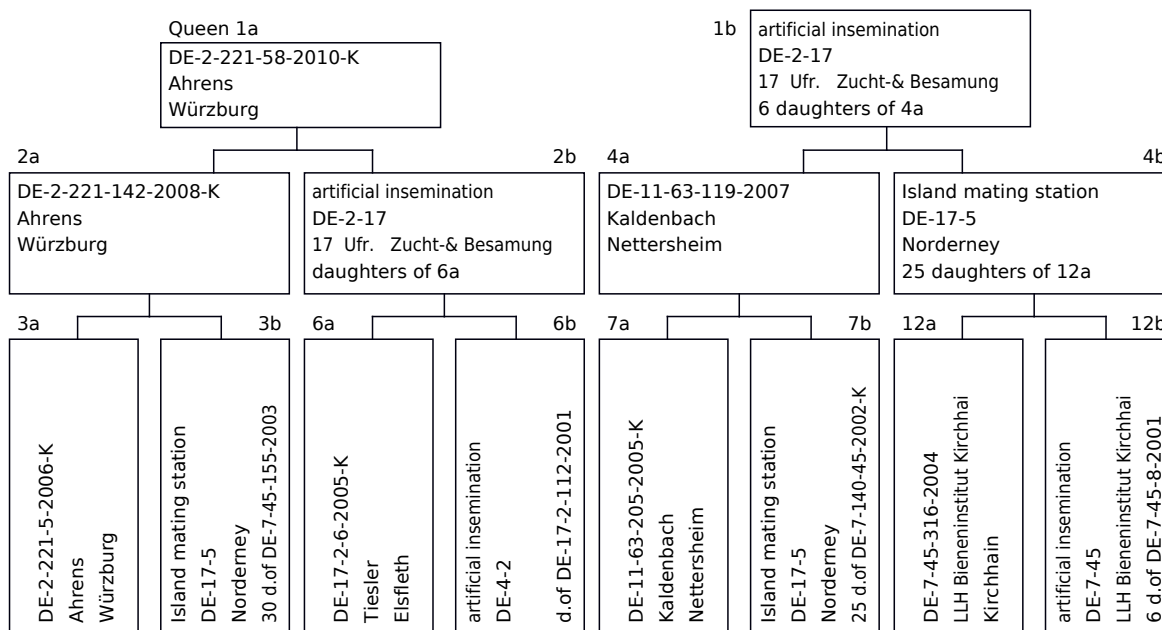


Tester of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221, Apiary 1  
 Breeder of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221  
**1a** Studbook number: **DE-2-221-58-2010-K**

Race line: Sign: blue 20  
 Generation: 5 Hatch date: 07.06.2010

Daughters of Queen: 0.8%  
 Workers: 0.4%

### A. Pedigree



### B. Own performance

Performance test year	No. of the colony V 35			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	83	124.5	1	14	66.7
	Assessment*	Breeding values			Reliability
<b>Total breeding value<sup>1</sup></b>	-	132			
Honey yield	-	118			0.41
Defensive behavior	3.50	110			0.61
Steadiness on comb	2.60	107			0.64
Swarming drive	4	112			0.41
Varroa	-	145			0.52
Performance index	-	0			
Robustness in winter	3.50		70%	100%	170%
Development in Spring	4				
Colony strength	4				

<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-2-221-58-2010-K

## Page 2

### 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-2-221-55-2010	DE-2-221	1	111	59.6	97	3.5	103	2.2	100	3.5	100	118	
DE-2-221-58-2010-K	DE-2-221	1	132	83	118	3.5	110	2.6	107	4	112	145	
DE-2-221-62-2010	DE-2-221	1	109	61.3	97	3.2	103	2.7	101	1.5	89	122	
DE-2-221-64-2010	DE-2-221	1	122	73.6	109	3.1	101	2.5	97	4	103	139	
DE-2-221-78-2010	DE-2-221	1	120	69.3	107	3.4	108	2.7	106	4	110	127	
DE-2-221-47-2010	DE-6-5	3	116		103		114		112		107	118*	
DE-2-221-57-2010	DE-6-5	3	105		103		96		95		100	111*	
DE-2-221-76-2010	DE-7-143	1	119		119		105		103		103	126	
DE-2-221-59-2010	DE-7-146	1	118		105		104		101		90	135	
DE-2-221-61-2010	DE-7-146	1	117		122		110		110		115	111	

Only one Varroa trait was recorded