

APPENDIX 1

Suppl. table 1. Measurements (in mm) of apterous viviparous females of *Knautia* feeding *Aphis* species.

*measurements of ANT III for specimens with 5-segmented antennae; **measurements of ANT III for specimens with 6-segmented antennae.

Character	<i>Aphis confusa</i>	<i>Aphis holmani</i> sp. nov.	<i>Aphis longini</i>	<i>Aphis thomasi</i>
BL	1.75–2.07	1.50–2.00	2.00–2.10	1.20–1.55
MAX W	0.87–1.32	0.85–1.25	1.25–1.32	0.71–0.92
HW	0.36–0.45	0.38–0.44	0.48–0.49	0.35–0.38
ANT	0.94–1.21	0.85–1.20	1.35–1.41	0.59–0.78
ANT III	0.22–0.32	0.29–0.38*	0.17	0.13–0.15*
		0.24–0.33**		0.13–0.19**
ANT IV	0.14–0.19	0.13–0.19	0.19–0.21	0.06–0.10
ANT V	0.14–0.18	0.14–0.19	0.16–0.19	0.09–0.11
ANT VI	0.32–0.39	0.30–0.37	0.55–0.58	0.22–0.31
BASE	0.08–0.11	0.10–0.13	0.11–0.12	0.070–0.080
PT	0.24–0.28	0.20–0.24	0.43–0.47	0.15–0.24
URS	0.10–0.12	0.13–0.16	0.15–0.16	0.105–0.125
III FEMUR	0.37–0.50	0.35–0.49	0.48–0.50	0.23–0.34
III FEMUR LS	0.030–0.035	0.045–0.050	0.050–0.055	0.010–0.011
PHT	0.035–0.050	0.050–0.055	0.050	0.010–0.012
III TIBIA	0.69–0.93	0.64–0.94	0.92–0.95	0.44–0.60
HT II	0.09–0.12	0.085–0.100	0.13–0.14	0.075–0.095
SIPH	0.24–0.38	0.18–0.27	0.20–0.22	0.20–0.24
CAUDA	0.15–0.21	0.15–0.18	0.18–0.18	0.13–0.15
GPL	0.10–0.13	0.11–0.12	0.14–0.16	0.090–0.100
GPW	0.20–0.26	0.22–0.43	0.27–0.29	0.19–0.20

Suppl. table 2. Measurements (in mm) of known alate viviparous females of *Knautia* feeding *Aphis* species.

Character	<i>Aphis confusa</i>	<i>Aphis holmani</i> sp. nov.	<i>Aphis thomasi</i>
BL	1.55–1.70	1.20–1.57	1.42–1.50
MAX W	0.72–0.80	0.50–0.66	0.50–0.60
HW	0.36–0.37	0.30–0.34	0.33–0.35
ANT	1.015–1.055	0.920–1.035	0.92–0.94
ANT III	0.22–0.26	0.21–0.26	0.22–0.23
ANT IV	0.15–0.18	0.13–0.15	0.13
ANT V	0.15–0.17	0.14–0.15	0.13–0.15
ANT VI	0.34–0.39	0.34–0.36	0.33
BASE	0.10–0.11	0.100–0.105	0.095–0.100
PT	0.24–0.29	0.24–0.26	0.23–0.24
URS	0.10–0.11	0.125–0.135	0.105–0.110
III FEMUR	0.38–0.42	0.34–0.40	0.31–0.32
III FEMUR LS	0.022–0.025	0.032–0.035	0.010–0.012
PHT	0.015–0.030	0.032–0.037	0.011–0.012
III TIBIA	0.75–0.81	0.72–0.80	0.61–0.65
HT II	0.085–0.100	0.080–0.090	0.085–0.090
SIPH	0.21–0.23	0.12–0.15	0.12–0.17
CAUDA	0.13–0.15	0.10–0.11	0.105–0.110
GPL	0.09–0.10	0.08–0.10	0.08–0.10
GPW	0.18–0.20	0.18–0.22	0.18–0.20

Suppl. table 3. Measurements (in mm) of available for examination oviparous females of *Knautia* feeding *Aphis* species.

Character	<i>Aphis confusa</i>	<i>Aphis holmani</i> sp. nov.	<i>Aphis thomasi</i>
BL	1.45–1.52	1.45–1.60	1.25–1.52
MAX W	0.70–0.79	0.80–0.92	0.60–1.02
HW	0.33–0.37	0.36–0.38	0.30–0.38
ANT	0.70–0.73	0.77–0.85	0.57–0.68
ANT III	0.12–0.14	0.13–0.16	0.10–0.12
ANT IV	0.09–0.10	0.11–0.13	0.06–0.09
ANT V	0.11–0.12	0.12–0.14	0.08–0.09
ANT VI	0.28	0.29–0.32	0.23–0.28
BASE	0.08	0.08	0.075–0.085
PT	0.20	0.21–0.24	0.16–0.20
URS	0.09–0.10	0.11	0.10–0.11
III FEMUR	0.26–0.30	0.29–0.32	0.20–0.26
III FEMUR LS	0.025–0.035	0.04–0.05	0.007–0.010
PHT	0.027–0.045	0.037–0.050	0.007–0.010
III TIBIA	0.46–0.51	0.54–0.60	0.38–0.46
HT II	0.075–0.080	0.08–0.09	0.075–0.08
SIPH	0.16–0.18	0.13–0.14	0.12–0.16
CAUDA	0.13–0.14	0.12–0.13	0.11–0.13
GPL	0.10–0.11	0.10–0.12	0.12–0.13
GPW	0.23–0.25	0.24–0.28	0.20–0.25

Suppl. table 4. Measurements (in mm) of available for examination males of *Knautia* feeding *Aphis* species (male of *A. thomasi* with 5-segmented antennae).

Character	<i>Aphis confusa</i>	<i>Aphis holmani</i> sp. nov.	<i>Aphis thomasi</i>
BL	1.00–1.05	0.80–1.07	0.97
MAX W	0.46–0.57	0.43–0.55	0.46
HW	0.31–0.33	0.27–0.34	0.29
ANT	0.76–0.84	0.85–0.93	0.55–0.58
ANT III	0.17	0.17–0.18	0.155–0.165
ANT IV	0.10–0.12	0.14–0.16	0.08
ANT V	0.13–0.14	0.14–0.15	–
ANT VI	0.28–0.31	0.30–0.33	0.23–0.24
BASE	0.07–0.08	0.07–0.08	0.06–0.07
PT	0.20–0.22	0.23–0.25	0.16–0.17
URS	0.085	0.09–0.10	0.10
III FEMUR	0.23–0.25	0.26–0.27	0.21
III FEMUR LS	0.025–0.032	0.032–0.040	0.0075
PHT	0.040–0.045	0.032–0.037	0.01
III TIBIA	0.45–0.50	0.52–0.56	0.39
HT II	0.065–0.070	0.070–0.075	0.07
SIPH	0.10–0.11	0.08–0.09	0.10–0.11
CAUDA	0.09–0.10	0.09–0.10	0.10