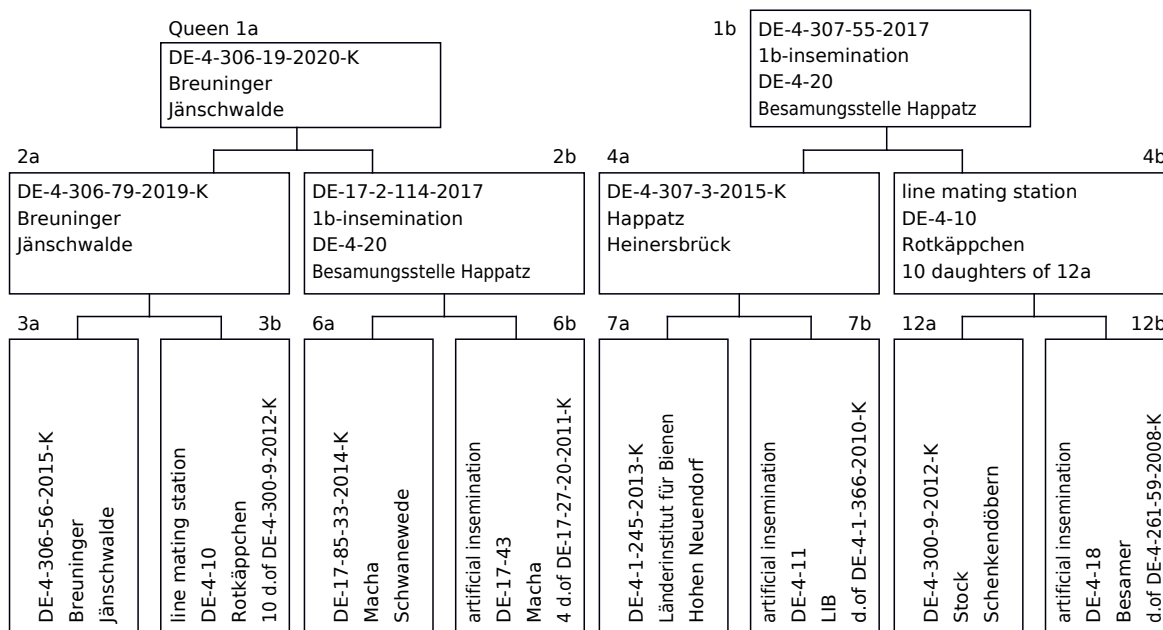


Tester of the queen: Breuninger, Hans Jörg, 03197 Jänschwalde, DE-4-306, Apiary 9
 Breeder of the queen: Breuninger, Hans Jörg, 03197 Jänschwalde, DE-4-306
1a Studbook number: **DE-4-306-19-2020-K**

Race line: -4-10 Sign: blue 19 Daughters of Queen: 0.0%
 Generation: 4 Hatch date: Workers: 6.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
				0	
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	124			
Honey yield	-	(121)			0.37
Defensive behavior	4	124			0.54
Steadiness on comb	4	129			0.55
Swarming drive	4	117			0.48
Varroa	-	111*			0.49
Performance index	-	126			0.38
Robustness in winter			70%	100%	170%
Development in Spring	4				
Colony strength	4				

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%.

Only one Varroa trait was recorded

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-4-306-19-2020-K

Page 2

Performance of the sisters

Amount of checked sisters: 5

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-4-306-20-2020	DE-4-306	1	120	50	119	4	119	4	129	4	117	109	123
DE-4-306-19-2020-K	DE-4-306	9	124		(121)	4	124	4	129	4	117	111*	126
DE-4-306-21-2020-K	DE-4-306	9	124		(121)	4	124	4	129	4	117	111*	126
DE-4-307-436-2020	DE-4-307	7	115		117		112		116		114	107	117
DE-4-307-441-2020	DE-4-307	7	114		112		114		118		110	106	116

Only one Varroa trait was recorded