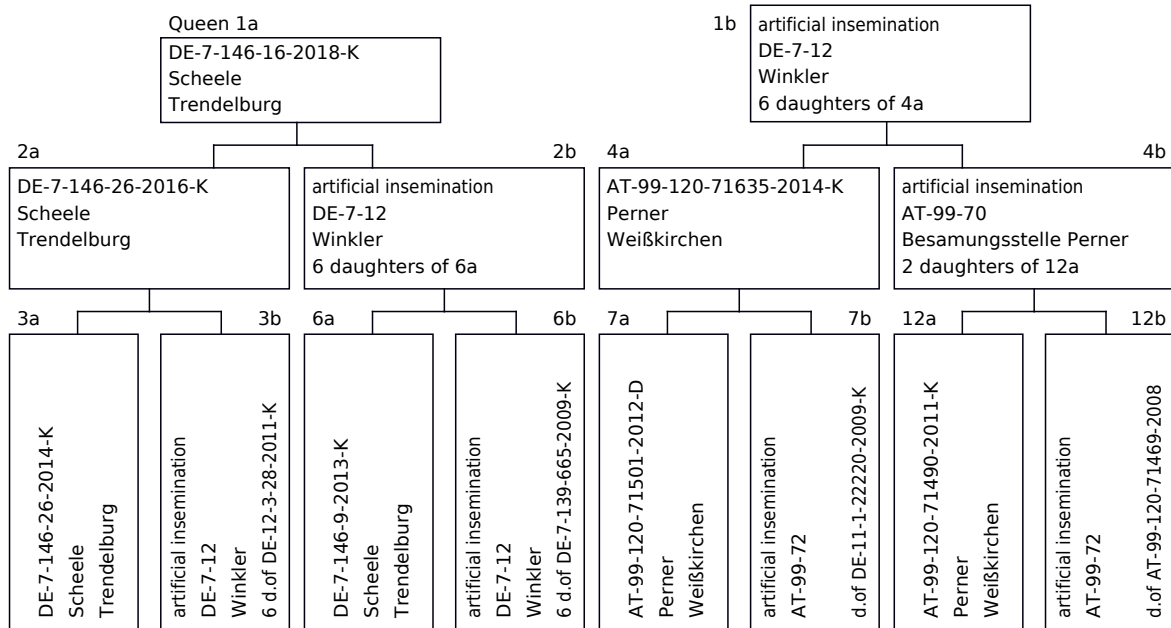


Tester of the queen: Scheele, Wolfgang, 34388 Trendelburg, DE-7-146, Apiary 1
 Breeder of the queen: Scheele, Wolfgang, 34388 Trendelburg, DE-7-146
1a Studbook number: **DE-7-146-16-2018-K**

Race line: -70 Sign: red 16 Daughters of Queen: 3.5%
 Generation: 12 Hatch date: 03.06.2018 Workers: 0.2%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 31 | | | comparable colonies at the apiary | |
|---|----------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 97.6 | 115.3 | 6 | 21 | 84.6 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 124 | | | |
| Honey yield | - | 115 | | | 0.41 |
| Defensive behavior | 3.70 | 122 | | | 0.52 |
| Steadiness on comb | 3.50 | 120 | | | 0.52 |
| Swarming drive | 4 | 119 | | | 0.41 |
| Varroa | - | 116 | | | 0.27 |
| Performance index | - | 121 | | | 0.47 |
| Robustness in winter | 4 | | 70% | 100% | 170% |
| Development in Spring | 3.50 | | | | |
| Colony strength | 4 | | | | |

¹In accordance with the resolution of the breeder convention of 9th April 2011, for the total breeding value, Varroa tolerance is weighted by 40% and honey yield, gentleness, calmness during inspection, and swarming tendency are each weighted by 15%.

C. Performance of the sisters

See page 2

D. Body features, see appendix

See attached characteristic documents:

E. Results

Class Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

Breeding selection report DE-7-146-16-2018-K

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Performance of the sisters

Amount of checked sisters: 16

| Studbook number | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive Behavior | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance index |
|--------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|-----------------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|-------------------|
| DE-7-146-2-2018 | DE-7-45 | 1 | 126 | | 113 | | | | | | | 121 | 121 |
| DE-7-146-5-2018-K | DE-7-146 | 1 | 124 | 97.7 | 114 | 3.7 | 121 | 3.3 | 118 | 4 | 119 | 117 | 120 |
| DE-7-146-6-2018-K | DE-7-146 | 1 | 121 | 77.8 | 110 | 3.7 | 120 | 3.1 | 116 | 3 | 114 | 117 | 117 |
| DE-7-146-11-2018 | DE-7-146 | 1 | 119 | 69.4 | 108 | 3.5 | 118 | 3.1 | 115 | 3 | 114 | 114 | 115 |
| DE-7-146-15-2018 | DE-7-146 | 1 | 122 | 83.1 | 111 | 3.5 | 118 | 3.1 | 115 | 4 | 119 | 118 | 118 |
| DE-7-146-16-2018-K | DE-7-146 | 1 | 124 | 97.6 | 115 | 3.7 | 122 | 3.5 | 120 | 4 | 119 | 116 | 121 |
| DE-7-146-17-2018 | DE-7-146 | 1 | 124 | 96.1 | 115 | 3.5 | 120 | 3.4 | 118 | 4 | 119 | 118 | 120 |
| DE-7-146-18-2018 | DE-7-146 | 1 | 123 | 101.9 | 116 | 3.5 | 120 | 3.4 | 118 | 4 | 119 | 115 | 120 |
| DE-7-146-20-2018 | DE-7-146 | 1 | 121 | 70.5 | 110 | 3.8 | 123 | 3.5 | 120 | 3 | 114 | 113 | 119 |
| DE-7-146-21-2018 | DE-7-146 | 1 | 119 | 70.5 | 109 | 3.3 | 117 | 3.1 | 114 | 4 | 119 | 113 | 117 |
| DE-7-146-22-2018-K | DE-7-146 | 1 | 124 | 84.1 | 112 | 4 | 125 | 3.6 | 122 | 3 | 114 | 118 | 121 |
| DE-7-146-23-2018-K | DE-7-146 | 1 | 123 | 100.9 | 115 | 3.9 | 123 | 3.3 | 118 | 4 | 119 | 115 | 121 |
| DE-7-146-28-2018 | DE-7-146 | 1 | 124 | 96.1 | 115 | 3.5 | 120 | 3.4 | 118 | 4 | 119 | 118 | 120 |
| DE-7-146-71-2018 | DE-7-146 | 1 | 123 | 93.8 | 113 | 3.4 | 118 | 3.1 | 115 | 4 | 119 | 119 | 118 |
| DE-7-146-3-2018 | DE-7-161 | 1 | 121 | | 110 | | 119 | | 116 | | 118 | 116 | 119 |
| DE-7-146-4-2018 | DE-7-161 | 1 | 119 | | 107 | | 119 | | 115 | | 118 | 112 | 118 |