

Table S1. List of sampled plant species and their main characteristics. Species are classified into and (ordered by) taxonomic families (according to López Tirado, 2018). Species are also classified into degrees of commonness within the hill sector of the Córdoba Municipality (adapted from López Tirado, 2018), typical life form (Valdés Castrillón *et al.*, 1987; Di Gregorio, 2005), and most common mode of seed dispersal (Herrera, 1995; Sánchez & Peco, 2002; Bonet & Pausas, 2004; Martín Mosquero *et al.*, 2005; Alday *et al.*, 2011; Voigt *et al.*, 2011; Pemán García *et al.*, 2013; Parolin *et al.*, 2014; González-Varo *et al.*, 2015; La Mantia *et al.*, 2019). Species presence at each site is included (LS=La Soledad, LN=Las Niñas, P=Piquín). Species nomenclature was based on work by López-Tirado (2018).

| Family | Species name | Mode of dispersal | Life form | Commonness | Species presence | | |
|-------------|-----------------------------------|-------------------|-------------|------------|------------------|---------|--------|
| | | | | | LS (33) | LN (38) | P (35) |
| Pinaceae | <i>Pinus pinea</i> L. | dyszoochory | tree | common | ✓ | | |
| Lauraceae | <i>Laurus nobilis</i> L. | endozoochory | tree | rare | ✓ | | |
| Fagaceae | <i>Castanea sativa</i> Mill. | dyszoochory | tree | sporadic | | ✓ | |
| | <i>Quercus coccifera</i> L. | dyszoochory | shrub | common | ✓ | ✓ | |
| | <i>Quercus ilex</i> L. | dyszoochory | tree | common | ✓ | ✓ | ✓ |
| | <i>Quercus suber</i> L. | dyszoochory | tree | common | | ✓ | |
| Ulmaceae | <i>Celtis australis</i> L. | endozoochory | tree | usual | ✓ | ✓ | ✓ |
| | <i>Ulmus minor</i> Mill. | anemochory | tree | common | | ✓ | |
| Moraceae | <i>Ficus carica</i> L. | endozoochory | tree | common | ✓ | | ✓ |
| Cistaceae | <i>Cistus albidus</i> L. | anemochory | shrub | common | ✓ | ✓ | ✓ |
| | <i>Cistus crispus</i> L. | anemochory | dwarf shrub | common | | ✓ | ✓ |
| | <i>Cistus ladanifer</i> L. | anemochory | shrub | common | ✓ | ✓ | ✓ |
| | <i>Cistus salviifolius</i> L. | anemochory | dwarf shrub | common | ✓ | ✓ | |
| | <i>Halimium umbellatum</i> Spach | anemochory | dwarf shrub | sporadic | | ✓ | |
| Capparaceae | <i>Capparis spinosa</i> L. | endozoochory | dwarf shrub | rare | ✓ | ✓ | ✓ |
| Ericaceae | <i>Arbutus unedo</i> L. | endozoochory | shrub | common | ✓ | ✓ | ✓ |
| | <i>Erica arborea</i> L. | anemochory | shrub | common | ✓ | | ✓ |
| Rosaceae | <i>Crataegus monogyna</i> Jacq. | endozoochory | tree | common | ✓ | | |
| | <i>Prunus domestica</i> L. | endozoochory | tree | rare | ✓ | | |
| | <i>Prunus dulcis</i> (Mill.) Webb | dyszoochory | tree | sporadic | ✓ | | |
| | <i>Rubus ulmifolius</i> Schott | endozoochory | vine | common | ✓ | ✓ | ✓ |
| Fabaceae | <i>Adenocarpus telonensis</i> DC. | barochory | shrub | frequent | ✓ | ✓ | ✓ |
| | <i>Coronilla juncea</i> L. | anemochory | shrub | sporadic | | | ✓ |

| | | | | | | | |
|----------------|--|--------------|-------------|----------|---|---|---|
| | <i>Cytisus scoparius</i> (L.) Link | barochory | shrub | usual | ✓ | ✓ | ✓ |
| | <i>Genista hirsuta</i> Vahl | barochory | dwarf shrub | common | ✓ | ✓ | ✓ |
