

Table S1. The list of plant and pollinator species in the network of all study sites, non-invaded network, and invaded network.

Network	Plant species
The overall network (Figure 2a)	P1 <i>Ixora chinensis</i> Lamk. (Rubiaceae) P2 <i>Nephelium lappaceum</i> L. (Sapindaceae) P3 <i>Sesbania grandiflora</i> (L.) Poir. (Fabaceae) P4 <i>Wrightia religiosa</i> (Teijsm. & Binn.) Benth. ex (Apocynaceae) P5 <i>Ocimum basilicum</i> L. (Lamiaceae) P6 <i>Mimosa pudica</i> L. (Fabaceae) P7 <i>Scoparia dulcis</i> L. (Plantaginaceae) P8 <i>Sandoricum koetjape</i> (Burm. f.) Merr. (Meliaceae) P9 <i>Ocimum tenuiflorum</i> L. (Lamiaceae) P10 <i>Passiflora laurifolia</i> L. (Passifloraceae) P11 <i>Coffea arabica</i> L. (Rubiaceae) P12 <i>Streblus asper</i> Lour. (Moraceae) P13 <i>Justicia gendarussa</i> Burm. f. (Acanthaceae) P14 <i>Zea mays</i> L. (Poaceae) P15 <i>Cosmos bipinnatus</i> Cav. (Asteraceae) P16 <i>Ipomoea obscura</i> (L.) Ker Gawl. (Convolvulaceae) P17 <i>Vallaris glabra</i> (L.) Kuntze (Apocynaceae) P18 <i>Calotropis gigantea</i> (L.) Dryand. (Apocynaceae) P19 <i>Tagetes erecta</i> L. (Asteraceae) P20 <i>Glossocardia bidens</i> (Retz.) Veldkamp (Asteraceae) P21 <i>Allium fistulosum</i> L. (Amaryllidaceae) P22 <i>Hygrophila erecta</i> (Burm. f.) Hochr. (Acanthaceae) P23 <i>Muntingia calabura</i> L. (Muntingiaceae) P24 <i>Averrhoa bilimbi</i> L. (Oxalidaceae) P25 <i>Coccinia grandis</i> (L.) Voigt (Cucurbitaceae) P26 <i>Tridax procumbens</i> (L.) L. (Asteraceae) P27 <i>Lablab purpureus</i> (L.) Sweet. (Fabaceae) P28 <i>Centrosema pubescens</i> Benth. (Fabaceae) P29 <i>Rhinanthus nasutus</i> (L.) Kurz. (Acanthaceae) P30 <i>Tecoma stans</i> (L.) Kunth (Bignoniaceae) P31 <i>Punica granatum</i> L. granatum (Lythraceae) P32 <i>Nelumbo nucifera</i> Gaertn. (Nelumbonaceae) P33 <i>Nelumbo</i> sp.1 (Nelumbonaceae) P34 <i>Nelumbo</i> sp.2 (Nelumbonaceae) P35 <i>Gomphrena globosa</i> L. (Amaranthaceae) P36 <i>Zinnia violacea</i> Cav. (Asteraceae) P37 <i>Asystasia gangetica</i> (L.) T. Anderson subsp. <i>gangetica</i> (Acanthaceae) P38 <i>Bidens pilosa</i> L. (Asteraceae) P39 <i>Syzygium antisepticum</i> (Blume) Merr. & L. M. Perry (Myrtaceae) P40 <i>Cleome gynandra</i> L. (Cleomaceae) P41 <i>Cnidoscolus aconitifolius</i> (Mill.) I. M. Johnst. (Euphorbiaceae) P42 <i>Brassica juncea</i> (L.) Czern. (Brassicaceae) P43 <i>Eryngium foetidum</i> L. (Apiaceae) P44 <i>Anethum graveolens</i> L. (Apiaceae) P45 <i>Psidium guajava</i> L. (Myrtaceae) P46 <i>Capsicum annuum</i> L. (Solanaceae) P47 <i>Phytolacca americana</i> L. (Phytolacaceae) P48 <i>Benincasa hispida</i> (Thunb.) Cogn. (Cucurbitaceae) P49 <i>Solanum</i> sp. (Solanaceae) P50 <i>Solanum lycopersicum</i> L. (Solanaceae) P51 <i>Solanum incanum</i> L. (Solanaceae) P52 <i>Solanum torvum</i> Sw. (Solanaceae) P53 <i>Solanum melongena</i> L. (Solanaceae) P54 <i>Averrhoa carambola</i> L. (Oxalidaceae) P55 <i>Pithecellobium dulce</i> (Roxb.) Benth. (Fabaceae) P56 <i>Citrus aurantifolia</i> (Christm.) Swingle (Rutaceae) P57 <i>Bouea burmanica</i> Griff. (Anacardiaceae) P58 <i>Cocos nucifera</i> L. (Arecaceae) P59 <i>Mangifera indica</i> Linn. (Anacardiaceae) P60 <i>Carissa carandas</i> L. (Apocynaceae) P61 <i>Momordica charantia</i> L. (Cucurbitaceae) P62 <i>Moringa oleifera</i> Lam. (Moringaceae) P63 <i>Carica papaya</i> L. (Caricaceae) P64 <i>Morinda citrifolia</i> L. (Rubiaceae) P65 <i>Nicotiana tabacum</i> L. (Solanaceae) P66 <i>Dimocarpus longan</i> Lour. (Sapindaceae) P67 <i>Litchi chinensis</i> Sonn. (Sapindaceae) P68 <i>Citrus maxima</i> (Burm.f.) Merr. (Rutaceae)

Network

Plant species

P69 *Telosma cordata* (Burm. f.) Merr. (Apocynaceae)
 P70 *Azadirachta indica* A. Juss. (Meliaceae)
 P71 *Praxelis clematidae* RM King & H. Rob (Asteraceae)

P72 *Heliotropium indicum* L. (Boraginaceae)
 P73 *Areca catechu* L. (Arecaceae)

Pollinator species			
A1 <i>Apis cerana</i>	A34 <i>Xylocopa</i> sp.1	A67 <i>Vespid</i> sp.7	A100 <i>Tephritisidae</i> sp.1
A2 <i>Apis florea</i>	A35 <i>Xylocopa</i> sp.2	A68 <i>Formicid</i> sp.1	A101 <i>Tephritisidae</i> sp.2
A3 <i>Amegilla</i> sp.1	A36 <i>Xylocopa aestuans</i>	A69 <i>Formicid</i> sp.2	A102 <i>Dolichopodid</i> sp.2
A4 <i>Amegilla</i> sp.2	A37 <i>Xylocopa</i> sp.4	A70 <i>Anoplolepis gracilipes</i>	A103 <i>Musca</i> sp.
A5 <i>Apidae</i> sp.1	A38 <i>Xylocopa</i> sp.5	A71 <i>Formicid</i> sp.6	A104 <i>Lixophaga</i> sp.
A6 <i>Apidae</i> sp.2	A39 <i>Amegilla</i> sp.3	A72 <i>Formicid</i> sp.7	A105 <i>Syritta</i> sp.
A7 <i>Halictid</i> sp.2	A40 <i>Amegilla</i> sp.4	A73 <i>Formicid</i> sp.8	A106 <i>Tephritisidae</i> sp.
A8 <i>Andrena</i> sp.2	A41 <i>Megachile disjuncta</i>	A74 <i>Formicid</i> sp.9	A107 <i>Mesembrius bengalensis</i>
A9 <i>Andrena</i> sp.3	A42 <i>Euaspis</i> sp.	A75 <i>Formicid</i> sp.10	A108 <i>Dideopsis aegrota</i>
A10 <i>Halictid</i> sp.3	A43 <i>Apidae</i> sp.4	A76 <i>Formicid</i> sp.5	A109 <i>Syrphidae</i> sp.2
A11 <i>Ceratina</i> sp.	A44 <i>Megascolia</i> sp.1	A77 <i>Formicid</i> sp.3	A110 <i>Episyrrhus</i> sp.2
A12 <i>Halictid</i> sp.4	A45 <i>Megascolia</i> sp.2	A78 <i>Formicid</i> sp.11	A111 <i>Syrphidae</i> sp.3
A13 <i>Symmorphus</i> sp.	A46 <i>Megascolia</i> sp.4	A79 <i>Formicid</i> sp.12	A112 Small-yellow fly
A14 <i>Apidae</i> sp.5	A47 <i>Megascolia</i> sp.5	A80 <i>Formicid</i> sp.13	A113 <i>Sarcophagidae</i> sp.5
A15 <i>Halictid</i> sp.7	A48 <i>Vespid</i> sp.5	A81 Banded fly	A114 <i>Sarcophagidae</i> sp.7
A16 <i>Augochlora</i> sp.	A49 <i>Vespid</i> sp.12	A82 <i>Stratiomyid</i> sp.2	A115 <i>Sarcophagidae</i> sp.6
A17 <i>Andrena</i> sp.1	A50 <i>Eumeninae</i> sp.1	A83 <i>Sarcophagidae</i> sp.4	A116 <i>Stratiomyid</i> sp.7
A18 <i>Tetragonilla</i> sp.2	A51 <i>Vespid</i> sp.4	A84 <i>Calliphoridae</i> sp.1	A117 <i>Stomorrhina</i> sp.
A19 <i>Tetragonilla</i> sp.3	A52 <i>Eumeninae</i> sp.2	A85 <i>Helophilus</i> sp.	A118 <i>Episyrrhus</i> sp.1
A20 <i>Tetragonilla</i> sp.4	A53 <i>Polistinae</i> sp.1	A86 <i>Stratiomyid</i> sp.9	A119 <i>Stratiomyid</i> sp.8
A21 <i>Tetragonilla</i> sp.5	A54 <i>Polistinae</i> sp.2	A87 <i>Stratiomyid</i> sp.3	A120 <i>Stratiomyid</i> sp.5
A22 <i>Halictid</i> sp.5	A55 <i>Vespid</i> sp.1	A88 <i>Stratiomyid</i> sp.6	A121 Metallic-black fly
A23 <i>Halictid</i> sp.6	A56 <i>Vespid</i> sp.2	A89 <i>Dolichopodid</i> sp.1	A122 Black-white fly
A24 <i>Megachile</i> sp.1	A57 <i>Phimenes</i> sp.	A90 <i>Stratiomyid</i> sp.1	A123 White fly
A25 <i>Tetragonula</i> sp.1	A58 <i>Eumeninae</i> sp.3	A91 <i>Lucilia illustris</i>	A124 <i>Stratiomyid</i> sp.4
A26 <i>Tetragonula</i> sp.2	A59 <i>Vespid</i> sp.3	A92 <i>Sarcophagidae</i> sp.1	A125 <i>Syrphidae</i> sp.1
A27 <i>Halictid</i> sp.1	A60 <i>Vespid</i> sp.8	A93 <i>Sarcophagidae</i> sp.2	A126 <i>Drosophila</i> sp.2
A28 <i>Lophotrigona</i> sp.	A61 <i>Vespid</i> sp.9	A94 <i>Sarcophaga</i> sp.	A127 <i>Drosophila</i> sp.1
A29 <i>Tetragonilla</i> sp.1	A62 <i>Vespid</i> sp.10	A95 <i>Muscid</i> sp.1	A128 <i>Papilio demolion</i>
A30 <i>Apidae</i> sp.3	A63 <i>Vespid</i> sp.11	A96 <i>Calliphoridae</i> sp.2	A129 <i>Catopsilia pomona</i>
A31 <i>Megachile</i> sp.2	A64 <i>Campsomerinae</i> sp.	A97 <i>Muscid</i> sp.2	A130 <i>Catopsilia scylla</i>
A32 <i>Megachile</i> sp.3	A65 <i>Pompilidae</i> sp.1	A98 <i>Muscid</i> sp.3	A131 <i>Papilio demoleus</i>
A33 <i>Xylocopa</i> sp.3	A66 <i>Eumeninae</i> sp.5	A99 <i>Muscid</i> sp.4	A132 <i>Pseudozizeeria maha</i>

