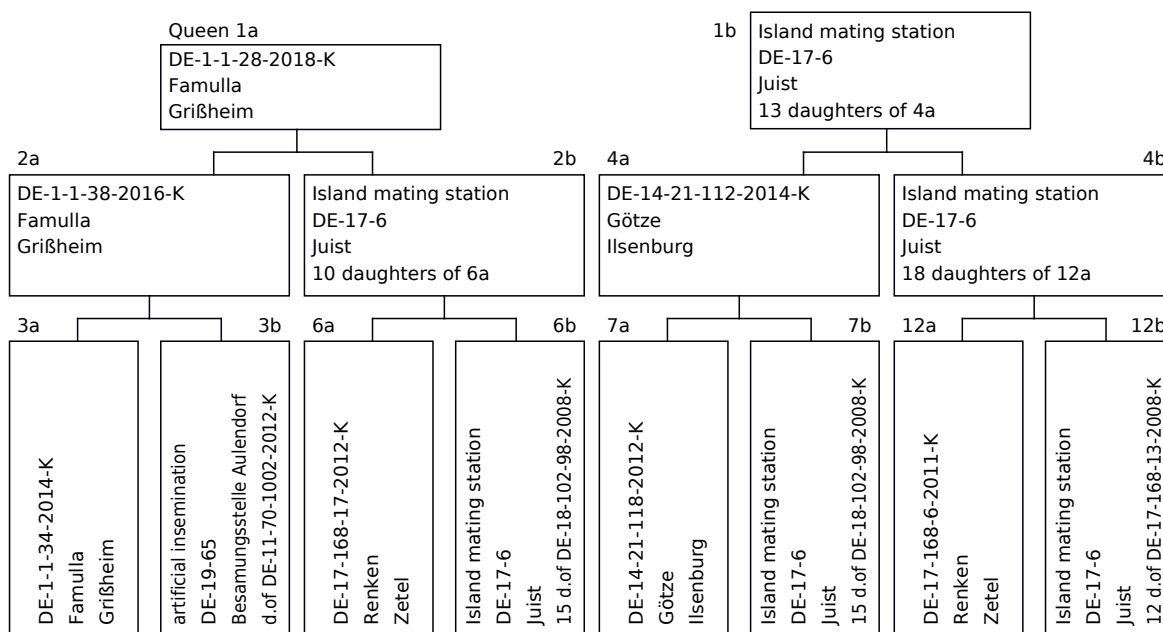




Tester of the queen: Famulla, Leo, 79395 Grißheim, DE-1-1, Apiary 1
 Breeder of the queen: Famulla, Leo, 79395 Grißheim, DE-1-1
1a Studbook number: **DE-1-1-28-2018-K**

Race line: -14 Sign: red 28 Daughters of Queen: 6.5%
 Generation: 13 Hatch date: 05.06.2018 Workers: 6.0%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 21.6 | 123.2 | 2 | 11 | 17.5 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 111 | | | |
| Honey yield | - | 119 | | | 0.43 |
| Defensive behavior | 4 | 113 | | | 0.5 |
| Steadiness on comb | 3.90 | 111 | | | 0.53 |
| Swarming drive | 4 | 109 | | | 0.44 |
| Varroa | - | 99 | | | 0.28 |
| Performance index | - | 114 | | | 0.51 |
| Robustness in winter | 4 | | 70% | 100% | 170% |
| Development in Spring | 4 | | | | |
| 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 B
 Suitable for breeding.

