

Supplementary Materials

for

Automated Insect Detection and Biomass Monitoring via AI and Electrical Field Sensor Technology

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S1: Data processing algorithm

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1: Input: 1-minute audio signals from cloud storage
2: Output: Estimated insect biomass
3: Step 1: Load Audio
4: Load raw audio data
5: Step 2: Power line Noise Cancellation
6: if power line noise is detected then
7:     Apply filtering to remove it
8: end if
9: Step 3: Signal Segmentation
10: Divide the signal into  $N = 60$  segments
11: for  $i = 1$  to  $N$  do
12:     Step 4.1: CNN-based Insect Presence Prediction
13:     Pass segment  $i$  to the CNN to compute a prediction score
14:     if insect presence is indicated then
15:         Step 4.2:  $F_0$  Estimation
16:         Estimate  $F_0$  and compute its mean ( $\mu_{f_0}^i$ ) and standard deviation ( $\sigma_{f_0}^i$ )
17:         if  $\mu_{f_0}^i$  and  $\sigma_{f_0}^i$  meet threshold criteria then
18:             Mark segment  $i$  as a valid insect event
19:         else
20:             Discard segment  $i$ 
21:         end if
22:     else
23:         Discard segment  $i$ 
24:     end if
25: end for
26: Step 5: Event Aggregation
27: Group adjacent valid events
28: Step 6: Data Collection
29: Aggregate data from valid events
30: Step 7: Biomass Estimation
31: Apply biomass model to compute the final estimate
    return Estimated insect biomass
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S2: Reference table for WBF and body mass

Reference table containing insect body mass (g), state of specimens when weighed (dry/wet/fresh), and their wing beat frequency (WBF) for various species, genera, families, and orders of insects. The † sign denotes internal FaunaPhotonics measurements. The table is ordered by increasing WBF.

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Lepidoptera	Pieridae	<i>Pieris napi</i>	0.037 ³⁶		6 ³⁶	Yes
Lepidoptera					6 ³⁷	Yes
Lepidoptera	Saturniidae	<i>Saturnia pyri</i>	1.89 ³⁶		8 ³⁶	Yes
Lepidoptera	Saturniidae	<i>Philosamia cynthia</i>	0.605 ³⁶		8 ³⁶	Yes
Lepidoptera	Papilionidae	<i>Papilio podalirius</i>	0.3 ³⁶		10 ³⁶	Yes
Lepidoptera	Nymphalidae	<i>Argynnis pandora</i>	0.278 ³⁶		10 ³⁶	Yes
Lepidoptera	Pieridae	<i>Pieris brassicae</i>	0.144 ³⁶		10 ³⁶	Yes
Lepidoptera	Nymphalidae	<i>Vanessa atalanta</i>	0.134 ³⁶		10 ³⁶	Yes
Lepidoptera	Pieridae	<i>Pieris brassicae</i>	0.127 ³⁶		12 ³⁶	Yes
Lepidoptera	Pieridae	<i>Pieris brassicae</i>	0.0691 ³⁸		12 ³⁸	Yes
Lepidoptera	Saturniidae	<i>Automeris belti</i>	0.665 ³⁶		14 ³⁶	No
Lepidoptera	Nymphalidae	<i>Aphantopus hyperantus</i>	0.0374 ³⁸		16 ³⁸	Yes
Lepidoptera	Saturniidae	<i>Automeris jaciinda</i>	0.298 ³⁶		17 ³⁶	No
Lepidoptera	Saturniidae	<i>Eacles imperialis</i>	1.105 ³⁶		17 ³⁶	No
Lepidoptera	Saturniidae	<i>Automeris fieldi</i>	0.394 ³⁶		17 ³⁶	No
Odonata	Calopterygidae	<i>Calopteryx virgo</i>	0.1457 ³⁸		17 ³⁸	Yes
Lepidoptera	Nymphalidae	<i>Vanessa io</i>	0.195 ³⁶		18 ³⁶	Yes
Lepidoptera	Bombycidae	<i>Bombyx mori</i>	0.595 ³⁶		18 ³⁶	No
Odonata					18 ³⁷	Yes
Lepidoptera	Saturniidae	<i>Automeris zugana</i>	0.428 ³⁶		19 ³⁶	No
Neuroptera			0.009 ³⁹	Wet	19 ³⁷	Yes
Odonata	Calopterygidae	<i>Calopteryx splendens</i>	0.1092 ³⁸		19 ³⁸	Yes
Lepidoptera	Nymphalidae	<i>Vanessa cardui</i>	0.173 ³⁶		20 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Chelonia villica</i>	0.165 ³⁶		20 ³⁶	Yes
Odonata	Aeshnidae	<i>Anax junius</i>	0.82 ³⁶		20 ³⁶	No
Odonata	Libellulidae	<i>Libellula depressa</i>	0.245 ³⁶		20 ³⁶	Yes
Odonata	Libellulidae	<i>Orthetrum coerulescens</i>	0.248 ³⁶		20 ³⁶	Yes
Odonata	Aeshnidae	<i>Aeshna sp.</i>	0.611 ³⁶		20 ³⁶	Yes
Lepidoptera	Lepidoptera	<i>Rhodocera rhamni</i>	0.107 ³⁶		21 ³⁶	Yes
Odonata	Libellulidae	<i>Libellula quadrimaculata</i>	0.307 ³⁶		21 ³⁶	Yes
Odonata	Libellulidae	<i>Sympetrum meridionale</i>	0.281 ³⁶		21 ³⁶	Yes
Odonata	Aeshnidae	<i>Nasiaeschna pentacantha</i>	0.43 ³⁶		21 ³⁶	No

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Lepidoptera	Saturniidae	<i>Hyperchiria nausica</i>	0.2 ³⁶		21 ³⁶	No
Odonata	Libellulidae	<i>Pantala flavescens</i>	0.308 ³⁶		22 ³⁶	Yes
Lepidoptera	Notodontidae	<i>Notodonta dictaea</i>	0.201 ³⁶		22 ³⁶	Yes
Lepidoptera	Satyridae	<i>Coenonympha pamphilus</i>	0.046 ³⁶		22 ³⁶	Yes
Lepidoptera	Saturniidae	<i>Syssphinx molina</i>	1.63 ³⁶		22 ³⁶	No
Lepidoptera	Sphingidae	<i>Manduca corallina</i>	1.6 ³⁶		22 ³⁶	No
Odonata	Aeshnidae	<i>Anax formosus</i>	1.2 ³⁶		22 ³⁶	No
Lepidoptera	Geometridae	<i>Geometra papilionaria</i>	0.1071 ³⁸		22 ³⁸	Yes
Lepidoptera	Saturniidae	<i>Automerina auletes</i>	0.72 ³⁶		23 ³⁶	No
Odonata	Libellulidae	<i>Tramea Carolina</i>	0.358 ³⁶		23 ³⁶	No
Lepidoptera	Sphingidae	<i>Erinnyis ello</i>	1.21 ³⁶		23 ³⁶	No
Lepidoptera	Saturniidae	<i>Automeris hamata</i>	0.564 ³⁶		23 ³⁶	No
Lepidoptera	Saturniidae	<i>Adeloneivaia boisduvalii</i>	0.839 ³⁶		24 ³⁶	No
Odonata	Libellulidae	<i>Pachydiplax longipennis</i>	0.178 ³⁶		24 ³⁶	No
Lepidoptera	Noctuidae	<i>Triphaena pronuba</i>	0.485 ³⁶		24 ³⁶	Yes
Neuroptera			0.009 ³⁹	Wet	24 ³⁷	Yes
Lepidoptera	Noctuidae	<i>Venilia macularia</i>	0.021 ³⁶		25 ³⁶	Yes
Odonata	Macromiidae	<i>Macromia taeniolata</i>	0.93 ³⁶		25 ³⁶	No
Odonata	Corduliidae	<i>Somatochlora tenebrosa</i>	0.352 ³⁶		25 ³⁶	No
Neuroptera	Chrysopidae	<i>Chrysoperla carnea</i>	0.0065 ³⁸		25 ³⁸	Yes
Blattodea	Blattidae	<i>Periplaneta americana</i>	1.555 ³⁶		26 ³⁶	Yes
Odonata	Libellulidae	<i>Tramea lacerata</i>	0.382 ³⁶		26 ³⁶	No
Odonata	Libellulidae	<i>Libellula pulchella</i>	0.508 ³⁶		26 ³⁶	No
Odonata	Corduliidae	<i>Tetragoneuria cynosura</i>	0.165 ³⁶		27 ³⁶	No
Lepidoptera	Lymantriidae	<i>Lymantria clispar</i>	0.101 ³⁶		27 ³⁶	Yes
Lepidoptera	Nymphalidae	<i>Polygonia c-album</i>	0.1145 ³⁸		27 ³⁸	Yes
Trichoptera	Phryganeidae	<i>Phryganea grandis</i>	0.159 ³⁸		27 ³⁸	Yes
Trichoptera			0.159 ³⁸		27 ³⁸	Yes
Lepidoptera	Lymantriidae	<i>Calliteara pudibunda</i>	0.237 ³⁶		28 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Manduca corallina</i>	1.618 ³⁶		28 ³⁶	No
Odonata	Libellulidae	<i>Erythemis simplicicollis</i>	0.176 ³⁶		28 ³⁶	No
Mecoptera	Panorpidae	<i>Panorpa communis</i>	0.03 ³⁶		28 ³⁶	Yes
Odonata					28 ³⁷	Yes
Lepidoptera	Sphingidae	<i>Manduca nistica</i>	2.704 ³⁶		29 ³⁶	No
Lepidoptera	Sphingidae	<i>Acherontia atropos</i>	2.2403 ³⁸		29 ³⁸	Yes
Lepidoptera	Geometridae	<i>Xanthorhoe montanata</i>	0.0133 ³⁸		29 ³⁸	Yes
Lepidoptera	Sphingidae	<i>Laothoe populi</i>	0.8449 ³⁸		29 ³⁸	Yes

