



NON-TIMBER TREE PRODUCTS

**A partial inventory of
products available in the
Mount Cameroon area**

NRI Socio-economic Series 11

V. Papadopoulos with Ann Gordon

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Foreword

This series is based upon work carried out under the socio-economics and related research programmes at NRI. Its purpose is to provide an easily accessible medium for current research findings. Whilst it is hoped that the series will be of interest to those concerned with development issues worldwide, it may be of particular relevance to people working in the developing countries.

The topics covered by the series are quite diverse, but principally relate to applied and adaptive research activity and findings. Some papers are largely descriptive, others concentrate on analytical issues, or relate to research methodologies.

The aim is to present material in as straightforward a fashion as possible so that it can reach a wide audience. We are interested in the views and opinions of readers and welcome any feedback to this series.

Alan Marter
Social Sciences Research Manager

Summary

The value of tree-growing on tropical farms, for subsistence uses, commercial sale and environmental stability, has been increasingly argued in recent decades. But while impressive progress has been made in identifying a wide range of tree production systems, there has been very little associated research on the market potential of these systems. The failures of many sustainable agriculture, agroforestry, and community forestry programmes have now been attributed to 'market failures'.

The Natural Resources Institute is collaborating with the International Food Policy Research Institute on a project funded by the Overseas Development Administration (UK), to explore domestic market potential for tree products from farms and rural communities. Field work is being conducted in Cameroon and Brazil.

This partial inventory of non-timber tree products (nttps) is the product of the initial field work in 1995 in South West Province in Cameroon, where Mount Cameroon is located - an area which is recognised globally for its biodiversity. The inventory was derived from visits to markets, and villages bordering the forest, interviews with key informants (particularly traders and forestry professionals) and from secondary sources. Approximately 300 products available in the Mount Cameroon area are listed by their local name. Additional information is provided, where available, on latin names, end use, product source, seasonality, location of markets and availability in markets.

The inventory has been reproduced now in response to the growing interest in non-timber tree products, and particular interest in the highly biodiverse flora of the Mount Cameroon area.

Introduction

BACKGROUND

The value of tree-growing on tropical farms, for subsistence uses, commercial sale and environmental stability, has been increasingly argued in recent decades. But while impressive progress has been made in identifying a wide range of tree production systems, there has been very little associated research on the market potential of these systems. The failures of many sustainable agriculture, agroforestry, and community forestry programmes have now been attributed to 'market failures'.

The Natural Resources Institute is collaborating with the International Food Policy Research Institute on a project funded by the Overseas Development Administration (UK), to explore domestic market potential for tree products from farms and rural communities. The project has the following objectives:

- (a) to highlight the constraints to the development of markets for traditional and emerging agroforestry and forestry products;
- (b) to assess markets, and market channels for tree products, in two case study areas, identifying key constraints and opportunities for future market development; and
- (c) to develop practical methodologies to assess markets for farm tree products.

Field work has been conducted during 1995-96 with NRI working in Cameroon and IFPRI working in Brazil.

THE INVENTORY

This partial inventory of non-timber tree products (nttps) is the product of the initial field work in South West

Province in Cameroon, where Mount Cameroon is located – an area which is recognised globally for its wealth of biodiversity. The inventory was derived from visits to markets, and villages bordering the forest, interviews with key informants (particularly traders and forestry professionals) and from secondary sources. (Carter, Jeanrenaud and Laird's work were particularly important). NRI researchers worked with staff of the Mount Cameroon Project who provided key expert inputs. The goal of the Mount Cameroon Project is to conserve the area's biodiversity through participatory natural resource management, with support from the Government of Cameroon, ODA, GTZ, and the Global Environmental Facility/World Bank.

Approximately 300 products available in the Mount Cameroon area are listed by their local name. Additional information is provided, where available, on latin names, end use, product source, seasonality, location of markets and availability in markets. The list was compiled originally as a baseline from which products could be selected for more detailed research, according to certain criteria such as location of markets and source of production. It differs from a botanical inventory in its purpose (i.e. to understand the markets for nttps) and, as a consequence, in the information collected.

