

# **Threatened plants of arid ecosystems in the Mediterranean Basin: a case study of the south-eastern Iberian Peninsula**

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TABLE S1 Threatened plant taxa in the arid zones of the Mediterranean Basin, with their endemism, abbreviations and conservation status in 2005, 2008 and 2009, as listed on the Lista Roja de la Flora Vasculosa de Andalucía (Cabezudo et al., 2005), the Lista Roja de la Flora Vasculosa Española Amenazada (Moreno Saiz, 2008) and the Flora Vasculosa de Andalucía Oriental (Blanca et al., 2009), respectively, and the conservation status used for reserve selection. Blank cells indicate that taxa were not categorized.

Taxon	Endemism	Abbreviation	Conservation status			
			2005	2008	2009	Status for Selection
<i>Achillea santolinoides</i> Lag.	Ibero-Magrebiana	<i>Ach_san</i>		VU	VU	VU
<i>Ammochloa palaestina</i> Boiss.	Mediterranean & large distribution	<i>Amm_pal</i>	VU	VU	VU	VU
<i>Anacyclus alboranensis</i> Esteve & Varo	South-east Spain	<i>Ana_alb</i>	CR	CR	CR	CR
<i>Androcymbium gramineum</i> (Cav.) T. McBride	South-east Spain	<i>And_gra</i>	VU	VU	VU	VU
<i>Antirrhinum charidemi</i> Lange	South-east Spain	<i>Ant_cha</i>	EN	CR	CR	CR
<i>Arenaria arcuatociliata</i> G. López & Nieto Fel.	South-east Spain	<i>Are_arc</i>	VU	VU	VU	VU
<i>Artemisia caerulescens</i> subsp. <i>gallica</i> (Willd.) K. Persson	Mediterranean & large distribution	<i>Art_gal</i>			VU	VU
<i>Artemisia lucentica</i> O. Bolòs, Vallès & Vigo	Iberian	<i>Art_luc</i>			NT	NT
<i>Astragalus castroviejoi</i> Talavera & Sánchez-Gómez	Mediterranean & large distribution	<i>Ast_cas</i>				CR <sup>1</sup>
<i>Astragalus edulis</i> Bunge	Iberian	<i>Ast_edu</i>	EN	EN	EN	EN
<i>Astragalus guttatus</i> Banks & Sol.	Ibero-Magrebiana	<i>Ast_gut</i>			CR	CR
<i>Astragalus longidentatus</i> Chater	Mediterranean & large distribution	<i>Ast_lon</i>	DD	NT	NT	NT

<i>Astragalus oxyglottis</i> M. Bieb.	Ibero-Magrebian	<i>Ast_oxy</i>	CR	VU	CR	CR
<i>Asteriscus pygmaeus</i> Coss. & Durieu	Mediterranean & large distribution	<i>Ast_pyg</i>		NT	NT	NT
<i>Astragalus peregrinus</i> Vahl subsp. <i>warionis</i> (Gaud.) Maire	Ibero-Magrebian	<i>Ast_war</i>			CR	CR
<i>Boreava aptera</i> Boiss. & Heldr.	Mediterranean & large distribution	<i>Bor_apt</i>	EN	EN	EN	EN
<i>Campanula fastigiata</i> Dufour ex A. DC.	Ibero-Magrebian	<i>Cam_fas</i>			NT	NT
<i>Camphorosma monspeliaca</i>	Mediterranean & large distribution	<i>Cam_mon</i>	DD		DD	DD
<i>Caralluma europaea</i> (Guss.) N. E. Br.	Mediterranean & large distribution	<i>Car_eur</i>	EN	EN	EN	EN
<i>Carum foetidum</i> (Coss. & Durieu ex Batt.) Drude	Iberian	<i>Car_foe</i>	CR	CR	CR	CR
<i>Carduus myriacanthus</i> DC.	Iberian	<i>Car_myri</i>	EN	EN	EN	EN
<i>Carduus meonanthus</i> subsp. <i>valentinus</i> (Boiss. & Reut.) Devesa & Talavera	Ibero-Magrebian	<i>Car_val</i>	EN		NT	NT
<i>Castellia tuberculosa</i> (Moris) Bor.	Mediterranean & large distribution	<i>Cas_tub</i>			DD	DD
<i>Centaurea barrasii</i> Pau	South-east Spain	<i>Cen_bar</i>		VU	VU	VU
<i>Centaurea dracunculifolia</i> Dufour	Iberian	<i>Cen_dra</i>	DD		CR	CR
<i>Centaurea kunkelii</i> García-Jacas	South-east Spain	<i>Cen_kun</i>	CR	CR	CR	CR
<i>Centaurea maroccana</i> L.	Ibero-Magrebian	<i>Cen_mar</i>		NT	LC	NT
<i>Centaurea nicaeensis</i> All.	Mediterranean & large distribution	<i>Cen_nic</i>			VU	VU
<i>Centaurea saxicola</i> Lag.	South-east Spain	<i>Cen_sax</i>		NT	NT	NT

<i>Centaurea saxifraga</i> Coincy	South-east Spain	<i>Cen_saf</i>	EN	CR	CR	CR
<i>Centaureum triphyllum</i> (W. L. E. Schmidt) Melderis	Iberian	<i>Cen_tri</i>	EN		EN	EN
<i>Ceratocarpus heterocarpus</i> Durieu	Ibero-Magrebian	<i>Cer_het</i>	VU	EN	VU	VU
<i>Chaenorhinum grandiflorum</i> subsp. <i>carthaginense</i> (Pau) Benedí	Mediterranean & large distribution	<i>Cha_car</i>		NT	LC	NT
<i>Chaenorhinum exile</i> (Coss. & Kralik) Lange in Vidensk	Iberian	<i>Cha_exi</i>				EN <sup>1</sup>
<i>Chaenorhinum grandiflorum</i> subsp. <i>grandiflorum</i> (Coss.) Willk.	Iberian	<i>Cha_gra</i>	DD	NT	LC	NT
<i>Chaenorhinum reyesii</i> (C. Vicioso & Pau) Benedí	Iberian	<i>Cha_rey</i>				VU <sup>1</sup>
<i>Cheirolophus intybaceus</i> (Lam.) Dostál	Mediterranean & large distribution	<i>Che_int</i>	VU		VU	VU
<i>Cistanche phelypaea</i> (L.) Cout.	Mediterranean & large distribution	<i>Cis_phe</i>	DD	NT	NT	NT
<i>Clypeola eriocarpa</i> Cav.	Iberian	<i>Cly_eri</i>	CR	CR	CR	CR
<i>Cochlearia glastifolia</i> L.	Iberian	<i>Coc_gla</i>	EN		EN	EN
<i>Commicarpus africanus</i> (Lour.) Dandy	Mediterranean & large distribution	<i>Com_afr</i>		VU	DD	VU
<i>Convolvulus valentinus</i> Cav.	Mediterranean & large distribution	<i>Con_val</i>		EN	NT	EN
<i>Coris hispanica</i> Lange	South-east Spain	<i>Cor_his</i>	VU	VU	VU	VU
<i>Cressa cretica</i> L.	Mediterranean & large distribution	<i>Cre_cre</i>			NT	NT
<i>Ctenopsis gypsophila</i> (Hack.) Paunero	Mediterranean & large distribution	<i>Cte_gyp</i>	VU		VU	VU

