

Digital supplementary material to

VAN ELST, T. & GADAU, J. 2018: Temporal variation in social structure and worker reproduction in the temporary social parasite *Lasius fuliginosus* (Hymenoptera: Formicidae). – Myrmecological News 27: 75-85.

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Tab. S1: Sampling locations and dates of genotyped *Lasius fuliginosus* specimens (workers and males).

Colony	Latitude	Longitude	Sampling date	
			Workers	Males
Lfu 1	51° 59.03' N	7° 34.94' E	05.VI.2016	
Lfu 2	51° 59.14' N	7° 34.82' E	05.VI.2016	
Lfu 3	51° 56.52' N	7° 39.53' E	26.VI.2016	
Lfu 4	51° 59.67' N	7° 42.66' E	02.VII.2016	
Lfu 5	51° 59.13' N	7° 40.89' E	02.VII.2016	
Lfu 6	51° 59.24' N	7° 40.76' E	02.VII.2016 / 04.V.2017	02.VII.2016
Lfu 7	51° 58.33' N	7° 40.35' E	03.VII.2016	
Lfu 8	51° 58.11' N	7° 40.64' E	03.VII.2016 / 13.IV.2017	03.VII.2016
Lfu 9	51° 54.74' N	7° 39.96' E	09.VII.2016	09.VII.2016
Lfu 10	51° 53.10' N	7° 39.43' E	11.VII.2016	11.VII.2016
Lfu 11	51° 52.97' N	7° 39.69' E	11.VII.2016	11.VII.2016
Lfu 12	51° 53.39' N	7° 39.73' E	11.VII.2016	
Lfu 13	51° 53.33' N	7° 39.45' E	29.III.2017	
Lfu 14	51° 57.67' N	7° 43.80' E	09.IV.2017	23.VI.2017
Lfu 15	51° 55.77' N	7° 42.62' E	10.IV.2017	
Lfu 16	51° 55.05' N	7° 44.25' E	10.IV.2017	06.V.2017
Lfu 17	51° 54.88' N	7° 44.35' E	10.IV.2017	23.VI.2017
Lfu 18	51° 58.90' N	7° 44.19' E	13.IV.2017	
Lfu 19	51° 59.91' N	7° 44.89' E	13.IV.2017	23.VI.2017
Lfu 20	51° 59.99' N	7° 45.09' E	13.IV.2017	
Lfu 21	51° 59.92' N	7° 45.26' E	28.IV.2017	23.VI.2017
Lfu 22	51° 58.85' N	7° 43.83' E	30.IV.2017	
Lfu 23	52° 00.08' N	7° 45.07' E	30.IV.2017	
Lfu 24	51° 56.13' N	7° 37.72' E	03.V.2017	
Lfu 25	51° 59.97' N	7° 45.02' E	03.V.2017	
Lfu 26	52° 00.21' N	7° 43.08' E	03.V.2017	
Lfu 27	51° 59.37' N	7° 43.94' E	03.V.2017	
Lfu 28	51° 59.36' N	7° 43.84' E	03.V.2017	
Lfu 29	51° 58.94' N	7° 41.93' E	04.V.2017	04.V.2017
Lfu 30	51° 58.88' N	7° 40.74' E	04.V.2017	
Lfu 31	51° 58.97' N	7° 40.56' E	04.V.2017	
Lfu 32	51° 59.24' N	7° 40.92' E	04.V.2017	
Lfu 33	51° 54.83' N	7° 43.94' E	06.V.2017	23.VI.2017

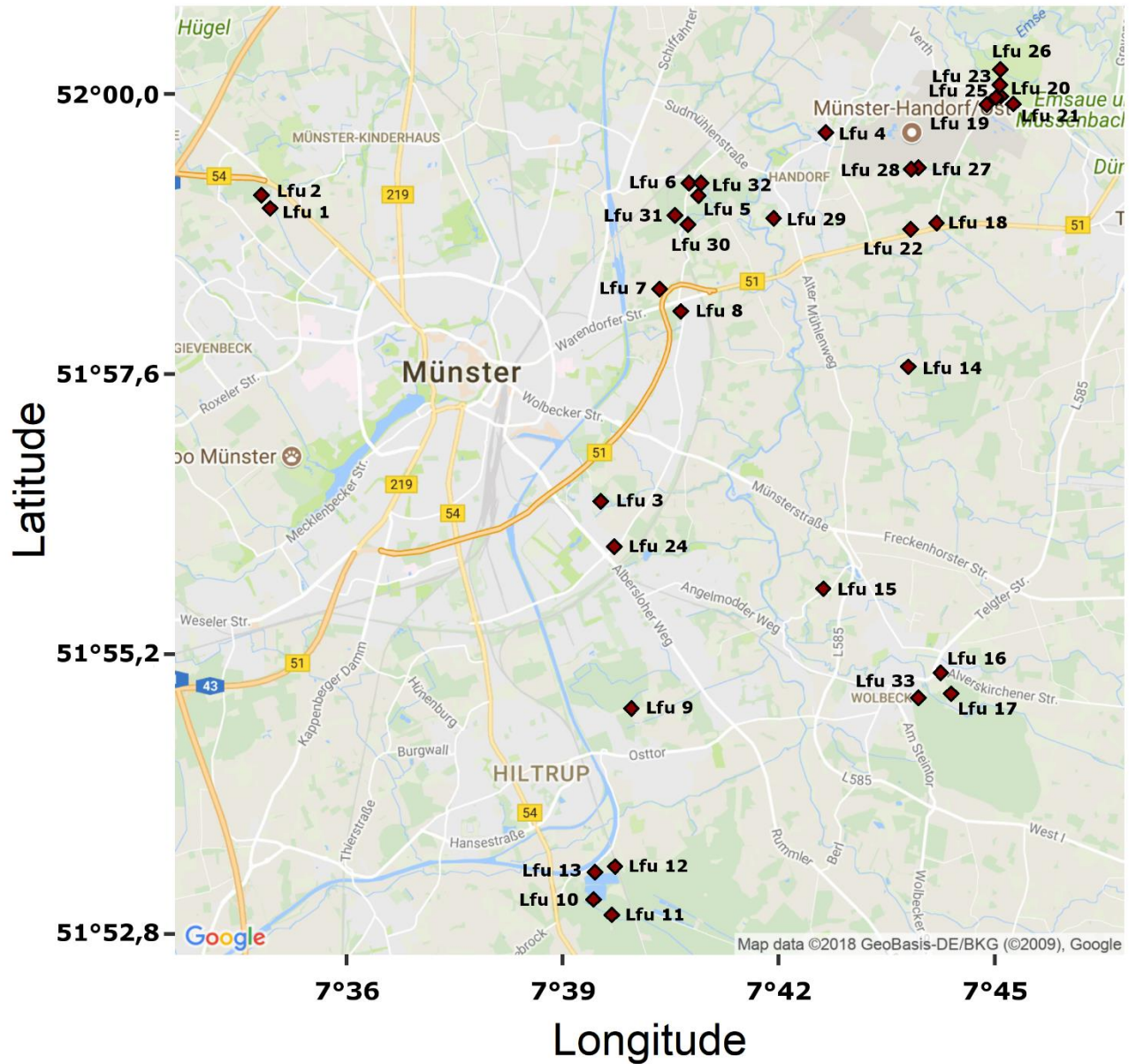


Fig. S1: Geographic distribution of *Lasius fuliginosus* colonies in the study population in Münster, Germany. The figure was created with the ggmap package for R (KAHLE & HADLEY 2013).

Tab. S2: Allele numbers and frequencies at the four microsatellite loci *Lasius fuliginosus* specimens were genotyped at. Estimates of allele frequency were obtained by taking the arithmetic mean of ten reduced datasets each of which contained one random worker of each of 33 colonies.

