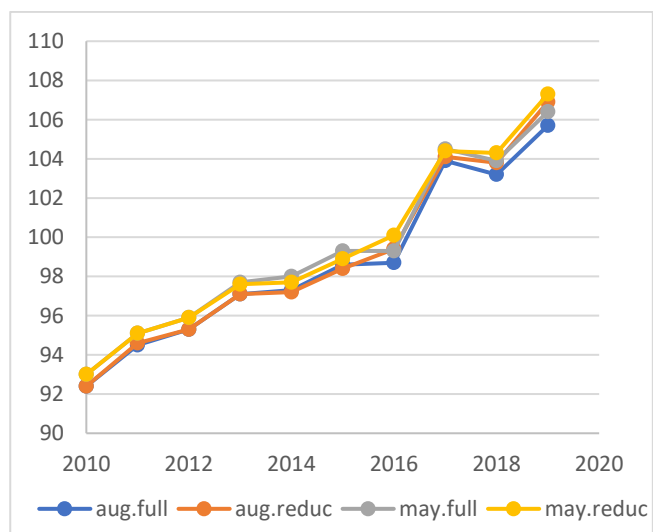
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.995		0.996		0.999	
2011	8761	0.993		0.994		0.999	
2012	8645	0.990		0.992		0.999	
2013	7224	0.987		0.989		0.999	
2014	7362	0.984		0.987		0.998	
2015	6950	0.942		0.943		0.998	
2016	6137	0.838		0.837		0.996	
2017	5142	0.849		0.844		0.996	
2018	3458	0.862		0.860		0.997	
2019	248	0.840		0.854		0.997	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	92.4	92.4	93.0	93.0
2011	8761	94.5	94.6	95.1	95.1
2012	8645	95.3	95.3	95.9	95.9
2013	7224	97.1	97.1	97.7	97.6
2014	7362	97.3	97.2	98.0	97.7
2015	6950	98.6	98.4	99.3	98.9
2016	6137	98.7	99.4	99.3	100.1
2017	5142	103.9	104.1	104.5	104.4
2018	3458	103.2	103.8	103.9	104.3
2019	248	105.7	106.9	106.4	107.3

Mælkeafgiftsfonden



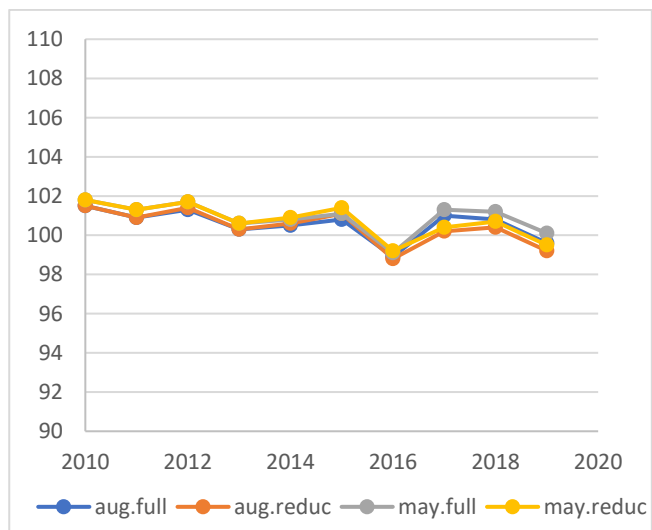
bv21

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.996		0.996		0.999	
2011	8761	0.994		0.995		0.999	
2012	8645	0.992		0.993		0.999	
2013	7224	0.989		0.990		0.999	
2014	7362	0.986		0.987		0.999	
2015	6950	0.934		0.936		0.998	
2016	6137	0.825		0.821		0.997	
2017	5142	0.770		0.765		0.997	
2018	3458	0.784		0.777		0.997	
2019	248	0.828		0.821		0.996	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	101.5	101.5	101.8	101.8
2011	8761	100.9	100.9	101.3	101.3
2012	8645	101.3	101.4	101.7	101.7
2013	7224	100.3	100.3	100.6	100.6
2014	7362	100.5	100.6	100.8	100.9
2015	6950	100.8	101.1	101.1	101.4
2016	6137	98.9	98.8	99.1	99.2
2017	5142	101.0	100.2	101.3	100.4
2018	3458	100.8	100.4	101.2	100.7
2019	248	99.6	99.2	100.1	99.5



bv22

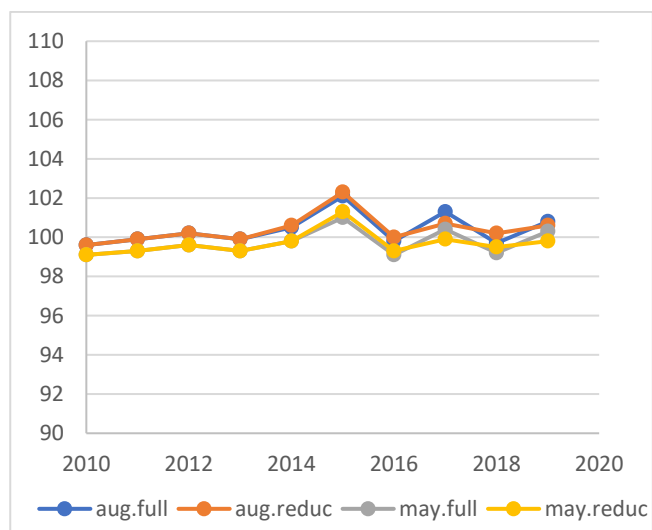
Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.995		0.996		0.972	
2011	8745	0.992		0.993		0.974	
2012	8519	0.990		0.991		0.973	
2013	7158	0.987		0.988		0.973	
2014	7278	0.984		0.984		0.973	
2015	6789	0.953		0.936		0.972	
2016	6136	0.889		0.818		0.973	
2017	5142	0.838		0.764		0.973	
2018	3458	0.818		0.748		0.973	
2019	248	0.798		0.752		0.969	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	99.6	99.6	99.1	99.1
2011	8745	99.9	99.9	99.3	99.3
2012	8519	100.2	100.2	99.6	99.6
2013	7158	99.9	99.9	99.3	99.3
2014	7278	100.5	100.6	99.8	99.8
2015	6789	102.1	102.3	101.0	101.3
2016	6136	99.8	100.0	99.1	99.3
2017	5142	101.3	100.7	100.4	99.9
2018	3458	99.7	100.2	99.2	99.5
2019	248	100.8	100.6	100.3	99.8

Mælkeafgiftsfonden



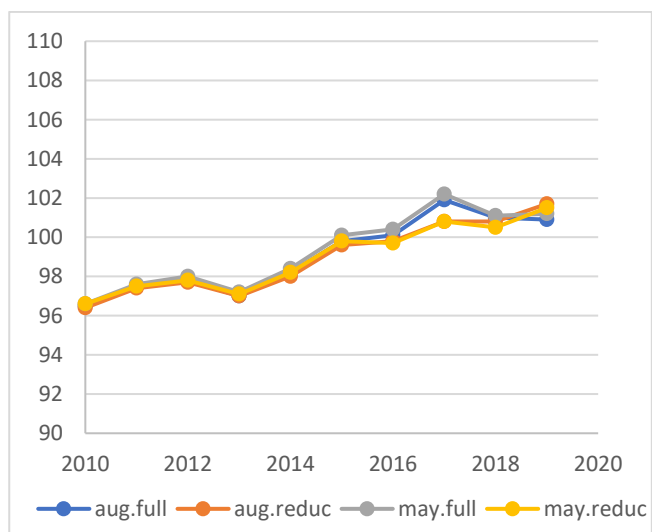
bv23

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8516	0.993		0.995		0.999	
2011	8761	0.990		0.993		0.999	
2012	8645	0.988		0.991		0.999	
2013	7224	0.985		0.988		0.998	
2014	7362	0.981		0.985		0.998	
2015	6950	0.945		0.950		0.997	
2016	6137	0.848		0.844		0.997	
2017	5142	0.833		0.820		0.995	
2018	3458	0.827		0.830		0.996	
2019	248	0.824		0.811		0.993	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8516	96.5	96.4	96.6	96.6
2011	8761	97.5	97.4	97.6	97.5
2012	8645	97.8	97.7	98.0	97.8
2013	7224	97.0	97.0	97.2	97.1
2014	7362	98.2	98.0	98.4	98.2
2015	6950	99.8	99.6	100.1	99.8
2016	6137	100.1	99.8	100.4	99.7
2017	5142	101.9	100.8	102.2	100.8
2018	3458	101.0	100.8	101.1	100.5
2019	248	100.9	101.7	101.2	101.5