<i>Cucubalus baccifer</i> L.	Mediterranean & large distribution	<i>Cuc_bac</i>		NT	NT	
<i>Cynomorium coccineum</i> L.	Ibero-Magrebian	<i>Cyn_coc</i>	VU	VU	VU	
<i>Cynara tournefortii</i> Boiss-& Reuter	Iberian	<i>Cyn_tou</i>		CR	CR	CR
<i>Cytisus arboreus</i> subsp. <i>Catalaunicus</i> (Webb.) Maire	Mediterranean & large distribution	<i>Cyt_cat</i>	EN	EN	EN	
<i>Cytisus malacitanus</i> Boiss.	South-east Spain	<i>Cyt_mal</i>	NT	NT	NT	NT
<i>Dianthus charidemii</i> Pau	South-east Spain	<i>Dia_cha</i>	VU	VU	VU	VU
<i>Diplotaxis siettiana</i> Maire	South-east Spain	<i>Dip_sie</i>	CR	CR	CR	CR
<i>Dorycnium gracile</i> Jord.	Mediterranean & large distribution	<i>Dor_gra</i>	VU	VU	VU	
<i>Ephedra nebrodensis</i> Tineo ex Guss.	Mediterranean & large distribution	<i>Eph_neb</i>	NT	NT	NT	
<i>Euphorbia briquetii</i> Emb. & Maire	Ibero-Magrebian	<i>Eup_bri</i>		VU	NT	NT
<i>Euzomodendron bourgaeum</i> Coss.	South-east Spain	<i>Euz_bou</i>	VU	VU	VU	VU
<i>Filago desertorum</i> Pomel	Iberian	<i>Fil_des</i>		NT	NT	NT
<i>Filago mareotica</i> Delile	Ibero-Magrebian	<i>Fil_mar</i>			NT	NT
<i>Forsskaolea tenacissima</i> L.	Mediterranean & large distribution	<i>For_ten</i>	VU	VU	VU	VU
<i>Galium ephedroides</i> Willk.	Ibero-Magrebian	<i>Gal_eph</i>	VU		VU	VU
<i>Gastroidium nitens</i> (Guss.) Coss. & Durieu	Mediterranean & large distribution	<i>Gas_nit</i>	EN		LC	DD <sup>2</sup>
<i>Guiraoa arvensis</i> Coss.	Iberian	<i>Gui_arv</i>	VU		VU	VU
<i>Gypsophila tomentosa</i> L.	Mediterranean & large distribution	<i>Gyp_tom</i>	VU		VU	VU

<i>Halocnemum strobilaceum</i> (Pall.) M. Bieb.	Mediterranean & large distribution	<i>Hal_str</i>	EN	CR	CR	CR
<i>Haplophyllum bastetanum</i> F. B. Navarro, Suár.-Sant. & Blanca	South-east Spain	<i>Hap_bas</i>	CR	CR	CR	CR
<i>Haplophyllum linifolium</i> (L.) G. Don fil.	Mediterranean & large distribution	<i>Hap_lin</i>	DD		VU	VU
<i>Haplophyllum rosmarinifolium</i> (Pers.) G. Don fil.	Iberian	<i>Hap_ros</i>	DD		VU	VU
<i>Hedypnois arenaria</i> (Schousb.) DC.	Ibero-Magrebian	<i>Hed_are</i>		VU	VU	VU
<i>Helianthemum alypoides</i> Losa & Rivas Goday	South-east Spain	<i>Hel_aly</i>	VU	VU	VU	VU
<i>Helianthemum motae</i> Sánchez-Gómez	Iberian	<i>Hel_mot</i>				CR <sup>1</sup>
<i>Herniaria fontanesii</i> subsp. <i>almeriana</i> Brummitt & Heywood	South-east Spain	<i>Her_alm</i>	NT		NT	NT
<i>Hypericum robertii</i> Coss. ex Batt.	Ibero-Magrebian	<i>Hyp_rob</i>	EN	EN	EN	EN
<i>Ifloga spicata</i> (Forssk.) Sch. Bip.	Ibero-Magrebian	<i>Ifl_spi</i>			LC	DD <sup>2</sup>
<i>Juniperus thurifera</i> L.	Mediterranean & large distribution	<i>Jun_thu</i>	VU		VU	VU
<i>Juniperus phoenicea</i> subsp. <i>turbinata</i> (Guss.) Nyman	Mediterranean & large distribution	<i>Jun_tur</i>	VU		VU	VU
<i>Koelpinia linearis</i> Pall.	Mediterranean & large distribution	<i>Koe_lin</i>	VU	VU	VU	VU
<i>Krascheninnikovia ceratoides</i> (L.) Gueldenst.	Mediterranean & large distribution	<i>Kra_cer</i>	EX		CR	CR
<i>Lavatera mauritanica</i>	Iberian	<i>Lav_dav</i>	DD	NT	DD	NT

