

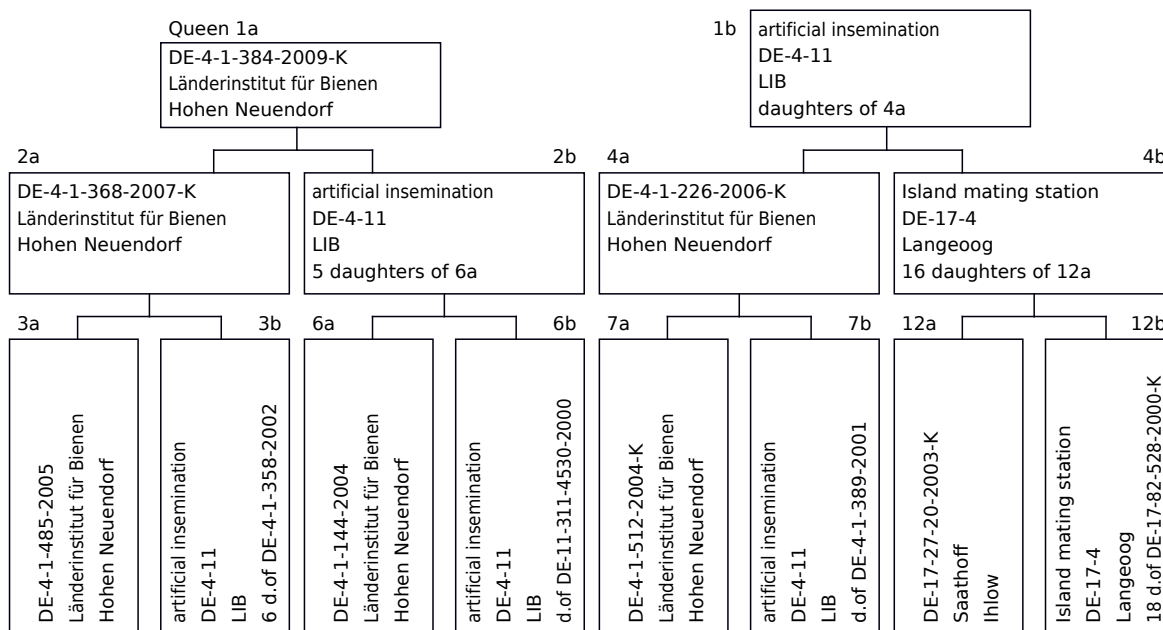
Breeding selection report

DE-4-1-384-2009-K

Tester of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1, Apiary 2
Breeder of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1
1a Studbook number: **DE-4-1-384-2009-K**

Race line: -33 Sign: green 84 Daughters of Queen: 2.9%
Generation: Hatch date: 16.06.2009 Workers: 1.8%

A. Pedigree



B. Own performance

3. Own performance	No. of the colony 36			comparable colonies at the apiary							
	kg	%	Ranking	number	Yield average kg						
Performance test year	43	99.2	15	26	43.4						
	Assessment*	Breeding values								Reliability	
Total breeding value ¹	-	112									
Honey yield	-	106								0.44	
Defensive behavior	3.70	116								0.64	
Steadiness on comb	3.60	116								0.67	
Swarming drive	2.60	98								0.43	
Varroa	-	110								0.53	
Performance index	-	0									
Robustness in winter	3	¹ In 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									
Development in Spring	3.50										
Colony strength	3										

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 Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

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Performance of the sisters

Amount of checked sisters: 12

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-4-1-370-2009	DE-4-1	1	100	46.2	97	3.7	110	3.6	110	2.8	90	87	
DE-4-1-371-2009-K	DE-4-1	1	103	54.2	105	3.7	116	3.4	118	4	114	86	
DE-4-1-376-2009	DE-4-1	1	97	49.1	98	3.6	114	3.4	115	1	93	87	
DE-4-1-377-2009	DE-4-1	1	92	48.3	97	3.5	109	3.3	112	3.7	106	75	
DE-4-1-378-2009	DE-4-1	1	99	50.5	100	3.4	109	3.3	109	4	107	89	
DE-4-1-389-2009	DE-4-1	1	86	51	97	3.2	100	2.8	102	1.4	88	78	
DE-4-1-379-2009	DE-4-1	2	111	42.4	106	3.8	120	3.6	119	1	96	105	
DE-4-1-381-2009	DE-4-1	2	99	44.3	107	3.6	113	3.5	114	4	115	80	
DE-4-1-382-2009	DE-4-1	2	117	50.8	116	3.9	127	3.8	128	3.3	112	102	
DE-4-1-383-2009	DE-4-1	2	96	51.6	111	3.5	107	3.3	110	3.2	105	80	
DE-4-1-384-2009-K	DE-4-1	2	112	43	106	3.7	116	3.6	116	2.6	98	110	
DE-4-1-385-2009	DE-4-1	2	103	43.3	104	3.4	104	3.3	104	3.8	103	101	