



ASEAN Guidelines for Sustainable Harvest and Resource Management Protocols for Selected Non-Timber Forest Products (NTFPs)







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    - Ecological
    - Harvest
    - Trade and markets
    - Institutions
    - Policies and regulations
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    - **■** Climate adaptation



# adoption (2020)



# 42nd AMAF (October 2020)





# sharing & dissemination 42 (2020)









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#### ASEAN Guidelines For Sustainable Harvest and Resource Management Protocols For Selected Non-Timber Forest Products (NTFPs)

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#### ASEAN Guidelines For Sustainable Harvest and Resource Management Protocols For Selected Non-Timber Forest Products (NTFPs)

ASEAN Guidelines for Sustainable Harvost and Resource Management

Protocols for Selected Non-Timber Forest



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#### Abstract

The ASEAN Guidelines for Sustainable Harvest and Resource Management Protocols for Selected Non-Timber Forest Products (NTFPs) presents protocols on sustainable resource management for five important NTFPs: forest honey, resin, fruits, rattan, and bamboo.

The Non-Timber Forest Products – Exchange Programme (NTFP-EP) was tasked by the ASEAN Senior Officials on Forestry (ASCP), specifically the AWG-FPD (ASEAN Working Group on Forest Products Development) to lead a consultative process to develop guidelines on sustainable harvest and resource management protocols for important NTFPs. Through a series of consultations and reviews with various experts in the region held in 2019 and 2020, these guidelines were made. It was then adopted by the 42nd ASEAN Ministers in Agriculture and Forestry (AMAF) last 21 October 2020.

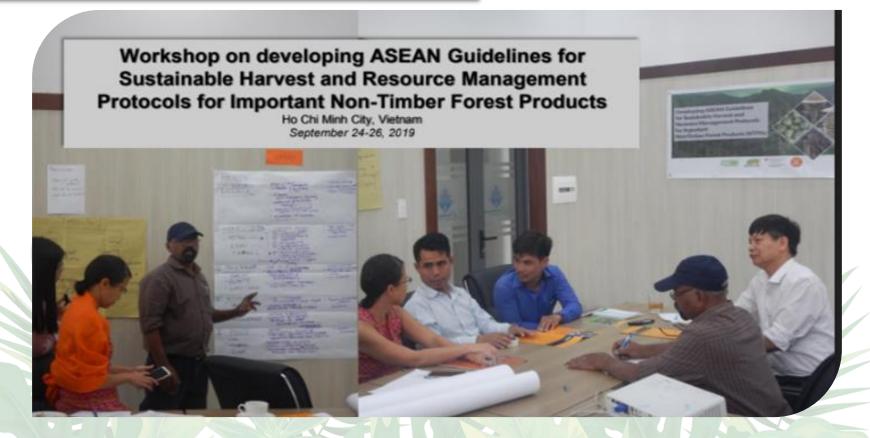
## **Objectives**

- To promote awareness on the value of sustainable resource management practices and the importance of sustainable harvest protocols
- To inform and guide the formulation of policies and programs by ASEAN
   Member States and other related institutions in ASEAN countries with regards
   to the sustainable management of NTFPs
- To enhance partnerships and cooperation among stakeholders in the ASEAN community through the establishment of a common reference for the sustainable management of NTFPs

#### **Methods**

- Literature review, consisting of publications and related documents on existing protocols and guidelines on NTFPs
- Meetings and workshops with participants from the academe, government, NGO's and forest communities
- Series of consultations with experts on 5 economically important NTFPs in the ASEAN region namely: honey, resin, fruits, rattan, and bamboo.

