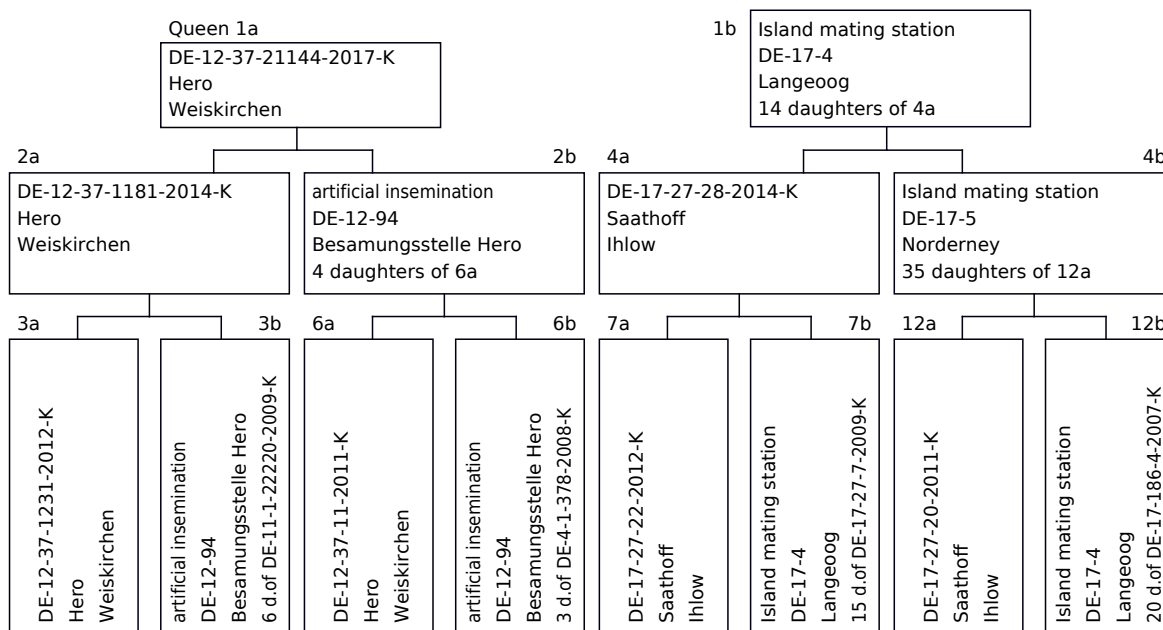


Tester of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37, Apiary 1
 Breeder of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37
1a Studbook number: **DE-12-37-21144-2017-K**

Race line: -C Sign: yellow 44 Daughters of Queen: 7.8%
 Generation: 4 Hatch date: 28.06.2017 Workers: 1.8%

A. Pedigree



B. Own performance

Performance test year	No. of the colony KK 1.3.			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	108	174.8	1	9	61.8
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	123			
Honey yield	-	136			0.41
Defensive behavior	3.90	115			0.61
Steadiness on comb	3.80	117			0.61
Swarming drive	4	111			0.38
Varroa	-	111			0.36
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-12-37-21144-2017-K

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Performance of the sisters

Amount of checked sisters: 26

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-12-37-21151-2017	DE-10-30	1	95		93		Behavior		100		100	97	93
DE-12-37-21152-2017-K	DE-10-30	1	125		127		117		Inspection 118		112	117	
DE-12-37-21142-2017	DE-12-37	1	90	48.0	95	3.5	90	3.5	95	3.5	87	92	90
DE-12-37-21143-2017	DE-12-37	1	98	58.0	97	3.6	92	3.6	96	4.0	96	101	94
DE-12-37-21144-2017-K	DE-12-37	1	123	108	136	3.9	115	3.8	117	4	111	111	
DE-12-37-21149-2017	DE-12-37	1	89	64.0	97	3.5	86	3.0	88	3.5	87	93	88
DE-12-37-21150-2017	DE-12-37	1	90	75.0	98	3.4	86	3.4	91	3.5	88	92	89
DE-12-37-21114-2017-K	DE-12-37	2	124	116	134	3.9	114	3.8	115	4	106	116	
DE-12-37-21115-2017	DE-12-37	2	94	93.0	99	3.2	89	3.2	92	4.0	92	97	91
DE-12-37-21116-2017	DE-12-37	2	94	96.0	99	3.4	91	3.5	94	4.0	93	95	93
DE-12-37-21117-2017	DE-12-37	2	93	94.0	99	3.5	92	3.6	95	4.0	93	93	94
DE-12-37-21118-2017	DE-12-37	2	89	87.0	98	2.0	82	2.5	85	4.0	89	95	86
DE-12-37-21119-2017	DE-12-37	2	94	83.0	98	3.5	92	3.6	96	4.0	91	95	93
DE-12-37-21120-2017-K	DE-12-37	2	115	72	101	4	120	3.9	122	4	103	110	
DE-12-37-21122-2017	DE-12-37	2	98	115.0	102	3.8	93	3.8	96	4.0	96	99	96
DE-12-37-21129-2017	DE-12-37	2	90	45.0	92	3.0	91	3.3	95	4.0	85	93	89
DE-12-40-21012-2017	DE-12-40	1	109		109		104		106		100	110	
DE-12-40-21013-2017	DE-12-40	1	92		99		89		93		93	92	92
DE-12-40-21015-2017	DE-12-40	1	127		121		121		123		112	120	
DE-12-40-21020-2017	DE-12-40	1	101		108		97		99		94	104	
DE-12-40-21021-2017	DE-12-40	1	90		96		87		90		87	93	88
DE-12-40-21023-2017	DE-12-40	1	100		101		98		102		100	98*	100
DE-12-40-21024-2017	DE-12-40	1	93		96		90		93		87	98	90
DE-12-41-8-2017-K	DE-12-41	2	131		127		121		123		123	118	
DE-12-41-10-2017	DE-12-41	2	116		116		112		114		100	113	
DE-12-41-11-2017	DE-12-41	2	94		99		93		97		90	94	94

Only one Varroa trait was recorded