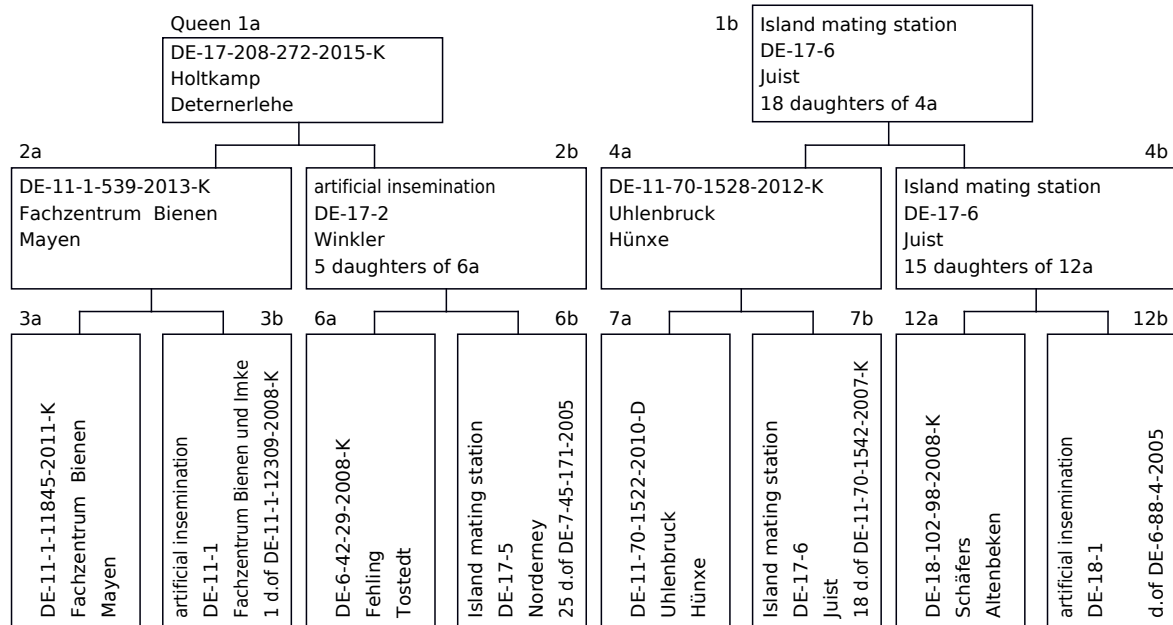


Tester of the queen: Holtkamp, Helmut, 26847 Deternerlehe, DE-17-208, Apiary 3
Breeder of the queen: Holtkamp, Helmut, 26847 Deternerlehe, DE-17-208
1a Studbook number: **DE-17-208-272-2015-K**

Race line: -80 Sign: blue 55 Daughters of Queen: 2.4%
Generation: 2 Hatch date: 25.05.2015 Workers: 0.1%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony Volk 198 | | | comparable colonies at the apiary | | |
|---|----------------------------|-----------------|---------|-----------------------------------|------------------|-------------|
| | kg | % | Ranking | number | Yield average kg | |
| | 33.6 | 183.3 | 1 | 20 | 18.3 | |
| | Assessment* | Breeding values | | | | Reliability |
| Total breeding value¹ | - | 125 | | | | |
| Honey yield | - | 121 | | | | 0.43 |
| Defensive behavior | 4 | 125 | | | | 0.64 |
| Steadiness on comb | 4 | 124 | | | | 0.66 |
| Swarming drive | 4 | 109 | | | | 0.43 |
| Varroa | - | 120 | | | | 0.54 |
| Performance index | - | 0 | | | | |
| Robustness in winter | 3.50 | | 70% | 100% | 170% | |
| Development in Spring | 2.50 | | | | | |
| Colony strength | 3.50 | | | | | |

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-17-208-272-2015-K

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Performance of the sisters

Amount of checked sisters: 10

| 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-17-208-271-2015 | DE-17-208 | 2 | 123 | 30.8 | 120 | 4 | Behavior | 4 | 123 | 4 | 116 | 116 | |
| DE-17-208-162-2015 | DE-17-208 | 3 | 127 | 24.9 | 114 | 4 | 124 | 4 | 122 | 4 | 104 | 129 | |
| DE-17-208-269-2015 | DE-17-208 | 3 | 106 | 9.8 | 97 | 4 | 107 | 2 | 105 | 3 | 79 | 117 | |
| DE-17-208-272-2015-K | DE-17-208 | 3 | 125 | 33.6 | 121 | 4 | 125 | 4 | 124 | 4 | 109 | 120 | |
| DE-17-208-163-2015 | DE-17-208 | 4 | 101 | 34.1 | 102 | 4 | 106 | 4 | 107 | 4 | 99 | 97 | |
| DE-17-208-166-2015 | DE-17-208 | 5 | 90 | 13.2 | 92 | 3.5 | 102 | 3.6 | 104 | 4 | 98 | 83 | |
| DE-17-208-168-2015 | DE-17-208 | 5 | 100 | 32.4 | 107 | 3.5 | 104 | 3.6 | 105 | 4 | 100 | 94 | |
| DE-17-208-267-2015-K | DE-17-208 | 5 | 124 | 42.4 | 119 | 4 | 121 | 4 | 120 | 4 | 105 | 123 | |
| DE-17-208-268-2015 | DE-17-208 | 6 | 117 | 4 | 106 | 4 | 116 | 3 | 114 | 4 | 102 | 120 | |
| DE-17-208-270-2015 | DE-17-208 | 6 | 106 | 4 | 103 | 3 | 102 | 3 | 101 | 4 | 95 | 111 | |