

# Airmid Biannual List

July 1, 2024 – December 31, 2024

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Please note that IUCN Red List evaluation which Airmid Institute relies heavily on to create this list, is applied to populations which are wild. There is a continuum of management intensities, ranging from captive populations in zoos, aquariums, and botanical gardens to species that receive no conservation efforts. Clearly, confined populations are not "wild" and would be eliminated from a Red List assessment (i.e., data from such populations are not used when establishing the status of a species, save for Extinct in the Wild [EW]). Conversely, subpopulations of a great number of species depend on conservation measures (such as protected areas) that are primarily aimed at minimizing human impacts. These subpopulations are generally regarded as "wild," and their data are utilized in Red List assessments. These are separated by subpopulations controlled with moderate levels of intensity. For these subpopulations, the notion of "wild" may be determined by the degree of management and the subpopulation's predicted viability absent management (IUCN, 2022).

Reference: IUCN (2022). Guidelines for Using the IUCN Red List Categories and Criteria. Version 15.1

It is also important to note that many of these plants occur naturally in other parts of the world and are widely distributed globally. The National and Regional section of this list provides information on plants where they've been assessed in specific locations to give you guidance as to where not to source from. "Please note that the archive site has not been updated since 2019 and results of the search are likely be an underestimate" (Personal communication, ZSL and IUCN National Red List Working Group, 2023).

Yours in Nature, Kelly & The Airmid Team

# AIRMID INSTITUTE

Airmid Institute Biannual List of Wild Threatened, Near Threatened, and CITES-Protected Plants, Mammals, Fungi, and Seaweed Species Used in Aromatherapy, Perfumery, and Aromatic Herbalism (July 1, 2024 – December 31, 2024)

#### GLOBAL

Common name	Latin name	Location	Conservation status; CITES*	Population Trend	Year Assessed
Fraser fir	Abies fraseri	Global	Endangered	+	2011
Himalayan fir needle	Abies spectabilis	Global	Near Threatened	+	2010
Chinese rice flower	<mark>A</mark> glaia od <mark>o</mark> rata	Global	Ne <mark>ar Threa</mark> tened		2010
Angelica (Himalayan)	Angelica <mark>gl</mark> auca	Global	Endangered	+	2014
Rosewood	Aniba ros <mark>ae</mark> odora	Global	*Endangered	+	2021
Agarwood	Aquilaria c <mark>ra</mark> ssna	Global	*Critically Endangered	+	2017
Agarwood	Aquilaria malaccensis	Global	*Critically Endangered	+	2018
Agarwood	Aquilaria rostrata	Global	*Critically Endangered		2017
Agarwood	Aq <mark>ui</mark> laria sinensis	Global	*Vulnerable	+	2018
Argan	Argania spinosa	Global	Vulnerable	+	2021
Frankincense	Boswellia carteri syn. <mark>sa</mark> cra	Global	Near Threatened	▲	1998
Muhuhu	Brachylaena huillensis	Global	Near Threatened	<b>•</b> •	1998
Linaloe	Bursera aloexylon	Global	Vulnerable		2019
Taiwan incense cedar	Calocedrus formosana	Global	Endangered	+	2010
Elemi (Piling-liitan)	Canarium luzonicum	Global	Near Threatened	+	2019
Cedrela (Spanish cedar)	Cedrela odorata	Global	*Vulnerable	+	2017
Atlas cedarwood	Cedrus atlantica	Global	Endangered	+	2013
Cedar of Lebanon	Cedrus libani	Global	Vulnerable		2011
Taiwan cypress	Chamaecyparis formosensis	Global	Endangered	?	2010
Siam Wood/Fujian cypress	Chamaecyparis hodginsii	Global	Vulnerable		2010

