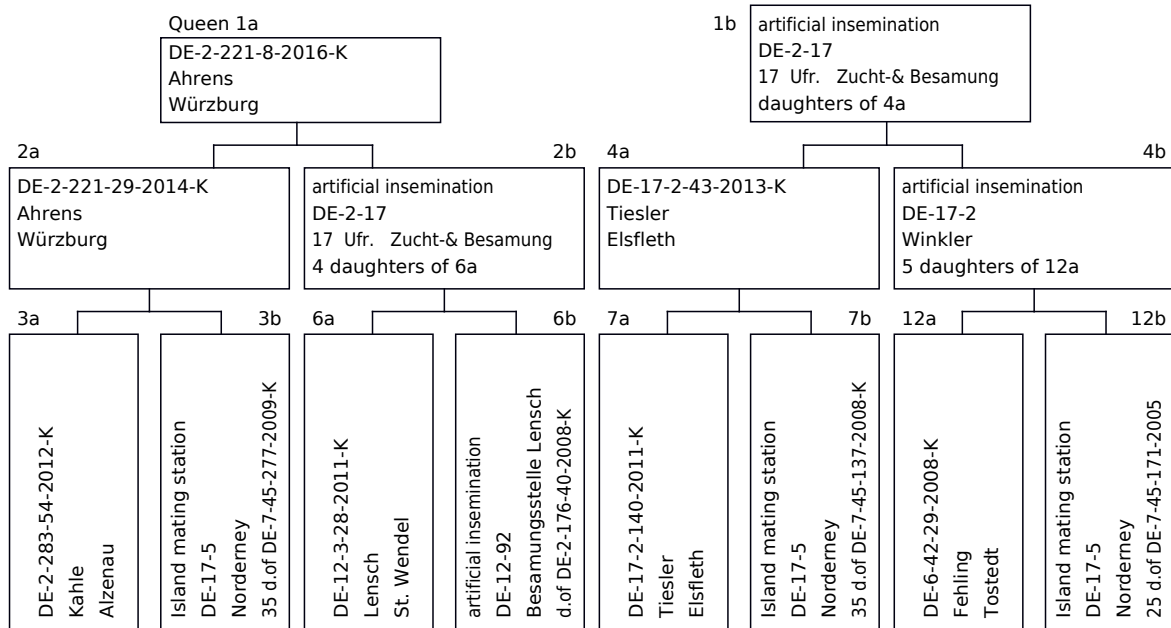


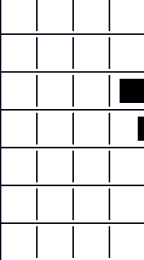
Tester of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221, Apiary 1
 Breeder of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221
1a Studbook number: **DE-2-221-8-2016-K**

Race line: -70 Sign: white 8 Daughters of Queen: 0.7%
 Generation: 2 Hatch date: 13.05.2016 Workers: 1.3%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	74.7	141.7	1	20	52.7	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	113				
Honey yield	-	121				0.41
Defensive behavior	2.80	93				0.62
Steadiness on comb	3	98				0.62
Swarming drive	4	108				0.37
Varroa	-	118				0.35
Performance index	-	0				
Robustness in winter	4					
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 B
 Suitable for breeding.

Breeding selection report DE-2-221-8-2016-K

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Performance of the sisters

Amount of checked sisters: 12

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-2-221-7-2016-K	DE-2-221	1	117	67.8	116	3.3	Behavior	3.4	109	3.5	109	112*	
DE-2-221-8-2016-K	DE-2-221	1	113	74.7	121	2.8	93	3	98	4	108	118	
DE-2-221-24-2016	DE-2-221	1	101	62.8	111	2.6	93	3.1	100	4	107	97	
DE-2-221-25-2016	DE-2-221	1	96	31.7	86	1.8	77	3	89	4	101	114	
DE-2-221-26-2016	DE-2-221	1	95	45.7	97	2	73	2.7	80	4	102	112	
DE-2-221-27-2016-K	DE-2-221	1	110	74.7	121	2.7	100	3.4	110	4	109	101*	
DE-2-221-1-2016	DE-7-184	1	113		112		97		104		111	116	
DE-2-221-2-2016	DE-7-184	1	104		107		92		99		110	105	
DE-2-221-3-2016	DE-7-184	1	105		95		101		109		110	103	
DE-2-221-4-2016	DE-7-184	1	130		120		112		120		137	120	
DE-2-221-12-2016	DE-16-345	1	108		96		92		103		103	120	
DE-2-221-17-2016	DE-16-345	1	101		103		91		102		103	102	

Only one Varroa trait was recorded