

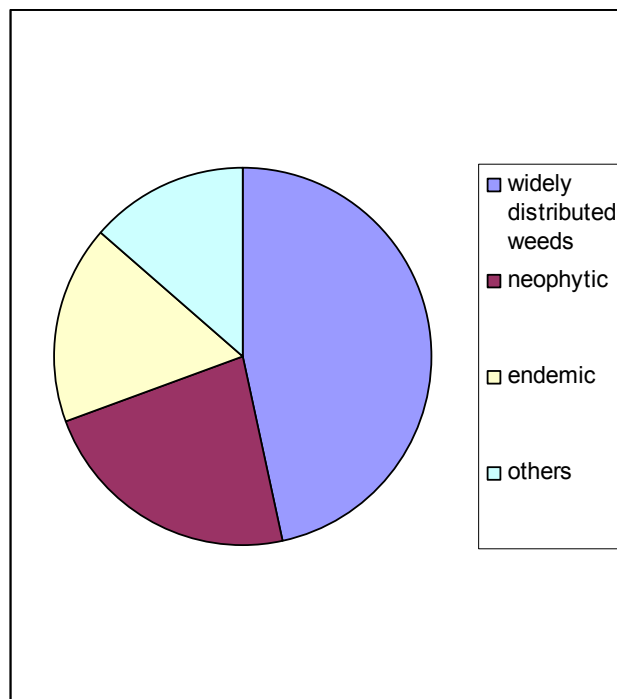
## Some contributions to the spontaneous flora of roadsides on La Palma, Canary Islands

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Roadsides are the most important anthropogenous corridors in the landscape. Usually they show high  $\alpha$ - and  $\beta$ -diversity, due to very different habitats.

Our preliminary survey was carried out in April 2000 and showed a total of 161 species. 75 of them are widely distributed weeds, 37 taxa are neophytic at least, 27 are endemic, 22 are not to classify.



27 endemic species are to be found, showing that many of them are preadapted to disturbances. Alien species are on La Palma of high importance in the opposite to Mallorca (BRANDES 1998). Some of them spread along the roads, even connecting the barrancos. Examples are *Ageratina adenophora*, *Amaranthus viridis*, *Aster squamatus*, *Bidens pilosa* (BRANDES 2001), *Galinsoga parviflora*, *Lantana camara*, *Lepidium bonariense*, *Nicotiana glauca*, *Pennisetum setaceum* (BRANDES & OPPERMANN 1995), or *Tagetes minuta*.

The nomenclature of the preliminary checklist follows ACEBES GINOVÉS et al. (2001), species not mentioned for La Palma are indicated by an asterisk:

*Achyranthes aspera*  
*Adenocarpus viscosus*  
*Aeonium* cf. *dauidbramwellii*  
*Aeonium spathulatum*  
*Agave amaericana*  
*Ageratina adenophora*  
*Anagallis arvensis*  
*Antirrhinum majus*  
*Amaranthus retroflexus*  
*Amaranthus viridis*  
*Arabis caucasica*  
*Argyranthemum frutescens*  
*Aristida adscensionis* ssp. *coerulescens*  
*Artemisia thuscula*  
*Arundo donax*  
*Asclepias curassavica*  
*Aster squamatus*  
*Avena barbata*

*Bidens aurea*  
*Bidens pilosa*  
*Bituminaria bituminosa*  
*Brachypodium distachyon*  
*Brachypodium sylvaticum*  
*Briza minor*  
*Bromus willdenowii*  
*Bystopogon organifolius*

*Calendula arvensis*  
*Calendula officinalis*  
*Campanula erinus*  
*Capsella bursa-pastoris*  
*Carduus pycnocephalus*  
*Carduus tenuiflorus*  
*Carthamnus tinctorius*\*  
*Catharantus roseus*\*  
*Cenchrus ciliaris*  
*Centaurea melitensis*  
*Centranthus ruber*  
*Chamaecytisus proliferus*  
*Cheilanthes marantae*  
*Chenopodium album*  
*Chenopodium ambrosioides*  
*Chenopodium murale*  
*Chrysanthemum coronarium*

*Cistus monspeliensis*  
*Convolvulus althaeoides*  
*Convolvulus floridus*  
*Convolvulus siculus*  
*Conyza bonariensis*  
*Coronopus didymus*  
*Cotula australis*  
*Cymbalaria muralis*  
*Cynodon dactylon*

*Datura innoxia*  
*Davallia canariensis*  
*Descurainia gilva*  
*Descurainia millefolia*  
*Digitaria cf. ciliaris*

