

SUPPLEMENTARY MATERIALS FOR THE ARTICLE:

Change and stasis in urban populations of the land snail *Cepaea nemoralis* over five to
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Table SM.01

Location, habitat type and composition of original and re-survey samples in Sheffield
 Y, yellow, P, pink; B, Brown; 0, unbanded; 3, mid-banded; 5p, five-banded punctuate; 5n, five-banded

Date	Easting	Northing	Longitude	Latitude	Site	Habitat
2007	4339	3845	-1.49213	53.35630	Sheffield 1	Woodland
2023-2024	4339	3845	-1.49213	53.35630	Sheffield 1	Woodland
2007	4316	3894	-1.52620	53.40048	Sheffield 3	Scrub
2023-2024	4316	3894	-1.52620	53.40048	Sheffield 3	Intermediate
2007	4383	3906	-1.42529	53.41082	Sheffield 4	Open
2023-2024	4383	3906	-1.42529	53.41082	Sheffield 4	Open
2007	4430	3853	-1.35531	53.36283	Sheffield 5	Scrub
2023-2024	4430	3853	-1.35531	53.36283	Sheffield 5	Woodland
2007	4449	3824	-1.32717	53.33660	Sheffield 6	Scrub
2023-2024	4449	3824	-1.32717	53.33660	Sheffield 6	Scrub
2007	4343	3834	-1.48624	53.34638	Sheffield 8	Woodland
2023-2024	4343	3834	-1.48624	53.34638	Sheffield 8	Scrub
2007	4380	3829	-1.43072	53.34164	Sheffield 9	Woodland
2023-2024	4380	3829	-1.43072	53.34164	Sheffield 9	Woodland
2007	4362	3845	-1.45758	53.35614	Sheffield 10	Woodland
2023-2024	4362	3845	-1.45758	53.35614	Sheffield 10	Woodland
2007	4447	3836	-1.33000	53.34741	Sheffield 16	Intermediate
2023-2024	4447	3836	-1.33000	53.34741	Sheffield 16	Intermediate
2007	4363	3911	-1.45532	53.41546	Sheffield 22	Scrub
2023-2024	4363	3911	-1.45532	53.41546	Sheffield 22	Scrub
2007	4352	3828	-1.47279	53.34093	Sheffield 24	Scrub

2023-2024	4352	3828	-1.47279	53.34093	Sheffield 24	Scrub
2007	4373	3837	-1.44114	53.34888	Sheffield 26	Scrub
2023-2024	4373	3837	-1.44114	53.34888	Sheffield 26	Woodland
2007	4372	3937	-1.44147	53.43877	Sheffield 28	Intermediate
2023-2024	4372	3937	-1.44147	53.43877	Sheffield 28	Intermediate
2007	4446	3818	-1.33176	53.33124	Sheffield 29	Intermediate
2023-2024	4446	3818	-1.33176	53.33124	Sheffield 29	Intermediate
2007	4302	3875	-1.54743	53.38348	Sheffield 30	Woodland
2023-2024	4302	3875	-1.54743	53.38348	Sheffield 30	Woodland
2007	4448	3838	-1.32847	53.34920	Sheffield 34	Intermediate
2023-2024	4448	3838	-1.32847	53.34920	Sheffield 34	Intermediate
2007	4310	3827	-1.53588	53.34029	Sheffield 36	Intermediate
2023-2024	4310	3827	-1.53588	53.34029	Sheffield 36	Intermediate
2007	4361	3845	-1.45908	53.35615	Sheffield 39	Intermediate
2023-2024	4361	3845	-1.45908	53.35615	Sheffield 39	Intermediate
2007	4346	3925	-1.48074	53.42816	Sheffield 42	Scrub
2023-2024	4346	3925	-1.48074	53.42816	Sheffield 42	Open
2007	4394	3848	-1.40946	53.35861	Sheffield 49	Intermediate
2023-2024	4394	3848	-1.40946	53.35861	Sheffield 49	Scrub
2007	4335	3845	-1.49814	53.35632	Sheffield 53	Scrub
2023-2024	4335	3845	-1.49814	53.35632	Sheffield 53	Scrub
2007	4312	3894	-1.53221	53.40050	Sheffield 54	Scrub
2023-2024	4312	3894	-1.53221	53.40050	Sheffield 54	Woodland
2007	4339	3832	-1.49227	53.34461	Sheffield 55	Intermediate
2023-2024	4339	3832	-1.49227	53.34461	Sheffield 55	Woodland
2007	4292	3873	-1.56248	53.38174	Sheffield 56	Scrub
2023-2024	4292	3873	-1.56248	53.38174	Sheffield 56	Woodland
2007	4299	3896	-1.55174	53.40238	Sheffield 57	Scrub
2023-2024	4299	3896	-1.55174	53.40238	Sheffield 57	Woodland
2007	4317	3848	-1.52515	53.35913	Sheffield 58	Scrub