Port Orford cedarwood	Chamaecyparis lawsoniana	Global	Near Threatened	1	2011
Hinoki cypress	Chamaecyparis obtusa; C. obtusa var. obtusa	Global	Near Threatened	?	2011 2010
Lawang	Cinnamomum culilaban	Global	Endangered	?	2020
Coffee	Coffea arabica	Global	Endangered		2018
Sweet myrrh	Commip <mark>h</mark> ora gui <mark>d</mark> otti	Global	Vulnerable		2018
Guggul (Common myrrh)	Com <mark>mi</mark> phora w <mark>i</mark> ghtii	Global	Critically Endangered	+	2014
Massoy	C <mark>ryp</mark> tocarya <mark>m</mark> assoy	Global	Near Threatened	?	2019
Japanese cedar	Cryptomeria japonica	Global	Near Threatened		2010
Gurjum	Dipterocarpus turbinatus	Global	Vulnerable	+	2017
Borneo camphor	Dryobalanops aromatica	Global	Vulnerable	+	2017
Eucalyptus (Red river gum)	Eucalyptus camaldulensis	Global	Near Threatened	_	2019
Camden wollybutt	Eucalyptus macarthurii	Global	Vulnerable		2019
Eucalyptus (Narrow- leaved peppermint)	Eucalyptus radiata	Global	Near Threatened	—	2019
Guaiacwood	Gonopterodendron sarmientoi	Global	*Endangered	+	2017
Macadamia	Macadamia integrifolia	Global	Vulnerable	?	2019
Macadamia	M <mark>aca</mark> damia ternif <mark>oli</mark> a	Global	Endangered		2019
Spikenard	Nardostachys jatamansi syn: N. grandiflora	Global	*Critically Endangered	+	2020
Araucaria	Neocallitropsis pancheri	Global	Endangered		2009
Brazilian Sassafras	Ocotea pretiosa	Global	Vulnerable	▲↓	1998
Phoebe	Oreodaphne porosa	Global	Vulnerable	<b>4</b>	1998
Cretan dittany	Origanum dictamnus	Global; Europe; Mediterranean	Near Threatened	?	2011
Serbian spruce	Picea omorika	Global	Endangered	•	2016
Ravensara	Ravensara aromatica	Global	Near Threatened	+	2020
Sandalwood (Iliahi)	Sa <mark>n</mark> talum freycinetianum	Global	Endangered		2016
Sandalwood (East Indian)	Santalum album	Global	Vulnerable	+	2018

Sandalwood (New Caledonia)	Santalum austrocaledonicum	Global	Near Threatened	+	2019
Sandalwood (Mountain)	Santalum paniculatum	Global	Vulnerable	?	2017
Sandalwood (Western Australian)	Santalum spicatum	Global	Vulnerable	+	2021
Costus	Saussure <mark>a c</mark> ostus	Global	*Critically Endangered	+	2014
Oriental arborvitae	Thuja <mark>ori</mark> entalis	Global	Near Threatened	?	2011
Hemlock spruce	Tsug <mark>a</mark> canaden <mark>s</mark> is	Global	Near Threatened		2011
Vanilla	Va <mark>n</mark> illa planif <mark>o</mark> lia	Global	*†Endangered		2017
Baboonwood	<mark>V</mark> irola surin <mark>a</mark> mensis	Global	Endangered	<b>4</b>	1998
Shea (African)	Vitelleria p <mark>aradoxa</mark> V. paradoxa subsp. nilotica	Global	Vulnerable	?	1998

#### NATIONAL & REGIONAL

Common name	Latin name	Location	Conservation status; CITES*	Population Trend (N/A)	Year Assessed
Ambrette seed	Abel <mark>m</mark> oschus mosch <mark>at</mark> us	Sri Lanka	Near Threatened		2012
Calamus	Acorus <mark>ca</mark> lamus	India (Ke <mark>ra</mark> la)	Endangered		2000
Calamus	Acorus calamus	India (Tamil Nadu); Switzerland; Mongolia	Vulnerable		2000 2002 2011
Calamus	Acorus calamus	Norway	Near Threatened		2006
Calamus	Acorus calamus	Hungary	Near Threatened		2007
Aloe	Aloe vera	Malta	Vulnerable		1989
Wormwood	Artemisia absinthium	Ireland	Vulnerable		2016
Frankincense	Boswellia serrata	Sri Lanka; India	Critically Endangered	1	2012 2015
Cinnamon	Cinnamomum verum	Sr <mark>i</mark> Lanka	Vulnerable		2012