Breeding selection report DE-1-1-28-2018-K

Page 2

Performance of the sisters

Amount of checked sisters: 45

| Studbook number | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance index |
|-------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|-------------------|
| DE-1-1-26-2018 | DE-1-1 | 1 | 110 | 19.5 | 117 | 4 | Behavior | 4 | 110 | 4 | 109 | 98 | 115 |
| DE-1-1-27-2018 | DE-1-1 | 1 | 110 | 20.8 | 119 | 4 | 114 | 4 | 112 | 4 | 109 | 96 | 115 |
| DE-1-1-28-2018-K | DE-1-1 | 1 | 111 | 21.6 | 119 | 4 | 113 | 3.9 | 111 | 4 | 109 | 99 | 114 |
| DE-1-1-29-2018-K | DE-1-1 | 1 | 112 | 23.4 | 121 | 4 | 114 | 4 | 112 | 4 | 109 | 100 | 116 |
| DE-1-5-7-2018 | DE-1-5 | 1 | 107 | | 114 | | 110 | | 107 | | 106 | (97) | 110 |
| DE-1-5-8-2018-K | DE-1-5 | 1 | 113 | | 118 | | 121 | | 120 | | 110 | (97) | 119 |
| DE-1-1-31-2018-K | DE-1-30 | 1 | 111 | | 118 | | 116 | | 113 | | 109 | 97* | 116 |
| DE-1-1-32-2018 | DE-1-30 | 1 | 109 | | 118 | | 115 | | 112 | | 109 | 96* | 115 |
| DE-1-1-301-2018-K | DE-11-70 | 1 | 111 | | 119 | | 115 | | 112 | | 109 | 98 | 115 |
| DE-1-1-303-2018 | DE-11-70 | 1 | 111 | | 116 | | 115 | | 112 | | 109 | 98 | 115 |
| DE-1-1-305-2018 | DE-11-70 | 1 | 108 | | 114 | | 114 | | 111 | | 106 | 96 | 112 |
| DE-1-1-310-2018 | DE-11-70 | 1 | 110 | | 115 | | 113 | | 110 | | 109 | 99 | 113 |
| DE-1-1-313-2018 | DE-11-70 | 1 | 106 | | 114 | | 114 | | 111 | | 106 | 92 | 113 |
| DE-1-1-315-2018-K | DE-11-70 | 1 | 111 | | 118 | | 115 | | 112 | | 109 | 99 | 115 |
| DE-1-1-311-2018 | DE-11-70 | 3 | 108 | | 115 | | 112 | | 110 | | 109 | 96 | 113 |
| DE-1-1-4-2018-D | DE-17-139 | 1 | 104 | | (113) | | 103 | | 102 | | 106 | 96* | 106 |
| DE-1-1-33-2018 | DE-17-139 | 1 | 109 | | (118) | | 118 | | 116 | | 110 | 92* | 117 |
| DE-1-1-37-2018-D | DE-17-139 | 1 | 114 | | (118) | | 118 | | 116 | | 110 | 101* | 117 |
| DE-1-1-39-2018-D | DE-17-139 | 1 | 111 | | (118) | | 118 | | 116 | | 110 | 95* | 117 |
| DE-1-1-40-2018-D | DE-17-139 | 1 | 112 | | (118) | | 118 | | 116 | | 110 | 97* | 117 |
| DE-1-1-43-2018-D | DE-17-139 | 1 | 112 | | (118) | | 118 | | 116 | | 110 | 98* | 117 |
| DE-1-1-44-2018-D | DE-17-139 | 1 | 110 | | (118) | | 118 | | 116 | | 110 | 95* | 117 |
| DE-1-1-45-2018-D | DE-17-139 | 1 | 113 | | (118) | | 118 | | 116 | | 110 | 100* | 117 |
| DE-1-1-48-2018 | DE-17-139 | 1 | 110 | | (118) | | 118 | | 116 | | 110 | 94* | 117 |
| DE-1-1-51-2018-D | DE-17-139 | 1 | 108 | | (113) | | 112 | | 106 | | 107 | 98* | 111 |
| DE-1-1-53-2018-D | DE-17-139 | 1 | 108 | | (113) | | 112 | | 106 | | 107 | 99* | 111 |
| DE-1-1-54-2018-D | DE-17-139 | 1 | 112 | | (118) | | 118 | | 116 | | 110 | 98* | 117 |
| DE-1-1-55-2018-D | DE-17-139 | 1 | 113 | | (118) | | 118 | | 116 | | 110 | 100* | 117 |
| DE-1-1-56-2018-D | DE-17-139 | 1 | 105 | | (113) | | 103 | | 102 | | 106 | 98* | 106 |
| DE-1-1-57-2018-D | DE-17-139 | 1 | 112 | | (118) | | 118 | | 116 | | 110 | 97* | 117 |
| DE-1-1-58-2018-D | DE-17-139 | 1 | 108 | | (113) | | 112 | | 106 | | 107 | 98* | 111 |
| DE-1-1-59-2018-D | DE-17-139 | 1 | 106 | | (113) | | 103 | | 102 | | 106 | 99* | 106 |
| DE-1-1-60-2018 | DE-17-139 | 1 | 108 | | (113) | | 112 | | 106 | | 107 | 99* | 111 |
| DE-1-1-61-2018-D | DE-17-139 | 1 | 111 | | (118) | | 118 | | 116 | | 110 | 96* | 117 |
| DE-1-1-62-2018 | DE-17-139 | 1 | 106 | | (113) | | 112 | | 106 | | 107 | 95* | 111 |
| DE-1-1-13-2018 | DE-17-238 | 1 | 101 | | 111 | | 103 | | 102 | | 100 | 94 | 104 |
| DE-1-1-15-2018 | DE-17-238 | 1 | 123 | | 123 | | 130 | | 126 | | 118 | 107 | 127 |
| DE-1-1-16-2018 | DE-17-238 | 1 | 105 | | 113 | | 112 | | 107 | | 105 | 94 | 110 |
| DE-1-1-17-2018 | DE-17-238 | 1 | 117 | | 125 | | 128 | | 129 | | 118 | 94 | 128 |
| DE-1-1-18-2018 | DE-17-238 | 1 | 104 | | 111 | | 108 | | 104 | | 99 | 96 | 106 |
| DE-1-1-14-2018** | DE-17-238 | 2 | 110 | | (116) | | (114) | | (112) | | (109) | (97) | 114 |
| DE-1-1-19-2018 | DE-17-238 | 2 | 115 | | 119 | | 122 | | 120 | | 113 | 99 | 120 |
| DE-1-1-20-2018** | DE-17-238 | 2 | 110 | | (116) | | (114) | | (112) | | (109) | (97) | 114 |
| DE-1-1-21-2018 | DE-17-238 | 2 | 115 | | 120 | | 122 | | 120 | | 113 | 99 | 121 |
| DE-1-1-22-2018 | DE-17-238 | 2 | 115 | | 121 | | 122 | | 120 | | 113 | 99 | 121 |

Only one Varroa trait was recorded

Colony without performance tests