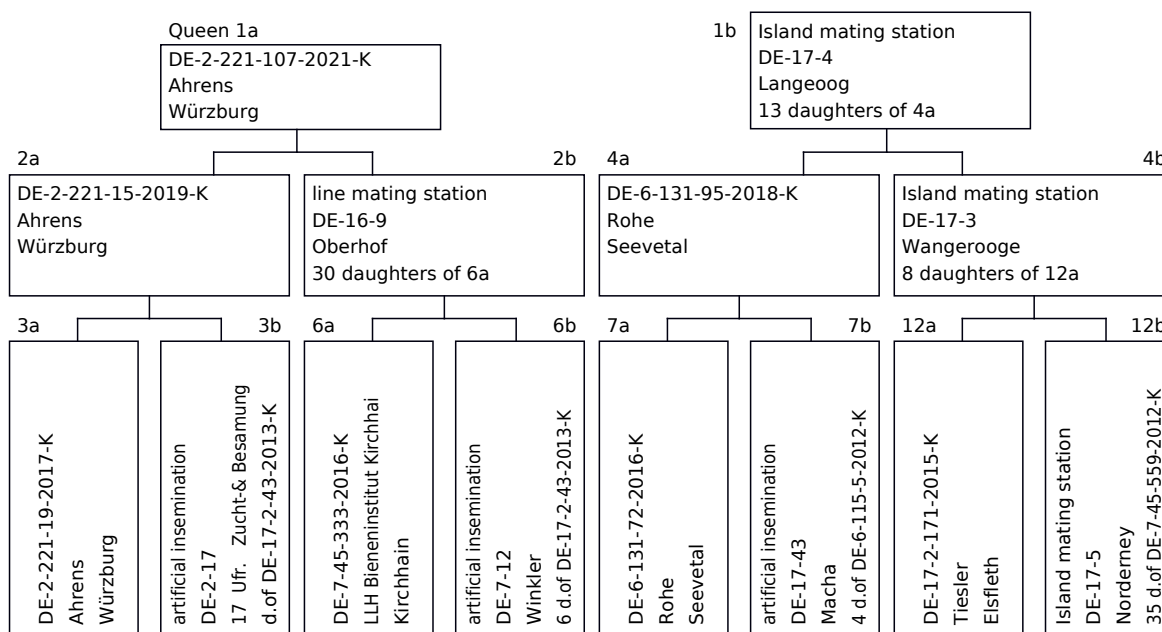


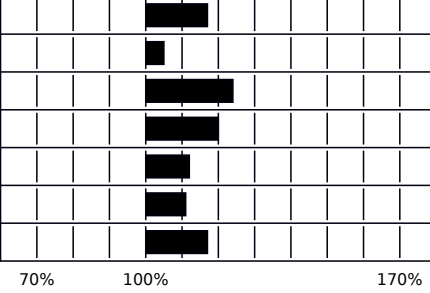
Tester of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221, Apiary 1
 Breeder of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221
1a Studbook number: **DE-2-221-107-2021-K**

Race line: -70 Sign: white 48 Daughters of Queen: 7.0%
 Generation: 11 Hatch date: 16.06.2021 Workers: 2.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 101			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	67	130.6	2	15	51.3	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	117				
Honey yield	-	105				0.45
Defensive behavior	3.90	124				0.54
Steadiness on comb	3.50	120				0.54
Swarming drive	3.50	112				0.49
Varroa	-	111				0.51
Performance index	-	117				0.45
Robustness in winter	3					
Development in Spring	3					
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-2-221-107-2021-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 ndex
DE-2-221-98-2021	DE-2-221	1	114	54.7	103	3.5	103	3.5	103	4	103	106	116
DE-2-221-107-2021-K	DE-2-221	1	117	67	105	3.9	124	3.5	120	3.5	112	111	117
DE-2-221-113-2021	DE-2-221	1	115	39	98	3.6	121	3.4	118	3.5	112	111	114
DE-2-221-115-2021	DE-2-221	1	106	59	102	3.7	123	3.7	121	3	109	89	116
DE-2-221-106-2021	DE-2-221	2	114	49.5	101	3.8	121	3.4	117	3	109	109	114
DE-2-221-116-2021-K	DE-2-221	2	114	63.8	105	3.9	123	3.8	121	3	110	106	117
DE-2-221-120-2021	DE-2-221	2	111	56.9	101	4	122	3.5	118	2	103	105	113
DE-2-221-97-2021	DE-7-197	1	111		103		117		114		107	105	112
DE-2-221-99-2021	DE-7-197	1	111		103		117		114		107	105	112