

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES
OF WILD FAUNA AND FLORA



Twenty-fifth meeting of the Plants Committee
Geneva (Switzerland), 2-3 June 2021

Species specific matters

Maintenance of the Appendices

ADDENDUM TO PRODUCTION OF A CITES CHECKLIST
FOR *DALBERGIA* SPP.

1. This document has been prepared Secretariat in collaboration with the nomenclature specialist (Ms. Ronell Renett Klopper).

Progress since May 2020

2. Following the postponement due to the COVID-19 pandemic of the 25th meeting of the Plants Committee (PC25), scheduled to take place from 17 to 23 July 2020, the Committee took several intersessional decisions (see [Notification No. 2020/056](#) of 21 September 2020), including the approval of its workplan for 2020-2022 as outlined in document PC25 Doc. 7.2. Through its workplan, the Plants Committee agreed on the leads for the implementation of Decision 18.308 on *Production of a CITES Checklist for Dalbergia spp.*, as follows: Ronell R. Klopper, nomenclature specialist; and Yan Zeng, alternate representative of Asia.
3. Following an online briefing of the Plants Committee held on 23 November 2020, it was agreed that the Secretariat will collaborate with the nomenclature specialist (Ms. Ronell Renett Klopper) to further consider with the Plants Committee the recommendations contained in document PC25 Doc. 34 in preparation for PC25.
4. With the external funds secured for the implementation of Decision 18.307, and in line with step i), paragraph 3 of document PC25 Doc. 34, the Secretariat commissioned in March 2021 the Royal Botanic Gardens, Kew (RBG Kew) to produce a basic "CITES Checklist for *Dalbergia* spp.", as follows:
 - Activities: a) undertake a desk study and consultations with experts; b) submit a draft Checklist to the Secretariat for further consideration by the Plants Committee; and c) revise and finalize the Checklist.
 - Expected outputs: a) a basic "CITES Checklist for *Dalbergia* spp."; and b) identification of future work towards an annotated Checklist in line with step ii) paragraph 3 of document PC25 Doc. 34.
5. In parallel, the nomenclature specialist undertook consultations with relevant experts to provide RBG Kew additional references and information sources that should be considered in developing the Checklist, as a complement to those already identified in the Annex to document PC25 Doc. 34, including:

Adema, F., Ohashi, F. & Sunarno, B. 2016. Notes on Malesian Fabaceae (Leguminosae-Papilionoideae) 17. The genus *Dalbergia*. Blumea 16: 186–206. Provides information on nomenclature, taxonomy status, life form, type information, specimen citations, distribution, habitat & ecology, and some notes.

Chen, D., Zhang, D. & Larsen, K. 2010. Fabaceae: tribe Dalbergieae. The Flora of China, Vol. 10. Available online at http://www.efloras.org/florataxon.aspx?flora_id=2&taxon_id=20835

Leipzig Catalogue of Vascular Plants. November 2020. Global in scope, includes 365 accepted *Dalbergia* taxa plus synonymy. Species+ currently includes 291 accepted taxa. Geography is not explicitly included in LCVP, so other sources would need to be consulted for that.

Li, S.J. 2017. *Dalbergia* in Asia. Science Press, Beijing. During the research, 19000 specimens of *Dalbergia* were examined and 92 species identified in Asia.

Linares, J. & Sousa, S.M. 2011. Nuevas especies de *Dalbergia* (Leguminosae: Papilionoideae: Dalbergieae) en México y Centroamérica. *Ceiba* 48(1-2): 61–82.