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Odonata	Macromiidae	<i>Macromia georgina</i>	0.545 ³⁶	Wet	30 ³⁶	No
Neuroptera			0.009 ³⁹		30 ³⁷	Yes
Lepidoptera	Noctuidae	<i>Hypena proboscidalis</i>	0.0565 ³⁸		30 ³⁸	Yes
Odonata	Libellulidae	<i>Plathemis lydia</i>	0.365 ³⁶		31 ³⁶	No
Odonata	Aeshnidae	<i>Aeshna grandis</i>	1.2296 ³⁸	Fresh	31 ³⁸	Yes
Lepidoptera	Saturniidae	<i>Hylesia spp.</i>	0.168 ³⁶		32 ³⁶	
Lepidoptera	Geometridae	<i>Idaea aversata</i>	0.0303 ³⁸		32 ³⁸	Yes
Odonata			0.27 ³⁸		32 ³⁸	Yes
Lepidoptera	Pterophoridae	<i>Pterophorus pentadactyla</i>	0.0114 ³⁸		32 ³⁸	Yes
Odonata	Aeshnidae	<i>Brachytron pratense</i>	0.557 ³⁶		33 ³⁶	Yes
Coleoptera	Lucanidae	<i>Ljicanus cervus</i>	2.6 ³⁶		33 ³⁶	No
Lepidoptera	Sphingidae	<i>Manduca lefeburei</i>	0.571 ³⁶		33 ³⁶	No
Lepidoptera	Erebidae	<i>Eilema lurideola</i>	0.0258 ³⁸		33 ³⁸	Yes
Lepidoptera	Plutellidae	<i>Plutella xylostella</i>	0.0019 ⁴⁰		35†	Yes
Odonata	Coenagrionidae	<i>Coenagrion puella</i>	0.0316 ³⁸		36 ³⁸	Yes
Odonata	Coenagrionidae	<i>Coenagrion puella</i>	0.0374 ³⁸		36 ³⁸	Yes
Odonata	Coenagrionidae	<i>Coenagrion puella</i>	0.0277 ³⁸		37 ³⁸	Yes
Odonata	Aeshnidae	<i>Aeshna mixta</i>	0.53 ³⁶		38 ³⁶	Yes
Odonata					38 ³⁷	Yes
Odonata	Libellulidae	<i>Orthetrum cancellatum</i>	0.4176 ³⁸		38 ³⁸	Yes
Lepidoptera	Sphingidae	<i>Oryba achemenides</i>	2.809 ³⁶		39 ³⁶	No
Lepidoptera			0.203 ³⁸		39 ³⁸	Yes
Lepidoptera	Crambidae	<i>Chrysoteuchia culmella</i>	0.109 ³⁸		40 ³⁸	Yes
Odonata	Libellulidae	<i>Sympetrum striolatum</i>	0.1595 ³⁸		40 ³⁸	Yes
Lepidoptera	Crambidae	<i>Anania hortulata</i>	0.0293 ³⁸		40 ³⁸	Yes
Lepidoptera	Noctuidae	<i>Agrostis exclanationis</i>	0.133 ³⁶		41 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Madoryx oecus</i>	1.699 ³⁶		41 ³⁶	No
Lepidoptera	Saturniidae	<i>Adeloneivaia subangulata</i>	0.487 ³⁶		41 ³⁶	No
Lepidoptera	Geometridae	<i>Pasiphila rectangulata</i>	0.0107 ³⁸		41 ³⁸	Yes
Odonata	Gomphidae	<i>Ophiogomphus serpentiniis</i>	0.312 ³⁶		42 ³⁶	Yes
Hemiptera	Cicadidae	<i>Cicada sp.</i>	0.752 ³⁶		42 ³⁶	Yes
Lepidoptera	Tortricidae	<i>Adoxophyes orana</i>	0.01532 ⁴¹	Fresh	43†	Yes
Lepidoptera					43 ³⁷	Yes
Lepidoptera	Sphingidae	<i>Xylophones pluto</i>	0.829 ³⁶		45 ³⁶	No
Neuroptera	Hemerobiidae	<i>Wesmaelius subnebulosis</i>	0.0026 ³⁸		45 ³⁸	Yes
Coleoptera	Melolonthidae	<i>Melolontha vulgaris</i>	0.961 ³⁶		46 ³⁶	Yes
Neuroptera	Hemerobiidae	<i>Hemerobius humulinus</i>	0.0021 ³⁸		46 ³⁸	Yes

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Lepidoptera	Noctuidae	<i>Orthosia gothica</i>	0.1253 ³⁸		47 ³⁸	Yes
Diptera	Tipulidae	<i>Tipula gigantea</i>	0.069 ³⁶		48 ³⁶	Yes
Lepidoptera	Noctuidae	<i>Plusia gamma</i>	0.144 ³⁶		48 ³⁶	Yes
Lepidoptera	Zygaenidae	<i>Zygaena filipendulae</i>	0.127 ³⁶		48 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Xylophanes libya</i>	0.559 ³⁶		48 ³⁶	No
Lepidoptera	Sphingidae	<i>Pachygonidia drucei</i>	0.702 ³⁶		48 ³⁶	No
Diptera	Tipulidae				48 ⁴²	Yes
Mecoptera	Panorpidae	<i>Panorpa communis</i>	0.0398 ³⁸		48 ³⁸	Yes
Mecoptera			0.0398 ³⁸		48 ³⁸	Yes
Lepidoptera	Yponomeutidae	<i>Yponomeuta spp.</i>			50†	Yes
Neuroptera	Hemerobiidae	<i>Micromus angulatus</i>	0.0059 ³⁸		50 ³⁸	Yes
Lepidoptera	Tortricidae	<i>Plodia interpunctella</i>	0.004305 ⁴³	Fresh	50†	Yes
Lepidoptera	Noctuidae	<i>Helicoverpa armigera</i>	0.13505 ⁴⁴	Fresh	52†	Yes
Diptera	Tipulidae	<i>Tipula sp.</i>	0.03 ³⁶		52 ³⁶	Yes
Lepidoptera	Tortricidae		0.0055 ³⁸		52 ³⁸	Yes
Neuroptera			0.0035 ³⁸		52 ³⁸	Yes
Lepidoptera	Sphingidae	<i>Deilephila elpenor</i>	0.5281 ³⁸		53 ³⁸	Yes
Lepidoptera	Tortricidae	<i>Pandemis cerasana</i>	0.0124 ³⁸		54 ³⁸	Yes
Neuroptera	Hemerobiidae	<i>Wesmaelius sp.</i>	0.0033 ³⁸		54 ³⁸	Yes
Lepidoptera	Lasiocampidae	<i>Poecilocampa populi</i>	0.112 ³⁶		55 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Enyo ocypete</i>	0.388 ³⁶		56 ³⁶	No
Diptera	Tipulidae				57 ⁴²	Yes
Lepidoptera	Crambidae		0.0059 ³⁸		57 ³⁸	Yes
Lepidoptera	Lasiocampidae	<i>Malacosoma americanum</i>	0.088 ³⁶		58 ³⁶	No
Diptera	Tipulidae	<i>Tipula oleracea</i>			59†	Yes
Diptera	Tipulidae	<i>Tipula sp.</i>	0.0676 ³⁸		59 ³⁸	Yes
Lepidoptera	Zygaenidae	<i>Zygaena sp.</i>	0.0804 ³⁸		60 ³⁸	
Lepidoptera	Sphingidae	<i>Perigonia lusca</i>	0.638 ³⁶		62 ³⁶	No
Hymenoptera	Ichneumonidae	<i>Ophion luteus</i>	0.033 ³⁶		62 ³⁶	Yes
Coleoptera	Melolonthidae	<i>Melolontha vulgaris</i>	0.597 ³⁶		62 ³⁶	Yes
Lepidoptera	Tortricidae	<i>Cydia pomonella</i>	0.0265 ⁴⁵	Fresh	62†	Yes
Lepidoptera	Tortricidae	<i>Pseudargyrotoza conwagana</i>	0.0044 ³⁸		64 ³⁸	Yes
Lepidoptera	Tortricidae	<i>Lobesia abscisana</i>	0.0076 ³⁸		64 ³⁸	Yes
Odonata	Coenagrionidae	<i>Ischnura elegans</i>	0.033 ⁴⁶	Fresh	65†	Yes
Lepidoptera	Tortricidae	<i>Lobesia botrana</i>	0.00655 ⁴⁷	Fresh	66†	Yes
Hemiptera	Tessaratomidae	<i>Tessaratomia javanica</i>	0.926 ³⁶		66 ³⁶	
Diptera	Tipulidae	<i>Nephrotoma quadrifaria</i>	0.0181 ³⁸		67 ³⁸	Yes

