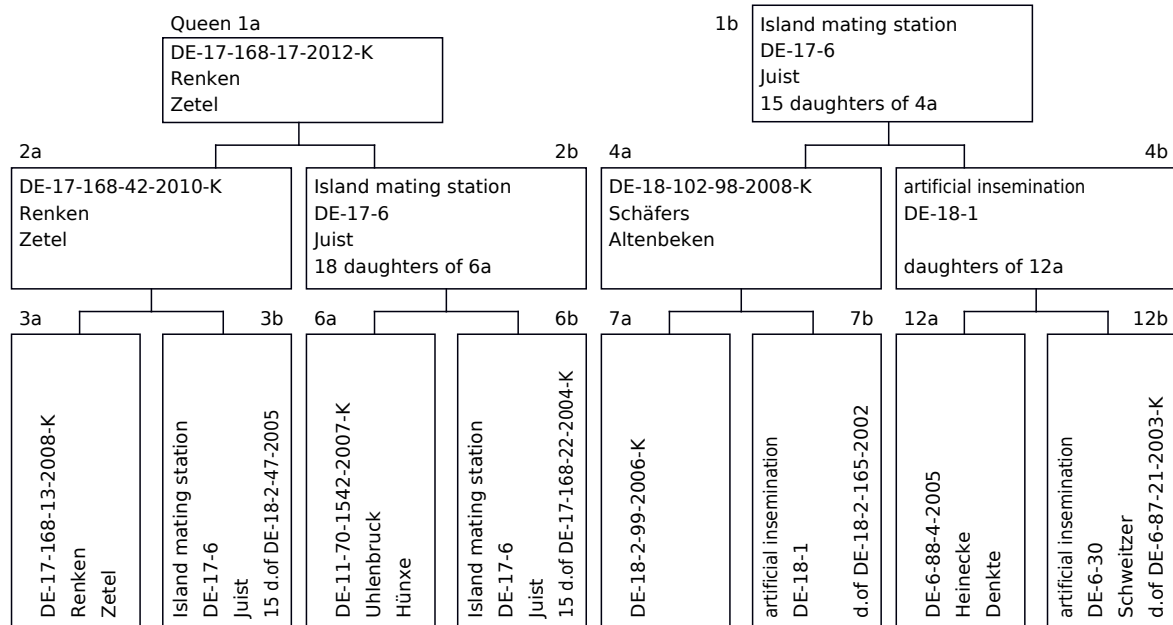


Tester of the queen: Renken, Wilhelm, Zetel, DE-17-168, Apiary 1
 Breeder of the queen: Renken, Wilhelm, Zetel, DE-17-168
1a Studbook number: **DE-17-168-17-2012-K**

Race line: -14 Sign: yellow 23 Daughters of Queen: 1%
 Generation: 7 Hatch date: 19.6.2012 Workers: 1.6%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 5			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	52.7	129.6	1	13	40.7
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	122			
Honey yield	-	121			0.41
Defensive behavior	4	121			0.61
Steadiness on comb	4	120			0.64
Swarming drive	4	119			0.41
Varroa	-	112*			0.5
Performance index	-	0			
Robustness in winter	4		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 A

Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations (all customary breeding values over 100).

Breeding selection report DE-17-168-17-2012-K

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Performance of the sisters

Amount of checked sisters: 25

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-17-168-4-2012	DE-17-166	2	103		104		Behavior		109		drive	93*	
DE-17-168-6-2012	DE-17-166	2	110		110		110		inspection		111	104*	
DE-17-168-7-2012	DE-17-166	2	96		101		92		91		90	102*	
DE-17-168-8-2012	DE-17-166	2	103		104		109		110		112	92*	
DE-17-168-10-2012	DE-17-166	2	113		115		110		110		112	107*	
DE-17-168-11-2012	DE-17-168	1	86	28.5	92	3.4	100	3.8	103	1	93	77*	
DE-17-168-13-2012	DE-17-168	1	85	30	91	3.2	87	3	88	4	101	82*	
DE-17-168-14-2012-K	DE-17-168	1	114	36.7	106	4	119	4	119	4	115	106*	
DE-17-168-15-2012	DE-17-168	1	103	34	99	3.8	104	3.5	104	4	108	101*	
DE-17-168-16-2012	DE-17-168	1	105	44	108	3.6	102	3.6	102	4	109	101*	
DE-17-168-17-2012-K	DE-17-168	1	122	52.7	121	4	121	4	120	4	119	112*	
DE-17-168-37-2012	DE-17-168	1	77	34	92	2.5	81	3	83	1	83	79*	
DE-17-168-39-2012	DE-17-168	1	110	43	109	3.7	112	4	112	3	101	107*	
DE-17-168-51-2012-K	DE-17-168	1	120	50.4	119	4	120	4	120	4	118	110*	
DE-17-171-10-2012	DE-17-171	2	94		95		96		96		90	97*	
DE-17-171-11-2012	DE-17-171	2	102		102		103		103		111	97*	
DE-17-171-13-2012	DE-17-171	2	91		93		88		88		88	98*	
DE-17-171-15-2012	DE-17-171	2	111		114		110		110		115	103*	
DE-17-171-18-2012	DE-17-171	2	115		104		129		129		123	98*	
DE-17-171-20-2012	DE-17-171	2	103		111		104		105		99	99*	
DE-17-171-21-2012	DE-17-171	2	95		104		97		98		102	89*	
DE-17-171-22-2012-D	DE-17-171	3	118		115		120		120		114	108*	
DE-17-171-23-2012	DE-17-171	3	98		104		95		94		102	99*	
DE-17-171-25-2012	DE-17-171	3	101		105		100		100		104	98*	
DE-17-171-26-2012	DE-17-171	3	109		104		111		110		108	105*	

Only one Varroa trait was recorded