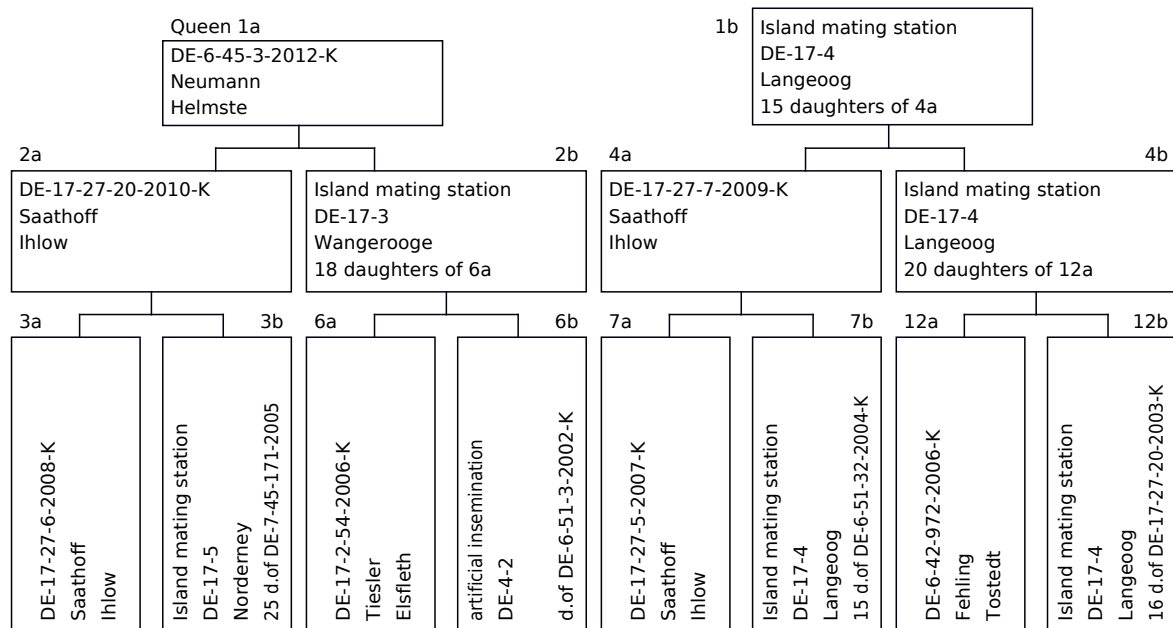


Tester of the queen: Fehling, Horst-Dieter, 21255 Tostedt, DE-6-42, Apiary 5
 Breeder of the queen: Neumann, Axel, Helmste, DE-6-45
1a Studbook number: **DE-6-45-3-2012-K**

Race line: -23 Sign: yellow 39 Daughters of Queen: 0.7%
 Generation: 0 Hatch date: 24.5.2012 Workers: 0.6%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 933			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	44	244.4	2	10	18
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	138			
Honey yield	-	126			0.42
Defensive behavior	3.80	129			0.62
Steadiness on comb	3.80	126			0.64
Swarming drive	4	122			0.43
Varroa	-	134			0.53
Performance index	-	0			
Robustness in winter	4		70%	100%	170%
Development in Spring	4				
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 Av

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

Breeding selection report DE-6-45-3-2012-K

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Performance of the sisters

Amount of checked sisters: 38

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-6-20-9-2012	DE-6-20	1	100		96		Behavior		drive		drive	100*	
DE-6-20-10-2012-K	DE-6-20	1	100		96		99	inspection			110	100*	
DE-6-20-13-2012	DE-6-20	1	114		120		108		108		119	107*	
DE-6-20-11-2012	DE-6-20	2	113		106		107		105		110	114*	
DE-6-20-12-2012	DE-6-20	2	111		111		106		105		114	108*	
DE-6-45-4-2012	DE-6-20	2	117		114		117		117		119	107*	
DE-6-45-2-2012	DE-6-42	5	105	19.5	109	3.5	109	3.5	111	4	119	91	
DE-6-45-3-2012-K	DE-6-42	5	138	44	126	3.8	129	3.8	126	4	122	134	
DE-17-2-101-2012	DE-6-45	11	102		118		100		102		118	90	
DE-17-2-106-2012-K	DE-6-45	11	127		111		114		111		113	134	
DE-17-2-107-2012	DE-6-45	11	118		97		113		110		110	123	
DE-17-2-109-2012	DE-6-45	11	111		110		119		120		124	93	
DE-17-2-112-2012	DE-6-45	11	115		109		107		106		97	121	
DE-17-2-102-2012	DE-6-45	12	113		114		99		98		101	121	
DE-17-2-114-2012	DE-6-45	12	113		102		122		122		126	97	
DE-17-2-108-2012	DE-17-2	1	118		119		114		114		120	110	
DE-17-2-110-2012	DE-17-2	1	122		101		112		109		109	130	
DE-17-2-111-2012-D	DE-17-2	1	122		121		114		114		119	118	
DE-17-2-113-2012	DE-17-2	1	120		101		109		105		107	130	
DE-17-2-185-2012	DE-17-2	1	109		113		113		115		122	94	
DE-17-2-100-2012	DE-17-2	2	100		104		103		104		103	96	
DE-17-2-105-2012	DE-17-2	2	132		132		120		119		124	126	
DE-17-27-28-2012	DE-17-27	1	123		110		116		114		115	124	
DE-17-27-29-2012	DE-17-27	1	109		105		102		101		109	110	
DE-17-27-30-2012	DE-17-27	1	123		111		116		114		116	123	
DE-17-27-31-2012-K	DE-17-27	1	137		129		129		128		125	130	
DE-17-27-32-2012-K	DE-17-27	1	143		136		130		128		126	139	
DE-17-27-33-2012	DE-17-27	1	114		107		106		104		111	116	
DE-17-27-34-2012	DE-17-27	1	120		110		116		115		116	116	
DE-17-27-35-2012	DE-17-27	1	126		113		122		120		118	123	
DE-17-27-36-2012	DE-17-27	1	112		104		102		100		107	119	
DE-17-27-37-2012	DE-17-27	1	116		109		111		110		114	115	
DE-17-27-38-2012	DE-17-27	1	121		114		122		122		121	112	
DE-6-45-15-2012-K	DE-17-208	1	123		119		121		121		125	112	
DE-6-45-16-2012	DE-17-208	1	130		122		131		131		128	116	
DE-6-45-17-2012	DE-17-208	1	114		113		114		115		124	102	
DE-6-45-18-2012	DE-17-208	1	101		107		102		103		117	90	
DE-6-45-19-2012	DE-17-208	1	123		116		121		120		124	114	

Only one Varroa trait was recorded