



Table A1. ANOVA between males and females (df=1) in a pooled sample, and for each population separately (numbers of males and females processed in each analysis are given in brackets). Significantly larger values are given in *italics*.

Trait	Pooled sample (188 ♂, 214 ♀)			Konjsko village (52 ♂, 43 ♀)			Pinja River valley (57 ♂, 34 ♀)			Prolom Banja (23 ♂, 46 ♀)			Trstenik (56 ♂, 91 ♀)							
	Mean	F	p	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p					
GENERAL																				
SCL	174.56	201.89	301.94	0.000	171.92	195.13	58.06	0.000	180.39	202.06	39.65	0.000	181.59	214.53	87.03	0.000	168.21	198.662	169.58	0.000
CCL	232.91	255.31	132.18	0.000	230.37	248.33	20.70	0.000	239.14	254.91	11.79	0.001	242.22	269.89	40.23	0.000	225.11	251.38	95.66	0.000
MCW	135.30	148.40	142.59	0.000	130.69	141.76	27.73	0.000	140.13	149.52	14.14	0.000	141.16	156.82	44.92	0.000	132.26	146.86	90.09	0.000
MaxCW	149.46	159.02	49.57	0.000	143.34	149.49	5.55	0.021	153.42	157.77	2.08	0.153	156.69	167.80	13.02	0.001	148.16	159.56	32.38	0.000
CCW	234.49	265.77	280.53	0.000	228.88	254.35	48.13	0.000	242.65	268.88	41.23	0.000	243.96	281.48	92.58	0.000	227.50	262.05	176.12	0.000
MPL	130.08	165.73	1105.09	0.000	128.76	163.39	279.34	0.000	133.84	167.05	195.31	0.000	135.46	173.85	242.29	0.000	125.27	162.23	554.87	0.000
MaxPL	148.16	182.01	736.58	0.000	145.52	177.17	162.22	0.000	152.08	182.58	116.70	0.000	154.71	192.01	178.49	0.000	143.94	179.02	387.53	0.000
PW ₆	122.27	131.73	85.35	0.000	118.14	127.33	22.55	0.000	127.13	133.24	6.39	0.013	126.90	138.88	30.75	0.000	119.25	129.64	49.08	0.000
MaxPW	127.53	135.75	57.08	0.000	122.94	130.24	11.28	0.001	132.03	136.26	2.89	0.093	132.30	143.45	24.30	0.000	125.26	134.26	32.19	0.000
TLC	435.58	500.16	323.71	0.000	428.75	486.12	62.63	0.000	447.77	500.68	44.03	0.000	452.35	528.54	91.29	0.000	422.63	492.26	177.93	0.000
MBC	368.47	407.07	178.69	0.000	367.87	406.19	32.85	0.000	377.30	406.59	20.34	0.000	378.96	426.13	64.09	0.000	355.75	398.04	112.24	0.000
SH	86.07	99.32	344.57	0.000	87.16	98.40	64.40	0.000	87.58	100.62	46.70	0.000	89.62	103.81	110.66	0.000	82.05	97.01	252.10	0.000
BL	62.97	86.64	1783.45	0.000	61.53	84.88	431.02	0.000	65.07	87.99	357.60	0.000	65.50	91.31	420.10	0.000	61.13	84.62	884.83	0.000
FLL	43.35	47.43	27.58	0.000	44.70	46.74	6.57	0.012	47.09	48.48	1.98	0.163	46.71	49.27	8.88	0.004	43.62	46.44	24.88	0.000
HLL	52.75	56.50	68.54	0.000	51.50	54.76	10.58	0.002	54.27	56.68	5.25	0.024	54.39	59.29	24.21	0.000	51.71	55.85	42.63	0.000
HL	32.22	32.77	6.53	0.011	31.92	32.44	1.36	0.246	33.54	33.43	0.05	0.825	32.58	33.65	5.35	0.024	31.00	32.24	17.33	0.000
SL	25.76	26.63	18.75	0.000	26.26	27.47	6.55	0.012	25.98	25.98	0.55	0.459	26.79	27.21	0.81	0.373	24.97	26.19	18.12	0.000
HW	26.72	27.79	34.38	0.000	26.45	27.98	15.44	0.000	27.36	27.84	1.16	0.284	27.71	28.66	5.50	0.022	25.87	27.25	25.91	0.000
HH	20.74	21.36	20.59	0.000	20.69	21.52	7.93	0.006	21.26	21.41	0.26	0.612	21.22	21.99	7.62	0.007	20.07	20.93	18.97	0.000
