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A VARIETY COLLECTION OF NUT TREES
AND FRUIT TREES IN VANUATU

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Illustrations by ALFREDA MABON LALA

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- All the men and women who are taking care of the collection, in the islands
- Local people of the visited area to have share with us the knowledge they have of edible fruit and nut trees.
- Dr Matthew Jebb (Director, Christensen Research Institute, PNG) for his help in determining Barringtonias
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We would like also to thank ORSTOM and the French Ministry of Foreign Affairs to have supported and funded the project.

The names and description of all the cultivars collected during the project is given in a floppy disk (DBaselli plus) which can be obtain from:

- Department of agriculture
- Department of forestry
- Department of National Planning
- Environnement Unit

The botanical description and the measurement of all the trees tagged during the project will be given further

INTRODUCTION

The project Trees of The Islands: traditional cultivation of fruit trees in Vanuatu, was initiated in 1991 by ORSTOM and the Department of Agriculture of Vanuatu in order to investigate the potential of local fruit trees and nut trees as smallholder based cash crops.

This project was divided into two main parts:

1. Identification and collection of varieties of Navele (*Barringtonia spp*), Naduledule (*Burckella spp*), Nangai (*Canarium spp*), Nakatambol (*Dracontomelon vitiense*), Namambe (*Inocarpus fagifer*), Nandau (*Pometia pinnata*), Naus (*Spondias dulcis*), Nagavika (*Syzygium malaccense*) and Natapoa (*Terminalia catappa*). Identification of other edible species of fruit trees or nut trees.
2. Assessment of traditional maintenance and protection of the edible fruit trees and nut trees ; Understanding how arboriculture overall is integrated to other production methods in terms of space distribution, work time, production and consumption.

The main purpose of this project is to find the best cultivars for the development and to coordinate this development with the conservation of the biodiversity of the country. This plant stock represents a rich heritage for Vanuatu and some morphotypes are already rare and endangered. For this reason, all the varieties observed, in each island we visited, were tagged with a reference number and carefully recorded. In each island a person has been appointed to look after the established alive collection .

This document is a technical report on the variety collection of fruit trees and nut trees established through out the islands of Vanuatu. The description of the species studied and their varieties has been given in a previous report¹ and will not take place in this document. Instead we shall give:

1. The local places where the collection is situated

¹. WALTER A. and SAM C. (1992): L'Abre dans les îles, exploitation traditionnelle des arbres fruitiers à Vanuatu: rapport intermédiaire. Notes Techniques N°12; ORSTOM, Port-Vila