# consultations (2019-2020)





# NTFP Sustainable Harvesting and Resource Management Protocols



Bamboo





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NTFP Sustainable
Harvesting and Resource
Management Protocol

Resir





NTTAP EP Investigation |
ASIA

NTFP Sustainable Harvesting and Resource Management Protocol

Hone





NTEP EP Security products

NTFP Sustainable Harvesting and Resource Management Protocol

Fruits





https://ntfp.org/ir-publications/















# Apis cerana (Asian Honey Bee) Expert Consultation and Workshop













# ASEAN Forest Honey Producers Consultation & Collective Labelling Discussion





September 22, 2021



# Main threats to NTFPs – including honey

- Habitat loss conversion of forests
- Habitat degradation- invasive species
- Illegal clandestine trade
- Climate Change
- Tenure not being clear
- Long term ecological studies are not prioritise
- Sustainable Harvest is not prioritised or incentivised

# **Key Parameters to Assess Sustainable Harvests**

- Ecological parameters
- Harvest methods
- Raw produce quality
- Production and Processing Standards

#### Framework for the protocol

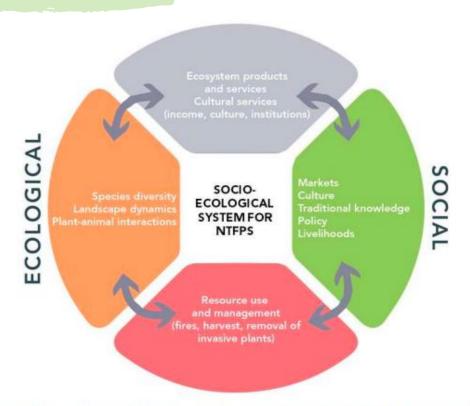


Figure 2. Socio-ecological components of an NTFP harvest system which are constantly interacting with each other. This representation is based on NTFP-EP field experiences and was developed in consultation with Prof. Tamara Ticktin, University of Hawaii.

#### Principles of the Socio Ecological monitoring framework

- Incorporating traditional ecological knowledge/TEK
- Community engagement and information sharing
- Participatory data collection
- Establishing multi stakeholder partnerships
- Adaptive Monitoring

## Honey





#### Introduction

- It is important to understand the social structure of bees and the architecture of their hives in establishing protocols for sustainable wild honey harvest.
- Honeybees produce honey by collecting nectar, pollen and dew from plants
- These are brought back to the hive and stored as food. It also feeds their brood in the hive
  - If not managed properly, honey harvesting can be potentially disastrous
- Threats: pesticides, changes in weather, unsustainable harvesting
- Common honey sources in Southeast Asia: Apis dorsata, A. cerana, A. florea, and A. adreniformis.

- Thumb rules
- socio-ecological indicators
- case boxes
- references
- Check shoot harvest number of shoots per month per year, which mostly has the highest number of shoots. This is especially important for stages focused.
- Condition of clurry clarity of outrolump and number of old bamboos, number of healthy shoots and dead shoots. This is important to determine suitable use, proper time of harvesting and bemboo productivity.
- A good chronology of records about the banbon harvesting from selection, coding, harvesting, carrying, stripping, and manufacturing is important.



Samboo garden

Bamboo Age Markings Towards Sustainable Harvest, Ngada, Flores, Indonesia

In 2012, Yayasan Barriou Leetian (YEL) or Bustanize Barrioo Foundston teams in Basil Industrial released a book called "Founds Related Bustanized Foreithy" or "Manufactural Bustanized Bustanized Bustanized Bustanized Bustanized Foreithy" or "Bustanized Bustanized The also on settlemble harvest elaborates the logs includes of the barriors of the particular of the barriors of long the log of the clumps has been called minds. The me bears of called a see mixed, the me bears of called a see mixed by logs. Usually again a best of logs of the called a see mixed by logs. Usually again a best barriors of a 4-years. 2. Adaption the barriors of a 4-years. 2. Adaption the barriors of the called a seed of the called

An optimal cluster is one that has 4 culms that are 1 years clid, 3 culms that are 2 years clid, 1 and 1 years clid, 1 is important to harvest the 3-year year clid, 1 is important to harvest the 3-year year mature tamboos first and the 1 year clids last.

in 2015 YBL, in collaboration with the company indichamboo, led by the Ministry of Forestry and Environment and supported by ITTO, joined the government program on establishing 1,000 anhobo villages both to residere expectably degraded conceptions and to lead to improved local incomes.

