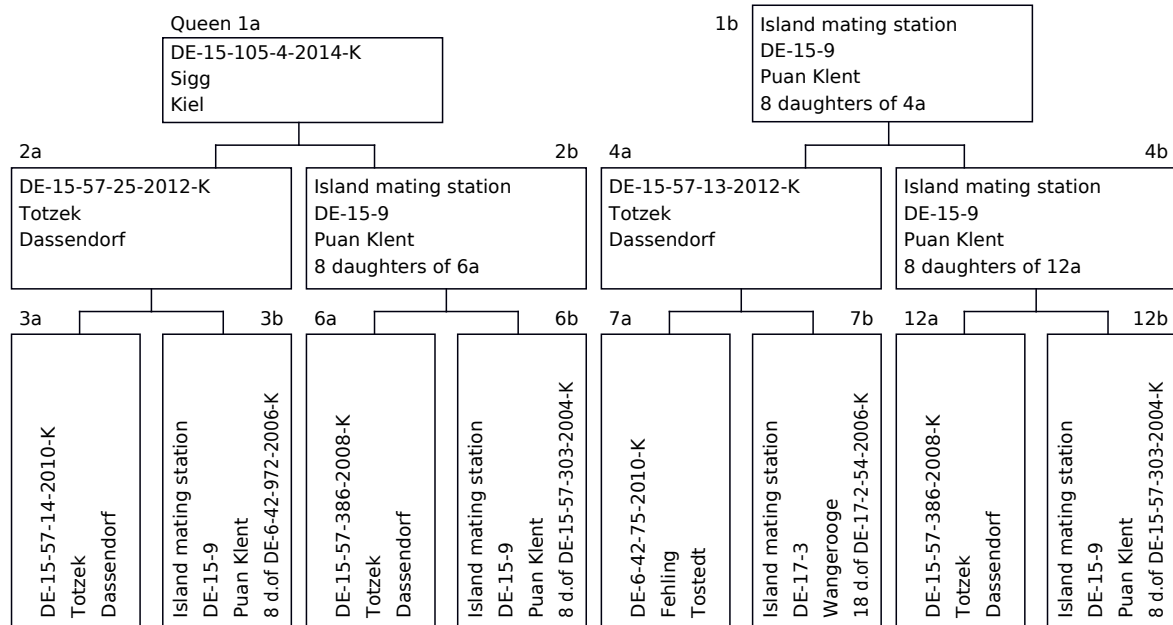


Tester of the queen: Sigg, Helga, Kiel, DE-15-105, Apiary 1
 Breeder of the queen: Sigg, Helga, Kiel, DE-15-105
1a Studbook number: **DE-15-105-4-2014-K**

Race line: -1 Sign: green 4
 Generation: Hatch date: 20.6.2014

Daughters of
 Queen: 4%
 Workers: 7.8%

A. Pedigree



B. Own performance

Performance test year	No. of the colony Volk 19			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	42	112.3	2	3	37.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	110			
Honey yield	-	110			0.31
Defensive behavior	3.90	107			0.47
Steadiness on comb	3.80	106			0.5
Swarming drive	4	102			0.32
Varroa	-	(110)			0.25
Performance index	-	0			
Robustness in winter	3.50		70%	100%	170%
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 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-15-105-4-2014-K

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Performance of the sisters

Amount of checked sisters: 33

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-15-57-1-2014	DE-15-57	1	104		99		Behavior		100		100	105	
DE-15-57-2-2014	DE-15-57	1	122		120		116		114		109	121	
DE-15-57-3-2014	DE-15-57	1	100		103		102		102		104	95	
DE-15-57-4-2014	DE-15-57	1	94		88		98		97		83	100	
DE-15-57-5-2014	DE-15-57	1	104		104		100		99		99	107	
DE-15-57-6-2014	DE-15-57	1	113		114		110		109		108	110	
DE-15-105-109-2014	DE-15-69	1	94		97		98		98		99	92	
DE-15-105-4-2014-K	DE-15-105	1	110	42	110	3.9	107	3.8	106	4	102	(110)	
DE-15-105-8-2014-D	DE-15-105	1	107	49	113	3.8	101	3.7	100	4	100	(109)	
DE-15-106-16-2014**	DE-15-106	3	108		(106)		(106)		(105)		(100)	(109)	
DE-15-106-17-2014-K	DE-15-106	3	118		119		116		115		108	(113)	
DE-15-110-56-2014	DE-15-106	3	103		91		106		104		96	(107)	
DE-15-110-59-2014-D	DE-15-106	3	91		(96)		83		82		88	(102)	
DE-15-155-48-2014	DE-15-106	3	118		113		118		117		107	(113)	
DE-15-155-88-2014	DE-15-106	3	111		110		109		109		103	(110)	
DE-15-114-1-2014-K	DE-15-114	1	115		113		115		115		106	(111)	
DE-15-114-13-2014	DE-15-114	1	107		106		105		104		100	(108)	
DE-15-114-15-2014	DE-15-114	1	102		93		104		102		96	(106)	
DE-15-114-39-2014-K	DE-15-114	1	107		112		101		100		100	(109)	
DE-15-121-87-2014	DE-15-121	2	93		92		93		93		85	101	
DE-15-121-88-2014	DE-15-121	2	108		106		109		108		98	108	
DE-15-121-89-2014	DE-15-121	2	107		107		105		105		107	104	
DE-15-121-90-2014	DE-15-121	2	92		93		94		93		85	98	
DE-15-121-91-2014-K	DE-15-121	2	128		118		127		125		116	122	
DE-15-121-92-2014	DE-15-121	2	112		107		109		107		104	114	
DE-15-158-1-2014	DE-15-158	1	111		116		110		110		117	101	
DE-15-158-2-2014	DE-15-158	1	136		126		133		130		123	128	
DE-15-158-3-2014	DE-15-158	1	107		107		106		105		98	107	
DE-15-158-4-2014	DE-15-158	1	111		112		108		107		105	110	
DE-15-158-5-2014	DE-15-158	1	98		95		102		102		97	97	
DE-15-158-6-2014	DE-15-158	1	101		96		98		97		91	109	
DE-15-158-7-2014	DE-15-158	1	105		104		103		103		96	107	
DE-15-158-8-2014	DE-15-158	1	95		90		91		89		77	111	

Colony without performance tests