

## Supplementary material

### Response of soil seed bank to a prescribed burning in a subtropical pine-oak forest

*Susana Zuloaga-Aguilar<sup>A</sup>, Alma Orozco-Segovia<sup>B</sup>, Oscar Briones<sup>C</sup> and Enrique Jardel Pelaez<sup>A</sup>*

<sup>A</sup>Departamento de Ecología y Manejo de Recursos Naturales. Universidad de Guadalajara-CUCSUR. Avenida Independencia Nacional 151, Código Postal 41900, Autlán de Navarro, Jalisco, México.

<sup>B</sup>Instituto de Ecología, Departamento de Ecología Funcional, Universidad Nacional Autónoma de México, Apartado Postal 70-275, Avenida Universidad 3000, Ciudad Universitaria, Código Postal 04510 México, Distrito Federal, México.

<sup>C</sup>Instituto de Ecología, Asociación Civil, Red de Biología Evolutiva, Km 2.5 Antigua carretera a Coatepec No. 351, Congregación El Haya, Xalapa Ver, Código Postal, 91070, México.

<sup>D</sup>Corresponding author. Email: oscar.briones@inecol.mx

### Appendix S1. Germinable soil seed density on litter and soil before and immediately after burning

Total density of germinable seeds ( $m^{-2}$ ) of 47 species in the seed bank of the litter and three soil depths. Samples were collected in six sites of diameter 24 m in a pine oak forest in the Sierra de Manantlán Biosphere Reserve in Jalisco, Mexico, six days before (BB) and five hours after ( $AB_{5h}$ ) a prescribed burning event conducted on 23/02/2006. The species were classified according to the percentage change of the increase or decrease in the density of germinable seeds after burning as tolerant (<15%), stimulated (> 25%) and intolerant (> 50%). Family and growth form (GF) of the species are shown. A = Annual herbaceous, C = Climbing, P = Perennial herbaceous, S = Shrub. Dormancy type (D) of genera to which species belongs: PD = Physiological dormancy, PY = Physical dormancy, MPD = Morphophysiological dormancy, ND = No dormancy (Baskin and Baskin, 2001; pers. obs.)

Species	Family	D	GF	Soil depth								Total density	
				Litter		0–3 cm		3–6 cm		6–10 cm		BB	AB <sub>5h</sub>
				BB	AB <sub>5h</sub>	BB	AB <sub>5h</sub>	BB	AB <sub>5h</sub>	BB	AB <sub>5h</sub>		
<b>Tolerant</b>													
<i>Acalypha</i> sp.	Euphorbiaceae	PD/ND	P	0	111	1273	1273	0	0	0	0	1273	1384
<i>Ageratina choricéphala</i> B. L. Rob.	Asteraceae	PD/ND	S	2233	533	7894	8148	1782	1782	509	255	12419	10718
<i>Micropleura renifolia</i> Lag.	Apiaceae	–	P	0	22	764	764	0	0	0	0	764	786
<i>Oxalis hernandesii</i> DC.	Oxalidaceae	PD/ND	P	44	44	0	0	0	0	0	0	44	44
<b>Stimulated</b>													
<i>Conyza</i> sp.	Asteraceae	PD	P	44	0	255	2292	509	1019	0	0	808	3310
<i>Crotalaria bupleurifolia</i> Schlttdl. & Cham.	Fabaceae	PY	P	0	22	0	0	0	0	0	0	0	22
<i>Crotalaria longirostrata</i> Hook. & Arn.	Fabaceae	PY	S	0	22	0	255	0	0	0	0	0	277
<i>Desmodium aparines</i> (Link) DC.	Fabaceae	PY	P	44	122	0	4584	0	255	0	0	44	4960
<i>Desmodium occidentale</i> (Morton) Standl.	Fabaceae	PY	S	11	78	0	1782	0	0	0	0	11	1861
<i>Desmodium urarioides</i> (Blake) B.G. Schubert & McVaugh	Fabaceae	PY	A	44	156	0	1273	0	255	0	0	299	1429
<i>Geranium seemannii</i> Peyr.	Geraniaceae	PY	P	0	333	0	3820	0	1528	0	0	0	5681
<i>Lotus repens</i> (G. Don) Standl. & Steyerm.	Fabaceae	PY	P	0	11	0	0	0	0	0	0	0	11
<i>Oplismenus compositus</i> (L.) Beauv.	Poaceae	PD	P	0	300	0	2292	0	2292	0	509	0	5393
<i>Oxalis corniculata</i> L.	Oxalidaceae	PD/ND	P	1867	144	3820	10440	764	4074	255	5857	6705	20515
<i>Panicum albomaculatum</i> Scribn.	Poaceae	PD	P	522	233	1019	6875	0	3565	0	3820	1541	14493