Network

Pollinator species

A133 <i>Everes huegelii</i>	A145 <i>Papilio polytes</i>	A157 <i>Euploea</i> sp.	A169 <i>Coccinella</i> sp.2	
A134 <i>Tongeia</i> sp.1	A146 <i>Castalius rosimon</i>	A158 <i>Hypolimnas bolina</i>	A170 <i>Coreidae</i> sp.	
A135 <i>Zizina otis</i>	A147 <i>Pachliopta aristolochiae</i>	A159 <i>Junonia iphita</i>	A171 <i>Pentatomidae</i> sp.3	
A136 <i>Tongeia</i> sp.2	A148 <i>Neptis hylas</i>	A160 <i>Cirrochroa tyche</i>	A172 <i>Pentatomidae</i> sp.2	
A137 <i>Euthalia aconthea</i>	A149 <i>Melanitis leda</i>	A161 <i>Coccinella</i> sp.1	A173 <i>Pentatomidae</i> sp.1	
A138 <i>Acraea violae</i>	A150 <i>Papilio</i> sp.	A162 <i>Mordellistina</i> sp.1	A174 <i>Spilostethus</i> sp.	
A139 <i>Amata sperbius</i>	A151 <i>Leptotes plinius</i>	A163 <i>Glycyphana</i> sp.2	A175 <i>Eocanthecona furcellata</i>	
A140 <i>Danaus chrysippus</i>	A152 <i>Euploea core</i>	A164 <i>Mordellistina</i> sp.2	A176 <i>Megacopta</i> sp.	
A141 <i>Telicota colon</i>	A153 <i>Potanthus confucius</i>	A165 <i>Coccinella</i> sp.3	A177 Dragonfly (Libellulidae)	
A142 <i>Papilio memnon</i>	A154 <i>Acraea</i> sp.	A166 <i>Cheilomenes sexmaculata</i>		
A143 <i>Erionota torus</i>	A155 <i>Euripus</i> sp.	A167 <i>Coccinella trasversalis</i>		
A144 <i>Eurema hecabe</i>	A156 <i>Elymnias malelas</i>	A168 <i>Glycyphana</i> sp.1		
Network	Plant species			
Non-invaded network (Figure 2b)	P1 <i>Sesbania grandiflora</i> (L.) Poir. (Fabaceae) P2 <i>Wrightia religiosa</i> (Teijsm. & Binn.) Benth. ex Kurz (Apocynaceae) P3 <i>Scoparia dulcis</i> L. (Plantaginaceae) P4 <i>Ocimum tenuiflorum</i> L. (Lamiaceae) P5 <i>Passiflora laurifolia</i> L. (Passifloraceae) P6 <i>Cosmos bipinnatus</i> Cav. (Asteraceae) P7 <i>Ipomoea obscura</i> (L.) Ker Gawl. (Convolvulaceae) P8 <i>Vallaris glabra</i> (L.) Kuntze (Apocynaceae) P9 <i>Allium fistulosum</i> L. (Amaryllidaceae) P10 <i>Averrhoa bilimbi</i> L. (Oxalidaceae) P11 <i>Coccinia grandis</i> (L.) Voigt (Cucurbitaceae) P12 <i>Lablab purpureus</i> (L.) Sweet. (Fabaceae) P13 <i>Tecoma stans</i> (L.) Kunth (Bignoniaceae) P14 <i>Punica granatum</i> L. <i>granatum</i> (Lythraceae) P15 <i>Nelumbo nucifera</i> Gaertn. (Nelumbonaceae) P16 <i>Asystasia gangetica</i> (L.) T. Anderson subsp. <i>gangetica</i> (Acanthaceae) P17 <i>Cleome gynandra</i> L. (Cleomaceae) P18 <i>Cnidoscolus aconitifolius</i> (Mill.) I. M. Johnst. (Euphorbiaceae) P19 <i>Anethum graveolens</i> L. (Apiaceae)	P20 <i>Psidium guajava</i> L. (Myrtaceae) P21 <i>Phytolacca americana</i> L. (Phytolacaceae) P22 <i>Solanum incanum</i> L. (Solanaceae) P23 <i>Solanum torvum</i> Sw. (Solanaceae) P24 <i>Solanum melongena</i> L. (Solanaceae) P25 <i>Pithecellobium dulce</i> (Roxb.) Benth. (Fabaceae) P26 <i>Citrus aurantifolia</i> (Christm.) Swingle (Rutaceae) P27 <i>Bouea burmanica</i> Griff. (Anacardiaceae) P28 <i>Cocos nucifera</i> L. (Arecaceae) P29 <i>Mangifera indica</i> L. (Anacardiaceae) P30 <i>Carissa carandas</i> L. (Apocynaceae) P31 <i>Momordica charantia</i> L. (Cucurbitaceae) P32 <i>Moringa oleifera</i> Lam. (Moringaceae) P33 <i>Carica papaya</i> L. (Caricaceae) P34 <i>Morinda citrifolia</i> L. (Rubiaceae) P35 <i>Dimocarpus longan</i> Lour. (Sapindaceae) P36 <i>Citrus maxima</i> (Burm.f.) Merr. (Rutaceae) P37 <i>Heliotropium indicum</i> L. (Boraginaceae) P38 <i>Areca catechu</i> L. (Arecaceae)		
Network	Pollinator species			
	A1 <i>Apis cerana</i> A2 <i>Apis florea</i> A3 <i>Amegilla</i> sp.1 A4 <i>Apidae</i> sp.1	A5 <i>Vespidae</i> sp.6 A6 <i>Xylocopa</i> sp.1 A7 <i>Xylocopa</i> sp.2 A8 <i>Xylocopa aestuans</i>	A9 <i>Lophotrigona</i> sp. A10 <i>Tetragonilla</i> sp.1 A11 <i>Halictid</i> sp.2 A12 <i>Andrena</i> sp.2	A13 <i>Halictid</i> sp.3 A14 <i>Halictid</i> sp.3 A15 <i>Ceratina</i> sp. A16 <i>Halictid</i> sp.4
Network	Pollinator species			

A17 <i>Symmorphus</i> sp.	A42 <i>Vespid</i> sp.12	A67 <i>Stratiomyid</i> sp.1	A92 <i>Catopsilia pomona</i>
A18 <i>Andrena</i> sp.1	A43 <i>Vespid</i> sp.8	A68 <i>Lucilia illustris</i>	A93 <i>Catopsilia scylla</i>
A19 <i>Megachile disjuncta</i>	A44 <i>Vespid</i> sp.9	A69 <i>Sarcophagidae</i> sp.1	A94 <i>Papilio demoleus</i>
A20 <i>Euaspis</i> sp.	A45 <i>Vespid</i> sp.1	A70 <i>Sarcophagidae</i> sp.2	A95 <i>Pseudozizeeria maha</i>
A21 <i>Xylocopa</i> sp.4	A46 <i>Vespid</i> sp.11	A71 <i>Sarcophaga</i> sp.	A96 <i>Everes huegelii</i>
A22 <i>Xylocopa</i> sp.5	A47 <i>Vespa tropica</i>	A72 <i>Tephritidae</i> sp.1	A97 <i>Tongeia</i> sp.1
A23 <i>Megachile</i> sp.2	A48 <i>Apidae</i> sp.2	A73 <i>Tephritidae</i> sp.2	A98 <i>Tongeia</i> sp.2
A24 <i>Megachile</i> sp.3	A49 <i>Campsomerinae</i> sp.	A74 <i>Musca</i> sp.	A99 <i>Euthalia aconthea</i>
A25 <i>Megascolia</i> sp.2	A50 <i>Formicid</i> sp.4	A75 <i>Lixophaga</i> sp.	A100 <i>Telicota colon</i>
A26 <i>Megascolia</i> sp.4	A51 <i>Formicid</i> sp.6	A76 <i>Syritta</i> sp.	A101 <i>Melanitis leda</i>
A27 <i>Amegilla</i> sp.3	A52 <i>Formicid</i> sp.7	A77 <i>Helophilu</i> sp.	A102 <i>Leptotes plinius</i>
A28 <i>Amegilla</i> sp.4	A53 <i>Formicid</i> sp.8	A78 <i>Mesembrius bengalensis</i>	A103 <i>Acraea</i> sp.
A29 <i>Halictid</i> sp.4	A54 <i>Formicid</i> sp.9	A79 <i>Dideopsis aegrota</i>	A104 <i>Euripus</i> sp.
A30 <i>Tetragonula</i> sp.1	A55 <i>Formicid</i> sp.1	A80 <i>Syrphidae</i> sp.1	A105 <i>Euploea</i> sp.
A31 <i>Tetragonula</i> sp.2	A56 <i>Formicid</i> sp.3	A81 <i>Metallic-black fly</i>	A106 <i>Hypolimnas bolina</i>
A32 <i>Pompilidae</i> sp.1	A57 <i>Formicid</i> sp.12	A82 <i>Black-white fly</i>	A107 <i>Junonia iphita</i>
A33 <i>Polistinae</i> sp.2	A58 <i>Stratiomyid</i> sp.2	A83 <i>White fly</i>	A108 <i>Cirrochroa tyche</i>
A34 <i>Eumeninae</i> sp.1	A59 <i>Stomorhina</i> sp.	A84 <i>Muscid</i> sp.4	A109 <i>Mordellistina</i> sp.2
A35 <i>Eumeninae</i> sp.2	A60 <i>Small-yellow fly</i>	A85 <i>Drosophila</i> sp.1	A110 <i>Glycyphana</i> sp.1
A36 <i>Polistinae</i> sp.1	A61 <i>Sarcophagidae</i> sp.5	A86 <i>Amata sperbius</i>	A111 <i>Coreidae</i> sp.
A37 <i>Phimenes</i> sp.	A62 <i>Stomorhina</i> sp.	A87 <i>Erionota torus</i>	A112 <i>Coccinella trasversalis</i>
A38 <i>Eumeninae</i> sp.3	A63 <i>Episyrrhus</i> sp.1	A88 <i>Papilio demolion</i>	A113 <i>Pentatomidae</i> sp.1
A39 <i>Formicid</i> sp.1	A64 <i>Helophilu</i> sp.	A89 <i>Papilio polytes</i>	A114 <i>Megacopta</i> sp.
A40 <i>Formicid</i> sp.2	A65 <i>Stratiomyid</i> sp.3	A90 <i>Pachliopta aristolochiae</i>	A115 <i>Spider</i>
A41 <i>Apidae</i> sp.3	A66 <i>Dolichopodid</i> sp.1	A91 <i>Papilio memnon</i>	