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subsp. <i>davei</i> Cout.						
<i>Lavatera mauritanica</i> subsp. <i>mauritanica</i> L.	Iberian	<i>Lav_mau</i>			DD	DD
<i>Lavatera oblongifolia</i> Boiss.	South-east Spain	<i>Lav_obl</i>	VU	VU	VU	VU
<i>Lavatera triloba</i> L.	Ibero-Magrebian	<i>Lav_tri</i>			LC	DD <sup>2</sup>
<i>Leontodon hispanicus</i> Poir. subsp. <i>hispanicus</i>	Iberian	<i>Leo_his</i>	NT	NT	LC	NT
<i>Limonium alicunense</i> F. Gómez	South-east Spain	<i>Lim_ali</i>	DD	CR	CR	CR
<i>Limonium estevei</i> Fern. Casas	South-east Spain	<i>Lim_est</i>	CR	CR	CR	CR
<i>Limonium majus</i> (Boiss.) Erben	South-east Spain	<i>Lim_maj</i>	EN	EN	EN	EN
<i>Limonium minus</i> (Boiss.) Erben	South-east Spain	<i>Lim_min</i>	EN	EN	EN	EN
<i>Limonium quesadense</i> Erben	South-east Spain	<i>Lim_que</i>	EN	EN	EN	EN
<i>Limonium subglabrum</i> Erben	South-east Spain	<i>Lim_sub</i>	EN	EN	EN	EN
<i>Limonium tabernensis</i> Erben	South-east Spain	<i>Lim_tab</i>	VU	VU	VU	VU
<i>Linaria accitensis</i> L. Sáez, Juan, M.B. Crespo, F.B. Navarro, J. Peñas & Roquet	South-east Spain	<i>Lin_acc</i>			CR	CR
<i>Linaria benitoi</i> Fern. Casas	South-east Spain	<i>Lin_ben</i>	CR	CR	CR	CR
<i>Linaria nigricans</i> Lange	South-east Spain	<i>Lin_nig</i>	EN	EN	EN	EN
<i>Linaria oligantha</i> Lange	Iberian	<i>Lin_oli</i>	VU		VU	VU
<i>Linaria pedunculata</i> (L.) Chaz.	Mediterranean & large distribution	<i>Lin_ped</i>	VU	VU	VU	VU
<i>Loeflingia baetica</i> Lag.	Ibero-Magrebian	<i>Loe_bae</i>	NT		NT	NT

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<i>Lonicera biflora</i> Desf.	Ibero-Magrebian	<i>Lon_bif</i>	DD		VU	VU
<i>Lycocarpus fugax</i> (Lag.) O.E. Schulz	Iberian	<i>Lyc_fug</i>	VU		VU	VU
<i>Maresia nana</i> (DC.) Batt.	Iberian	<i>Mar_nan</i>	VU		VU	VU
<i>Maytenus senegalensis</i> subsp. <i>europaea</i> (Boiss.) Rivas Mart. ex Güemes & M.B. Crespo	Mediterranean & large distribution	<i>May_eur</i>	EN	NT	EN	EN
<i>Microcnemum</i> <i>coralloides</i> (Loscos & J. Pardo) Buen. subsp. <i>coralloides</i>	Mediterranean & large distribution	<i>Mic_cor</i>	VU	VU	VU	VU
<i>Moricandia foetida</i> Bourgeau & Cosson	South-east Spain	<i>Mor_foe</i>			LC	DD <sup>2</sup>
<i>Narcissus cuatrecasarii</i> Fern. Casas, M. Laínz & Ruiz Rejón	South-east Spain	<i>Nar_cua</i>	VU	VU	VU	VU
<i>Narcissus gaditanus</i> Boiss. & Reut.	Iberian	<i>Nar_gad</i>	VU	VU	VU	VU
<i>Narcissus tortifolius</i> Fern. Casas	South-east Spain	<i>Nar_tor</i>	VU	VU	VU	VU
<i>Neotorularia torulosa</i> (Desf.) Hedge & J. Léonard	Iberian	<i>Neo_tor</i>		VU	VU	VU
<i>Nepeta hispanica</i> Boiss. & Reut. subsp. <i>hispanica</i>	South-east Spain	<i>Nep_his</i>	DD	VU	VU	VU
<i>Ononis crassifolia</i> Dufour ex Boiss.	South-east Spain	<i>Ono_cra</i>	DD		DD	DD
<i>Ononis talaverae</i> Devesa & G. López	Ibero-Magrebian	<i>Ono_tal</i>	VU	VU	VU	VU
<i>Orobanche olbiensis</i> (Coss.) Nyman	Mediterranean & large distribution	<i>Oro_olb</i>		VU	CR	CR
<i>Orobanche ramosa</i> subsp. <i>ramosa</i> L.	Mediterranean & large distribution	<i>Oro_ram</i>		NT	NT	NT
<i>Pancratium maritimum</i> L.	Mediterranean & large distribution	<i>Pan_mar</i>	NT		NT	NT



<i>Plantago crassifolia</i> Forssk.	Mediterranean & large distribution	<i>Pla_cra</i>	EN		EN	EN
<i>Pteranthus dichotomus</i> Forssk.	Mediterranean & large distribution	<i>Pte_dic</i>	DD	VU	DD	VU
<i>Puccinellia caespitosa</i> G. Monts. & J.M. Monts.	Iberian	<i>Puc_cae</i>	VU		VU	VU
<i>Puccinellia fasciculata</i> (Torr.) E. P. Bicknell	Mediterranean & large distribution	<i>Puc_fas</i>	VU	LC	VU	VU
<i>Reseda suffruticosa</i> Loefl . ex Koelp.	Iberian	<i>Res_suf</i>	DD		DD	DD
<i>Rosmarinus eriocalyx</i> Jord. & Fourr.	Ibero-Magrebian	<i>Ros_eri</i>	EN	EN	EN	EN
<i>Rostraria salzmannii</i> (Boiss. & Reut.) J. Holub.	Ibero-Magrebian	<i>Ros_sal</i>	VU		VU	VU
<i>Salsola x masclansii</i> G. Monts & D. Gómez	South-east Spain	<i>Sal_mas</i>			CR	CR
<i>Salsola papillosa</i> Willk.	South-east Spain	<i>Sal_pap</i>	VU		VU	VU
<i>Sanguisorba ancistroides</i> (Desf.) Ces.	Ibero-Magrebian	<i>San_anc</i>	NT	NT	NT	NT
<i>Santolina viscosa</i> Lag.	Iberian	<i>San_vis</i>	VU		VU	VU
<i>Scrophularia arguta</i> Aiton	Mediterranean & large distribution	<i>Scr_arg</i>	CR		CR	CR
<i>Scrophularia frutescens</i> L.	Ibero-Magrebian	<i>Scr_fru</i>			VU	VU
<i>Senecio alboranicus</i> Maire	South-east Spain	<i>Sen_alb</i>	CR	CR	CR	CR
<i>Senecio auricula</i> Coss. subsp. <i>auricula</i>	Iberian	<i>Sen_aur</i>	EN	DD	EN	EN
<i>Senecio flavus</i> (Decne) Sch. Bip.	Mediterranean & large distribution	<i>Sen_fla</i>	VU	VU	VU	VU
<i>Sideritis pusilla</i> subsp. <i>alhamillensis</i> Obón & Ribera	Iberian	<i>Sid_alh</i>	VU			VU
<i>Sideritis ibanyezii</i> Pau	Iberian	<i>Sid_iba</i>	DD		DD	DD