| | <i>Ononis spinosa</i> L. | barochory | dwarf shrub | usual | ✓ | | ✓ |
| | <i>Retama sphaerocarpa</i> Boiss | endozoochory | shrub | common | | ✓ | ✓ |
| Thymelaceae | <i>Daphne gnidium</i> L. | endozoochory | shrub | common | ✓ | ✓ | ✓ |
| Santalaceae | <i>Osyris alba</i> L. | endozoochory | shrub | common | ✓ | ✓ | ✓ |
| Rhamnaceae | <i>Rhamnus alaternus</i> L. | endozoochory | shrub | usual | ✓ | ✓ | ✓ |
| | <i>Rhamnus oleoides</i> L. | endozoochory | shrub | usual | | ✓ | ✓ |
| Anacardiaceae | <i>Pistacia lentiscus</i> L. | endozoochory | shrub | common | ✓ | ✓ | ✓ |
| | <i>Pistacia terebinthus</i> L. | endozoochory | shrub | usual | ✓ | ✓ | ✓ |
| Rutaceae | <i>Ruta montana</i> L. | barochory | dwarf shrub | common | | ✓ | ✓ |
| Meliaceae | <i>Melia azedarach</i> L. | endozoochory | tree | rare | | ✓ | |
| Lamiaceae | <i>Calamintha nepeta</i> (L.) Kuntze | anemochory | forb | sporadic | | ✓ | ✓ |
| | <i>Lavandula stoechas</i> L. | barochory | dwarf shrub | common | ✓ | ✓ | ✓ |
| | <i>Marrubium vulgare</i> L. | barochory | forb | usual | | ✓ | |
| | <i>Origanum vulgare</i> L. | anemochory | forb | sporadic | | ✓ | |
| | <i>Phlomis purpurea</i> L. | anemochory | shrub | common | | ✓ | ✓ |
| | <i>Teucrium fruticans</i> L. | barochory | shrub | usual | | | ✓ |
| | <i>Thymus mastichina</i> L. | anemochory | dwarf shrub | usual | ✓ | ✓ | |
| Caprifoliaceae | <i>Lonicera implexa</i> Aiton | endozoochory | vine | usual | ✓ | ✓ | ✓ |
| Adoxaceae | <i>Viburnum tinus</i> L. | endozoochory | shrub | common | ✓ | ✓ | ✓ |
| Asteraceae | <i>Dittrichia viscosa</i> (L.) Greuter | anemochory | shrub | common | | ✓ | |
| | <i>Helichrysum stoechas</i> (L.) DC. | anemochory | dwarf shrub | common | ✓ | | ✓ |
| | <i>Phagnalon saxatile</i> L. | anemochory | forb | common | ✓ | ✓ | ✓ |
| Smilacaceae | <i>Smilax aspera</i> L. | endozoochory | vine | common | ✓ | ✓ | ✓ |
| Liliaceae | <i>Asparagus albus</i> L. | endozoochory | vine | common | | | ✓ |
| | <i>Asparagus acutifolius</i> L. | endozoochory | vine | common | ✓ | ✓ | ✓ |

Table S2. Full list of the random effect coefficients for species intercept and slope in the binomial GLMM used to quantify turnover across area. Please note the coefficients are in the logit scale. The table also so includes the probability of each species being present at hypothetical patches of zero area (this is equivalent to the intercept coefficient in the real scale) and at patches of 250 m², approximately maximum sampled area. Coefficients and probabilities are ordered from largest to smallest values.

| Model coefficients | | | | Probability of species presence | | | |
|-------------------------------|--------|------------------------|-------|---------------------------------|-------|---------------------------|-------|
| Intercept | | Gradient | | Area = 0 m ² | | Area = 250 m ² | |
| <i>Asparagus acutifolius</i> | 0.780 | <i>R. alaternus</i> | 0.031 | <i>A. acutifolius</i> | 0.686 | <i>A. acutifolius</i> | 1.000 |
| <i>Rhamnus alaternus</i> | 0.212 | <i>A. acutifolius</i> | 0.032 | <i>R. alaternus</i> | 0.553 | <i>R. alaternus</i> | 1.000 |
