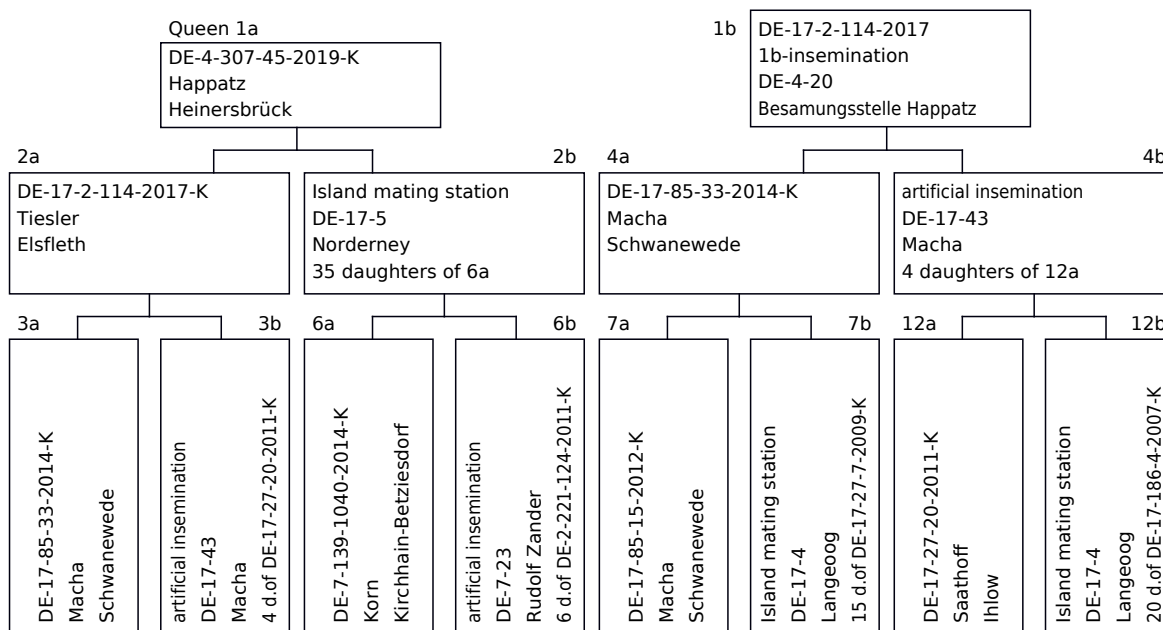


Tester of the queen: Happatz, Maik, 03185 Heinersbrück, DE-4-307, Apiary 2
 Breeder of the queen: Happatz, Maik, 03185 Heinersbrück, DE-4-307
1a Studbook number: **DE-4-307-45-2019-K**

Race line: -C-03 Sign: green 45 Daughters of Queen: 1.4%
 Generation: 1 Hatch date: 01.06.2019 Workers: 28.2%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 21 Oma			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	51.2	103.1	12	30	49.6
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	121			
Honey yield	-	118			0.58
Defensive behavior	3.90	120			0.7
Steadiness on comb	3.70	115			0.7
Swarming drive	4	114			0.58
Varroa	-	116			0.64
Performance index	-	120			0.58
Robustness in winter	3		70%	100%	170%
Development in Spring	3.50				
Colony strength	3.30				

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-4-307-45-2019-K

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Performance of the sisters

Amount of checked sisters: 2

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-4-307-7-2019-D	DE-4-307	2	121	48.9	118	3.8	Behavior	3.8	118	4	118	115	120
DE-4-307-45-2019-K	DE-4-307	2	121	51.2	118	3.9	120	3.7	115	4	114	116	120