<i>Sideritis lasiantha</i> A. L. Juss. ex Pers.	South-east Spain	<i>Sid_las</i>	NT	NT	NT	NT
<i>Sideritis osteoxylla</i> (Pau) Rivas Goday & Gómez García	South-east Spain	<i>Sid_ost</i>			LC	DD <sup>2</sup>
<i>Silene littorea</i> subsp. <i>adscendens</i> (Lag.) Rivas Goday	Iberian	<i>Sil_ads</i>	VU	VU	VU	VU
<i>Silene almolae</i> J. Gay	South-east Spain	<i>Sil_alm</i>	DD		LC	DD <sup>2</sup>
<i>Silene ramosissima</i> Desf.	South-east Spain	<i>Sil_ram</i>	DD		NT	NT
<i>Sisymbrium cavanillesianum</i> Castrov. & Valdés Berm.	Iberian	<i>Sis_cav</i>	DD	VU	NT	NT
<i>Sisymbrium runcinatum</i> Lag. ex DC.	Mediterranean & large distribution	<i>Sis_run</i>	DD		LC	DD <sup>2</sup>
<i>Sonchus crassifolius</i> Pourret ex Willd.	Iberian	<i>Son_cra</i>	EN		EN	EN
<i>Sonchus maritimus</i> L. subsp. <i>maritimus</i>	Mediterranean & large distribution	<i>Son_mar</i>	NT		NT	NT
<i>Sonchus pustulatus</i> Willk.	Ibero-Magrebian	<i>Son_pus</i>	CR	CR	CR	CR
<i>Succowia balearica</i> (L.) Medik.	Mediterranean & large distribution	<i>Suc_bal</i>	VU		VU	VU
<i>Tamarix boveana</i> Bunge	Ibero-Magrebian	<i>Tam_bov</i>			NT	NT
<i>Tamarix dalmatica</i> Baum.	Mediterranean & large distribution	<i>Tam_dal</i>			NT	NT
<i>Teucrium ericephalum</i> Willk. subsp. <i>almeriense</i>	Iberian	<i>Teu_alm</i>		NT	LC	NT
<i>Teucrium balthazaris</i> Sennen	Iberian	<i>Teu_bal</i>	NT	NT	NT	NT
<i>Teucrium charidemi</i> Sandwith	South-east Spain	<i>Teu_cha</i>	NT		NT	NT
<i>Teucrium compactum</i> Clemente ex Lag.	Mediterranean & large distribution	<i>Teu_com</i>	NT		NT	NT

<i>Teucrium carolipau</i> subsp. <i>fontqueri</i> (Sennen) Rivas Mart.	South-east Spain	<i>Teu_fon</i>			NT	NT
<i>Teucrium fragile</i> Boiss.	South-east Spain	<i>Teu_fra</i>	NT	NT	NT	NT
<i>Teucrium freynii</i> Reverchon ex Willk.	Iberian	<i>Teu_fre</i>	NT		NT	NT
<i>Teucrium intricatum</i> Lange	South-east Spain	<i>Teu_int</i>	NT	NT	NT	NT
<i>Teucrium lanigerum</i> Lag.	South-east Spain	<i>Teu_lan</i>	VU		VU	VU
<i>Teucrium pumilum</i> L.	Iberian	<i>Teu_pum</i>				CR <sup>1</sup>
<i>Teucrium turredanum</i> Losa & Rivas Goday	South-east Spain	<i>Teu_tur</i>	EN	VU	VU	VU
<i>Thymus hyemalis</i> subsp. <i>millefloris</i> (Rivera, Flores & Laencina) R. Morales	South-east Spain	<i>Thy_mil</i>	CR	CR	CR	CR
<i>Ulex canescens</i> Lange	South-east Spain	<i>Ule_can</i>	EN	EN	EN	EN
<i>Vella pseudocytisus</i> L. subsp. <i>pseudocytisus</i>	South-east Spain	<i>Vel_pse</i>	EN	EN	EN	EN
<i>Verbascum charidemi</i> Murb.	South-east Spain	<i>Ver_cha</i>	CR	CR	CR	CR
<i>Verbascum prunellii</i> Rodr. Gracia & Valdés Berm.	South-east Spain	<i>Ver_pru</i>	DD	DD	DD	DD
<i>Vicia altissima</i> Desf.	Mediterranean & large distribution	<i>Vic_alt</i>	DD	CR	CR	CR
<i>Wahlenbergia lobeloides</i> subsp. <i>nutabunda</i> (Guss.) Murb.	Mediterranean & large distribution	<i>Wah_nut</i>	EN	VU	EN	EN

<sup>1</sup>Taxon recently discovered in the study area; conservation status taken from published studies

<sup>2</sup>Taxon categorized as Least Concern on several lists and included here with Data Deficient status

TABLE S2 Results of site selection by Marxan from Mendoza et al. (2010), coincidence with the network of natural protected areas of Andalusia (Sites of Community Interest, values of the summed solutions, and biogeographical ascription).