Locus	Lf 03		Lf 04		Lf 05		Lf 06	
No. Alleles	13		15		15		12	
	Allele	Frequency	Allele	Frequency	Allele	Frequency	Allele	Frequency
	113	0.008	138	0.023	207	0.032	214	0.014
	115	0.006	140	0.005	209	0.036	222	0.021
	117	0.046	144	0.005	211	0.041	224	0.225
	119	0.408	146	0.017	213	0.1	226	0.106
	121	0.059	148	0.129	215	0.053	228	0.165
	123	0.025	150	0.347	217	0.102	230	0.196
	127	0.026	152	0.047	219	0.045	232	0.109
	129	0.014	154	0.204	221	0.059	234	0.079
	131	0.146	156	0.059	223	0.109	236	0.036
	133	0.137	158	0.011	225	0.132	238	0.031
	135	0.098	160	0.006	227	0.074	240	0.015
	137	0.022	162	0.009	229	0.073	244	0.003
	139	0.006	164	0.076	231	0.027		
			166	0.033	233	0.105		
			168	0.031	235	0.012		

Tab. S3: Queen (Q), mate (M) and worker (W) genotypes of sampled specimens at the loci Lf 03 to Lf 06. Queen and mate genotypes were inferred from worker genotypes via the narrow deduction method of Matesoft v1.0 (MOILANEN & al. 2004). In polygynous and polyandrous colonies, the queen or mate genotype each worker is supporting is displayed. In case queens with different genotypes were possible to explain worker genotypes, the probability of each queen is given in brackets (based on allele frequencies in the colony and population). M01 refers to the mating partner of Q01 and M02 to Q02 and so on. Mating partners of multiply mated queens are given as M01.1 and M01.2 (two mating partners for a queen Q01). Question marks indicate missing data.

Colony	Specimen	Lf 03	Lf 04	Lf 05	Lf 06
Lfu 1	Q01	119/135	152/154	221/223	224/228
	Q02	119/133	150/168	217/229	224/228
	Q03	119/135	150/154	227/229	224/230
	M01	119	150	209	228
	M02	135	156	227	230
	M03	119	154	229	234
	W01 (Q01)	119/119	150/154	209/223	228/228
	W02 (Q02)	119/135	150/156	227/229	224/230
	W03 (Q02)	119/135	150/156	227/229	224/230
	W04 (Q03)	119/135	154/154	227/229	230/234
	W05 (Q02)	133/135	156/168	217/227	228/230
	W06 (Q01)	119/119	150/154	209/223	228/228
	W07 (Q02)	133/135	156/168	217/227	228/230

	W08 (Q01)	119/119	150/152	209/221	224/228
	W09 (Q01)	119/119	150/152	209/221	224/228
	W10 (Q01)	119/135	150/154	209/223	228/228
	W11 (Q02)	133/135	150/156	227/229	224/230
	W12 (Q02)	133/135	150/156	227/229	224/230
	W13 (Q02)	133/135	150/156	227/229	224/230
	W14 (Q02)	133/135	156/168	217/227	228/230
	W15 (Q02)	119/135	156/168	217/227	228/230
	W16 (Q01)	119/119	150/154	209/223	228/228
	W17 (Q01)	119/119	150/154	209/223	228/228
	W18 (Q03)	119/119	150/154	227/229	230/234
	W19 (Q02)	119/135	150/156	227/229	224/230
	W20 (Q02)	119/135	156/168	227/229	224/230
	W21 (Q01)	119/119	150/152	209/221	224/228
	W22 (Q02)	119/135	150/156	227/229	224/230
	W23 (Q01)	119/119	150/152	209/223	228/228
	W24 (Q03)	119/119	150/154	227/229	230/234
	W25 (Q03)	119/135	154/154	229/229	224/234
	W26 (Q03)	119/119	150/154	229/229	224/234
	W27 (Q01)	119/119	150/152	209/223	228/228
	W28 (Q03)	119/119	154/154	229/229	224/234
	W29 (Q03)	??	150/154	227/229	230/234
	W30 (Q03)	119/119	150/154	229/229	224/234
	W31 (Q03)	119/119	150/154	229/229	224/234
	W32 (Q03)	119/119	150/154	227/229	224/234
	W33 (Q03)	119/135	150/154	227/229	224/234
	W34 (Q03)	119/135	150/154	227/229	224/234
	W35 (Q03)	119/119	150/154	227/229	230/234
	W36 (Q03)	119/119	154/154	227/229	224/234
	W37 (Q03)	119/119	154/154	227/229	230/234
	W38 (Q01)	119/119	150/152	209/223	228/228
	W39 (Q03)	119/135	150/154	227/229	230/234
	W40 (Q03)	119/135	150/154	227/229	230/234
	W41 (Q01)	119/119	150/152	209/223	228/228
	W42 (Q03)	119/135	154/154	227/229	230/234
Lfu 2	Q01 (0.63)	119/131	150/150	209/215	224/228
	Q02 (0.37)	119/131	154/154	209/215	224/228
	M01	133	154	217	234
	M02	133	150	217	234
	W01	119/133	150/154	215/217	228/234
	W02	131/133	150/154	209/217	224/234
	W03	119/133	150/154	209/217	224/234
	W04	131/133	150/154	209/217	224/234
	W05	131/133	150/154	215/217	228/234
	W06	131/133	150/154	209/217	224/234
	W07	119/133	150/154	215/217	228/234
	W08	131/133	150/154	215/217	228/234

	W09	119/133	150/154	209/217	224/234
	W10	119/133	150/154	209/217	224/234
	W11	119/133	150/154	215/217	228/234
	W12	119/133	150/154	215/217	228/234
	W13	119/133	150/154	215/217	228/234
	W14	131/133	150/154	209/217	224/234
	W15	119/133	150/154	215/217	228/234
	W16	119/133	150/154	215/217	228/234
	W17	131/133	150/154	215/217	228/234
	W18	119/133	150/154	215/217	228/234
	W19	119/133	150/154	215/217	228/234
	W20	131/133	150/154	209/217	224/234
Lfu 3	Q01	119/133	150/164	217/219	228/230
	M01	119	150	219	224
	W01	119/133	150/150	217/219	224/228
	W02	119/119	150/150	219/219	224/230
	W03	119/119	150/164	217/219	224/228
	W04	119/133	150/164	219/219	224/230
	W05	119/133	150/164	219/219	224/230
	W06	119/119	150/164	217/219	224/228
	W07	119/133	150/164	217/219	224/228
	W08	119/133	150/164	217/219	224/228
	W09	119/119	150/164	219/219	224/230
	W10	119/119	150/164	219/219	224/230
	W11	119/133	150/164	217/219	224/228
	W12	119/133	150/164	217/219	224/228
	W13	119/119	150/150	217/219	224/228
	W14	119/133	150/150	219/219	224/230
	W15	119/119	150/164	217/219	224/228
	W16	119/119	150/150	219/219	224/230
	W17	119/119	150/164	217/219	224/228
	W18	119/119	150/164	219/219	224/230
	W19	119/119	150/164	217/219	224/228
	W20	119/133	150/164	217/219	224/228
Lfu 4	Q01	121/131	150/154	221/235	224/226
	M01	119	150	213	230
	W01	119/121	150/154	213/235	226/230
	W02	119/131	150/150	213/221	224/230
	W03	119/121	150/150	213/235	226/230
	W04	119/121	150/154	213/221	224/230
	W05	119/121	150/154	213/221	224/230
	W06	119/131	150/150	213/235	226/230
	W07	119/121	150/154	213/221	224/230
	W08	119/121	150/150	213/221	224/230
	W09	119/131	150/150	213/235	226/230
	W10	119/131	150/154	213/221	224/230
	W11	119/131	150/154	213/221	224/230