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Coleoptera	Cantharidae	<i>Telephorus fuscipes</i>	0.109 ³⁶		72 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Macroglossa stellatarum</i>	0.282 ³⁶		73 ³⁶	Yes
Diptera	Trichoceridae	<i>Trichocera sp.</i>	0.0012 ³⁶		74 ³⁶	Yes
Coleoptera	Chrysomelidae	<i>Agelastica alni</i>	0.03115 ⁴⁸		75†	Yes
Coleoptera	Cantharidae	<i>Rhagonycha fulva</i>	0.0183 ³⁸		75†	Yes
Ephemeroptera	Baetidae	<i>Centroptilum luteolum</i>	0.0027 ³⁸		75 ³⁸	Yes
Ephemeroptera			0.0027 ³⁸		75 ³⁸	Yes
Coleoptera	Scarabaeidae	<i>Amphimallon solstitiale</i>	0.291 ³⁶		78 ³⁶	Yes
Coleoptera	Coccinellidae	<i>Harmonia axyridis</i>	0.0283 ³⁸		79 ³⁸	Yes
Diptera	Tipulidae	<i>Nephrotoma flavescens</i>	0.0118 ³⁸		79 ³⁸	Yes
Coleoptera	Cantharidae	<i>Rhagonycha fulva</i>	0.0183 ³⁸		79 ³⁸	Yes
Hymenoptera	Ichneumonidae	<i>Amblyteles armatorius</i>	0.0569 ⁴⁹		80 ⁴⁹	No
Coleoptera	Cerambycidae		0.142 ³⁶		80 ³⁶	Yes
Lepidoptera	Sphingidae	<i>Macroglossa bombyliformis</i>	0.189 ³⁶		80 ³⁶	Yes
Hemiptera	Aphididae	<i>Acyrtosiphon kondoi</i>	0.000702 ³⁶		81 ³⁶	Yes
Lepidoptera					81 ³⁷	Yes
Lepidoptera	Sphingidae	<i>Macroglossa stellatarum</i>	0.345 ³⁶		85 ³⁶	No
Coleoptera	Chrysomelidae	<i>Psylliodes chrysocephala</i>			85†	Yes
Hymenoptera	Apidae	<i>Exaerete frontalis</i>	0.699 ⁵⁰		86 ⁵⁰	No
Coleoptera	Cetoniidae	<i>Cetonia aurata</i>	0.537 ³⁶		86 ³⁶	Yes
Coleoptera	Cerambycidae	<i>Rutpela maculata</i>	0.1026 ³⁸		86 ³⁸	Yes
Hymenoptera	Apidae	<i>Exaerete frontalis</i>	0.644 ³⁶		87 ³⁶	No
Hymenoptera	Tenthredinidae	<i>Athalia scutellariae</i>	0.0132 ³⁸		87 ³⁸	Yes
Hemiptera	Aphrophoridae	<i>Neophilaenus sp.</i>			89†	Yes
Hymenoptera	Apidae	<i>Bombus lapidarius</i>	0.495 ³⁶		90 ³⁶	Yes
Hymenoptera	Tenthredinidae	<i>Athalia rosae</i>	0.0104 ⁵¹	Fresh	90†	Yes
Diptera	Phoridae		0.0005†	Wet	90 ⁴²	Yes
Hemiptera	Aphididae	<i>Mysus persicae</i>	0.000334 ³⁶		90 ³⁶	Yes
Hemiptera	Aleyrodidae	<i>Aleyrodes proletella</i>	6.3e-05 ⁵²		92†	No
Hemiptera	Pentatomidae	<i>Halyomorpha halys</i>	0.09843 ⁵³	Fresh	92†	Yes
Diptera	Heleomyzidae				92 ⁴²	Yes
Coleoptera	Scarabaeidae	<i>Aphodius sp.</i>	0.0327 ³⁸		93 ³⁸	Yes
Coleoptera	Cerambycidae	<i>Leptura quadrifasciata</i>	0.1173 ³⁸		93 ³⁸	Yes
Neuroptera	Hemeroibiidae	<i>Micromus sp.</i>	0.0003 ³⁸		94 ³⁸	Yes
Diptera	Tipulidae		0.002 ³⁸		94 ³⁸	Yes
Coleoptera	Curculionidae	<i>Hypera meleus</i>			95†	Yes
Diptera	Tabanidae	<i>Tabanus bovinus</i>	0.276 ³⁶		96 ³⁶	Yes
Hemiptera	Pentatomidae	<i>Pentatoma rufipes</i>	0.1397 ³⁸		96 ³⁸	Yes

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Coleoptera			0.0539 ³⁸		97 ³⁸	Yes
Hymenoptera	Apidae	<i>Eulaema meriana</i>	0.94 ³⁶		98 ³⁶	No
Hymenoptera	Cimbicidae	<i>Cimbex sp.</i>			99†	Yes
Hemiptera	Aphididae	<i>Uroleucon cirsii</i>	0.0015 ³⁸		99 ³⁸	Yes
Hemiptera	Scutelleridae	<i>Chrysocoris purpureus</i>	0.264 ³⁶		100 ³⁶	No
Diptera	Tabanidae	<i>Dasyramphus atra</i>	0.233 ³⁶		100 ³⁶	Yes
Hemiptera	Aphididae	<i>Brevicoryne brassicae</i>	0.00084 ⁵⁴	Fresh	100†	Yes
Hymenoptera	Vespidae	<i>Vespa crabro</i>	0.567 ³⁶		100 ³⁶	Yes
Coleoptera	Scarabaeidae	<i>Aphodius sp.</i>	0.1095 ³⁸		101 ³⁸	Yes
Diptera	Lonchopteridae				102 ⁴²	Yes
Coleoptera	Coccinellidae	<i>Propylea 14-punctata</i>	0.0105 ³⁸		102 ³⁸	Yes
Diptera	Tabanidae				102 ⁴²	Yes
Coleoptera	Scarabaeidae	<i>Aphodius sp.</i>	0.0929 ³⁸		103 ³⁸	Yes
Coleoptera	Rutelidae	<i>Popillia japonica</i>	0.0501 ⁵⁵		104 ³⁷	No
Hymenoptera	Vespidae	<i>Vespa crabro</i>	0.597 ³⁶		104 ³⁶	Yes
Hemiptera	Aphididae	<i>Aphis fabae</i>	0.000641 ⁵⁶		104†	Yes
Diptera	Scathophagidae	<i>Scathophaga stercoraria</i>	0.0224 ³⁸		104 ³⁸	Yes
Hemiptera	Aphididae	<i>Myzus persicae</i>	0.0004 ⁵⁷	Fresh	104†	Yes
Hemiptera	Aphididae	<i>Aphis fabae</i>	0.000411 ³⁶		104 ³⁶	Yes
Hymenoptera	Vespidae	<i>Polistes dominula</i>	0.0898 ⁵⁸	Fresh	105†	Yes
Hymenoptera	Apidae	<i>Eulaema meriana</i>	0.875 ⁵⁰		105 ⁵⁰	No
Diptera	Therevidae				106 ⁴²	Yes
Coleoptera	Rutelidae	<i>Popillia japonica</i>	0.1504 ⁵⁹		107†	Yes
Hemiptera	Miridae		0.0119 ³⁸		108 ³⁸	Yes
Hymenoptera	Apidae	<i>Eulaema bombiformis</i>	0.983 ⁵⁰		109 ⁵⁰	No
Diptera	Stratiomyidae				109 ⁴²	Yes
Hymenoptera	Vespidae	<i>Vespa germanica</i>	0.187 ³⁶		110 ³⁶	Yes
Hymenoptera	Ichneumonidae		0.0233 ³⁸		110 ³⁸	Yes
Hymenoptera	Andrenidae	<i>Andrena vaga</i>	0.0957 ⁶⁰	Fresh	112†	Yes
Coleoptera	Oedemeridae	<i>Oedemera nobilis</i>	0.021 ³⁸		112 ³⁸	Yes
Hymenoptera	Vespidae	<i>Vespa crabro</i>	0.4775 ⁶¹		113†	Yes
Diptera	Syrphidae	<i>Syrphus grossulariae</i>	0.02 ³⁶		114 ³⁶	Yes
Diptera	Psychodidae				114 ⁴²	Yes
Hemiptera	Miridae	<i>Lygus rugulipennis</i>	0.014 ³⁸		115 ³⁸	Yes
Coleoptera	Nitidulidae	<i>Brassicogethes aeneus</i>	0.0014 ⁶²		115†	Yes
Hemiptera			0.0226 ³⁸		116 ³⁸	Yes
Hymenoptera	Braconidae				117†	Yes
Hymenoptera	Tenthredinidae	<i>Cladius pectinicornis</i>			117†	Yes