2. The name of the persons responsible for the collection

3. The full range of the varieties recorded for each species (tagged or not)

4. The list of the best cultivars for the development of any cash crops.

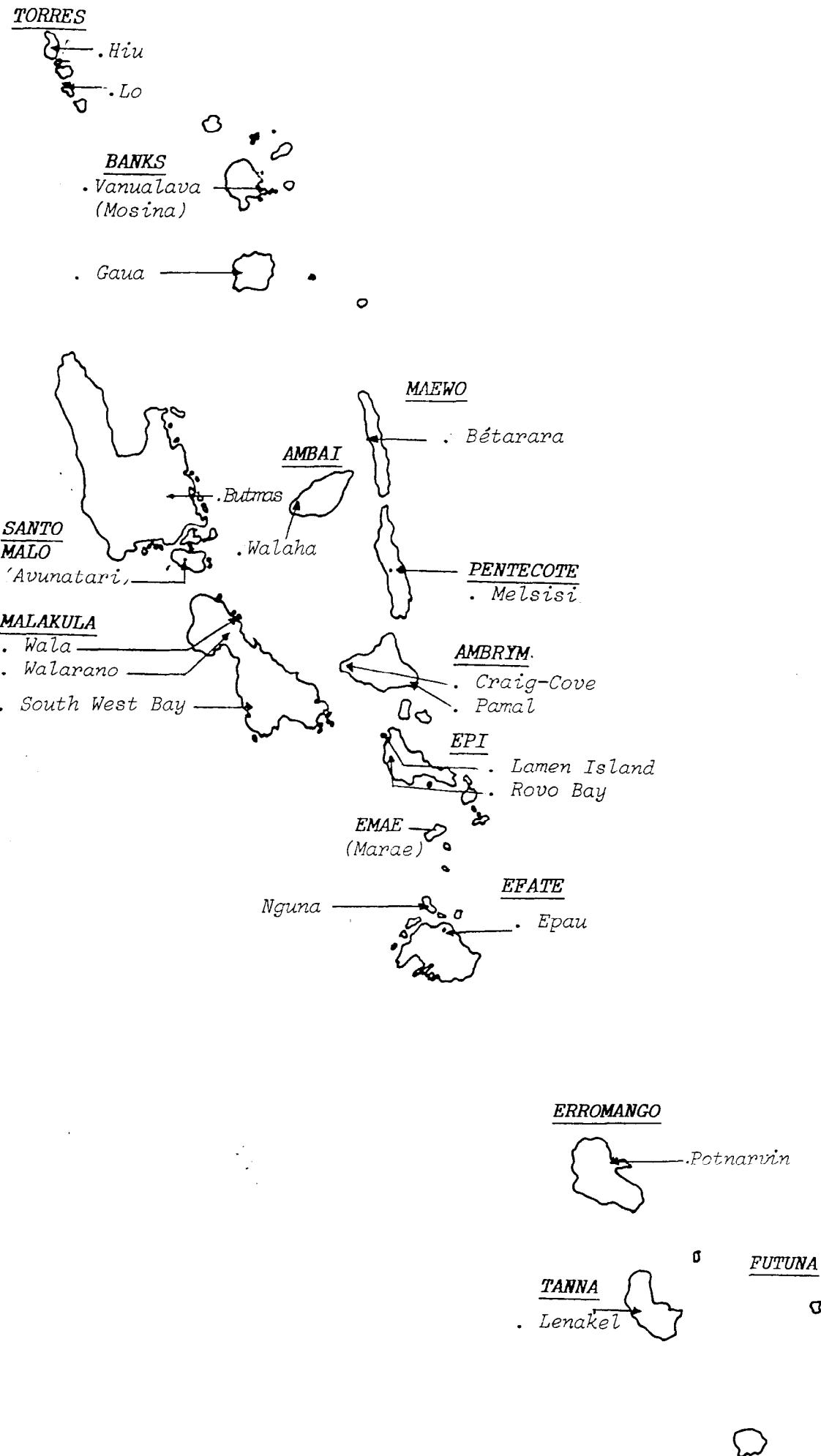


Figure 1 : Areas visited during the survey

CHAPTER 1: LOCALISATIONS OF THE VARIETY COLLECTION

Twenty areas were visited during the years 1991, 1992, 1993 and 460 trees tagged (Figure 1 and 2). The variability of data recorded in each island depends upon the availability of fruits at the time, the traditional knowledge of trees varieties and the existence of such varieties. In some islands the farmers are able to recognize and name a wider range of varieties of a given species than in some other islands. Some species, like *Barringtonia*, have more named varieties than other, like *Burckella*.

ISLAND	BAR	BUR	CAN	DRA	INO	POM	SPO	SYZ	TER	TOT
AMBAE	7	1	2	2	1	0	1	0	4	18
AMB.A	8	0	2	2	3	0	0	3	4	22
AMB.B	11	2	1	1	1	0	0	0	1	17
BANKS.A	4	0	3	0	0	0	0	0	0	7
BANKS.B	11	2	11	1	6	0	3	1	2	37
EFATE	11	0	9	1	0	0	1	0	1	23
EMAE	5	1	8	0	0	0	3	0	4	21
EPI.A	5	0	2	2	2	0	0	0	2	13
EPI.B	16	2	1	2	4	0	1	0	3	29
ERROMAN.	5	2	3	2	4	0	1	1	1	19
FUTUNA	2	0	0	0	0	0	0	1	1	4
MAEWO	13	1	7	0	0	0	0	1	0	22
MALAK.A	13	2	10	6	9	3	11	3	9	66
MALAK.B	9	1	19	0	0	0	0	0	0	29
MALO	14	0	5	1	0	0	3	2	1	26
PENTECO.	22	1	8	2	6	1	0	6	4	50
SANTO	1	0	1	0	0	0	0	0	0	2
TANNA	6	1	0	1	9	2	0	2	1	22
TONGOA	0	0	7	0	0	0	0	0	0	7
TORRES	7	2	2	1	2	1	2	2	7	26
TOTAL	170	18	101	24	47	7	26	22	45	460

(Amb. A: Craig-Cove, B: Ulei; Banks A: Gaua, B: Vanua-Lava; Malak. A: WalaRano, B: SWB)

Figure 2: Number of specimen trees recorded in the collection

Only one specimen of each kind of tree, named or recognized by the farmers, has been tagged and described. In fact, the number of recorded varieties underestimates the real number of morphotypes in each species. The ground rules are now firmly established and the major parts of the full range of varieties are recognized but it will be essential that the collection be up-dated and completed on regular basis.