Network

Invaded network

(Figure 2c)

P1 *Nephelium lappaceum* L. (Sapindaceae)

P2 *Mimosa pudica* L. (Fabaceae)

P3 *Solanum torvum* Sw. (Solanaceae)

P4 *Mangifera indica* L. (Anacardiaceae)

P5 *Dimocarpus longan* Lour. (Sapindaceae)

P6 *Sesbania grandiflora* (L.) Poir. (Fabaceae)

P7 *Sandoricum koetjape* (Burm. f.) Merr. (Meliaceae)

P8 *Zea mays* L. (Poaceae)

P9 *Tridax procumbens* (L.) L. (Asteraceae)

P10 *Gomphrena globosa* L. (Amaranthaceae)

P11 *Capsicum annuum* L. (Solanaceae)

Plant species

P12 *Averrhoa carambola* L. (Oxalidaceae)

P13 *Azadirachta indica* A. Juss. (Meliaceae)

P14 *Praxelis clematidae* RM King & H. Rob (Asteraceae)

P15 *Calotropis gigantea* (L.) Dryand. (Apocynaceae)

P16 *Syzygium antisepticum* (Blume) Merr. & L. M. Perry (Myrtaceae)

P17 *Solanum incanum* L. (Solanaceae)

P18 *Bouea burmanica* Griff. (Anacardiaceae)

P19 *Litchi chinensis* Sonn. (Sapindaceae)

P20 *Carica papaya* L. (Caricaceae)

P21 *Rhinacanthus nasutus* (L.) Kurz. (Acanthaceae)

P22 *Citrus aurantifolia* (Christm.) Swingle (Rutaceae)

Network

Plant species

P23 *Nicotiana tabacum* L. (Solanaceae)
 P24 *Telosma cordata* (Burm. f.) Merr. (Apocynaceae)
 P25 *Ixora chinensis* Lamk. (Rubiaceae)
 P26 *Ocimum basilicum* L. (Lamiaceae)
 P27 *Ocimum tenuiflorum* L. (Lamiaceae)
 P28 *Coccinia grandis* (L.) Voigt (Cucurbitaceae)
 P29 *Centrosema pubescens* Benth. (Fabaceae)
 P30 *Tecoma stans* (L.) Kunth (Bignoniaceae)
 P31 *Asystasia gangetica* (L.) T. Anderson subsp. *Gangetica* (Acanthaceae)
 P32 *Benincasa hispida* (Thunb.) Cogn. (Cucurbitaceae)
 P33 *Carissa carandas* L. (Apocynaceae)
 P34 *Brassica juncea* (L.) Czern. (Brassicaceae)
 P35 *Eryngium foetidum* L. (Apiaceae)
 P36 *Anethum graveolens* L. (Apiaceae)

P37 *Solanum lycopersicum* L. (Solanaceae)
 P38 *Coffea arabica* L. (Rubiaceae)
 P39 *Muntingia calabura* L. (Muntingiaceae)
 P40 *Cocos nucifera* L. (Arecaceae)
 P41 *Moringa oleifera* Lam. (Moringaceae)
 P42 *Justicia gendarussa* Burm. f. (Acanthaceae)
 P43 *Tagetes erecta* L. (Asteraceae)
 P44 *Streblus asper* Lour. (Moraceae)
 P45 *Glossocardia bidens* (Retz.) Veldkamp (Asteraceae)
 P46 *Hygrophila erecta* (Burm. f.) Hochr. (Acanthaceae)
 P47 *Zinnia violacea* Cav. (Asteraceae)
 P48 *Bidens pilosa* L. (Asteraceae)
 P49 *Areca catechu* L. (Arecaceae)

Pollinator species			
A1 <i>Apis cerana</i>	A23 <i>Amegilla</i> sp.3	A45 <i>Formicid</i> sp.3	A67 <i>Dolichopodid</i> sp.2
A2 <i>Apis florea</i>	A24 <i>Megachile</i> sp.2	A46 <i>Formicid</i> sp.11	A68 <i>Musca</i> sp.
A3 <i>Amegilla</i> sp.1	A25 <i>Apidae</i> sp.2	A47 <i>Formicid</i> sp.13	A69 <i>Syritta</i> sp.
A4 <i>Amegilla</i> sp.2	A26 <i>Xylocopa</i> sp.3	A48 Banded fly	A70 <i>Tephritisidae</i> sp.
A5 <i>Xylocopa</i> sp.1	A27 <i>Apidae</i> sp.4	A49 Small-banded fly	A71 <i>Helophilu</i> sp.
A6 <i>Xylocopa aestuans</i>	A28 <i>Vespid</i> sp.5	A50 <i>Sarcophagidae</i> sp.5	A72 <i>Mesembrius bengalensis</i>
A7 <i>Halictid</i> sp.1	A29 <i>Vespid</i> sp.6	A51 <i>Sarcophagidae</i> sp.6	A73 <i>Episyphus</i> sp.2
A8 <i>Tetragonilla</i> sp.2	A30 <i>Vespid</i> sp.8	A52 <i>Sarcophagidae</i> sp.7	A74 <i>Stomorhina</i> sp.
A9 <i>Tetragonilla</i> sp.3	A31 <i>Vespid</i> sp.9	A53 <i>Sarcophagidae</i> sp.4	A75 <i>Stratiomyid</i> sp.7
A10 <i>Tetragonilla</i> sp.4	A32 <i>Vespid</i> sp.1	A54 <i>Calliphoridae</i> sp.1	A76 <i>Episyphus</i> sp.1
A11 <i>Tetragonilla</i> sp.5	A33 <i>Megascolia</i> sp.1	A55 <i>Helophilu</i> sp.	A77 <i>Lixophaga</i> sp.
A12 <i>Halictid</i> sp.2	A34 <i>Megascolia</i> sp.5	A56 <i>Stratiomyid</i> sp.9	A78 <i>Stratiomyid</i> sp.3
A13 <i>Andrena</i> sp.2	A35 <i>Eumeninae</i> sp.1	A57 <i>Stratiomyid</i> sp.6	A79 Black-white fly
A14 <i>Andrena</i> sp.3	A36 <i>Vespid</i> sp.4	A58 <i>Lucilia illustris</i>	A80 <i>Stratiomyid</i> sp.4
A15 <i>Halictid</i> sp.3	A37 <i>Eumeninae</i> sp.2	A59 <i>Sarcophaga</i> sp.	A81 <i>Drosophila</i> sp.2
A16 <i>Ceratina</i> sp.	A38 <i>Polistinae</i> sp.1	A60 <i>Sarcophagidae</i> sp.3	A82 <i>Drosophila</i> sp.1
A17 <i>Symmorphus</i> sp.	A39 <i>Vespid</i> sp.1	A61 <i>Calliphoridae</i> sp.2	A83 <i>Eurema hecate</i>
A18 <i>Apidae</i> sp.5	A40 <i>Vespid</i> sp.2	A62 <i>Muscid</i> sp.1	A84 <i>Papilio polytes</i>
A19 <i>Halictid</i> sp.7	A41 <i>Eumeninae</i> sp.3	A63 <i>Muscid</i> sp.2	A85 <i>Castalius rosimon</i>
A20 <i>Andrena</i> sp.1	A42 <i>Vespid</i> sp.3	A64 <i>Muscid</i> sp.3	A86 <i>Neptis hylas</i>
A21 <i>Halictid</i> sp.6	A43 <i>Formicid</i> sp.4	A65 <i>Muscid</i> sp.4	A87 <i>Papilio memnon</i>
A22 <i>Halictid</i> sp.4	A44 <i>Formicid</i> sp.5	A66 <i>Tephritisidae</i> sp.1	A88 <i>Catopsilia pomona</i>

Network

Pollinator species

A89 <i>Catopsilia scylla</i>	A95 <i>Elymnias patna</i>	A101 <i>Mordellistina sp.1</i>	A107 <i>Glycyphana sp.1</i>
A90 <i>Zizina otis</i>	A96 <i>Euploea core</i>	A102 <i>Glycyphana sp.2</i>	A108 <i>Coccinella sp.2</i>
A91 <i>Papilio demoleus</i>	A97 <i>Acraea sp.</i>	A103 <i>Cheilomenes sexmaculata</i>	A109 <i>Pentatomidae sp.1</i>
A92 <i>Pseudozizeeria maha</i>	A98 <i>Elymnias malelas</i>	A104 <i>Coccinella sp.3</i>	A110 <i>Pentatomidae sp.2</i>
A93 <i>Everes huegelii</i>	A99 <i>Acraea violae</i>	A105 <i>Coccinella trasversalis</i>	A111 <i>Spilostethus sp.</i>
A94 <i>Danaus chrysippus</i>	A100 <i>Coccinella sp.1</i>	A106 <i>Coreidae sp.</i>	A112 <i>Pentatomidae sp.3</i>
			A113 Dragonfly (Libellulidae)

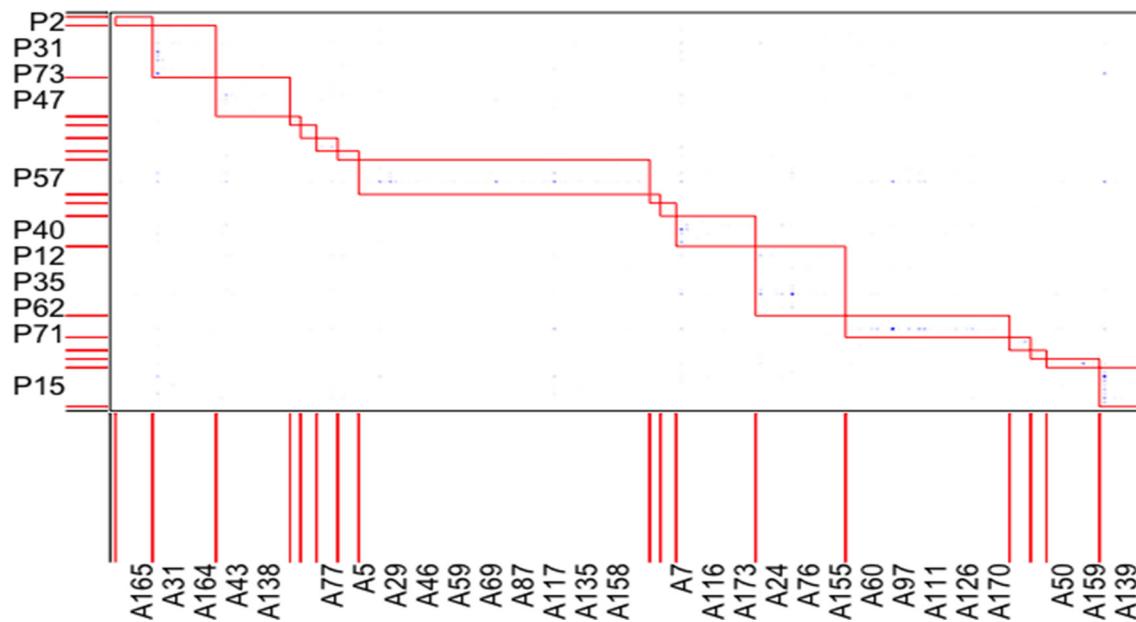


Figure S1. Modularity plot for the network of all study sites.