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Orthoptera	Acrididae	<i>Chorthippus brunneus</i>	0.16 ⁶³	Fresh	118†	Yes
Hemiptera	Aphididae	<i>Aphis nerii</i>	0.000467 ³⁶		118 ³⁶	Yes
Diptera	Syrphidae	<i>Volucella plumata</i>	0.124 ³⁶		120 ³⁶	Yes
Diptera	Syrphidae	<i>Volucella pellucens</i>	0.073 ³⁶		120 ³⁶	Yes
Diptera	Syrphidae	<i>Chrysotoxum bicincta</i>	0.075 ³⁶		120 ³⁶	Yes
Hemiptera	Miridae	<i>Lygocoris pabulinus</i>	0.00556 ⁶⁴	Fresh	120†	Yes
Hymenoptera	Sphecidae	<i>Ammophila sabulosa</i>	0.045 ³⁶		120 ³⁶	No
Hemiptera	Miridae		0.0048 ³⁸		120 ³⁸	Yes
Coleoptera	Tenthredinidae	<i>Ceutorhynchus obstrictus</i>			122†	Yes
Hemiptera	Cicadellidae	<i>Scaphoideus titanus</i>	0.00345 ⁶⁵	Fresh	123†	Yes
Coleoptera	Chrysomelidae	<i>Oulema melanopus</i>	0.0061 ³⁸		123 ³⁸	Yes
Hemiptera	Aphididae	<i>Aphis gossypii</i>	0.000114 ³⁶		123 ³⁶	Yes
Coleoptera	Rutelidae	<i>Popillia japonica</i>	0.09453 ⁵⁵		123 ³⁷	Yes
Hymenoptera	Apidae	<i>Bombus sp.</i>	1.6 ³⁶		125 ³⁶	Yes
Hemiptera	Aphididae	<i>Aphis gossypii</i>	0.00228 ⁶⁶	Fresh	125†	Yes
Hymenoptera	Vespidae	<i>Vespula vulgaris</i>	0.0841 ⁶¹		125†	Yes
Diptera	Bibionidae	<i>Biblio sp.</i>			125†	Yes
Diptera	Tephritidae	<i>Ceratitis capitata</i>	0.0049 ⁶⁷		126†	Yes
Hymenoptera	Braconidae	<i>Cotesia glomerata</i>	0.001 ⁴⁹		126 ⁴⁹	Yes
Hemiptera	Miridae		0.0011 ³⁸		127 ³⁸	Yes
Hymenoptera	Apidae	<i>Bombus muscorum</i>	0.226 ³⁶		128 ³⁶	Yes
Hymenoptera	Apidae	<i>Eulaema cingulata</i>	0.547 ³⁶		128 ³⁶	No
Diptera	Drosophilidae				129†	Yes
Hymenoptera	Apidae	<i>Apis sp.</i>	0.0213 ³⁶		130 ³⁶	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.388 ³⁶		130 ³⁶	Yes
Hymenoptera	Apidae	<i>Xylocopa violacea</i>	0.614 ³⁶		130 ³⁶	Yes
Coleoptera	Brentidae	<i>Protapion fulvipes</i>			130†	Yes
Coleoptera	Staphylinidae	<i>Dalotia coriaria</i>			130†	Yes
Hymenoptera	Ichneumonidae	<i>Orthopelma mediator</i>	0.000712 ⁶⁸	Dry	130†	Yes
Diptera	Stratiomyidae				131 ⁴²	Yes
Diptera	Syrphidae	<i>Volucella bombylans</i>	0.1624 ³⁸		133 ³⁸	Yes
Diptera	Syrphidae	<i>Volucella pellucens</i>	0.01613 ³⁸		134 ³⁸	Yes
Diptera	Muscidae	<i>Musca domestica</i>	0.01697 ⁶⁹		134†	Yes
Hymenoptera	Apidae	<i>Bombus liortoni</i>	0.159 ³⁶		135 ³⁶	Yes
Hymenoptera	Apidae	<i>Eulaema cingulata</i>	0.544 ⁵⁰		135 ⁵⁰	No
Hymenoptera	Vespidae		0.0184 ³⁸		135 ³⁸	Yes
Hymenoptera	Braconidae		0.0029 ³⁸		136 ³⁸	Yes
Diptera	Stratiomyidae				136 ⁴²	Yes

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Diptera	Asilidae				137 ⁴²	Yes
Diptera	Syrphidae	<i>Syrphus balteatus</i>	0.0232 ³⁶		138 ³⁶	Yes
Hemiptera	Miridae	<i>Macrolophus pygmaeus</i>	0.00084 ⁷⁰	Fresh	139†	Yes
Hymenoptera	Vespidae	<i>Vespa germanica</i>	0.24 ³⁶		139 ³⁶	Yes
Hemiptera	Miridae	<i>Macrolophus sp.</i>	0.0076 ³⁸		139 ³⁸	Yes
Diptera	Syrphidae	<i>Episyrphus balteatus</i>	0.01507 ⁷¹		140†	Yes
Hymenoptera	Cynipidae	<i>Diplolepis rosae</i>	0.001077 ⁶⁸	Dry	140†	Yes
Diptera	Cecidomyiidae	<i>Aphidoletes aphidimyza</i>			140†	Yes
Diptera	Calliphoridae	<i>Lucilia sericata</i>	0.00732 ⁷²	Fresh	142†	Yes
Hymenoptera	Vespidae	<i>Vespula vulgaris</i>	0.09 ³⁶		143 ³⁶	Yes
Diptera	Syrphidae	<i>Chrysotoxum arcuatum</i>	0.073 ³⁶		144 ³⁶	Yes
Diptera	Psychodidae		0.0006 ³⁸		144 ³⁸	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.2081 ³⁸		144 ³⁸	Yes
Hymenoptera	Vespidae	<i>Vespula germanica</i>	0.0769 ³⁸		145 ³⁸	Yes
Hymenoptera	Vespidae	<i>Vespula germanica</i>	0.0833 ³⁸		146 ³⁸	Yes
Diptera	Syrphidae	<i>Platychirus pellatus</i>	0.0128 ³⁶		147 ³⁶	Yes
Diptera	Dolichopodidae	<i>Hydrophorus albofloreus</i>	0.0047 ⁷³	Dry	148 ⁷³	Yes
Coleoptera	Rutelidae	<i>Popillia japonica</i>	0.1955 ⁵⁵		148 ³⁷	Yes
Diptera	Tabanidae				148 ⁴²	Yes
Hemiptera	Pentatomidae	<i>Graphosoma italicum</i>	0.045 ⁷⁴	Dry	149†	Yes
Hymenoptera	Apidae	<i>Eulaema nigrita</i>	0.399 ³⁶		149 ³⁶	No
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.2227 ³⁸		149 ³⁸	Yes
Diptera	Sarcophagidae	<i>Sarcophaga sp.</i>	0.054 ³⁸		149 ³⁸	Yes
Hymenoptera	Apidae	<i>Eulaema nigrita</i>	0.441 ⁵⁰		150 ⁵⁰	No
Hymenoptera	Ichneumonidae	<i>Tersilochus heterocerus</i>			150†	Yes
Diptera	Syrphidae	<i>Chrysotoxum vernale</i>	0.064 ³⁶		150 ³⁶	Yes
Hemiptera	Saldidae		0.0021 ⁷⁵		151†	Yes
Hemiptera	Aleyrodidae	<i>Trialeurodes vaporariorum</i>	3.5e-05 ³⁶		151†	Yes
Diptera	Empididae		0.0193 ³⁸		151 ³⁸	Yes
Diptera	Sciomyzidae		0.011†	Wet	151 ⁴²	Yes
Diptera	Tabanidae	<i>Haematopota pluvialis</i>	0.0183 ³⁸		151 ³⁸	Yes
Hymenoptera	Apidae	<i>Bombus lapidarius</i>	0.568 ³⁶		152 ³⁶	Yes
Hymenoptera	Braconidae	<i>Dacnusa sibirica</i>			152†	Yes
Hymenoptera	Vespidae	<i>Vespula germanica</i>	0.0818 ³⁸		152 ³⁸	Yes
Diptera	Dolichopodidae				152 ⁴²	Yes
Hymenoptera	Braconidae	<i>Aphidius ervi</i>	0.0002 ⁷⁶	Dry	152†	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.1854 ³⁸		152 ³⁸	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.88 ³⁶		156 ³⁶	Yes