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVE9677	Almería	Isla de Alborán	Yes	1000	Almeriansian
30SWF3276	Almería	Sierra de Gádor	No	1000	Almeriansian
30SWF6385	Almería	Sierra Alhamilla	Yes	1000	Almeriansian
30SWF7765	Almería	Cabo de Gata Monsul	Yes	1000	Almeriansian
30SWG2013	Granada	Hoya de Guadix	No	1000	Almeriansian
30SWG3801	Granada	Sierra de la Sagra	Yes	1000	Almeriansian
30SWG9115	Almería	Sierra Cabrera	Yes	1000	Almeriansian
30SXG0721	Almería	Vera	No	1000	Almeriansian
30SVF5785	Granada	Sierra Nevada Lanjarón	No	1000	Alpujarrean-Gadoresean
30SWF1584	Almería	Sierra de Gádor	Yes	1000	Alpujarrean-Gadoresean
30SVG8762	Granada	Alicún de Ortega	No	1000	Guadician-Bacensean
30SWG1229	Granada	Sierra de Baza	Yes	1000	Guadician-Bacensean
30SVF1568	Granada	Sierra Almirajara	No	1000	Malacitan-Almirajaresean

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVF1783	Granada	Sierra Almijara	Yes	1000	Malacitan- Almijarensian
30SVG3506	Granada	La Malaha	No	1000	Malacitan- Almijarensian
30SVG5829	Granada	Sierra de Huétor	Yes	1000	Malacitan- Almijarensian
30SUH9836	Jaén	Sierra de Andújar	Yes	1000	Marianic- Monchiquensean
30SVF6196	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG6501	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG6906	Granada	Sierra Nevada Río Guarnón	Yes	1000	Nevadensean
30SVG7002	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG7205	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG7413	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG7707	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG7712	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SVG7803	Granada	Sierra Nevada	Yes	1000	Nevadensean
30SWG0010	Almería	Sierra Cabrera	Yes	1000	Nevadensean
30SWG0802	Almería	Sierra Nevada	Yes	1000	Nevadensean
30SWG0803	Almería	Sierra Nevada Almirez	Yes	1000	Nevadensean
30SWG1905	Almería	Sierra Nevada	Yes	1000	Nevadensean
30SWG4525	Almería	Sierra de los Filabres	Yes	1000	Nevadensean

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVF0589	Granada	Sierra Tejeda	Yes	1000	Rondeño
30SVG5675	Jaén	Sierra Mágina	Yes	1000	Subbetic
30SWG0386	Jaén	Sierra de Cazorla	Yes	1000	Subbetic
30SWG1697	Jaén	Sierra de la Cabrilla	Yes	1000	Subbetic
30SWG1896	Jaén	Sierra de la Cabrilla	Yes	1000	Subbetic
30SWH1915	Jaén	Sierra de Cazorla	Yes	1000	Subbetic
30SWH2110	Jaén	Sierra de Segura	Yes	1000	Subbetic
30SWH2713	Jaén	Sierra de Segura	Yes	1000	Subbetic
30SWH3026	Jaén	Sierra de Segura	Yes	1000	Subbetic
30SWH3826	Jaén	Sierra de Segura	Yes	1000	Subbetic
30SWH4009	Granada	Sierra de la Guillimona	Yes	1000	Subbetic
30SWG2760	Granada	Baza	No	999	Guadician- Bacensean
30SVF7299	Granada	Sierra Nevada	Yes	998	Nevadensean
30SVG8263	Granada	Guadix	No	997	Guadician- Bacensean
30SVG6802	Granada	Sierra Nevada	Yes	997	Nevadensean

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SWG0794	Jaén	Sierra de Cazorla	Yes	997	Subbetic
30SVF3479	Granada	Sierra Almijara	Yes	689	Malacitan- Almijaresean
30SWG3876	Granada	Galera	No	679	Guadician- Bacensean
30SWG8474	Almería	Sierra de María	Yes	546	Manchean
30SWH3918	Jaén	Sierra de Segura	Yes	540	Subbetic
30SVG6709	Granada	Sierra Nevada	Yes	532	Nevadensean
30SWG4223	Almería	Sierra de los Filabres	Yes	531	Nevadensean
30SVG6703	Granada	Sierra Nevada	Yes	521	Nevadensean
30SVG5777	Jaén	Sierra Mágina	Yes	518	Subbetic
30SWH3824	Jaén	Sierra de Segura	Yes	518	Subbetic
30SWH4108	Granada	Huéscar	Yes	518	Subbetic
30SVH5643	Jaén	Valdeangosto	Yes	516	Marianic- Monchiquensean
30SWG1486	Granada	Sierra de Castril	Yes	516	Subbetic
30SVG8262	Granada	Alicún de Ortega	No	515	Guadician- Bacensean
30SVG6102	Granada	Sierra Nevada	Yes	514	Nevadensean
30SVF1585	Granada	Sierra	Yes	512	Malacitan-

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
		Almijara			Almijarensian
30SVG7607	Granada	Sierra Nevada	Yes	512	Nevadensean
30SWG1557	Granada	Sierra de Baza	No	511	Guadician- Bacensean
30SUH9349	Jaén	El Panizal	Yes	509	Marianic- Monchiquensean
30SVG6208	Granada	Sierra Nevada	Yes	508	Nevadensean
30SWG4699	Granada	Sierra del Calar de la Puebla	Yes	508	Subbetic
30SWG0595	Jaén	Sierra de Cazorla	Yes	507	Subbetic
30SVF2876	Granada	Sierra Almijara	Yes	506	Malacitan- Almijarensian
30SWF5174	Almería	Almería	No	505	Almeriensian
30SVF5996	Granada	Sierra Nevada	Yes	504	Nevadensean
30SWG1955	Granada	Sierra de Baza	No	502	Guadician- Bacensean
30SVG5882	Jaén	Sierra Mágina	Yes	500	Subbetic
30SVG6131	Granada	Sierra Nevada	Yes	499	Nevadensean
30SVG7601	Granada	Sierra Nevada	Yes	499	Nevadensean
30SWG2091	Granada	Sierra de Castril	Yes	499	Subbetic
30SWG6666	Almería	Sierra de María	Yes	497	Guadician- Bacensean



UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVF2169	Granada	Sierra Almijara	Yes	497	Malacitan- Almijaresean
30SWH3912	Granada	Sierra de la Guillimona	Yes	497	Subbetic
30SWG0025	Granada	Sierra de Baza	Yes	496	Guadician- Bacensean
30SVG5778	Jaén	Sierra Mágina	Yes	495	Subbetic
30SVG7616	Granada	Sierra Nevada	Yes	494	Nevadensean
30SVG5223	Granada	Sierra de Alfacar	Yes	492	Malacitan- Almijaresean
30SVG9708	Almería	Sierra Nevada	Yes	484	Nevadensean
30SVG5377	Jaén	Sierra Mágina	Yes	484	Subbetic
30SWF8376	Almería	Sierra de Cabo de Gata	Yes	483	Almeriensean
30SVG5529	Granada	Cogollos Vega	Yes	481	Subbetic
30SVG6509	Granada	Sierra Nevada	Yes	474	Nevadensean
30SVG7706	Granada	Sierra Nevada	Yes	474	Nevadensean
30SWG2255	Granada	Baza	No	471	Guadician- Bacensean
30SWH3639	Jaén	Sierra de Segura	Yes	465	Subbetic
30SWG1704	Almería	Sierra Nevada	Yes	461	Nevadensean
30SVG5501	Granada	Sierra Nevada	Yes	375	Nevadensean
30SWF1982	Almería	Sierra de Gádor	Yes	362	Alpujarrean- Gadoresean

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVG6900	Granada	Sierra Nevada	Yes	352	Nevadensean
30SVG9051	Granada	Alicún de Ortega	No	350	Guadician- Bacensean
30SVF0286	Granada	Sierra Tejeda	Yes	350	Malacitan- Almijarensian
30SWF4791	Almería	Desierto de Tabernas	Yes	349	Almeriansian
30SWG3976	Granada	Galera	No	349	Guadician- Bacensean
30SWH3034	Jaén	Sierra de Segura	Yes	349	Subbetic
30SWG5718	Almería	Sierra de los Filabres	No	343	Nevadensean
30SUG9712	Granada	Sierra de Loja	Yes	343	Rondeño
30SVG5706	Granada	Sierra Nevada	Yes	340	Malacitan- Almijarensian
30SWG1694	Jaén	Sierra de la Cabrilla	Yes	337	Subbetic
30SVG3305	Granada	La Malaha	No	335	Malacitan- Almijarensian
30SWG9419	Almería	Sierra de Cabrera	No	333	Almeriansian
30SWF1095	Almería	Sierra Nevada	Yes	333	Alpujarrean- Gadorensian
30SVF2470	Granada	Sierra Almijara	Yes	333	Malacitan- Almijarensian
30SXG0413	Almería	Mojácar	No	331	Almeriansian

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVF4799	Granada	Sierra Nevada	Yes	329	Malacitan- Almijaresean
30SWG4601	Almería	Gérgal	Yes	326	Almeriensean
30SWH3900	Granada	Sierra de la Sagra	Yes	325	Subbetic
30SWG0384	Jaén	Sierra de Cazorla	Yes	321	Subbetic
30SVG9921	Granada	Sierra Nevada	No	316	Nevadensean
30SVG4472	Jaén	Sierra Mágina	Yes	313	Subbetic
30SWG0496	Jaén	Sierra de Cazorla	Yes	309	Subbetic
30SWF1880	Almería	Sierra de Gádor	Yes	304	Alpujarrean- Gadoresean
30SWF3875	Almería	Sierra de Gádor	Yes	277	Almeriensean
30SWG8576	Almería	Sierra de María	Yes	275	Manchean
30SVG6510	Granada	Sierra Nevada	Yes	269	Nevadensean
30SXG1835	Almería	Cuevas de Almanzora	Yes	268	Almeriensean
30SWF2360	Almería	Punta del Sabinar	Yes	265	Almeriensean
30SVG7504	Granada	Sierra Nevada	Yes	261	Nevadensean
30SWG5274	Granada	Orce	No	260	Manchean
30SWG5202	Almería	Venta de los yesos	No	257	Almeriensean

UTM	Province	Location	Site of Community Interest	Summed solution	Biogeographical sector
30SVF6397	Granada	Sierra Nevada	Yes	256	Nevadensean
30SWG4001	Almería	Sierra de los Filabres	Yes	255	Almeriensean
30SWG0347	Granada	Guadix	No	254	Guadician- Bacensean
30SWH0900	Jaén	Sierra de Cazorla	Yes	253	Subbetic
30SWG8511	Almería	Yesos de Sorbas	Yes	250	Almeriensean

TABLE S3 Sites selected by Marxan and their coincidence with Sites of Community Interest (SCI), with values of the summed solutions (SSOL), richness (RICH), continuous rarity (C\_R), discontinuous rarity (D\_R) and species present in each solution (SP1–SP12; Table S1).

ID	UTM (BSOL)	Province*	Place name	SCI	SSOL	RICH	C_R	D_ R	SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	SP10	SP11	SP12
1	30SVE9677	AL	Isla de Alborán	Yes	1000	4	2.5000	4	<i>Ana_alb</i>	<i>Dip_sie</i>	<i>Lav_mau</i>	<i>Sen_alb</i>								
2	30SVG8163	GR	Los Collados. Peñón de Alhamedilla	No	1000	1	1.0000	1	<i>Lin_acc</i>											
3	30SVG8660	GR	Norte del Peñón de Alhamedilla	No	1000	4	1.3806	1	<i>Are_arc</i>	<i>Hap_bas</i>	<i>Leo_his</i>	<i>Teu_pum</i>								
4	30SVG9051	GR	Balneario de Alicún de Ortega	No	1000	6	1.5782	1	<i>Cly_eri</i>	<i>Coc_gla</i>	<i>Cyn_coc</i>	<i>Dor_gra</i>	<i>Hap_bas</i>	<i>Lim_ali</i>						
5	30SWF1371	AL	Falda sur de Sierra de Gádor	No	1000	1	1.0000	1	<i>Con_val</i>											
6	30SWF3276	AL	Sierra de Gádor. Vícar	No	1000	6	1.2321	1	<i>Car_myr</i>	<i>Gal_eph</i>	<i>Hyp_rob</i>	<i>Scr_arg</i>	<i>Sid_las</i>	<i>Teu_int</i>						
7	30SWF7767	AL	Cabo de Gata. El Romeral	Yes	1000	2	1.0156	1	<i>And_gra</i>	<i>Hed_are</i>										
8	30SWF9086	AL	Sierra del Cabo de Gata. Rellana de San Pedro	Yes	1000	2	1.0133	1	<i>Cen_sax</i>	<i>Cha_gra</i>										
9	30SWG3876	GR	Galera. Barranco del Agua	No	1000	7	1.5140	1	<i>Car_foe</i>	<i>Cen_tri</i>	<i>Gyp_tom</i>	<i>Lim_maj</i>	<i>Mic_cor</i>	<i>Res_suf</i>	<i>Sen_aur</i>					

