

**Table 2.** Trait averages for consecutive generations under selection and linear regression coefficients of traits per generation

LINE	GEN	LS			LW			BW21			Tail			BW42			BW63		
		N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	STD	N	Mean	SD	N	Mean	SD
C	1	37	8.22	2.79	37	13.38	3.95	264	13.45	1.85	0 <sup>a</sup>			230	25.38	3.14	230	27.97	3.78
C	2	35	9.03	2.26	35	14.93	4.30	282	12.76	1.71	0 <sup>a</sup>			281	24.84	3.30	280	28.24	3.82
C	3	33	8.70	2.49	33	13.80	3.55	254	12.53	1.61	0 <sup>a</sup>			252	25.23	2.95	251	28.51	3.66
C	4	35	7.91	3.36	35	12.60	4.76	243	13.16	1.56	0 <sup>a</sup>			242	25.11	2.95	241	28.38	3.50
C	5	34	8.26	2.38	34	12.35	3.32	252	12.54	1.52	0 <sup>a</sup>			251	24.84	3.07	250	27.96	3.55
C	6	40	8.58	2.65	40	13.40	3.82	305	12.20	1.75	0 <sup>a</sup>			304	24.57	3.11	304	27.57	3.65
C	7	36	9.03	2.97	36	13.83	4.09	280	12.54	1.52	0 <sup>a</sup>			279	25.18	2.72	278	28.22	3.44
C	8	35	9.51	1.74	35	14.73	2.63	289	12.44	1.41	0 <sup>a</sup>			288	25.19	3.08	288	28.18	3.96
C	9	30	9.57	2.84	30	14.19	3.50	230	11.81	1.70	0 <sup>a</sup>			229	24.83	2.88	229	27.45	3.47
C	10	35	9.37	3.07	35	14.13	3.66	262	12.44	1.55	0 <sup>a</sup>			262	25.24	2.91	261	27.64	3.79
C	11	24	10.38	2.73	24	15.64	3.61	201	12.47	1.60	0 <sup>a</sup>			201	25.08	3.08	201	28.60	3.72
b			0.17			0.13			-0.09					0.00					-0.03
p-value			0.0017			0.0896			<0.0001					0.9057					0.1971
G	1	24	9.75	2.82	24	14.69	4.69	182	12.78	1.83	156	9.20	0.43	156	24.71	3.21	156	27.42	3.83
G	2	22	8.59	2.95	22	15.04	6.05	165	13.17	1.60	138	9.47	0.75	138	26.07	3.15	138	29.50	3.90
G	3	24	9.50	3.02	24	15.62	4.25	183	12.84	1.51	158	9.08	0.53	158	26.43	3.25	158	30.10	3.96
G	4	22	8.41	3.95	22	13.59	5.80	145	13.71	1.87	119	9.54	0.42	119	27.61	3.28	119	30.98	4.14
G	5	22	8.36	3.06	22	14.27	4.44	163	13.61	1.95	136	9.85	0.45	136	27.66	3.41	136	31.35	4.21
G	6	23	9.17	2.84	23	15.95	4.57	183	13.60	1.66	147	9.54	0.63	147	28.39	3.52	147	32.64	4.51
G	7	19	8.89	3.70	19	15.72	6.24	138	14.32	1.33	112	9.70	0.44	112	29.60	3.45	112	34.30	4.69
G	8	23	9.09	2.48	23	16.16	3.67	176	13.14	1.78	148	9.38	0.58	148	29.58	3.26	148	33.73	4.07
G	9	25	9.00	3.80	25	15.88	5.53	170	13.48	2.22	142	9.25	0.41	142	30.26	3.48	142	34.89	4.49
G	10	20	7.35	3.13	20	13.26	5.46	113	14.63	1.93	93	9.71	0.42	93	31.36	4.04	93	36.22	5.11
G	11	12	9.25	4.14	12	16.43	6.56	73	14.35	2.52	62	9.72	0.44	62	31.88	3.86	62	37.14	4.65
b			-0.08			0.07			0.13			0.03		0.68					0.89
p-value			0.2553			0.5254			<0.0001			<0.0001		<0.0001					<0.0001
L	1	24	9.42	2.06	24	14.98	2.77	200	12.81	1.48	166	9.31	0.51	166	25.16	2.85	166	27.87	3.53