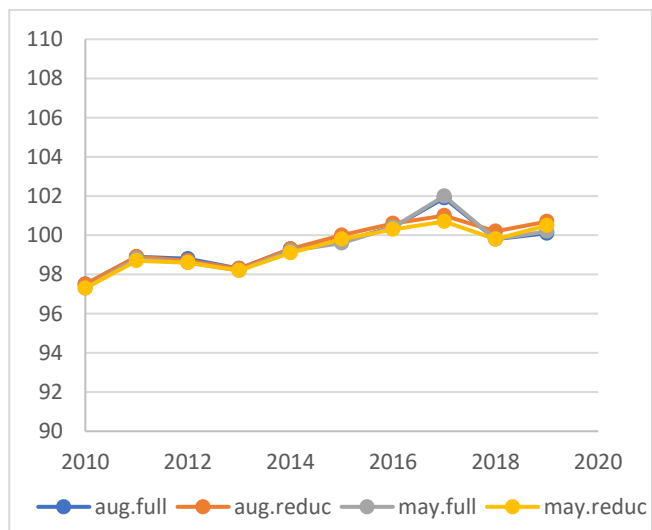
bv24

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.993		0.995		0.999	
2011	8745	0.990		0.993		0.999	
2012	8519	0.988		0.991		0.999	
2013	7158	0.985		0.988		0.999	
2014	7278	0.983		0.987		0.998	
2015	6789	0.940		0.946		0.997	
2016	6136	0.864		0.868		0.997	
2017	5142	0.820		0.818		0.995	
2018	3458	0.811		0.815		0.997	
2019	248	0.804		0.805		0.993	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	97.5	97.5	97.3	97.3
2011	8745	98.9	98.9	98.8	98.7
2012	8519	98.8	98.7	98.6	98.6
2013	7158	98.3	98.3	98.2	98.2
2014	7278	99.3	99.3	99.2	99.1
2015	6789	99.7	100.0	99.6	99.8
2016	6136	100.4	100.6	100.4	100.3
2017	5142	101.9	101.0	102.0	100.7
2018	3458	99.8	100.2	99.8	99.8
2019	248	100.1	100.7	100.2	100.5



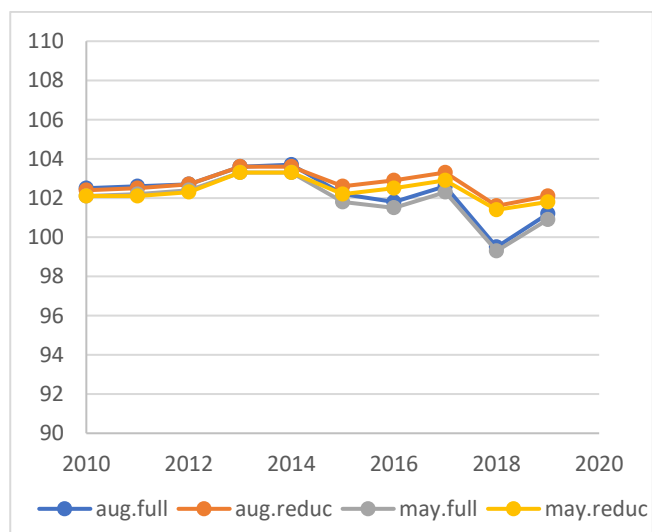
bv25

Correlations

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	8474	0.991		0.992		0.999	
2011	8745	0.989		0.990		0.999	
2012	8519	0.989		0.990		0.999	
2013	7158	0.987		0.989		0.999	
2014	7278	0.983		0.985		0.998	
2015	6789	0.949		0.951		0.997	
2016	6136	0.812		0.814		0.995	
2017	5142	0.845		0.848		0.996	
2018	3458	0.790		0.794		0.995	
2019	248	0.787		0.794		0.991	

Mean GEBV

Birth year	Number of cows	aug.full	aug.reduc	may.full	may.reduc
2010	8474	102.5	102.4	102.1	102.1
2011	8745	102.6	102.5	102.2	102.1
2012	8519	102.7	102.7	102.4	102.3
2013	7158	103.6	103.6	103.3	103.3
2014	7278	103.7	103.6	103.3	103.3
2015	6789	102.2	102.6	101.8	102.2
2016	6136	101.8	102.9	101.5	102.5
2017	5142	102.6	103.3	102.3	102.9
2018	3458	99.5	101.6	99.3	101.4
2019	248	101.2	102.1	100.9	101.8



Bulls

bv1

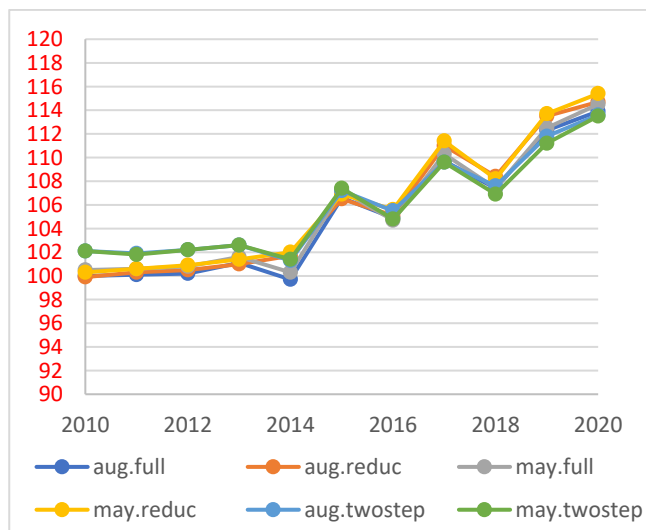
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.994	0.995	1.000			
2011	75	0.993	0.993	0.999			
2012	58	0.995	0.996	1.000			
2013	67	0.917	0.919	0.999			
2014	64	0.928	0.924	0.999			
2015	52	0.893	0.886	0.999			
2016	32	0.827	0.823	0.982			
2017	38	0.940	0.925	0.969			
2018	24	0.944	0.949	0.995			
2019	51	0.935	0.941	0.974			
2020	14	0.949	0.961	0.997			

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.0	99.9	100.5	100.3	102.1	102.1
2011	75	100.1	100.3	100.6	100.6	101.9	101.8
2012	58	100.2	100.5	100.8	100.9	102.2	102.2
2013	67	101.1	101.0	101.6	101.4	102.6	102.6
2014	64	99.7	101.7	100.3	102.0	101.3	101.4
2015	52	106.6	106.5	107.2	106.9	107.2	107.4
2016	32	104.9	105.1	104.7	105.6	105.5	104.8
2017	38	109.7	111.0	110.3	111.4	109.6	109.6
2018	24	107.4	108.4	107.4	108.2	107.6	106.9
2019	51	112.3	113.5	112.5	113.7	111.8	111.2
2020	14	113.9	114.7	114.5	115.4	113.6	113.5