PC24 Inf. 5. Plant nomenclature. <https://cites.org/sites/default/files/eng/com/PC/24/Inf/E-PC24-Inf-15.pdf>
The World Flora Online (www.worldfloraonline.org)

6. Since the signature of the small-scale funding agreement (SSFA) between the Secretariat and RBG Kew, the nomenclature specialist has been working closely with them in exploring an innovative approach for the format and layout of the Checklist. The approach includes incorporation of intuitive and generic icons to represent certain diagnostic characters, which will minimize text and reduce the risk of translation errors. This approach is also expected to expand the utility of the Checklist beyond the CITES mandate. In its conversations with the nomenclature specialist, RBG Kew has committed to share with the Plants Committee a mock-up of the layout for further discussion as soon as it is ready.
7. The Annexes 1 and 2 to the present addendum represent the progress achieved at the time of writing by RBG Kew in the desk study and consultation with experts, as per the first activity under the relevant SSFA.

Revised recommendations

8. The Plants Committee is invited to:
 - a) take note of document PC25 Doc. 34 and its addendum on the progress achieved in the implementation of Decision 18.307 since May 2020;
 - b) as per paragraph a) of Decision 18.308, review Annexes 1 and 2 to the present addendum and provide comments for consideration by RBG Kew;
 - c) continue to advise the Secretariat and RBG Kew in the process of developing the Checklist, as per step i) paragraph 3 of document PC25 Doc. 34;
 - d) discuss the pertinence of including the final Checklist as a standard reference in Resolution Conf. 12.11 (Rev. CoP18) on *Standard nomenclature*;
 - e) propose to the Conference of the Parties the extension and revision of Decisions 18.307 and 18.308 as follows:

18.307 (Rev. CoP19) Directed to the Secretariat

The Secretariat shall, in close cooperation with the nomenclature specialist of the Plants Committee:

- a) *subject to availability of external resources, ~~undertake the development of~~ develop an annotated CITES Checklist of *Dalbergia* spp., taking into consideration:*
 - i) *~~the Checklist as included in Resolution Conf. 12.11 (Rev. CoP19) on Standard nomenclature; relevant elements of paragraph 7 of document CoP18 Doc. 99, as well as the pertinence of including a distinction between timber and non-timber species of *Dalbergia* spp.;~~*
 - ii) *~~the required~~ research and other work needed for the production of such a Checklist; and*
 - iii) *aspects related to its publication; and*
- b) *report on progress ~~or results of this process~~ to the Plants Committee at its regular meetings and seek its advice and input.*

18.308 (Rev. CoP19) Directed to the Plants Committee

The Plants Committee shall:

- a) *consider progress ~~and results~~ reported by the Secretariat as per Decision 18.307 (Rev. CoP19); and*
- b) *make recommendations to the Secretariat and the Conference of the Parties, as appropriate.*

~~*These recommendations could include timelines for completion of the Checklist, or the adoption of a standard nomenclature reference for Dalbergia spp., amongst others.*~~

- f) present the findings and outcomes of this work to the 19th meeting of the Conference of the Parties.

Production of a basic “CITES Checklist for *Dalbergia* spp.”

Activity 1: Desk study and consultation with experts

Progress by RBG Kew

Contributors

1. From RBG Kew, CITES Team: Carly Cowell, Emma Williams, Leigh-Anne Bullough and Jessica Grey.
2. From the *World Flora Online -Leguminosae group*: Bente Klitgaard (RBG Kew), Xander van der Burgt (RBG Kew), Haroldo C. de Lima (Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Brazil), Olivier Lachenaud (Meise Botanic Garden, Belgium), José Ledis inares (Faculty of Biología, Centro Universitario Regional del Litoral Atlántico (C.U.R. L.A.), Honduras), Angélica Cervantes (Comisión Nacional para el Conocimiento y Uso de la Biodiversidad, Mexico), Shi-Jin Li (South China Botanical Garden, Chinese Academy of Sciences, China), Peter Phillipson (Missouri Botanical Garden, USA), Nichola Wilding (Missouri Botanical Garden, USA), Nivothenintsoa Rakotonirina (University of Antananarivo, Madagascar), Simon Cramer (ETH Zurich, Switzerland) and Sylvie Andriambololona (Missouri Botanic Garden, Madagascar).

