



Invasive plants in Bosnia and Herzegovina forests and urban landscapes

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Official name: Bosnia and Herzegovina (B&H)

Capital city: Sarajevo

Population: 3.531.159 (2013)

Official languages: Serbian/Croatian/Bosnian

HEIs: 8 public + 36 private

Currency: BAM (KM) (1 € = 1,95583 BAM)

Internet domain: **.ba**

International Dial code: **+387**

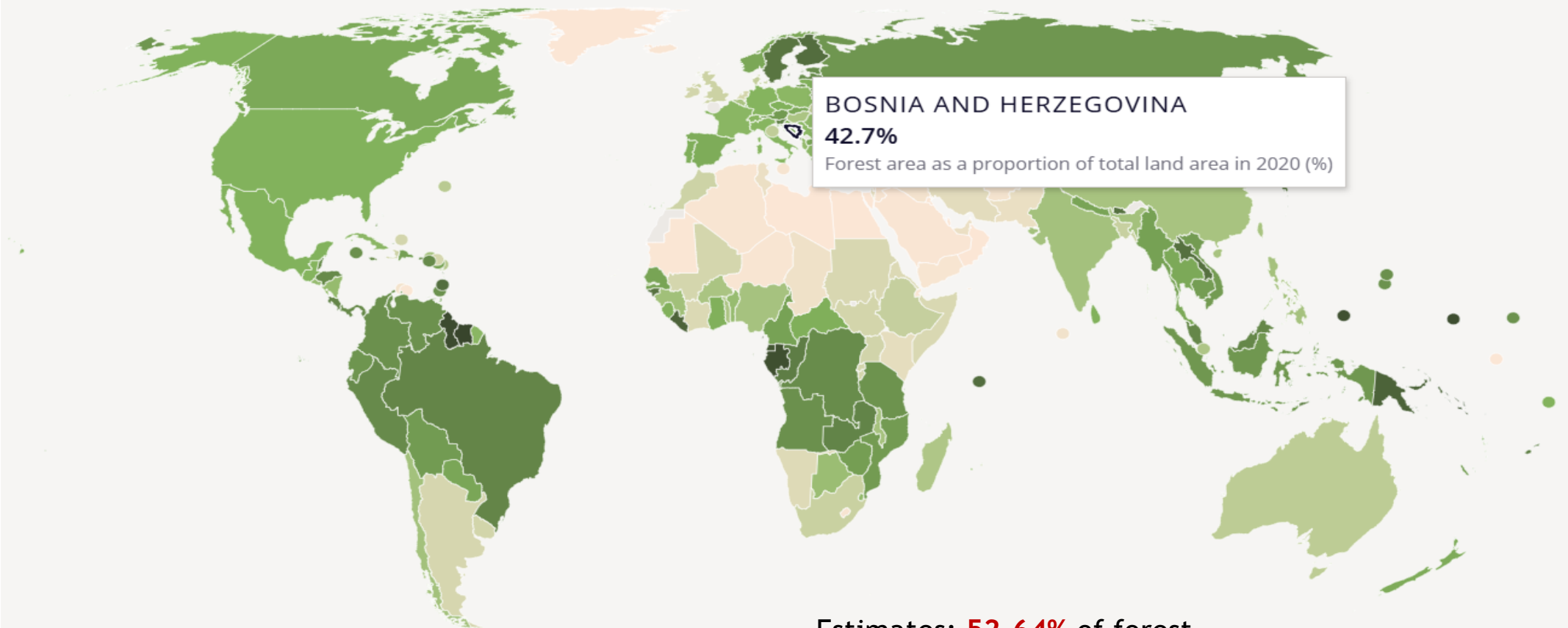
Famous by: Winter Olympic Games 1984, EYOF 2019, Nobelist, Movie Awards, Great Cuisine, UNESCO sites, Drinking coffee (10th in the world), **FOREST.**



Forest cover is unequally distributed across the globe

Forest area as a proportion of total land area in 2020 (%)