	W12	119/131	150/154	213/235	226/230
	W13	119/121	150/150	213/221	224/230
	W14	119/131	150/150	213/221	224/230
	W15	119/131	150/150	213/221	224/230
	W16	119/131	150/150	213/235	226/230
	W17	119/121	150/150	213/221	224/230
	W18	119/131	150/154	213/235	226/230
	W19	119/121	150/154	213/235	226/230
	W20	119/131	150/150	213/221	224/230
	W19	119/121	150/154	213/235	226/230
	W20	119/131	150/150	213/221	224/230
Lfu 5	Q01 (0.74)	119/119	148/166	221/229	224/232
	Q02 (0.26)	131/131	148/166	221/229	224/232
	M01	131	150	225	226
	M02	119	150	225	226
	W01	119/131	150/166	225/229	224/226
	W02	119/131	150/166	225/229	224/226
	W03	119/131	150/166	221/225	226/232
	W04	119/131	150/166	225/229	224/226
	W05	119/131	150/166	225/229	224/226
	W06	119/131	148/150	225/229	224/226
	W07	119/131	150/166	225/229	224/226
	W08	119/131	148/150	225/229	224/226
	W09	119/131	150/166	221/225	226/232
	W10	119/131	150/166	221/225	226/232
	W11	119/131	150/166	221/225	226/232
	W12	119/131	148/150	225/229	224/226
	W13	119/131	148/150	225/229	224/226
	W14	119/131	150/166	225/229	224/226
	W15	119/131	150/166	225/229	224/226
	W16	119/131	148/150	221/225	226/232
	W17	119/131	150/166	221/225	226/232
	W18	119/131	148/150	221/225	226/232
	W19	119/131	150/166	221/225	226/232
	W20	119/131	148/150	225/229	224/226
Lfu 6	Q01 (0.51)	119/119	148/148	221/227	224/232
	Q02 (0.24)	119/119	156/156	221/227	224/232
	Q03 (0.17)	133/133	148/148	221/227	224/232
	Q04 (0.08)	133/133	156/156	221/227	224/232
	M01	133	156	219	238
	M02	133	148	219	238
	M03	119	156	219	238
	M04	119	148	219	238
	W01	119/133	148/156	219/227	224/238
	W02	119/133	148/156	219/227	224/238
	W03	119/133	148/156	219/227	224/238
	W04	119/133	148/156	219/227	224/238

	W05	119/133	148/156	219/227	224/238
	W06	119/133	148/156	219/227	224/238
	W07	119/133	148/156	219/227	224/238
	W08	119/133	148/156	219/221	232/238
	W09	119/133	148/156	219/227	224/238
	W10	119/133	148/156	219/227	224/238
	W11	119/133	148/156	219/227	224/238
	W12	119/133	148/156	219/221	232/238
	W13	119/133	148/156	219/227	224/238
	W14	119/133	148/156	219/221	232/238
	W15	119/133	148/156	219/227	224/238
	W16	119/133	148/156	219/227	224/238
	W17	119/133	148/156	219/227	224/238
	W18	119/133	148/156	219/221	232/238
Lfu 7	Q01	121/133	150/154	211/221	224/230
	M01	119	148	221	226
	W01	119/121	148/150	221/221	226/230
	W02	119/121	148/154	211/221	224/226
	W03	119/121	148/154	211/221	224/226
	W04	119/121	148/154	211/221	224/226
	W05	119/121	148/154	221/221	226/230
	W06	119/133	148/150	211/221	224/226
	W07	119/133	148/150	211/221	224/226
	W08	119/133	148/150	211/221	224/226
	W09	119/121	148/154	221/221	226/230
	W10	119/121	148/150	211/221	224/226
	W11	119/121	148/150	221/221	226/230
	W12	119/133	148/150	221/221	226/230
	W13	119/133	148/150	221/221	226/230
	W14	119/121	148/150	221/221	226/230
	W15	119/121	148/150	221/221	226/230
	W16	119/133	148/154	221/221	226/230
	W17	119/121	148/154	221/221	226/230
	W18	119/133	148/154	221/221	226/230
	W19	119/121	148/150	211/221	224/226
Lfu 8	Q01	119/121	148/156	221/225	224/232
	M01	119	150	223	224
	W01	119/119	148/150	223/225	224/224
	W02	119/119	150/156	221/223	224/232
	W03	119/119	150/156	221/223	224/232
	W04	119/121	150/156	221/223	224/232
	W05	119/121	150/156	221/223	224/232
	W06	119/121	148/150	223/225	224/224
	W07	119/121	150/156	223/225	224/224
	W08	119/121	148/150	221/223	224/232
	W09	119/119	150/156	223/225	224/224
	W10	119/121	148/150	223/225	224/224



	W11	119/119	150/156	223/225	224/224
	W12	119/121	150/156	221/223	224/232
	W13	119/119	148/150	223/225	224/224
	W14	119/119	150/156	223/225	224/224
	W15	119/119	150/156	221/223	224/232
	W16	119/119	150/156	223/225	224/224
	W17	119/119	150/156	223/225	224/224
	W18	119/121	150/156	221/223	224/232
	W19	119/121	150/156	223/225	224/224
	W20	119/121	150/156	223/225	224/224
Lfu 9	Q01 (0.34)	121/131	150/156	215/215	226/230
	Q02 (0.66)	121/131	150/156	233/233	226/230
	M01	119	154	233	228
	M02	119	154	215	228
	W01	119/131	154/156	215/233	228/230
	W02	119/131	150/154	215/233	226/228
	W03	119/121	154/156	215/233	226/228
	W04	119/131	150/154	215/233	228/230
	W05	119/121	150/154	215/233	228/230
	W06	119/131	150/154	215/233	228/230
	W07	119/131	150/154	215/233	226/228
	W08	119/121	154/156	215/233	228/230
	W09	119/121	154/156	215/233	226/228
	W10	119/131	154/156	215/233	226/228
	W11	119/121	154/156	215/233	228/230
	W12	119/121	154/156	215/233	226/228
	W13	119/121	150/154	215/233	228/230
	W14	119/131	150/154	215/233	226/228
	W15	119/131	150/154	215/233	226/228
	W16	119/131	154/156	215/233	228/230
	W17	119/131	150/154	215/233	228/230
	W18	119/131	154/156	215/233	228/230
	W19	119/131	154/156	215/233	226/228
Lfu 10	Q01	119/129	154/156	211/225	224/228
	M01	117	152	229	224
	W01	117/119	152/154	211/229	224/228
	W02	117/119	152/156	225/229	224/224
	W03	117/119	152/154	211/229	224/228
	W04	117/119	152/156	211/229	224/228
	W05	117/119	152/154	211/229	224/228
	W06	117/129	152/154	225/229	224/224
	W07	117/129	152/156	211/229	224/228
	W08	117/129	152/154	225/229	224/224
	W09	117/129	152/156	211/229	224/228
	W10	117/129	152/156	211/229	224/228
	W11	117/119	152/154	211/229	224/228
	W12	117/119	152/154	211/229	224/228