ISLAND	VILLAGE (main)	Nb. of TREES	NAME of INFORMANT
AMBAE	Walah (Namehu)	473 to 488	John Mwele
AMBRYM	Craig-Cove	200 to 221	Edmond Charley
AMBRYM	Ulei (Paman)	222 to 238	Daniel
BANKS	Gaua (Tarasag)	427 to 433	Chif Lialul
BANKS	Vanua-Lava (Mosina)	148 to 199	Salathiel, Fred Palas
EFATE	Epa	379 to 395	Arthur Kalokul
EFATE	Nguna (Tikalasua)	396 to 401	Kalmet
EMAE	Magita	252 to 272	Kalo Tisomori
EPI	Rovo Bay (Alak)	239 to 251	Maxime
EPI	Lamen isl. (naloparua)	295 to 323	Ruben
ERROMANGO	Potnarvin	454 to 472	Mela Ruigu
FUTUNA	Mission Bay	434 to 437	Rolland Situ
MAEWOO	Betarara	402 to 433	Paul Ren
MALAKULA	Wala-Rano (Tsinowon)	55 to 118	Manuel Tourere
MALAKULA	Wala isl.	324 to 334	Joseph
MALAKULA	S.West Bay	491 to 519	Alben Ruben
MALO	Avunatari	335 to 378	Jenny Vira
PENTECOTE	Melsisi (Vansemakul) (Ilambre)	1 to 16 17 to 49	Fiorina Salway Hilaire tabi rap
TANNA	Ikutintin	273 to 294	Mery nanua
TORRES	Lo	119 to 135	Pasta Juda
	Hiu	136 to 147	Chif John

Figure 3: Situation of the collections and name of the informants

The villages where the trees have been tagged and the name of the persons responsible for the collection are given in figure 3.

All the informants visit the trees monthly in the area under their responsibility. They record the trees which have been cut and note the presence or absence of fruits and flowers on each

specimen. Then, they send the data to Port-Vila. The availability and the regularity of this survey is usually good except in some islands.

CHAPTER 2: VARIETY COLLECTION OF *BARRINGTONIA* *spp*

1. DESCRIPTION AND NAMES OF THE CULTIVARS

Often a single name is given for all species within a genus, except in S/E Ambrym, SWB Malakula and Efate where BARPRO² is differentiated from BARNOV/BAREDU, in Epi where BARNOV is differentiated from BARPRO/BAREDU and in Malo where BARPRO and BAREDU are differentiated.

ISLAND	LANGUAGE	NAME	SPECIES
Ambae	Nduindui	pele	BAR spp
Ambrym	Dakaka	tubu	BAR spp
Ambrym	S/E Amb.	tabu	BARNOV
		talep	BARPRO
		tavarsal(tabuvarsal	BAREDU
Banks(Gaua)	Nume	watag	BAR spp
Banks(VNL)	Mosina	wotaG	BAR spp
Efate	North-Efate	fil	BAREDU
		bugor	BARPRO
Emae	Tanamanga	na-vila	BAR spp
Epi	Lewo	tep (or sep)	BARPRO
		tep lop (or sep lop)	BAREDU
		kurgi	BARNOV
Erromango	Oru	felha	BAR spp
Futuna	Futuna	fofoto	BAR spp
Maewo	Baetora	woRotaga	BAR spp
Malakula	Wala/Rano	ndapwi	BAR spp
Malakula	Ninde	namase	BAREDU
		namase	BARNOV
		namase tari	BARPRO
Malo	Malo	fale	BARPRO
		hoRota	BAREDU
Pentecost	Apma	vel	BAR spp
Santo	Butmas/Tur	Rot	BAR spp
Tanna	Lenakel	nulha	BAREDU
Torres	Lo	n'votaga	BAR spp
	Hiu	noutaga	BAR spp

Figure 4: Names of *Barringtonia* spp in Vanuatu

2. The different species of *Barringtonia* will be referred to by the following abbreviations: BAREDU= *B. edulis*; BARPRO= *B. procera*; BARNOV= *B. novae-hiberniae*;

It is clear from figure 4 that some names do not fit with the reconstructed Proto-northern term *vele given for *B. edulis* neither with the reconstructed Proto-Oceanic term *putu given for *Barringtonia* sp. (Tryon, 1990 and Ross, 1993).

Specific names are given to every cultivar according to the fruit shape, size and colour. The colour of both epidermis and endocarp is pertinent to this classification. In some islands, the vernacular specific name of any particular cultivar may be forgotten by the farmers but they still recognize it as different from the other. The name and description of all the varieties (tagged or not) are given in annex 1.

We have experienced some difficulties classifying *Barringtonia* into one of the three taxonomical groups (Walter and Sam, 1992). The difficulties are even more considerable tempting to classify morphotypes. It is obvious that some cultivars have migrated through the islands and that they may be found in different places. However most of the physical features of the *Barringtonias* are genetically transmitted, through sexual reproduction, and that one particular variety does not necessarily give the same seedling as the mother tree. The recombination of the physical features through sexual reproduction and the cultivated nature of the *Barringtonias* have created a great number of cultivars which cannot be determined by using botanical observations.

Nevertheless it is possible to asses some groups of cultivars according to the fruit shape and fruit colour.

