Tapping the Green Market

Certification and Management of Non-Timber Forest Products

Edited by Patricia Shanley, Alan R Pierce, Sarah A Laird and Abraham Guillén

Earthscan Publications Ltd, London • Sterling, VA
Contents

List of figures, tables and boxes viii
About the contributors x
The NTFP certification project team xiii
The People and Plants initiative by Alan Hamilton xv
People and Plants partners xvi
Acknowledgements xvii

Section I: Overview

Introduction by Patricia Shanley, Sarah A Laird, Alan R Pierce and Abraham Guillén 3

1 The rise of certification, the current state of the playing field for NTFP certification programmes and future prospects by Jamison B Ervin and Patrick Mallet 7

2 The process of drafting and revising guidelines for NTFP certification by Patricia Shanley and Sarah A Laird 20

3 Summaries of the field-testing results in Mexico, Bolivia and Brazil by Abraham Guillén 28

Section II: NTFP species profiles from around the world

Introduction by Patricia Shanley, Alan R Pierce, Sarah A Laird and Abraham Guillén 47

Latin America

4 Chicle (Manilkara zapota) by Peter W Alcorn 49
5 Brazil nut (Bertholletia excelsa) by Enrique G Ortiz 61
6 Palm heart (Euterpe spp.) by Dennis Johnson 75
7 Pau d’arco (Tabebuia spp.) by M Constanza von der Pahlen 85
8 Cat’s claw (Uncaria guianensis and U. tomentosa) by Miguel N Alexiades 93
9 Breu resin (Protium spp.) by Campbell Plowden 110
10 Titica vine (Heteropsis spp.) by Campbell Plowden 116
11 Amapá (Parahancornia spp. and Brosimum spp.) by Campbell Plowden 123
12 Copaiba (Copaifera spp.) by Campbell Plowden 126
13 Sangre de drago (Croton lechleri) by Miguel N Alexiades 136
Tapping the Green Market

Eastern North America

14 Fiddlehead ferns (Matteucia struthiopteris) by Alan R Pierce 156
15 Maple syrup (Acer saccharum) by Alan R Pierce 162
16 American ginseng (Panax quinquefolius) by Alan R Pierce 172

The Mediterranean region

17 Mastic gum (Pistacia lentiscus), cork oak (Quercus suber), argan (Argania spinosa), pine nut (Pinus pinea), pine resin (various spp.) and chestnut (Castanea sativa) by Yorgos Moussouris and Pedro Regato 183

Sub-Saharan Africa

18 Griffonia (Griffonia simplicifolia) by Kodzo Gbewonyo 200
19 Baobab bark (Adansonia digitata) by Claudia Romero, Isla Grundy, Bruce Campbell and Anthony B Cunningham 208
20 Yohimbe (Pausinystalia johimbe) by Terry C H Sunderland, Marie-Laure Ngo-Mpeck, Zacharie Tchoundjeu and Sarah A Laird 215

Africa and Asia

21 Rattan (various spp.) by Terry C H Sunderland and John Dransfield 225
22 Amla (Phyllanthus emblica) by Ganesan Balachander 240
23 Sumatra benzoin (Styrax spp.) by Esther Katz, Carmen García and Marina Goloubinoff 246

Other initiatives

24 Sustainable harvesting of epiphytic bromeliads in the highlands of Chiapas, Mexico: a pilot study by Jan H D Wolf and Cornelis J F Konings 257
25 Reducing the ecological footprint of the ‘wooden rhino’: the case for certification of Kenyan woodcarvings by Susanne F Schmitt and Anthony B Cunningham 259

Section III: The core elements of NTFP certification

26 Ecological issues by Alan R Pierce and Patricia Shanley 267
27 Social issues by Alan R Pierce 283
28 Subsistence issues by Alan R Pierce 299
   Space outside the market: implications of NTFP certification for subsistence use – a northern case study from the Upper Peninsula Region, US by Marla R Emery 302
   The interface of timber and non-timber resources: declining resources for subsistence livelihoods – a southern case study from Brazilian Amazonia by Patricia Shanley, Leda Luz and Margaret Cymerys 313
29 Marketing issues by Sarah A Laird and Abraham Guillén 322
30 Technical issues by Abraham Guillén, Alan R Pierce and Richard Z Donovan 337
Section IV: Conclusions and recommendations

31 Conclusions and recommendations by Patricia Shanley, Sarah A Laird, Alan R Pierce and Abraham Guillén 353

Appendices

I Generic guidelines for assessing the management of NTFPs by the NTFP certification project team 366
II Species-specific NTFP certification guidelines for the production of maple syrup by Alan R Pierce 386
III Resource directory 399

Acronyms and abbreviations 403
References 407
Index 440