	W13	117/119	152/156	225/229	224/224
	W14	117/129	152/156	225/229	224/224
	W15	117/129	152/156	211/229	224/228
	W16	117/119	152/154	225/229	224/224
	W17	117/129	152/154	211/229	224/228
	W18	117/129	152/154	211/229	224/228
	W19	117/119	152/154	211/229	224/228
	W20	117/129	152/156	211/229	224/228
Lfu 11	Q01 (0.34)	119/139	140/166	215/215	224/238
	Q02 (0.66)	119/139	140/166	217/217	224/238
	M01	137	154	217	230
	M02	137	154	215	230
	W01	119/137	140/154	215/217	224/230
	W02	119/137	140/154	215/217	224/230
	W03	119/137	154/166	215/217	230/238
	W04	119/137	154/166	215/217	230/238
	W05	119/137	154/166	215/217	224/230
	W06	137/139	154/166	215/217	230/238
	W07	137/139	154/166	215/217	224/230
	W08	137/139	154/166	215/217	224/230
	W09	137/139	140/154	215/217	230/238
	W10	119/137	154/166	215/217	230/238
	W11	137/139	154/166	215/217	230/238
	W12	119/137	154/166	215/217	230/238
	W13	137/139	140/154	215/217	224/230
	W14	119/137	140/154	215/217	230/238
	W15	119/137	154/166	215/217	224/230
	W16	119/137	154/166	215/217	230/238
	W17	137/139	140/154	215/217	230/238
	W18	119/137	140/154	215/217	230/238
	W19	119/137	140/154	215/217	230/238
	W20	119/137	154/166	215/217	224/230
Lfu 12	Q01	119/123	148/158	229/235	224/228
	M01	119	150	233	228
	W01	119/123	150/158	229/233	228/228
	W02	119/119	148/150	229/233	228/228
	W03	119/119	150/158	233/235	224/228
	W04	119/123	148/150	233/235	224/228
	W05	119/123	150/158	229/233	228/228
	W06	119/119	150/158	233/235	224/228
	W07	119/123	150/158	229/233	228/228
	W08	119/119	148/150	233/235	224/228
	W09	119/119	150/158	229/233	228/228
	W10	119/123	150/158	229/233	228/228
	W11	119/119	150/158	229/233	228/228
	W12	119/119	150/158	229/233	228/228
	W13	119/119	150/158	233/235	224/228

	W14	119/119	150/158	233/235	224/228
	W15	119/123	150/158	233/235	224/228
	W16	119/119	148/150	233/235	224/228
	W17	119/123	150/158	229/233	228/228
	W18	119/119	148/150	233/235	224/228
	W19	119/123	150/158	233/235	224/228
Lfu 13	Q01	119/133	150/166	209/231	226/228
	M01.1	135	150	223	214
	M01.2	119	150	233	224
	W01 (M01.1)	119/135	150/166	223/231	214/228
	W02 (M01.1)	119/135	150/166	209/223	214/226
	W03 (M01.1)	133/135	150/166	209/223	214/226
	W04 (M01.1)	133/135	150/166	223/231	214/228
	W05 (M01.1)	119/135	150/166	223/231	214/228
	W06 (M01.1)	119/135	150/150	209/223	214/226
	W07 (M01.1)	119/135	150/166	209/223	214/226
	W08 (M01.2)	119/119	150/150	231/233	224/228
	W09 (M01.2)	119/133	150/150	231/233	224/228
	W10 (M01.1)	119/135	150/166	209/223	214/228
	W11 (M01.2)	119/133	150/150	231/233	224/228
	W12 (M01.1)	119/135	150/166	209/223	?/?
	W13 (M01.1)	119/135	150/166	223/231	214/228
	W14 (M01.2)	119/133	150/150	231/233	224/228
	W15 (M01.2)	119/119	150/150	231/233	224/228
	W16 (M01.1)	133/135	150/166	223/231	214/228
	W17 (M01.1)	119/135	150/166	209/223	214/226
	W18 (M01.1)	119/135	150/166	223/231	?/?
	W19 (M01.2)	119/119	150/150	231/233	224/?
	W20 (M01.1)	133/135	150/166	223/231	214/228
Lfu 14	Q01	119/135	138/150	207/223	230/234
	M01	135	148	209	228
	W01	119/135	138/148	207/209	228/230
	W02	119/135	138/148	207/209	228/230
	W03	135/135	138/148	207/209	228/230
	W04	119/135	148/150	209/223	228/234
	W05	119/135	138/148	207/209	228/230
	W06	135/135	148/150	207/209	228/230
	W07	135/135	148/150	207/209	228/230
	W08	119/135	148/150	207/209	228/230
	W09	135/135	148/150	209/223	228/234
	W10	135/135	138/148	209/223	228/234
	W11	119/135	148/150	209/223	228/234
	W12	119/135	148/150	207/209	228/230
	W13	135/135	138/148	207/209	228/230
	W14	135/135	148/150	209/223	228/234
	W15	135/135	138/148	209/223	228/234
	W16	135/135	148/150	207/209	228/230

	W17	119/135	138/148	207/209	228/230
	W18	135/135	138/148	209/223	228/234
	W19	135/135	138/148	207/209	228/230
	W20	135/135	138/148	207/209	228/230
Lfu 15	Q01	123/129	150/160	223/225	230/232
	M01	119	150	233	230
	W01	119/123	150/150	225/233	230/230
	W02	119/129	150/150	223/233	230/232
	W03	119/129	150/160	?/?	230/232
	W04	119/123	150/150	223/233	230/232
	W05	119/129	150/150	223/233	230/232
	W06	119/129	150/150	223/233	230/232
	W07	119/123	150/160	223/233	230/232
	W08	119/123	150/160	223/233	230/232
	W09	119/123	150/160	?/?	230/232
	W10	119/123	150/160	223/233	230/232
	W11	119/123	150/150	223/233	230/232
	W12	119/129	150/160	225/233	230/230
	W13	119/129	150/160	223/233	230/232
	W14	119/129	150/160	?/?	230/230
	W15	119/129	150/150	?/?	230/232
	W16	119/129	150/150	223/233	230/232
	W17	119/123	150/160	225/233	230/230
	W18	119/123	150/150	223/233	230/232
	W19	119/123	150/160	225/233	230/230
	W20	119/123	150/160	223/233	230/232
Lfu 16	Q01	119/119	146/154	221/227	222/232
	M01	119	164	225	230
	W01	119/119	146/164	221/225	230/232
	W02	119/119	146/164	?/?	222/230
	W03	119/119	154/164	225/227	222/230
	W04	119/119	146/164	225/227	222/230
	W05	119/119	154/164	221/225	230/232
	W06	119/119	154/164	?/?	230/232
	W07	119/119	154/164	221/225	230/232
	W08	?/?	146/164	221/225	230/232
	W09	119/119	154/164	221/225	230/232
	W10	119/119	146/164	225/227	222/230
	W11	119/119	146/164	221/225	230/232
	W12	119/119	146/164	225/227	222/230
	W13	119/119	154/164	225/227	222/230
	W14	119/119	154/164	221/225	230/232
	W15	119/119	146/164	221/225	230/232
	W16	119/119	154/164	225/227	222/230
	W17	119/119	146/164	225/227	222/230
	W18	119/119	154/164	221/225	230/232
	W19	119/119	146/164	225/227	222/230

Lfu 17	Q01	115/131	148/154	217/233	230/236
	M01	131	168	213	228
	W01	115/131	148/168	213/217	228/230
	W02	131/131	154/168	213/217	228/230
	W03	131/131	148/168	213/217	228/230
	W04	131/131	148/168	213/233	228/236
	W05	115/131	154/168	213/233	228/236
	W06	131/131	154/168	213/233	228/236
	W07	115/131	154/168	213/217	228/230
	W08	131/131	148/168	213/217	228/230
	W09	115/131	154/168	213/217	228/230
	W10	131/131	154/168	213/233	228/236
	W11	115/131	154/168	213/217	228/230
	W12	115/131	148/168	213/217	228/230
	W13	131/131	154/168	213/217	228/230
	W14	131/131	148/168	213/217	228/230
	W15	115/131	148/168	213/233	228/236
	W16	115/131	154/168	213/233	228/236
	W17	131/131	154/168	213/217	228/230
	W18	131/131	154/168	213/217	228/230
W19	115/131	154/168	213/217	228/230	
W20	115/131	148/168	213/217	228/230	
Lfu 18	Q01	119/131	150/154	227/233	228/230
	M01	119	148	223	228
	W01	119/119	148/154	223/227	228/228
	W02	119/119	148/154	223/233	228/230
	W03	119/131	148/154	223/227	228/228
	W04	119/131	148/154	223/227	228/228
	W05	119/131	148/154	223/227	228/228
	W06	119/131	148/150	223/227	228/228
	W07	119/131	148/154	223/233	228/230
	W08	119/131	148/154	223/227	228/228
	W09	119/119	148/150	223/227	228/228
	W10	119/119	148/150	223/227	228/228
	W11	119/131	148/154	223/233	228/230
	W12	119/131	148/154	223/227	228/228
	W13	119/119	148/154	223/227	228/228
	W14	119/131	148/154	223/233	228/230
	W15	119/119	148/150	223/227	228/228
	W16	119/119	148/154	223/233	228/230
	W17	119/131	148/150	223/227	228/228
	W18	119/119	148/150	223/233	228/230
	W19	119/131	148/150	223/227	228/228
	W20	??	148/154	223/227	228/228
	W21	119/131	148/154	223/233	228/230
W22	119/131	148/154	223/233	228/230	
W23	119/131	148/150	223/227	228/228	