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Diptera	Stratiomyidae	<i>Chloromyia formosa</i>	0.0183 ³⁸		156 ³⁸	Yes
Diptera	Tephritidae	<i>Bactrocera oleae</i>			157†	Yes
Diptera	Tephritidae	<i>Rhagoletis spp.</i>	0.0045†	Wet	157 ⁴²	Yes
Hymenoptera	Braconidae	<i>Aphidius colemani</i>	3.4e-05 ⁷⁷	Dry	159†	Yes
Diptera	Calliphoridae	<i>Calliphora sp.</i>	0.023 ³⁶		160 ³⁶	Yes
Diptera	Sarcophagidae	<i>Sarcophaga carnaria</i>	0.045 ³⁶		160 ³⁶	Yes
Hymenoptera	Torymidae	<i>Torymus sp.</i>	0.0024 ³⁸		160 ³⁸	Yes
Diptera	Calliphoridae				160 ⁴²	Yes
Diptera	Sarcophagidae	<i>Sarcophaga crassipalpis</i>	0.02268 ⁷⁸		161 ⁷⁹	Yes
Diptera	Sciaridae				161 ⁴²	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.2125 ³⁸		161 ³⁸	Yes
Diptera	Calliphoridae	<i>Calliphora erythrocephala</i>	0.053 ³⁶		162 ³⁶	Yes
Hymenoptera	Braconidae	<i>Aphidius matricariae</i>			163†	Yes
Hymenoptera			0.103 ³⁸		163 ³⁸	Yes
Diptera	Syrphidae	<i>Eristalis tenax</i>	0.111 ³⁶		164 ³⁶	Yes
Hymenoptera	Braconidae		0.003 ³⁸		164 ³⁸	Yes
Hymenoptera	Megachilidae	<i>Megachile rotundata</i>	0.02437 ⁸⁰		165 ⁸⁰	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.2154 ³⁸		165 ³⁸	Yes
Hemiptera	Alerodidae	<i>Aleurothrixus floccosus</i>	6.5e-05 ³⁶		165 ³⁶	No
Diptera	Syrphidae	<i>Episyrphus balteatus</i>	0.0294 ³⁸		166 ³⁸	Yes
Diptera	Drosophilidae	<i>Drosophila melanogaster</i>	0.0009 ⁸¹	Dry	166†	Yes
Diptera	Drosophilidae	<i>Drosophila melanogaster</i>	0.0006 ⁸²	Wet	166†	Yes
Diptera	Dolichopodidae				166 ⁴²	Yes
Diptera	Dolichopodidae				167 ⁴²	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.1381 ⁸³	Fresh	168†	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.1493 ⁸³	Fresh	168†	Yes
Coleoptera	Staphylinidae	<i>Aleochara bilineata</i>	0.003 ⁸⁴		168†	Yes
Hemiptera	Alerodidae	<i>Bemisia tabaci</i>	3.3e-05 ³⁶		168 ³⁶	Yes
Diptera	Sarcophagidae				168 ⁴²	Yes
Diptera	Sarcophagidae	<i>Sarcophaga crassipalpis</i>	0.02268 ⁷⁸		169 ⁷⁹	Yes
Hymenoptera	Apidae	<i>Eufriesia pulchra</i>	0.425 ³⁶		170 ³⁶	No
Thysanoptera	Thripidae	<i>Scirtothrips citri</i>	1.34e-05 ⁸⁵	Fresh	170†	Yes
Diptera	Lauxaniidae				170 ⁴²	Yes
Diptera	Syrphidae	<i>Syrphus nitens</i>	0.022 ³⁶		172 ³⁶	Yes
Hymenoptera	Andrenidae	<i>Andrena sp.</i>	0.0453 ³⁸		172 ³⁸	Yes
Hymenoptera	Vespidae	<i>Vespula vulgaris</i>	0.0874 ³⁸		173 ³⁸	Yes
Thysanoptera	Thripidae	<i>Frankliniella occidentalis</i>	1.5e-05 ⁸⁶	Fresh	174†	Yes
Diptera	Syrphidae	<i>Syrphus corollae</i>	0.0213 ³⁶		174 ³⁶	Yes

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Diptera	Sarcophagidae	<i>Sarcophaga crassipalpis</i>	0.02268 ⁷⁸		177 ⁷⁹	Yes
Diptera	Muscidae	<i>Mesembrina meridiana</i>	0.117†	Wet	177 ⁴²	Yes
Hymenoptera	Eulophidae	<i>Diglyphus isaea</i>			177†	Yes
Diptera	Drosophilidae	<i>Scaptomyza flava</i>	0.00014 ⁸⁷	Dry	177†	Yes
Diptera	Syrphidae	<i>Syrphus ribesii</i>	0.0273 ³⁸		177 ³⁸	Yes
Hymenoptera	Apidae	<i>Euglossa imperialis</i>	0.169 ³⁶		179 ³⁶	No
Diptera	Tachinidae		0.0055†	Wet	179 ⁴²	Yes
Hemiptera	Alerodidae	<i>Trialeurodes vaporariorum</i>	3.5e-05 ³⁶		180 ³⁶	Yes
Diptera	Chloropidae		0.003 ³⁸		180 ³⁸	Yes
Hymenoptera	Apidae	<i>Eufriesea pulchra</i>	0.351 ⁵⁰		181 ⁵⁰	No
Hymenoptera	Apidae	<i>Euglossa imperialis</i>	0.176 ⁵⁰		181 ⁵⁰	No
Diptera	Calliphoridae	<i>Calliphora dubia</i>			181 ⁷⁹	No
Diptera	Syrphidae	<i>Eristalis tenax</i>	0.129 ³⁶		181 ³⁶	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.1504 ³⁸		183 ³⁸	Yes
Hymenoptera	Apidae	<i>Euglossa cognata</i>	0.159 ⁵⁰		184 ⁵⁰	No
Diptera	Syrphidae				185 ⁴²	Yes
Hymenoptera	Pteromalidae	<i>Pteromalus puparium</i>	0.001 ⁴⁹		185 ⁴⁹	Yes
Diptera	Calliphoridae				185 ⁴²	Yes
Diptera	Heleomyzidae				185 ⁴²	Yes
Diptera	Calliphoridae	<i>Calliphora dubia</i>			186 ⁷⁹	No
Diptera	Syrphidae	<i>Syrphus ribesii</i>	0.0371 ³⁶		186 ³⁶	Yes
Hymenoptera	Apidae	<i>Bombus terrestris</i>	0.1641 ³⁸		186 ³⁸	Yes
Hymenoptera	Pteromalidae	<i>Spalangia cameroni</i>	0.025 ⁸⁸	Dry	187†	Yes
Diptera	Anthomyiidae	<i>Delia antiqua</i>			187†	Yes
Diptera	Syrphidae	<i>Scaeva pyrastris</i>	0.034 ³⁶		190 ³⁶	Yes
Diptera	Muscidae	<i>Musca domestica</i>	0.012 ³⁶		190 ³⁶	Yes
Diptera	Syrphidae	<i>Syrphus sp.</i>	0.0005 ³⁸		190 ³⁸	Yes
Diptera	Calliphoridae	<i>Calliphora dubia</i>			191 ⁷⁹	No
Hymenoptera	Megachilidae	<i>Osmia bicornis</i>	0.08345 ⁸⁹	Fresh	194†	No
Diptera	Drosophilidae	<i>Drosophila virilis</i>	0.002 ³⁶		195 ³⁶	Yes
Diptera	Syrphidae	<i>Syrphus vitripennis</i>	0.0385 ³⁶		196 ³⁶	Yes
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.1008 ³⁶		197 ³⁶	Yes
Hymenoptera	Apidae	<i>Bombus pascuorum</i>	0.1166 ³⁸		198 ³⁸	Yes
Diptera	Syrphidae		0.0044 ³⁸		198 ³⁸	Yes
Hymenoptera	Figitidae	<i>Leptopilina boulandi</i>	0.004 ⁴⁹		198 ⁴⁹	Yes
Diptera	Calliphoridae				199 ⁴²	Yes
Hymenoptera	Apidae	<i>Bombus lapidarius</i>	0.1536 ³⁸		199 ³⁸	Yes

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Hymenoptera	Apidae	<i>Euglossa championi</i>	0.136 ⁵⁰		200 ⁵⁰	No
Diptera	Cecidomyiidae	<i>Dasineura brassicae</i>			200†	Yes
Diptera	Calliphoridae				200 ⁴²	Yes
Diptera	Cecidomyiidae	<i>Feltiella acarisuga</i>			201†	Yes
Diptera	Calliphoridae	<i>Lucilia sericata</i>	0.00732 ⁷²	Fresh	201 ⁷⁹	Yes
Diptera	Chloropidae		0.00075†	Wet	202 ⁴²	Yes
Diptera	Syrphidae				202 ⁴²	Yes
Hymenoptera	Encyrtidae	<i>Leptomastix dactylopii</i>	0.00045 ⁹⁰	Fresh	203†	No
Hymenoptera	Apidae	<i>Euglossa crasipunctata</i>	0.067 ⁵⁰		204 ⁵⁰	No
Hymenoptera	Apidae	<i>Bombus pascuorum</i>	0.1166 ³⁸		205†	No
Hymenoptera	Apidae	<i>Euglossa bursigera</i>	0.084 ⁵⁰		207 ⁵⁰	No
Diptera	Drosophilidae				207 ⁴²	Yes
Diptera			0.0268 ³⁸		208 ³⁸	Yes
Diptera	Syrphidae		0.0385 ³⁸		208 ³⁸	Yes
Hymenoptera	Apidae	<i>Euglossa mandibularis</i>	0.09 ³⁶		209 ³⁶	No
Diptera	Fanniidae	<i>Fannia scalaris</i>	0.01 ³⁶		210 ³⁶	Yes
Diptera	Syrphidae	<i>Eristalis tenax</i>	0.073 ³⁶		210 ³⁶	Yes
Hymenoptera	Crabonidae	<i>Ectemnius cavifrons</i>	0.08 ³⁸		210 ³⁸	Yes
Diptera	Syrphidae	<i>Eristalis arbustorum</i>	0.0705 ³⁶		211 ³⁶	Yes
Diptera	Syrphidae	<i>Eupeodes corollae</i>	0.01095 ⁷¹		212†	Yes
Diptera	Calliphoridae	<i>Lucilia sericata</i>	0.00768 ⁹¹	Fresh	213 ⁷⁹	Yes
Hymenoptera	Andrenidae	<i>Andrena sp.</i>	0.0376 ³⁸		213 ³⁸	Yes
Hymenoptera	Apidae	<i>Euglossa tridentata</i>	0.11 ⁵⁰		214 ⁵⁰	No
Diptera	Calliphoridae	<i>Calliphora vomitoria</i>	0.0549 ³⁸		214 ³⁸	Yes
Diptera	Sepsidae				215 ⁴²	Yes
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.089†		217†	Yes
Diptera	Chironomidae				218 ⁴²	Yes
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.089†		219†	Yes
Diptera	Muscidae	<i>Hydrotaea aenescens</i>	0.0121 ⁹²		219†	Yes
Hymenoptera	Vespidae	<i>Polistes gallicus</i>	0.115 ³⁶		220 ³⁶	Yes
Hymenoptera	Apidae	<i>Euglossa dissimula</i>	0.104 ³⁶		220 ³⁶	No
Diptera	Muscidae	<i>Musca vetustissima</i>	0.01 ⁹³	Fresh	221 ⁷⁹	No
Hymenoptera	Apidae	<i>Euglossa mixta</i>	0.094 ⁵⁰		223 ⁵⁰	No
Diptera	muscidae	<i>Musca vetustissima</i>	0.01 ⁹³	Fresh	224 ⁷⁹	No
Hemiptera	Alerodidae	<i>Trialeurodes abutiloides</i>	5e-05 ³⁶		224 ³⁶	Yes
Diptera	Calliphoridae	<i>Lucilia sericata</i>	0.00768 ⁹¹	Fresh	225 ⁷⁹	Yes
Diptera	Sciaridae		0.00022†	Wet	225†	Yes
Hymenoptera	Apidae	<i>Euglossa dissimula</i>	0.1 ⁵⁰		227 ⁵⁰	No