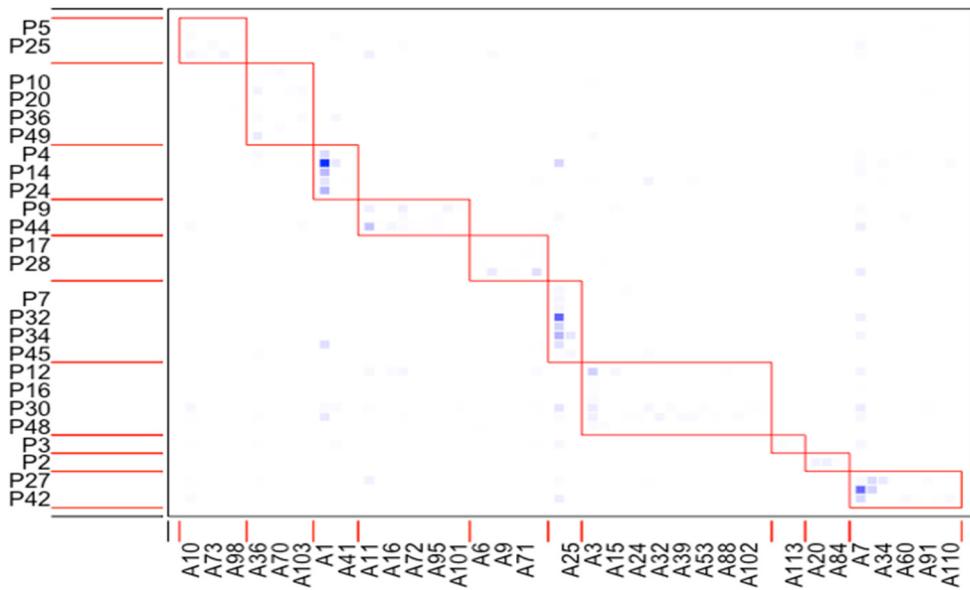


Figure S2. Modularity plot for the invaded network.

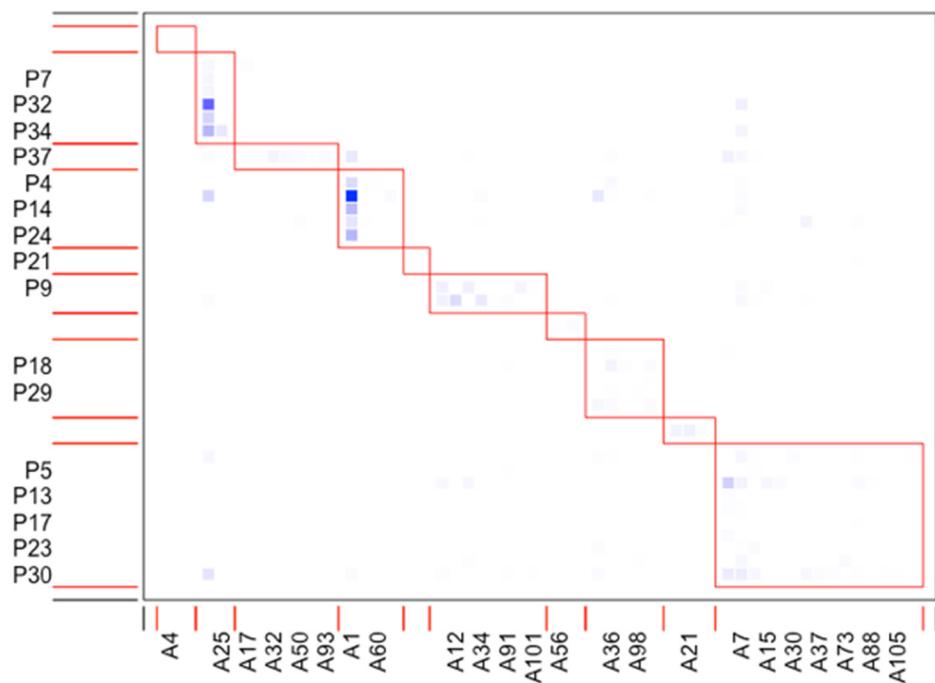


Figure S3. Modularity plot for the non-invaded network.

Table S2. Mean value of participation coefficients (c) and within-module degree (z) values for different pollinator groups. To assess different between invasion states, we used Wilcoxon rank sum test. $^{NS} p > 0.05$

Order	Mean c -value		p-value	Mean z -value		p-value
	Invaded	Non-invaded		Invaded	Non-invaded	
Hymenoptera	0.23	0.15	0.20 ^{NS}	0.36	0.26	0.75 ^{NS}
Diptera	0.08	0.06	0.61 ^{NS}	-0.26	-0.39	0.63 ^{NS}
Lepidoptera	0.09	0.11	0.63 ^{NS}	-0.32	-0.45	0.61 ^{NS}
Others	0.08	0.00	0.42 ^{NS}	-0.40	-0.52	0.71 ^{NS}

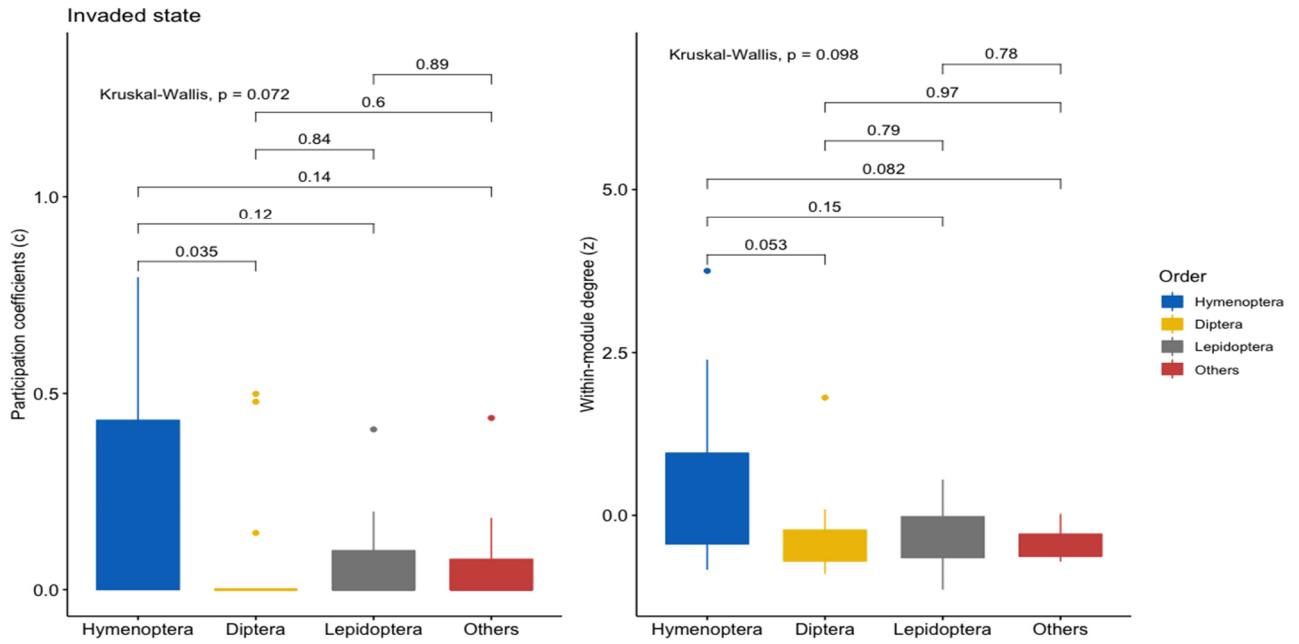


Figure S4. Boxplot showing the participation coefficients (c, left) and the within-module degree (z, right) values for different pollinator groups in the invaded network. To assess different between pollinator groups, we used Wilcoxon rank sum test and used Kruskal-Wallis test assessed different of all pollinator groups.

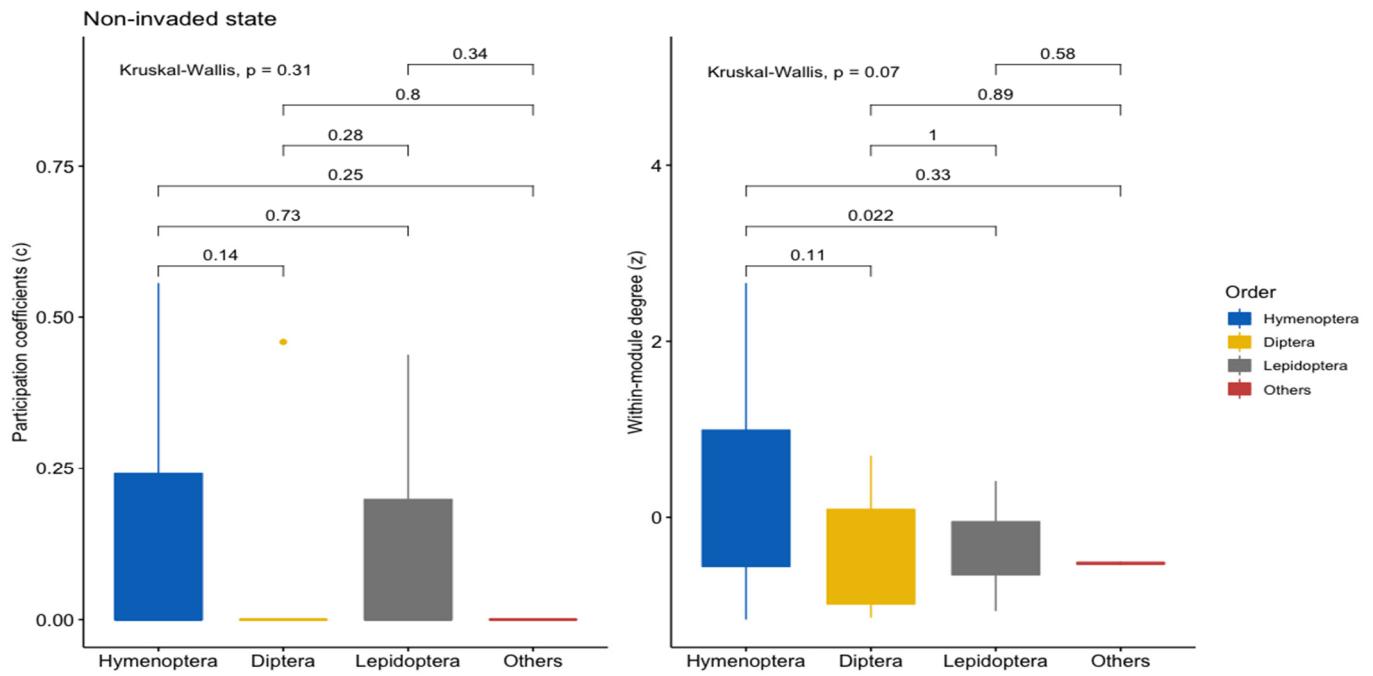


Figure S5. Boxplot showing the participation coefficients (c, left) and the within-module degree (z, right) values for different pollinator groups in the non-invaded network. To assess different between pollinator groups, we used Wilcoxon rank sum test used Kruskal-Wallis test assessed different of all pollinator groups.