TL	50.94	33.26	742.32	0.000	50.57	31.00	232.53	0.000	50.65	30.55	160.76	0.000	53.54	36.11	133.84	0.000	50.53	33.90	272.10	0.000
Weight	1114.14	1669.58	339.78	0.000	1041.92	1540.19	70.86	0.000	1174.51	1685.88	67.11	0.000	1302.65	1971.00	92.39	0.000	1042.32	1572.27	157.34	0.000
ADDITIONAL																				
WV ₂	34.77	41.06	407.16	0.000	35.04	41.12	93.04	0.000	35.79	42.30	92.50	0.000	35.62	42.97	104.25	0.000	33.13	39.60	216.15	0.000
WV ₃	39.14	47.19	491.15	0.000	39.33	47.12	122.87	0.000	40.33	47.86	97.28	0.000	40.16	49.75	128.65	0.000	37.34	45.69	225.75	0.000
WV ₄	38.44	41.30	55.94	0.000	38.93	42.00	17.66	0.000	39.59	41.52	4.62	0.034	39.31	43.29	20.05	0.000	36.47	39.88	36.06	0.000
PC	5.80	1.34	887.78	0.000	5.81	0.76	223.05	0.000	5.98	0.91	208.17	0.000	5.87	2.08	112.75	0.000	5.60	1.39	378.86	0.000
GSL	21.39	25.11	147.13	0.000	20.81	24.28	36.32	0.000	22.63	25.90	21.38	0.000	21.95	26.16	26.04	0.000	20.43	24.69	81.22	0.000
HSL	22.97	26.51	158.43	0.000	22.32	25.99	40.06	0.000	24.00	26.68	14.47	0.000	23.75	27.64	39.56	0.000	22.21	26.12	87.60	0.000
PSL	11.16	14.05	141.50	0.000	12.03	16.17	73.22	0.000	11.55	14.36	41.36	0.000	10.96	14.67	46.24	0.000	10.04	12.62	50.36	0.000
AbSL	43.72	60.04	1329.72	0.000	43.68	59.08	338.25	0.000	43.98	59.40	261.08	0.000	45.89	62.84	177.70	0.000	42.59	59.32	573.41	0.000
FSL	11.41	11.80	2.544	0.112	11.72	12.04	0.48	0.491	11.86	11.96	0.04	0.845	11.65	13.07	4.58	0.036	10.58	10.99	1.17	0.280
AnSL	16.49	25.10	1150.35	0.000	15.90	24.56	238.91	0.000	17.68	25.74	257.60	0.000	16.17	25.22	171.35	0.000	15.97	25.05	533.62	0.000
ANW	55.19	40.26	720.47	0.000	54.78	38.17	206.89	0.000	55.86	41.44	119.34	0.000	55.73	42.24	87.67	0.000	54.66	39.80	313.72	0.000
ASJ	30.96	32.54	7.69	0.006	28.99	28.13	0.57	0.450	31.63	31.23	0.17	0.682	32.80	31.36	6.58	0.013	31.36	33.31	3.94	0.049
SHP	67.03	71.17	48.27	0.000	67.25	71.16	8.55	0.004	68.46	72.11	7.71	0.007	69.08	74.36	14.38	0.000	64.52	69.21	30.52	0.000
C ₁	9.78	13.55	97.42	0.000	8.37	9.77	6.21	0.014	9.95	12.28	23.25	0.000	11.17	15.92	20.45	0.000	10.36	14.60	38.53	0.000
C ₂	17.76	21.24	46.90	0.000	16.13	16.25	0.02	0.889	18.33	19.94	3.95	0.050	20.77	25.53	12.76	0.001	17.46	21.91	29.05	0.000
C ₃	27.58	29.50	10.03	0.002	25.87	23.89	3.83	0.053	29.21	28.92	0.07	0.785	31.05	34.63	4.88	0.031	26.09	29.78	15.78	0.000
C ₄	40.68	40.97	0.14	0.704	38.58	35.35	5.99	0.016	41.57	39.20	3.21	0.076	46.63	47.25	0.09	0.761	39.28	41.10	2.53	0.114
CL	15.80	10.50	286.31	0.000	14.73	8.37	103.81	0.000	16.25	9.37	80.66	0.000	16.23	11.74	47.55	0.000	16.14	11.31	110.22	0.000
ScC	9.33	0.50	1498.35	0.000	9.19	0.42	328.75	0.000	10.12	0.26	273.80	0.000	9.97	0.48	369.62	0.000	8.38	0.63	551.83	0.000

Table A2. ANCOVA between males and females (df=1, SCL as the covariate) in a pooled sample, and for each population separately (numbers of males and females processed in each analysis are given in brackets). Significantly larger values are given in *italics*.