10	30SWG9091	AL	La Pinosa	Yes	1000	1	1.0000	1	<i>Neo_tor</i>											
11	30SXG0629	AL	Cuevas de Almanzora. La Sierrecica	No	1000	7	1.2096	1	<i>Com_afr</i>	<i>Fil_des</i>	<i>Fil_mar</i>	<i>Ifl_spi</i>	<i>Lin_nig</i>	<i>Sis_run</i>						
12	30SXG1139	AL	Pulpí. La Fuente	No	1000	1	1.0000	1	<i>Ach_san</i>											
13	30SWF2660	AL	Punta Entinas	Yes	994	12	1.6105	2	<i>Cas_tub</i>	<i>Cyn_coc</i>	<i>Gas_nit</i>	<i>Ifl_spi</i>	<i>Jun_tur</i>	<i>Lin_ped</i>	<i>Loe_bae</i>	<i>Ono_tal</i>	<i>Oro_olb</i>	<i>Ros_sal</i>	<i>Scr_fru</i>	<i>Sen_fla</i>
14	30SVG8850	GR	Pedro Martínez. Mencal. La Pilica	No	882	3	0.9333	2	<i>Ast_gut</i>	<i>Ast_oxy</i>	<i>Cam_mon</i>									
15	30SWF8878	AL	Cabo de Gata. La Polacra	Yes	733	2	0.6000	1	<i>Art_gal</i>	<i>Nar_gad</i>										
16	30SWG3566	GR	Cúllar-Baza. Arroyo del Margen	No	697	7	0.8406	1	<i>Car_foe</i>	<i>Gyp_tom</i>	<i>Lim_maj</i>	<i>Lim_min</i>	<i>Nep_his</i>	<i>Sis_cav</i>	<i>Son_cra</i>					
17	30SWF4175	AL	Aguadulce. Barranco del Palmer	Yes	687	5	0.7202	1	<i>Hyp_rob</i>	<i>Sen_fla</i>	<i>Son_pus</i>	<i>Teu_fra</i>	<i>Teu_int</i>							
18	30SWF7465	AL	Cabo de Gata. Barranco de la Parra	Yes	643	6	0.2570		<i>Ant_cha</i>	<i>Dia_cha</i>	<i>Sid_ost</i>	<i>Teu_cha</i>	<i>Vel_pse</i>	<i>Ver_pru</i>						
19	30SWG7192	AL	Sierra del Oso	Yes	618	6	0.5815		<i>Cam_fas</i>	<i>Cha_exi</i>	<i>Cte_gyp</i>	<i>Gui_arv</i>	<i>Lim_min</i>	<i>Puc_cae</i>						
20	30SWF3277	AL	Sierra de Gádor. El Pantano	No	611	4	0.7024	1	<i>Cen_kun</i>	<i>Hyp_rob</i>	<i>Lav_obl</i>	<i>Scr_arg</i>								
21	30SWF4989	AL	Desierto de Tabernas.	Yes	596	7	0.7092	1	<i>Cis_phe</i>	<i>Euz_bou</i>	<i>Lyc_fug</i>	<i>May_eur</i>	<i>Sal_pap</i>	<i>Sid_las</i>	<i>Vic_alt</i>					

Rioja																				
22	30SWG8990	AL	La Pinoso	Yes	571	2	0.6000	1	<i>Ast_cas</i>	<i>Lav_tri</i>										
23	30SXG0414	AL	Garrucha. Playa de Garrucha	No	514	2	0.5270	1	<i>Lav_dav</i>	<i>Sil_ram</i>										
24	30SWG2013	AL	Abla. Las Torrecillas	No	508	1	0.5000	1	<i>Car_val</i>											
25	30SVG4307	GR	Alhendín. Arroyo de Las Andas. La Malahá	No	505	1	0.5000	1	<i>Cuc_bac</i>											
26	30SVF2393	GR	Cerca de Arenas del Rey. Yesos de la Malahá	No	498	2	0.5313	1	<i>Cyn_tou</i>	<i>Ono_cra</i>										
27	30SXG0520	AL	Vera	No	495	4	0.5809	1	<i>Cre_cre</i>	<i>Fil_mar</i>	<i>Oro_ram</i>	<i>Sid_iba</i>								
28	30SVF9873	AL	Río Adra. Rambla de la Casería	No	485	1	0.5000	1	<i>Cyt_mal</i>											
29	30SWF5197	AL	Desierto de Tabernas	Yes	475	11	0.6848	1	<i>Ast_pyg</i>	<i>Car_eur</i>	<i>Cen_nic</i>	<i>Cis_phe</i>	<i>Euz_bou</i>	<i>Koe_lin</i>	<i>Lim_tab</i>	<i>Lin_oli</i>	<i>Mor_foe</i>	<i>Ros_eri</i>	<i>Sal_pap</i>	
30	30SWF5294	AL	S <sup>a</sup> Alhamilla. El Puntal	Yes	469	2	0.3500	1	<i>Sal_mas</i>	<i>Sid_alh</i>										
31	30SWF7565	AL	Cabo de Gata. Mónsul	Yes	454	7	0.4843	1	<i>Amm_pal</i>	<i>Car_eur</i>	<i>Dia_cha</i>	<i>Ifl_spi</i>	<i>Mar_nan</i>	<i>Sil_ram</i>	<i>Teu_cha</i>					
32	30SWG9553	AL	Cabezo de la Jara. El Cargador	No	431	2	0.5115	1	<i>Eup_bri</i>	<i>Sid_iba</i>										
33	30SXG1639	AL	Pulpí. Pilar de Jaravía	No	401	4	0.4489	1	<i>San_vis</i>	<i>Sen_fla</i>	<i>Tam_bov</i>	<i>Tam_dal</i>								