One of the villages in the program is Ubedolumolo Village, Bajawa Subdistrict, Ngada District, Flores Island, East Nusa Tenggara Province. They were managing the Dendrocalamus asper species. The Ngada district is known for its close links with bamboo spanning generations. Their local wisdom also supports bamboo cultivation. They identified and marked the ages of the culms in each clump with the planned year of harvest to make sure that only mature culms were harvested, leaving shoots and young stems intact. Alongside this sustainable barriboo management practice (HBL), the local community organization was also strengthered for more efficient management of the initiative, post harvest treatment was implemented and local industries promoted. Since then Ngada district has been declared by the Ministry of Environment and Forestry as the center of excellence for the 1,000 bemboo villages program as a platform to develop and strengthen the use of bamboo in indonesia through the communitybased bamboo industry. Since then there are stready 10 bamboo villages that have been used as centers of excellence and pilots for other regions, all in Ngada District. The sustainable temboo program is also supported with a Community Learning Center, Bamboo Field School and Bamboo Music School in Wogo village, Golewa sub-district.

In Laos, there are six genera of rattan: Celamus, Deamonorops, Korthalsia, Merialepis paradixia, Pectocomia, and Plectocomicpsis. There are 32 species, with five new near-Celamus laberelis, Calamus bimaniferus, Calamus evensii, Calamus oligostachys, Calamus solitaries.

In Perninsular Malaysia, there are about 107 species of rattan comprising 8 genera.
However, only 20 species have been identified to have market vatue. Among memare Calamus Manan, C. ornatus, C. turnidus, C. scipionium, and C. Caesius.

There are many firests to the statin industry. Unsustainable harvest practices have led to forest deposition and proclems in regimentor. Changes in ecological conditions have led to forest loss and additionable encountries and the hardward proclems in regimentation. The hardward proclems have led to the hardward Spoties. Retarn farmers and gatherers for the "President Plant List of Threatward Spoties. Retarn farmers and gatherers for the "President Plant List of Chrowshold and Chro

Woman IP member harvesting ratten



#### Thumb Rules for Rattan in Traditional Forest Communities



- Respect local oustoms and rituals related to rattan harvesting.
- Do not out support trees; if needed, climb or use other tools to out and pull the rattan.
- After harvesting rattan, clean the leaf litter, twigs, or grass that cover the shoots so that these can be exposed to sunlight and are able to grow well.
- Rattan clumps are important for breeding, they should not be damaged.
   After harvest, leaves and sheaths should be chopped and put on clumps.
- ✓ Do not damage seedings.
- Do not harvest rattan canes that are fruiting in low density areas.
- Pattan harvesting is recommended in the dry season, so that stems dry quickly, if rattan is harvested during the rainy season, longer drying time is required to social being damaged by fungua leads. If the rainy season is longer than six months, however, other harvesting is done the middle of the rainy season findowesig.
- Use appropriate tools and observe safety.
- Pattan is cut 1 to 1.5 meters from the ground and stems are left bent down to prevent fungus from damaging other stems (atthough in some countries, rattan is cut 20 cm from the ground; practices differ depending on the species.
- Length indicator depends on the market demand and according to the standard (indonesia).
- Observe proper and sustainable processing and treatment methods for rattan.

#### **Thumb Rules for Honey in Traditional Forest Communities**

- Define colony or area ownership
- Do not destroy the habitat of bees, including nesting sites and foraging areas
- Ensure that colonies are a certain distance away from chemical intensive farming activity or sources of pollutants such as haze
- Use appropriate sustainable harvesting tools and methods
- Harvest only mature colonies for honey
- Harvest only the honey part of the comb, leaving the brood intact
- Brood collection is only for community consumption and not for sale. To ensure sustainability, a percentage of broods should always be left behind.