Mælkeafgiftsfonden



bv2

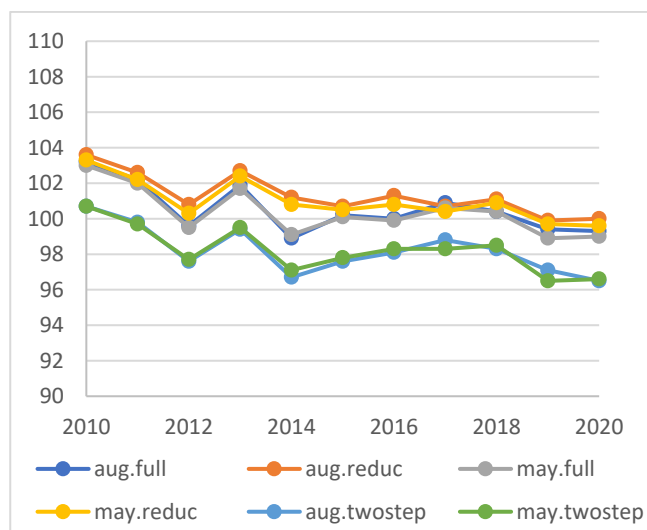
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.991		0.993		0.999	
2011	75	0.985		0.987		0.999	
2012	58	0.988		0.989		0.999	
2013	67	0.878		0.883		0.999	
2014	64	0.913		0.912		0.998	
2015	52	0.874		0.863		0.997	
2016	32	0.799		0.771		0.984	
2017	38	0.856		0.896		0.948	
2018	24	0.952		0.947		0.989	
2019	51	0.795		0.886		0.952	
2020	14	0.935		0.938		0.990	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	103.2	103.6	103.0	103.3	100.7	100.7
2011	75	102.2	102.6	102.0	102.2	99.8	99.7
2012	58	99.6	100.8	99.5	100.3	97.6	97.7
2013	67	101.9	102.7	101.7	102.4	99.4	99.5
2014	64	98.9	101.2	99.1	100.8	96.7	97.1
2015	52	100.2	100.7	100.1	100.5	97.6	97.8
2016	32	100.0	101.3	99.9	100.8	98.1	98.3
2017	38	100.9	100.7	100.6	100.4	98.8	98.3
2018	24	100.4	101.1	100.4	100.9	98.3	98.5
2019	51	99.4	99.9	98.9	99.7	97.1	96.5
2020	14	99.3	100.0	99.0	99.6	96.5	96.6

Mælkeafgiftsfonden



bv3

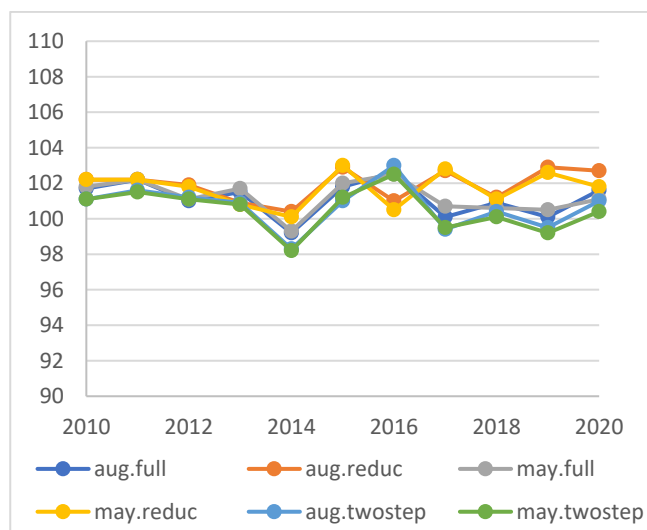
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.991		0.993		0.999	
2011	75	0.982		0.986		0.999	
2012	58	0.988		0.991		0.999	
2013	67	0.842		0.843		0.998	
2014	64	0.874		0.892		0.998	
2015	52	0.810		0.772		0.998	
2016	32	0.803		0.842		0.991	
2017	38	0.871		0.854		0.956	
2018	24	0.859		0.873		0.993	
2019	51	0.901		0.892		0.974	
2020	14	0.887		0.815		0.992	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	101.7	102.2	101.8	102.2	101.1	101.1
2011	75	102.2	102.2	102.2	102.2	101.6	101.5
2012	58	101.0	101.9	101.1	101.8	101.2	101.1
2013	67	101.5	100.9	101.7	100.8	100.9	100.8
2014	64	99.2	100.4	99.3	100.1	98.3	98.2
2015	52	101.8	102.9	102.0	103.0	101.0	101.2
2016	32	102.6	101.0	102.5	100.5	103.0	102.5
2017	38	100.1	102.7	100.7	102.8	99.4	99.5
2018	24	100.9	101.2	100.6	101.1	100.4	100.1
2019	51	100.1	102.9	100.5	102.6	99.5	99.2
2020	14	101.6	102.7	101.1	101.8	101.0	100.4

Mælkeafgiftsfonden



bv4

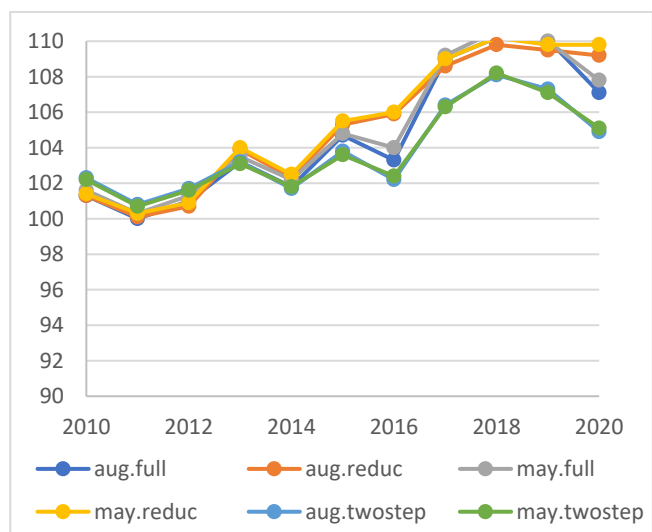
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.981		0.985		0.998	
2011	75	0.983		0.986		0.998	
2012	58	0.989		0.990		0.999	
2013	67	0.746		0.752		0.996	
2014	64	0.887		0.881		0.998	
2015	52	0.845		0.837		0.998	
2016	32	0.869		0.854		0.982	
2017	38	0.936		0.932		0.936	
2018	24	0.869		0.891		0.976	
2019	51	0.894		0.884		0.963	
2020	14	0.935		0.939		0.996	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	101.3	101.3	101.6	101.4	102.3	102.2
2011	75	100.0	100.1	100.3	100.3	100.8	100.7
2012	58	101.0	100.7	101.3	100.9	101.7	101.6
2013	67	103.2	103.9	103.5	104.0	103.2	103.1
2014	64	101.8	102.3	102.2	102.5	101.7	101.8
2015	52	104.7	105.3	104.8	105.5	103.8	103.6
2016	32	103.3	105.9	104.0	106.0	102.2	102.4
2017	38	109.0	108.6	109.2	109.0	106.4	106.3
2018	24	110.2	109.8	110.6	110.2	108.1	108.2
2019	51	110.1	109.5	110.0	109.8	107.3	107.1
2020	14	107.1	109.2	107.8	109.8	104.9	105.1

Mælkeafgiftsfonden



bv5

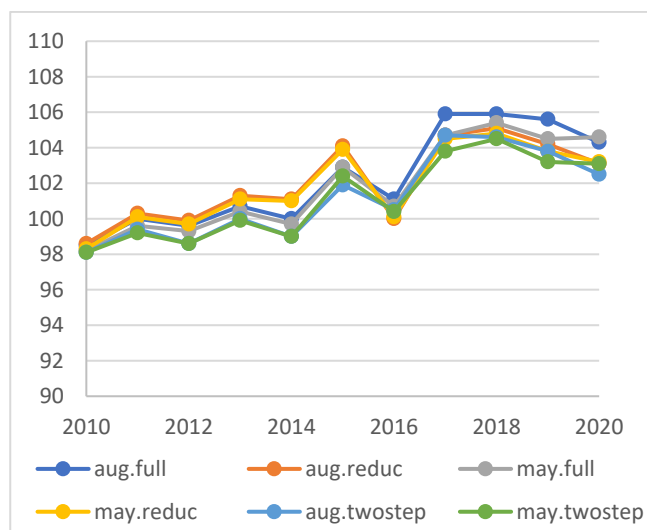
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.988		0.990		0.999	
2011	75	0.984		0.986		0.998	
2012	58	0.990		0.991		0.998	
2013	67	0.905		0.908		0.999	
2014	64	0.896		0.898		0.998	
2015	52	0.911		0.908		0.998	
2016	32	0.846		0.821		0.985	
2017	38	0.847		0.896		0.948	
2018	24	0.878		0.877		0.986	
2019	51	0.875		0.914		0.967	
2020	14	0.904		0.901		0.991	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	98.5	98.6	98.2	98.3	98.1	98.1
2011	75	100.0	100.3	99.6	100.1	99.4	99.2
2012	58	99.6	99.9	99.3	99.7	98.6	98.6
2013	67	100.7	101.3	100.4	101.1	100.0	99.9
2014	64	100.0	101.1	99.7	101.0	99.0	99.0
2015	52	102.9	104.1	102.9	103.9	101.9	102.4
2016	32	101.1	100.0	100.7	100.1	100.5	100.4
2017	38	105.9	104.7	104.7	104.5	104.7	103.8
2018	24	105.9	105.1	105.4	104.8	104.6	104.5
2019	51	105.6	104.2	104.5	103.8	103.8	103.2
2020	14	104.3	103.1	104.6	103.2	102.5	103.1

