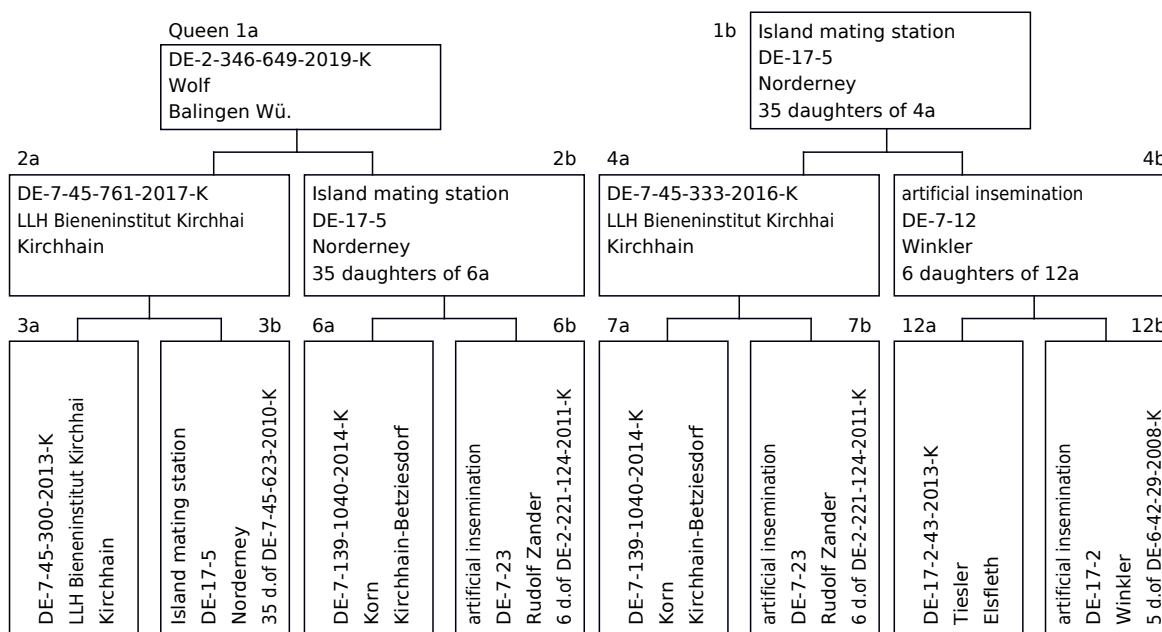


Tester of the queen: Wolf, Christian, 72336 Balingen Wü., DE-2-346, Apiary 1
 Breeder of the queen: Wolf, Christian, 72336 Balingen Wü., DE-2-346
1a Studbook number: **DE-2-346-649-2019-K**

Race line: Sign: green 7
 Generation: Hatch date: Daughters of Queen: 1.8%
 Workers: 7.2%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 49			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	39.8	121.3	4	10	32.8
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	118			
Honey yield	-	108			0.52
Defensive behavior	3.50	115			0.59
Steadiness on comb	3.20	111			0.59
Swarming drive	4	114			0.47
Varroa	-	116			0.55
Performance index	-	114			0.52
Robustness in winter	3		70%	100%	170%
Development in Spring	3				
Colony strength	3				

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-2-346-649-2019-K

Page 2

Performance of the sisters

Amount of checked sisters: 8

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-2-346-516-2019-K	DE-2-346	1	111	25	103	3.5	109	3	109	4	109	106*	111
DE-2-346-607-2019	DE-2-346	1	115	28	104	3	110	3	107	4	112	116	110
DE-2-346-614-2019	DE-2-346	1	117	18	101	3.5	116	3.2	111	4	113	117	112
DE-2-346-615-2019-K	DE-2-346	1	119	31	105	3.5	115	3.2	111	4	113	120	113
DE-2-346-647-2019-K	DE-2-346	1	120	23	104	3.5	118	3.7	116	4	114	118	115
DE-2-346-649-2019-K	DE-2-346	1	118	39.8	108	3.5	115	3.2	111	4	114	116	114
DE-2-346-428-2019-K	DE-2-398	1	125		113		130		128		117	(115)	126
DE-2-346-413-2019	DE-7-322	1	118		104		118		113		113	117	114

Only one Varroa trait was recorded