

Supplementary File S1

Supplementary information to “Functionality of oak log wood mould boxes as artificial habitat for the hermit beetle (*Osmoderma eremita*)” by Sara Linde1, Linda Bellucci Feijen, and Johan Watz.

Table S1. Correlation matrix of the variables analyzed in the GLM, Bold font indicate statistical significance ($\alpha = 0.05$).

	(n=26)	Mould pH	Moisture score	Mould volume
Outer diameter		$r=-0.07$; $p=0.74$	$r=-0.01$; $p=0.97$	$r=0.60$; $p<0.01$
Mould pH			$r=-0.17$; $p=0.40$	$r=-0.05$; $p=0.80$
Moisture score				$r=-0.22$; $p=0.29$

Table S2. Data analyzed to support the findings in the study.

Box_ID	Site	Box_age_years	Outer_diameter_cm	Outer_height_cm	Inner_width_1_cm	Inner_width_2_cm	Inner_depth_cm	Mould_pH	Moisture_score	Mould_volume	L1	L2	L3	Tot_individuals	Transplanted
1	1	5	65	100	31	33	66	6	3	40	54	4	23	81	1
3	1	5	65	140	36	34	72	6.8	5	45	0	0	0	0	0
4	1	5	73	170	36	49	85	6.9	6	65	0	0	3	3	0
5	1	5	59	98	25	29	56	6.8	8	15	0	0	1	1	1
6	1	5	62	132	34	33	70	6.7	2	15	0	0	1	1	1
7	1	5	65	140	32	36	70	6.8	1	40	0	0	0	0	1
8	1	5	66	102	37	37	59	6.8	4	35	0	0	1	1	0
9	1	5	62	86	37	32	86	6.1	7	50	0	0	0	0	1
10	1	5	73	93	39	40	56	6.6	8	45	0	0	22	22	0
11	1	5	34	100	20	25	41	6.9	2	8	0	0	0	0	0
12	2	3	49	85	28	25	63	6.6	10	15	2	13	3	18	0
13	2	3	50	149	19	21	72	6.6	9	27	0	1	0	1	0
14	2	3	48	155	22	24	75	6.5	7	18	0	0	2	2	1
15	2	3	58	100	26	23	86	6.8	10	17	1	22	3	26	0
16	2	3	56	104	28	29	89	6.9	7	18	7	51	14	72	0
17	2	3	50	128	24	22	85	6.5	8	15	18	0	1	19	0
18	2	3	50	135	23	27	81	6.5	7	22	4	10	0	14	0
19	2	3	50	95	25	25	82	6.6	5	28	3	2	0	5	0
20	2	3	52	127	24	25	76	6.3	6	19	5	3	0	8	0
21	3	3	56	150	25	30	77	6.8	5	16	0	0	0	0	0
22	3	3	56	180	29	25	85	6.9	2	40	0	12	2	14	0
23	3	3	50	165	24	22	86	6.9	6	30	7	2	9	18	0
24	3	3	50	160	26	25	85	6.5	5	23	13	4	1	18	0
25	3	3	54	175	26	27	82	6.7	5	20	22	2	13	37	1
26	3	3	47	195	24	22	62	6.8	4	16	0	0	1	1	0
27	3	3	49	178	28	26	78	6.8	3	60	23	26	13	62	1

Table S3. Number of individuals per taxa other than hermit beetles found in oak log wood mould boxes.

Taxon	Scientific name	Number
Stone centipedes (family)	<i>Lithobiidae</i>	117
Isopods (order)	<i>Isopoda</i>	96
Darkling beetles (subfamily)	<i>Tenenbrioninae</i>	96
Myriapods (subphylum)	<i>Myriapoda</i>	41
Rusty click beetle (species)	<i>Elater ferrugineus</i>	12
Leopard slug (species)	<i>Limax maximus</i>	10
Earthworms (family)	<i>Lumbricidae</i>	7
Stiletto flies (family)	<i>Therevidae</i>	6
Flat moths (family)	<i>Depressariidae</i>	4
Snails (order)	<i>Stylommatophora</i>	4
Crane flies (superfamily)	<i>Tipuloidea</i>	3
Earwigs (order)	<i>Dermaptera</i>	2
Spanish slug (species)	<i>Arion vulgaris</i>	2
Clown beetles (family)	<i>Histeridae</i>	1
Slant-streaked oak leafminer moth (species)	<i>Acrocercops brongniardellus</i>	1
Rove beetles (family)	<i>Staphylinidae</i>	1
Wood ants (subgenus)	<i>Formica</i>	not quantified
Black ant (species)	<i>Formica fusca</i>	not quantified
Red wood ant (species)	<i>Formica rufa</i>	not quantified
Arachnids (class)	<i>Arachnida</i>	not quantified