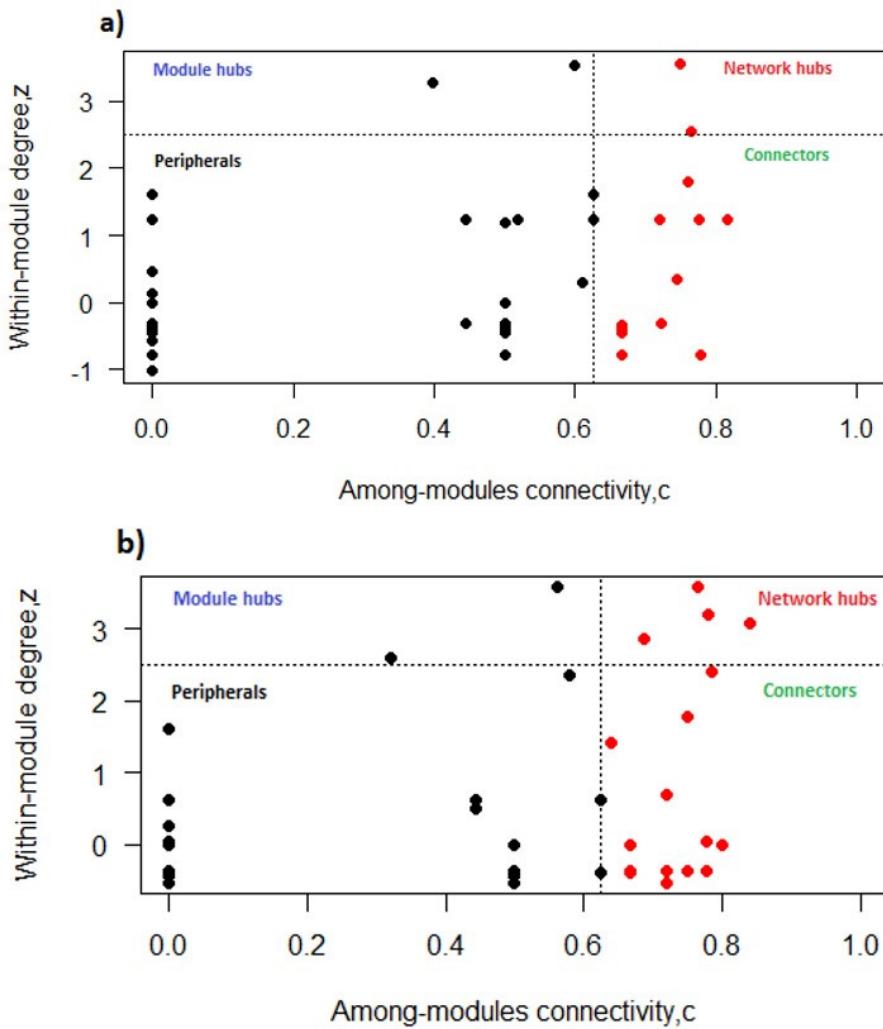


Figure S6. cz -plot showing the distribution of pollinators according to their network role of **a)** invaded network, with three network hubs and two module hubs, and **b)** non-invaded network, with four network hubs and two module hubs. Dashed black lines indicate critical values ($c = 0.625$ and $z = 2.5$) according to Olesen et al. (2007).

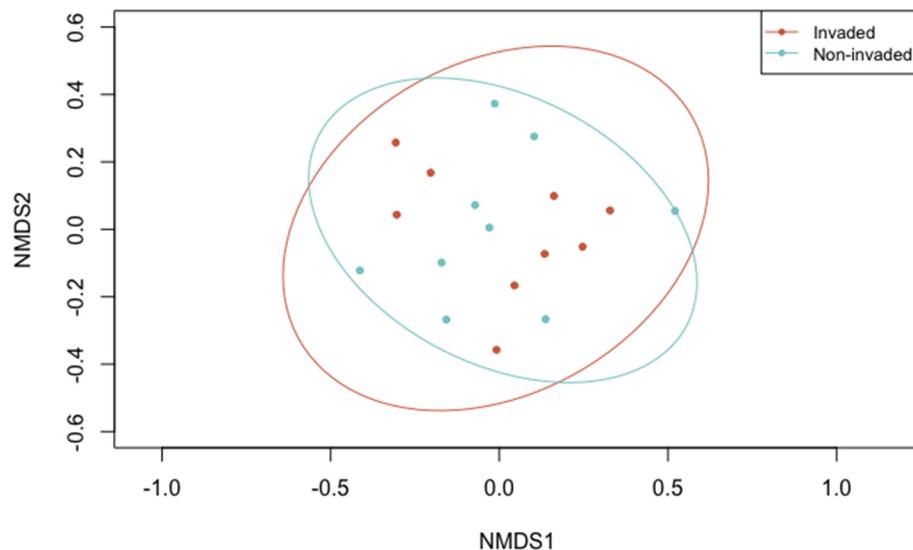


Figure S7. Community composition of all pollinator species at the invaded and non-invaded sites (NMDS plot including 95% ellipses; Stress = 0.17).

Table S3. Generalized Linear Models (GLMs) selection for each dependent variable.

Dependent variables	Model	AICc
All pollinator richness (Agriculture 3km)	All richness ~ A3km*P.richness+system	127.57
	All richness ~ A3km*P.richness*flower+system	128.94
	All richness ~ A3km *P.richness+flower+system	129.42
	All richness ~ A3km *P.richness*system	132.17
	All richness ~ A3km *P.richness*flower*system	135.19
	All richness ~ A3km +system	135.99
	All richness ~ A3km +P.richness+system	136.73
	All richness ~ A3km *system	137.17
	All richness ~ A3km+P.richness+flower+system	137.45
All pollinator richness (Forest 3km)	All richness ~ F3km*P.richness*flower*system	124.55
	All richness ~ F3km*P.richness*system	128.97
	All richness ~ F3km*P.richness*flower+system	131.05
	All richness ~ F3km*P.richness+system	135.46
	All richness ~ F3km+system	137.28
	All richness ~ F3km*P.richness+flower+system	137.34
	All richness ~ F3km*system	138.04
	All richness ~ F3km+P.richness+system	138.47
	All richness ~ F3km+P.richness+flower+system	139.07
All pollinator richness (Urban 3km)	All richness ~ U3km*P.richness*flower*system	124.24
	All richness ~ U3km*P.richness+flower+system	129.36
	All richness ~ U3km+P.richness+system	129.98
	All richness ~ U3km*P.richness*system	131.86
	All richness ~ U3km*P.richness*flower+system	133.36
	All richness ~ U3km+system	137.03
	All richness ~ U3km*system	137.06
	All richness ~ U3km+P.richness+system	138.43
	All richness ~ U3km+P.richness+flower+system	139.27
	Hymenoptera ~ A3km*P.richness+system	111.61

Dependent variables	Model	AICc
Hymenoptera richness (Agriculture 3km)	Hymenoptera ~ A3km*P.richness*flower+system	112.52
	Hymenoptera ~ A3km*P.richness+flower+system	113.33
	Hymenoptera ~ A3km*P.richness*flower*system	115.23
	Hymenoptera ~ A3km*P.richness*system	116.69
	Hymenoptera ~ A3km+system	119.10
	Hymenoptera ~ A3km*system	121.03
	Hymenoptera ~ A3km+P.richness+system	121.10
	Hymenoptera ~ A3km+P.richness+flower+system	123.05
Hymenoptera richness (Forest 3km)	Hymenoptera ~ F3km*P.richness*flower*system	112.10
	Hymenoptera ~ F3km*P.richness*system	113.33
	Hymenoptera ~ F3km+system	120.29
	Hymenoptera ~ F3km*P.richness+system	120.35
	Hymenoptera ~ F3km+P.richness+system	122.16
	Hymenoptera ~ F3km*P.richness+flower+system	122.212
	Hymenoptera ~ F3km*system	122.215
	Hymenoptera ~ F3km*P.richness*flower+system	122.89
	Hymenoptera ~ F3km+P.richness+flower+system	123.97
Hymenoptera richness (Urban 3km)	Hymenoptera ~ U3km*P.richness*flower*system	111.63
	Hymenoptera ~ U3km*P.richness+system	117.14
	Hymenoptera ~ U3km*P.richness*system	118.17
	Hymenoptera ~ U3km*P.richness+flower+system	118.76
	Hymenoptera ~ U3km*system	119.98
	Hymenoptera ~ U3km+system	120.10
	Hymenoptera ~ U3km*P.richness*flower+system	121.37
	Hymenoptera ~ U3km+P.richness+system	122.00
	Hymenoptera ~ U3km+P.richness+flower+system	123.97
Diptera richness (Agriculture 3km)	Diptera ~ A3km+system	93.58
	Diptera ~ A3km*system	93.99
	Diptera ~ A3km+P.richness+system	95.24

Dependent variables	Model	AICc
Diptera richness (Forest 3km)	Diptera ~ A3km*P.richness+system	95.33
	Diptera ~ A3km*P.richness+flower+system	97.22
	Diptera ~ A3km+P.richness+flower+system	97.24
	Diptera ~ A3km*P.richness*flower+system	98.56
	Diptera ~ A3km*P.richness*system	98.70
	Diptera ~ A3km*P.richness*flower*system	108.20
	Diptera ~ F3km*system	93.22
	Diptera ~ F3km+system	93.55
	Diptera ~ F3km+P.richness+system	95.22
	Diptera ~ F3km*P.richness+system	95.69
Diptera richness (Urban 3km)	Diptera ~ F3km*P.richness*flower+system	95.90
	Diptera ~ F3km+P.richness+flower+system	97.22
	Diptera ~ F3km*P.richness+flower+system	97.41
	Diptera ~ F3km*P.richness*system	98.78
	Diptera ~ F3km*P.richness*flower*system	105.53
	Diptera ~ U3km+system	93.24
	Diptera ~ U3km*P.richness+system	93.70
	Diptera ~ U3km+P.richness+system	94.94
	Diptera ~ U3km*system	95.19
	Diptera ~ U3km*P.richness*flower+system	95.69
Lepidoptera richness (Agriculture 3km)	Diptera ~ U3km+P.richness+flower+system	96.86
	Diptera ~ U3km*P.richness*system	99.00
	Diptera ~ U3km*P.richness*flower+system	99.01
	Diptera ~ U3km*P.richness*flower*system	105.15
	Lepidoptera ~ A3km+P.richness+flower+system	76.31
	Lepidoptera ~ A3km+system	77.48
	Lepidoptera ~ A3km+P.richness+system	77.92
	Lepidoptera ~ A3km*P.richness+flower+system	78.17
	Lepidoptera ~ A3km*system	79.26