L	2	24	9.83	2.68	24	15.20	3.83	189	12.23	1.46	157	9.63	0.47	157	25.07	3.07	156	28.34	3.94
L	3	22	10.00	2.83	22	16.11	3.41	181	12.48	1.98	155	9.60	0.51	155	25.76	3.38	155	29.33	4.00
L	4	21	9.52	2.86	21	15.56	3.55	165	13.41	1.58	139	10.16	0.58	139	26.53	3.16	138	29.58	3.79
L	5	25	10.00	1.83	25	16.40	2.88	216	13.06	1.31	177	10.56	0.53	177	26.26	3.33	176	29.88	4.24
L	6	25	10.20	2.86	25	16.50	4.14	203	13.18	1.30	171	10.12	0.60	171	26.99	3.43	171	30.57	4.18
L	7	23	8.61	3.13	23	15.00	4.97	159	15.02	1.95	135	10.75	0.42	135	29.59	3.36	135	33.51	4.12
L	8	21	9.33	3.62	21	15.92	4.70	152	14.24	2.14	133	10.58	1.13	134	28.81	3.84	134	32.53	4.82
L	9	22	10.32	3.96	22	17.32	5.78	156	14.13	1.79	130	10.59	0.45	130	30.39	3.58	130	34.66	4.40
L	10	20	9.40	3.69	20	16.44	5.60	141	15.28	1.83	125	10.99	0.44	125	29.81	3.42	125	34.01	3.96
L	11	15	10.73	3.08	15	19.53	5.10	111	15.09	2.00	92	10.69	0.58	92	29.99	3.60	92	34.10	4.21
b			0.03			0.25			0.29			0.16		0.6					0.73
p-value			0.0686			0.0058			<0.0001			<0.0001		<0.0001					<0.0001
W	1	24	8.17	3.06	24	13.47	4.47	172	13.34	1.65	151	9.30	0.54	151	24.61	3.15	151	27.88	3.68
W	2	24	8.67	1.88	24	13.76	2.72	189	12.45	1.19	162	9.39	0.63	162	24.61	2.92	162	27.53	3.67
W	3	26	9.27	2.38	26	14.86	3.79	211	12.32	1.42	175	9.28	0.49	175	24.77	2.96	173	28.17	3.63
W	4	25	8.12	2.65	25	13.62	4.31	168	12.92	1.21	145	9.69	0.58	145	25.11	3.05	145	27.83	4.12
W	5	26	8.23	3.68	26	13.48	5.52	177	12.42	2.00	150	9.78	0.50	150	24.73	3.21	150	27.62	3.92
W	6	24	8.92	3.02	24	14.91	4.51	182	12.32	1.49	158	9.40	0.43	158	24.50	3.06	158	27.35	3.71
W	7	24	7.88	2.91	24	13.66	4.86	162	13.56	1.12	142	9.59	0.52	142	25.68	2.96	142	28.86	3.65
W	8	21	9.62	3.15	21	15.20	4.34	156	12.27	1.62	128	9.19	0.55	128	25.18	2.99	128	28.33	3.67
W	9	25	10.40	2.75	25	16.70	4.40	199	11.58	1.36	165	9.01	0.58	165	25.03	2.87	165	28.24	3.86
W	10	25	9.80	2.43	25	16.53	3.33	199	12.89	1.39	165	9.64	0.44	165	25.76	2.92	165	29.36	3.64
W	11	13	9.31	2.90	13	15.28	4.85	90	12.56	1.13	81	9.18	0.43	81	26.08	3.05	81	29.85	3.83
b			0.16			0.28			-0.04			-0.009		0.12					0.16
p-value			0.007			0.0015			0.0002			0.0448		<0.0001					<0.0001

Note on symbols: C- control line; G, L, W - lines selected on body weight at 42 days (grams), tail length (cm) and litter size (pups), respectively. GEN- generation; LS - litter size; LW - litter weight, BW21 - body weight at day 21, tail - tail length at day 42, BW42 - body weight at day 42, BW63 - body weight at day 63; SD - standard deviation; b - linear regression coefficient; p-value for the hypothesis of regression coefficient equal to 0; ? - tail length was not measured.