Trait	Pooled sample (190 ♂, 223 ♀)				Konjisko village (52 ♂, 48 ♀)				Ponja River valley (58 ♂, 34 ♀)				Prolog Banja (23 ♂, 48 ♀)				Testenik (57 ♂, 93 ♀)			
	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p	Mean ♂	Mean ♀	F	p
GENERAL																				
CCL	249.01	239.07	160.58	0.000	245.17	233.82	66.26	0.000	252.78	241.12	50.88	0.000	261.50	249.88	27.77	0.000	241.58	235.08	18.71	0.000
MCW	144.08	139.53	66.58	0.000	138.42	134.25	20.11	0.000	147.40	142.22	22.34	0.000	150.53	147.28	3.83	0.054	141.28	137.76	13.63	0.000
MaxCW	160.14	148.24	250.74	0.000	152.95	140.37	126.18	0.000	162.25	148.92	105.11	0.000	169.45	154.78	57.65	0.000	159.79	147.81	84.11	0.000
CCW	249.06	251.04	3.47	0.063	242.12	241.71	0.05	0.825	253.95	257.44	2.45	0.121	259.14	265.92	5.00	0.029	242.21	247.25	7.29	0.008
MPL	138.62	157.28	1089.43	0.000	136.29	156.42	412.16	0.000	140.81	160.05	374.51	0.000	145.55	163.48	96.06	0.000	134.33	153.30	305.27	0.000
MaxPL	158.37	171.83	608.75	0.000	154.88	168.45	234.56	0.000	160.32	174.24	142.49	0.000	166.77	179.43	53.85	0.000	154.68	168.46	177.35	0.000
PW ₆	130.42	123.55	165.63	0.000	125.31	120.43	36.85	0.000	134.13	126.19	53.28	0.000	135.43	130.21	10.47	0.002	127.81	121.05	46.43	0.000
MaxPW	136.19	127.10	254.67	0.000	131.00	122.61	85.59	0.000	139.28	129.01	82.55	0.000	141.57	134.00	25.66	0.000	134.34	125.20	68.52	0.000
TLC	466.26	469.57	14.93	0.000	456.74	459.81	3.10	0.081	472.27	476.11	4.17	0.044	488.40	491.45	1.72	0.194	456.09	459.02	3.84	0.052
MBC	389.55	385.61	3.78	0.052	385.03	387.87	0.20	0.654	395.96	387.68	7.86	0.006	402.92	401.68	0.09	0.759	379.14	374.55	3.36	0.069
SH	91.01	94.38	36.01	0.000	92.16	93.61	3.85	0.053	91.63	96.56	8.58	0.004	94.23	99.10	13.35	0.001	87.29	91.75	38.64	0.000
BL	67.27	82.43	1915.42	0.000	65.42	81.42	540.53	0.000	68.36	84.72	484.30	0.000	70.35	86.31	239.68	0.000	65.69	80.15	677.54	0.000
FLL	48.14	44.59	138.05	0.000	47.47	44.04	49.47	0.000	49.22	46.28	12.37	0.001	49.88	46.04	26.38	0.000	46.66	43.34	51.84	0.000
HLL	56.05	53.22	76.41	0.000	55.12	51.43	47.63	0.000	56.72	54.21	8.84	0.004	58.26	55.36	13.28	0.001	55.01	52.49	20.65	0.000
HL	33.62	31.36	147.91	0.000	33.22	31.18	29.96	0.000	34.66	32.29	30.06	0.000	34.26	31.92	29.47	0.000	32.42	30.82	29.18	0.000
SL	26.76	25.61	28.94	0.000	27.43	26.17	7.16	0.009	26.46	25.17	9.63	0.003	28.06	25.91	15.18	0.000	26.11	25.05	10.33	0.002
HW	28.04	26.51	125.83	0.000	27.75	26.78	14.68	0.000	28.46	26.77	36.65	0.000	29.16	27.21	29.18	0.000	27.33	25.82	43.08	0.000
HH	21.69	20.44	137.36	0.000	21.64	20.65	20.65	0.000	22.05	20.63	42.53	0.000	22.25	20.92	30.80	0.000	21.09	19.94	39.66	0.000
TL	54.38	29.70	1356.96	0.000	53.85	27.56	472.96	0.000	53.38	27.59	269.61	0.000	57.57	31.93	203.69	0.000	54.92	29.59	524.73	0.000
