**Table S1 –** Mite fauna distribution found on non-crop plants grown under the wooden structure of strawberry in semi-hydroponic system. Marialva, Paraná, Brazil – November 2015 to December 2016.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Botanical family** | **Plant** | **EUP** | **TYD** | **TSSM** | **BRE** | **NAN** | **NCA** | **NTU** | **AMCH** | **AMM** | **AMP** | **AMTA** | **PHY** | **EUCI** | **EUCO** | **GALE** | **PRDO** | **CUNA** | **PHS** | **CHEY** |
| Asteraceae | ARTVU | 0 | 0 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| BIDPI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CICIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| CONCA | 0 | 15 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| EMISO | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| GALPA | 1 | 0 | 41 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GNASP | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYPRA | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LACSA | 0 | 0 | 48 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 |
| PARHY | 0 | 1 | 73 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 5 | 17 | 6 | 0 | 0 | 0 | 0 | 0 |
| SONOL | 0 | 1 | 38 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TAROF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TRIPR | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranthaceae | ALTTE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMADE | 0 | 9 | 8 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMARE | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaryllidaceae | ALISC | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apiaceae | PETCR | 0 | 0 | 134 | 31 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| Boraginaceae | HELIN | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Brassicaceae | RAPRA | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Commelinaceae | COMBE | 0 | 51 | 78 | 29 | 5 | 31 | 25 | 5 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 1 |
| Cyperaceae | CYPDI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CYPRO | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dennstaedtiaceae | PTERI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Euphorbiaceae | EUPHE | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table S1 -** Mite fauna distribution found on non-crop plants presented under the wooden structure of strawberry in semi-hydroponic system. Marialva, Paraná, Brazil – November 2015 to December 2016 (cont.).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Botanical family** | **Plant** | **EUP** | **TYD** | **TSSM** | **BRE** | **NAN** | **NCA** | **NTU** | **AMCH** | **AMM** | **AMP** | **AMTA** | **PHY** | **EUCI** | **EUCO** | **GALE** | **PRDO** | **CUNA** | **PHS** | **CHEY** |
| Lamiaceae | LEOSI | 0 | 11 | 1 | 1 | 5 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| ROSOF | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MENTH | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malvaceae | SIDRHO | 0 | 5 | 27 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Myrtaceae | PSIGU | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| Oxalidaceae | OXAAC | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OXALA | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Phyllanthaceae | PHYLL | 0 | 0 | 21 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Poaceae | BROCA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIGHO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIGIN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIGSAN | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELCCR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELEUS | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PASNO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UROMU | 0 | 74 | 2 | 0 | 5 | 1 | 83 | 6 | 0 | 9 | 0 | 9 | 2 | 18 | 0 | 3 | 2 | 0 | 1 |
| UROPL | 0 | 0 | 19 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Portulacaceae | POROL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rubiaceae | SPEAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RICBR | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rutaceae | RUTGR | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solanaceae | CAPSI | 0 | 13 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1 | 0 | 0 | 0 | 0 | 0 |
| LYPES | 0 | 5 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table S1 –** Mite fauna distribution found on non-crop plants presented under the wooden structure of strawberry in semi-hydroponic system. Marialva, Paraná, Brazil – November 2015 to December 2016 (cont.).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Botanical family** | **Plant** | **EUP** | **TYD** | **TSM** | **BRE** | **NAN** | **NCA** | **NTU** | **AMCH** | **AMM** | **AMP** | **AMTA** | **PHY** | **EUCI** | **EUCO** | **GALE** | **PRDO** | **CUNA** | **PHS** | **CHEY** |
| Solanaceae | SOLAM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 2 | 0 | 0 | 0 | 0 | 0 |
| Vitaceae | VITIS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Zingiberaceae | ZINOF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

