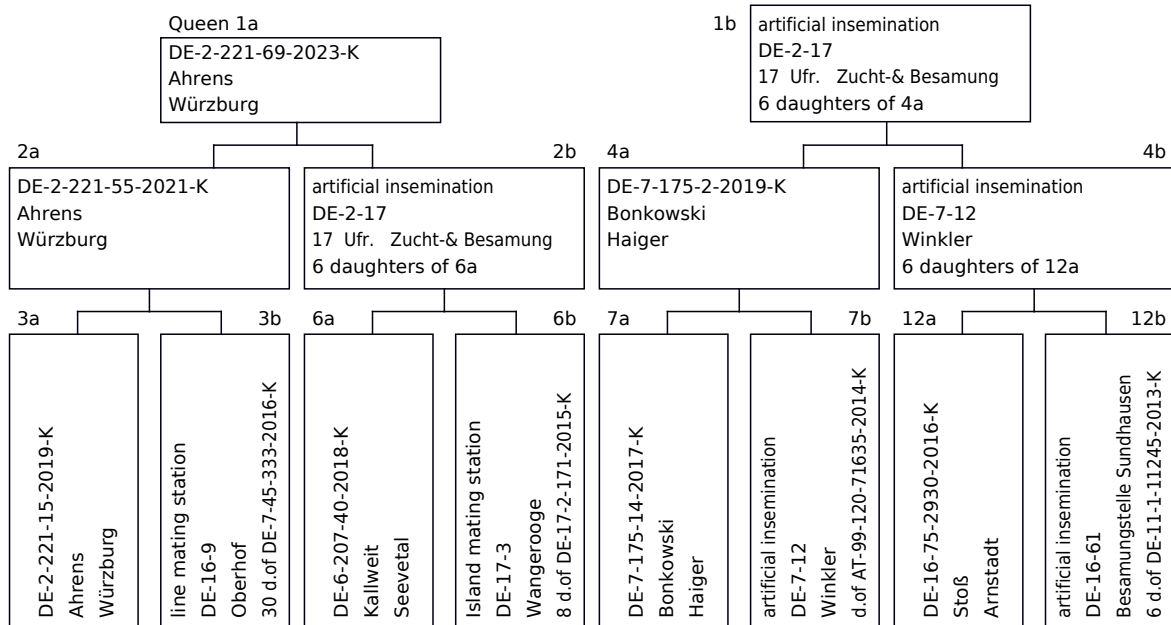


Tester of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221, Apiary 1
 Breeder of the queen: Ahrens, Dirk, 97074 Würzburg, DE-2-221
1a Studbook number: **DE-2-221-69-2023-K**

Race line: -70 Sign: red 78 Daughters of Queen: 2.6%
 Generation: 12 Hatch date: 02.06.2023 Workers: 1.7%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 13			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	70.5	111.2	7	19	63.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	120			
Honey yield	-	108			0.44
Defensive behavior	3.50	117			0.53
Steadiness on comb	3.30	112			0.54
Swarming drive	4	119			0.46
Varroa	-	117			0.48
Performance index	-	117			0.44
Robustness in winter	2.50		70%	100%	170%
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 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-2-221-69-2023-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-2-221-74-2023**K	DE-2-147	1	115		(106)		109		109		(114)	(114)	112
DE-2-221-59-2023	DE-2-221	1	116	75.5	108	3	110	2.6	104	3.5	116	116	111
DE-2-221-60-2023-K	DE-2-221	1	116	68.7	103	3.5	118	3.3	113	1	102	117	110
DE-2-221-69-2023-K	DE-2-221	1	120	70.5	108	3.5	117	3.3	112	4	119	117	117
DE-2-221-70-2023-K	DE-2-221	1	120	83.7	110	3.5	117	3.3	112	4	120	116	117
DE-2-221-71-2023	DE-2-221	1	117	54.7	105	3.1	113	3.2	110	4	119	114	114
DE-2-221-56-2023	DE-7-146	1	117		109		114		109		114	114	114
DE-2-221-57-2023	DE-7-146	1	117		105		113		108		113	116	112
DE-2-221-51-2023	DE-13-377	1	114		105		111		104		112	114	109
DE-2-221-52-2023	DE-13-377	1	114		98		116		113		100	116	108

Colony without performance tests