#### **Thumb Rules for Honey in Traditional Forest Communities**

- Harvest honey only on dry days so as to reduce water content
- Do not harm the bees while collecting honey from the hive.
- Cut honey combs and drain the harvested honey; never squeeze the combs.
  - O Honey should be pre-filtered in the forest if it cannot reach the processing center in a few hours
- Honey should be clean and meet the standards for food and health
- Respect local customs and rituals related to honey harvesting
- Advocate for supportive policies and programs for sustainable forest honey management and trade



to ensure the sustainability and quality of forest honey

#### 1. Ecological

- The forest has an abundance of nesting trees and nectar sources
- There is a stable or increasing number of colonies in a particular area
- Sacred sites are secured
- There is regular flowering of pollen and nectar sources
- Occurrence of pollination
- Climate patterns such as rainfall and humidity are stable

#### 2. Harvest

- Only mature colonies are harvested wide, thick and visible comb, capped or sealed honey
- Only honey part is removed from the comb
- Harvesting is done on dry days
- Appropriate harvesting methods, tools and equipment are used

to ensure the sustainability and quality of forest honey

#### 3. Trade and Markets

- Honey is clean and meets health and food standards
- There is no brood for sale
- Honey can be traced to its source
- Honey properties indicate that it has been harvested properly

#### 03 Trade and Markets

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to ensure the sustainability and quality of forest honey

#### 4. Institutions

- Local or traditional organizations are engaged in collective trade
- There is an effective community institution that manages honey resources
- Community discussions are done during honey collecting season
- Social networks or partnerships exist between harvested and other actors in the value chain



to ensure the sustainability and quality of forest honey

#### 5. Policies and regulations

- Policies for harvest and harvest areas exist
- The ownership of colonies is defined
- Harvesters have permits or licenses to harvest and transport honey
- Policies for protecting the forest exist
- There are enabling local, national and international policies for Asian honeybees in such areas as taxes, partnerships, honey standards
- Local, national and international platforms such as trade certification bodies advocate for favorable policies



#### Socio-ecological (cont.)



#### **06 Monitoring Methods**

- Resource mapping, including identification of nesting trees
- Number of colonies observed versus number of colonies harvested
- Community permanent plots recording number of colonies, number of trees with colonies, flowering trees before, during, and after each harvest season.
- Pre- and post-harvest monitoring through inspection of peer groups of non-collecting hunter group within three days after each harvest
- Community-level associations assess the quality of the honey.
- Records of where the honey is from, what are the nectar sources, who collected, and other relevant information
- Observance of adherence to harvest protocols
- Community discussions during honey collecting season
- Internal control systems and participatory certification processes checking traceability and sustainability
- Reports on progress on enabling policies for harvest and trade of honey
- Maintain observation records about animals and birds that are dependent on the bees, honey and combs.

# Socio-ecological (cont.)

#### **07 Climate Adaptation**

- Monitor if climate-related factors such as warmer temperature and stronger typhoons affect the flowering patterns of nectar sources and the migration and foraging patterns of bees.
- Ensure that traditional practices are still sustainable in light of changes in climate.
- Monitor if bee populations are declining.
- Monitor the use of chemicals in the vicinity, particularly pesticides.
- Record if honey has higher water content than previous years despite use of proper harvesting methods.



## **Recommendations for Honey**

- Honey Bee Colonies in the wild need more protection and research
- Local language guide books on sustainable honey harvesting.
- Harvesters link up with green markets that value the ecosystem
- Support the traditional ecological knowledge of communities

