How threatened are the world’s maples? Preparing The Red List of Maples

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IUCN SSC Global Tree Specialist Group
IUCN Red List assessment:

an estimate of extinction risk

What is the likelihood of a species becoming extinct in the near future, given current knowledge about population trends, range, and recent, current or projected threats?

It is not a list of species that are priorities for conservation action

Illustration copyright Bob Diven
The IUCN Red List

Threatened categories:
- Critically Endangered (CR)
- Endangered (EN)
- Vulnerable (VU)
- Near Threatened (NT)
- Least Concern (LC)
- Data Deficient (DD)
- Not Evaluated (NE)

Criteria:
A. Population reduction
B. Restricted geographic range
C. Small population size & decline
D. Very small or restricted population
E. Quantitative analysis

Threatened categories:
- Critically Endangered (CR)
- Endangered (EN)
- Vulnerable (VU)
Global Tree Assessment

Conservation assessments of all tree species by 2020

- Conservation assessments of the status of plants in the wild help to inform and prioritise conservation efforts
Maples - why now?

• 162 species being assessed in total

• New information

• New species assessed
Maple assessments — some considerations

• Taxonomic approach
  - largely based on regional floras

• Assessments currently to species level
The process of red listing

- Distribution
  - Altitudinal limits
  - Countries of occurrence
  - Map
- Population
  - Trends
- Habitats and Ecology
The process of red listing

- Use and Trade

- Threats

- Conservation
  - Subject to ex/in-situ conservation?
Maple assessments – where are we?

- European ✓
  11 species assessed
- Timbers ✓
  16 species assessed
  (non. European, non Vietnamese)
- Vietnamese
  10 species assessed
  (excl. timbers)
- North and Central America ✓
  1 species (excluding timbers!)
- + 7 LC workflow
2009 vs 2017 so far
(46 assessments)…

2 x DD in 2009 now LC (A. heptaphlebium; A. pentapomicum)

1 x VU in 2009 now LC (A. granatense)

2 x NT in 2009 now LC (A. lobelii; A. tonkinense*)

36 species remain as assessed in 2009

4 new assessments (3 LC, 1 CR)
Updated assessments online

www.iucnredlist.org
Where next?

2017 International Maple Symposium
Roscoff
24-29 October
Maple Red Listing Workshop 24 October 14:00-18:00

www.maplesociety.org
October 25th: Maple Species

**Maples of the Hoang Lien Mountains** - Dan Crowley, Westonbirt, The National Arboretum

**Chinese Maples** - Wiebang Sun, Kunming Botanic Garden, China,

**Iranian Maples** - Azad Rastegar, Tehran University

**Better understanding the diversity and distributions of North American maples** - Dr. A.J. Harris, Smithsonian Institute, Washington

**Roundtable on current views on species listing and ways forward.** Dr. Koen Camelbeke, Arboretum Wespelaar, Chair and moderator. Including the morning speakers and Tony Aiello, Bill McNamara and Piet de Jong

Followed by afternoon garden tours
October 26th: Maple Cultivars

*Acer pentaphyllum Conservation Project* - Dr. Bill McNamara, Quarryhill Botanical Garden, California

*Acer griseum Conservation Project* - Dr. Tony Aiello, Morris Arboretum, Philadelphia

Survey of Maple Cultivars Recently Introduced and Assessment of their Performance - Ed Shinn, Maple collector

Maple Cultivar Groupings: an Update - Cor van Gelderen, Esveld Nurseries

Roundtable on Cultivar classifications and registration. With Dr. Agustin Coello-Vera, Chairman International Maple Society, chair and moderator. Including Cor van Gelderen, Ed Shinn, Hugh Angus, Matt Nichols, Emery Davis and more

Followed by afternoon garden tours
October 27-29th: Post Symposium Garden Tours

Including:

Maple collection of Emery Davis

L'étang de l'Aunay

Le Vastérical

Jardin du Mesnil

Jardin de Valérianes