2023-2024	4317	3848	-1.52515	53.35913	Sheffield 58	Scrub
2007	4378	3830	-1.43372	53.34255	Sheffield 59	Open
2023-2024	4378	3830	-1.43372	53.34255	Sheffield 59	Open
2007	4313	3863	-1.53101	53.37263	Sheffield 66	Intermediate
2023-2024	4313	3863	-1.53101	53.37263	Sheffield 66	Intermediate
2007	4358	3892	-1.46305	53.39842	Sheffield 67	Intermediate
2023-2024	4358	3892	-1.46305	53.39842	Sheffield 67	Intermediate
2007	4399	3866	-1.40172	53.37475	Sheffield 68	Intermediate
2023-2024	4399	3866	-1.40172	53.37475	Sheffield 68	Scrub
2007	4341	3844	-1.48914	53.35538	Sheffield 69	Scrub
2023-2024	4341	3844	-1.48914	53.35538	Sheffield 69	Scrub
2007	4308	3819	-1.53896	53.33311	Sheffield 70	Intermediate
2023-2024	4308	3819	-1.53896	53.33311	Sheffield 70	Woodland
2007	4386	3926	-1.42053	53.42878	Sheffield 71	Intermediate
2023-2024	4386	3926	-1.42053	53.42878	Sheffield 71	Intermediate
2007	4354	3925	-1.46870	53.42810	Sheffield 73	Intermediate
2023-2024	4354	3925	-1.46870	53.42810	Sheffield 73	Intermediate
2007	4361	3827	-1.45928	53.33997	Sheffield 74	Open
2023-2024	4361	3827	-1.45928	53.33997	Sheffield 74	Open
2007	4401	3882	-1.39852	53.38912	Sheffield 75	Scrub
2023-2024	4401	3882	-1.39852	53.38912	Sheffield 75	Woodland
2007	4363	3937	-1.45502	53.43883	Sheffield 76	Scrub
2023-2024	4363	3937	-1.45502	53.43883	Sheffield 76	Scrub
2007	4318	3882	-1.52331	53.38968	Sheffield 87	Intermediate
2023-2024	4318	3882	-1.52331	53.38968	Sheffield 87	Intermediate
2007	4256	3852	-1.61677	53.36305	Sheffield 88	Intermediate
2023-2024	4256	3852	-1.61677	53.36305	Sheffield 88	Intermediate
2007	4368	3891	-1.44803	53.39745	Sheffield 89	Intermediate
2023-2024	4368	3891	-1.44803	53.39745	Sheffield 89	Intermediate
2007	4309	3877	-1.53689	53.38524	Sheffield 90	Scrub

