

## Contents

<b>The Arcus Foundation</b> .....	<b>viii</b>
<b>Notes to Readers</b> .....	<b>viii</b>
<b>Acknowledgments</b> .....	<b>ix</b>
<b>Apes Overview</b> .....	<b>x</b>
<b>Introduction</b> .....	<b>1</b>

### Section 1

#### Industrial Agriculture and Ape Conservation

<b>1. Economic Development and Conservation of Biodiversity: Understanding the Interface of Ape Conservation and Industrial Agriculture</b> .....	<b>13</b>
Introduction	13
The Role of Palm Oil in Poverty Alleviation and Land Tenure	18
Industrial Agriculture and Climate Change	19
Impact of Industrial Agriculture on Ape Populations	24
Rescue Centers and Problems Faced with Rescued, Translocated and Reintroduced Orangutans	32
Agricultural Industry Engagement in Ape Conservation and Mitigation Strategies	33
The Roles of Producers, Buyers and Consumers	38
Conclusion	39
<b>2. Encroaching on Ape Habitat: Deforestation and Industrial Agriculture in Cameroon, Liberia and on Borneo</b> .....	<b>41</b>
Introduction	41
Industrial Agricultural Concessions across Ape Ranges	43
Industrial Crops in Ape Ranges	46
Deforestation and Industrial Agriculture: The Cases of Cameroon, Liberia and Borneo	46
Conclusion	67
<b>3. From Habitat to Plantation: Causes of Conversion in sub-Saharan Africa</b> .....	<b>71</b>
Introduction	71
Expansion of Africa's Agro-Industry	73
Sources of Investment	85
Drivers of Expansion into Africa	87
Industrial Agriculture and Ape Habitat	92
Sustainable Development	96
Conclusion	102
<b>4. Legal Frameworks at the Interface between Industrial Agriculture and Ape Conservation</b> .....	<b>105</b>
Introduction	105
Findings from the Trend Analysis	109
Conclusion	131

<b>5. From Process to Impact of a Voluntary Standard: The Roundtable on Sustainable Palm Oil</b> .....	<b>135</b>
Introduction	135
Launching an Institution with a Global Vision: The Creation, Architecture and Operation of the RSPO	137
Case Studies: Industry Applications of RSPO Principles	143
Obstacles to Success: The RSPO's Operational Challenges	152
Reaching Agreements and Controlling Interpretation: Process-related Obstacles	153
The RSPO's Move Toward Enhancing Conservation Impact	157
Conclusion	162
<b>6. Impacts of Industrial Agriculture on Ape Ecology</b> .....	<b>165</b>
Introduction	165
Different Crop Types: Different Impacts	167
Different Ape Species: Different Impacts	167
The Varying Impacts of Different Phases of Production	172
Remediation	177
Long-term Impacts	179
The Impact of Socioeconomic and Cultural Values on the Forest–Agriculture Interface	183
Human–Ape Interactions	183
Conclusions on the Need to Incorporate the Human Social Dimension in the General Picture	187
Survey Results: Summary of Main Impacts	188
Conclusions	190
<b>Section 2</b>	
<b>The Status and Welfare of Great Apes and Gibbons</b>	
<b>Introduction</b> .....	<b>194</b>
<b>7. Ape Populations over Time: Case Studies from Gombe, Mount Halimun Salak, Sabangau and Wamba</b> .....	<b>197</b>
Introduction	197
Bornean Orangutans in the Sabangau Peat Swamp Forest	200
The Chimpanzees of Gombe	207
The Bonobos of Wamba in the Luo Scientific Reserve, DRC	215
The Silvery Gibbons in Mount Halimun Salak National Park, Java, Indonesia	221
Final Thoughts	226
<b>8. The Status of Captive Apes</b> .....	<b>229</b>
Introduction	229
Apes in Captivity in Range State Regions	231
Apes in Captivity in Non-range States of the Global North	241
Discussion	256
Conclusion	258
<b>Annexes</b> .....	<b>260</b>
<b>Acronyms and abbreviations</b> .....	<b>264</b>
<b>Glossary</b> .....	<b>268</b>
<b>References</b> .....	<b>275</b>
<b>Index</b> .....	<b>323</b>