<i>Physalis</i> sp.	Solanaceae	PY	P	22	22	1019	2546	0	509	0	0	1041	3078
<i>Phytolacca icosandra</i> L.	Phytolaccaceae	ND	P	0	22	509	1273	0	0	0	0	509	1295
<i>Poa annua</i> L.	Poaceae	PD	A	56	100	1273	509	255	1273	0	255	1583	2137
<i>Rhus schmidelioides</i> Schltld.	Anacardiaceae	PY	S	0	78	0	0	0	0	0	0	0	78
<i>Rubus</i> sp.	Rosaceae	PY	S	22	67	0	255	0	0	0	0	22	322
<i>Ruellia jaliscana</i> Standl.	Acanthaceae	ND	S	22	133	0	509	0	0	0	0	22	643
<i>Salvia thyriflora</i> Benth.	Lamiaceae	PD	S	0	33	0	255	0	0	0	0	0	288
<i>Sida braclayi</i> E.G. Baker	Malvaceae	PY	P	33	89	0	0	0	0	0	0	33	89
<i>Solanum ferrugineum</i> Jacq.	Solanaceae	PD/ ND	A	0	11	0	0	0	0	0	0	0	11
<i>Tigridia mexicana</i> Molseed subsp. <i>lilacina</i> Molseed	Iridaceae	–	P	0	67	0	0	0	0	0	0	0	67
<b>Intolerant</b>													
<i>Crusea psillioides</i> (H.B.K.) W.R. Anderson	Rubiaceae	–	P	0	11	764	0	0	0	0	0	764	11
<i>Drymaria cordata</i> (L.) Willd. ex Roem. & Schult.	Caryophyllaceae	ND	A	33	0	0	0	0	0	0	0	33	0
<i>Drymaria</i> sp.	Caryophyllaceae	ND	A	56	0	0	0	0	0	0	0	56	0
<i>Erigeron polycephalus</i> (Larsen) Nesom	Asteraceae	PD	S	22	11	0	0	0	0	0	0	22	11
<i>Eriosema diffusum</i> (H. B. K.) G. Don	Fabaceae	–	P	0	0	764	0	0	0	0	0	764	0
<i>Ageratina mairetiana</i> (DC.) R.M. King & H. Rob.	Asteraceae	PD/ ND	S	0	0	509	0	0	0	0	0	509	0
<i>Ageratina ceriferum</i> McVaugh	Asteraceae	PD/ ND	S	200	0	255	0	764	0	0	0	1219	0
<i>Evolvulus nummularius</i> (L.) L.	Convolvulaceae	PY	A	0	0	764	0	0	0	255	0	1019	0
<i>Fuchsia arborescens</i>	Onagraceae	ND	S	178	0	0	0	255	0	0	0	432	0
<i>Gnaphalium americanum</i> Mill.	Asteraceae	PD/ ND	A	67	0	764	0	255	0	0	0	1085	0
<i>Hypoxis mexicana</i> Schult. & Schult.	Liliaceae	MP D	P	0	33	509	0	0	0	0	0	509	33
<i>Lobelia laxiflora</i> H. B. K.	Campanulaceae	MP D	P	0	0	255	0	0	0	0	0	255	0
<i>Melampodium divaricatum</i> (Rich.) DC.	Asteraceae	–	A	33	0	509	0	0	0	0	0	543	0
<i>Phyllanthus</i> sp.	Euphorbiaceae	–	S	0	44	0	0	764	0	0	0	764	44