Weight	1356.35	1427.74	22.95	0.000	1266.30	1333.61	9.44	0.003	1350.94	1508.01	24.66	0.000	1594.48	1670.67	3.22	0.077	1293.32	1320.86	1.18	0.279
ADDITIONAL																				
WV ₂	36.71	39.20	72.16	0.000	36.68	39.66	23.12	0.000	37.53	40.60	38.73	0.000	37.48	41.12	15.87	0.000	35.13	37.64	28.72	0.000
WV ₃	41.60	44.80	110.44	0.000	41.44	45.10	40.98	0.000	42.31	45.94	42.91	0.000	42.51	47.41	23.51	0.000	40.15	42.91	28.42	0.000
WV ₄	40.92	38.88	36.26	0.000	41.18	39.87	5.22	0.024	41.75	39.38	11.49	0.001	41.98	40.49	1.88	0.175	39.27	37.15	14.58	0.000
PC	6.37	0.74	1004.69	0.000	6.24	228.25	0.000	6.24	6.52	0.39	270.44	0.000	6.56	1.34	116.85	0.000	6.12	0.86	317.02	0.000
GSL	22.97	23.58	3.50	0.062	22.06	23.31	4.09	0.046	24.02	24.49	0.52	0.471	23.77	24.27	0.22	0.641	22.20	22.99	1.85	0.176
HSL	24.17	25.25	10.99	0.001	23.35	24.75	4.45	0.037	25.23	25.40	0.07	0.799	25.07	26.30	0.164	0.164	23.05	25.28	14.63	0.000
PSL	11.72	13.52	34.26	0.000	12.47	15.63	29.01	0.000	12.03	13.91	14.30	0.000	11.80	13.74	6.28	0.015	10.67	12.05	6.96	0.009
AbSL	46.50	57.33	696.06	0.000	46.04	57.03	218.95	0.000	45.87	57.51	172.16	0.000	49.47	59.25	42.23	0.000	46.20	55.75	230.94	0.000
AnSL	17.42	24.22	497.66	0.000	16.87	23.91	116.83	0.000	18.51	24.93	154.17	0.000	17.00	24.42	54.16	0.000	16.98	23.98	175.37	0.000
ANW	58.20	37.18	1386.74	0.000	57.73	35.36	417.47	0.000	58.87	38.33	373.93	0.000	59.53	38.37	145.95	0.000	57.48	36.91	387.85	0.000
ASU	34.54	29.02	111.72	0.000	32.38	25.16	60.35	0.000	33.73	29.21	26.01	0.000	36.90	32.06	11.90	0.001	36.20	28.43	67.26	0.000
SHU	71.44	66.83	122.08	0.000	72.02	66.76	53.37	0.000	72.05	68.55	18.86	0.000	74.54	68.70	29.13	0.000	69.00	64.81	30.57	0.000
C ₁	11.59	11.77	0.18	0.669	9.64	8.86	1.39	0.242	10.96	11.29	0.57	0.452	12.50	14.66	1.98	0.164	13.33	11.56	5.77	0.018
C ₂	20.69	18.36	21.71	0.000	18.35	14.68	19.21	0.000	20.32	17.99	13.87	0.000	22.83	23.48	0.12	0.731	21.40	17.87	18.83	0.000
C ₃	31.37	25.78	101.29	0.000	28.72	24.08	44.08	0.000	31.82	34.16	45.07	0.000	34.16	30.81	1.49	0.226	30.81	24.92	49.76	0.000
C ₄	45.71	36.06	234.26	0.000	42.69	32.19	81.62	0.000	45.12	35.75	108.11	0.000	51.39	42.40	12.05	0.001	45.53	34.78	143.26	0.000
CL	17.16	9.07	511.99	0.000	15.72	7.31	139.50	0.000	17.60	8.06	151.94	0.000	17.71	10.13	77.75	0.000	17.71	9.69	193.85	0.000
S+C	9.87	-0.06	1210.11	0.000	9.58	-0.01	267.40	0.000	11.10	-0.74	383.63	0.000	10.17	0.29	184.80	0.000	8.55	0.45	284.36	0.000

Table A3. Sexual Dimorphism Index (SDI) for all traits, calculated as $[(F-M)/M] \times 100$ (as in Willemssen & Hailey, 2003): a) SDI in size, based on means obtained in ANOVA; b) SDI in shape, based on adjusted means from ANCOVA (calculated for a pooled sample and for every population separately). Differences larger than 30% are given in **bold**; differences ranging from 20% to 30% are given in *italic* (abbreviations the same as in Tables A1 and A2).

