

Savanna of Belize

The Lowland Savanna



Zoë Goodwin, Sam Bridgewater & David Harris

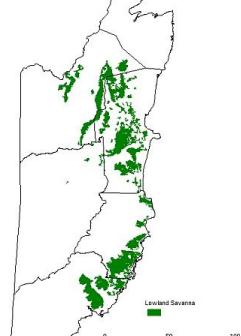
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Photos by Z. A. Goodwin, S. Bridgewater & D. J. Harris. Lowland savannas occupy almost 10% of Belize and provide the main habitat for the **Caribbean Pine** (*Pinus caribaea*, 1-3), an important tree for timber & as nesting sites for the endangered Yellow-headed parrot (*Amazona oratrix*), which also rely on **Palmetto** (*Acoelorrhaphe wrightii*, 14-16) seeds for food.

Other conspicuous species include the **Craboo** (*Byrsinima crassifolia*, 4-6), a very common shrub in the savanna & one that is cultivated throughout Belize for its fruit. **Yaha** or the **Sandpaper Tree** (*Curatella americana*, 7-9) is very common in drier areas of savanna; the rough leaves are traditionally used as sandpaper. **Calabash** (*Crescentia cujete*, 10-13) is a common small tree in open savanna & wetland margins; the large fruit can be hollowed out and used for bowls. **Oak** (*Quercus oleoides*, 17-20) acorns are an important food source for many birds & animals.



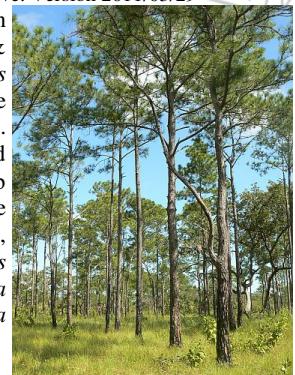
Open savanna



Open savanna is often a poorly-drained grassland with pine, oak, palmetto and craboo scattered in little shrub islands. The herb layer is dominated by grasses, sedges, seasonal herbs such as *Polygala* spp. (49-50), moisture-loving species such as *Xyris* spp. (76 & 77) and small carnivorous herbs such as *Utricularia* spp. (51, 68 & 69) & *Drosera capillaris* (88).



Oak woodland



Pine woodland

Oak woodland is found in areas of good drainage & has a dense canopy of Oak, *Quercus oleoides*, often with a thick understory of shrubs such as *Calliandra houstoniana* (84), *Russelia sarmentosa* (85) & *Miconia albicans* (35). Forest species such as *Tabernaemontana alba* (32) & *Hampea trilobata* (31) often occur here. Under the thick canopy the herb layer tends to be sparse with a few grasses and a thick leaf litter layer. Termite nests are common.



Palmetto thicket

Palmetto thickets are dense stands of palmetto found in poorly drained areas with water-filled potholes and raised tussocks. Many shrubs that occur here include *Parathesis cubana* (82), *Acmella filipes* var. *cayensis* (78), *Hibiscus costatus* (44) & *Mimosa* spp. (46-47).

Wetlands include *Eleocharis* or *Cladium* dominated marshes and lagoon systems, species include *Sagittaria lancifolia* (21) & Water Lillies (*Nymphaea ampla*, 34).



Savannas and wetlands are important for birds

Seasonally waterlogged savanna with shrubs & trees occurs in areas that are flooded for many weeks at a time during wet season. Common shrubs include Calabash, *Camareria latifolia* (28), *Dalbergia glabra* (26), *Bonellia macrocarpa* (81 & 89) & *Haematoxylum campechianum* (Logwood, 67). This habitat often occurs as a fringe between savanna and wetlands.

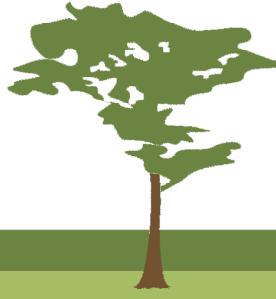


Seasonally waterlogged savanna with shrubs & trees

For further information please visit:

www.eeo.ed.ac.uk/sea-belize

This guide has been produced as part of Darwin Initiative Project 17-022 Conservation of the Lowland Savannas of Belize



Fire



Gravel extraction

Threatened by a combination of human pressures, this ecosystem remains under-valued and under-represented within Belize's extensive protected area system. Threats include rubbish dumping, manmade fires & clearance for agriculture, aquaculture, roadbuilding & settlement. Erosion can also be a problem when savanna is disturbed.



Severe erosion

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Common Woody Plants



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1 *Pinus caribaea*
PINACEAE2 *Pinus caribaea*
PINACEAE3 *Pinus caribaea*
PINACEAE4 *Byrsonima crassifolia*
MALPIGHIACEAE5 *Byrsonima crassifolia*
MALPIGHIACEAE6 *Byrsonima crassifolia*
MALPIGHIACEAE7 *Curatella americana*
DILLENIACEAE8 *Curatella americana*
DILLENIACEAE9 *Curatella americana*
DILLENIACEAE10 *Crescentia cujete*
BIGNONIACEAE11 *Crescentia cujete*
BIGNONIACEAE12 *Crescentia cujete*
BIGNONIACEAE13 *Crescentia cujete*
BIGNONIACEAE14 *Acoelorraphe wrightii*
ARECACEAE15 *Acoelorraphe wrightii*
ARECACEAE16 *Acoelorraphe wrightii*
ARECACEAE17 *Quercus oleoides*
FAGACEAE18 *Quercus oleoides*
FAGACEAE19 *Quercus oleoides*
FAGACEAE20 *Quercus oleoides*
FAGACEAE