| <i>Rubus ulmifolius</i> | -0.093 | <i>S. aspera</i> | 0.031 | <i>R. ulmifolius</i> | 0.477 | <i>S. aspera</i> | 0.999 |
| <i>Smilax aspera</i> | -0.278 | <i>R. ulmifolius</i> | 0.025 | <i>S. aspera</i> | 0.431 | <i>R. ulmifolius</i> | 0.998 |
| <i>Quercus ilex</i> | -1.351 | <i>L. implexa</i> | 0.021 | <i>Q. ilex</i> | 0.206 | <i>V. tinus</i> | 0.970 |
| <i>Viburnum tinus</i> | -1.448 | <i>A. telonensis</i> | 0.020 | <i>V. tinus</i> | 0.190 | <i>O. alba</i> | 0.947 |
| <i>Cistus albidus</i> | -1.753 | <i>V. tinus</i> | 0.020 | <i>C. albidus</i> | 0.148 | <i>A. telonensis</i> | 0.912 |
| <i>Osyris alba</i> | -1.755 | <i>P. terebinthus</i> | 0.019 | <i>O. alba</i> | 0.147 | <i>L. implexa</i> | 0.885 |
| <i>Daphne gnidium</i> | -2.020 | <i>O. alba</i> | 0.019 | <i>D. gnidium</i> | 0.117 | <i>G. hirsuta</i> | 0.879 |
| <i>Celtis australis</i> | -2.066 | <i>C. salviifolius</i> | 0.018 | <i>C. australis</i> | 0.112 | <i>C. albidus</i> | 0.878 |
| <i>Phagnalon saxatile</i> | -2.191 | <i>G. hirsuta</i> | 0.018 | <i>P. saxatile</i> | 0.101 | <i>D. gnidium</i> | 0.868 |
| <i>Adenocarpus telonensis</i> | -2.578 | <i>P. lentiscus</i> | 0.017 | <i>A. telonensis</i> | 0.071 | <i>P. lentiscus</i> | 0.855 |
| <i>Genista hirsuta</i> | -2.595 | <i>D. gnidium</i> | 0.016 | <i>G. hirsuta</i> | 0.069 | <i>P. terebinthus</i> | 0.847 |
| <i>Pistacia lentiscus</i> | -2.597 | <i>L. stoechas</i> | 0.015 | <i>P. lentiscus</i> | 0.069 | <i>C. salviifolius</i> | 0.830 |
| <i>Cistus crispus</i> | -2.911 | <i>C. albidus</i> | 0.015 | <i>C. crispus</i> | 0.052 | <i>Q. ilex</i> | 0.692 |
| <i>Helichrysum stoechas</i> | -2.930 | <i>A. unedo</i> | 0.015 | <i>H. stoechas</i> | 0.051 | <i>C. crispus</i> | 0.631 |
| <i>Asparagus albus</i> | -2.957 | <i>C. crispus</i> | 0.014 | <i>A. albus</i> | 0.049 | <i>L. stoechas</i> | 0.592 |
| <i>Pistacia terebinthus</i> | -2.957 | <i>L. nobilis</i> | 0.013 | <i>P. terebinthus</i> | 0.049 | <i>P. saxatile</i> | 0.590 |
| <i>Cistus salviifolius</i> | -2.991 | <i>C. nepeta</i> | 0.013 | <i>C. salviifolius</i> | 0.048 | <i>C. australis</i> | 0.587 |
| <i>Marrubium vulgare</i> | -3.016 | <i>R. montana</i> | 0.013 | <i>M. vulgare</i> | 0.047 | <i>L. nobilis</i> | 0.536 |
| <i>Laurus nobilis</i> | -3.131 | <i>O. spinosa</i> | 0.012 | <i>L. nobilis</i> | 0.042 | <i>A. unedo</i> | 0.496 |
| <i>Calamintha nepeta</i> | -3.280 | <i>F. carica</i> | 0.011 | <i>C. nepeta</i> | 0.036 | <i>C. nepeta</i> | 0.490 |
| <i>Lonicera implexa</i> | -3.344 | <i>R. sphaerocarpa</i> | 0.011 | <i>L. implexa</i> | 0.034 | <i>H. stoechas</i> | 0.409 |
| <i>Lavandula stoechas</i> | -3.455 | <i>H. stoechas</i> | 0.010 | <i>L. stoechas</i> | 0.031 | <i>R. montana</i> | 0.310 |
| <i>Ulmus minor</i> | -3.768 | <i>P. saxatile</i> | 0.010 | <i>U. minor</i> | 0.023 | <i>A. albus</i> | 0.294 |
| <i>Arbutus unedo</i> | -3.798 | <i>C. spinosa</i> | 0.010 | <i>A. unedo</i> | 0.022 | <i>R. sphaerocarpa</i> | 0.194 |

Supplementary table to the article “Vegetation patches in semiabandoned olive groves: using generalised linear mixed models to determine the effect of area on community composition of woody plants”, by Francisco Navarro-Rosales and Matthew B. V. Bell. *Forest Systems* Vol. 31 No. 2, 2022
