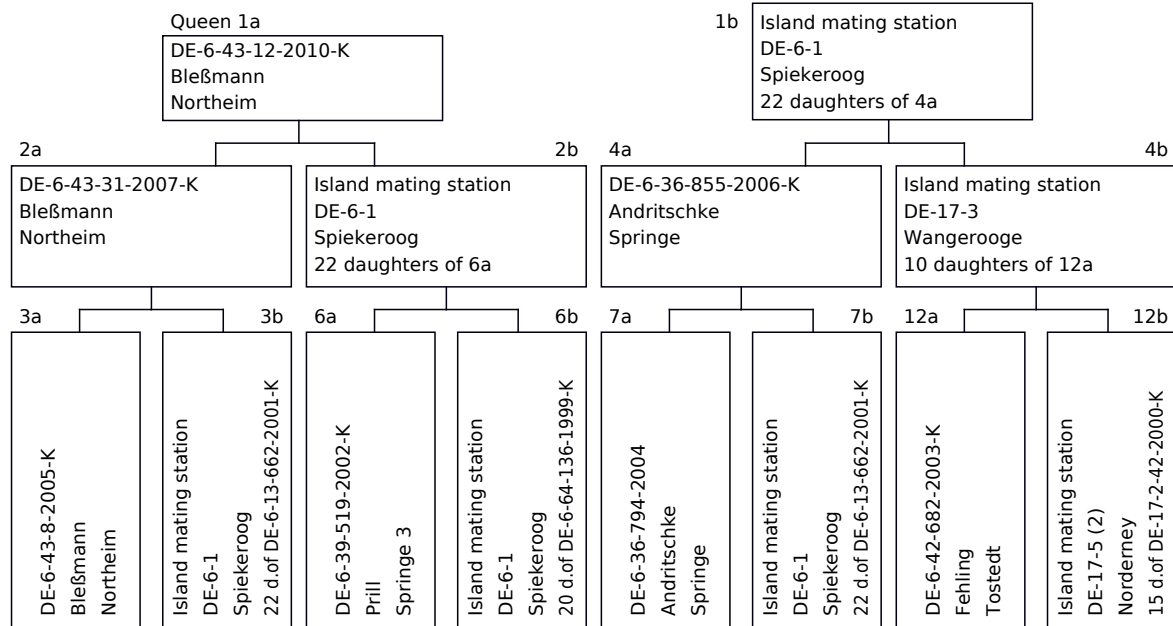


Tester of the queen: Bleßmann, Manfred, 37154 Northeim, DE-6-43, Apiary 1
 Breeder of the queen: Bleßmann, Manfred, 37154 Northeim, DE-6-43
1a Studbook number: **DE-6-43-12-2010-K**

Race line: -21 Sign: blue 24 Daughters of Queen: 9.6%
 Generation: 9 Hatch date: 15.7.2010 Workers: 4.8%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 7 | | | comparable colonies at the apiary | | |
|---|---------------------|-----------------|---------|-----------------------------------|------------------|------|
| | kg | % | Ranking | number | Yield average kg | |
| | 50.7 | 99.7 | 10 | 19 | 50.8 | |
| | Assessment* | Breeding values | | | Reliability | |
| Total breeding value¹ | - | 107 | ■ | | | |
| Honey yield | - | 98 | ■ | | | 0.45 |
| Defensive behavior | 3.80 | 110 | ■ | | | 0.64 |
| Steadiness on comb | 4 | 110 | ■ | | | 0.66 |
| Swarming drive | 4 | 113 | ■ | | | 0.45 |
| Varroa | - | 103 | ■ | | | 0.54 |
| Performance index | - | 0 | | | | |
| Robustness in winter | 3.50 | 70% 100% 170% | | | | |
| Development in Spring | 4 | | | | | |
| 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-6-43-12-2010-K

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Performance of the sisters

Amount of checked sisters: 8

| 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-6-43-7-2010 | DE-6-43 | 1 | 79 | 47.7 | 86 | 3.1 | 101 | 3.6 | 101 | 4 | 89 | 81 | |
| DE-6-43-8-2010 | DE-6-43 | 1 | 92 | 44.6 | 84 | 3.8 | 101 | 3.8 | 102 | 1 | 89 | 93 | |
| DE-6-43-9-2010 | DE-6-43 | 1 | 98 | 51 | 97 | 3.6 | 103 | 4 | 105 | 4 | 112 | 89 | |
| DE-6-43-10-2010 | DE-6-43 | 1 | 101 | 47 | 91 | 3.6 | 103 | 4 | 103 | 4 | 107 | 100 | |
| DE-6-43-11-2010 | DE-6-43 | 1 | 99 | 50.4 | 94 | 3.6 | 96 | 3.8 | 96 | 4 | 106 | 100 | |
| DE-6-43-12-2010-K | DE-6-43 | 1 | 107 | 50.7 | 98 | 3.8 | 110 | 4 | 110 | 4 | 113 | 103 | |
| DE-6-43-13-2010 | DE-6-43 | 1 | 95 | 50.4 | 96 | 3.5 | 100 | 4 | 102 | 4 | 110 | 87 | |
| DE-6-43-15-2010 | DE-6-43 | 1 | 89 | 50 | 92 | 3.4 | 91 | 3.8 | 92 | 4 | 106 | 85 | |