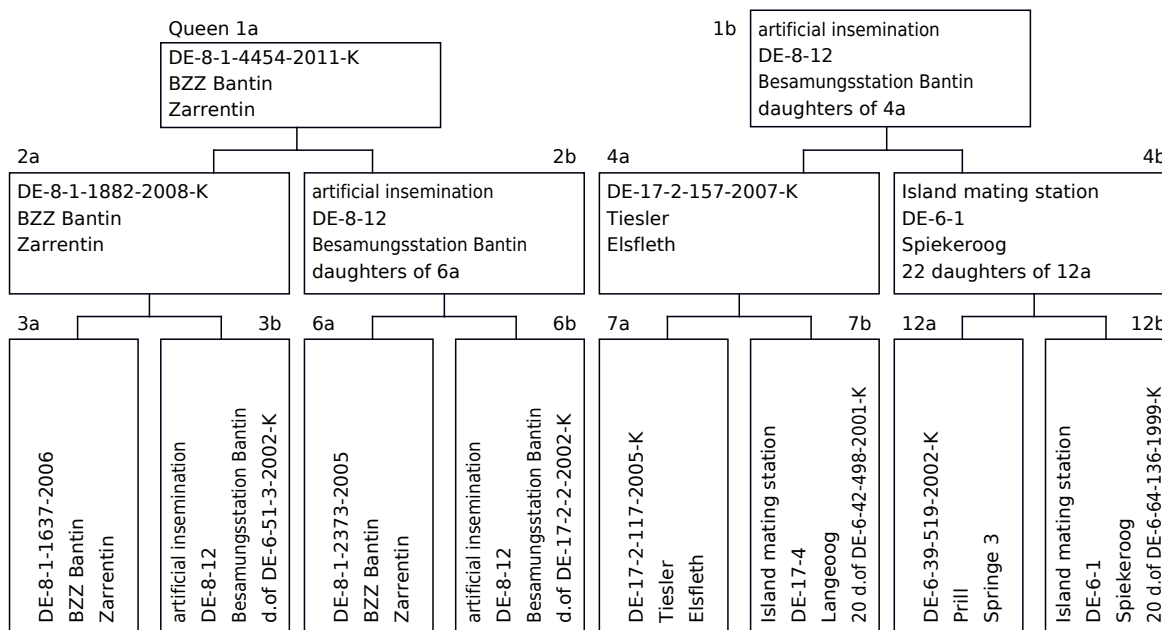


Tester of the queen: BZZ Bantin, Landesverband der Imker M-V, 19246 Zarrentin, DE-8-1, Apiary 2
 Breeder of the queen: BZZ Bantin, Landesverband der Imker M-V, 19246 Zarrentin, DE-8-1
1a Studbook number: **DE-8-1-4454-2011-K**

Race line: -31 Sign: white 43 Daughters of Queen: 0%
 Generation: Hatch date: 7.6.2011 Workers: 0.3%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 1			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	40	89	8	15	44.9	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	101				
Honey yield	-	90	■			0.39
Defensive behavior	3.80	106	■			0.59
Steadiness on comb	3.80	105	■			0.62
Swarming drive	3.50	102				0.39
Varroa	-	101				0.49
Performance index	-	0				
Robustness in winter	3.60		70%	100%	170%	
Development in Spring	3.80					
Colony strength	3.80					

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 B
Suitable for breeding.

Breeding selection report DE-8-1-4454-2011-K

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Performance of the sisters

Amount of checked sisters: 8

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 ndex
DE-8-1-4451-2011	DE-8-1	2	98	40	87	3.7	Behavior	3	109	4	102	107	
DE-8-1-4452-2011	DE-8-1	2	103	34	87	3.9	111	3.9	110	3.7	106	101	
DE-8-1-4453-2011-K	DE-8-1	2	100	39	91	4	114	3.9	115	3	105	90	
DE-8-1-4454-2011-K	DE-8-1	2	101	40	90	3.8	106	3.8	105	3.5	102	101	
DE-8-1-4455-2011	DE-8-1	2	86	27	76	3.5	92	3.5	91	1	81	96	
DE-8-1-4458-2011	DE-8-1	2	68	32	76	3	77	3	79	2.5	84	70	
DE-8-1-4459-2011-K	DE-8-1	2	112	37	91	3.9	114	4	111	3.9	108	115	
DE-8-1-4460-2011-K	DE-8-1	2	111	49	99	3.9	112	3.9	110	3.5	106	111	