	W24	119/131	148/154	223/233	?/?
	W25	119/131	148/150	223/233	226/230
	W26	119/119	148/150	223/233	228/230
	W27	119/119	148/154	223/233	?/?
	W28	119/131	148/150	223/227	228/230
	W29	119/119	148/150	223/233	228/230
	W30	119/131	148/154	223/227	228/228
	W31	119/119	148/150	223/233	228/230
	W32	119/131	148/150	223/233	228/230
	W33	119/119	148/154	223/233	228/230
	W34	119/131	148/150	223/227	228/228
	W35	119/131	148/150	223/233	228/230
	W36	119/131	148/150	223/227	228/228
	W37	119/131	148/150	223/233	228/230
	W38	119/119	148/150	223/227	228/228
	W39	119/119	148/154	223/233	228/230
	W40	119/119	148/154	223/227	228/228
Lfu 19	Q01 (0.75)	119/119	154/164	217/227	224/230
	Q02 (0.25)	133/133	154/164	217/227	224/230
	M01	133	150	213	236
	M02	119	150	213	236
	W01	119/133	150/154	213/217	230/236
	W02	119/133	150/164	213/217	230/236
	W03	119/133	150/164	213/227	224/236
	W04	119/133	150/164	213/227	224/236
	W05	119/133	150/164	213/217	230/236
	W06	119/133	150/164	?/?	230/236
	W07	119/133	150/164	213/227	224/236
	W08	119/133	150/154	213/217	230/236
	W09	119/133	150/164	213/217	230/236
	W10	119/133	150/154	213/217	230/236
	W11	119/133	150/154	213/217	230/236
	W12	119/133	150/164	213/227	224/236
	W13	119/133	150/154	213/217	230/236
	W14	119/133	150/154	213/217	230/236
	W15	119/133	150/154	213/227	224/236
	W16	119/133	150/164	213/227	224/236
	W17	119/133	150/154	213/227	224/236
	W18	?/?	150/164	213/217	230/236
	W19	119/133	150/154	213/227	224/236
	W20	119/133	150/164	213/217	230/236
Lfu 20	Q01	119/133	150/154	217/231	224/230
	M01	131	150	233	230
	W01	119/131	150/154	217/233	230/230
	W02	119/131	150/150	217/233	230/230
	W03	119/131	150/150	217/233	230/230
	W04	119/131	150/150	217/233	230/230

	W05	119/131	150/154	231/233	224/230
	W06	131/133	150/150	217/233	230/230
	W07	119/131	150/150	217/233	230/230
	W08	131/133	150/154	231/233	224/230
	W09	131/133	150/150	231/233	224/230
	W10	119/131	150/150	217/233	230/230
	W11	119/131	150/154	231/233	224/230
	W12	119/131	150/154	217/233	230/230
	W13	119/131	150/154	217/233	230/230
	W14	119/131	150/154	231/233	224/230
	W15	131/133	150/154	231/233	224/230
	W16	119/131	150/154	231/233	224/230
	W17	119/131	150/150	217/233	230/230
	W18	131/133	150/154	231/233	224/230
	W19	131/133	150/154	217/233	230/230
	W20	119/131	150/150	217/233	230/230
Lfu 21	Q01	117/135	150/152	213/223	226/238
	M01	119	154	223	232
	W01	119/135	150/154	??	226/232
	W02	??	152/154	223/?	226/232
	W03	119/135	150/154	223/223	226/232
	W04	117/119	152/154	223/223	226/232
	W05	117/119	150/154	213/223	232/238
	W06	119/135	152/154	223/223	226/232
	W07	117/119	150/154	213/223	232/238
	W08	119/135	150/154	213/223	232/238
	W09	119/135	150/154	223/223	226/232
	W10	117/119	152/154	213/223	232/238
	W11	119/135	152/154	213/223	232/238
	W12	117/119	152/154	213/223	232/238
	W13	117/119	152/154	213/223	232/238
	W14	117/119	152/154	213/223	232/238
	W15	117/119	150/154	223/223	226/232
	W16	117/119	150/154	223/223	226/232
	W17	119/135	152/154	213/223	232/238
	W18	117/119	150/154	213/223	232/238
	W19	119/135	152/154	223/?	226/232
	W20	119/135	152/154	213/223	232/238
Lfu 22	Q01 (0.46)	119/131	146/150	225/233	228/228
	Q02 (0.54)	119/131	146/150	225/233	230/230
	M01	127	154	223	230
	M02	127	154	223	228
	W01	127/131	146/154	223/233	228/230
	W02	127/131	146/154	223/225	228/230
	W03	119/127	146/154	223/233	228/230
	W04	119/127	150/154	223/233	228/230
	W05	127/131	150/154	223/225	228/230

	W06	127/131	146/154	223/233	228/230
	W07	119/127	146/154	223/233	228/230
	W08	127/131	150/154	223/225	228/230
	W09	127/131	146/154	223/225	228/230
	W10	119/127	150/154	223/225	228/230
	W11	127/131	150/154	223/225	228/230
	W12	119/127	146/154	223/233	228/230
	W13	127/131	150/154	223/225	228/230
	W14	119/127	150/154	223/225	228/230
	W15	127/131	146/154	223/225	228/230
	W16	127/131	150/154	223/233	228/230
	W17	119/127	146/154	223/225	228/230
	W18	127/131	150/154	223/233	228/230
	W19	119/127	150/154	223/225	228/230
	W20	127/131	150/154	223/233	228/230
Lfu 23	Q01	131/133	138/150	221/225	224/226
	M01	119	150	229	226
	W01	119/133	138/150	225/229	224/226
	W02	119/131	138/150	221/229	226/226
	W03	119/131	138/150	221/229	226/226
	W04	119/131	138/150	221/229	226/226
	W05	119/131	138/150	221/229	226/226
	W06	119/133	150/150	221/229	226/226
	W07	119/131	138/150	225/229	224/226
	W08	119/131	150/150	225/229	224/226
	W09	119/133	138/150	221/229	??
	W10	119/131	138/150	221/229	226/226
	W11	119/133	150/150	225/229	224/226
	W12	119/133	138/150	221/229	226/226
	W13	119/131	138/150	225/229	224/226
	W14	119/133	150/150	221/229	226/226
	W15	119/131	150/150	225/229	224/226
	W16	119/133	150/150	221/229	224/226
	W17	119/131	138/150	225/229	224/226
	W18	119/131	150/150	221/229	226/226
	W19	??	138/150	225/229	224/226
	W20	119/133	150/150	221/229	226/226
Lfu 24	Q01	113/135	144/154	211/215	230/236
	M01	135	168	215	232
	W01	135/135	154/168	211/215	230/232
	W02	113/135	154/168	211/215	230/232
	W03	113/135	154/168	211/215	230/232
	W04	135/135	154/168	211/215	230/232
	W05	135/135	154/168	211/215	230/232
	W06	135/135	144/168	215/215	232/236
	W07	135/135	144/168	211/215	230/232
	W08	113/135	154/168	211/215	230/232