<i>Peperomia</i> sp.	Piperaceae	MP D	P	22	0	0	0	0	0	0	0	22	0
<i>Solanum aphyodendron</i> S. Knapp	Solanaceae	PD/ ND	S	44	0	0	0	0	0	0	0	44	0
<i>Solanum nigricans</i> Mart. & Galeotti	Solanaceae	PD/ ND	S	33	0	0	0	0	0	0	0	33	0
<i>Solanum</i> sp.	Solanaceae	PD/ ND	S	44	0	0	0	0	0	0	0	44	0
<i>Sonchus oleraceus</i> L.	Asteraceae		A	0	0	509	0	0	0	0	0	509	0
<i>Stellaria cuspidata</i> Willd. ex Schltdl.	Caryophyllaceae	PD/ ND	A	11	0	22	0	0	0	0	0	33	0
<i>Stellaria</i> sp.	Caryophyllaceae	PD/ ND	A	289	0	0	0	0	0	0	0	289	0
<i>Vitis tiliifolia</i> Planch.	Vitaceae	MP D	C	22	0	0	0	0	0	0	0	22	0
Species 1 (Fern)		–	P	22	0	0	0	0	0	0	0	22	0
Species 2	–	–	–	22	0	0	0	0	0	0	0	22	0
<b>Total</b>				<b>6062</b>	<b>2852</b>	<b>23450</b>	<b>49145</b>	<b>5348</b>	<b>16552</b>	<b>1019</b>	<b>10696</b>	<b>36132</b>	<b>78991</b>

## Appendix S2. Soil seed bank species during 2006 and 2007

List of species of the soil seed bank of a pine oak forest in the Sierra de Manantlán Biosphere

Reserve in Jalisco, Mexico, recorded during 2006 and 2007. The family and growth form (GF) are shown. A = Annual herbaceous, C = Climbing, P = Perennial herbaceous, S = Shrub, T = Tree

Species	Family	GF
<i>Acalypha</i> sp.	Euphorbiaceae	P
<i>Aeschynomene villosa</i> Poir. var. <i>villosa</i>	Fabaceae	P
<i>Ageratina ceriferum</i> McVaugh	Asteraceae	S
<i>Ageratina mairretiana</i> (DC.) R.M. King & H. Rob.	Asteraceae	S
<i>Ageratina areolare</i> DC.	Asteraceae	S
<i>Ageratina choricephala</i> B. L. Rob.	Asteraceae	S
<i>Ageratina</i> sp. 1	Asteraceae	S
<i>Ageratina</i> sp. 2	Asteraceae	S
<i>Ageratum</i> sp.	Asteraceae	S
<i>Antigonon flavescens</i> S. Watson	Polygonaceae	A
<i>Archibaccharis asperifolia</i> (Benth.) Blake	Asteraceae	S
<i>Archibaccharis schiedeana</i> (Benth.) J. Jacks	Asteraceae	S
<i>Archibaccharis</i> sp.	Asteraceae	S
<i>Buddeja parviflora</i> Humb. & Kunth	Buddlejaceae	S
<i>Carpinus tropicalis</i> Furlow	Betulaceae	T
<i>Cestrum</i> sp.	Solanaceae	S
<i>Conyza</i> sp.	Asteraceae	P
<i>Cornus excelsa</i> H. B. K.	Cornaceae	T
<i>Crotalaria bupleurifolia</i> Schltld. & Cham.	Fabaceae	S
<i>Crotalaria longirostrata</i> Hook. & Arn.	Fabaceae	S
<i>Crusea coccinea</i> DC.	Rubiaceae	P
<i>Crusea psyllioides</i> (H.B.K.) W.R. Anderson.	Rubiaceae	P
<i>Cyperus flavescens</i> var. <i>piceus</i> (Liebm.) Fernald	Cyperaceae	P
<i>Cyperus hermaphroditus</i> (Jacq.) Standl.	Cyperaceae	P
<i>Cyperus michoacanensis</i> Britton ex C.B. Clarke	Cyperaceae	P
<i>Cyperus</i> sp.	Cyperaceae	P
<i>Desmodium aparines</i> (Link) DC.	Fabaceae	P
<i>Desmodium occidentale</i> (Morton) Standl.	Fabaceae	S
<i>Desmodium urarioides</i> (Blake) B.G. Schubert & McVaugh	Fabaceae	A
<i>Drymaria cordata</i> (L.) Willd. ex Roem & Schult.	Caryophyllaceae	A
<i>Drymaria villosa</i> Schltld. & Cham.	Caryophyllaceae	A
<i>Eleocharis</i> sp.	Cyperaceae	P
<i>Erigeron polycephalus</i> (Larsen) G.L. Nessim	Asteraceae	S
<i>Eriosema diffusum</i> (H. B. K.) G. Don	Fabaceae	P
<i>Euphorbia schlechtendalii</i> Boiss. var. <i>pacifica</i> McVaugh	Euphorbiaceae	S