The starting point for the inventory was information, particularly local names, provided by local people. As field work progressed, more and more information became available and the gaps were gradually filled in. However, this is an on-going process and readers will note that information gaps remain for many products. NRI hopes to update subsequent editions of the inventory with information provided by readers and others familiar with the area, and with further information from the remaining field work in Cameroon.

The inventory has been reproduced now in response to the growing interest in non-timber tree products, and

particular interest in the biodiverse-rich flora of the Mount Cameroon area.

ON-GOING RESEARCH ON NON-TIMBER TREE PRODUCT MARKETS IN CAMEROON

Compilation of the NRI inventory was followed by analysis of market chains. The latter were used to categorise products and identify a number of key issues, which are being explored through case studies. The issues identified were:

- (a) the influence of market factors on domestication;
- (b) the factors affecting the extent and location of value added; and
- (c) the importance of non-timber tree products to household income, compared with income derived from other sources.

It is intended that the project results will inform the design and conduct of forestry and agroforestry projects. An understanding of each these issues can be translated into recommendations for forestry (product) projects.

The case study products are Eru (*Gnetum* spp.), Bush Mango (*Irvingia gabonensis*), Njangsang (*Ricinodendron heudelottii*) and cola (*Cola nitida*). These were chosen primarily because they are among the most commonly traded nttps in the region, and also because they all require some form of processing prior to consumption. Cola was chosen because it is a forest product that has already been extensively domesticated and may provide some lessons on what gives an NTP market potential.

Most of the field work has taken the form of informal surveys, to follow the market chains, and village-based group interviews. With field work not complete at the time

of publication, the results reported here must be regarded as preliminary.

The evidence to date suggests that domestication is largely farmer-driven in response to growing market opportunities and concerns over access rights to forest resources. Most processing is carried out by the farmer/gatherers to increase the value for weight of the products and improve their durability. Because most nttps are seasonal, they are not considered by many households to be of major economic importance compared to the sale of food crops and traditional cash crops such as cocoa, coffee and palm oil. In contrast to the large-scale wholesalers, many nttp market retailers consider marketing to be only a part-time activity undertaken to supplement income earned from farming.

Field work will be completed by the end of 1996, following which two further publications in this series are planned: one on appropriate marketing research methodologies for nttps, and the other focused more specifically on the results of the field work in Cameroon.

The Inventory

Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Aditang(Ibo)	<i>Lasianthera africana</i>			Leafy vegetable		
Afeke				Medicine		
Akom / Jombe	<i>Terminalia superba</i>			Firewood, medicine		
Alligator pepe	<i>Aframomum melagueta</i>	FC	E	Medicine (fruit)		2
Apple (local)	<i>Eugenia jambos?</i>	C	P			
Atama leaves	<i>Heinsia crinita</i>	F	E	Leafy vegetable		3
Avocado	<i>Persea americana</i>	C	E	Fruit, boundary marker		
Awoma		F				
Aysakokah				Medicine		
Bahama grass		C	P	Medicine		3
Banana	<i>Musa sp.</i>	FC	E	Fruit, boundary marker		3
Banga				Medicine		
Bebe	<i>Monodora brevipes</i>			Thickening soups		
Bekeku		F	S			1
Belli fruit		FC	S			2
Bitter cola	<i>Garcinia kola</i>	F	E	Spice, medicine	Mar / April	3
Bitter leaf		FC	E	Vegetable		3
Bomboku				Nuts, seeds		
Bongolo mbongo	<i>Aframomum citratum</i>	FC	P	Flavouring for soup/ medicine		3
Bongu				Firewood		
Buma	<i>Bombax or Ceiba</i>	F	S	Cotton stuffing		2
Bush carrot		F	S			1
Bush mango draw	<i>Iringia gabonensis</i>	F	E		Jul - Sept	3
Bush mango sweet		F	S	Spice		2
Bush onion - seed	<i>Afrostryrax lepidophyllus</i>	F	E	Spice		3
Bush onion - bark		F	P	Spice		2
Bush pepe	<i>Piper guineese</i>	FC	E	Spice, flavouring for soups	Oct - Feb	3

* Cultivated, C; Forest, F; Forest and cultivated, FC. † Subsistence, S; Sold only within South West Province, P; Sold elsewhere, E.
‡ Abundance in local markets where: rarely available, 1; sometimes available, 2; often available, 3.

Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Bush plum		FC	S	Fruit		1
Bush rope		F	S	Building material	All year	
Bwassa leaf		F	S	Medicine		1
Bwazazo / Basaso				Firewood		
Bwembi				Fruit		
Calavanje				Vegetable		
<i>Canarium schweinfurtii</i> resin		F	E	Medicine		
<i>Cancho kamerounensis</i> roots				Medicine		
Cashu		FC	S	Spice	Jun / Jul	
Change blood		FC	S	Edible fruit		1
Chewing sticks (from <i>Garcinia</i>)	<i>Garcinia mannii</i> <i>G. brevis pedicellata</i>	F	E	Personal hygiene	All year	2
Chunku	<i>Uvaria</i> spp.?			Flavouring for soup		
Cocoa	<i>Theobroma cacao</i>	C	E	Firewood		
Coconut	<i>Cocos nucifera</i>	C	E	Fruit, boundary marker		2
Cola leaves	<i>Cola nitida</i>	F	E	Medicine		2
Cola tree	<i>Cola nitida</i> / <i>C. acuminata</i>	FC	E	Boundary marker, firewood		3
Country onion (flat seed)	<i>ngaikai</i>	F		Thickening soups (seed)	Jul - Sept	
Ebebwe				Medicine		
Ebuea		FC	S	Medicine		1
Ebwebwe	<i>Macaranga occidentalis</i>			Wrapping leaf		
Efefe				Firewood, medicine		
Efondo	<i>Strombosia glaucescens?</i>			Boundary marker		
Efongi	<i>Pterygota macrocarpa</i>			Firewood		
Efum/Ebaba/Esekeseke	<i>Tetrapleura tetraptera</i>	F	E	Thickening soups, spice	Mar / Apr	2
Egbe-egbe				Mushroom		
Egebwe / Egbegbe	<i>Neoboutonia</i> spp.			Firewood		
Ekenju				Medicine		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Ekoh / Ekowo	<i>Brucea guineensis</i>			Firewood		
Ekong				Medicine (bark)		
Ekongbong (fluted pumpkin)	<i>Telfairia occidentalis</i>	C	E	Leafy vegetable		3
Ekumbi / Aykumbeh	<i>Ficus chlamydocarpa?</i>			Firewood		
Elambah				Boundary marker		
Elinguwe				Firewood		
Eliva-liva				Medicine		
Eluluwa	<i>Kalanchoe</i>			Medicine		
<i>Enantia chloranthea</i> bark		F	E	Medicine		1
Eru	<i>Gnetum africanum</i>	F	E	Leafy vegetable	All year	3
Esambah	<i>Pychanthus angolensis</i>			Medicine		
Esangah				Medicine		
Esosoamaija				Medicine		
Esukusuku	<i>Erythrina addisoniae</i>			Boundary marker		
Eteveh				Wrapping leaves		
Evundeh				Mushroom		
Ewoke				Medicine		
Ewowo	<i>Macaranga occidentalis</i>			Firewood, medicine		
Ewu-la-fako	<i>Laportea aestuans</i>			Medicine		
Eylengue				Firewood		
Fembi						
Fever / Lemon grass	<i>Cymbopogon citratus</i>	FC	S	Medicine		1
Fogam				Firewood		
Futu / breadfruit	<i>Artocarpus communis</i>	F				
Gbangu	<i>Bridelia micrantha</i>			Firewood, medicine		
Gospel				Boundary marker		
Guava	<i>Psidium guajava</i>	C	P	Fruit, boundary marker		2
Hibiscus	<i>Hibiscus esculentus</i> <i>rosa-sinensis</i>	C	S	Boundary marker		1
Hot alligator pepe		FC	E	Medicine	Dry season	3
Ibeya (cam wood)	<i>Pterocarpus</i> spp.	F	E	Medicine (wood); carving		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Ifanja				Medicine		
Ifondoh	<i>Stombosia</i> spp.			Firewood		
Ikemi				Medicine		
Ikoko	<i>Dracaena arborea</i>			Boundary marker		
Inasso						
Inunu (dried mushroom)				Food		
Inyangiyangi				Medicine		
Iroko	<i>Chlorophora (Milicia) excelsa</i>	F	E	Medicine, boundary marker		1
Isaka	<i>Albizzia gummifera</i>	F	E	Medicine, firewood		1
Isaume				Firewood		
Isele				Firewood		
Isuse				Medicine		
Itondo-tondo	<i>Aframomum</i>			Medicine		
Itongongo	<i>Rauwolfia vomitaria</i>			Boundary marker, firewood, medicine		
Ivengia						
Iveve	<i>Dracaena deisteliana</i>			Boundary marker, firewood		
Iwongongo				Boundary marker		
Jackfruit	<i>Artocarpus heterophyllus</i>			Boundary marker		
Jaija me Njomba				Medicine		
Jama nijana						
Jato	<i>Piptadeniastrum africanum</i>			Firewood		
Jenge				Boundary marker		
Jombeh	<i>Terminalia superba</i>			Firewood		
Jondinga	<i>Alchornia floribunda</i>			Firewood		
Jososa	<i>Alchornia laxiflora</i>			Medicine		
Jupombamboli	<i>Pollia condensata</i>			Medicine		
Kanja	<i>Rauwolfia macrophylla</i>			Firewood, medicine		
King stick		F	E	Medicine		1
Kingne (Mankon)		FC		Soup		
Komila				Edible fruit		
Krekre	<i>Corchorus</i> spp.	FC		Leafy vegetable		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Kucha				Sponge		
Kungang/wokaka				Medicine		
Kwanju				Flavouring for soup		
Launga				Medicine		
Lavhe				Vegetable		
Layzongu						
Leeohmah						
Leetinde				Medicine		
Leetulangbwah				Vegetable		
Lemon	<i>Citrus limon</i>	C	E			2
Lezeyangi						
Lgonde				Medicine		
Liambamba				Medicine		
Lihsengi/Umbrella tree	<i>Musanga cercropoides</i>	F	S	Firewood		
Lijoke	<i>Funtumia elastica</i>			Firewood		
Linenge	<i>Dracaena arborea</i>			Boundary marker, medicine		
Lisambi	<i>Xylopsia africana</i>			Firewood		
Lisavou				Medicine		
Litoh la mbwah	<i>Emilia coccinea</i>			Medicine		
Litu	<i>Ficus capensis</i>			Firewood		
Litutu	<i>Raffia hockerii</i>			Boundary marker		
Liwoko						
Liwunjah				Medicine		
Lome isa faya na ewule				Medicine		
Longoso	<i>Ficus exasperata</i>			Firewood		
Lunga				Medicine		
Lyanga-angu	<i>Dracaena arborea</i>			Boundary marker		
Mabwezi						
Macoba	<i>Studtia stipulata?</i>			Firewood		
Magamanjombi (red leaf)	<i>Eremomastax polysperma</i>	FC		Medicine		
Mahogany	<i>Entandrophragma</i> spp. or <i>Khaya</i> spp.	F	E	Firewood, medicine		1