Methodology

3. The literature review was based on undertaking a comparison between *The World Checklist of Selected Plant Families* and existing references for *Dalbergia*. The dataset for *Dalbergia* was provided by *The World Checklist of Selected Plant Families* (WCSP). WCSP has a network of more than 150 contributors from 22 countries. The main goal of the WCSP checklists is to provide high quality peer reviewed baseline data on all accepted taxa included in each family. A download from the *World Checklist of Selected Plant Families* (WCSP 2020) was made on the 29th July 2020 of all *Dalbergia* species names, infraspecifics and associated synonyms. Facilitated by the Royal Botanic Gardens, Kew. Available on: <http://apps.kew.org/wcsp/>.
4. The comparison between the *World Checklist of Selected Plant Families* and the current standard references for *Dalbergia* is presented in the Excel document (PC25 Doc. 34, Addendum, Annex 2)
5. The list was reviewed by taxonomists in the World Flora Online Leguminosae Group (WFOLG), led by Bente Klitgaard from the Royal Botanic Gardens Kew. A completed draft of the work done by the WFOLG was given to the RBG Kew, CITES team who have then checked it against references provided; a) in Annex to PC25 Doc 34; b) through consultations with experts undertaken by the nomenclature specialist of the Plants Committee in March 2021; c) the rosewood identification working group in March 2021; and d) recommended by Bente Klitgaard. The full list of references supplied and checked is available in the Excel document, under the ‘References’ Tab.
6. The literature review was captured by recording if the World Flora Online taxonomists and/or the supplied references agreed with the list from WCSP (2020). In a positive case, the reference citation or “World Flora Online” was written in the “Literature agreed” column in the ‘*Dalbergia* checklist’ Tab of the Excel document. If the World Flora Online taxonomists and/or the references checked disagreed with the list from WCSP (2020) then this was added to the “Discrepancies” column in the ‘*Dalbergia* checklist’ Tab of the Excel document (PC25 Doc. 34, Addendum, Annex 2). Examples of disagreements included spelling variations, authors differences and changes in taxonomic opinions from the WCSP list (2020). It should be noted that for certain taxa there are references in the “Literature agreed” and “Discrepancies” column. For these species, the WFOLG are still currently discussing the status of that taxa.
7. Seventy-one species or infraspecifics that were cited in references but not present in the WCSP list were added to the ‘*Dalbergia* checklist’ Tab with the reference they came from in the “New name reference” column. The year of publication was added where possible from the International Plant Names Index (2021). Seven (7) unpublished *Dalbergia* species were also added to the list, six (6) are *in press* by the WFOLG, and one (1) is cited in the IUCN Red List. Lastly, for the geographic data we used the international Biodiversity Information Standards (TDWG) regions as this is used by the Plants of the World Online which is based on the World Checklist. The TDWG regions are botanical regions that do not necessarily conform

to country borders. Continents are listed as continent sections for example; "Southern South America." covers Argentina, Chile, Paraguay and Uruguay. Geographic regions are patchy for synonyms and these gaps will be addressed in the final *Dalbergia* Checklist of species.

8. The following references included in Annex to PC25 Doc 34 or recommended through the informal consultations on nomenclature were not checked against the WCSP (2020) list. They are however listed in 'References' Tab under the heading 'Additional Sources':
 - a) ILDIS World Database of Legumes (2021) which contains older data not updated since 2010;
 - b) International Plant Names Index (2021) and Tropicos (2021) which are nomenclature resources;
 - c) Leipzig (2020) which is updated from references already checked and more recent lists, and thus would be a duplication of effort;
 - d) Plants of the World Online (2021) as it is based on identical data to the *World Checklist of Selected Plant Families*; and
 - e) Vatanparast *et al.* (2013) which provides information on *Dalbergia* phylogeny only.

Steps to follow

9. In line with recommendation under paragraph 8 a) of the Addendum, the feedback provided by the Plants Committee to Annexes 1 and 2 to the present addendum will be considered by RBG Kew in continuing the production of the basic Checklist.
10. Particularly welcome is feedback on those taxa for which discrepancies arose between the World Flora Online and/or references and the WCSP list.