	W09	113/135	144/168	211/215	230/232
	W10	113/135	154/168	211/215	??/?
	W11	113/135	154/168	211/215	230/232
	W12	113/135	144/168	211/215	230/232
	W13	135/135	154/168	215/215	232/236
	W14	113/135	144/168	211/215	230/232
	W15	135/135	154/168	215/215	232/236
	W16	113/135	154/168	215/215	232/236
	W17	135/135	144/168	215/215	232/236
	W18	135/135	144/168	211/215	230/232
	W19	113/135	154/168	215/215	232/236
	W20	135/135	154/168	215/215	232/236
Lfu 25	Q01 (0.52)	131/131	148/150	213/225	226/230
	Q02 (0.48)	133/133	148/150	213/225	226/230
	M01	133	150	231	224
	M02	131	150	231	224
	W01	131/133	148/150	225/231	224/226
	W02	131/133	148/150	225/231	224/226
	W03	131/133	148/150	213/231	224/230
	W04	131/133	150/150	213/231	224/230
	W05	??/?	150/150	213/231	224/230
	W06	131/133	148/150	225/231	224/226
	W07	131/133	148/150	213/231	224/230
	W08	131/133	150/150	225/231	224/226
	W09	131/133	150/150	213/231	224/230
	W10	131/133	148/150	225/231	224/226
	W11	131/133	150/150	213/231	224/230
	W12	131/133	148/150	??/?	224/230
	W13	??/?	150/150	213/231	224/230
	W14	??/?	150/150	225/231	224/226
	W15	131/133	148/150	213/231	224/226
	W16	131/133	150/150	225/231	224/230
	W17	131/133	150/150	225/231	224/230
	W18	??/?	148/150	213/231	224/230
	W19	131/133	150/150	225/231	224/226
	W20	??/?	150/150	225/231	224/226
Lfu 26	Q01	119/135	148/150	213/227	230/236
	M01	133	150	233	224
	W01	119/133	148/150	227/233	224/236
	W02	??/?	150/150	??/?	224/236
	W03	133/135	148/150	227/233	224/236
	W04	??/?	150/150	227/233	224/236
	W05	??/?	150/150	213/233	224/236
	W06	??/?	148/150	227/233	224/236
	W07	119/133	150/150	213/233	224/236
	W08	119/133	148/150	213/233	224/236
	W09	??/?	148/150	213/233	224/236

	W10	??	148/150	227/233	224/236
	W11	??	148/150	227/233	224/236
	W12	119/133	150/150	213/233	224/230
	W13	??	150/150	227/233	224/236
	W14	??	148/150	227/233	224/236
	W15	??	148/150	227/233	224/236
	W16	??	150/150	213/233	224/236
	W17	133/135	148/150	227/233	224/236
	W18	??	148/150	213/233	224/236
	W19	??	150/150	227/233	224/236
	W20	119/133	148/150	227/233	224/236
Lfu 27	Q01	135/137	148/154	217/229	224/232
	Q02	131/131	154/164	225/225	214/224
	M01	135	152	227	222
	M02	133	156	229	224
	W01 (Q01)	135/137	148/152	217/227	222/232
	W02 (Q01)	135/135	148/152	227/229	222/224
	W03 (Q01)	135/135	152/154	217/227	222/232
	W04 (Q01)	135/137	152/154	217/227	222/232
	W05 (Q02)	131/133	156/164	225/229	214/224
	W06 (Q01)	135/137	152/154	??	??
	W07 (Q01)	135/135	148/152	227/229	222/224
	W08 (Q01)	135/137	148/152	217/227	222/232
	W09 (Q01)	135/137	152/154	227/229	222/224
	W10 (Q01)	135/135	148/152	217/227	222/232
	W11 (Q01)	135/135	148/152	217/227	222/232
	W12 (Q01)	135/137	152/154	217/227	222/232
	W13 (Q01)	135/135	152/154	227/229	222/224
	W14 (Q01)	??	152/154	227/229	222/224
	W15 (Q01)	??	148/152	227/229	222/224
	W16 (Q02)	133/?	154/156	225/229	224/224
	W17 (Q01)	135/137	148/152	227/229	222/224
	W18 (Q02)	??	154/156	225/229	214/224
	W19 (Q01)	135/135	152/154	217/227	222/232
	W20 (Q01)	135/137	152/154	217/227	222/232
Lfu 28	Q01	119/123	154/162	223/233	224/226
	M01	133	148	225	232
	W01	123/133	148/162	225/233	226/232
	W02	119/133	148/162	223/225	224/232
	W03	123/133	148/154	225/233	226/232
	W04	??	148/154	??	226/232
	W05	119/133	148/162	223/225	??
	W06	??	148/162	223/225	224/232
	W07	123/133	148/162	223/225	224/232
	W08	123/133	148/162	225/233	226/232
	W09	??	148/154	??	224/232
	W10	119/133	148/154	225/233	226/232

	W11	119/133	148/162	223/225	224/232
	W12	119/133	148/154	223/225	224/232
	W13	?/?	148/162	225/233	226/232
	W14	123/133	148/154	225/233	226/232
	W15	119/133	148/162	225/233	226/232
	W16	119/133	148/162	?/?	226/232
	W17	119/133	148/162	225/233	226/232
	W18	119/133	148/154	225/233	226/232
	W19	123/133	148/154	223/225	224/232
	W20	123/133	148/154	223/225	224/232
Lfu 29	Q01	119/131	138/150	217/227	226/232
	M01	133	164	225	240
	W01	?/?	138/164	225/227	226/240
	W02	131/133	150/164	217/225	232/240
	W03	119/133	150/164	225/227	226/240
	W04	?/?	150/164	?/?	226/240
	W05	119/133	150/164	217/225	232/240
	W06	119/133	138/164	217/225	232/240
	W07	119/133	150/164	225/227	226/240
	W08	131/133	138/164	?/?	226/240
	W09	119/133	138/164	225/227	226/240
	W10	119/133	150/164	217/225	232/240
	W11	131/133	138/164	225/227	226/240
	W12	?/?	138/164	217/225	232/240
	W13	?/?	138/164	225/227	226/240
	W14	?/?	150/164	?/?	232/240
	W15	119/133	150/164	?/?	232/240
	W16	?/?	150/164	225/227	?/?
	W17	131/133	150/164	225/227	226/240
	W18	131/133	150/164	225/227	226/240
	W19	119/133	138/164	217/225	232/240
	W20	?/?	150/164	?/?	226/240
Lfu 30	Q01	119/131	150/154	207/211	224/230
	M01	121	164	213	224
	W01	119/121	150/164	211/213	224/224
	W02	121/131	154/164	207/213	224/230
	W03	119/121	150/164	207/213	224/230
	W04	121/131	150/164	211/213	224/230
	W05	119/121	150/164	207/213	224/230
	W06	119/121	154/164	207/213	224/230
	W07	119/121	154/164	207/213	224/230
	W08	121/131	154/164	211/213	224/224
	W09	121/131	150/164	207/213	224/230
	W10	121/131	154/164	211/213	224/224
	W11	119/121	154/164	207/213	224/230
	W12	121/131	150/164	211/213	224/224
	W13	121/131	150/164	207/213	224/230