Mælkeafgiftsfonden



bv6

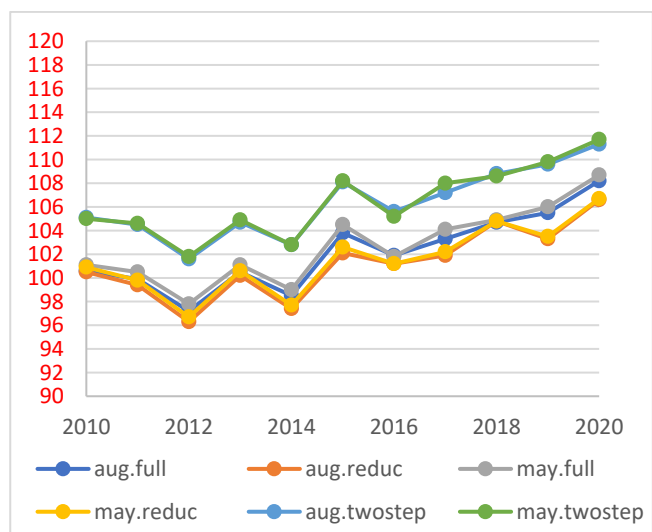
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.992		0.992		0.999	
2011	75	0.991		0.992		0.999	
2012	58	0.994		0.995		0.999	
2013	67	0.907		0.908		0.999	
2014	64	0.929		0.924		0.998	
2015	52	0.932		0.932		0.999	
2016	32	0.865		0.870		0.984	
2017	38	0.918		0.944		0.978	
2018	24	0.949		0.954		0.996	
2019	51	0.916		0.954		0.983	
2020	14	0.942		0.963		0.997	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.6	100.5	101.1	100.9	105.1	105.0
2011	75	99.9	99.4	100.5	99.8	104.5	104.6
2012	58	97.2	96.3	97.8	96.7	101.6	101.8
2013	67	100.5	100.2	101.1	100.6	104.7	104.9
2014	64	98.5	97.4	99.0	97.7	102.8	102.8
2015	52	103.8	102.1	104.5	102.6	108.1	108.2
2016	32	101.9	101.2	101.8	101.2	105.6	105.2
2017	38	103.3	101.9	104.1	102.2	107.2	108.0
2018	24	104.7	104.8	104.9	104.8	108.8	108.6
2019	51	105.5	103.3	106.0	103.5	109.6	109.8
2020	14	108.2	106.6	108.7	106.7	111.3	111.7

Mælkeafgiftsfonden



bv7

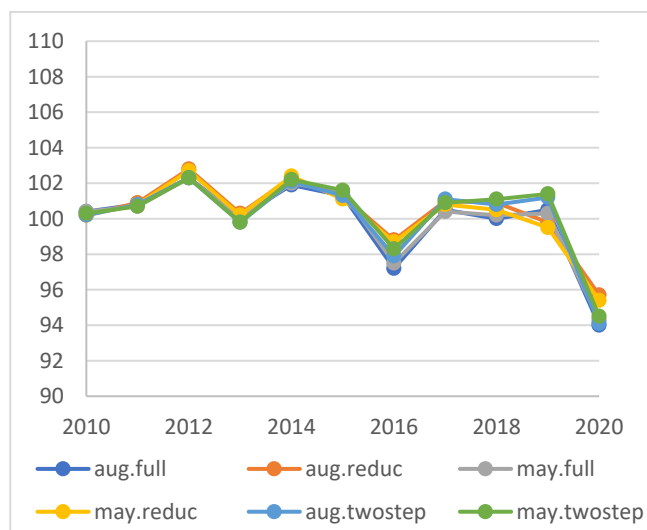
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.991		0.993		0.999	
2011	75	0.989		0.991		0.999	
2012	58	0.994		0.995		0.999	
2013	67	0.881		0.885		0.999	
2014	64	0.896		0.889		0.997	
2015	52	0.960		0.957		0.999	
2016	32	0.823		0.819		0.972	
2017	38	0.875		0.914		0.957	
2018	24	0.961		0.966		0.995	
2019	51	0.920		0.942		0.982	
2020	14	0.954		0.932		0.998	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.4	100.2	100.4	100.2	100.2	100.3
2011	75	100.8	100.9	100.7	100.8	100.8	100.7
2012	58	102.3	102.8	102.3	102.7	102.3	102.3
2013	67	100.1	100.3	100.0	100.2	99.8	99.8
2014	64	101.9	102.3	102.0	102.4	102.1	102.2
2015	52	101.3	101.3	101.5	101.1	101.3	101.6
2016	32	97.2	98.8	97.5	98.7	97.9	98.3
2017	38	100.5	101.0	100.4	100.8	101.1	100.9
2018	24	100.0	100.9	100.2	100.5	100.8	101.1
2019	51	100.5	99.8	100.3	99.5	101.2	101.4
2020	14	94.0	95.7	94.3	95.4	94.1	94.5

Mælkeafgiftsfonden



bv9

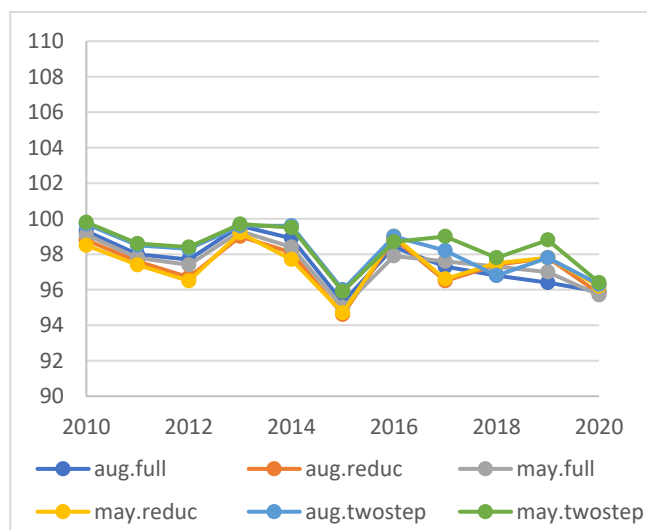
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.988		0.989		0.998	
2011	75	0.979		0.982		0.998	
2012	58	0.967		0.973		0.998	
2013	67	0.829		0.829		0.998	
2014	64	0.867		0.858		0.998	
2015	52	0.686		0.709		0.998	
2016	32	0.735		0.840		0.958	
2017	38	0.772		0.798		0.951	
2018	24	0.866		0.916		0.986	
2019	51	0.844		0.854		0.973	
2020	14	0.961		0.966		0.994	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	99.3	98.8	99.1	98.5	99.7	99.8
2011	75	98.0	97.6	97.8	97.4	98.5	98.6
2012	58	97.7	96.7	97.4	96.5	98.3	98.4
2013	67	99.6	99.0	99.3	99.2	99.6	99.7
2014	64	98.9	98.1	98.4	97.7	99.6	99.5
2015	52	95.3	94.6	95.0	94.7	96.0	95.9
2016	32	98.4	98.9	97.9	99.0	99.0	98.7
2017	38	97.3	96.5	97.6	96.6	98.2	99.0
2018	24	96.8	97.4	97.3	97.5	96.8	97.8
2019	51	96.4	97.8	97.0	97.8	97.8	98.8
2020	14	95.9	95.8	95.7	96.2	96.3	96.4

