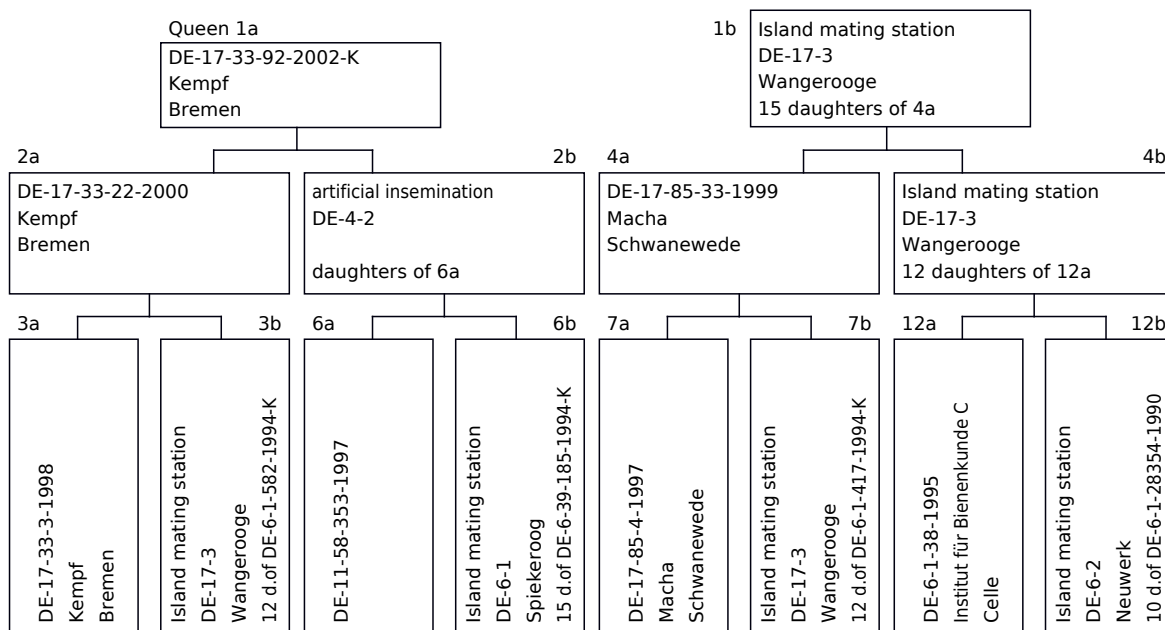


Tester of the queen: DE-17-77, Apiary 1
 Breeder of the queen: Kempf, Dr. Gotthard, 28355 Bremen, DE-17-33
1a Studbook number: **DE-17-33-92-2002-K**

Race line: -20
 Generation: Sign: yellow
 Hatch date: Daughters of Queen: 0.5%
 Workers: 0.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	59	133.5	2	16	44.2
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	112			
Honey yield	-	115			0.43
Defensive behavior	3.90	119			0.63
Steadiness on comb	3.90	121			0.65
Swarming drive	3.90	109			0.43
Varroa	-	100*			0.52
Performance index	-	0			
Robustness in winter			70%	100%	170%
Development in Spring	3.80				
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 B

Suitable for breeding.

Breeding selection report DE-17-33-92-2002-K

Page 2

Performance of the sisters

Amount of checked sisters: 6

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-17-33-87-2002	DE-17-77	1	104	33	89	3.8	100	3.7	100	3.8	100	106*	
DE-17-33-89-2002	DE-17-77	1	99	41	94	3.4	100	3.6	100	3.9	94	103*	
DE-17-33-91-2002	DE-17-77	1	82	43	88	2	73	2	73	2	67	102*	
DE-17-33-92-2002-K	DE-17-77	1	112	59	115	3.9	119	3.9	121	3.9	109	100*	
DE-17-33-94-2002	DE-17-77	1	103	47	100	3.6	106	3.7	106	1	84	108*	
DE-17-33-97-2002	DE-17-77	1	105	41	96	3.7	108	3.7	108	3.7	96	106*	

Only one Varroa trait was recorded