* BARPRO is divided into three groups:

- group 1: cylindrical fruits, equal or superior to 80 cm. They seem to be specific of the north Vanuatu (tree numbers: 77; 197; 188; 336; 356; 335; 36; 227; 432; 407; 124; 180; 412; 131; 510)
- group 2: ovoid fruits, inferior to 80 cm, present from the Solomons to Vanuatu
- group 3: dwarf tree (tree numbers: 153; 332; 36; 97; 474)

* BAREDU is also divided into two groups:

- group 1: cylindrical, sessile fruits, equal or superior to 90 cm; coarse leaf like that of BARPRO; very long inflorescence; poor productivity (tree numbers: 46; 150; 145; 264; 298; 360; 512). The numbers 386; 387 and 431 have the same features, except for the size of the fruits (around 80 cm).

- group 2: all other BAREDU, with an ovoid fruit, usually pediculate except for the following number which have a sessile and more elongated fruit: 224; 298; 305; 339; 481.

* BARNOV is homogeneous, with ovoid or spherical fruit.

According to the fruit colours eleven cultivars are distinguished whatever the species is. The figure 5 shows a clear predominance of an entirely green cultivar (VVBB). BARPRO is the only one to have a cultivar with a red endocarp and BARNOV is the only one to have a cultivar with a red mesocarp while all the other structures are green (VVRB). Half of the red fruits are BAREDU.

COLOUR	BARPRO	BAREDU	BARNOV	BAR	sp	TOTAL
RRBB	0	5	5	1		11
RRRR	1	0	0	0		1
RVBB	0	18	9	1		29
RVBR	2	1	0	0		3
RVRB	2	5	0	0		7
RVRR	6	0	0	0		6
<hr/>						
VRBB	0	1	0	1		2
VVBB	14	17	12	5		48
VVBR	2	0	0	0		2
VVRB	0	0	3	0		3
VVRR	10	1	0	0		11

Note: V= green; R= red; B= white; The letter in first position gives the colour of the epidermis, in second position the exocarp, in third position the mesocarp and in fourth position the endocarp.

Figure 5: Cultivars of *Barringtonia spp* according to the colours of the fruits

Fruiting and flowering season of BARPRO occurs once a year. The exact fruiting and flowering months have not been firmly established. It looks like they vary from one area to another and slightly from one tree to another.

Fruting and flowering season of BARNOV and BAREDU occurs continuously throughout the year or several times a year. This characerisic makes these both species more productives than BARPRO.

BARPRO is a cultivated species which is not much shade tolerant and needs regular weedings. BARNOV and BAREDU are both shade tolerantn need less care and can grow wild in disturbed forests.

2. THE BEST CULTIVARS OF BARRINGTONIAS

The best cultivars are those which have at least one of the following characteristics:

- a big kernel (superior to 44 x 20 mm for BARPRO and BAREDU or superior to 39 x 20 mm for BARNOV which is generally smaller than the two first ones)
- thin pericarp, easy to open
- red leaves, because this beautiful tree can be an ornamental
- a seedling able to fructificate quickly (less than 4 years, which looks to be the minimum necessary time between planting and first fruiting)
- possible propagation by cuttings

a) Big kernel

The average size of BARNOV's kernel is 30 x 21 mm. They are, in a whole, smaller than the ones of BARPRO (47 x 26 mm for the cylindrical ones and 34 x 24 mm for the ovoid ones) or the ones of BAREDU (21 x 39 mm for the cylindrical ones and 21 x 31,5 mm for the ovoid ones)³.

SPECIES	N° TREE	ISLAND	KERNEL SIZE (mm)
BARNOV	206	Ambrym	36 x 29
BARNOV	237	Ambrym	37 x 28
BARNOV	267	Emae	40 x 22
BAREDU	243	Epi	40 x 25
BAREDU	360	Malo	46 x 21
BAREDU	406	Maewo	46 x 21
BAREDU	298	Epi (LM)	50 x 21
BAREDU	281	Tanna	50 x 28
BAREDU	484	Amiae	51 x 28
BAREDU	485	Amiae	51 x 38
BARPRO	124	Torres	45 x 28
BARPRO	335	Malo	45 x 28
BARPRO	510	Malak.(SWB)	46 x 25
BARPRO	197	Banks(VNL)	47 x 23
BARPRO	189	Banks(VNL)	48 x 38
BARPRO	188	Banks(VNL)	50 x 22
BARPRO	336	Malo	50 x 24
BARPRO	131	Torres	60 x 25

Figure 6: List of the bigger sized kernels of Barringtonias

³. For more details see : Walter A. and Sam C. (1992a and 1992b)

The trees bearing fruits with a big kernel are given in figure 6

Eleven cultivars among this list of seventeen have a red epidermis. This fact cannot be explained for the moment. The cylindrical fruits have generally a bigger kernel than the ovoide fruits.

b) "Easy to open" cultivars

All three species have cultivars with thin pericarp. But this character is more frequent among the *B. novae-hiberniae* group. The ease of opening the nut in shell is more or less obvious from one tree to the other or from one fruit to the other.

The list of easy to open cultivars as they were called by the local peoples is given in figure 7.