Mælkeafgiftsfonden



bv10

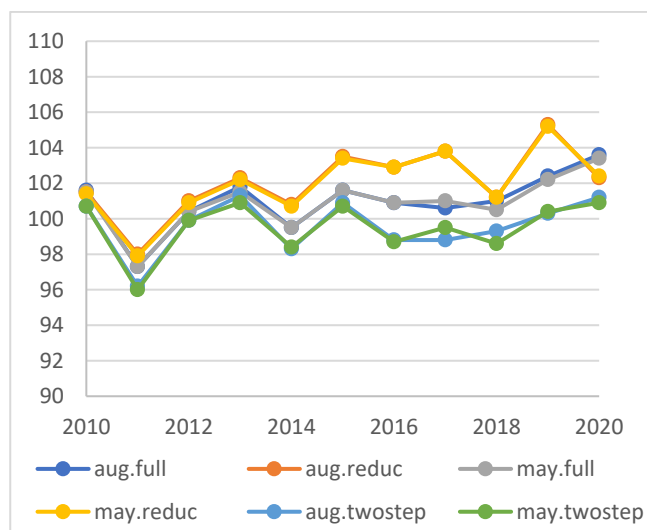
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.982		0.983		0.999	
2011	75	0.984		0.986		0.998	
2012	58	0.982		0.986		0.998	
2013	67	0.856		0.856		0.998	
2014	64	0.883		0.885		0.996	
2015	52	0.808		0.820		0.996	
2016	32	0.770		0.803		0.989	
2017	38	0.900		0.878		0.951	
2018	24	0.842		0.870		0.993	
2019	51	0.918		0.924		0.980	
2020	14	0.942		0.954		0.997	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	101.6	101.5	101.5	101.4	100.7	100.7
2011	75	97.3	98.0	97.3	97.9	96.2	96.0
2012	58	100.4	101.0	100.4	100.9	99.9	99.9
2013	67	101.8	102.3	101.5	102.2	101.3	100.9
2014	64	99.5	100.8	99.5	100.7	98.3	98.4
2015	52	101.6	103.5	101.6	103.4	100.9	100.7
2016	32	100.9	102.9	100.9	102.9	98.8	98.7
2017	38	100.6	103.8	101.0	103.8	98.8	99.5
2018	24	101.0	101.2	100.5	101.2	99.3	98.6
2019	51	102.4	105.3	102.2	105.2	100.3	100.4
2020	14	103.6	102.3	103.4	102.4	101.2	100.9

Mælkeafgiftsfonden



bv11

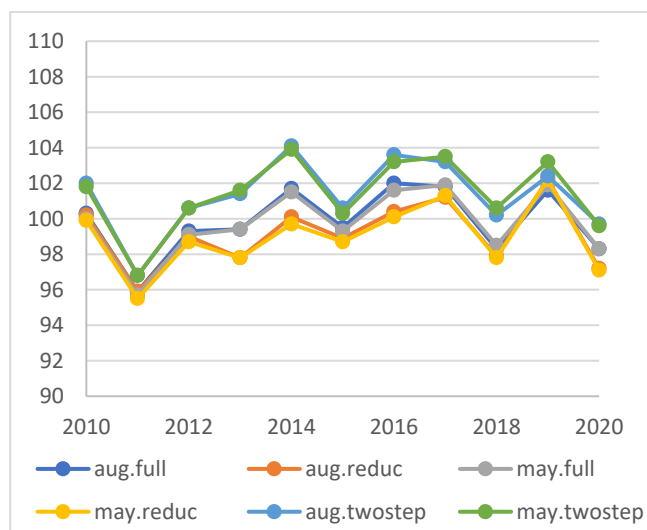
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.983		0.985		0.999	
2011	75	0.982		0.985		0.998	
2012	58	0.985		0.984		0.998	
2013	67	0.876		0.880		0.999	
2014	64	0.940		0.931		0.999	
2015	52	0.809		0.799		0.997	
2016	32	0.867		0.855		0.994	
2017	38	0.856		0.906		0.965	
2018	24	0.885		0.864		0.990	
2019	51	0.884		0.927		0.969	
2020	14	0.934		0.939		0.995	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.3	100.2	100.0	99.9	102.0	101.8
2011	75	95.9	95.9	95.7	95.5	96.8	96.8
2012	58	99.3	99.0	99.1	98.7	100.6	100.6
2013	67	99.4	97.8	99.4	97.8	101.4	101.6
2014	64	101.7	100.1	101.5	99.7	104.1	103.9
2015	52	99.5	98.9	99.3	98.7	100.6	100.3
2016	32	102.0	100.4	101.6	100.1	103.6	103.2
2017	38	101.8	101.2	101.9	101.3	103.2	103.5
2018	24	98.3	97.9	98.5	97.8	100.2	100.6
2019	51	101.6	102.2	101.9	102.2	102.4	103.2
2020	14	98.3	97.2	98.3	97.1	99.7	99.6

Mælkeafgiftsfonden



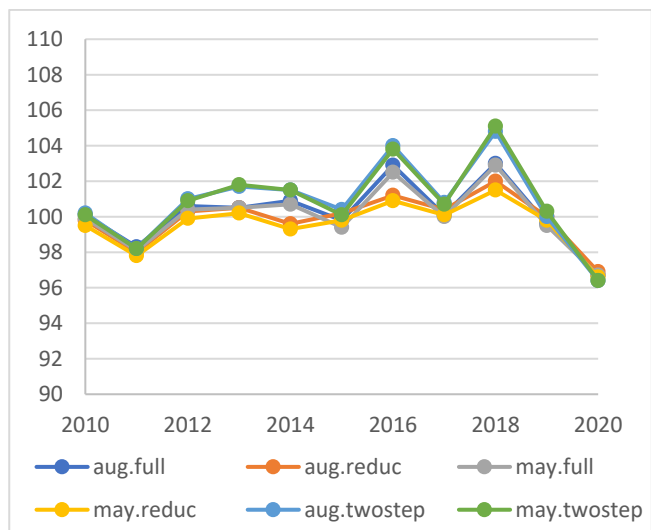
bv12

Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.988		0.990		0.999	
2011	75	0.987		0.989		0.999	
2012	58	0.985		0.987		0.999	
2013	67	0.851		0.870		0.998	
2014	64	0.945		0.941		0.999	
2015	52	0.863		0.867		0.998	
2016	32	0.820		0.838		0.989	
2017	38	0.861		0.899		0.960	
2018	24	0.902		0.913		0.995	
2019	51	0.824		0.893		0.958	
2020	14	0.922		0.936		0.996	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.1	99.8	99.9	99.5	100.2	100.1
2011	75	98.3	98.0	98.1	97.8	98.2	98.2
2012	58	100.6	100.3	100.4	99.9	101.0	100.9
2013	67	100.5	100.5	100.5	100.2	101.7	101.8
2014	64	100.9	99.6	100.7	99.3	101.5	101.5
2015	52	99.8	100.2	99.4	99.8	100.4	100.1
2016	32	102.9	101.2	102.5	100.9	104.0	103.8
2017	38	100.1	100.4	100.0	100.1	100.8	100.7
2018	24	103.0	102.0	102.9	101.5	104.8	105.1
2019	51	99.6	100.0	99.5	99.8	100.0	100.3
2020	14	96.7	96.9	96.7	96.6	96.4	96.4



bv13

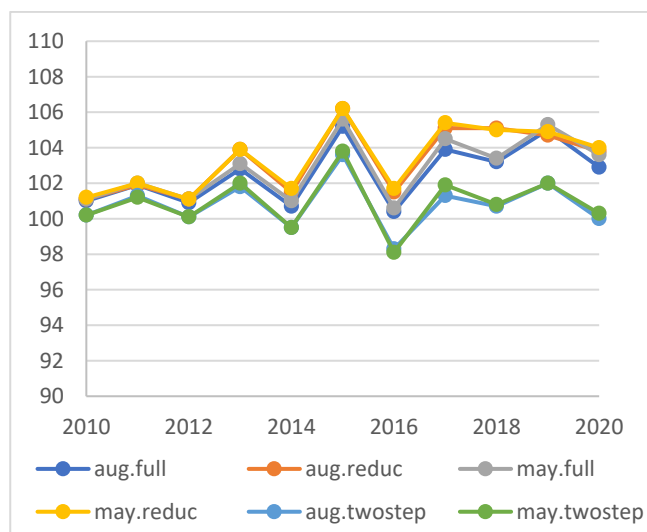
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.985		0.985		0.998	
2011	75	0.968		0.974		0.997	
2012	58	0.980		0.978		0.999	
2013	67	0.819		0.817		0.998	
2014	64	0.879		0.883		0.998	
2015	52	0.818		0.831		0.997	
2016	32	0.805		0.826		0.979	
2017	38	0.843		0.873		0.958	
2018	24	0.864		0.872		0.987	
2019	51	0.822		0.870		0.948	
2020	14	0.897		0.912		0.996	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	101.0	101.1	101.1	101.2	100.2	100.2
2011	75	101.9	101.9	102.0	102.0	101.3	101.2
2012	58	100.9	101.1	101.1	101.1	100.1	100.1
2013	67	102.8	103.9	103.1	103.9	101.8	102.0
2014	64	100.7	101.5	101.0	101.7	99.5	99.5
2015	52	105.2	106.2	105.6	106.2	103.6	103.8
2016	32	100.4	101.5	100.6	101.7	98.3	98.1
2017	38	103.9	105.1	104.5	105.4	101.3	101.9
2018	24	103.2	105.1	103.4	105.0	100.7	100.8
2019	51	105.0	104.7	105.3	104.9	102.0	102.0
2020	14	102.9	103.8	103.6	104.0	100.0	100.3