<i>Evolvulus nummularis</i> (L.) L.	Convolvulaceae	A
<i>Fraxinus uhdei</i> (Wenz.) Lingelsh.	Oleaceae	T
<i>Fuchsia arborescens</i> Sim	Onagraceae	S
<i>Fuchsia encliandra</i> Steud. subsp. <i>encliandra</i>	Onagraceae	S
<i>Galium microphyllum</i> A. Gray	Rubiaceae	P
<i>Geranium seemannii</i> Peyr.	Geraniaceae	P
<i>Gnaphalium americanum</i> Mill.	Asteraceae	A
<i>Gnaphalium attenuatum</i> DC. var. <i>silvicola</i> McVaugh	Asteraceae	A
<i>Gnaphalium bourgovii</i> A. Gray	Asteraceae	A
<i>Gnaphalium</i> sp.	Asteraceae	A
<i>Gonolobus</i> sp.	Asteraceae	P
<i>Halenia</i> sp.	Gentianaceae	A
<i>Heliocereus</i> sp.	Cactaceae	P
<i>Hypoxis mexicana</i> Schult. & Schult.	Liliaceae	P
<i>Hypericum pauciflorum</i> H. B. K.	Guttiferae	P
<i>Iresine diffusa</i> Humb. & Bonpl. ex Willd.	Amaranthaceae	P
<i>Jaltomata procumbens</i> (Cav.) J. L. Gentry	Solanaceae	P
<i>Leandra subseriata</i> (Naudin) Cogn.	Melastomataceae	S
<i>Lobelia laxiflora</i> H. B. K.	Campanulaceae	P
<i>Lotus repens</i> (G. Don) Standl. & Steyerf.	Campanulaceae	P
<i>Magnolia iltisiana</i> A. Vázquez	Magnoliaceae	T
<i>Melampodium tepicense</i> B. L. Rob.	Asteraceae	A
<i>Micropleura renifolia</i> Lag.	Apiaceae	P
<i>Monnina xalapensis</i> H. B. K.	Polygalaceae	S
<i>Oplismenus compositus</i> (L.) Beauv.	Poaceae	P
<i>Oxalis corniculata</i> L.	Oxalidaceae	P
<i>Oxalis hernandensii</i> DC.	Oxalidaceae	P
<i>Oxalis</i> sp.1	Oxilidaceae	P
<i>Oxalis</i> sp.2	Oxilidaceae	P
<i>Panicum albomaculatum</i> Scribn	Poaceae	P
<i>Parathesis villosa</i> Lundell	Myrsinaceae	S
<i>Phyllanthus</i> sp.	Euphorbiaceae	S
<i>Physalis</i> sp.	Solanaceae	P
<i>Phytolacca icosandra</i> L.	Phytolaccaceae	P
<i>Pinus douglasiana</i> Martinez	Pinaceae	T
<i>Peperomia</i> sp.	Piperaceae	P
<i>Poa annua</i> L.	Poaceae	A
<i>Psacalium pentaflorum</i> B. L. Turner.	Asteraceae	P
<i>Pseuderanthemum preacox</i> (Benth.) Leonard	Acanthaceae	P
<i>Rhus schmidelioides</i> Schtdl.	Anarcadiaceae	S
<i>Rubus</i> sp.	Rosaceae	S
<i>Ruellia jaliscana</i> Standl.	Acanthaceae	P
<i>Salvia iodantha</i> Fernald	Lamiaceae	S