ESPECE	TREE N°	ISLAND
BARNOV	210	Ambrym
BARNOV	237	Ambrym
BARNOV	267	Emae
BARNOV	239	Epi
BARNOV	315	Epi(LM)
BARNOV	316	Epi(LM)
BARNOV	320	Epi(LM)
BAREDU	484	Ambaré
BAREDU	485	Ambaré
BAREDU	430	Banks(Gaua)
BAREDU	465	Erromango
BARPRO	221	Ambrym
<i>B.sp</i>	9	Pentecost

Figure 7: List of the easy to open cultivars of *Barringtonias*

c) Cultivars with red leaves

BARNOV and BAREDU have cultivars with red leaves but BARPRO not. The red colour of the limb varies from brilliant red to dark red. These trees are not so frequent but present on nearly all visited islands. They have beautiful foliage, suitable to ornament a garden or a park. Further more, Evans does not mention them in Solomon (Evans, 1991), neither does Smith in Fiji (1981). Vanuatu has so to protect them. The list of the red leaves trees is given in figure 8. It must be noted that these trees do not necessarily give a seedling with red leaves even if they are of red leaves most of the time.

ESPECIE	TREE N°	ISLAND	NAME
BARNOV	263	Emae	na-vila memerona
BARNOV	251	Epi	kurgi malolo
BAREDU	406	Maewo	woRotaga memea
BAREDU	1;28;30	Pentecost	vel malgonis
BAREDU	472	Erromango	felinga tōgbor
BAREDU	not tagged	Malakula (SWB)	namas mehaha metemete
B.sp	not tagged	Ambae	pele kāgwela
B.sp	not tagged	Ambrym(Cr.Co)	tubu mermer
B.sp	not tagged	Ambrym(S/E)	tabu raRa
B.sp	not tagged	Banks(Gaua)	watag der tamat

Figure 8: List of *Barringtonia* cultivars with red leaves

d) Cultivars of special interest

* Early fructification

The tree number 265 from Emae has the reputation to start fruiting very quickly after planting. It is a BARPRO called na-vila papatua.

* propagation by cuttings

All the Barringtonias are reproduced through fruits or seedlings. But we have found three cultivars which can be propagated by cuttings. They are:

- Tree number 420: woRotaga fele, *B. procera* sp from Maewo
- Tree number 484 and 485: pele pwuhagwaka, *B. edulis* from Ambae

In Malakula (SWB) local people use to make suckers with all BARPRO during the wet season. The propagation by cuttings is not always successful but is quite easy to do.

CHAPTER 3: VARIETY COLLECTION OF *BURCKELLA* spp

1. DESCRIPTION AND NAMES OF THE CULTIVARS

There are three species of *Burckella* in Vanuatu. *Burckella obovata*, the most common species, is present in all the islands. It is a wild tree, protected by the local peoples and sometimes cultivated for its fruits.

The second one, *Burckella cf fijiensis* (Hemsl.) A.C. Smith and S.Darwin, is located on the island of Futuna. It is a well known endemic species to Fiji where it is often collected. The species is cultivated in Futuna for edible fruits and timber. In Futuna the tree is 15 m to 20 m hight, 35 cm to 75 cm in diameter, growing from sea level to 200 m altitude. The fruit is very characteristic, brown, pyriform, with a curve base, a 2 x 2 calice and a long residual style. The seed has a corious endocarp, smooth and shiny brown. It is perfectly illustrated by Hemsley (1892, plate XIII, figures 1 to 5) under the name *Chelonespermum minus* (see also Walter and Sam 1992b, annexe 6).

It must be noted that the drawing of *Chelonespermum majus* given by Hemsley (1892, plate XII, figure 1) does not fit at all with the observed fruits of *Burckella cf fijiensis* in Futuna. The drawing of *Chelonespermum fijiensis* given by the same author (op. cité plate XII, figures 6 to 9) does not fit perfectly with the seed observed in Futuna. For this reason and because the shape of the Futureneese trees seems quite bigger than the one described by Smith (1981 p.771) we cannot determine the Futuna specimen with an absolute certitude.

The last *Burckella* present at Vanuatu has been collected in South West Bay Malakula. Thus far the species is not known from another area. The species is under determination. It is a large, buttressed tree, 30 m hight with a trunk up 80 cm in diameter, occuring near sea level on limestone only. The leaves are 100-140 mm x 36-54 mm, with a 20-26 mm length petiole, a round apex, an acute base and 12-13 paires nerves. The fruit is spherique, smooth and glossy green with numerous longitudinal bridges and a long, thin style. Fruit size is 40-50 mm in diameter. Calice has 2 x 2 sepals. The seed is a dorsi-ventral body, about 35-40 x 25-30 mm. The ventral portion, 15 mm thick, is furnished at the top with numerous little protuberances, like a grater. The dorsal portion is covered with a glossy brown hard testa, the edges of which being sharp, entire or smoothly irregular, acute at apex and cordate at base (plate). The flowers were not seen. There are two kind of

this species, named **nentoHoy** by the local people. The first one, described above, is called **nentoHoy lapwe** and is moderately cultivated. The second one, not cultivated, is called **nentoHoy la'la'** and is quite smaller than the first one (fruit around 3 cm and seed around 2 cm in diameter). Both species are eaten raw or cooked by local people. We do not know yet if the two kinds belong to the same species.

