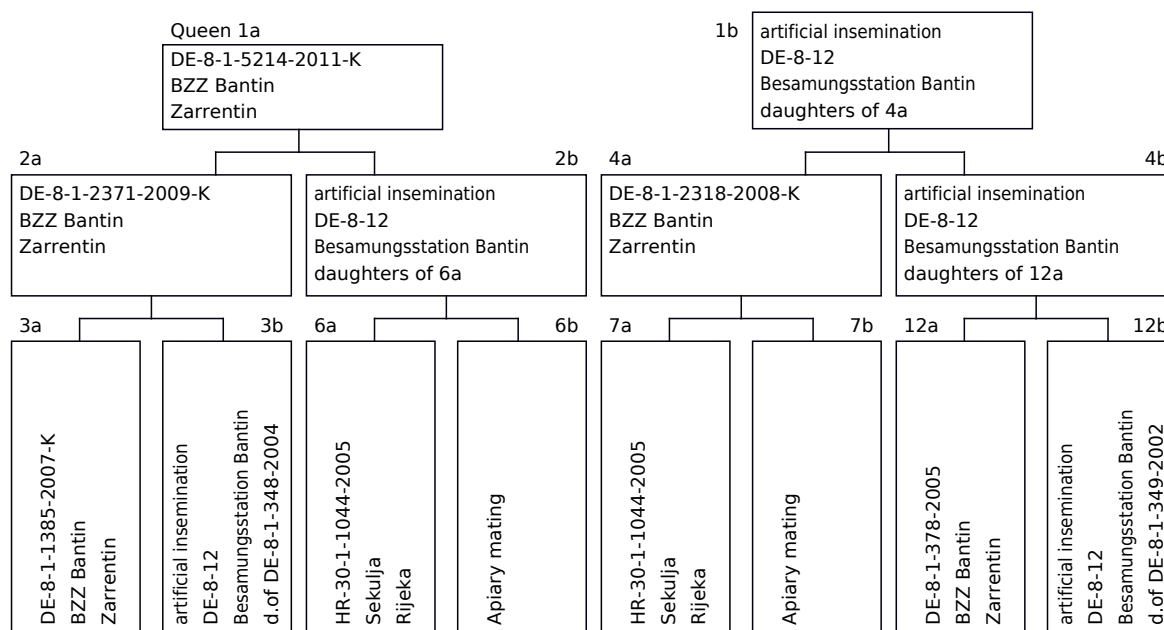


Tester of the queen: BZZ Bantin, Landesverband der Imker M-V, 19246 Zarrentin, DE-8-1, Apiary 1  
 Breeder of the queen: BZZ Bantin, Landesverband der Imker M-V, 19246 Zarrentin, DE-8-1  
**1a** Studbook number: **DE-8-1-5214-2011-K**

Race line: -26 Sign: white 60 Daughters of Queen: 0.7%  
 Generation: Hatch date: 7.6.2011 Workers: 4.1%

### A. Pedigree



### B. Own performance

| Performance test year                   | No. of the colony 1 |                 |         | comparable colonies at the apiary |                  |
|---|---------------------|-----------------|---------|-----------------------------------|------------------|
|   | kg                  | %               | Ranking | number                            | Yield average kg |
|   | 60                  | 166.2           | 1       | 9                                 | 36.1             |
|   | Assessment*         | Breeding values |         |                                   | Reliability      |
| <b>Total breeding value<sup>1</sup></b> | -                   | 120             |         |                                   |                  |
| Honey yield                             | -                   | 122             |         |                                   | 0.33             |
| Defensive behavior                      | 3.80                | 105             |         |                                   | 0.5              |
| Steadiness on comb                      | 3.80                | 103             |         |                                   | 0.54             |
| Swarming drive                          | 4                   | 115             |         |                                   | 0.34             |
| Varroa                                  | -                   | 121             |         |                                   | 0.43             |
| Performance index                       | -                   | 0               |         |                                   |                  |
| Robustness in winter                    | 3.80                |                 | 70%     | 100%                              | 170%             |
| Development in Spring                   | 3.90                |                 |         |                                   |                  |
| Colony strength                         | 3.90                |                 |         |                                   |                  |

<sup>1</sup>In 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-8-1-5214-2011-K

## Page 2

### Performance of the sisters

Amount of checked sisters: 9

| 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-8-1-5212-2011-K | DE-8-1              | 1      | 105                  | 27       | 96                   | 4                  | Behavior                          | 3.9                        | 109                     | 4              | drive                   | 98           |                   |
| DE-8-1-5213-2011   | DE-8-1              | 1      | 76                   | 36       | 92                   | 2.5                | 67                                | 2.8                        | inspection              | 1              | 77                      | 91           |                   |
| DE-8-1-5214-2011-K | DE-8-1              | 1      | 120                  | 60       | 122                  | 3.8                | 105                               | 3.8                        | 103                     | 4              | 115                     | 121          |                   |
| DE-8-1-5215-2011   | DE-8-1              | 1      | 110                  | 34       | 99                   | 3.7                | 98                                | 3.7                        | 94                      | 3.5            | 96                      | 124          |                   |
| DE-8-1-5216-2011   | DE-8-1              | 1      | 89                   | 31       | 96                   | 3.7                | 97                                | 3.7                        | 99                      | 3.7            | 109                     | 78           |                   |
| DE-8-1-5217-2011   | DE-8-1              | 1      | 91                   | 34       | 98                   | 3.7                | 96                                | 3.6                        | 96                      | 3.7            | 107                     | 84           |                   |
| DE-8-1-5218-2011-K | DE-8-1              | 1      | 103                  | 36       | 102                  | 3.8                | 103                               | 3.8                        | 102                     | 4              | 113                     | 98           |                   |
| DE-8-1-5219-2011   | DE-8-1              | 1      | 100                  | 30       | 95                   | 3.8                | 102                               | 3.8                        | 101                     | 1              | 92                      | 104*         |                   |
| DE-8-1-5222-2011-K | DE-8-1              | 1      | 112                  | 37       | 103                  | 3.8                | 103                               | 3.8                        | 100                     | 4              | 109                     | 118          |                   |

Only one Varroa trait was recorded