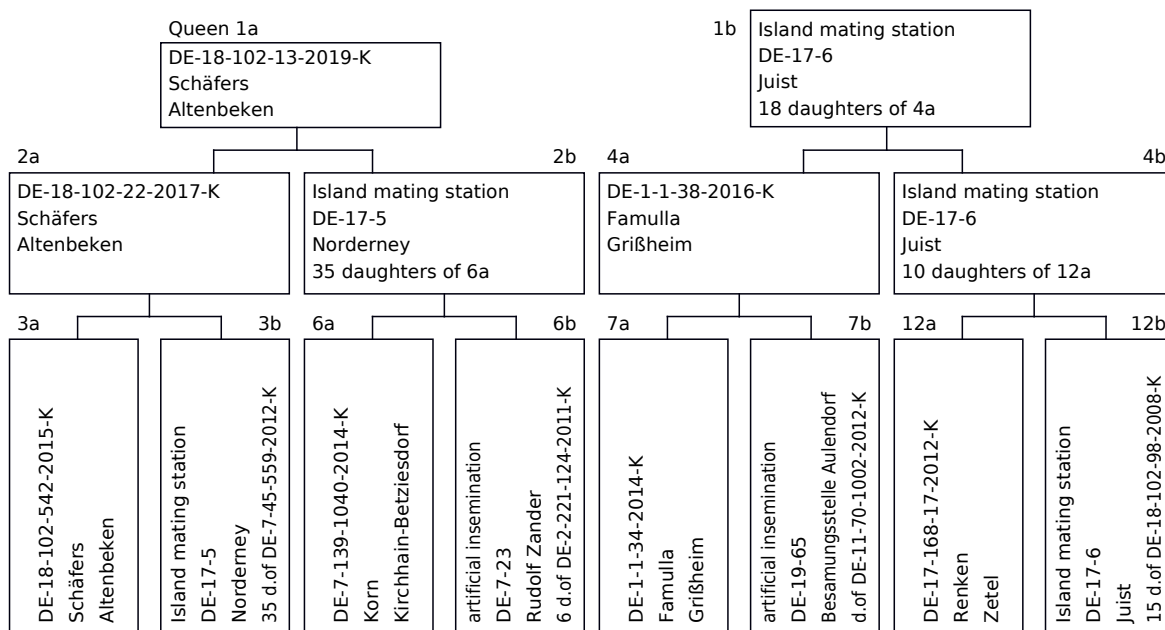


Tester of the queen: Schäfers, Heinrich, 33184 Altenbeken, DE-18-102, Apiary 1
 Breeder of the queen: Schäfers, Heinrich, 33184 Altenbeken, DE-18-102
1a Studbook number: **DE-18-102-13-2019-K**

Race line: -12 Sign: green 20 Daughters of Queen: 1.4%
 Generation: 18 Hatch date: 10.06.2019 Workers: 0.7%

A. Pedigree



B. Own performance

Performance test year	No. of the colony M13			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	59.3	132.4	1	10	44.8
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	114			
Honey yield	-	119			0.44
Defensive behavior	4	116			0.53
Steadiness on comb	3.80	112			0.53
Swarming drive	4	108			0.39
Varroa	-	106*			0.43
Performance index	-	116			0.44
Robustness in winter	3.80		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-18-102-13-2019-K

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Performance of the sisters

Amount of checked sisters: 4

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-18-102-8-2019-K	DE-18-102	1	113	42.7	111	3.8	111	3.8	111	4	107	107*	113
DE-18-102-13-2019-K	DE-18-102	1	114	59.3	119	4	116	3.8	112	4	108	106*	116
DE-18-102-5-2019	DE-18-603	1	110		114		114		111		94	(105)	110
DE-18-102-6-2019	DE-18-603	1	112		108		115		112		110	(105)	113

Only one Varroa trait was recorded