Savanna of Belize White Flowers



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21 *Sagittaria lancifolia*
ALISMATACEAE



22 *Evolvulus sericeus*
CONVOLVULACEAE



23 *Merremia aturensis*
CONVOLVULACEAE



24 *Dalechampia schippii*
EUPHORBIACEAE



25 *Rhynchospora nervosa*
CYPERACEAE



26 *Dalbergia glabra*
FABACEAE



27 *Sauvagesia erecta*
OCHNACEAE



28 *Camareria latifolia*
APOCYNACEAE



29 *Sida linifolia*
MALVACEAE



30 *Rhabdadenia biflora*
APOCYNACEAE



31 *Hampea trilobata*
MALVACEAE



32 *Tabernaemontana alba*
APOCYNACEAE



33 *Cipura spp.*
IRIDACEAE



34 *Nymphaea ampla*
NYMPHACEAE



35 *Miconia albicans*
MELASTOMATACEAE



36 *Buchnera pusilla*
PLANTAGINACEAE



37 *Citharexylum caudatum*
VERBENACEAE



38 *Metastelma spp.*
APOCYNACEAE



39 *Coutoubea spicata*
GENTIANACEAE



40 *Pithecellobium lanceolatum*
FABACEAE

Savanna of Belize Pink-Purple-Blue Flowers

4



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41 *Schultesia guianensis*
GENTIANACEAE



42 *Schultesia brachyptera*
GENTIANACEAE



43 *Diodella apiculata*
Rubiaceae



44 *Hibiscus costatus*
MALVACEAE



45 *Marsypianthes chamaedrys*
LAMIACEAE



46 *Mimosa spp.*
FABACEAE



47 *Mimosa spp.*
FABACEAE



48 *Agalinis harperi*
OROBANCHACEAE



49 *Polygala longicaulis*
POLYGALACEAE



50 *Polygala adenophora*
POLYGALACEAE



51 *Utricularia spp.*
LENTIBULARIACEAE



52 *Angelonia ciliaris*
PLANTAGINACEAE



53 *Bletia purpurea*
ORCHIDACEAE



54 *Vigna linearis*
FABACEAE



55 *Desmodium barbatum*
FABACEAE



56 *Clitoria guianensis*
FABACEAE



57 *Alophia silvestris*
IRIDACEAE



58 *Passiflora urbaniana*
PASSIFLORACEAE



59 *Melochia spicata*
MALVACEAE



60 *Ageratum radicanum*
ASTERACEAE

Savanna of Belize Yellow Flowers



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61 *Cochlospermum vitifolium*
BIXACEAE



62 *Turnera* spp.
PASSIFLORACEAE



63 *Oxalis frutescens*
OXALIDACEAE



64 *Hypericum terraefirmae*
HYPERICACEAE



65 *Davilla kunthii*
DILLENIACEAE



66 *Chamaecrista* spp.
FABACEAE



67 *Hamaetoxylum campechianum*
FABACEAE



68 *Utricularia* spp.
LENTIBULARIACEAE



69 *Utricularia* spp.
LENTIBULARIACEAE



70 *Stylosanthes* spp.
FABACEAE



71 *Zornia reticulata*
FABACEAE



72 *Hypoxis humilis*
HYPOXIDACEAE



73 *Curculigo scorzonerifolia*
HYPOXIDACEAE



74 *Mandevilla subsagittata*
APOCYNACEAE



75 *Pentalinon andrieuxii*
APOCYNACEAE



76 *Xyris* spp.
XYRIDACEAE



77 *Xyris* spp.
XYRIDACEAE



78 *Acmella filipes* var. *cayensis*
ASTERACEAE



79 *Calea longipedicellata*
ASTERACEAE



80 *Acacia* spp.
FABACEAE

Savanna of Belize Red-Orange Flowers & Fruit

6

DARWIN
INITIATIVE

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81 *Bonellia macrocarpa*
THEOPHRASTACEAE



82 *Parathesis cubana*
MYRSINACEAE



83 *Macroptilium gracile*
FABACEAE



84 *Calliandra houstoniana*
FABACEAE



85 *Russelia sarmentosa*
PLANTAGINACEAE



86 *Helicteres guazumifolia*
MALVACEAE



87 *Triumfetta speciosa*
MALVACEAE



88 *Drosera capillaris*
DROSERACEAE



89 *Bonellia macrocarpa*
THEOPHRASTACEAE



90 *Cochlospermum vitifolium*
BIXACEAE



91 *Crescentia cujete*
BIGNONIACEAE



92 *Davilla kunthii*
DILLENIACEAE



93 *Dioscorea matagalensis*
DIOSCOREACEAE



94 *Dodonea viscosa*
SAPINDACEAE



95 *Hemiangium excelsum*
CELASTRACEAE



96 *Helicteres guazumifolia*
MALVACEAE



97 *Mimosa bahamensis*
FABACEAE



98 *Calliandra houstoniana*
FABACEAE



99 *Cojoba graciliflora*
FABACEAE



100 *Pithecellobium lanceolatum*
FABACEAE