Index of vegetation classes and results on the distribution of invasive plants from the spatial database of canopy plant densities over the National Park on Santa Cruz Island, Galapagos

Supplement to **"**Mapping the extent and spread of multiple plant invasions can help prioritise management in Galapagos National Park" published in NeoBiota, 2014

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Table 1 Index of 26 classes we mapped, listing the plant species included in each class

	Class name	Species (†)	Local common name/s
	arid	Mixed species native to the dry lowlands: Particularly *Bursera graveolens* (Na), *Cordia lutea* (Na), *Opuntia echios* (En), *Erythrina velutina* (Na), but could also include *Alternanthera halimifolia* (Na), *Cordia leucophlyctis* (En) and many others.	palo santo, muyuyo, tuna gigante, flame tree / caco, monte colorado, cordia
‡	**avocado**	*Persea americana* (In)	avocado / aguacate
	bare_ground	Exposed soil or rock	
	bog	Wet depressions containing a mixture of species (presumed native)	
	bracken	*Pteridium arachnoideum* (Na)	bracken / chontillo
‡	**cedrela**	*Cedrela odorata* (In)	Cuban cedar / cedrela / cedro cubano
‡	**cinchona**	*Cinchona pubescens* (In)	red quinine / cascarilla / cinchona
	developed	Infrastructure such as buildings	
§	**eleph**	*Pennisetum purpureum* (In)	elephant grass / pasto elefante
§	**grass**	Introduced grasses including *Panicum maximum, Urochloa decumbens* but possibly also containing cover classes mapped separately; eleph, melinus, urochloa	
‡	**guava**	*Psidium guajava* (In)	guava / guayaba
	guayabillo	*Psidium galapageium* (En)	guayabillo
‡	**laurel**	*Cordia alliodora* (In)	laurel
	manzanillo	*Hippomane mancinella* (Na)	poison apple / manzanillo
	matazarno	*Piscidia carthagenensis* (Na)	matazarno
§	**melinus**	*Melinis minutiflora* (In)	molasses grass / pasto miel
	miconia	*Miconia robinsoniana* (En)	miconia / cacaotillo
‡	**mora**	*Rubus niveus* (In)	mora / blackberry / hill raspberry
	moranativa	*Caesalpinia bonduc* (NaQ)	mora nativa
	pomarosa	*Syzygium jambos* (In)	rose-apple / pomarosa
	rodilla	*Clerodendrum molle* (Na)	rodilla de caballo
‡	**sauco**	*Cestrum auriculatum* (In)	sauco
	scalesia	*Scalesia pedunculata* (En)	lechoso
	transition	Mixed species native to the drier (transition) forest surrounding the humid highlands, particularly *Tournefortia rufo-sericea* (En), *Pisonia floribunda* (En), *Croton scouleri* (En), *Chiococca alba* (Na), but also containing other species mapped separately; rodilla, scalesia, guayabillo, matazarno, unia	palito negro, pega pega, chala, chiococca / espuela de gallo
	unia	*Zanthoxylum fagara* (Na)	cat's claw / uña de gato
§	**urochloa**	*Urochloa mutica* (In)	

† Na = Native, En = Endemic, In = Introduced, NaQ = thought to be introduced, but possibly native

‡ The 7 individual invasive species that are reported in our results

§ Grasses reported in our results, combined

Table 2 Distribution of invasive plant species in the canopy vegetation of the humid highlands of the Galapagos National Park, Santa Cruz Island, as indicated by their approximate total area of canopy coverage and the total area occupied (area in which it was mapped in the canopy, in any density category). The percentage canopy coverage of each species in each historical vegetation type (HVT) is also included, as is the percentage of area occupied by each species in each density category.

Species	Approx. total canopy cover (ha)	Percentage of the canopy cover that is in each HVT				Total area occupied (ha)	Percentage area occupied in each density category (ha)				Means of Arrival in study area
		Scalesia forest	Mixed Forest	Dry Forest	Fern/Herbland & Miconia		Dominant	Codominant	Secondary	Scattered	
Cedrela odorata	933	4	85	10		4619	16	3	12	69	Accidental
Cestrum auriculatum	585	51	35	13		2520	2	35	44	19	Accidental
Cinchona pubescens	336	3			97	1541	9	21	20	50	Accidental
Cordia alliodora	13		100			53	12	8	72	9	Accidental
Persea americana	67	100				96	69	20	7	4	Planted
Psidium guajava	838	20	36	34	10	3754	6	28	28	38	Accidental
Rubus niveus	204	68			32	877	12	15	36	38	Accidental
Grasses †	173	44	20	2	33	283	53	31	14	2	Planted ‡

† Grasses include *Melinis minutiflora* and *Urochloa decumbens* (in the HVT Fern/Herbland & Miconia), and *Pennisetum purpureum* (in other HVTs)

‡ *P. purpureum* only