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Makoy				Boundary marker		
Mangalla				Medicine		
Mango		C	S	Firewood		
Manjueli leaves						
Manyingeh				Boundary marker		
Masavo/Bush tea				Medicine		
Massepo	<i>Vernonia anthelmintica</i>	C	S	Medicine		1
Matanda		F	S	Firewood		1
Matu						
Mazi mazi				Medicine		
Mbako	<i>Spathodea campanulata</i>			Boundary marker		
Mbanga/Mwanga				Firewood		
Mbangogo						
Mbava				Firewood, medicine		
Mbofo				Rope		
Mbomboko						
Mbongi	<i>Alchornea</i> spp. <i>Cassia alata</i>			Medicine		
Mbow				Firewood		
Mbwelle-wondondo				Medicine		
Medicinal plants					Oct - April	
Meese				Edible fruit		
Milk stick		F	S/P	Firewood		1
Mobwe						
Moegbve				Vegetable		
Moejoejoe				Nuts, seeds		
Moelakakalaka				Vegetable		
Moetulu				Medicine		
Moevatah				Medicine		
Moganga/Kaluba stick	<i>Spondias mombin</i>			Boundary marker		
Mohsahsah				Firewood		
Mojojo				Vegetable		
Mokaka				Firewood		
Mokolikoli				Boundary marker		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Moloyko						
Monganga	<i>Spondias mombin</i>			Medicine		
Mongene				Boundary marker		
Mongossi/ Iron wood	<i>Lophyra alata</i>	F	E	Firewood		3
Monja	<i>Ficus mucosus</i>			Firewood		
Monkey kola		F	S	Wood for flooring, building, twigs for chewing sticks, fruits dried & oil extracted for food, medicine		1
Mosenge	<i>Macaranga hurifolia</i>			Firewood, medicine		
Moseseni				Cane baskets		
Mosongosongo				Medicine		
Mosso Mosombe				Medicine		
Motim-limbi	<i>Kigelia africana</i>			Medicine, boundary marker		
Mukamu	<i>Erythrina vogelli</i>			Boundary marker, firewood, medicine		
Mukosa				Medicine		
Mundanuwani				Medicine		
Munga				Medicine		
Mushrooms				Food	Oct	
Mwau				Boundary marker		
Mwende mopkai				Medicine (roots)		
Namayoweh				Medicine		
Ndanda				Medicine		
Ndo	<i>Vernonia anona</i>			Boundary marker		
Ndole		C	E	Vegetable		3
Ndombe				Medicine		
Ndombo				Leaves for soap		
Ndomboh				Medicine		
Ndongo	<i>Carappa procera</i>			Raffia ropes		
Ndototo	<i>Sterculia tragacantha</i>			Boundary marker, medicine		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Ngambo				Medicine		
Ngami sewo				Firewood		
Ngohnoh				Medicine		
Ngolle						
Ngongi	<i>Ficus kamerunensis</i>			Firewood		
Ngote				Mushroom		
Ngowu				Boundary marker		
Njanja-isiu	<i>Gambeya gigantea?</i> <i>Aningeria robusta?</i>			Firewood		
Njansanga	<i>Ricinodendron heudelotii</i>	F	E	Spice	Mar / April	3
Njengu	<i>Milletia</i> sp.			Firewood		
Njiko				Medicine		
Njoni				Firewood		
Njososo				Boundary marker		
Njufa				Flavouring for soup-root		
Nkanja				Medicine		
Nsanga a mokosa				Medicine		
Nsongo stems				Mats		
Ntah				Medicine		
Numjuwhelee				Medicine		
Nyaka liambo				Medicine		
Nyong-nyonge				Medicine, firewood		
Oha				Boundary marker		
Onge				Rope		
Orange	<i>Citrus aurantium</i>	C	E	Boundary marker		
Palm oil	<i>Elaeis guineensis</i>	C	E			3
Palm wine		FC	S	Drink	All year	2
Pawpaw	<i>Caria papaya</i>	C	P			2
Phembi						
Plantain		C	E	Boundary marker		3
Plum	<i>Spondias</i> sp.	FC	E	Boundary marker		1
Raffia palm		F	S	Drink		1