a)						b)					
	Pooled	KO	PC	PB	TS		Pooled	KO	PC	PB	TS
GENERAL						GENERAL					
SCL	15.68	13.95	11.99	17.87	18.19	CCL	-3.95	-4.48	-4.70	-4.11	-4.70
CCL	9.60	7.93	6.67	11.13	11.73	MCW	-3.11	-2.87	-3.56	-2.30	-3.56
MCW	9.66	8.64	6.73	10.98	11.16	MaxCW	-7.37	-8.20	-8.25	-8.77	-8.25
MaxCW	6.35	4.63	2.85	6.92	7.77	CCW	0.81	-0.08	1.29	2.55	1.29
CCW	13.34	11.38	10.88	15.23	15.29	MPL	13.40	14.74	13.62	12.57	13.62
MPL	27.53	27.33	<i>24.84</i>	<i>28.14</i>	29.71	MaxPL	8.45	8.74	8.58	8.07	8.58
MaxPL	22.94	22.19	<i>20.14</i>	<i>23.78</i>	24.59	PW ₆	-5.27	-3.79	-5.97	-4.00	-5.97
PW ₆	7.79	8.01	4.85	9.33	8.90	MaxPW	-6.67	-6.36	-7.40	-5.46	-7.40
MaxPW	6.47	6.28	3.21	8.29	7.32	TLC	0.70	0.70	0.78	0.66	0.78
TLC	14.87	13.77	11.83	16.61	16.56	MBC	-0.97	1.14	-2.18	-0.39	-2.18
MBC	10.47	10.11	7.83	12.32	12.01	SH	3.67	1.68	5.35	5.13	5.35
SH	15.46	13.14	14.90	15.73	18.25	BL	22.42	<i>24.31</i>	<i>23.94</i>	<i>22.79</i>	<i>23.94</i>
BL	37.76	38.64	35.19	39.15	38.72	FLL	-7.36	-7.00	-6.13	-7.84	-6.13
FLL	4.62	4.71	3.08	5.34	6.49	HLL	-5.10	-6.69	-4.47	-5.06	-4.47
HLL	7.24	6.87	4.48	8.91	8.25	HL	-6.72	-6.05	-6.92	-6.70	-6.92
HL	1.74	1.74	-0.27	3.14	4.07	SL	-4.36	-4.06	-4.96	-7.87	-4.96
SL	3.45	4.08	1.31	1.45	5.13	HW	-5.54	-3.58	-5.95	-7.09	-5.95
HW	4.15	6.16	1.61	3.42	5.36	HH	-5.80	-4.59	-6.37	-6.05	-6.37
HH	3.00	4.38	0.66	3.46	4.27	TL	-45.41	-48.41	-48.60	-44.61	-48.60
TL	-34.75	-39.00	-39.40	-32.83	-32.85	Weight	5.19	5.29	11.44	4.88	11.44
Weight	50.07	49.53	43.72	50.65	51.04	ADDITIONAL					
ADDITIONAL						WV ₂	6.73	8.15	8.31	9.81	8.31
WV ₂	18.32	17.87	18.06	20.67	19.88	WV ₃	7.66	8.96	8.72	11.38	8.72
WV ₃	20.72	<i>20.03</i>	18.50	23.90	22.70	WV ₄	-5.00	-3.11	-5.66	-2.61	-5.66
WV ₄	7.55	8.19	4.82	9.82	9.55	PC	-87.78	-95.01	-93.98	-78.39	-93.98
PC	-77.65	-88.33	-84.81	-65.37	-75.33	GSL	2.58	5.19	1.86	2.56	1.86
GSL	17.51	17.96	14.53	18.90	20.55	HSL	4.62	6.72	0.43	5.78	0.43
HSL	15.34	15.43	11.43	16.30	17.95	PSL	15.29	<i>25.82</i>	16.02	18.25	16.02
PSL	26.07	33.60	23.98	32.91	<i>26.40</i>	AbSL	23.15	<i>23.69</i>	25.33	19.68	25.33
AbSL	37.55	35.93	35.08	36.91	39.43	FSL	-10.74	-9.58	-11.02	-5.42	-11.02
FSL	3.41	1.73	1.72	11.21	4.11	AnSL	39.02	41.04	34.81	44.01	34.81
AnSL	52.43	56.42	45.49	56.22	56.80	ANW	-36.11	-38.73	-35.02	-35.48	-35.02
ANW	-27.00	-30.05	-25.71	-24.34	-27.03	ASJ	-16.10	-22.71	-13.18	-15.45	-13.18
ASJ	5.10	-1.51	-1.50	10.23	6.15	SHP	-6.48	-7.36	-4.82	-7.71	-4.82