Dependent variables	Model	AICc
Lepidoptera richness (Forest 3km)	Lepidoptera ~ A3km*P.richness+system	79.91
	Lepidoptera ~ A3km*P.richness*flower+system	82.00
	Lepidoptera ~ A3km*P.richness*system	84.25
	Lepidoptera ~ A3km*P.richness*flower*system	93.12
	Lepidoptera ~ F3km+P.richness+system	76.28
	Lepidoptera ~ F3km+P.richness+flower+system	76.35
	Lepidoptera ~ F3km+system	76.39
	Lepidoptera ~ F3km*P.richness+flower+system	77.52
	Lepidoptera ~ F3km*P.richness+system	78.06
	Lepidoptera ~ F3km*system	78.31
Lepidoptera richness (Urban 3km)	Lepidoptera ~ F3km*P.richness*system	79.57
	Lepidoptera ~ F3km*P.richness*flower+system	80.71
	Lepidoptera ~ F3km*P.richness*flower*system	82.63
	Lepidoptera ~ U3km+P.richness+flower+system	79.09
	Lepidoptera ~ U3km+system	79.94
	Lepidoptera ~ U3km*P.richness+flower+system	80.55
	Lepidoptera ~ U3km+P.richness+system	81.26
	Lepidoptera ~ U3km*system	81.49
	Lepidoptera ~ U3km*P.richness+system	83.22
	Lepidoptera ~ U3km*P.richness*flower+system	83.86
All pollinator visitation rate (Agriculture 3km)	Lepidoptera ~ U3km*P.richness*flower*system	83.94
	Lepidoptera ~ U3km*P.richness*system	87.97
	AVR ~ A3km+system	160.20
	AVR ~ A3km*P.richness*system	160.81
	AVR ~ A3km*system	161.54
	AVR ~ A3km+P.richness+system	161.94
	AVR ~ A3km*P.richness+system	163.35
	AVR ~ A3km+P.richness+flower+system	163.65
	AVR ~ A3km*P.richness+flower+system	164.71

Dependent variables	Model	AICc
All pollinator visitation rate (Forest 3km)	AVR ~ A3km*P.richness*flower*system	168.39
	AVR ~ A3km*P.richness*flower+system	169.80
	AVR ~ F3km*P.richness*flower*system	126.97
	AVR ~ F3km+system	160.94
	AVR ~ F3km+P.richness+system	162.54
	AVR ~ F3km*system	162.63
	AVR ~ F3km+P.richness+flower+system	164.25
	AVR ~ F3km*P.richness+system	164.54
	AVR ~ F3km*P.richness+flower+system	166.18
	AVR ~ F3km*P.richness*flower+system	169.99
All pollinator visitation rate (Urban 3km)	AVR ~ F3km*P.richness*system	170.01
	AVR ~ U3km*system	160.45
	AVR ~ U3km+system	161.30
	AVR ~ U3km*P.richness+system	162.03
	AVR ~ U3km+P.richness+system	162.67
	AVR ~ U3km*P.richness+flower+system	164.03
	AVR ~ U3km+P.richness+flower+system	164.64
	AVR ~ U3km*P.richness*system	164.87
	AVR ~ U3km*P.richness*flower*system	167.09
	AVR ~ U3km*P.richness*flower+system	167.59
Hymenoptera visitation rate (Agriculture 3km)	HVR~ A3km+system	157.96
	HVR ~ A3km*system	158.19
	HVR ~ A3km+P.richness+system	159.79
	HVR ~ A3km*P.richness*system	161.10
	HVR ~ A3km*P.richness+system	161.44
	HVR ~ A3km+P.richness+flower+system	161.46
	HVR ~ A3km*P.richness*flower*system	163.24
	HVR ~ A3km*P.richness+flower+system	163.25
	HVR ~ A3km*P.richness*flower+system	166.59

Dependent variables	Model	AICc
Hymenoptera visitation rate (Forest 3km)	HVR ~ F3km*P.richness*flower*system	120.13
	HVR ~ F3km+system	158.96
	HVR ~ F3km+P.richness+system	160.92
	HVR ~ F3km*system	160.94
	HVR ~ F3km+P.richness+flower+system	162.52
	HVR ~ F3km*P.richness+system	162.90
	HVR ~ F3km*P.richness+flower+system	164.33
	HVR ~ F3km*P.richness*flower+system	166.75
	HVR ~ F3km*P.richness*system	168.36
Hymenoptera visitation rate (Urban 3km)	HVR ~ U3km*P.richness*flower*system	155.01
	HVR ~ U3km*system	157.86
	HVR ~ U3km+system	158.79
	HVR ~ U3km*P.richness+flower+system	160.24
	HVR ~ U3km*P.richness*flower+system	160.33
	HVR ~ U3km*P.richness+system	160.77
	HVR ~ U3km+P.richness+system	160.79
	HVR ~ U3km+P.richness+flower+system	161.11
	HVR ~ U3km*P.richness*system	162.95
Diptera visitation rate (Agriculture 3km)	DVR ~ A3km*P.richness*system	134.27
	DVR ~ A3km*P.richness*flower*system	137.61
	DVR ~ A3km+P.richness+system	139.98
	DVR ~ A3km+system	140.49
	DVR ~ A3km*P.richness+system	140.53
	DVR ~ A3km+P.richness+flower+system	141.90
	DVR ~ A3km*P.richness+flower+system	142.10
	DVR ~ A3km*system	142.10
	DVR ~ A3km*P.richness*flower+system	145.24
Diptera visitation rate (Forest 3km)	DVR ~ F3km*P.richness*flower*system	81.85
	DVR ~ F3km*P.richness*flower+system	137.53

Dependent variables	Model	AICc
Diptera visitation rate (Urban 3km)	DVR ~ F3km*system	139.22
	DVR ~ F3km+system	140.64
	DVR ~ F3km+P.richness+system	140.70
	DVR ~ F3km*P.richness+system	142.34
	DVR ~ F3km+P.richness+flower+system	142.54
	DVR ~ F3km*P.richness+flower+system	143.83
	DVR ~ F3km*P.richness*system	144.85
	DVR ~ U3km*P.richness+system	135.64
	DVR ~ U3km*P.richness+flower+system	137.00
	DVR ~ U3km+system	140.04
Lepidoptera visitation rate (Agriculture 3km)	DVR ~ U3km+P.richness+system	140.15
	DVR ~ U3km*P.richness*system	140.60
	DVR ~ U3km*P.richness*flower+system	141.04
	DVR ~ U3km+P.richness+flower+system	141.21
	DVR ~ U3km*system	141.63
	DVR ~ U3km*P.richness*flower*system	143.23
	LVR ~ A3km*P.richness*flower*system	56.57
	LVR ~ A3km*P.richness*flower+system	147.85
	LVR ~ A3km*P.richness*system	156.24
	LVR ~ A3km+system	158.51
Lepidoptera visitation rate (Forest 3km)	LVR ~ A3km+P.richness+flower+system	159.50
	LVR ~ A3km*system	159.67
	LVR ~ A3km+P.richness+system	160.24
	LVR ~ A3km*P.richness+flower+system	160.55
	LVR ~ A3km*P.richness+system	162.06
	LVR ~ F3km*P.richness*flower*system	91.54
	LVR ~ F3km*P.richness*system	150.27
	LVR ~ F3km*P.richness+flower+system	157.03
	LVR ~ F3km+system	158.96

Dependent variables	Model	AICc
Lepidoptera visitation rate (Urban 3km)	LVR ~ F3km+P.richness+flower+system	159.59
	LVR ~ F3km*P.richness*flower+system	159.62
	LVR ~ F3km*system	160.29
	LVR ~ F3km+P.richness+system	160.59
	LVR ~ F3km*P.richness+system	161.57
	LVR ~ U3km*P.richness*flower*system	135.57
	LVR ~ U3km+system	159.63
	LVR ~ U3km*P.richness+flower+system	159.73
	LVR ~ U3km*P.richness+system	160.50
	LVR ~ U3km+P.richness+system	160.96
	LVR ~ U3km+P.richness+flower+system	161.20
	LVR ~ U3km*system	161.32
	LVR ~ U3km*P.richness*flower+system	162.70
	LVR ~ U3km*P.richness*system	163.21

Table S4. Results of generalized Linear Models (GLMs) best fitted for each dependent variable.

Dependent variables	Explanatory fixed variable	Estimate	SE	z-value	P-value
All pollinator richness (Agriculture 3km)	Intercept	-1.556	1.493	-1.042	0.297
	A3km	0.070	0.020	3.498	0.0005***
	Plant richness	0.157	0.051	3.087	0.002**
	system	0.013	0.094	0.142	0.887
	A3km:Plant richness	-0.002	0.0007	-3.327	0.0009***
All pollinator richness (Forest 3km)	Intercept	-1.612	2.853	-0.565	0.572
	F3km	1.275	-0.374	3.406	0.0007***
	Plant richness	-0.183	-0.103	1.789	0.074
	flower	2.318e-03	1.262e-03	1.837	0.066
	system	9.903	4.718	2.099	0.036*
	F3km:Plant richness	-4.886e-02	1.496e-02	-3.265	0.001**
	F3km:flower	-5.143e-04	1.612e-04	-3.190	0.001**
	Plant richness:flower	-8.361e-05	4.529e-05	-1.846	0.065
	F3km:system	-1.540	-0.696	-2.215	0.028*
	Plant richness:system	-0.340	-0.181	-1.884	0.060
	flower:system	-4.346e-03	1.975e-03	-2.201	0.028*
	F3km:Plant richness:flower	1.928e-05	6.275e-06	3.073	0.002**
	F3km:Plant richness:system	5.661e-02	2.929e-02	1.933	0.054
All pollinator richness (Urban 3km)	F3km:flower:system	6.138e-04	2.731e-04	2.248	0.025*
	Plant richness:flower:system	1.492e-04	7.389e-05	2.019	0.043*
	F3km:Plant richness:flower:system	-2.220e-05	1.124e-05	-1.975	0.048*
	Intercept	35.30	9.478	3.725	0.0002***
	U3km	-2.519	0.704	-3.580	0.0003***
	Plant richness	-1.081	0.342	-3.166	0.002**
	flower	-1.478e-02	4.594e-03	-3.217	0.001**
	system	-102.8	40.454	-2.309	0.02*
	U3km:Plant richness	8.569e-02	2.537e-02	3.378	0.0007***