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Rattan (molongo, moseseni)		F	S E	Weaving	All year	1
Sasava						
Sieke				Medicine		
Soft grass				Mattresses		
Soppo-Ndene				Medicine		
Soursop	<i>Annona muricata</i>	C	S			
Spondia		F	S	Medicine		
Sweet alligator pepe (mososei)	<i>Aframomum hanburyi?</i>	FC	E	Medicine, fruit for flavouring soups?	Dry season	2
Sweet bitter leaf	<i>Vernonia insignis</i>	FC	S	Leafy vegetable		
Tamchu				Thickening for soups		
Tatue				Medicine		
Tekah/ Taka				Boundary marker		
Tomato (wild)		F	S			
Tondo / Afrommumu		F		Fruit		
Tondu				Spice		
Two fingers	<i>Copaifera mildbraedii</i>			Medicine		
Umanga				Firewood		
Umbananga				Firewood		
Umlenge				Firewood		
Umsangu				Firewood		
Valaria				Medicine		
Vekeku						
Veunette						
Wagua				Boundary marker		
Water leaf	<i>Talinum triangulare</i>	FC		Leafy vegetable		1
Watuwa tree: gum and ngaiya	<i>Canarium schweinfurthii</i>			Medicine (gum), food (ngaiya)		
Wbonji ya				Medicine		
Wendomba leaves						
Whekaku				Fruit		
Whembi	<i>Treculia africana</i>					
Wheyomah				Fruit		