<i>Salvia thyrsoiflora</i> Benth.	Lamiaceae	S
<i>Sida braclayi</i> E.G. Baker	Malvaceae	P
<i>Sida rhombifolia</i> L.	Malvaceae	S
<i>Solanum aphyodendron</i> S. Knapp	Solanaceae	S
<i>Solanum brevipedicellatum</i> Roe	Solanaceae	T
<i>Solanum ferrugineum</i> Jacq.	Solanaceae	S
<i>Solanum nigricans</i> Mart. & Galeotti	Solanaceae	S
<i>Solanum</i> sp.	Solanaceae	S
<i>Sonchus oleraceus</i> L.	Asteraceae	A
<i>Spermacoce assurgens</i> Ruiz & Pavón.	Rubiaceae	P
<i>Stachys</i> sp.	Lamiaceae	A
<i>Stachys manantlanensis</i> B. L. Turner	Lamiaceae	P
<i>Stellaria cuspidata</i> Willd. ex Schldt.	Caryophyllaceae	A
<i>Stellaria</i> sp.	Caryophyllaceae	A
<i>Stemodia macrantha</i> B.L. Rob	Plantaginaceae	A
<i>Stevia organoides</i> Kunt	Asteraceae	P
<i>Tillandsia orgiesiana</i> E. Morrren ex Mez.	Bromeliaceae	P
<i>Tinantia erecta</i> (Jacq.) Schldt.	Commelinaceae	A
<i>Tragia affinis</i> B. L. Rob. & Greenm	Euphorbiaceae	P
<i>Trifolium amabile</i> H. B. K.	Fabaceae	P
<i>Verbena carolina</i> L.	Verbenaceae	P
<i>Vitis tiliifolia</i> Planch.	Vitaceae	C
Species 1 (Fern)	Aspleniaceae	P
Species 2 (Fern)	Aspleniaceae	P

---

### Appendix S3. Understory vegetation before and after burning

Density of plants (m<sup>-2</sup>) before prescribed burning (BB) and seedlings and plants with resprouts in the understory vegetation six months after burning (AB<sub>6mo</sub>). Family and growth form (GF) of the species are shown. A = Annual herbaceous, C = Climbing, P = Perennial herbaceous, S = Shrub, T = Tree, (-) = undetermined. Values are means ± 1 s.e.

Species	Family	GF	Density (m <sup>-2</sup> )		
			Plants BB	Seedlings AB <sub>6mo</sub>	Resprouter AB <sub>6mo</sub>
<i>Acacia angustissima</i> (Mill.) Kuntze var. <i>angustissima</i>	Mimosaceae	T	0.01±0.01	–	–
<i>Acalypha</i> sp.	Euphorbiaceae	P	0.04±0.02	0.15±0.03	–
<i>Aeschynomene villosa</i> Poir var. <i>villosa</i>	Fabaceae	P	–	0.34±0.16	–
<i>Alnus</i> sp.	Betulaceae	T	0.01±0.01	–	–
<i>Ageratina choricephala</i> B. L. Rob.	Asteraceae	S	1.0±0.1	3.0±0.7	0.3±0.05
<i>Ageratina</i> sp.	Asteraceae	S	0.12±0.04	–	–
<i>Antigonon flavescens</i> S. Watson.	Polygonaceae	C	0.21±0.11	0.43±0.21	–
<i>Arbutus xalapensis</i> H. B. K.	Ericaceae	T	0.02±0.01	0.02±0.01	–
<i>Bomarea hirtella</i> (H. B. K.) Herb.	Liliaceae	P	0.01±0.01	–	–
<i>Calliandra longipedicellata</i> (McVaugh) Macqueen & H.M. Hern	Mimosaceae	T	0.08±0.02	0.07±0.01	0.01±0.005
<i>Cestrum</i> sp.	Solanaceae	S	–	0.04±0.02	–
<i>Citharexylum mocinii</i> D. Don	Verbenaceae	T	0.001±0.001	–	–
<i>Clethra</i> sp.	Clethraceae	T	0.001±0.001	–	–
<i>Conyza</i> sp.	Asteraceae	P	0.01±0.01	–	–
<i>Cornus disciflora</i> DC.	Cornaceae	T	0.01±0.01	–	–
<i>Cosmos bipinnatus</i> Cav.	Asteraceae	A	–	0.02±0.02	–
<i>Crotalaria longirostrata</i> Hook. & Arn.	Fabaceae	S	0.10±0.04	0.06±0.01	–
<i>Crusea coccinea</i> DC.	Rubiaceae	P	0.02±0.02	–	–

