

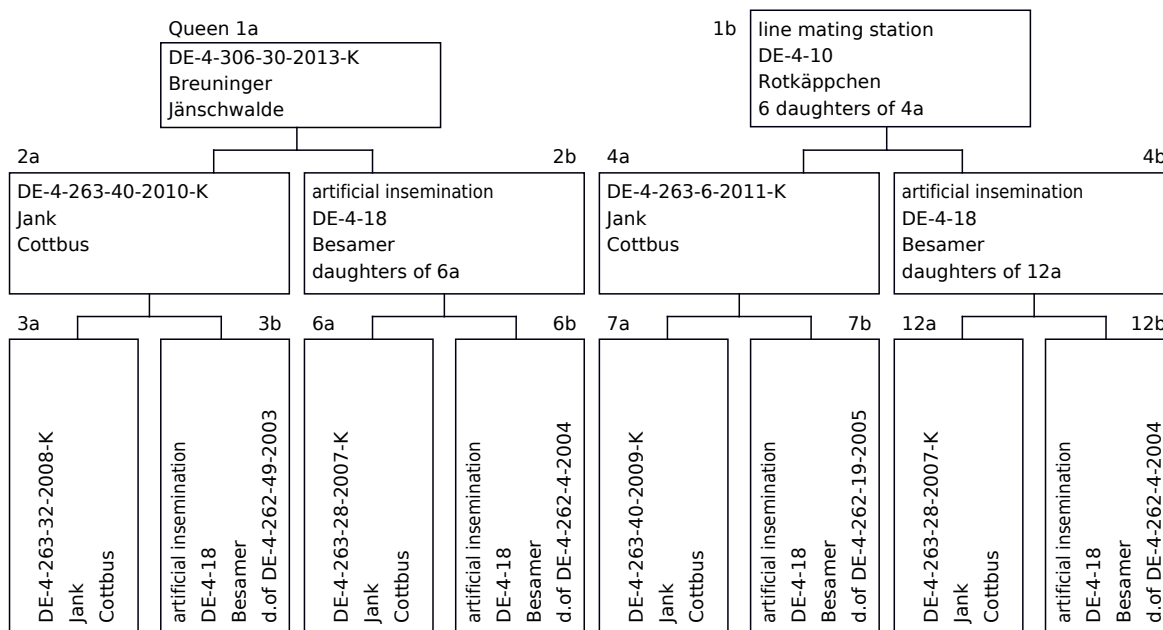
Tester of the queen: Breuninger, Hans Jörg, 03197 Jänschwalde, DE-4-306, Apiary 1
 Breeder of the queen: Breuninger, Hans Jörg, 03197 Jänschwalde, DE-4-306
1a Studbook number: **DE-4-306-30-2013-K**

Race line: -10
 Generation: 0

Sign: red 30
 Hatch date: 13.07.2013

Daughters of
 Queen: 13%
 Workers: 10.5%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony eigen | | | comparable colonies at the apiary | |
|---|-------------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 69 | 114.5 | 1 | 23 | 60.3 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 112 | | | |
| Honey yield | - | 118 | | | 0.33 |
| Defensive behavior | 4 | 106 | | | 0.49 |
| Steadiness on comb | 4 | 105 | | | 0.52 |
| Swarming drive | 4 | 112 | | | 0.32 |
| Varroa | - | (107) | | | 0.16 |
| Performance index | - | 0 | | | |
| 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 A

Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations (all customary breeding values over 100).