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Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Wheyzongu				Wrapping leaf		
Whezay				Medicine		
Woanga-anga				Firewood		
Woangu-angu						
Wocangu				Vegetable		
Wogondo				Firewood		
Wohngoh	<i>Fagara</i> spp.			Firewood		
Wohwinga-winga				Firewood		
Wokaka	<i>Khaya</i> spp.			Firewood, medicine		
Wokeke	<i>Allophylus</i> spp.			Firewood		
Wokeku	<i>Myrianthus arboreus</i>			Firewood		
Wokuka	<i>Alstonia boonei</i>			Firewood, medicine		
Wokuku				Medicine		
Wololoh	<i>Enantia</i>			Medicine		
Wolule/Woloulay	<i>Kigelia africana</i>			Boundary marker, medicine		
Wombah/Drummer stick	<i>Cordia melinii</i>	F		Medicine, boundary marker, firewood		
Wondelelu	<i>Cordia aurantiaca</i>			Boundary marker		
Wonge				Rope		
Wongoh	<i>Zanthoxylum</i>			Medicine		
Wongolo/mango	<i>Mangifera indica</i>			Firewood		
Wonjongi	<i>Poga oleosa</i>			medicine		
Wosa sawa						
Wosangu (huckleberry)	<i>Solanum nigrum</i>	FC		Leafy vegetable		
Wotangu	<i>Prunus africana</i>	FC	E	Medicine		
Wotolongo/ Red liquid tree	<i>Harungana madagascariensis</i>			Medicine, firewood		
Wowangenga				Firewood		
Wowokolo						
Wowungu	<i>Sorindiea arboreus</i>			Firewood		
Woyoyo				Medicine		
Wozangu	<i>Solanum</i> spp.			Vegetable		

* Cultivated, C; Forest, F; Forest and cultivated, FC. † Subsistence, S; Sold only within South West Province, P; Sold elsewhere, E.

‡ Abundance in local markets where: rarely available, 1; sometimes available, 2; often available, 3.

Product Name (Local)	Latin Name	Product Source*	Final Market Destination†	Product End Use	Product Seasonality	Frequency in Markets‡
Wrapping leaves (Nsongo)						All year
Wungu	<i>Pseudospondias microcarpa</i>			Boundary marker, firewood		
Yonga-mwese				Firewood		
Yumba-enge				Firewood		
Zau		F	S	Wrapping leaf		2

* Cultivated, C; Forest, F; Forest and cultivated, FC. † Subsistence, S; Sold only within South West Province, P; Sold elsewhere, E.

‡ Abundance in local markets where: rarely available, 1; sometimes available, 2; often available, 3.

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