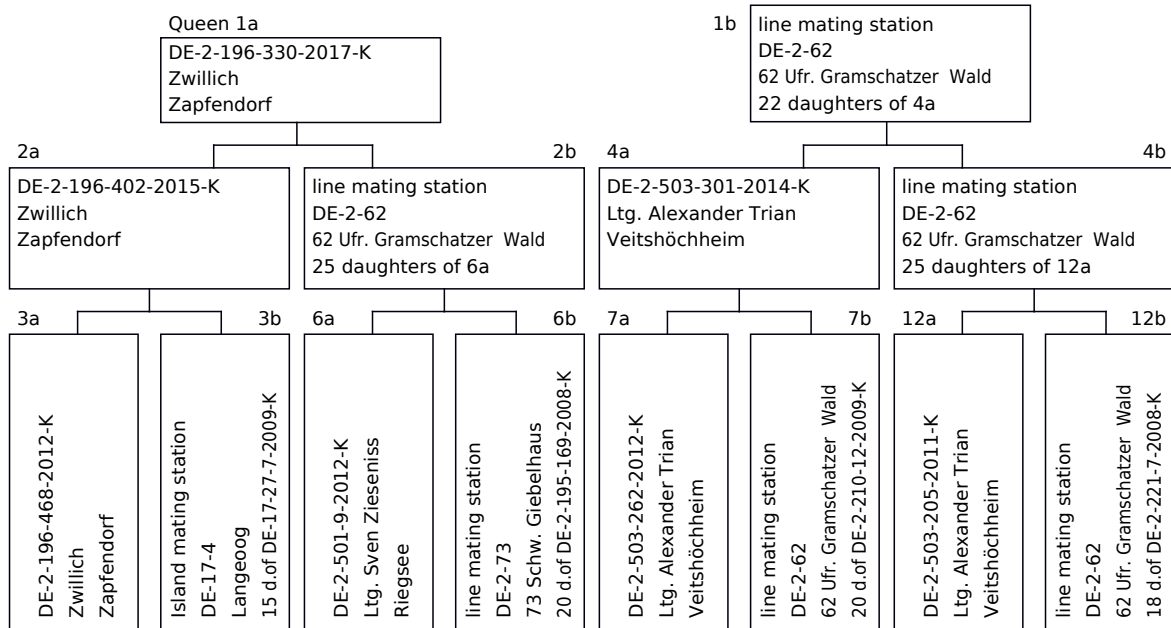


Tester of the queen: Zwillich, Werner, 96199 Zapfendorf, DE-2-196, Apiary 1
 Breeder of the queen: Zwillich, Werner, 96199 Zapfendorf, DE-2-196
1a Studbook number: **DE-2-196-330-2017-K**

Race line: Sign: yellow Daughters of Queen: 2.3%
 Generation: Hatch date: Workers: 2.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	87	123.5	2	22	70.5	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	105	■			
Honey yield	-	118	■			0.35
Defensive behavior	4	113	■			0.48
Steadiness on comb	3.50	111	■			0.48
Swarming drive	4	99	■			0.35
Varroa	-	(91)	■			0.08
Performance index	-	111	■			0.4
Robustness in winter			70%	100%	170%	
Development in Spring						
Colony strength						

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-2-196-330-2017-K

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Performance of the sisters

Amount of checked sisters: 30

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-2-196-29-2018	DE-2-196	1	98	44	107	3	107	2.5	107	4	107	(91)	101
DE-2-196-161-2018	DE-2-196	1	94	53	109	2.5	93	2	92	3	93	(91)	96
DE-2-196-181-2018	DE-2-196	1	99	54	111	3	103	3	104	3	94	(91)	103
DE-2-196-221-2018	DE-2-196	1	104	62	115	3.5	110	3.5	111	4	100	(91)	110
DE-2-196-233-2018	DE-2-196	1	94	41.5	105	2.5	94	2	92	3	93	(91)	95
DE-2-196-256-2018	DE-2-196	1	97	51	109	3	100	2.5	99	3	93	(91)	100
DE-2-196-141-2018	DE-4-305	3	97		110		100		99		92	(91)	100
DE-2-196-142-2018	DE-4-305	3	101		114		103		104		101	(91)	105
DE-2-196-3-2017	DE-2-196	1	90	85	110	4	92	3.5	92	4	92	(84)	96
DE-2-196-76-2017	DE-2-196	1	89	79	108	3.5	89	3	90	4	91	(84)	93
DE-2-196-79-2017	DE-2-196	1	88	74	106	3.5	90	3	90	4	90	(84)	93
DE-2-196-97-2017	DE-2-196	1	87	67	104	3	87	2.5	88	4	89	(84)	90
DE-2-196-208-2017	DE-2-196	1	87	72	105	3	88	3	90	3	85	(84)	90
DE-2-196-231-2017	DE-2-196	1	87	67	104	3	88	3	90	4	89	(84)	91
DE-2-196-240-2017-K	DE-2-196	1	107	89	120	4	116	4	116	4	99	(91)	114
DE-2-196-305-2017	DE-2-196	1	85	56	100	2.5	88	3	91	3	82	(84)	88
DE-2-196-311-2017	DE-2-196	1	89	74	106	3.5	91	3.5	93	4	90	(84)	94
DE-2-196-312-2017	DE-2-196	1	84	53	99	2.5	86	2	86	3	81	(84)	86
DE-2-196-322-2017	DE-2-196	1	86	59	102	2.5	87	3	90	4	87	(84)	90
DE-2-196-330-2017-K	DE-2-196	1	105	87	118	4	113	3.5	111	4	99	(91)	111
DE-2-196-388-2017	DE-2-196	1	87	64	103	3	89	3	91	4	88	(84)	91
DE-2-196-389-2017	DE-2-196	1	86	60	102	2.5	86	2.5	88	4	87	(84)	89
DE-2-196-407-2017	DE-2-196	1	88	78	108	3	87	3	89	4	91	(84)	92
DE-2-196-414-2017	DE-2-196	1	87	69	104	3	88	3	90	3	84	(84)	90
DE-2-196-415-2017	DE-2-196	1	88	70	105	3	89	3.5	92	4	90	(84)	93
DE-2-196-416-2017	DE-2-196	1	83	60	101	2	84	2.5	87	2	77	(84)	85
DE-2-196-418-2017	DE-2-196	1	88	73	106	3.5	90	3	91	4	90	(84)	93
DE-2-196-470-2017	DE-2-196	1	90	84	110	3.5	91	4	94	4	92	(84)	96
DE-2-196-472-2017	DE-2-196	1	87	64	103	3	89	3	91	4	88	(84)	91
DE-2-196-478-2017	DE-2-196	1	83	66	103	2.5	84	2	85	2	78	(84)	85