2023-2024	4309	3877	-1.53689	53.38524	Sheffield 90	Woodland
2007	4434	3849	-1.34935	53.35920	Sheffield 91	Intermediate
2023-2024	4434	3849	-1.34935	53.35920	Sheffield 91	Intermediate
2007	4336	3840	-1.49669	53.35182	Sheffield 92	Scrub
2023-2024	4336	3840	-1.49669	53.35182	Sheffield 92	Scrub
2007	4394	3872	-1.40916	53.38018	Sheffield 93	Scrub
2023-2024	4394	3872	-1.40916	53.38018	Sheffield 93	Scrub
2007	4311	3824	-1.53440	53.33759	Sheffield 94	Woodland
2023-2024	4311	3824	-1.53440	53.33759	Sheffield 94	Woodland
2007	4448	3833	-1.32854	53.34470	Sheffield 95	Scrub
2023-2024	4448	3833	-1.32854	53.34470	Sheffield 95	Scrub
2007	4378	3920	-1.43264	53.42344	Sheffield 96	Intermediate
2023-2024	4378	3920	-1.43264	53.42344	Sheffield 96	Intermediate
2007	4363	3935	-1.45504	53.43703	Sheffield 97	Woodland
2023-2024	4363	3935	-1.45504	53.43703	Sheffield 97	Woodland
2007	4394	3873	-1.40915	53.38108	Sheffield 98	Scrub
2023-2024	4394	3873	-1.40915	53.38108	Sheffield 98	Woodland
2007	4448	3827	-1.32863	53.33931	Sheffield 102	Intermediate
2023-2024	4448	3827	-1.32863	53.33931	Sheffield 102	Intermediate
2007	4337	3834	-1.49525	53.34642	Sheffield 104	Scrub
2023-2024	4337	3834	-1.49525	53.34642	Sheffield 104	Scrub
2007	4349	3925	-1.47622	53.42814	Sheffield 105	Intermediate
2023-2024	4349	3925	-1.47622	53.42814	Sheffield 105	Intermediate
2007	4438	3818	-1.34377	53.33130	Sheffield 108	Scrub
2023-2024	4438	3818	-1.34377	53.33130	Sheffield 108	Scrub
2007	4368	3938	-1.44748	53.43969	Sheffield 109	Intermediate
2023-2024	4368	3938	-1.44748	53.43969	Sheffield 109	Intermediate
2007	4319	3848	-1.52215	53.35912	Sheffield 112	Intermediate
2023-2024	4319	3848	-1.52215	53.35912	Sheffield 112	Intermediate
2007	4373	3898	-1.44043	53.40370	Sheffield 113	Intermediate

2023-2024	4373	3898	-1.44043	53.40370	Sheffield 113	Scrub
2007	4373	3936	-1.43998	53.43786	Sheffield 116	Open
2023-2024	4373	3936	-1.43998	53.43786	Sheffield 116	Scrub
2007	4298	3847	-1.55371	53.35834	Sheffield 117	Intermediate
2023-2024	4298	3847	-1.55371	53.35834	Sheffield 117	Scrub
2007	4354	3855	-1.46948	53.36519	Sheffield 124	Open
2023-2024	4354	3855	-1.46948	53.36519	Sheffield 124	Open
2007	4430	3816	-1.35581	53.32957	Sheffield 125	Intermediate
2023-2024	4430	3816	-1.35581	53.32957	Sheffield 125	Woodland
2007	4303	3865	-1.54603	53.37449	Sheffield 128	Intermediate
2023-2024	4303	3865	-1.54603	53.37449	Sheffield 128	Intermediate
2007	4321	3877	-1.51885	53.38517	Sheffield 129	Scrub
2023-2024	4321	3877	-1.51885	53.38517	Sheffield 129	Scrub
2007	4358	3926	-1.46267	53.42897	Sheffield 132	Scrub
2023-2024	4358	3926	-1.46267	53.42897	Sheffield 132	Scrub
2007	4307	3892	-1.53975	53.39874	Sheffield 133	Intermediate
2023-2024	4307	3892	-1.53975	53.39874	Sheffield 133	Intermediate
2007	4366	3938	-1.45049	53.43971	Sheffield 134	Intermediate
2023-2024	4366	3938	-1.45049	53.43971	Sheffield 134	Intermediate
2007	4311	3892	-1.53374	53.39871	Sheffield 135	Intermediate
2023-2024	4311	3892	-1.53374	53.39871	Sheffield 135	Intermediate

six genera

ve-banded normal bar

Sum N	Y0	Y3	Y5p	Y5n	P0	P3	P5p	P5n	
54	3			1	3	8		24	15
59	3			0	9	13	1	17	16
88	8			1	15	8		21	35
52	3			0	4	6	2	16	21
139			1	5	39	13		15	66
43				2	9	3		7	22
134			13	1	23		40	5	52
60	1		6		9		17	6	21
36				3	13			11	9
30	1	1		4	9	1		11	3
85	7			15	15			17	31
63				17	7			24	15
45					10			24	11
24	1				6			12	5
29	1			2	8			10	8
51	2			2	5	2		17	23
20	1			1	7	2		5	4
25	1			5	3	2		13	1
24	1	2		2	11		1	1	5
30		2		2	8	2		7	9
24	6	4			5	3	1	1	4