	W14	121/131	150/164	207/213	224/230
	W15	??	150/164	??	224/224
	W16	121/131	150/164	211/213	224/224
	W17	121/131	150/164	207/213	224/230
	W18	121/131	154/164	211/213	224/224
	W19	119/121	154/164	207/213	224/230
	W20	121/131	150/164	211/213	224/224
Lfu 31	Q01 (0.58)	117/121	150/152	219/225	232/232
	Q02 (0.42)	117/121	150/152	219/225	234/234
	M01	117	150	225	234
	M02	117	150	225	232
	W01	117/117	150/152	??	232/234
	W02	117/117	150/150	??	??
	W03	??	150/150	??	232/234
	W04	117/121	150/152	219/225	232/234
	W05	117/121	150/150	225/?	232/234
	W06	117/121	150/152	225/225	232/234
	W07	117/117	150/150	219/225	232/234
	W08	117/117	150/152	219/225	232/234
	W09	117/117	150/152	225/225	232/234
	W10	117/117	150/152	225/225	232/234
	W11	117/121	150/152	219/225	232/234
	W12	117/117	150/150	225/225	232/234
	W13	117/121	150/150	225/225	232/234
	W14	117/121	150/150	219/225	232/234
	W15	117/117	150/150	219/225	232/234
	W16	117/121	150/150	225/225	232/234
	W17	117/117	150/152	225/225	232/234
	W18	??	150/150	225/225	232/234
	W19	117/117	150/152	225/225	232/234
	W20	117/117	150/152	219/225	232/234
Lfu 32	Q01	119/135	150/154	217/225	228/244
	M01	127	156	217	234
	W01	127/135	154/156	217/217	234/242
	W02	119/127	154/156	217/217	234/244
	W03	119/127	154/156	??	228/234
	W04	??	150/156	217/225	228/234
	W05	??	154/156	217/225	228/234
	W06	??	150/156	217/225	228/234
	W07	119/127	154/156	217/217	234/244
	W08	127/135	154/156	217/225	228/234
	W09	??	150/156	217/225	228/234
	W10	??	150/156	217/217	234/244
	W11	119/127	150/156	217/225	228/234
	W12	119/127	154/156	217/225	228/234
	W13	??	154/156	217/217	234/244
	W14	??	150/156	217/225	228/234

	W15	127/135	154/156	217/225	228/234
	W16	??	154/156	217/217	234/244
	W17	??	154/156	217/217	234/244
	W18	??	154/156	217/217	234/244
	W19	??	150/156	217/225	228/234
	W20	??	??	217/217	234/244
Lfu 33	Q01 (0.01)	117/119	148/164	207/223	224/234
	Q02 (0.99)	119/131	148/164	207/223	224/234
	M01.1	119	154	213	234
	M01.2	131	154	213	234
	M02.1	119	154	213	234
	M02.2	117	154	213	234
	W01 (M02.1)	119/119	148/154	213/223	234/234
	W02 (M02.1)	119/131	148/154	207/213	224/234
	W03 (M02.2)	117/119	148/154	207/213	224/234
	W04 (M02.1)	119/131	154/164	213/223	234/234
	W05 (M02.1)	119/131	154/164	??	224/234
	W06 (M02.1)	119/119	148/154	207/213	224/234
	W07 (M02.1)	119/119	154/164	207/213	224/234
	W08 (M02.1)	119/131	154/164	207/213	224/234
	W09 (M02.1)	119/131	154/164	207/213	224/234
	W10 (M02.1)	119/119	148/154	207/213	224/234
	W11 (M02.1)	119/119	148/154	207/213	224/234
	W12 (M02.1)	119/131	154/164	207/213	224/234
	W13 (M02.1)	??	154/164	213/223	234/234
	W14 (M02.1)	119/131	148/154	207/213	224/234
	W15 (M02.1)	119/119	148/154	213/223	234/234
	W16 (M02.1)	119/119	148/154	207/213	224/234
	W17 (M02.1)	??	154/164	213/223	234/234
	W18 (M02.1)	119/119	148/154	213/223	234/234
	W19 (M02.2)	117/119	154/164	213/223	234/234
	W20 (M02.1)	119/119	154/164	207/213	??

Tab. S4: Queen (Q), mate (M) and worker (W) genotypes of colony Lfu 6 and Lfu 8 specimens (sampled in 2017) at the loci Lf 03 to Lf 06. Sampling of these specimens took place one year after initial genotyping of the colonies to see whether queen adoption took place. Queen and mate genotypes were inferred from worker genotypes via the narrow deduction method of Matesoft v1.0. In case queens with different genotypes were possible to explain worker genotypes, the probability of each queen is given in brackets (based on allele frequencies in the colony and population). M01 refers to the mating partner of Q01 and M02 to Q02 and so on. Question marks indicate missing data.

Colony	Specimen	Lf 03	Lf 04	Lf 05	Lf 06
Lfu 6	Q01 (0.51)	119/119	148/148	221/227	224/232
	Q02 (0.24)	119/119	156/156	221/227	224/232
	Q03 (0.17)	133/133	148/148	221/227	224/232
	Q04 (0.08)	133/133	156/156	221/227	224/232
	M01	133	156	219	238
	M02	133	148	219	238
	M03	119	156	219	238
	M04	119	148	219	238
	W01	119/133	148/156	219/227	224/238
	W02	119/133	148/156	219/221	232/238
	W03	119/133	148/156	219/227	224/238
	W04	119/133	148/156	219/221	232/238
	W05	119/133	148/156	219/227	224/238
	W06	119/133	148/156	219/227	224/238
	W07	119/133	148/156	219/221	232/238
	W08	119/133	148/156	219/227	224/238
	W09	119/133	148/156	219/221	232/238
	W10	119/133	148/156	219/227	224/238
	W11	119/133	148/156	219/227	224/238
	W12	??	150/154	??	224/236
W13	119/133	??	219/227	224/238	
W14	119/133	??	219/227	224/238	
W15	117/119	??	??	224/236	
W16	119/133	148/156	219/227	224/238	
W17	119/133	148/156	219/227	226/238	
W18	117/119	150/154	217/225	230/236	
W19	119/133	148/156	219/227	224/238	
W20	119/133	148/156	219/227	224/238	
Lfu 8	Q01	119/121	148/156	221/225	224/232
	M01	119	150	223	224
	W01	119/121	??	223/225	224/224
	W02	??	148/150	223/225	224/224
	W03	??	148/150	223/225	224/224
	W04	??	150/156	??	224/232
	W05	119/119	150/156	221/223	224/232
	W06	??	150/156	223/225	224/224
	W07	119/121	148/150	??	224/232
	W08	119/119	148/150	223/225	224/224
	W09	119/119	??	??	224/232
	W10	119/119	148/150	221/223	224/232
	W11	119/121	150/156	221/223	224/224
	W12	119/121	150/156	221/223	224/232
	W13	??	??	221/223	224/232
	W14	119/119	150/156	221/223	224/232
	W15	??	150/156	??	224/224
W16	??	??	223/225	224/232	
W17	119/121	??	223/225	224/224	

Tab. S5: Queen (Q), mate (M) and male (Male) genotypes of sampled specimens at the loci Lf 03 to Lf 06. Queen and mate genotypes were inferred from worker genotypes via the narrow deduction method of Matesoft v1.0. In case queens with different genotypes were possible to explain worker genotypes, the probability of each queen is given in brackets (based on allele frequencies in the colony and population). M01 refers to the mating partner of Q01 and M02 to Q02 and so on. Question marks indicate missing data.