	U3km:flower	1.106e-03	3.379e-04	3.274	0.001**
	Plant richness:flower	4.851e-04	1.560e-04	3.109	0.002**
	U3km:system	10.784	9.455	1.887	0.06
	Plant richness:system	3.470	1.537	2.257	0.024*
	flower:system	2.448e-02	7.464e-03	3.280	0.001**
	U3km:Plant richness:flower	-3.678e-05	1.167e-05	-3.152	0.002**
	U3km:Plant richness:system	-0.650	0.351	-1.849	0.064
	U3km:flower:system	-4.196e-03	1.887e-03	-2.224	0.026*
	Plant richness:flower:system	-7.431e-04	2.285e-04	-3.252	0.001**
	U3km:Plant richness:flower:system	1.475e-04	6.864e-05	2.149	0.032*
Hymenoptera richness (Agriculture 3km)	Intercept	-4.744	2.211	-2.146	0.03*
	A3km	0.099	0.029	3.371	0.0007***
	Plant richness	0.241	0.073	3.307	0.0009***
	system	-0.024	0.134	-0.177	0.859
	A3km:Plant richness	-0.003	0.0009	-3.332	0.0009***
Hymenoptera richness (Forest 3km)	Intercept	-5.305	3.849	-1.378	0.168
	F3km	1.027	-0.502	2.044	0.041*
	Plant richness	-0.289	-0.137	2.105	0.035*
	flower	3.242e-03	1.686e-03	1.923	0.054
	system	20.176	6.738	3.229	0.001**
	F3km:Plant richness	-3.682e-02	1.978e-02	-1.862	0.063
	F3km:flower	-3.984e-04	2.228e-04	-1.788	0.074
	Plant richness:flower	-1.172e-04	6.038e-05	-1.941	0.052
	F3km:system	-2.393	0.971	-2.465	0.014*
	Plant richness:system	-0.762	-0.255	-2.983	0.003**
	flower:system	-8.74e-03	2.801e-03	-3.120	0.002**
	F3km:Plant richness:flower	1.403e-05	8.591e-06	1.633	0.103
	F3km:Plant richness:system	8.853e-02	4.062e-02	2.179	0.029*
	F3km:flower:system	8.671e-04	3.791e-04	2.179	0.022*

	Plant richness:flower:system	3.082e-04	1.043e-04	2.945	0.003*
	F3km:Plant richness:flower:system	-3.209e-05	1.557e-05	-2.061	0.039*
	Intercept	20.067	10.158	1.785	0.074
	U3km	-1.864	0.876	-2.129	0.033*
	Plant richness	-0.602	0.417	-1.443	0.149
	flower	-7.652e-03	5.668e-03	-1.350	0.177
	system	-200.087	60.438	-3.242	0.001**
	U3km:Plant richness	6.328e-02	3.155e-02	2.005	0.045*
	U3km:flower	7.309e-04	4.221e-04	1.732	0.083
Hymenoptera richness (Urban 3km)	Plant richness:flower	2.497e-04	1.911e-04	1.307	0.191
	U3km:system	40.309	10.371	3.143	0.002**
	Plant richness:system	7.097	2.217	3.202	0.001**
	flower:system	3.23e-02	1.022e-02	3.160	0.002**
	U3km:Plant richness:flower	-2.46e-05	1.454e-05	-1.692	0.091
	U3km:Plant richness:system	-1.589	-0.509	-3.120	0.002**
	U3km:flower:system	-8.82e-03	2.721e-03	-3.242	0.001**
	Plant richness:flower:system	-9.178e-04	3.068e-04	-2.991	0.003**
	U3km:Plant richness:flower:system	3.175e-04	9.893e-05	3.209	0.001**
	Intercept	2.105	0.497	4.237	2.27e-05 ***
Diptera richness (Agriculture 3km)	A3km	0.001	0.006	0.165	0.869
	system	0.103	0.161	0.639	0.523
	Intercept	2.301	0.139	16.582	<2e-16 ***
Diptera richness (Forest 3km)	F3km	-0.017	0.013	-1.281	0.200
	system	-0.129	0.220	-0.584	0.559
	F3km:system	0.026	0.017	1.522	0.128
	Intercept	2.076	0.211	9.809	<2e-16 ***
Diptera richness (Urban 3km)	U3km	0.011	0.017	0.612	0.541
	system	0.119	0.159	0.746	0.456

	Intercept	0.159	1.282	0.124	0.902
Lepidoptera richness (Agriculture 3km)	A3km	2.253e-02	1.356e-02	1.661	0.097
	Plant richness	-3.33e-02	3.096e-02	-1.076	0.282
	flower	1.416e-04	7.039e-05	2.012	0.044*
	system	-0.258	0.278	-0.928	0.354
Lepidoptera richness (Forest 3km)	Intercept	2.943	0.976	3.017	0.003**
	F3km	-0.038	0.017	-2.222	0.026*
	Plant richness	-0.044	0.031	-1.411	0.158
	system	-0.336	0.273	-1.231	0.218
Lepidoptera richness (Urban 3km)	Intercept	1.525	0.921	1.657	0.098
	U3km	-1.861e-02	3.483e-02	-0.534	0.593
	Plant richness	1.754e-02	2.964e-02	-0.592	0.554
	flower	1.842e-04	8.832e-05	2.086	0.037*
	system	-0.398	0.276	-1.442	0.149
All pollinator visitation rate (Agriculture 3km)	Intercept	9.863	27.480	0.359	0.725
	A3km	0.356	0.343	1.036	0.317
	system	-0.766	8.914	-0.086	0.933
All pollinator visitation rate (Forest 3km)	Intercept	-4.904e+02	1.560e+02	-3.144	0.088
	F3km	87.27	18.26	4.779	0.041*
	Plant richness	19.82	5.636	3.516	0.072
	flower	0.250	6.819e-02	3.681	0.067
	system	1.030e+03	245.2	4.199	0.052
	F3km:Plant richness	-3.436	0.707	-4.855	0.039*
	F3km:flower	-4.080e-02	7.970e-03	-5.119	0.036*
	Plant richness:flower	-9.149e-03	2.449e-03	-3.735	0.065
	F3km:system	-100.701	35.26	-4.823	0.04*
	Plant richness:system	-30.973	9.383	-4.234	0.052
	flower:system	-0.482	0.103	-4.683	0.043*
	F3km:Plant richness:flower	1.576e-03	3.044e-04	5.180	0.035*

	F3km:Plant richness:system	6.844	1.480	4.626	0.044*
	F3km:flower:system	7.586e-02	1.391e-02	5.452	0.032*
	Plant richness:flower:system	1.782e-02	3.855e-03	4.623	0.044*
	F3km:Plant richness:flower:system	-2.957e-03	5.709e-04	-5.180	0.035*
All pollinator visitation rate (Urban 3km)	Intercept	28.410	13.974	2.033	0.062
	U3km	0.905	1.241	0.730	0.478
	system	22.321	19.131	1.167	0.263
Hymenoptera visitation rate (Agriculture 3km)	Intercept	2.197	25.823	0.085	0.933
	A3km	0.336	0.323	1.041	0.314
	system	0.553	8.377	0.066	0.948
Hymenoptera visitation rate (Forest 3km)	Intercept	-303.6	129.0	-2.354	0.143
	F3km	74.05	15.10	4.904	0.039*
	Plant richness	11.71	4.660	2.514	0.129
	flower	0.138	5.639e-02	2.450	0.134
	system	673.4	202.8	3.320	0.08
	F3km:Plant richness	-2.862	0.585	-4.891	0.039*
	F3km:flower	-3.289e-02	6.591e-03	-4.990	0.038*
	Plant richness:flower	-4.903e-03	2.025e-03	-2.241	0.137
	F3km:system	-137.4	29.16	-4.713	0.042*
	Plant richness:system	-25.66	7.760	-3.307	0.081
	flower:system	-0.283	8.513e-02	-3.323	0.08
	F3km:Plant richness:flower	1.265e-03	2.517e-04	5.027	0.037*
Hymenoptera visitation rate (Urban 3km)	F3km:Plant richness:system	5.450	1.223	4.455	0.047*
	F3km:flower:system	6.084e-02	1.151e-02	5.288	0.034*
	Plant richness:flower:system	1.045e-02	3.187e-03	3.277	0.082
	F3km:Plant richness:flower:system	-2.343e-03	4.721e-04	-4.962	0.038*
	Intercept	1.059e+03	8.692e+02	1.218	0.347
	U3km	-80.23	63.83	-1.173	0.362

	Plant richness	-42.13	31.31	-1.346	0.311
	flower	-0.387	0.416	-0.930	0.451
	system	-5.059e+03	5.009e+03	-1.010	0.419
	U3km:Plant richness	3.186	2.460	1.295	0.325
	U3km:flower	2.953e-02	3.202e-02	0.922	0.454
	Plant richness:flower	1.583e-02	1.409e-02	1.123	0.378
	U3km:system	9.353e+02	1.073e+03	0.872	0.475
	Plant richness:system	1.803e+02	1.731e+02	1.042	0.407
	flower:system	1.012	0.784	1.290	0.326
	U3km:Plant richness:flower	-1.176e-03	1.106e-03	-1.063	0.399
	U3km:Plant richness:system	-34.93	39.91	-0.875	0.474
	U3km:flower:system	-0.204	0.213	-0.958	0.439
	Plant richness:flower:system	-3.364e-02	2.361e-02	-1.425	0.290
	U3km:Plant richness:flower:system	7.488e-03	7.763e-03	0.965	0.437
Diptera visitation rate (Agriculture 3km)	Intercept	-536.320	178.742	-3.001	0.013*
	A3km	6.245	2.206	2.831	0.018*
	system	20.157	6.471	3.115	0.011*
	A3km:Plant richness	495.717	190.283	2.605	0.026*
	A3km:system	-0.230	0.079	-2.908	0.016*
	Plant richness:system	-17.838	6.869	-2.597	0.027*
	A3km: Plant richness: system	0.202	0.085	2.366	0.04*
Diptera visitation rate (Forest 3km)	Intercept	-408.0	43.57	-9.365	0.011*
	F3km	44.79	5.101	8.781	0.013*
	Plant richness	15.74	1.574	9.997	0.0099**
	flower	0.189	1.905e-02	9.940	0.0099**
	system	347.7	68.51	5.076	0.037*
	F3km:Plant richness	-1.755	0.198	-8.876	0.012*
	F3km:flower	-2.164e-02	2.227e-03	-9.719	0.01*
	Plant richness:flower	-6.910e-03	6.843e-04	-10.099	0.0097**

	F3km:system	-31.71	9.850	-3.219	0.084
	Plant richness:system	-13.08	2.621	-4.991	0.038*
	flower:system	-0.179	2.876e-02	-6.225	0.025*
	F3km:Plant richness:flower	8.292e-04	8.503e-05	9.753	0.01*
	F3km:Plant richness:system	1.199	0.413	2.901	0.101
	F3km:flower:system	1.778e-02	3.887e-03	4.574	0.045*
	Plant richness:flower:system	6.430e-03	1.077e-03	5.971	0.027*
	F3km:Plant richness:flower:system	-6.511e-04	1.595e-04	-4.082	0.055
Diptera visitation rate (Urban 3km)	Intercept	42.983	25.759	1.669	0.119
	U3km	-7.588	3.375	-2.248	0.043*
	system	-1.204	0.867	-1.388	0.189
	U3km: Plant richness	0.267	0.112	2.378	0.033*
Lepidoptera visitation rate (Agriculture 3km)	Intercept	-7.183e+02	2.685e+03	-0.268	0.814
	A3km	6.804	35.26	0.193	0.865
	Plant richness	-7.782	1.028e+02	-0.076	0.947
	flower	0.211	1.053	0.200	0.860
	system	1.016e+03	2.709e+03	0.375	0.744
	A3km: Plant richness	0.184	1.348	0.137	0.904
	A3km: flower	-1.505e-03	1.389e-02	-0.108	0.924
	Plant richness: flower	4.969e-03	4.020e-02	0.124	0.913
	A3km: system	-11.91	35.51	-0.355	0.769
	Plant richness: system	-4.397	1.040e+02	-0.042	0.970
	flower: system	-0.313	1.063	-0.294	0.796
	A3km: Plant richness: flower	-1.038e-04	5.286e-04	-0.196	0.862
	A3km: Plant richness: system	1.654e-02	1.361	0.012	0.991
	A3km: flower: system	3.219e-03	1.401e-02	0.230	0.840
	Plant richness: flower: system	-5.275e-04	4.067e-02	-0.013	0.991
	A3km: Plant richness: flower:system	3.295e-05	5.344e-04	0.062	0.956
	Intercept	289.3	58.28	4.963	0.038*