40	4	10	6	17	2	1		
129	1	1	3	56	2			66
31	1	2		15	2	2		9
30		6	1	19		1	2	1
49		2		35	1	1	8	2
54		1	6	9	1		16	21
85		2	1	16	4	1	18	43
80		4	4	20		8	11	33
31			2	1		3	15	10
186	1	29	3	127	2	4	12	8
56		9		20	4	6	6	11
83		10		3	3	38	11	18
76		13		16	2	21	9	15
20	2	3		0	2	7		6
25	2			2	2	12	1	4
136				92			44	0
40		2	3	14			16	5
30	3			10	5		5	7
37			2	15	5		3	12
74			2	40			32	0
37			2	17	2		12	4
75	3		12	40			20	0
51	14		1	22	5		7	12
106	25		8	37	5	1	12	18
54	12		2	18	8		4	10
59	9		3	38			4	5
56	7		2	16	13		3	15
29	9	1	2	11	2			4
120	11		12	37	7		21	32
74	6		13	25	9		13	8

91	17	2	7	31	4		9	11
95	11	10	6	34	4	6	24	0
77	9	7	5	34	2	1	6	13
59		12		26		2		8
40		8	1	11		11	1	6
140		18	2	39		12	30	3
64		2		30		11	17	4
45		1		31				9
46		2	0	27		3	5	9
64		8		27		9	2	18
40		2		19		3	5	11
47		12		16		5		14
32		8	0	12		3		9
49		13		27		1	1	7
27		3	0	21		2		1
33				16	6			8
62		1		13	17		2	29
51		2		45		1	3	0
83		11		63		1	6	2
31				31				0
28			0	25				3
31		4		25		1	1	0
81		40		15		21	1	4
35	22	9	2	2				0
45	11	3	3	13	5	4	1	5
48	34	11		2				0
28	16	5	0	1	1	5		
59	2	4	1	32	2		10	8
31	16	7	1	1	2	3		1
58			2	56				0

79		8	3	68				
30	25	2		1	2			0
27	23	1	0	1	1			
49	1	5	1	17		3	9	13
46		6		17		3	8	12
46	1	2	3	11		4	5	20
51	3	8	9	21	1	1	3	5
45		3	12	20			3	7
23	1	2	2	13			3	2
39			5	18			10	6
31			0	8		2	16	5
89		5	2	25		2	43	12
50		3		13	1	5	17	11
60			2	17			29	12
46			1	14			20	11
131		69	4	29		21	3	15
120	1	69		23		20	2	15
74			1	16	2		32	23
36				3	6		12	15
58			12	15	7	2	18	4
28	1		1	3	3	3	8	9
40		1		6		6	3	24
58		6	6	11		9	23	3
103		6		32		15		50
44		5	0	10		6		23
41		7		12		7		15
50		12	0	20		5		13
51		8	4	18		9	10	2
35	3	6	2	5	1	4	11	3
62			8	27			18	1

125	2		32	12	3		59	17
32		2		26			4	0
128		31	11	55		10	11	10
60			4	5			32	19
86		4	3	8		13	17	41
43		9		13		11		10
23		3	0	7	1	4		8
30				30				
112		67	1	40		4		
96		1	7	38		3	11	36
82			2	34	1	2	10	33
76		1	1	18		2	5	49
53		2	1	12		4	5	29
58		4	7	27	1	2	5	12
38	1		3	11			5	18
44		2		26			6	10
22		2	0	8		1	3	8
46		2	8	12		5	8	11
24				10		1	5	8
41		1		8		2	27	3
38	5	2	5	11	3	2	10	

B0	B3	B5p	B5n
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5	5	1
2		
8	28	
1	3	3

3