SHP	6.22	6.35	5.28	7.34	7.19	C ₁	0.99	-9.54	3.20	11.70	3.20
C ₁	38.93	21.04	23.20	<i>43.18</i>	<i>41.70</i>	C ₂	-11.70	-21.69	-11.31	0.26	-11.31
C ₂	19.96	4.72	8.52	22.95	<i>25.84</i>	C ₃	-18.20	-25.28	-17.21	-9.54	-17.21
C ₃	7.35	-4.18	-1.08	11.44	14.32	C ₄	-21.39	-25.64	-20.58	-18.62	-20.58
C ₄	0.99	-5.94	-5.94	1.12	4.93	CL	-46.57	-53.08	-54.08	-41.53	-54.08
CL	-34.20	-43.74	-42.48	-28.48	-30.30	ScC	-100.47	-99.70	-106.64	-97.29	-106.64
ScC	-94.80	-95.92	-97.38	-94.98	-92.69						

Table A4. ANOVA of separate characters within sexes, among localities (KO=Konjsko, PV=Pčinja River valley, PB=Prolom Banja, TS=Trstenik; df=3): general and additional traits.

GENERAL		Females						Males					
Locality	KO	PV	PB	TS	<i>F</i>	<i>p</i>	KO	PV	PB	TS	<i>F</i>	<i>p</i>	
SCL	195.9	202.7	214.1	199.1	15.90	0.000	172.0	181.1	181.6	167.4	10.69	0.000	
CCL	248.6	255.7	269.2	251.9	14.89	0.000	230.0	239.5	242.2	224.0	8.29	0.000	
MCW	142.0	149.8	156.9	147.3	22.20	0.000	130.9	140.5	141.2	131.8	12.09	0.000	
MaxCW	150.0	158.3	167.7	159.8	21.13	0.000	143.5	153.7	156.7	147.5	7.56	0.000	
CCW	254.9	269.5	281.4	262.6	26.34	0.000	228.9	243.4	244.0	226.7	12.04	0.000	
MPL	164.0	167.5	173.3	162.6	12.68	0.000	128.8	134.7	135.5	124.8	11.99	0.000	
MaxPL	177.8	183.2	191.5	179.5	14.23	0.000	145.7	152.8	154.7	143.4	9.37	0.000	
PW ₆	127.6	133.5	138.9	130.1	16.36	0.000	118.4	127.4	126.9	118.8	11.26	0.000	
MaxPW	130.7	136.5	143.4	134.8	17.55	0.000	123.1	132.3	132.3	124.7	9.04	0.000	
TLC	487.8	502.4	527.2	493.5	15.22	0.000	428.9	449.2	452.3	420.8	9.02	0.000	
MBC	405.0	407.5	426.0	399.1	13.07	0.000	367.6	379.8	379.0	354.4	7.22	0.000	
SH	98.6	101.0	103.7	97.3	11.57	0.000	87.2	87.9	89.6	81.9	11.07	0.000	
BL	85.3	88.2	91.3	85.0	15.03	0.000	61.6	65.6	65.5	60.9	13.16	0.000	
FLL	46.8	48.6	49.2	46.5	9.42	0.000	44.8	47.1	46.7	43.4	8.55	0.000	
HLL	55.0	56.8	59.3	56.0	11.46	0.000	51.6	54.3	54.4	51.4	5.52	0.001	
HL	32.5	33.5	33.6	32.3	9.58	0.000	32.0	33.5	32.6	30.9	12.87	0.000	
SL	27.3	26.0	27.2	26.2	6.84	0.000	26.3	25.7	26.8	24.9	6.70	0.000	
HW	28.1	27.9	28.7	27.3	9.50	0.000	26.5	27.4	27.7	25.8	8.68	0.000	
HH	21.6	21.5	21.9	21.0	8.24	0.000	20.7	21.3	21.2	20.0	8.77	0.000	
TL	30.8	30.8	36.0	33.9	11.95	0.000	50.6	50.1	53.5	50.1	1.26	0.291	
Weight	1558.0	1686.4	1963.9	1585.8	21.51	0.000	1044.1	1190.8	1302.7	1031.8	9.56	0.000	
<i>n</i>	48	35	49	96			54	59	23	60			