Mælkeafgiftsfonden



bv16

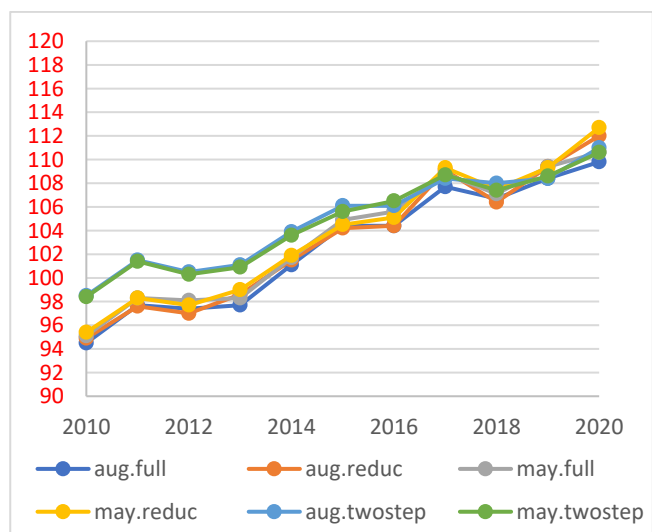
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.990		0.991		0.999	
2011	75	0.983		0.986		0.998	
2012	58	0.992		0.993		0.999	
2013	67	0.862		0.861		0.998	
2014	64	0.899		0.905		0.997	
2015	52	0.876		0.885		0.997	
2016	32	0.646		0.718		0.966	
2017	38	0.902		0.924		0.972	
2018	24	0.785		0.851		0.992	
2019	51	0.945		0.943		0.986	
2020	14	0.915		0.931		0.992	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	94.5	94.9	95.1	95.4	98.5	98.4
2011	75	97.7	97.6	98.3	98.3	101.5	101.4
2012	58	97.4	97.0	98.1	97.7	100.5	100.3
2013	67	97.7	98.6	98.3	99.0	101.1	100.9
2014	64	101.1	101.5	101.7	101.9	103.9	103.6
2015	52	104.4	104.2	104.9	104.5	106.1	105.6
2016	32	104.4	104.4	105.6	105.1	106.1	106.5
2017	38	107.7	109.1	108.8	109.3	108.4	108.7
2018	24	106.7	106.4	107.1	107.5	108.0	107.4
2019	51	108.4	109.4	109.4	109.3	108.4	108.6
2020	14	109.8	112.0	110.6	112.7	111.0	110.6

Mælkeafgiftsfonden



bv17

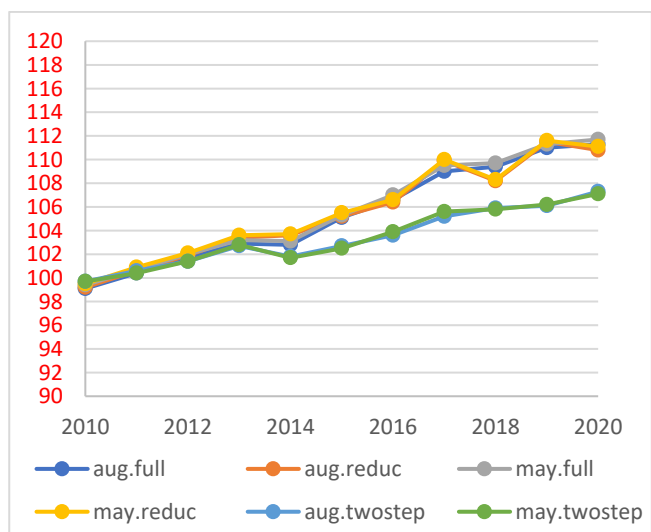
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.987		0.989		0.999	
2011	75	0.980		0.983		0.998	
2012	58	0.988		0.989		0.999	
2013	67	0.875		0.872		0.998	
2014	64	0.853		0.842		0.996	
2015	52	0.796		0.778		0.997	
2016	32	0.716		0.707		0.981	
2017	38	0.796		0.842		0.959	
2018	24	0.868		0.868		0.992	
2019	51	0.835		0.853		0.981	
2020	14	0.848		0.901		0.985	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	99.1	99.2	99.4	99.5	99.7	99.7
2011	75	100.4	100.6	100.7	100.9	100.6	100.4
2012	58	101.7	101.9	102.0	102.1	101.4	101.4
2013	67	102.9	103.4	103.2	103.6	102.7	102.8
2014	64	102.8	103.6	103.1	103.7	101.8	101.7
2015	52	105.1	105.2	105.3	105.5	102.7	102.5
2016	32	106.6	106.4	107.0	106.6	103.6	103.9
2017	38	109.0	109.9	109.5	110.0	105.2	105.6
2018	24	109.4	108.2	109.7	108.3	105.9	105.8
2019	51	111.0	111.5	111.3	111.6	106.1	106.2
2020	14	111.3	110.8	111.7	111.1	107.3	107.1

Mælkeafgiftsfonden



bv18

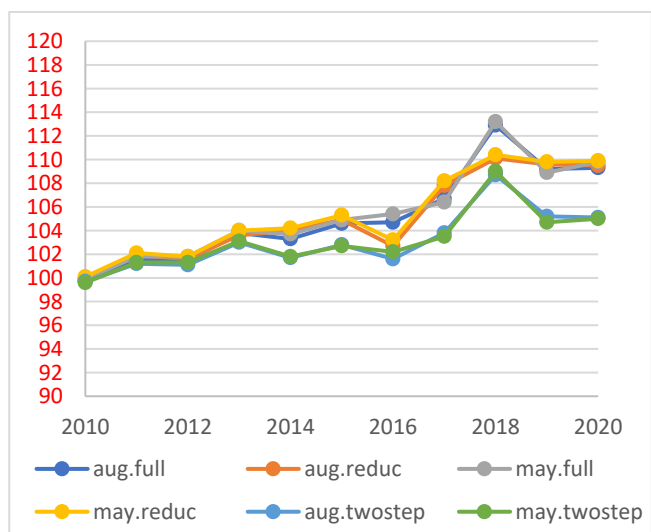
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.987		0.988		0.999	
2011	75	0.982		0.984		0.998	
2012	58	0.989		0.990		0.999	
2013	67	0.868		0.877		0.998	
2014	64	0.859		0.861		0.998	
2015	52	0.904		0.896		0.998	
2016	32	0.858		0.874		0.990	
2017	38	0.837		0.916		0.935	
2018	24	0.884		0.885		0.993	
2019	51	0.883		0.931		0.969	
2020	14	0.807		0.807		0.998	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	99.7	99.9	99.9	100.1	99.7	99.6
2011	75	101.6	101.9	101.8	102.1	101.2	101.3
2012	58	101.5	101.6	101.8	101.8	101.1	101.3
2013	67	103.8	103.6	104.0	104.0	103.0	103.1
2014	64	103.3	104.0	103.7	104.2	101.7	101.8
2015	52	104.6	104.9	104.9	105.3	102.8	102.7
2016	32	104.7	102.7	105.4	103.2	101.6	102.2
2017	38	106.7	107.8	106.4	108.2	103.8	103.5
2018	24	112.9	110.1	113.2	110.4	108.7	109.0
2019	51	109.2	109.6	108.9	109.8	105.2	104.7
2020	14	109.3	109.5	109.8	109.9	105.1	105.0

