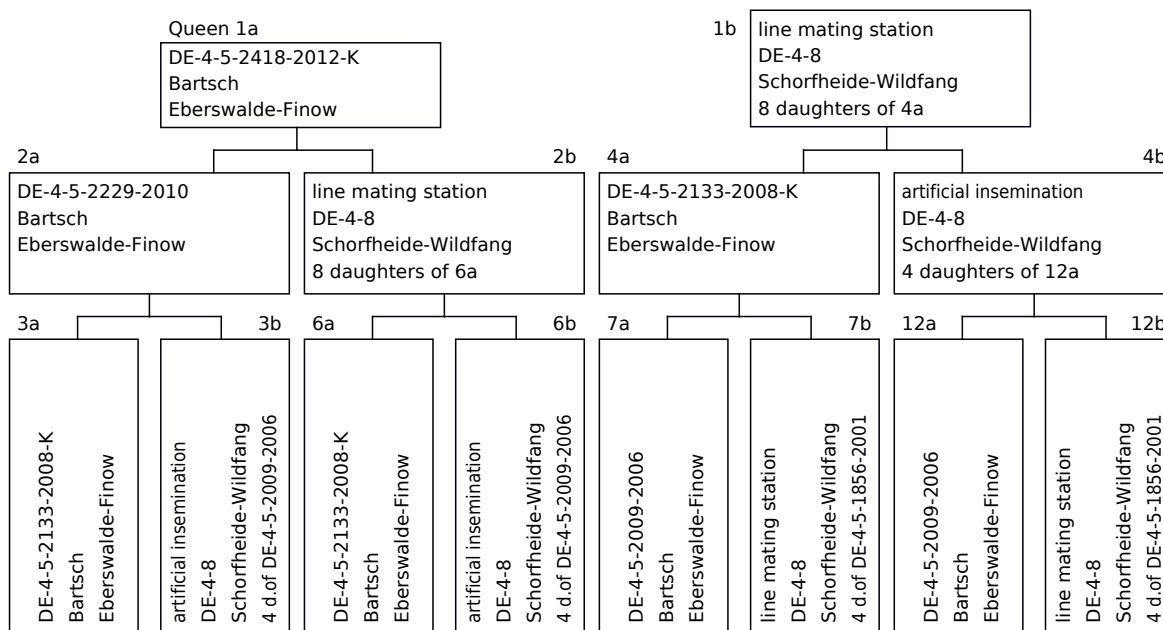


Tester of the queen: Bartsch, Klaus, 13227 Eberswalde-Finow, DE-4-5, Apiary 1
 Breeder of the queen: Bartsch, Klaus, 13227 Eberswalde-Finow, DE-4-5
1a Studbook number: **DE-4-5-2418-2012-K**







Race line: Sign: yellow 48
 Generation: Hatch date: 3.6.2012

Daughters of Queen: 35.7%
 Workers: 40.7%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	60.5	122.5	2	15	49.4	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	116				
Honey yield	-	120				0.26
Defensive behavior	4	113				0.38
Steadiness on comb	4	113				0.41
Swarming drive	4	121				0.23
Varroa	-	(105)				0.1
Performance index	-	0				
Robustness in winter	4	70% 100% 170%				
Development in Spring	3					
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%.

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-4-5-2418-2012-K

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Performance of the sisters

Amount of checked sisters: 15

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-4-5-2410-2012	DE-4-5	1	99	44.5	97	4	Behavior	3	97	3	97	(102)	
DE-4-5-2411-2012	DE-4-5	1	96	41.5	93	4	98	3	97	2	89	(101)	
DE-4-5-2415-2012	DE-4-5	1	84	46	94	3	78	2	78	3	86	(94)	
DE-4-5-2416-2012	DE-4-5	1	98	42	94	4	98	3	97	3	95	(101)	
DE-4-5-2417-2012	DE-4-5	1	88	52	102	3	83	3	84	2	84	(96)	
DE-4-5-2418-2012-K	DE-4-5	1	116	60.5	120	4	113	4	113	4	121	(105)	
DE-4-5-2450-2012	DE-4-5	1	102	57	113	3	96	4	97	4	111	(97)	
DE-4-5-2451-2012-K	DE-4-5	1	104	61	117	3	97	4	98	4	113	(98)	
DE-4-5-2452-2012	DE-4-5	1	90	52.9	103	3	83	3	84	3	90	(96)	
DE-4-5-2453-2012	DE-4-5	1	88	48.5	98	3	82	3	83	3	88	(95)	
DE-4-5-2454-2012	DE-4-5	1	100	49.5	102	4	99	3	99	2	92	(103)	
DE-4-5-2455-2012	DE-4-5	1	86	44	93	3	82	3	82	3	87	(94)	
DE-4-5-2456-2012	DE-4-5	1	87	45.5	95	3	82	3	82	3	87	(94)	
DE-4-5-2457-2012	DE-4-5	1	86	50	99	3	78	2	78	3	87	(95)	
DE-4-5-2458-2012	DE-4-5	1	87	46	95	3	82	3	83	3	87	(94)	