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Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.089†		228†	Yes
Diptera	Muscidae	<i>Musca vetustissima</i>	0.01 ⁹³	Fresh	229 ⁷⁹	No
Diptera	Drosophilidae	<i>Drosophila suzukii</i>	0.0008 ⁹⁴	Fresh	230†	Yes
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.089†		230†	Yes
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.0886 ³⁸		230 ³⁸	Yes
Hymenoptera	Apidae	<i>Euglossa hansonii</i>	0.082 ⁵⁰		233 ⁵⁰	No
Hymenoptera	Apidae	<i>Euglossa sapphirina</i>	0.055 ⁵⁰		234 ⁵⁰	No
Hymenoptera	Megachilidae	<i>Megachile rotundata</i>	0.02437 ⁸⁰		234†	Yes
Hymenoptera	Apidae	<i>Euglossa despecta</i>	0.112 ⁵⁰		238 ⁵⁰	No
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.085 ³⁶		240 ³⁶	Yes
Diptera	Drosophilidae	<i>Drosophila virilis</i>	0.002 ³⁶		240 ³⁶	Yes
Diptera	Dolichopodidae				244 ⁴²	Yes
Hymenoptera	Apidae	<i>Euglossa heterosticta</i>	0.064 ⁵⁰		250 ⁵⁰	No
Hymenoptera	Apidae	<i>Apis mellifera</i>	0.078 ³⁶		250 ³⁶	Yes
Hymenoptera	Aphelinidae	<i>Encarsia formosa</i>			259†	Yes
Diptera	Culicidae	<i>Theobaldia anulata</i>	0.0099 ³⁶		262 ³⁶	Yes
Diptera	Chamaemyiidae				262 ⁴²	Yes
Hymenoptera	Apidae	<i>Euglossa sapphirina</i>	0.071 ³⁶		265 ³⁶	No
Diptera	Pipunculidae		0.001†	Wet	269 ⁴²	Yes
Diptera	Chloropidae	<i>Thaumatomyia notata</i>	0.0014 ³⁸		269 ³⁸	Yes
Hymenoptera	Trichogrammatidae	<i>Trichogramma</i>			272†	Yes
Diptera	Culicidae		0.0058 ³⁶		277 ³⁶	Yes
Diptera	Culicidae				286 ⁴²	Yes
Diptera	Culicidae	<i>Aedes cantans</i>	0.0066 ³⁸		286 ³⁸	Yes
Diptera	Culicidae				298 ⁴²	Yes
Diptera	Syrphidae	<i>Sphaerophoria scripta</i>	0.0193 ³⁶		308 ³⁶	Yes
Diptera	Culicidae		0.0018†	Wet	329†	Yes
Diptera	Culicidae	<i>Culiseta annulata</i>	0.0077 ³⁸		331 ³⁸	Yes
Diptera	Culicidae	<i>Culex pipiens</i>	0.0049 ³⁸		334 ³⁸	Yes
Diptera	Culicidae				339 ⁴²	Yes
Diptera	Culicidae	<i>Culex restuans</i>	0.0018†	Wet	341 ⁹⁵	No
Diptera	Culicidae	<i>Culiseta annulata</i>	0.007 ³⁸		344 ³⁸	Yes
Diptera	Culicidae	<i>Aedes dorsalis</i>	0.0018†	Wet	373 ⁹⁵	Yes
Diptera	Culicidae	<i>Aedes vexans</i>	0.0024 ⁹⁶	Dry	377 ⁹⁵	Yes
Diptera	Culicidae	<i>Aedes infirmatus</i>	0.0018†	Wet	380 ⁹⁵	Yes
Diptera	Culicidae	<i>Aedes japonicus</i>	0.0018†	Wet	383 ⁹⁵	Yes
Diptera	Culicidae	<i>Culex coronator</i>	0.0018†	Wet	393 ⁹⁵	No
Diptera	Culicidae	<i>Mansonia titillans</i>	0.0018†	Wet	395 ⁹⁵	No

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Diptera	Culicidae	<i>Aedes triseriatus</i>	0.0005 ⁹⁷	Dry	395 ⁹⁵	Yes
Diptera	Culicidae	<i>Culex tarsalis</i>	0.00187 ⁹⁸	Dry	395 ⁹⁵	No
Diptera	Culicidae	<i>Culex nigripalpus</i>	0.0018†	Wet	397 ⁹⁵	No
Diptera	Culicidae	<i>Psorophora columbiae</i>	0.0018†	Wet	411 ⁹⁵	No
Diptera	Culicidae	<i>Anopheles crucians</i>	0.0018†	Wet	411 ⁹⁵	No
Diptera	Culicidae	<i>Aedes sierrensis</i>	0.0018†	Wet	425 ⁹⁵	No
Diptera	Culicidae	<i>Culiseta incidens</i>	0.0018†	Wet	426 ⁹⁵	No
Diptera	Culicidae	<i>Deinocerites cancer</i>	0.0018†	Wet	427 ⁹⁵	No
Diptera	Culicidae	<i>Wyeomyia mitchellii</i>	0.0018†	Wet	438 ⁹⁵	No
Diptera	Culicidae	<i>Culex interrogator</i>	0.0018†	Wet	441 ⁹⁵	No
Diptera	Chironomidae				445 ⁴²	Yes
Diptera	Culicidae	<i>Aedes taeniorhynchus</i>	0.0018†	Wet	447 ⁹⁵	No
Diptera	Culicidae	<i>Wyeomyia vanduzeei</i>	0.0018†	Wet	454 ⁹⁵	No
Diptera	Culicidae	<i>Culex quinquefasciatus</i>	0.0018†	Wet	456 ⁹⁵	Yes
Diptera	Culicidae	<i>Anopheles albimanus</i>	0.0018†	Wet	460 ⁹⁵	No
Diptera	Culicidae	<i>Culex iolambdis</i>	0.0018†	Wet	469 ⁹⁵	No
Diptera	Culicidae	<i>Aedes aegypti</i>	0.0015 ³⁶		480 ³⁶	Yes
Diptera	Culicidae	<i>Aedes aegypti</i>	0.0023 ⁹⁹		498 ⁹⁵	Yes
Diptera	Culicidae	<i>Anopheles quadrimaculatus</i>	0.0018†	Wet	504 ⁹⁵	No
Diptera	Culicidae	<i>Wyeomyia smithii</i>	0.0018†	Wet	525 ⁹⁵	No
Diptera	Culicidae	<i>Aedes albopictus</i>	0.0004 ¹⁰⁰	Dry	536 ⁹⁵	No
Diptera	Chironomidae		0.0018 ³⁸		544 ³⁸	No
Diptera	Chironomidae		0.0011 ³⁸		557 ³⁸	Yes
Diptera	Culicidae	<i>Toxorhynchites rutilus</i>	0.0018†	Wet	600 ⁹⁵	No
Diptera	Culicidae	<i>Uranotaenia lowii</i>	0.0018†	Wet	736 ⁹⁵	No
Diptera	Culicidae	<i>Aedes aegypti</i>	0.0004 ⁹⁹		852†	Yes
Hemiptera	Dicytyopharidae	<i>Engela minuta</i>	0.0057 ¹⁰¹			No
Hemiptera	Dicytyopharidae	<i>Thanatodictya praeferata</i>	0.0081 ¹⁰¹			No
Hemiptera	Dicytyopharidae	<i>Raphiophora vitrea</i>	0.0196 ¹⁰¹			No
Hemiptera	Dicytyopharidae	<i>Dictyophara europaea</i>	0.0229 ¹⁰¹			Yes
Hemiptera	Miridae	<i>Plagiognathus sp.</i>	0.0022 ¹⁰²			Yes
Hemiptera	Miridae	<i>Orthocephalus saltator</i>	0.0044 ¹⁰²			Yes
Hemiptera	Miridae	<i>Phytocoris varipes</i>	0.01005 ¹⁰²			Yes
Hemiptera	Miridae	<i>Psallus perrisi</i>	0.0133 ¹⁰²			Yes
Coleoptera	Oedemeridae	<i>Oedemera nobilis</i>	0.0189 ¹⁰³			Yes
Hemiptera	Alerodidae	<i>Dialeurodes citri</i> (male)	3.6e-05 ³⁶			Yes
Hemiptera	Alerodidae	<i>Dialeurodes citri</i> (female)	8e-05 ³⁶			Yes