ARTVU: *Artemisia vulgaris* L., BIDPI: *Bidens pilosa* L., CICIN: *Cichorium intybus* L., CONCA: *Conyza canadensis* L. Cronquist, EMISO: *Emilia sonchifolia* L. DC*.*, GALPA: *Galinsoga parviflora* Cav., GNASP: *Gnaphalium spicatum* Lam., HYPRA: *Hypochaeris radicata* L., LACSA: *Lactuca sativa* L., PARHY: *Parthenium hysterophorus* L., SONOL: *Sonchus oleraceus* L., TAROF: *Taraxacum officinale*, TRIPR: *Tridax procumbens* L., ALTTE: *Alternanthera tenella* Colla AMADE: *Amaranthus deflexus* L., AMARE: *Amaranthus retroflexus* L., ALISC: *Allium schoenoprasum* L., PETCR: *Petroselinum crispum* Mill. Nym, HELIN: *Heliotropuim indicum* L., RAPRA: *Raphanus raphanistrum* L., COMBE: *Commelina benghalensis* L., CYPDI: *Cyperus difformis* L., CYPRO: *Cyperus rotundus* L., PTERI: *Pteridium* sp. EUPHE: *Euphorbia heterophylla* L., LEOSI: *Leonurus sibiricus* L., ROSOF: *Rosmarinus officinalis* L., MENTH: *Mentha* sp. L., SIDRH: *Sida rhombifolia* L., PSIGU: *Psidium guajava* L., OXAAC: *Oxalis acetosella* L., OXALA: *Oxalis latifolia* Kunth, PHYLL: *Phyllanthus* sp., BROCA: *Bromus catharticus* Vahl, DIGHO: *Digitaria horizontalis* Willd. DIGIN: *Digitaria insularis* L. Fedde., DIGSA: *Digitaria sanguinalis* L. Scop., ELCCR: *Echinochloa crus-galli* L., ELEUS: *Eleusine* sp., PASNO: *Paspalum notatum* Flüggé, UROMU: *Urochloa* *mutica* Forssk. T.Q. Nguyen, UROPL: *Urochloa plantaginea* (Link) R. Webster, POROL: *Portulaca oleracea* L., SPEAL: *Spermacoce alata* Aubl., RICBR *Richardia brasiliensis* (Gomes), RUTGR: *Ruta graveolens* L., CAPSI: *Capsicum* sp., LYPES: *Lycopersicon esculentum* Mill., SOLAM: *Solanum americanum* Mill., VITIS: *Vitis* sp., ZINOF: *Zingiber officinale* Roscoe, EUP: Eupodidae, TYD: Tydeidae, TSSM: *Tetranychus urticae* Koch, BRE: *Brevipalpus* sp., NAN: *Neoseiulus anonymus* Chant & Baker, NCA: *Neoseiulus californicus* McGregor, NTU: *Neoseiulus tunus* De Leon, AMCH: *Amblyseius* cf. *chiapensis* De Leon, AMM: *Amblyseius* sp. male, AMP: *Amblyseius sp* n*.,* AMTA: *Amblyseius* cf. *tamatavensis* Blommers, PHY: Phytoseiidae n., EUCI: *Euseius citrifolius* Denmark & Muma, EUCO: *Euseius concordis* Chant, GALE: *Galendromus* sp., PRDO: *Proprioseiopsis domingos* El-Banhawy, CUNA: Cunaxidae. PHS: *Phytoseiulus* sp. Evans, CHEY: Cheyletidae.

**Table S2 –** Matrix of similarity of plant species that shared PM species showing p-valor of plant-plant interactions. Marialva, Paraná, Brazil – November 2015 to December 2016.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Plant** | **AMADE** | **CAPSI**  | **COMBE** | **CONCA** | **GALPA** | **LEOSI** | **LYPES** | **PARHY** | **PETCR** | **RAPRA** | **SOLAM** | **SONOL** | **UROMU** |
| AMADE |  |  |  |  |  |  |  |  |  |  |  |  |   |
| CAPSI. | 1 |  |  |  |  |  |  |  |  |  |  |  |   |
| COMBE | 0.314 | 0.187 |  |  |  |  |  |  |  |  |  |  |   |
| CONCA | 1 | 0.673 | 0.580 |  |  |  |  |  |  |  |  |  |   |
| GALPA | 1 | 1 | **0.035** | 0.464 |  |  |  |  |  |  |  |  |   |
| LEOSI | 0.403 | 0.393 | 0.082 | 0.200 | 0.715 |  |  |  |  |  |  |  |   |
| LYPES | 1 | 1 | **0.018** | 0.405 | 1 | 0.399 |  |  |  |  |  |  |   |
| PARHY | 0.713 | 1 | **0.032** | 0.889 | 0.256 | 0.269 | 0.737 |  |  |  |  |  |   |
| PETCR | 1 | 1 | 0.497 | 1 | 0.463 | 0.202 | 0.694 | 0.957 |  |  |  |  |   |
| RAPRA | 1 | 1 | 0.069 | 0.669 | 1 | 0.402 | 1 | 0.623 | 0.333 |  |  |  |   |
| SOLAM | 0.101 | 0.201 | **0.015** | 0.103 | 0.137 | 0.099 | 0.403 | 0.857 | 0.099 | 0.201 |  |  |   |
| SONOL | 0.710 | 0.427 | 0.223 | 0.719 | 0.165 | 0.091 | 0.195 | 0.708 | 0.671 | 0.292 | **0.037** |  |   |
| UROMU | 0.670 | 0.905 | 0.193 | 0.763 | 0.643 | 0.433 | 0.541 | 0.959 | 0.713 | 0.4403 | 0.214 | 0.488 |   |

Bold numbers denote significant by fitting a one-way Analysis of Similarity (ANOSIM) using Jaccard Index with 9999 permutations.

AMADE: *Amaranthus deflexus* L., CAPSI: *Capsicum* sp., COMBE: *Commelina benghalensis* L., CONCA: *Conyza canadensis* L. Cronquist, GALPA: *Galinsoga parviflora* Cav., LEOSI: *Leonurus sibiricus* L., LYPES: *Lycopersicon esculentum* Mill., PARHY: *Parthenium hysterophorus* L., PETCR: *Petroselinum crispum* Mill. Nym, RAPRA: *Raphanus raphanistrum* L., SOLAM: *Solanum americanum* Mill., SONOL: *Sonchus oleraceus* L., UROMU: *Urochloa* *mutica* Forssk. T.Q. Nguyen.