Mælkeafgiftsfonden



bv19

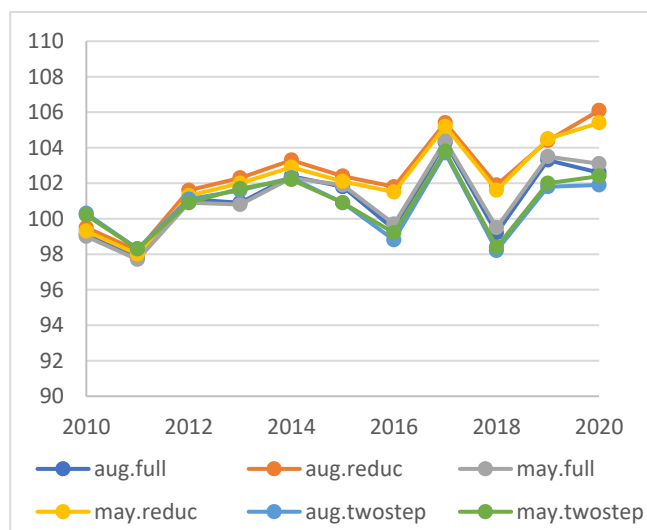
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.992		0.993		0.999	
2011	75	0.990		0.992		0.999	
2012	58	0.982		0.981		0.998	
2013	67	0.904		0.908		0.999	
2014	64	0.931		0.931		0.998	
2015	52	0.886		0.878		0.997	
2016	32	0.805		0.821		0.975	
2017	38	0.839		0.903		0.920	
2018	24	0.841		0.831		0.990	
2019	51	0.896		0.945		0.971	
2020	14	0.827		0.865		0.997	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	99.1	99.5	99.0	99.3	100.3	100.2
2011	75	97.8	98.2	97.7	98.0	98.3	98.3
2012	58	101.1	101.6	100.9	101.3	101.1	100.9
2013	67	100.9	102.3	100.8	102.0	101.6	101.7
2014	64	102.4	103.3	102.3	102.9	102.3	102.2
2015	52	101.8	102.4	101.9	102.1	100.9	100.9
2016	32	99.4	101.8	99.7	101.5	98.8	99.2
2017	38	104.3	105.4	104.4	105.2	103.7	103.8
2018	24	99.2	101.9	99.5	101.6	98.2	98.4
2019	51	103.3	104.4	103.5	104.5	101.8	102.0
2020	14	102.6	106.1	103.1	105.4	101.9	102.4

Mælkeafgiftsfonden



bv20

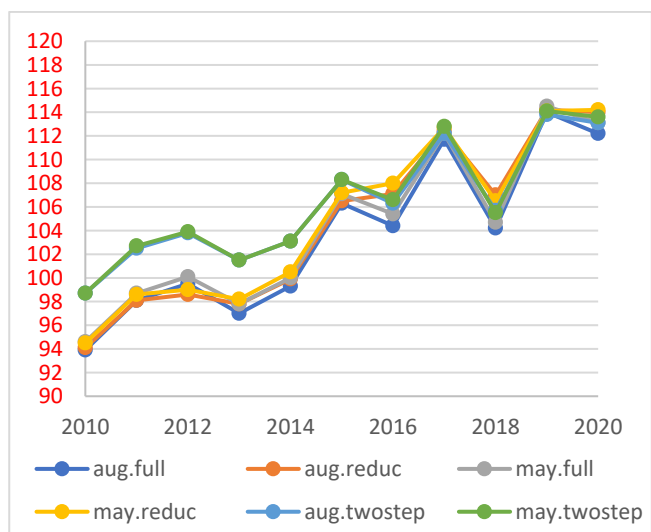
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.994		0.996		0.999	
2011	75	0.991		0.992		0.999	
2012	58	0.992		0.992		0.999	
2013	67	0.888		0.874		0.998	
2014	64	0.869		0.864		0.997	
2015	52	0.917		0.916		0.999	
2016	32	0.865		0.870		0.989	
2017	38	0.885		0.931		0.972	
2018	24	0.919		0.950		0.996	
2019	51	0.921		0.942		0.987	
2020	14	0.880		0.930		0.992	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	93.9	94.1	94.6	94.5	98.7	98.7
2011	75	98.1	98.1	98.7	98.6	102.5	102.7
2012	58	99.5	98.6	100.1	99.0	103.8	103.9
2013	67	97.0	97.8	97.8	98.2	101.5	101.5
2014	64	99.3	99.9	100.0	100.5	103.1	103.1
2015	52	106.3	106.5	107.1	107.2	108.3	108.3
2016	32	104.4	107.1	105.4	108.0	106.3	106.6
2017	38	111.7	112.4	112.2	112.7	112.2	112.8
2018	24	104.2	107.0	104.7	106.5	105.7	105.5
2019	51	114.0	114.2	114.5	114.1	113.8	114.1
2020	14	112.2	114.0	113.1	114.2	113.1	113.6

Mælkeafgiftsfonden



bv21

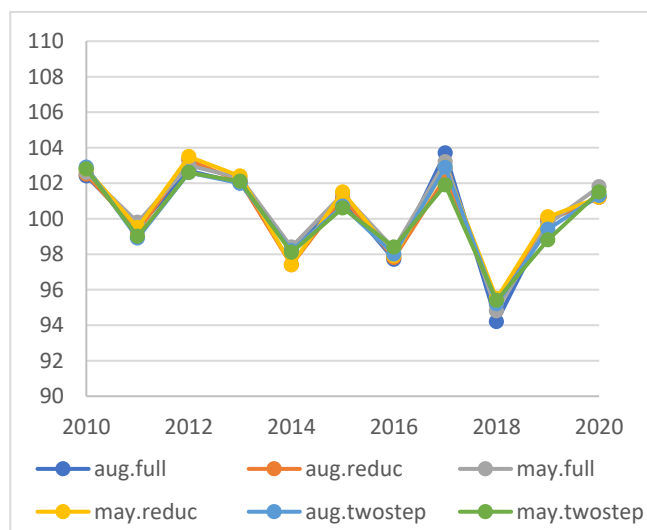
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.995		0.996		0.999	
2011	75	0.992		0.993		0.999	
2012	58	0.991		0.992		0.999	
2013	67	0.935		0.926		0.999	
2014	64	0.921		0.914		0.999	
2015	52	0.893		0.900		0.998	
2016	32	0.770		0.786		0.979	
2017	38	0.893		0.937		0.951	
2018	24	0.937		0.960		0.994	
2019	51	0.896		0.953		0.959	
2020	14	0.906		0.902		0.993	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	102.4	102.5	102.6	102.8	102.9	102.8
2011	75	99.5	99.3	99.8	99.5	98.9	99.0
2012	58	102.7	103.3	103.0	103.5	102.6	102.6
2013	67	102.0	102.1	102.3	102.4	102.0	102.1
2014	64	98.2	97.4	98.4	97.4	98.2	98.1
2015	52	101.1	101.2	101.4	101.5	100.7	100.6
2016	32	97.7	97.8	98.3	97.9	98.0	98.4
2017	38	103.7	102.3	103.2	102.9	102.9	101.9
2018	24	94.2	95.2	94.8	95.5	95.2	95.4
2019	51	99.9	99.9	99.7	100.1	99.4	98.8
2020	14	101.2	101.2	101.8	101.2	101.3	101.5