The list of the vernacular names for *Burckella* spp is given in figure 9.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	naduledule
Ambrym	Dakaka	taviro
Ambrym	S/E Ambrym	nat
Banks (Gaua)	Nume	nat
Banks (VNL)	Mosina	not
Efate	North Efate	nat
Emae	Tanamanga	na-nato
Epi	Lewo	naR
Epi (LM)	Lewo	ngaru
Erromango	Oru	yetu
Futuna	Futuna	bau (<i>B. obovata</i>) bau (<i>B. cf fijiensis</i>)
Maewo	Baetora	natu
Malakula	Wala/Rano	niuR
Malakula	Ninde	nenet (<i>B. obovata</i>) nenetoHoy (<i>B.sp</i>)
Malo	Malo	sovwa
Nguna	North Efate	na-natu
Pentecost	Apma	wanet
Santo	Butmas-Tur	nat
Tanna	Lenakel	nieR
Torres	Lo	nenot
Torres	Hiu	n'not

NB: Where the latin name is not indicated it is *B. obovata*

Figure 9: Names of *Burckella* spp in Vanuatu

The name of *Burckella obovata* is sometimes applied to another Sapotace, *Planchonella costata* which is edible in some places (Tanna for example).

In Futuna the same vernacular name applies to *Burckella obovata* and *Burckella fijiense* but not to *Planchonella costata* whose name is **karaka**.

There are few specific names for *Burckella obovata* according to the scarcity of specific cultivars. With the exception of

Pentecost island where the local people record four different morphotypes, the farmers usually recognise two kinds of *Burckella*, one with a round fruit and one with a long fruit. The meaning of the specific names are often man or woman, the first meaning applying either to the long fruit or the round one, depending of the part of the male anatomy which is chosen in reference.

The botanical observation of the fruits allows to distinguish two kinds of morphotypes: one with round fruits and one with elongated fruits (figure 10)

FRUIT SHAPE	TREE N°	ISLAND
Round	483	Ambae
Round (smooth)	233	Ambrym
Round	177	Banks(VNL)
Round (smooth)	312	Epi(LM)
Round	454	Erromango
Round (smooth)	421	Maewo
Round	74	Malakula
Round	279	Tanna
Round	139	Torres
<hr/>		
Elongated	234	Ambrym
Elongated	176	Banks(VNL)
Elongated	271	Emae
Elongated	307	Epi(LM)
Elongated	470	Erromango
Elongated	87	Malakula

Figure 10: The fruit shape of *Burckella obovata*

It must be noted that the round shaped fruits are either smooth or presenting five grooves on their exocarp.

The fruit size is variable being 90 x 81 mm for the five grooved round fruits, 94 x 90 mm for the smooth round fruits and 109 x 58 mm for the elongated fruits.

Burckella cf fijiense is a rare, single variety species in Vanuatu. The average size of the fruit is 80 x 61 mm. The tree is so abundant in Futuna (Mission bay) and so homogeneous from one to another that we did not tag any.

2. THE BEST CULTIVARS OF *BURCKELLA* SPP

The variability of *Burckella obovata* is not large enough to point out which is the best cultivar. Nevertheless we recommend to multiply the trees n° 233, n°312 and n°421 for their big fruits.

Burckella cf fijiensis and *Burckella* sp from Malakula (SWB) are rare edible species in Vanuatu and have to be protected.