Cistus	Cistus ladanifer	France (continental)	Near Threatened	2019
Coconut	Cocos nucifera	Colombia	Near Threatened	2005
Saffron	Crocus sativus	Switzerland	Vulnerable	2002
Cardamom	Elettaria ca <mark>rd</mark> amomum	Sr <mark>i Lank</mark> a	Vulnerable	2012
Hyssop	Hyssopu <mark>s of</mark> ficina <mark>li</mark> s	Norway	Vulnerable	2013
Shikimi	Illiciu <mark>m a</mark> nisatu <mark>m</mark>	South Korea	Near Threatened	2012
Elecampane	Inul <mark>a h</mark> elenium	United Kingdom	Near Threatened	2014
Juniper berry	Ju <mark>ni</mark> perus co <mark>m</mark> munis	Albania	Vulnerable	2013
Juniper berry	<mark>Ju</mark> niperus c <mark>o</mark> mmunis	United Kingdom	Near Threatened	2014
Linseed (Flax)	Linum usitatissimum	Switzerland	Endangered	2002
Honeysuckle	Lonicera <mark>ca</mark> prifolium	Switzerland	Near Threatened	2002
Black cumin	Nigella s <mark>ati</mark> va	Croatia	Near Threatened	2007
Brazilian Sassafras	Ocotea pr <mark>et</mark> iosa	Brazil	Endangered	2013
Sandalwood, East African	Osyris lanceolata	Burundi; Ethiopia; Kenya; Rwanda; Uganda; United Republic of Tanzania	*Protected by CITES although conservation status is Least Concern	2013
Moroccan oregano	O <mark>ri</mark> ganum comp <mark>act</mark> um	Spain	Vulnerable	2008
Oregano	Or <mark>ig</mark> anum vulgare	Albania	Endangered	2013
Spruce (Norway)	Picea abies	Albania	Critically Endang <mark>er</mark> ed	2013
Black pepper	Piper ni <mark>gru</mark> m	Southern India	Near Threatened	2000
Sweet almond	Prunus dulcis	Switzerland	Vulnerable	2002
Rose root**	Rhodiola rosea	Bulgaria; Cze <mark>ch</mark> Republic	Critically Endangered	2011 2012
Rose root**	Rhodiola rosea	Mongolia	Vulnerable	2011
Sandalwood (Lanai)	Santalum haleakalae var. lanaiense	Hawaii	Endangered	2013
Sandalwood (North Queensland)	Santalum lanceolatum	Australia (Victoria)	Endangered	2014
Winter savory	Satureja montana	Albania	Vulnerable	2013
Benzoin	Styrax benzoin	Singapore	Vulnerable	1994
Comfrey	Symphytum officinale	Albania	Vulnerable	

Blue tansy	Tanacetum annuum	France (continental)	Critically Endangered	2012
Valerian	Valeriana officina <mark>lis</mark>	Albania	Vulnerable	2013
Valerian	Valeriana officinalis	Norway; United Kingdom	Near Threatened	2013 2014
East African greenheart	Warburgia <mark>u</mark> gande <mark>n</mark> sis	Uganda	Vulnerable	2016

## ANIMAL FIXATIVES

Common name	Latin name	Location	Conservation status; CITES*	Population Trend	Year Assessed
Siberian musk deer	Moschus <mark>m</mark> oschiferus	Global	*Vulnerable	+	2014
Sperm whale	Physeter macrocephalus	<mark>Global</mark>	*††Vulnerable	+	2008

## AIRMID'S WATCHFUL EYE

Common name	Latin name	Location	Research
Argan	Argania spin <mark>osa</mark>	Morocco	Sinsin et al., 2020
Palo santo	Bursera graveolens	Ecuador; Peru	Personal communication, Professor M. Puescas Chully, 2024
Roman chamomile	Chamaemelum nobile	UK	Kew Royal Botanic Garden, 2021
Oakmoss	Evernia prunastri	Iceland	Natural History Institute of Iceland, 1996
Olive	Olea europaea	Lebanon; Turkey; Greece	Kaniewski eta l., 2023
Cretan marjoram	Or <mark>igan</mark> um microphyllum	Greece	Kougioumoutzis et al., 2021
Black spruce	Picea mariana	Canada	Baltzer et al., 2021
Almond	Prunus dulcis	Global	Freitas et al., 2023

White sage	Salvia apiana	Southern	UpS At-Risk Working Committee, 2021; Personal communication
		California	A. Sanchez, 2024
Valerian	Valeriana jatamansi	Nepal	Rana et al., 2020

Species in red have been noted by the IUCN as being threatened by the trade of their extract/oil.

population trend unspecified population trend decreasing population trend increasing population trend unknown population trend stable

- = green opposing arrows
- = green arrow pointing down
- = green arrow pointing up
- = green question mark = green line
- \*CITES-protected species

\*\*If sourcing rose root (Rhodiola rosea), please contact Airmid Institute.

\*†Although protected by CITES, in vitro plant cultures of legal origin, cut flowers from naturalized or artificially propagated plants and cultivated vanilla seedpods are CITES-exempt.

\*++Although protected by CITES, ambergris itself is CITES-exempt; however, its trade is still heavily regulated within certain countries.

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