ADDITIONAL		Females						Males					
WV ₂	41.5	42.3	43.2	39.7	14.92	0.000	35.1	36.0	35.6	33.1	12.01	0.000	
WV ₃	47.4	47.9	50.0	45.8	14.38	0.000	39.4	40.6	40.2	37.3	10.87	0.000	
WV ₄	42.2	41.5	43.3	40.0	11.01	0.000	39.0	39.7	39.3	36.5	8.20	0.000	
PC	0.7	0.9	2.1	1.4	11.86	0.000	5.79	5.93	5.87	5.60	0.39	0.761	
GSL	24.7	25.9	26.1	24.7	3.95	0.009	20.9	22.7	21.9	20.5	5.81	0.001	
HSL	25.9	26.7	27.6	26.2	3.68	0.013	22.4	24.1	23.8	22.2	6.46	0.000	
PSL	16.3	14.4	14.5	12.7	32.27	0.000	11.9	11.7	11.0	10.0	7.84	0.000	
AbSL	59.8	59.4	63.1	59.4	6.80	0.000	43.8	44.3	45.9	42.6	4.44	0.005	
FSL	12.1	12.0	12.9	11.0	6.83	0.000	11.7	11.9	11.6	10.6	3.83	0.011	
AnSL	25.1	25.7	25.3	25.2	0.36	0.785	15.8	17.9	16.2	16.0	13.02	0.000	
ANW	38.5	41.4	42.4	39.8	7.87	0.000	55.1	55.6	55.7	54.6	0.32	0.813	
ASJ	28.4	31.2	36.3	33.3	18.15	0.000	28.8	31.7	32.8	31.4	5.09	0.002	
SHP	71.7	72.1	74.3	69.2	11.84	0.000	67.2	68.6	69.1	64.6	4.86	0.003	
C ₁	10.1	12.3	16.2	14.7	21.98	0.000	8.3	10.0	11.2	10.3	10.23	0.000	
C ₂	17.0	19.9	25.8	22.0	28.73	0.000	16.1	18.4	20.8	17.4	8.06	0.000	
C ₃	24.8	28.9	34.9	29.8	27.78	0.000	25.8	29.2	31.0	26.0	9.11	0.000	
C ₄	36.3	39.2	47.6	41.2	26.69	0.000	38.6	41.7	46.6	39.2	7.92	0.000	
CL	8.3	9.4	11.7	11.3	26.05	0.000	14.7	16.2	16.2	16.2	2.32	0.077	
ScC	0.4	0.3	0.5	0.6	0.82	0.485	9.30	9.93	9.97	8.39	2.85	0.038	
<i>n</i>	52	34	49	96			56	59	23	57			

Table A5. ANCOVA of separate characters, within sexes, among localities (SCL as the covariate; df=3); analysis repeated for rear parts of the shell with tail length, TL as the covariate (KO=Konjsko, PV=Pčinja River valley, PB=Prolom Banja, TS=Trstenik): General and Additional traits.

GENERAL		Females						Males					
Locality	KO	PV	PB	TS	<i>F</i>	<i>p</i>	KO	PV	PB	TS	<i>F</i>	<i>p</i>	
CCL	256.4	256.0	256.9	256.1	0.21	0.887	234.4	232.4	234.5	234.3	1.39	0.248	
MCW	146.0	150.0	150.4	149.5	10.40	0.000	133.2	136.7	137.0	137.3	13.43	0.000	
MaxCW	154.9	158.5	159.9	162.5	30.10	0.000	146.5	148.8	151.4	154.6	25.91	0.000	
CCW	261.5	269.7	270.9	266.2	11.91	0.000	232.9	237.2	237.1	235.8	3.4118	0.019	
MPL	168.6	167.6	166.0	165.1	8.52	0.000	130.9	131.3	131.8	129.7	1.4859	0.220	
MaxPL	183.2	183.4	182.9	182.5	0.58	0.628	148.3	148.7	150.2	149.4	1.33	0.265	
PW ₆	131.4	133.6	132.9	132.2	2.31	0.077	120.6	123.8	123.0	124.1	9.85	0.000	
MaxPW	134.6	136.7	137.2	136.9	4.07	0.008	125.6	128.4	128.0	130.5	13.71	0.000	