<i>Cyperus</i> sp.	Cyperaceae	P	0.02±0.02	–	–
<i>Desmodium occidentale</i> (Morton) Standl.	Fabaceae	S	–	0.06±0.01	–
<i>Desmodium urarioides</i> (Blake) B.G. Schubert & MeVaugh	Fabaceae	A	0.40±0.30	0.54±0.32	–
<i>Dioscorea jaliscana</i> S. Watson	Dioscoreaceae	P	–	0.02±0.02	–
<i>Drymaria cordata</i> (L.) Wiilld. ex Roem. & Schult.	Caryophyllaceae	A	0.01±0.01	–	–
<i>Drymaria</i> sp.	Caryophyllaceae	A	0.02±0.02	–	–
<i>Eriosema diffusum</i> (H. B. K.) G. Don	Fabaceae	P	0.02±0.02	–	–
<i>Festuca breviglumis</i> Swallen	Poaceae	P	0.4±0.4	0.2±0.1	–
<i>Fraxinus uhdei</i> (Wenz.) Lingelsh.	Oleaceae	T	–	0.002±0.002	–
<i>Fuchsia</i> sp.	Onagraceae	S	0.04±0.02	0.03±0.02	–
<i>Garrya</i> sp.	Garryaceae	T	0.001±0.001	–	–
<i>Geranium seemannii</i> Peyr.	Geraniaceae	P	0.05±0.05	–	–
<i>Guardiola tulocarpus</i> A. Gray	Asteraceae	S	–	0.01±0.01	–
<i>Hymenocallis azteciana</i> Traub	Liliaceae	P	–	0.03±0.01	–
<i>Hypoxis mexicana</i> Schult.	Liliaceae	P	–	0.02±0.02	–
<i>Hyptis oblongifolia</i> Benth.	Lamiaceae	S	0.04±0.04	–	–
<i>Ilex brandegeana</i> Loes.	Aquifoliaceae	T	0.001±0.001	–	–
<i>Magnolia iltisiana</i> A. Vázquez	Magnoliaceae	T	0.02±0.01	0.01±0.01	–
<i>Marina</i> sp.	Fabaceae	S	–	0.10±0.04	–
<i>Micropleura renifolia</i> Lag.	Apiaceae	P	0.04±0.04	0.20±0.10	–
<i>Mimosa galeottii</i> Benth.	Mimosaceae	T	0.01±0.01	0.10±0.04	–
<i>Monnina xalapensis</i> H. B. K.	Polygalaceae	S	0.01±0.01	0.04±0.02	–
<i>Oplismenus compositus</i> (L.) Beauv.	Poaceae	P	3.3±1.3	0.40±0.14	–
<i>Oxalis corniculata</i> L.	Oxalidaceae	P	–	0.50±0.42	–
<i>Oxalis hernandesii</i> DC.	Oxalidaceae	P	–	0.5±0.4	–
<i>Panicum albomaculatum</i> Scribn.	Poaceae	P	0.10±0.05	2.0±1.0	0.01±0.01
<i>Persea hintonii</i> C. K. Allen	Lauraceae	T	0.01±0.01	–	–
<i>Phaseolus</i> sp.	Fabaceae	A	0.01±0.01	–	–
<i>Phaseolus coccineus</i> L.	Fabaceae	A	0.04±0.04	–	–