0% 100%



Estimates: **52-64%** of forest
area in B&H



Republic of Srpska



Federation of Bosnia and Herzegovina



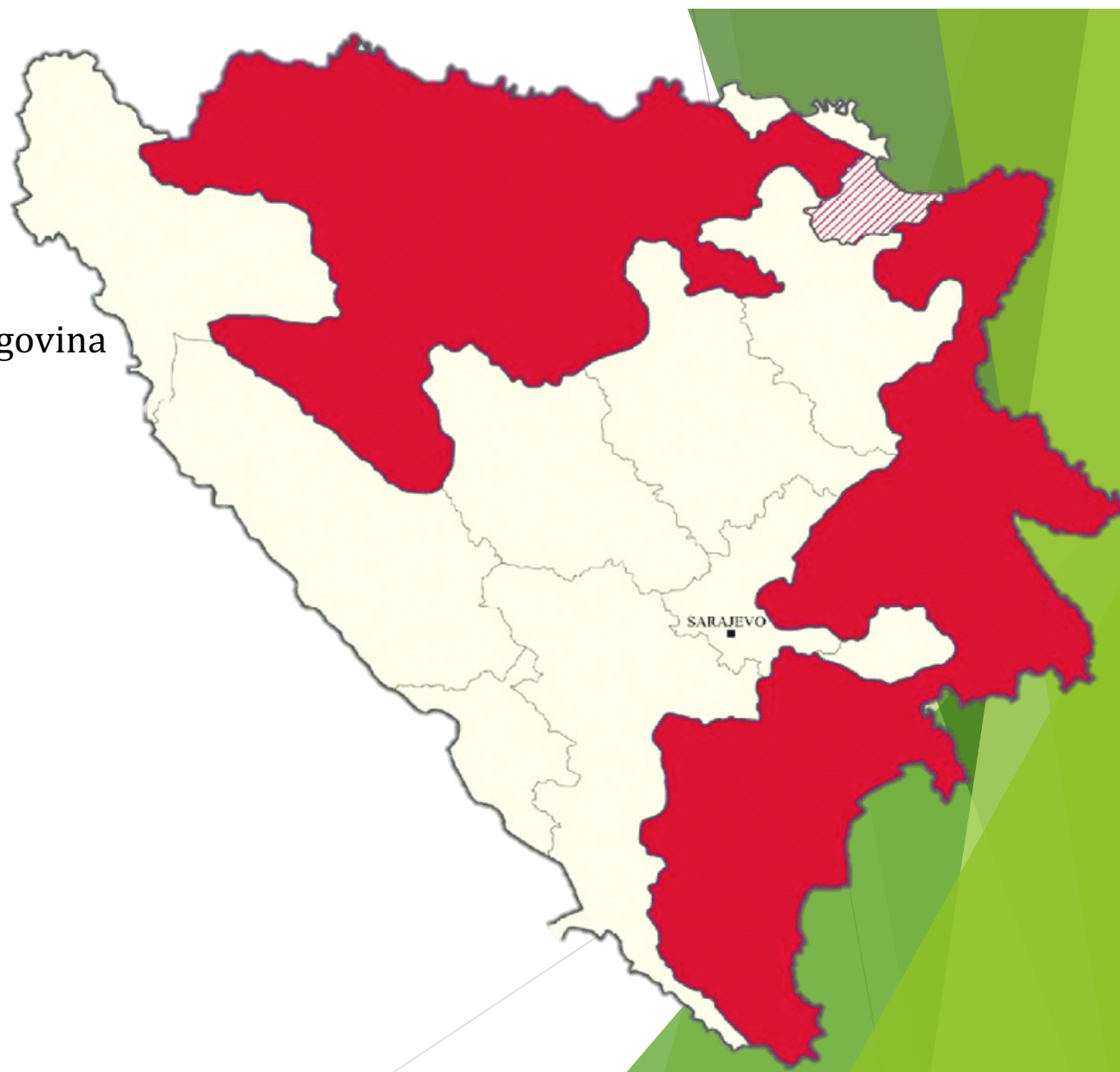
Brčko District

The first, and the last forest
taxation

1964-1968

The second started in

2006 -



List of invasive plant species in Bosnia and Herzegovina (from 2019)