TLC	503.3	503.0	502.6	502.0	0.53	0.663	436.9	436.4	438.4	439.5	2.30	0.079	
MBC	414.9	407.9	410.4	404.5	5.89	0.001	374.0	369.6	367.9	369.3	1.14	0.335	
SH	101.1	101.1	99.7	98.7	5.88	0.001	88.5	85.9	87.4	84.8	7.18	0.000	
BL	87.9	88.3	87.2	86.4	7.32	0.000	62.5	64.1	63.9	63.0	3.27	0.022	
FLL	48.1	48.7	47.2	47.2	5.92	0.001	45.6	45.8	45.3	45.3	0.40	0.753	
HLL	56.5	56.9	56.9	56.8	0.23	0.874	52.6	52.8	52.7	53.7	1.93	0.126	
HL	33.1	33.5	32.7	32.6	5.95	0.001	32.4	32.8	31.8	31.9	4.72	0.003	
SL	27.8	26.0	26.4	26.5	11.68	0.000	26.6	25.2	26.2	25.6	8.47	0.000	
HW	28.7	27.9	27.7	27.6	16.47	0.000	26.8	26.8	27.0	26.7	0.44	0.724	
HH	22.1	21.5	21.2	21.2	15.41	0.000	21.0	20.8	20.8	20.6	1.62	0.187	
TL	32.2	30.8	33.9	34.6	8.36	0.000	51.7	48.2	51.5	52.9	6.11	0.001	
Weight	1689.7	1691.5	1755.1	1657.7	6.47	0.000	1099.5	1102.6	1206.7	1160.5	10.88	0.000	
<i>n</i>	48	35	49	96			54	59	23	60			
ADDITIONAL		Females						Males					
WV ₂	42.5	42.4	41.4	40.3	12.82	0.000	35.6	35.3	34.8	34.1	6.52	0.000	
WV ₃	48.6	48.0	47.8	46.6	8.79	0.000	40.1	39.7	39.2	38.5	5.31	0.002	
WV ₄	43.3	41.7	41.3	40.7	13.10	0.000	39.8	38.6	38.1	37.9	6.07	0.001	
PC	0.8	0.9	1.8	1.5	6.41	0.000	6.0	5.7	5.6	6.0	0.67	0.573	
GSL	25.4	26.0	24.9	25.2	1.62	0.186	21.3	22.0	21.2	21.4	0.98	0.403	
HSL	26.4	26.8	26.7	26.6	0.14	0.935	22.8	23.6	23.2	22.9	1.29	0.281	
PSL	16.6	14.4	14.1	12.8	34.46	0.000	12.1	11.4	10.6	10.5	6.68	0.000	
AbSL	61.5	59.7	60.0	60.5	2.67	0.049	44.4	43.4	44.9	43.8	1.97	0.121	
FSL	12.4	12.0	12.5	11.2	4.03	0.008	12.0	11.4	11.2	11.1	2.05	0.109	
AnSL	25.7	25.8	24.3	25.6	2.56	0.056	16.1	17.6	15.8	16.4	8.52	0.000	
ANW	39.3	41.6	40.8	40.3	2.29	0.079	56.4	53.8	53.7	57.1	7.20	0.000	
ASJ	30.2	31.5	33.1	34.4	14.37	0.000	29.8	30.4	31.4	33.2	9.88	0.000	
SHP	73.5	72.4	71.0	70.4	14.81	0.000	68.7	66.6	66.8	67.4	5.22	0.002	
C ₁	11.1	12.4	14.4	15.3	18.46	0.000	8.7	9.5	10.6	11.0	14.18	0.000	
C ₂	18.3	20.1	23.4	22.9	19.83	0.000	16.8	17.4	19.7	18.8	7.05	0.000	
C ₃	26.4	29.2	32.0	30.9	16.32	0.000	26.8	27.9	29.5	27.9	2.96	0.034	
C ₄	38.4	39.5	43.9	42.6	15.44	0.000	40.1	39.6	44.4	42.0	7.49	0.000	
CL	8.7	9.4	11.0	11.5	22.97	0.000	15.2	15.5	15.5	17.1	4.17	0.007	
ScC	0.3	0.3	0.6	0.5	1.21	0.309	9.6	9.5	9.5	9.0	0.49	0.688	
<i>n</i>	52	34	49	96			56	59	23	57			
TL as the covariate													
AnSL	25.31	26.10	24.94	25.05	1.13	0.336	15.75	17.94	16.10	15.96	14.05	0.000	
ANW	38.83	42.02	41.79	39.51	6.88	0.000	55.20	56.18	54.43	54.92	0.90	0.441	