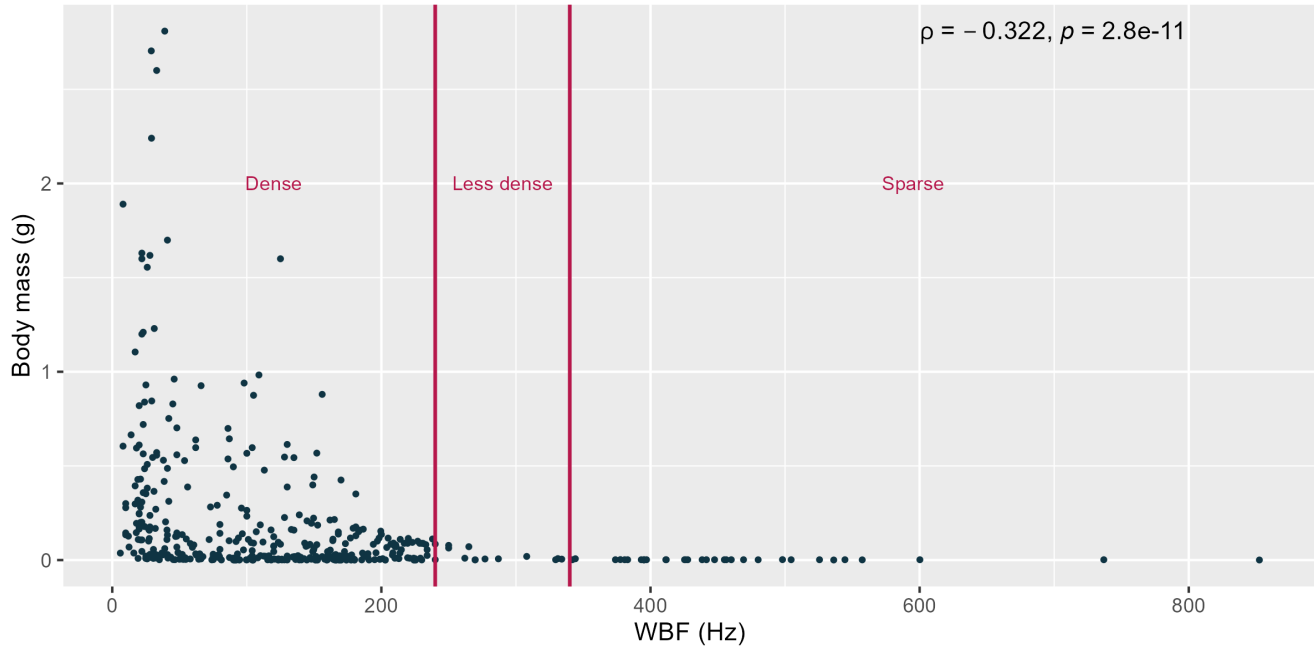
Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Hymenoptera	Braconidae	<i>Aphidius ervi</i>	0.00017 ¹⁰⁴			Yes
Coleoptera	Staphylinidae	<i>Aleochara lanuginosa</i>	0.0003 ⁷⁴	Dry		No
Hemiptera	Cixiidae		0.0002 ⁷⁴	Dry		Yes
Hymenoptera	Formicidae	<i>Lasius alienus</i>	0.0003 ⁷⁴	Dry		Yes
Hymenoptera	Formicidae	<i>Ponera coarctata</i>	0.0003 ⁷⁴	Dry		Yes
Hymenoptera	Formicidae	<i>Lasius niger</i>	0.0004 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Epaphius secalis</i>	0.0005 ⁷⁴	Dry		Yes
Hymenoptera	Formicidae	<i>Lasius fuliginosus</i>	0.0005 ⁷⁴	Dry		Yes
Coleoptera	Staphylinidae	<i>Oxytelus sculptus</i>	0.0006 ⁷⁴	Dry		Yes
Hymenoptera	Formicidae	<i>Myrmica ruginodis</i>	0.0007 ⁷⁴	Dry		Yes
Coleoptera	Staphylinidae	<i>Tachinus signatus</i>	0.0008 ⁷⁴	Dry		Yes
Diptera	Chironomidae	<i>Chironomus plumosus</i>	0.001 ⁷⁴	Dry		Yes
Coleoptera	Staphylinidae	<i>Philonthus rectangulus</i>	0.002 ⁷⁴	Dry		Yes
Hemiptera	Miridae	<i>Lygus pratensis</i>	0.002 ⁷⁴	Dry		Yes
Dermaptera	Spongiphoridae	<i>Labia minor</i>	0.003 ⁷⁴	Dry		Yes
Hemiptera	Rhyparochromidae	<i>Rhyparochromus phoeniceus</i>	0.004 ⁷⁴	Dry		Yes
Coleoptera	Histeridae	<i>Hister fenestus</i>	0.006 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Leistus ferrugineus</i>	0.007 ⁷⁴	Dry		Yes
Coleoptera	Scarabaeidae	<i>Aphodius foetens</i>	0.009 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Ophonus rufibarbis</i>	0.011 ⁷⁴	Dry		Yes
Coleoptera	Staphylinidae	<i>Philonthus decorus</i>	0.012 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Limodromus assimilis</i>	0.015 ⁷⁴	Dry		Yes
Hemiptera	Coreidae	<i>Coreus marginatus</i>	0.023 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Calathus ambiguus</i>	0.025 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Calathus fuscipes</i>	0.025 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Nebria brevicollis</i>	0.029 ⁷⁴	Dry		Yes
Dermaptera	Forficulidae	<i>Forficula auricularia</i>	0.029 ⁷⁴	Dry		Yes
Hemiptera	Pyrrhocoridae	<i>Pyrrhocoris apterus</i>	0.032 ⁷⁴	Dry		Yes
Coleoptera	Silphidae	<i>Phosphuga atrata</i>	0.042 ⁷⁴	Dry		Yes
Coleoptera	Cetoniidae	<i>Oxythyrea funesta</i>	0.045 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Pseudoophonus rufipes</i>	0.047 ⁷⁴	Dry		Yes
Orthoptera	Acrididae	<i>Chorthippus spp.</i>	0.063 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Pterostichus melanarius</i>	0.071 ⁷⁴	Dry		Yes
Orthoptera	Acrididae	<i>Chorthippus spp.</i>	0.072 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Pterostichus niger</i>	0.074 ⁷⁴	Dry		Yes
Coleoptera	Silphidae	<i>Silpha carinata</i>	0.074 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Carabus granulatus</i>	0.106 ⁷⁴	Dry		Yes

Table continued from previous page

Order	Family	Species	Body Mass (g)	Wet/Dry/Fresh weight	WBF (Hz)	Europe (Yes/No) ³⁵
Coleoptera	Carabidae	<i>Carabus convexus</i>	0.12 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Carabus hortensis</i>	0.237 ⁷⁴	Dry		Yes
Coleoptera	Carabidae	<i>Carabus coriaceus</i>	1.043 ⁷⁴	Dry		Yes
Diptera	Muscidae	<i>Musca domestica</i>	0.0195 ⁹²			Yes
Hymenoptera	Pteromalidae	<i>Trichilogaster signiventris</i>	0.00018 ¹⁰⁵	Wet		No
Coleoptera	Chrysomelidae		0.0055 ¹⁰⁵	Wet		Yes
Diptera	Tephritidae	<i>Ceratitis capitata</i>	0.007 ¹⁰⁵	Wet		Yes
Hymenoptera	Pteromalidae	<i>Trichilogaster acaciaelongifoliae</i>	0.027 ¹⁰⁵	Wet		Yes
Coleoptera	Curculionidae	<i>Gonipterus scutellatus</i>	0.03 ¹⁰⁵	Wet		Yes
Lepidoptera	Nymphalidae	<i>Dira clytus</i>	0.062 ¹⁰⁵	Wet		Yes
Hemiptera	Aphididae	<i>Aphis gossypii</i>	0.000183 ⁶⁶	Fresh		Yes
Hymenoptera	Vespidae	<i>Polistes gallicus</i>	0.06324 ¹⁰⁶			Yes
Hymenoptera	Vespidae	<i>Polistes dominula</i>	0.10044 ¹⁰⁶			Yes
Coleoptera	Chrysomelidae	<i>Chaetocnema aridula</i>	0.0014 ¹⁰⁷			Yes
Coleoptera	Chrysomelidae	<i>Longitarsus pratensis</i>	0.00175 ¹⁰⁷			Yes
Coleoptera	Chrysomelidae	<i>Crepidodera aurata</i>	0.00265 ¹⁰⁷			Yes
Coleoptera	Chrysomelidae	<i>Aphthona cyparissiae</i>	0.0044 ¹⁰⁷			Yes
Coleoptera	Chrysomelidae	<i>Sphaeroderma testaceum</i>	0.00465 ¹⁰⁷			Yes
Diptera	Tephritidae	<i>Ceratitis capitata</i>	0.00784 ¹⁰⁸	Fresh		Yes
Diptera	Hybotidae		0.00063†	Wet		Yes
Diptera	Limoniidae		0.0018†	Wet		Yes
Diptera	Ptychopteridae	<i>Ptychoptera spp.</i>	0.0046†	Wet		Yes
Diptera	Psilidae		0.0058†	Wet		Yes
Diptera	Dolichopodidae		0.008†	Wet		Yes
Diptera	Palloppteridae					Yes
Diptera	Dolichopodidae		0.003†	Wet		

S3: Body mass and WBF distribution



S3: Body mass and WBF distribution categorized into three regions along with Pearson's correlation coefficient ρ and its P -value. $n = 407$. From left to right: The dense region which includes WBFs less than 240 Hz. The less dense region which includes WBFs between 240 Hz and 340 Hz, and the sparse region which covers WBFs greater than 340 Hz.