34	30SWG9506	AL	Sierra de Cabrera. El Dondo	Yes	395	3	0.3404		<i>Lon_bif</i>	<i>Nar_tor</i>	<i>Wah_nut</i>										
35	30SWG9314	AL	Los Gallardos. Río Aguas	No	338	3	0.3815	1	<i>Cer_het</i>	<i>Cha_car</i>	<i>Gal_eph</i>										
36	30SWG3476	GR	Galera. Cortijo del Cura	No	330	4	0.5304		<i>Cha_rey</i>	<i>Eph_neb</i>	<i>Res_suf</i>	<i>Son_cra</i>									
37	30SXG2137	AL	Pulpí. Los Cocedores	No	308	2	0.5270	1	<i>Hel_mot</i>	<i>Sil_ram</i>											
38	30SWG9932	AL	Sierra de Almagro. Alto de los Alamicos	Yes	304	12	0.4903	1	<i>Ast_lon</i>	<i>Dor_gra</i>	<i>Her_alm</i>	<i>Ifl_spi</i>	<i>Lin_ben</i>	<i>Sal_pap</i>	<i>San_anc</i>	<i>San_vis</i>	<i>Sid_iba</i>	<i>Sil_ads</i>	<i>Teu_alm</i>	<i>Teu_bal</i>	
39	30SVG9920	GR	Hoya de Guadix	No	283	1	0.2500	1	<i>Kra_cer</i>												
40	30SXG1438	AL	Pulpí. Sierra del Aguilón	Yes	273	9	0.3727		<i>Che_int</i>	<i>Gal_eph</i>	<i>Hap_lin</i>	<i>Hap_ros</i>	<i>San_vis</i>	<i>Sid_iba</i>	<i>Suc_bal</i>	<i>Teu_fon</i>	<i>Teu_fre</i>				
41	30SWG4406	AL	Desierto de Tabernas. Gérgal	Yes	256	2	0.2649	1	<i>Ast_edu</i>	<i>Ast_war</i>											
42	30SVG8089	JA	Sierra de las Cabras	No	247	1	0.3333	1	<i>Sil_alm</i>												
43	30SWG2458	GR	Hoya de Baza. Cortijo de las Monjas	No	247	4	0.5370	1	<i>Car_foe</i>	<i>Gyp_tom</i>	<i>Mic_cor</i>	<i>Puc_fas</i>									
44	30SVF2489	GR	La Malahá. Barranco Zarzalón	Yes	194	1	0.2000		<i>Nar_cua</i>												
45	30SWG2256	GR	Hoya de Baza.	No	188	3	0.3222		<i>Cen_dra</i>	<i>Dor_gra</i>	<i>Son_mar</i>										



			Campo de Javalcón													
46	30SWF9791	AL	Carboneras. Rellana El Hondo	Yes	159	2	0.1787	<i>Cen_bar</i>	<i>Teu_cha</i>							
47	30SXG1532	AL	Pozo del Esparto	Yes	158	7	0.4256	<i>Cyn_coc</i>	<i>Fil_mar</i>	<i>Hal_str</i>	<i>Lin_nig</i>	<i>Pan_mar</i>	<i>Sil_ads</i>	<i>Teu_lan</i>		
48	30SVG3507	GR	La Malahá	Yes	154	2	0.1222	<i>Lim_sub</i>	<i>Ono_cra</i>							
49	30SWG1657	GR	Hoya de Baza. Horro de la Virgen	No	150	1	0.1429	<i>Cen_saf</i>								
50	30SXG1937	AL	San Juan de los Terreros. Cerro Cogón	No	126	1	0.1250	<i>Art_luc</i>								
51	30SWG7391	AL	Sierra del Oso	Yes	118	2	0.1232	<i>Gui_arv</i>	<i>Jun_thu</i>							
52	30SWF6275	AL	Cabo de Gata. Torregarcía	Yes	112	6	0.3494	<i>And_gra</i>	<i>Cen_mar</i>	<i>Cis_phe</i>	<i>Cyn_coc</i>	<i>Gas_nit</i>	<i>Ifl_spi</i>			
53	30SXG0004	AL	Sierra de Cabrera. El Baladrar	Yes	103	3	0.1679	<i>Lim_est</i>	<i>Lin_ben</i>	<i>Teu_lan</i>						
54	30SWG9215	AL	Sierra de Cabrera. Cerro Mojón	Yes	102	4	0.1876	<i>Gal_eph</i>	<i>Nar_tor</i>	<i>Sid_iba</i>	<i>Ule_can</i>					
55	30SWF7091	AL	Níjar. Risco del Águila	Yes	90	2	0.1161	<i>Teu_alm</i>	<i>Teu_com</i>							
56	30SWG8819	AL	Sierra de Cabrera. Los Carriones. Río Antas	No	76	1	0.0833	<i>Cyt_cat</i>								

57	30SWF4896	AL	Desierto de Tabernas. Las Salinas	Yes	71	8	0.2704	<i>Euz_bou</i>	<i>For_ten</i>	<i>Her_alm</i>	<i>Mor_foe</i>	<i>Pte_dic</i>	<i>Sal_pap</i>	<i>Sen_aur</i>	<i>Sil_ads</i>
58	30SVG9277	JA	Picos del Guadiana Menor	Yes	49	1	0.0588	<i>Lim_que</i>							
59	30SWG5275	GR	Venta Micena. Cañada de Fuente Nueva	No	47	1	0.0455	<i>Ver_cha</i>							
60	30SWG8509	AL	Sierra de Cabrera. Barranco Salado	Yes	38	6	0.0997	<i>Cha_gra</i>	<i>Cor_his</i>	<i>Hel_aly</i>	<i>Nar_tor</i>	<i>San_vis</i>	<i>Thy_mil</i>	<i>Teu_tur</i>	
61	30SVG9331	GR	Hoya de Guadix	No	36	1	0.0400	<i>Bor_apt</i>							
62	30SWG2558	GR	Hoya de Baza. Los Majales de Monzón	No	26	3	0.2262	<i>Coc_gla</i>	<i>Lim_maj</i>	<i>Pla_cra</i>					

\*AL, Almería; GR, Granada; JA, Jaén