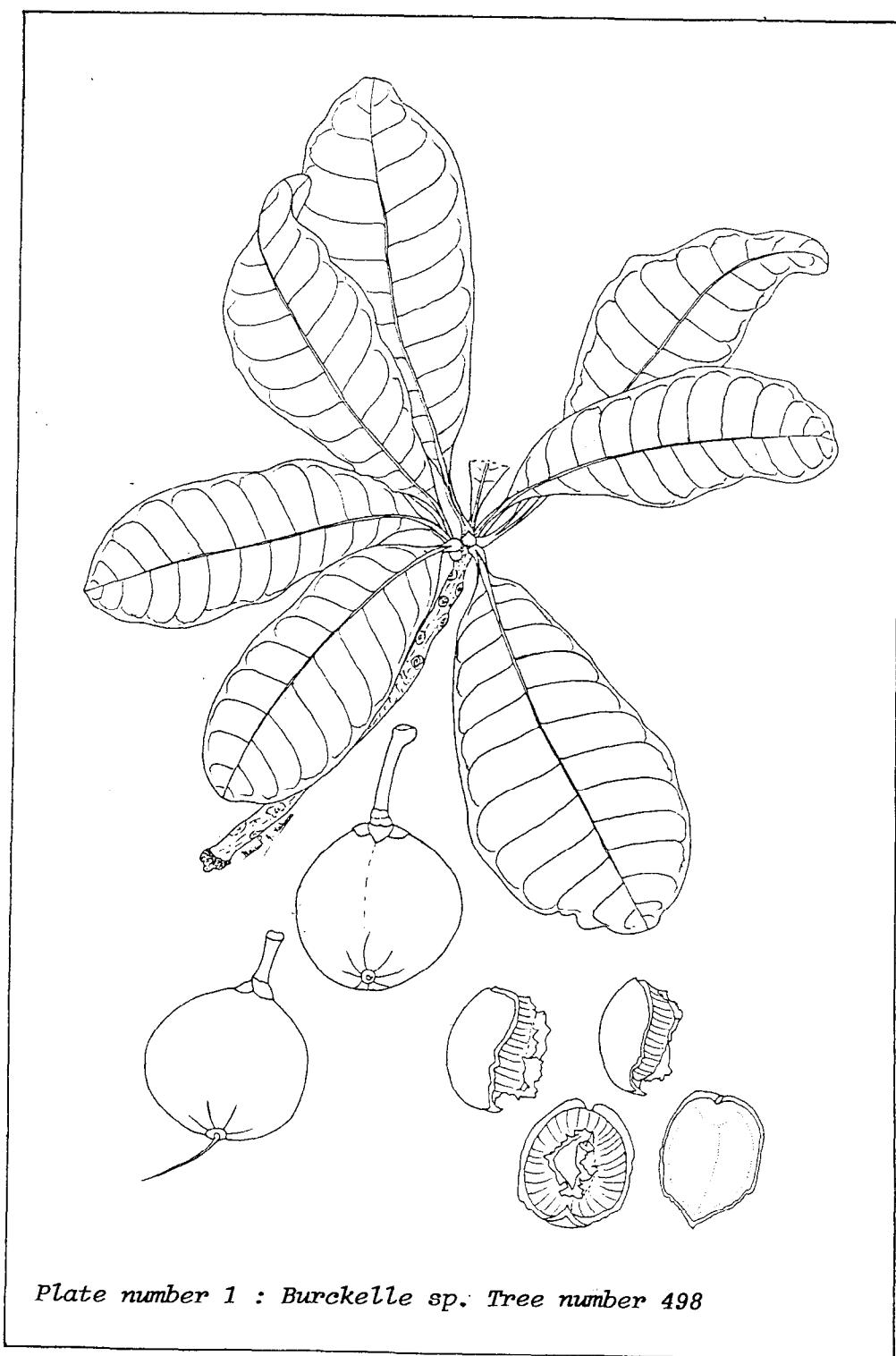


Plate number 1 : *Burckelle* sp. Tree number 498

CHAPTER 4: VARIETY COLLECTION OF *CANARIUM* spp

1. DESCRIPTION AND NAMES OF THE CULTIVARS

There are two species of edible *Canarium* in Vanuatu: *C. indicum* and *C. harveyi*. Within the last one there are at least two botanical varieties, namely *C. harveyi* var. *harveyi* and *C. harveyi* var. *nova-hebridense*. We have discussed elsewhere the taxonomic problems encountered while trying to determine the different botanical varieties of *C. harveyi* (Walter, and Sam, 1992). In the following pages we shall refer to all the *C. harveyi* as CANHAR, independantly of their variety. *C. indicum* will be referred to as CANIND.

The both species are named under a single term, in every island (figure 11).

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	na-hai
Ambrym	Dakaka	wele
Ambrym	S/E Ambrym	hay
Banks (Gaua)	Nume	ha
Banks (VNL)	Mosina	hie
Efate	North Efate	ahai
Emae	Tanamanga	na-hay
Epi	Lewo	hi
Erromango	Oru	na-hai
Futuna	Futuna	hai
Maewo	Baetora	na-gai
Malakula	Wala-Rano	neha
Malakula	Ninde	nihi
Malo	Malo	haihai
Nguna	North Efate	na-hai
Pentecote	Apma	wakha
Tongoa		nagae
Torres	Lo	negeR
Torres	Hiu	negeR

Figure 11: Names of *Canarium* spp in Vanuatu

The names fit with the Proto Oceanic word reconstructed for *Canarium* *(ka)hari (Tryon, 1990). In Ambrym, the term used to name *Canarium* is a reflex of the Proto Oceanic term *wele usually used to name the *Barringtonia*. It must be noted that, in this area, the term tubu presently names *Barringtonia*.

Specific names are given to each cultivar according to the fruit shape and size (annexe 1).

There are five types of CANIND according to the fruit shape (figure 12)⁴.