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|----------------------------|--------|----------------------|-------|------------------------|-------|----------------------|-------|
| <i>Coronilla juncea</i> | -3.844 | <i>Q. coccifera</i> | 0.010 | <i>C. juncea</i> | 0.021 | <i>C. scoparius</i> | 0.192 |
| <i>Cytisus scoparius</i> | -3.870 | <i>M. azedarach</i> | 0.010 | <i>C. scoparius</i> | 0.020 | <i>C. juncea</i> | 0.182 |
| <i>Ruta montana</i> | -3.931 | <i>P. domestica</i> | 0.010 | <i>R. montana</i> | 0.019 | <i>O. spinosa</i> | 0.159 |
| <i>Retama sphaerocarpa</i> | -4.066 | <i>C. scoparius</i> | 0.010 | <i>R. sphaerocarpa</i> | 0.017 | <i>C. spinosa</i> | 0.155 |
| <i>Pinus pinea</i> | -4.138 | <i>C. australis</i> | 0.010 | <i>P. pinea</i> | 0.016 | <i>Q. coccifera</i> | 0.154 |
| <i>Quercus coccifera</i> | -4.199 | <i>T. mastichina</i> | 0.010 | <i>Q. coccifera</i> | 0.015 | <i>F. carica</i> | 0.126 |
| <i>Capparis spinosa</i> | -4.211 | <i>H. umbellatum</i> | 0.009 | <i>C. spinosa</i> | 0.015 | <i>P. purpurea</i> | 0.106 |
| <i>Phlomis purpurea</i> | -4.324 | <i>C. juncea</i> | 0.009 | <i>P. purpurea</i> | 0.013 | <i>P. domestica</i> | 0.103 |
| <i>Quercus suber</i> | -4.413 | <i>C. ladanifer</i> | 0.009 | <i>Q. suber</i> | 0.012 | <i>C. ladanifer</i> | 0.092 |
| <i>Rhamnus oleoides</i> | -4.454 | <i>P. purpurea</i> | 0.009 | <i>R. oleoides</i> | 0.011 | <i>T. fruticans</i> | 0.085 |
| <i>Erica arborea</i> | -4.526 | <i>T. fruticans</i> | 0.009 | <i>E. arborea</i> | 0.011 | <i>M. azedarach</i> | 0.081 |
| <i>Teucrium fruticans</i> | -4.552 | <i>Q. ilex</i> | 0.009 | <i>T. fruticans</i> | 0.010 | <i>T. mastichina</i> | 0.079 |
| <i>Cistus ladanifer</i> | -4.572 | <i>A. albus</i> | 0.008 | <i>C. ladanifer</i> | 0.010 | <i>E. arborea</i> | 0.079 |
| <i>Prunus domestica</i> | -4.604 | <i>E. arborea</i> | 0.008 | <i>P. domestica</i> | 0.010 | <i>M. vulgare</i> | 0.076 |
| <i>Ficus carica</i> | -4.668 | <i>O. vulgare</i> | 0.007 | <i>F. carica</i> | 0.009 | <i>U. minor</i> | 0.070 |
| <i>Ononis spinosa</i> | -4.748 | <i>R. oleoides</i> | 0.006 | <i>O. spinosa</i> | 0.009 | <i>H. umbellatum</i> | 0.056 |
| <i>Thymus mastichina</i> | -4.870 | <i>U. minor</i> | 0.005 | <i>T. mastichina</i> | 0.008 | <i>R. oleoides</i> | 0.052 |
| <i>Melia azedarach</i> | -4.876 | <i>C. sativa</i> | 0.005 | <i>M. azedarach</i> | 0.008 | <i>P. pinea</i> | 0.041 |
| <i>Castanea sativa</i> | -5.135 | <i>Q. suber</i> | 0.005 | <i>C. sativa</i> | 0.006 | <i>O. vulgare</i> | 0.038 |
| <i>Crataegus monogyna</i> | -5.135 | <i>C. monogyna</i> | 0.004 | <i>C. monogyna</i> | 0.006 | <i>Q. suber</i> | 0.036 |
| <i>Dittrichia viscosa</i> | -5.136 | <i>D. viscosa</i> | 0.004 | <i>D. viscosa</i> | 0.006 | <i>C. sativa</i> | 0.019 |
| <i>Prunus dulcis</i> | -5.138 | <i>P. pinea</i> | 0.004 | <i>P. dulcis</i> | 0.006 | <i>C. monogyna</i> | 0.017 |
| <i>Origanum vulgare</i> | -5.158 | <i>P. dulcis</i> | 0.003 | <i>O. vulgare</i> | 0.006 | <i>D. viscosa</i> | 0.016 |
| <i>Halimium umbellatum</i> | -5.207 | <i>M. vulgare</i> | 0.002 | <i>H. umbellatum</i> | 0.005 | <i>Prunus dulcis</i> | 0.014 |