Breeding selection report DE-4-306-30-2013-K

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Performance of the sisters

Amount of checked sisters: 31

| 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-4-263-13-2013 | DE-4-263 | 2 | 103 | | 111 | | Behavior | | 115 | | 110 | (104) | |
| DE-4-263-16-2013 | DE-4-263 | 2 | 114 | | 109 | | | 115 | Inspection | | 110 | (109) | |
| DE-4-263-17-2013 | DE-4-263 | 2 | 109 | | 119 | | | | 97 | | 120 | (105) | |
| DE-4-263-18-2013 | DE-4-263 | 2 | 101 | | 107 | | | | 96 | | 98 | (103) | |
| DE-4-263-19-2013 | DE-4-263 | 2 | 95 | | 92 | | | | 95 | | 92 | (101) | |
| DE-4-263-21-2013 | DE-4-263 | 2 | 111 | | 124 | | | | 98 | | 121 | (105) | |
| DE-4-263-22-2013 | DE-4-263 | 2 | 112 | | 105 | | | | 115 | | 114 | (108) | |
| DE-4-263-24-2013 | DE-4-263 | 2 | 97 | | 95 | | | | 95 | | 98 | (101) | |
| DE-4-306-1-2013 | DE-4-306 | 1 | 105 | 53 | 101 | 4 | 104 | 4 | 103 | 4 | 106 | (105) | |
| DE-4-306-2-2013 | DE-4-306 | 1 | 82 | 63 | 102 | 3 | 64 | 3 | 64 | 4 | 91 | (96) | |
| DE-4-306-3-2013 | DE-4-306 | 1 | 109 | 63 | 112 | 4 | 105 | 4 | 104 | 4 | 110 | (106) | |
| DE-4-306-4-2013 | DE-4-306 | 1 | 100 | 39 | 87 | 4 | 102 | 4 | 101 | 4 | 102 | (102) | |
| DE-4-306-5-2013 | DE-4-306 | 1 | 95 | 65 | 110 | 3 | 86 | 4 | 87 | 4 | 100 | (98) | |
| DE-4-306-6-2013-K | DE-4-306 | 1 | 111 | 67 | 116 | 4 | 105 | 4 | 105 | 4 | 111 | (107) | |
| DE-4-306-7-2013 | DE-4-306 | 1 | 95 | 64 | 109 | 3 | 86 | 4 | 86 | 4 | 100 | (98) | |
| DE-4-306-8-2013-K | DE-4-306 | 1 | 112 | 69 | 118 | 4 | 106 | 4 | 105 | 4 | 112 | (107) | |
| DE-4-306-9-2013 | DE-4-306 | 1 | 107 | 64 | 111 | 4 | 105 | 4 | 105 | 3 | 95 | (107) | |
| DE-4-306-10-2013 | DE-4-306 | 1 | 106 | 55 | 103 | 4 | 104 | 4 | 103 | 4 | 107 | (105) | |
| DE-4-306-11-2013 | DE-4-306 | 1 | 110 | 66 | 115 | 4 | 105 | 4 | 105 | 4 | 111 | (107) | |
| DE-4-306-12-2013 | DE-4-306 | 1 | 110 | 66 | 115 | 4 | 105 | 4 | 105 | 4 | 111 | (107) | |
| DE-4-306-13-2013 | DE-4-306 | 1 | 109 | 62 | 111 | 4 | 105 | 4 | 104 | 4 | 109 | (106) | |
| DE-4-306-14-2013 | DE-4-306 | 1 | 105 | 53 | 101 | 4 | 104 | 4 | 103 | 4 | 106 | (105) | |
| DE-4-306-15-2013 | DE-4-306 | 1 | 110 | 66 | 115 | 4 | 105 | 4 | 105 | 4 | 111 | (107) | |
| DE-4-306-27-2013 | DE-4-306 | 1 | 103 | 48 | 96 | 4 | 103 | 4 | 102 | 4 | 105 | (104) | |
| DE-4-306-28-2013 | DE-4-306 | 1 | 107 | 65 | 112 | 4 | 105 | 4 | 105 | 3 | 96 | (107) | |
| DE-4-306-29-2013 | DE-4-306 | 1 | 98 | 36 | 83 | 4 | 102 | 4 | 100 | 4 | 101 | (102) | |
| DE-4-306-30-2013-K | DE-4-306 | 1 | 112 | 69 | 118 | 4 | 106 | 4 | 105 | 4 | 112 | (107) | |
| DE-4-306-31-2013 | DE-4-306 | 1 | 110 | 65 | 114 | 4 | 105 | 4 | 105 | 4 | 110 | (107) | |
| DE-4-306-32-2013 | DE-4-306 | 1 | 107 | 58 | 106 | 4 | 104 | 4 | 104 | 4 | 108 | (105) | |
| DE-4-306-33-2013 | DE-4-306 | 1 | 110 | 65 | 114 | 4 | 105 | 4 | 105 | 4 | 110 | (107) | |
| DE-4-306-34-2013 | DE-4-306 | 1 | 110 | 65 | 114 | 4 | 105 | 4 | 105 | 4 | 110 | (107) | |