<i>Physalis</i> sp.	Solanaceae	A	0.01±0.01	–	–
<i>Phytolacca icosandra</i> L.	Phytolaccaceae	P	–	0.02±0.01	–
<i>Pinus</i> sp.	Pinaceae	T	0.01±0.005	0.10±0.01	–
<i>Polystichum</i> sp.	Aspleniaceae	P	–	0.02±0.01	–
<i>Prunus</i> sp.	Rosaceae	S	–	0.01±0.01	–
<i>Psacalium pentaflorum</i> B. L. Turner	Asteraceae	P	0.25±0.01	0.02±0.02	–
<i>Pteridium feei</i> (Fée) Maxon ex Faull	Davalliaceae	P	0.10±0.04	–	–
<i>Quercus candicans</i> Née	Fagaceae	T	0.01±0.01	0.02±0.01	–
<i>Quercus obtusata</i> Humb. & Bonpl.	Fagaceae	T	0.03±0.02	0.01±0.01	–
<i>Quercus scytophylla</i> Liebm.	Fagaceae	T	0.07±0.03	0.08±0.06	–
<i>Ranunculus petiolaris</i> H. B. K.	Ranunculaceae	P	–	0.05±0.03	–
<i>Rhus schmidelioides</i> Schldtl.	Anacardiaceae	S	0.22±0.05	0.50±0.20	0.03±0.02
<i>Rubus</i> sp.	Rosaceae	S	–	0.02±0.02	–
<i>Ruellia jaliscana</i> Standl.	Acanthaceae	S	0.22±0.05	0.03±0.03	–
<i>Salvia iodantha</i> Fernald	Lamiaceae	S	–	0.01±0.01	–
<i>Salvia lavanduloides</i> H. B. K.	Lamiaceae	P	0.10±0.05	0.02±0.01	–
<i>Salvia thyrsoiflora</i> Benth.	Lamiaceae	P	0.01±0.01	0.10±0.02	0.02±0.01
<i>Sedum tortuosum</i> Hemsl.	Crassulaceae	P	0.04±0.03	–	–
<i>Sida rhombifolia</i> L.	Malvaceae	P	–	0.10±0.10	–
<i>Sideroxylon</i> sp.	Sapotaceae	T	–	0.01±0.01	–
<i>Solanum aphyodendron</i> S. Knapp	Solanaceae	S	0.10±0.06	0.04±0.01	–
<i>Solanum ferrugineus</i> Jacq.	Solanaceae	OS00	–	0.02±0.02	–
<i>Solanum nigricans</i> Mart. & Galeotti	Solanaceae	S	0.10±0.1	0.01±0.01	–
<i>Stevia</i> sp.	Asteraceae	P	–	0.01±0.01	–
<i>Styrax argenteus</i> C. Presl	Styracaceae	T	0.01±0.01	–	–
<i>Thalictrum pringlei</i> S. Watson	Ranunculaceae	S	0.01±0.01	–	–
<i>Tigridia</i> sp.	Iridaceae	P	–	0.06±0.04	–
<i>Verbesina greenmani</i> Urb.	Asteraceae	S	–	0.01±0.01	–
<i>Veronia bealliae</i> McVaugh	Asteraceae	S	0.01±0.01	0.01±0.01	–
<i>Xilosma flexuosum</i> (H. B. K.) Hemsl.	Flacourtiaceae	T	–	0.01±0.01	–

Species 1	Melostomataceae	A	-	0.01±0.01	-
<i>Density</i>					
Perennial herbaceous			4.51	4.76	0.03
Annual herbaceous			0.49	0.58	0
Shrub			1.97	4	0.33
Tree			0.304	0.432	0
Climbing			0.21	0.43	0
Total			7.5	10.2	0.36
<i>Number of species</i>					
Perennial herbaceous			16	20	2
Annual herbaceous			6	4	0
Shrub			12	19	2
Tree			17	11	1
Climbing			1	1	0
Total			52	55	5