#### **Acknowledgements**

- The ASEAN Senior Officials in Forestry (ASOF), for engaging NTFP-EP to lead this project, with particular support from Dian Sukmajaya, Senior Officer Food, Agriculture and Forestry, of the ASEAN Secretariat who has advised us through the writing process and Alfi Syakila of the ASEAN Working Group on Social Forestry (AWG-SF)
- The Swiss Agency for Development and Cooperation (SDC), through the ASEAN-Swiss Partnership on Social Forestry and Climate Change (ASFCC), for the financial support in developing these guidelines
- The Swedish Society for Nature Conservation (SSNC), for their support through the Linking People and Forests project.
- For the experts that provided inputs, advice and guidance through the consultation and writing process namely:
- 1. Robert Leo, Keystone Foundation, India
- 2. Ms. Khin Yimon Hlaing, Ministry of Natural Resources and Environmental Conservation of Myanmar Forest Department, Myanmar
- 3. Dr. Romeo Lerom, Western Philippines University, Aborlan, Palawan, Philippines
- 4. Mr. Edio Domino, Samahan ng mga Palawano sa Amas Brooke's Point (SPABP), Brooke's Point, Palawan, Philippines
- 5. Mr. Yep Lav, NTFP-EP Cambodia
- 6. Mr. Khorn Sokhom, Community Based wild Honey Enterprise (CBHE), Cambodia
- 7. Mr. Eang Hourt Khou, Office of the Preah Vihear Temple National Authority, Cambodia
- 8. Wazar, Jaringan Madu Hutan Indonesia (JMHI), Indonesia
- 9. Edison, WATALA(Friends for Nature and Environment), Lampung, Indonesia
- 10. Mr. Soutnhone Ketphanh, Laos
- 11. Mr. Siwakorn Odochao, Lazy Man Coffee, Thailand
- 12. Dr. Phan Van Thang, Non Timber Forest Product Research Centre (NTFPRC), Vietnam
- 13. Dr. Phung Huu Chinh, Mountainous Bee Development Centre (MBDC), Vietnam
- 14. Dr. Luu Hong Truong, Southern Institute of Ecology (SIE) Vietnam Academy of Science and Technology, Vietnam

- 15. Ms. Lan Truong, Southern Institute of Ecology (SIE) Vietnam Academy of Science and Technology, Vietnam
- 16. Ms. Trinh Thi My Dung, NTFP-EP Vietnam
- 17. Ms. Nguyen Thi My Hanh, NTFP-EP Vietnam
- 18. Dr. Nguyen Quoc Dung, Forest Inventory and Planning Institute (FIPI), Vietnam
- 19. Mr. Luong The Dung, Non-Timber Forest Product Research Centre (NTFPRC), Vietnam
- 20. Dr. Jamaludin Malik, Forest Products Research Development Centre (FPRDC), Indonesia
- 21. Dr. Elizabeth Widjaja, Indonesia
- 22. Ms. Jasni, MSi Forest Products Research Development Centre (FPRDC), Indonesia
- 23. Dr. Paulus Matius, Universitas Mulawarman Dayak, Kalimantan, Indonesia
- 24. Dr. Himmah Rustiami, Research Center for Biology Indonesian Institute of Sciences, Indonesia (RCB-LIPI)
- 25. Dr. Mohd Khairun Anwar Uyup, Forest Research Institute Malaysia (FRIM)
- 26. Mr. Bansa Thammavong, Forest Science Research Center, National Agriculture and Forestry Research Institute (FSRC-NAFRI)
- 27. Dr. Rosalie Mendoza, University of the Philippines, Los Baños (UPLB)
- 28. Ridzky Sigit, NTFP-EP Indonesia Board Chairperson
- 29. Ms. Natasya Muliandari, NTFP-EP Indonesia

We also appreciate the assistance from the following for their support through documents review, referrals, and coordination:

- Dr. Ramon Razal and Dr. Armando Palijon of the University of the Philippines Los Baños (UPLB)
- Department of Science and Technology Forest Products Research and Development Institute (DOST-FPRDI) Philippines
- Norllita Colili of NTFP-EP Philippines
- Dr. Oupakone Alounsavath and Mr. Phonephanh Luangaphay
- Ricky Alisky Martin of Sabah Forestry Department in Malaysia
- Dr. Ei Ei Swe Hlaing and Dr. Thaung Naing Oo of the Forest Research Institute, Myanmar
- Dr. Vongvilay Vongkhamsao of Lao PDR Forest Science Research Center National Agriculture and Forestry Research Institute (FSRC-NAFRI)

We are grateful for the authorsof the guidelines, Maria Cristina S. Guerrero, Dr. Anita Varghese, Tanya Conlu and Diana San Jose. Thank you to Nita Roshita for workshop documentation. Thank you to Yasmin Arquiza (editor)

# THANK YOU

