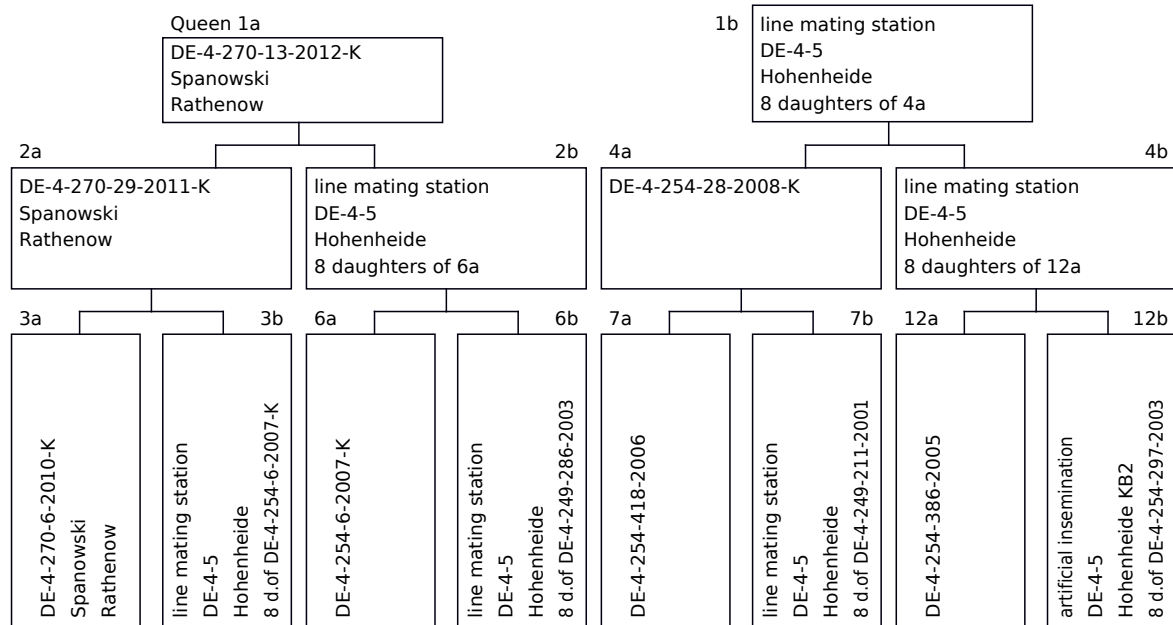


Tester of the queen: Moraw, Andreas, 14712 Rathenow, DE-4-278, Apiary 1
 Breeder of the queen: Spanowski, Werner, 14712 Rathenow, DE-4-270
1a Studbook number: **DE-4-270-13-2012-K**

Race line: Sign: yellow 13
 Generation: Hatch date: 17.05.2012

Daughters of Queen: 26.5%
 Workers: 10%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 4			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	65	106.7	1	10	60.9	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	109	■			
Honey yield	-	110	■			0.4
Defensive behavior	3.60	106	■			0.54
Steadiness on comb	3.60	105	■			0.57
Swarming drive	3.60	99	■			0.38
Varroa	-	(111)	■			0.2
Performance index	-	0				
Robustness in winter	3.90	70% 100% 170%				
Development in Spring	3.90					
Colony strength	3.90					

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-4-270-13-2012-K

Page 2

Performance of the sisters

Amount of checked sisters: 16

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-4-278-4-2012	DE-4-270	1	100		102		Behavior		ding		dgge	(105)	
DE-4-278-5-2012	DE-4-270	1	108		106		106		inspection		101	(109)	
DE-4-278-6-2012	DE-4-270	1	103		107		98		98		96	(107)	
DE-4-278-8-2012	DE-4-270	1	115		107		115		114		100	(115)	
DE-4-278-10-2012	DE-4-270	1	93		93		89		88		86	(103)	
DE-4-278-11-2012	DE-4-270	1	102		104		97		97		93	(106)	
DE-4-270-11-2012	DE-4-278	1	98	59	99	3.2	92	3.4	91	3.8	95	(105)	
DE-4-270-12-2012	DE-4-278	1	105	61	104	3.4	103	3.7	103	3.7	98	(107)	
DE-4-270-13-2012-K	DE-4-278	1	109	65	110	3.6	106	3.6	105	3.6	99	(111)	
DE-4-270-16-2012	DE-4-278	1	113	61	106	3.9	114	3.6	113	3.4	98	(114)	
DE-4-270-17-2012	DE-4-278	1	96	61	101	3	89	3.4	89	3.6	89	(104)	
DE-4-270-18-2012	DE-4-278	1	105	62	105	3.5	103	3.6	102	3.5	94	(109)	
DE-4-270-36-2012	DE-4-278	1	105	61	103	3.6	103	3.5	102	3.4	92	(110)	
DE-4-270-37-2012	DE-4-278	1	102	62	105	3.1	98	3.7	98	3.7	96	(105)	
DE-4-270-42-2012	DE-4-278	1	102	61	104	3	100	3.8	100	3.7	95	(104)	
DE-4-270-43-2012	DE-4-278	1	93	56	94	2.9	92	3.6	92	3.2	81	(103)	