S4: Biomass algorithm

```
1: Input: Set of  $N$  insect events, each with a WBF estimate  $\mu_{f_0}^i$ 
2: Output: Estimated body mass  $B_i$  for each event
3: for  $i \leftarrow 1$  to  $N$  do
4:   Retrieve candidate species from reference table
5:   Let  $C$  = number of retrieved candidates
6:   if  $C = 0$  then
7:     if  $240 < \mu_{f_0}^i \leq 340$  Hz then
8:        $B_i \leftarrow$  median mass for  $(240 < \mu_{f_0}^i \leq 340$  Hz)
9:     else if  $\mu_{f_0}^i > 340$  Hz then
10:       $B_i \leftarrow$  mass for  $\mu_{f_0}^i = 480$  Hz (mosquito)
11:     else
12:       $B_i \leftarrow$  median mass for  $\mu_{f_0}^i \leq 240$  Hz
13:     end if
14:   else if  $C = 1$  then
15:      $B_i \leftarrow$  mass of the single candidate
16:   else  $\triangleright C > 1$ 
17:     Exclude non-region insects (e.g., non-European) to refine the candidate set
18:     Let  $C'$  = updated number of candidates
19:     if  $C' = 0$  then
20:        $B_i \leftarrow 0$ 
21:     else if  $C' = 1$  then
22:        $B_i \leftarrow$  mass of the single remaining candidate
23:     else
24:        $B_i \leftarrow$  weighted average of remaining candidate masses
25:     end if
26:   end if
27: end for
```

S5: Descriptive statistics of reference table

Descriptive statistics for body mass and WBF from the reference table (S2), including number of values (N), mean, standard deviation (S.D.), minimum (Min), and maximum (Max) values.

Variable	N	Mean	S.D.	Min	Max
Body Mass (g)	480	0.17	0.36	0.000013	2.8
WBF (Hz)	473	143	117	6	852

S6: Overview of count and biomass samples

Start- and end date of count and biomass data collection for both sites 1 and 2 for both sensors and Malaise traps. The table is ordered by site and start date.

Start Date	End Date	Site	Sensor Count	Malaise Count	Sensor (g)	Biomass (g)	Malaise Biomass (g)
2024-06-17	2024-06-18	Site1	329	320	25.0		1.645
2024-06-18	2024-06-19	Site1	221	385	14.141136		1.593
2024-06-19	2024-06-20	Site1	97	103	12.674007		0.43
2024-06-20	2024-06-21	Site1	176	482	13.991867		1.368
2024-06-24	2024-06-25	Site1	503	463	16.8197		1.451
2024-06-25	2024-06-26	Site1	241	797	19.701242		2.16
2024-06-26	2024-06-27	Site1	313	380	31.594295		1.86
2024-06-27	2024-06-28	Site1	301	832	30.040947		3.271
2024-07-11	2024-07-15	Site1	2033	1091	113.545189		4.322
2024-07-15	2024-07-18	Site1	3602	916	195.0		3.033
2024-07-18	2024-07-22	Site1	8856	2799	350.0		10.757
2024-07-22	2024-07-25	Site1	2896	892	156.0		5.142
2024-07-25	2024-07-29	Site1	3243	996	163.0		4.69
2024-07-29	2024-08-01	Site1	6010	1560	205.0		5.122
2024-08-01	2024-08-05	Site1	7331	1498	237.33		5.65
2024-08-05	2024-08-08	Site1	8700	969	296.39		3.782
2024-08-08	2024-08-12	Site1	2582	682	152.13		2.073
2024-08-12	2024-08-15	Site1	4948	779	202.53		2.651
2024-08-15	2024-08-19	Site1	1006	1003	71.5		2.25
2024-08-19	2024-08-22	Site1	1442	426	88.13		0.848
2024-08-22	2024-08-26	Site1	2482	436	297.35		1.005
2024-08-26	2024-08-29	Site1	1081	650	145.36		4.683
2024-08-29	2024-09-02	Site1	1084	616	121.17		2.121
2024-09-02	2024-09-05	Site1	1055	547	118.404		1.82
2024-09-05	2024-09-09	Site1	747	716	95.13		1.454
2024-09-09	2024-09-12	Site1	103	137	28.23		0.801
2024-06-17	2024-06-18	Site2	944	948	51.311		4.38
2024-06-18	2024-06-19	Site2	1048	921	23.9105605		3.827
2024-06-19	2024-06-20	Site2	207	322	45.44451767		0.964
2024-06-20	2024-06-21	Site2	2361	1162	71.00112367		2.804
2024-06-24	2024-06-25	Site2	881	621	36.41		2.161
2024-06-25	2024-06-26	Site2	901	1071	33.29		3.067
2024-06-26	2024-06-27	Site2	864	1097	49.42		3.237

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Table continued from previous page

Start Date	End Date	Location	Sensor Count	Malaise Count	Sensor (g)	Biomass	Malaise Biomass (g)
2024-06-27	2024-06-28	Site2	1692	1551	34.56		5.437
2024-07-11	2024-07-15	Site2	1990	1702	152.41		3.111
2024-07-15	2024-07-18	Site2	1154	587	281.87		2.373
2024-07-18	2024-07-22	Site2	4735	2995	378.22		11.275
2024-07-22	2024-07-25	Site2	3574	1538	362.82		4.074
2024-07-25	2024-07-29	Site2	9897	2023	621.45		6.865
2024-07-29	2024-08-01	Site2	11343	733	425.06		2.811
2024-08-01	2024-08-05	Site2	15317	3057	601.0		8.162
2024-08-05	2024-08-08	Site2	10782	1745	519.63		5.97
2024-08-08	2024-08-12	Site2	2575	2115	393.24		4.762
2024-08-12	2024-08-15	Site2	2313	2095	340.06		6.45
2024-08-15	2024-08-19	Site2	1223	2476	291.71		4.313
2024-08-19	2024-08-22	Site2	982	973	256.96		2.238
2024-08-22	2024-08-26	Site2	2033	782	710.89		1.859
2024-08-26	2024-08-29	Site2	3034	1224	553.76		4.179
2024-08-29	2024-09-02	Site2	3529	1610	253.68		12.3
2024-09-02	2024-09-05	Site2	2777	845	111.39		7.11
2024-09-05	2024-09-09	Site2	2301	604	68.71		2.213
2024-09-09	2024-09-12	Site2	629	171	89.23		1.014
							Concluded

S7: Descriptive statistics of count and biomass values for site 1

Descriptive statistics for count and biomass for site 1 from the sample overview table (S4), including number of values (N), mean, standard deviation (S.D.), minimum (Min), and maximum (Max) values.

Variable	N	Mean	S.D.	Min	Max
Sensor Count	26	2361	2685	97	8856
Malaise Count	26	788	544	103	2799
Sensor Biomass (g)	26	123	99	13	350
Malaise Biomass (g)	26	2.9	2.2	0.43	11

S8: Descriptive statistics of count and biomass values for site 2

Descriptive statistics for count and biomass for site 2 from the sample overview table (S4), including number of values (N), mean, standard deviation (S.D.), minimum (Min), and maximum (Max) values.

Variable	N	Mean	S.D.	Min	Max
Sensor Count	26	3426	3894	207	15317
Malaise Count	26	1345	766	171	3057
Sensor Biomass (g)	26	260	215	24	711
Malaise Biomass (g)	26	4.5	2.9	0.96	12

S9: Shapiro-Wilk's test for normality

Shapiro-Wilk's test results for all variables for both sites 1-2, including P -value and level of significance:

$P < 0.001$ ***

$P < 0.01$ **

$P < 0.05$ *

$P > 0.05$ NS

Variable	P-Value	Significance
Site 1 - Malaise Count	0.000341	***
Site 1 - Malaise Biomass	0.000429	***
Site 1 - Sensor Count	0.000133	***
Site 1 - Sensor Biomass	0.024360	*
Site 2 - Malaise Count	0.156467	NS
Site 2 - Malaise Biomass	0.006753	**
Site 2 - Sensor Count	0.000006	***
Site 2 - Sensor Biomass	0.010702	*

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