Mælkeafgiftsfonden



bv22

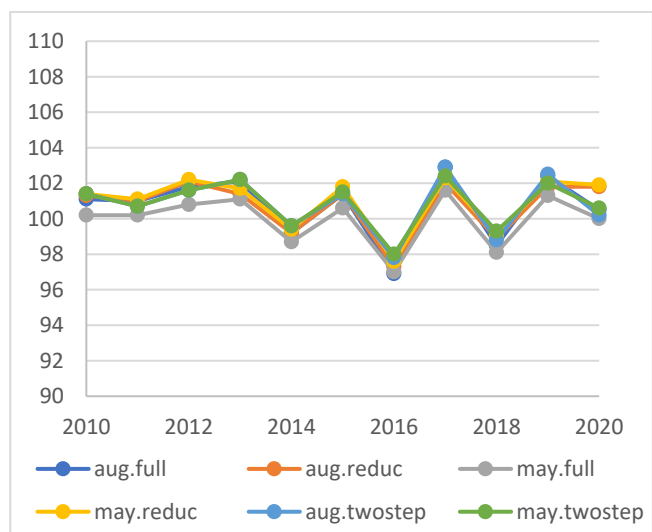
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.996		0.993		0.996	
2011	75	0.992		0.988		0.996	
2012	58	0.986		0.982		0.996	
2013	67	0.949		0.929		0.995	
2014	64	0.932		0.917		0.996	
2015	52	0.833		0.826		0.992	
2016	32	0.814		0.806		0.979	
2017	38	0.826		0.900		0.927	
2018	24	0.940		0.938		0.984	
2019	51	0.852		0.907		0.938	
2020	14	0.857		0.810		0.976	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	101.1	101.3	100.2	101.4	101.4	101.4
2011	75	101.0	101.0	100.2	101.1	100.7	100.7
2012	58	101.8	102.1	100.8	102.2	101.6	101.6
2013	67	102.1	101.4	101.1	101.7	102.2	102.2
2014	64	99.2	99.2	98.7	99.4	99.6	99.6
2015	52	101.4	101.4	100.6	101.8	101.4	101.5
2016	32	96.9	97.3	97.0	97.6	97.8	98.0
2017	38	102.9	102.0	101.6	102.3	102.9	102.4
2018	24	98.5	98.9	98.1	99.1	98.8	99.3
2019	51	102.4	101.8	101.3	102.1	102.5	102.0
2020	14	100.5	101.8	100.0	101.9	100.2	100.6

Mælkeafgiftsfonden



bv23

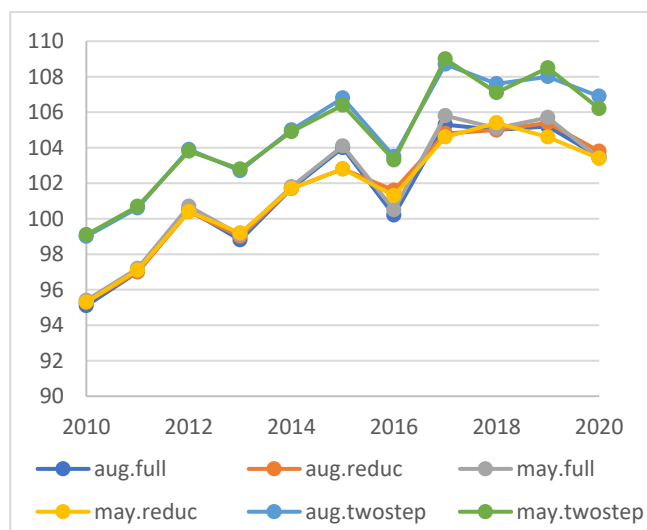
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.992		0.994		0.999	
2011	75	0.982		0.985		0.999	
2012	58	0.990		0.994		0.999	
2013	67	0.868		0.886		0.998	
2014	64	0.914		0.903		0.998	
2015	52	0.864		0.844		0.998	
2016	32	0.691		0.706		0.988	
2017	38	0.946		0.935		0.971	
2018	24	0.891		0.888		0.995	
2019	51	0.902		0.892		0.986	
2020	14	0.918		0.955		0.999	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	95.1	95.3	95.4	95.3	99.0	99.1
2011	75	97.0	97.0	97.2	97.1	100.6	100.7
2012	58	100.5	100.4	100.7	100.4	103.9	103.8
2013	67	98.8	99.0	99.1	99.2	102.7	102.8
2014	64	101.7	101.7	101.8	101.7	105.0	104.9
2015	52	104.0	102.8	104.1	102.8	106.8	106.4
2016	32	100.2	101.6	100.5	101.3	103.5	103.3
2017	38	105.3	104.8	105.8	104.6	108.7	109.0
2018	24	105.0	105.0	105.1	105.4	107.6	107.1
2019	51	105.2	105.4	105.7	104.6	108.0	108.5
2020	14	103.5	103.8	103.4	103.4	106.9	106.2

Mælkeafgiftsfonden



bv24

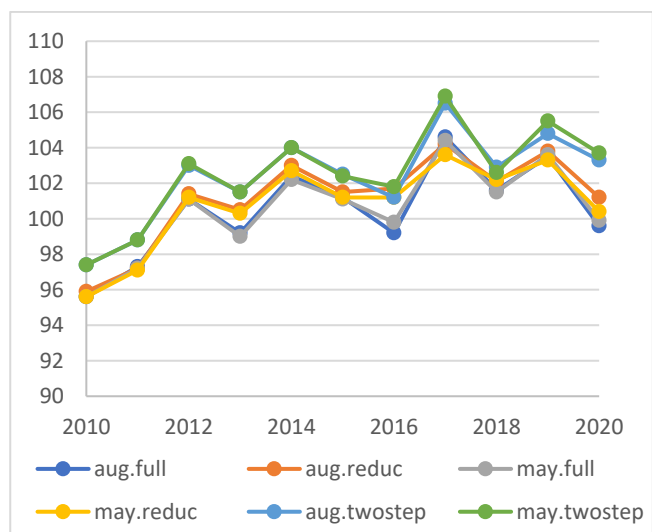
Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.987		0.992		0.999	
2011	75	0.987		0.991		0.999	
2012	58	0.993		0.995		0.999	
2013	67	0.877		0.896		0.999	
2014	64	0.906		0.909		0.998	
2015	52	0.850		0.838		0.998	
2016	32	0.755		0.773		0.983	
2017	38	0.935		0.912		0.958	
2018	24	0.877		0.872		0.994	
2019	51	0.923		0.931		0.982	
2020	14	0.936		0.945		0.998	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	95.6	95.9	95.6	95.6	97.4	97.4
2011	75	97.3	97.2	97.2	97.1	98.8	98.8
2012	58	101.1	101.4	101.1	101.2	103.0	103.1
2013	67	99.2	100.5	99.0	100.3	101.5	101.5
2014	64	102.4	103.0	102.2	102.7	104.0	104.0
2015	52	101.2	101.5	101.1	101.2	102.5	102.4
2016	32	99.2	101.7	99.8	101.2	101.2	101.8
2017	38	104.6	104.2	104.4	103.6	106.5	106.9
2018	24	101.6	102.1	101.5	102.2	102.9	102.6
2019	51	103.5	103.8	103.6	103.3	104.8	105.5
2020	14	99.6	101.2	99.9	100.4	103.3	103.7

Mælkeafgiftsfonden



bv25

Correlations

Birth year	Number of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.full	may.full
2010	73	0.985		0.985		0.999	
2011	75	0.989		0.988		0.999	
2012	58	0.992		0.993		0.999	
2013	67	0.788		0.789		0.998	
2014	64	0.919		0.919		0.998	
2015	52	0.878		0.880		0.998	
2016	32	0.606		0.569		0.984	
2017	38	0.869		0.901		0.972	
2018	24	0.861		0.829		0.991	
2019	51	0.927		0.938		0.985	
2020	14	0.935		0.965		0.996	

Mean GEBV

Birth year	No of bulls	aug.full	aug.reduc	may.full	may.reduc	aug.twostep	may.twostep
2010	73	100.9	101.0	100.6	100.7	98.2	98.2
2011	75	101.8	101.7	101.5	101.4	99.5	99.4
2012	58	104.1	104.2	103.8	103.8	101.4	101.4
2013	67	100.4	102.5	100.1	102.1	97.4	97.4
2014	64	102.6	103.0	102.3	102.6	99.6	99.7
2015	52	101.2	102.7	100.9	102.4	98.0	97.9
2016	32	101.1	102.5	101.4	102.4	98.2	98.7
2017	38	100.2	102.0	99.9	101.6	96.9	96.6
2018	24	102.1	102.6	101.9	102.4	99.6	99.6
2019	51	101.5	102.7	101.1	102.2	98.2	97.8
2020	14	97.4	100.8	97.6	100.8	94.2	94.4

Mælkeafgiftsfonden