001	<i>Abutilon theophrasti</i> Medik	026	<i>Eleusine indica</i> (L.) Gaertn.	056	<i>Parthenocissus quinquefolia</i> (L.) Planch.
002	<i>Acacia dealbata</i> Link	027	<i>Elodea canadensis</i> Michx.	057	<i>Paspalum dilatatum</i> Poir. in Lam.
003	<i>Acer negundo</i> L.	028	<i>Erigeron annuus</i> (L.) Desf.	058	<i>Paspalum distichum</i> L.
004	<i>Ailanthus altissima</i> (Mill.) Swingle	029	<i>Erigeron bonariensis</i> L.	059	<i>Phytolacca americana</i> L
005	<i>Amaranthus albus</i> L.	030	<i>Erigeron canadensis</i> L.	060	<i>Portulaca oleracea</i> L.
006	<i>Amaranthus blitoides</i> S. Watson	031	<i>Euphorbia maculata</i> L.	061	<i>Potentilla indica</i> (Jacks.) Th. Wolf
007	<i>Amaranthus retroflexus</i> L.	032	<i>Euphorbia prostrata</i> Aiton	062	<i>Prunus serotina</i> Ehrh.
008	<i>Ambrosia artemisiifolia</i> L.	033	<i>Fallopia baldshuanica</i> (Regel) Holub	063	<i>Pueraria montana</i> var. <i>lobata</i> (Willd.) Sanjappa & Pradeep
009	<i>Amorpha fruticosa</i> L. C.	034	<i>Fraxinus pennsylvanica</i> Marchall	064	<i>Reynoutria japonica</i> Houtt.
010	<i>Angelica archangelica</i> L.	035	<i>Galinsoga quadriradiata</i> Ruiz & Pav.	065	<i>Rhus typhina</i> L.
011	<i>Armoracia rusticana</i> Gaertn, May & Scherb.	036	<i>Galinsoga parviflora</i> Cav.	066	<i>Robinia pseudoacacia</i> L.
012	<i>Artemisia annua</i> L.	037	<i>Gleditsia triacanthos</i> L.	067	<i>Rudbeckia laciniata</i> L.
013	<i>Artemisia verlotiorum</i> Lamotte	038	<i>Glyceria striata</i> (Lam.) Hitchc.	068	<i>Sedum sarmentosum</i> Bunge
014	<i>Asclepias syriaca</i> L.	039	<i>Helianthus tuberosus</i> L.	069	<i>Senecio inaequidens</i> DC.
015	<i>Azolla filiculoides</i> Lam.	040	<i>Heracleum mantegazzianum</i> Sommier & Levier	070	<i>Solanum elaeagnifolium</i> Cav.
016	<i>Bidens frondosa</i> L.	041	<i>Impatiens balfourii</i> Hook.	071	<i>Solidago canadensis</i> L.
017	<i>Bidens subalternans</i> DC.	042	<i>Impatiens glandulifera</i> Royle	072	<i>Solidago gigantea</i> Aiton
018	<i>Broussonetia papyrifera</i> (L.) Vent.	043	<i>Impatiens parvifolia</i> DC	073	<i>Sorghum halepense</i> (L.) Pers.
019	<i>Buddleja davidii</i> Franch	044	<i>Iva xanthifolia</i> Nutt.	074	<i>Sporobolus vaginiflorus</i> (Torr.) Wood
020	<i>Carpobrotus acinaciformis</i> (L.) L. Bolus	045	<i>Juncus tenuis</i> Willd.	075	<i>Symphotrichum squamatum</i> (Spreng.) G. L. Nesom
021	<i>Cortaderia selloana</i> (Schult & Schult f.) Asch. & Graebn.	046	<i>Lactuca quercina</i> L.	076	<i>Tagetes minuta</i> L.
022	<i>Cuscuta campestris</i> Yuncker	047	<i>Lepidium virginicum</i> L.	077	<i>Tanacetum parthenium</i> (L.) Sch.Bip.
023	<i>Datura stramonium</i> L.	048	<i>Matricaria discoidea</i> DC	078	<i>Veronica persica</i> Poir.
024	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	049	<i>Medicago sativa</i> L.	079	<i>Xanthium orientale</i> L. ssp. <i>italicum</i> (Moretti) Greuter
025	<i>Echinocystis lobata</i> (Michx.) Torr. et Gray	050	<i>Melia azedarach</i> L.	080	<i>Xanthium spinosum</i> L.
		051	<i>Oenothera biennis</i> L.	081	<i>Xanthium strumarium</i> L. subsp. <i>strumarium</i>
		052	<i>Opuntia vulgaris</i> Mill.		
		053	<i>Oxalis stricta</i> L.		
		054	<i>Panicum capillare</i> L.		
		055	<i>Panicum dichotomiflorum</i> Mihex.		

Robinia pseudoacacia L.

- Black locust

- Most invasive tree species in Bosnia;
- Due to its high reproductive capacity (sexually and asexually) suppresses native species;
- In Bosnia his altitude is to 800 m.a.s.l.;
- Control measures : mechanical removal of trees and roots, use of herbicides;
- Benefits: erosion control, firewood, constructions, honey.



Ailanthus altissima (Mill.) Swingle - Tree of heaven

- An extremely aggressive species that suppresses native flora and vegetation;
- Allelopathic effect on other plants;
- Resistant to pollution, present in urban areas;
- Negatively affects on people's health;
- Control measures : mechanical removal of trees and roots, use of herbicides;



Ambrosia artemisiifolia L.

- Common ragweed

- Most invasive plant species in Bosnia;
- Present in both forests and agricultural lands, as well as in urban areas;
- **Allergen plant;**
- Extremely dangerous on people's health during the flowering period (july - september)
- Control measures : mechanical removal, use of herbicides, population education...



Phytolacca americana L. - Pokeweed

- Present in both forests and agricultural lands, as well as in urban areas;
- Causes problems in agricultural production (deep root, spreads quickly);
- The berries are a food source for some birds and small animals, but they are poisonous to humans and most mammals.
- Control measures : mechanical removal, use of herbicides.
- Benefits ?: pioneer vegetation; the plant also produces a red dye from the berries and a pink dye from the root. The dyes have been used for coloring wine, ink, paper, and fabrics.



Expecting to make issues in future

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		055	<i>Panicum dichotomiflorum</i> Mihcx.		



**Thank you for your
attention!**