*Ebingera elegans*  
*Echium brevirame*  
*Echium plantaginum*  
*Eleusine indica*  
*Emex spinosa*  
*Eragrostis barrelieri*  
*Erica arborea*  
*Erigeron karvinskianus*  
*Erodium cf. malacoides*  
*Erodium moschatum*  
*Erodium spec.*  
*Erysimum scoparium*  
*Eschscholtzia californica*  
*Euphorbia peplus*  
*Euphorbia obtusifolia*  
*Euphorbia terracina*

*Fagonia cretica*  
*Filago spec.*  
*Ficus carica*  
*Foeniculum vulgare*  
*Forsskaolea angustifolia*

*Galactites tomentosa*  
*Galinsoga quadriradiata\**  
*Galinsoga parviflora*  
*Galium aparine*  
*Geranium dissectum*  
*Geranium robertianum*  
*Glaucium flavum*  
*Gnaphalium luteo-album*  
*Greenovia aurea*

*Hirschfeldia incana*

*Hyparrhenia hirta*  
*Hordeum murium* s.l.

*Ipomea acuminata*\*

*Kleinia neirifolia*

*Lactuca serriola*  
*Lantana camara*  
*Lavandula canariensis*  
*Lavatera arborea*  
*Lavatera cretica*  
*Lepidium bonariense*  
*Lobularia canariensis* s.l.  
*Lolium multiflorum*  
*Lotus spec.*  
*Lupinus cf. angustifolius*\*  
*Lycopersicon esculentum*

*Malva parviflora*  
*Mercurialis annua*  
*Micromeria herpyllimorpha*  
*Mirabilis jalapa*

*Nicotiana glauca*

*Oenothera indecora*  
*Oenothera rosea*  
*Opuntia ficus-babbarica*  
*Ornithopus compressus*  
*Oxalis corniculata*  
*Oxalis pes-caprae*

*Papaver rhoeas*  
*Papaver somniferum* ssp. *somniferum*\*  
*Parietaria judaica*  
*Pennisetum setaceum*  
*Pericallis papyracea*  
*Periploca levigata*  
*Petroselinum crispum*  
*Phagnalon umbelliforme*  
*Piptatherum miliaceum*  
*Plantago amplexicaulis*  
*Plantago major*  
*Poa annua*  
*Polycarpea cf. divaricata*  
*Polycarpon tetraphyllum*  
*Polygonum aviculare*  
*Prunella vulgaris*  
*Pteridium aquilinum*

*Raphanus raphanistrum*  
*Reseda luteola*  
*Ricinus communis*  
*Rubus ulmifolius*  
*Rumex lunaria*

*Salvia canariensis*  
*Salvia leucantha*  
*Scandix pecten-veneris*  
*Schizogyne sericea*  
*Setaria adhaerens*  
*Sherardia arvensis*  
*Sida rhombifolia*  
*Silene vulgaris*  
*Silybum marianum*  
*Sinapis alba*  
*Sisymbrium erysimoides*  
*Sisymbrium officinale*  
*Solanum nigrum*  
*Sonchus asper*  
*Sonchus oleraceus*  
*Sonchus palmensis*

*Tagetes minuta*  
*Tagetes patula*  
*Tolpis* cf. *barbata*  
*Torilis arvensis* ssp. *neglecta*  
*Trifolium campestre*  
*Tropaeolum majus*

*Viburnum rigidum*  
*Vitis vinifera*

*Wahlenbergia lobelioides*

#### Literature :

ACEBES GINOVÉS, J. R. et al. (2001): División Spermatophyta. – In: Izquierdo, J. et al. (eds.): Lista de especies silvestres de Canarias. La Laguna, p. 100-140.

BRANDES, D. (1998): Flora und Vegetation der Straßenränder Mallorcas. – In: D. BRANDES (ed.): Vegetationsökologie von Habitatinseln und linearen Strukturen. – Braunschweig, p. 275-293 (Braunschweiger Geobotanische Arbeiten, 5.)

BRANDES, D. (2001): *Bidens pilosa* und ihre Einbürgerungschancen in den Ländern der Europäischen Union. – In: D. BRANDES (ed.): Adventivpflanzen. – Braunschweig, p. 59-71. (Braunschweiger Geobotanische Arbeiten, 8.)

BRANDES, D. & F. OPPERMANN (1995): Straßen, Kanäle und Bahnanlagen als lineare Strukturen in der Landschaft sowie deren Bedeutung für die Vegetation. – Berichte der Reinhold-Tüxen-Gesellschaft, 7: 89-110.

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