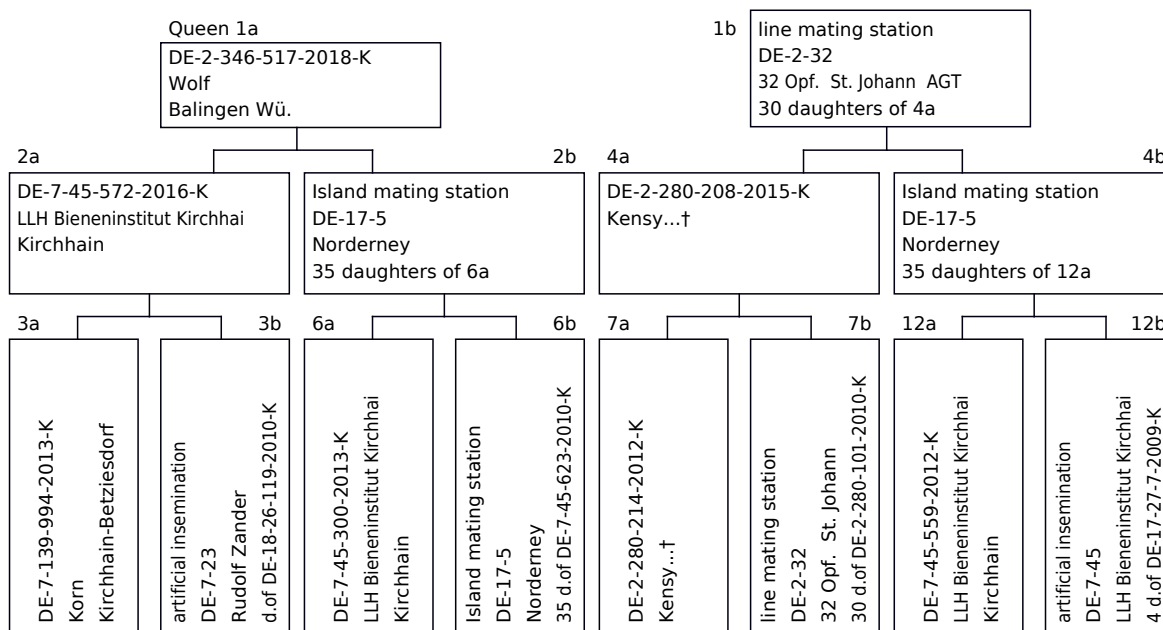


Tester of the queen: Wolf, Christian, 72336 Balingen Wü., DE-2-346, Apiary 1
 Breeder of the queen: Wolf, Christian, 72336 Balingen Wü., DE-2-346
1a Studbook number: **DE-2-346-517-2018-K**

Race line: Sign: red 41
 Generation: Hatch date: 02.06.2018

Daughters of Queen: 2.2%
 Workers: 1.7%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 17			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	77	126.5	2	7	60.9	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	105	■			
Honey yield	-	110	■			0.34
Defensive behavior	3.17	106	■			0.47
Steadiness on comb	3.33	107	■			0.47
Swarming drive	3	108	■			0.35
Varroa	-	95	■			0.24
Performance index	-	108	■			0.4
Robustness in winter	3	70% 100% 170%				
Development in Spring	3.50					
Colony strength	3.75					

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-2-346-517-2018-K

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Performance of the sisters

Amount of checked sisters: 42

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-2-346-212-2018	AT-99-247	1	110		110		Behavior		109		drive	107	107
DE-2-346-213-2018	AT-99-247	1	106		110		103	inspection	103		110	100	107
DE-2-256-6-2018	DE-2-256	1	113		109		110		110		112	107	111
DE-2-256-203-2018	DE-2-256	1	111		112		112		111		112	102	113
DE-2-256-204-2018	DE-2-256	1	115		114		112		111		112	108	113
DE-2-256-205-2018	DE-2-256	1	110		111		112		111		112	99	113
DE-2-256-207-2018-K	DE-2-256	1	110		109		112		111		112	100	112
DE-2-256-212-2018	DE-2-256	1	113		110		103		103		112	112	107
DE-2-314-50-2018	DE-2-256	1	113		107		110		107		111	110	109
DE-2-256-63-2018	DE-2-256	2	112		111		110		111		112	105	112
DE-2-256-65-2018-K	DE-2-256	2	107		108		102		104		110	102	107
DE-2-256-98-2018	DE-2-256	2	109		110		112		112		112	99	112
DE-2-256-219-2018	DE-2-256	2	112		104		112		112		111	107	111
DE-2-346-178-2018**	DE-2-313	2	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-346-180-2018	DE-2-313	2	109		105		112		111		110	101	110
DE-2-346-183-2018	DE-2-313	2	112		111		106		107		115	106	110
DE-2-314-201-2018-K	DE-2-314	2	113		109		110		109		111	109	111
DE-2-314-202-2018	DE-2-314	2	105		104		105		105		110	98	107
DE-2-314-203-2018	DE-2-314	2	111		105		108		108		111	107	109
DE-2-314-204-2018	DE-2-314	2	108		107		108		107		111	102	109
DE-2-314-205-2018	DE-2-314	2	108		108		106		106		111	102	108
DE-2-314-206-2018	DE-2-314	2	111		110		106		107		111	106	109
DE-2-314-207-2018**	DE-2-314	2	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-314-208-2018**	DE-2-314	2	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-314-209-2018-K	DE-2-314	2	112		113		109		109		112	105	112
DE-2-314-301-2018	DE-2-314	3	110		108		107		107		111	104*	109
DE-2-314-302-2018**	DE-2-314	3	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-314-303-2018**	DE-2-314	3	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-314-304-2018**	DE-2-314	3	110		(108)		(107)		(107)		(111)	(104)	109
DE-2-346-517-2018-K	DE-2-346	1	105	77	110	3.2	106	3.3	107	3	108	95	108
DE-2-346-520-2018	DE-2-346	1	113	65	109	3.2	108	3.5	109	3	109	110	109
DE-2-346-521-2018	DE-2-346	1	112	85	112	3.1	107	3.5	108	3	109	107	109
DE-2-346-522-2018-K	DE-2-346	1	109	67	109	3	105	3.2	105	4	113	103	109
DE-2-346-7-2018	DE-2-346	2	109	48	112	3.2	105	3.1	106	4	111	102*	110
DE-2-346-182-2018-K	DE-7-322	3	109		108		105		106		111	104	108
DE-2-346-250-2018-K	DE-14-142	1	112		109		110		110		113	106	112
DE-2-346-251-2018-K	DE-14-142	1	109		107		104		105		112	105	108
DE-2-346-252-2018-K	DE-14-142	1	113		110		110		109		113	107	111
DE-2-346-253-2018-K	DE-14-142	1	113		112		110		110		113	107	112
DE-2-346-254-2018	DE-14-142	1	106		106		104		104		108	100	106
DE-2-346-255-2018	DE-14-142	1	109		103		109		109		112	102	109
DE-2-346-256-2018	DE-14-142	1	107		108		105		105		107	102	106

Only one Varroa trait was recorded
Colony without performance tests