	F3km	-0.210	6.824	-3.075	0.092
	Plant richness	-8.075	2.106	-3.834	0.062
	flower	-2.828e-02	2.548e-02	-1.110	0.383
	system	-496.7	91.65	-5.420	0.032
	F3km:Plant richness	0.593	0.265	2.242	0.154
	F3km:flower	4.638e-03	2.979e-03	1.557	0.260
	Plant richness:flower	7.197e-04	9.153e-04	0.786	0.514
Lepidoptera visitation rate (Forest 3km)	F3km:system	39.98	13.18	3.034	0.094
	Plant richness:system	16.04	3.507	4.573	0.045*
	flower:system	9.653e-02	3.847e-02	2.509	0.129
	F3km:Plant richness:flower	-1.308e-04	1.137e-04	-1.150	0.369
	F3km:Plant richness:system	-1.366	0.553	-2.471	0.132
	F3km:flower:system	-1.160e-02	5.200e-03	-2.231	0.155
	Plant richness:flower:system	-3.299e-03	1.440e-03	-2.290	0.149
	F3km:Plant richness:flower:system	4.132e-04	2.134e-04	1.937	0.192
	Intercept	574.3	506.5	1.134	0.374
	U3km	-13.98	39.85	-0.351	0.759
Lepidoptera visitation rate (Urban 3km)	Plant richness	-9.242	1.825	-0.507	0.663
	flower	-0.433	0.243	-1.784	0.216
	system	757.1	2.919e+03	0.259	0.820
	U3km:Plant richness	-0.107	1.434	-0.074	0.947
	U3km:flower	2.147e-02	1.866e-02	1.151	0.369
	Plant richness:flower	9.762e-03	8.214e-03	1.188	0.357
	U3km:system	-2.896e+02	6.253e+02	-0.463	0.689
	Plant richness:system	-35.97	100.9	-0.357	0.756
	flower:system	0.268	0.457	0.587	0.617
	U3km:Plant richness:flower	-4.268e-04	6.446e-04	-0.662	0.576
	U3km:Plant richness:system	11.37	23.26	0.489	0.673
	U3km:flower:system	3.758e-02	0.124	0.303	0.791

Plant richness:flower:system	-5.454e-03	1.376e-02	-0.396	0.730
U3km:Plant richness:flower:system	-1.720e-03	4.524e-03	-0.380	0.740

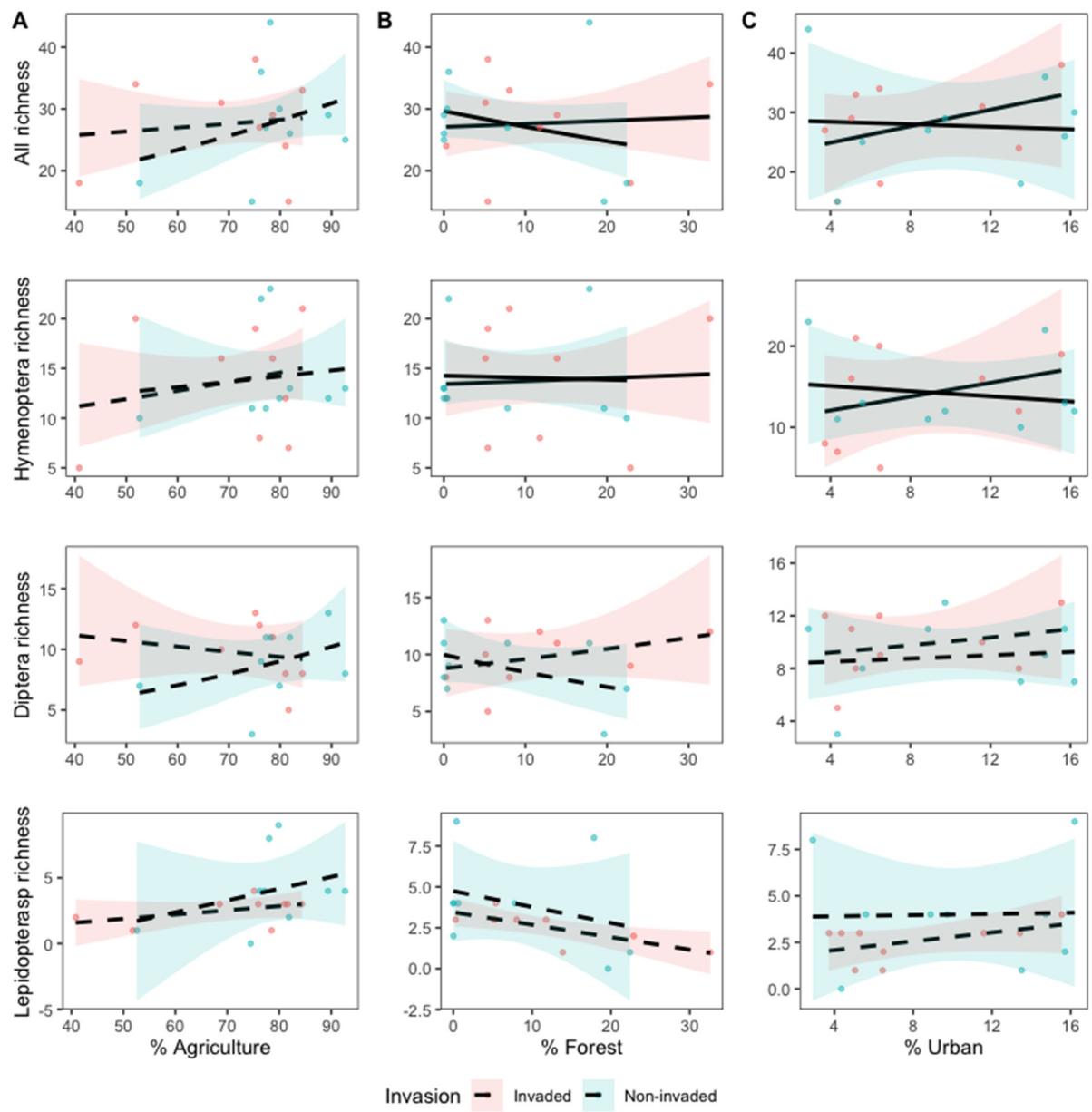


Figure S8. The relationship between invasion state and pollinator richness with relation to the percentage of (A) agriculture, (B) forest, and (C) urban landscape within 3 km radius from each study site. All regressions are plotted with 95% corresponding confident intervals. Solid lines indicate significant associations ($p < 0.05$), whereas dashed lines indicate non-significant relationship ($p > 0.05$).

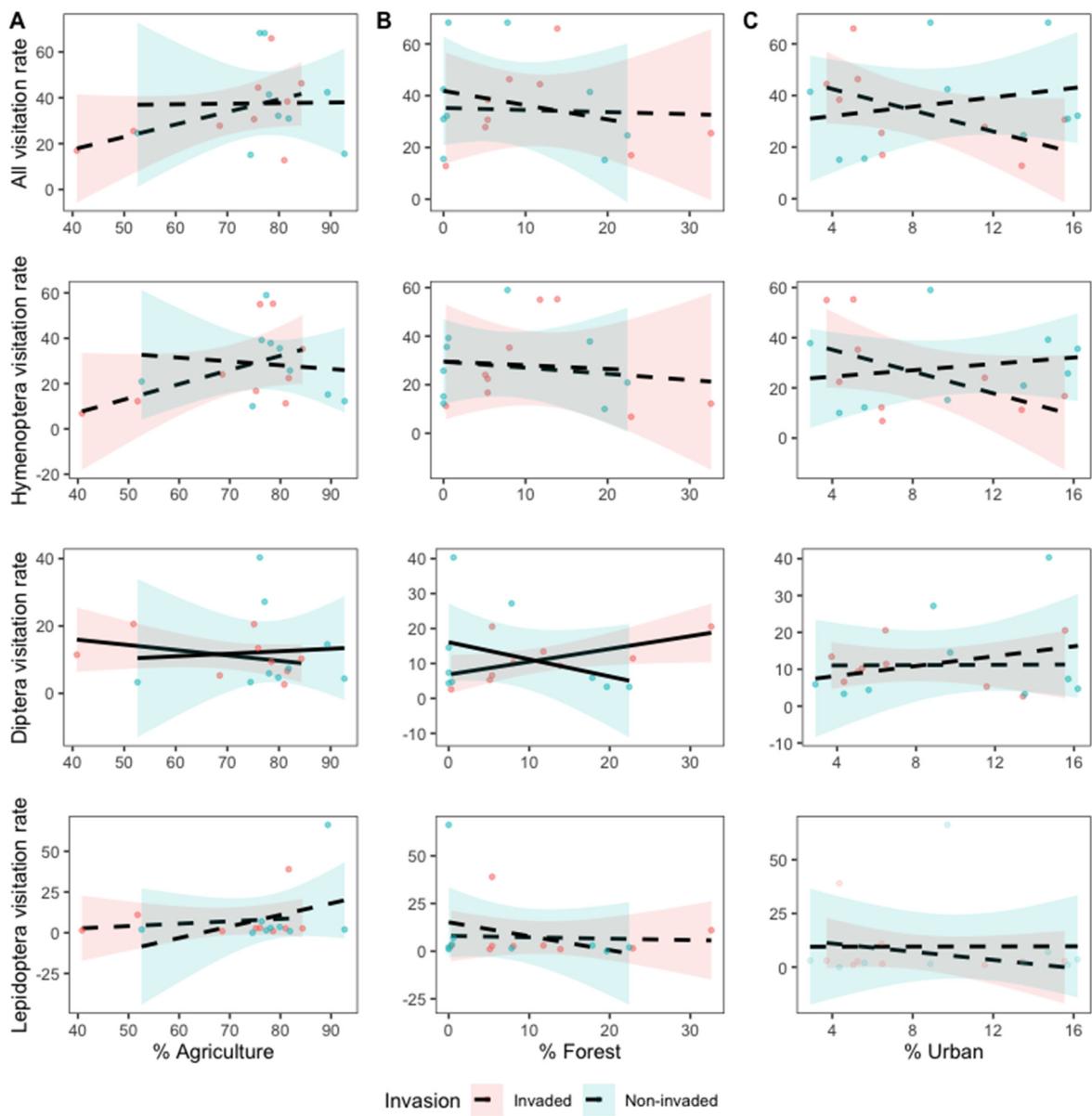


Figure S9. The relationship between invasion state and visitation rates with relation to the percentage of (A) agriculture, (B) forest, and (C) urban landscape within 3 km radius from each study site. All regressions are plotted with 95% corresponding confident intervals. Solid lines indicate significant associations ($p < 0.05$), whereas dashed lines indicate non-significant relationship ($p > 0.05$).