Colony	Specimen	Lf 03	Lf 04	Lf 05	Lf 06
Lfu 6	Q01 (0.51)	119/119	148/148	221/227	224/232
	Q02 (0.24)	119/119	156/156	221/227	224/232
	Q03 (0.17)	133/133	148/148	221/227	224/232
	Q04 (0.08)	133/133	156/156	221/227	224/232
	M01	133	156	219	238
	M02	133	148	219	238
	M03	119	156	219	238
	M04	119	148	219	238
	Male01	133	156	219	238
	Male02	119	156	219	238
	Male03	133	156	219	238
	Male04	133	156	227	224
Lfu 8	Q01	119/121	148/156	221/225	224/232
	M01	119	150	223	224
	Male01		156	225	
	Male02		150	223	
	Male03		148	225	
	Male04		156	221	
	Male05		148	225	
	Male06		148	225	
	Male07		156	221	
	Male08		148	225	
	Male09		148	225	
	Male10		148	225	
	Male11		156	221	
	Male12		156	221	
	Male13		156	225	
	Male14		148	221	
	Male15		148	225	
	Male16		148	225	
	Male17		148	225	
	Male18		148	225	
	Male19		156	225	
	Male20		156	221	
	Male21		148	225	
	Male22		148	221	
	Male23		156	225	
	Male24		148	225	
Male25		156	225		
Male26		148	225		

	Male27		148	221	
	Male28		148	225	
	Male29		148	221	
	Male30		148	225	
	Male31		156	225	
Lfu 9	Q01 (0.34)	121/131	150/156	215/215	226/230
	Q02 (0.66)	121/131	150/156	233/233	226/230
	M01	119	154	233	228
	M02	119	154	215	228
	Male01	121	150		226
	Male02	131	156		226
	Male03	131	150		226
	Male04	121	156		230
	Male05	131	156		226
	Male06	131	150		226
	Male07	121	150		226
	Male08	131	156		230
	Male09	131	156		230
	Male10	121	156		226
	Male11	131	156		226
	Male12	131	150		226
	Male13	131	156		230
Male14	131	150		226	
Male15	131	156		230	
Lfu 10	Q01	119/129	154/156	211/225	224/228
	M01	117	152	229	224
	Male01	129	156	225	
	Male02	129	154	225	
	Male03	119	154	211	
	Male04	129	156	225	
	Male05	119	156	211	
Lfu 11	Q01 (0.34)	119/139	140/166	215/215	224/238
	Q02 (0.66)	119/139	140/166	217/217	224/238
	M01	137	154	217	230
	M02	137	154	215	230
	Male01	?	166		224
	Male02	119	140		238
	Male03	119	140		224
	Male04	119	140		238
	Male05	119	140		224
	Male06	?	140		238
	Male07	119	166		224
Male08	?	?		238	
Lfu 14	Q01	119/135	138/150	207/223	230/234
	M01	135	148	209	228
	Male01		150	207	230
	Male02		138	207	?



	Male03		150	207	230
	Male04		138	207	230
	Male05		150	207	230
	Male06		138	223	234
	Male07		138	223	234
	Male08		138	?	?
	Male09		138	223	234
	Male10		150	207	230
	Male11		150	223	234
	Male12		138	207	230
	Male13		150	223	234
	Male14		150	207	230
	Male15		150	207	230
	Male16		150	207	230
	Male17		138	223	234
	Male18		138	?	234
	Male19		138	207	230
	Male20		150	207	230
Lfu 16	Q01	119/119	146/154	221/227	222/232
	M01	119	164	225	230
	Male01		154	227	222
	Male02		154	227	222
	Male03		146	221	232
	Male04		154	221	232
	Male05		146	221	232
	Male06		146	?	222
	Male07		146	221	232
	Male08		146	221	232
	Male09		146	221	232
	Male10		154	?	?
	Male11		146	?	?
	Male12		146	?	222
	Male13		146	?	222
	Male14		146	?	232
	Male15		154	?	222
	Male16		154	221	232
	Male17		146	?	222
	Male18		154	?	232
	Male19		154	?	222
	Male20		154	?	222
Lfu 17	Q01	115/131	148/154	217/233	230/236
	M01	131	168	213	228
	Male01		148	233	236
	Male02		154	217	230
	Male03		154	233	236
	Male04		154	217	230
	Male05		154	233	236

	Male06		148	233	236
	Male07		148	217	230
	Male08		154	233	236
	Male09		148	217	230
	Male10		154	217	230
	Male11		154	233	236
	Male12		154	217	230
	Male13		148	217	230
	Male14		154	217	230
	Male15		154	233	236
	Male16		154	217	230
Lfu 19	Q01 (0.75)	119/119	154/164	217/227	224/230
	Q02 (0.25)	133/133	154/164	217/227	224/230
	M01	133	150	213	236
	M02	119	150	213	236
	Male01		154	217	230
	Male02		150	213	236
	Male03		150	227	224
	Male04		150	227	224
	Male05		150	213	236
	Male06		150	217	230
	Male07		150	227	224
	Male08		150	213	236
	Male09		150	227	224
	Male10		154	227	224
	Male11		150	213	236
	Male12		150	213	236
	Male13		154	217	230
	Male14		154	213	236
	Male15		164	213	236
	Male16		150	227	224
Lfu 21	Q01	117/135	150/152	213/223	226/238
	M01	119	154	223	232
	Male01	135	152		238
	Male02	117	150		238
	Male03	135	152		238
	Male04	117	152		238
	Male05	135	150		226
	Male06	135	152		226
	Male07	117	150		226
	Male08	?	150		?
	Male09	117	150		226
	Male10	117	152		226

	Male11	117	152		?
Lfu 29	Q01	119/131	138/150	217/227	226/232
	M01	133	164	225	240
	Male01	119	150	217	232
	Male02	131	150	217	232
	Male03	119	138	227	226
	Male04	119	138	227	226
	Male05	119	150	217	232
	Male06	?	150	?	226
	Male07	119	150	217	232
	Male08	119	138	217	232
	Male09	119	138	?	226
	Male10	131	138	?	226
	Male11	131	150	227	226
	Male12	131	138	217	232
	Male13	131	150	217	232
	Male14	131	138	227	226
	Male15	119	150	227	226
	Male16	119	150	?	232
	Male17	131	150	?	226
	Male18	119	150	?	232
Male19	119	150	?	232	
Male20	?	138	?	234	
Lfu 33	Q01 (0.01)	117/119	148/164	207/223	224/234
	Q02 (0.99)	119/131	148/164	207/223	224/234
	M01.1	119	154	213	234
	M01.2	131	154	213	234
	M02.1	119	154	213	234
	M02.2	117	154	213	234
	Male01	119	148	207	
	Male02	131	148	207	
	Male03	131	148	207	
	Male04	131	164	207	
	Male05	131	148	223	
	Male06	131	148	223	
	Male07	131	148	223	
	Male08	131	164	207	
	Male09	119	148	223	
	Male10	119	164	223	
	Male11	119	164	223	
	Male12	131	148	223	
	Male13	131	164	207	
Male14	131	164	223		
Male15	131	148	223		
Male16	119	164	207		
Male17	119	164	223		
Male18	119	148	223		

	Male19	131	148	223	
	Male20	131	164	207	

Tab. S6: Homozygosity rates of the loci Lf 03 to Lf 06 in *Lasius fuliginosus* colonies in the study population.

Colony	Lf 03	Lf 04	Lf 05	Lf 06
Lfu 1	0.51	0.14	0.12	0.21
Lfu 2	0	0	0	0
Lfu 3	0.55	0.25	0.4	0
Lfu 4	0	0.6	0	0
Lfu 5	0	0	0	0
Lfu 6	0	0	0	0
Lfu 7	0	0	0.58	0
Lfu 8	0.5	0	0	0.6
Lfu 9	0	0	0	0
Lfu 10	0	0	0	0.3
Lfu 11	0	0	0	0
Lfu 12	0.58	0	0	0.47
Lfu 13	0.15	0.35	0	0
Lfu 14	0.6	0	0	0
Lfu 15	0	0.45	0	0.25
Lfu 16	1	0	0	0
Lfu 17	0.5	0	0	0
Lfu 18	0.41	0	0	0.53
Lfu 19	0	0	0	0
Lfu 20	0	0.45	0	0.6
Lfu 21	0	0	0.35	0
Lfu 22	0	0	0	0
Lfu 23	0	0.4	0	0.47
Lfu 24	0.5	0	0.35	0
Lfu 25	0	0.55	0	0
Lfu 26	0	0.4	0	0
Lfu 27	0.38	0	0	0.05
Lfu 28	0	0	0	0
Lfu 29	0	0	0	0
Lfu 30	0	0	0	0.4
Lfu 31	0.61	0.5	0.56	0
Lfu 32	0	0	0.47	0
Lfu 33	0.5	0	0	0.37
Monogynous	0.19	0.13	0.09	0.13
Polygynous	0.44	0.07	0.06	0.13
Total	0.21	0.12	0.09	0.13

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