- two kinds with a round shape
- two kinds with an elongated shape
- one intermediate shape

The fruits belonging to any one kind may have one or two kernels.

The fruit shape of CANHAR is either round or elongated, usually flattened at one side. The most important feature is the cross-sectional shape of the nut-in-shell. Following this characteristic we were able to figure out five kinds of nuts, each kind predominating in one given area (figure 13)⁵.

The fruiting season of both species is long, the fruits slowly maturing. They are eaten during three or four months, mainly between October and March. In fact, the period at which the fruits are eaten varies slightly from one year to another, from one area to another and from one tree to another. It is therefore difficult to assess the exact fruiting season. An ongoing study on fruiting season of fruit trees will give ulteriorly some precisions about this important economical aspect.

Canariums are growing in forest and are widely cultivated near villages. The forest trees are usually more slender than the cultivated one's. The trees (wild or cultivated) situated in forest are exploited for their wood. The trees transplanted near villages are planted for their fruits. Under intensive culture both species have evolved from being dioecious to polygamous.

2. THE BEST CULTIVARS OF CANARIUMS

The best cultivars are those which have at least one of the following characteristics:

- a big kernel (superior to 31 x 21 mm for CANIND, to 30 x 20 mm for CANHAR) The average size for CANIND fruits is 54 x 37 mm, for CANHAR 49 x 33 mm. The average size for CANIND kernel is 31 x 21 mm , for CANHAR 29 x 20 mm.

- a thin pericarp, easy to open

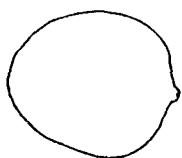
4. Figure 12 is reprinted and completed from Walter and Sam (1992b: Annexe 3)

5. Figure 13 is reprinted and completed from Walter and Sam (1992b: Annexe 3)

FRUIT SHAPE

1 SEED

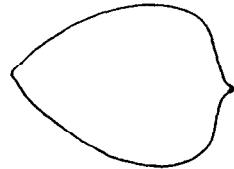
2 SEEDS

A- Type Apex and Base round

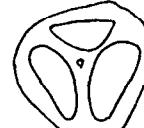
Specimen 60 MAL
Specimen 94 RAL
Specimen 103 MAL
Specimen 392 EFA



Specimen 102 AMB
Specimen 48 PEN
Specimen 419 MAE

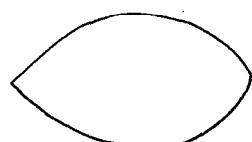
B- Type Apex acute, Base round

Specimen 235 AMB
Specimen 325 WAL
Specimen 416 MAE
Specimen 385 EFA
Specimen 422 MAE
Specimen 330 MAL
Specimen 497 SWB



Specimen 192 VNL
Specimen 352 MALO
Specimen 330 WAL
Specimen 455 ERO

ROUND SHAPE

C- Type Apex acute, Base round

Sp. 519 SWB



Specimen 19 PEN
Specimen 27 PEN
Specimen 181 VNL
Specimen 240 EPI
Sp. 508 SWB Specimen 389 EFA
Sp. 500 SWB Specimen 402 MAE
Sp. 501 SWB Specimen 494 SWB
Sp. 502 SWB Specimen 495 SWB
Sp. 504 SWB Specimen 496 SWB
Sp. 505 SWB Specimen 480 AMBA



Specimen 6 PEN
Specimen 19 PEN
Specimen 144 TOR
Specimen 346 MALO
Specimen 464 ERO
Specimen 492 SWB
Specimen 475 AMBA
Specimen 515 SWB
Specimen 516 SWB
Specimen 517 SWB

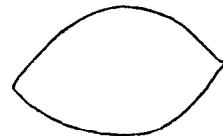
D- Type Apex and Base acute

Specimen 178 VNL
Specimen 44 PEN
Specimen 213 AMB
Specimen 66 LAM
Specimen 418 MAE
Specimen 354 MALO



Specimen 424 SAN
Specimen 355 MALO
Specimen 499 SWB
Specimen 518 SWB

ELONGATED SHAPE

E- Type Apex and Base acute

Specimen 68 MAL
Specimen 83 MAL
Specimen 433 GAU
Specimen 193 VNL
Specimen 241 EPI
Specimen 272 EMA
Specimen 353 MALO



Specimen 70 MAL
Specimen 81 MAL
Specimen 151 VNL
Specimen 260 EMA

INTERMEDIATE SHAPE

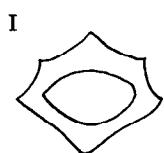
Figure 12 : Different fruit shapes of CANIND

Big ovoid
fruit
(6-5 X 3,5)

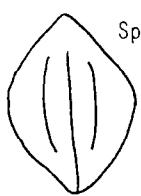
Middle side
fruit
(4-4,5 X 3)

Small cordate
fruit
(3 X 2,5)

Other fruit
shape
(4 X 2,4)



6 sides



Specimen 429 GAU

Specimen 149 VNL



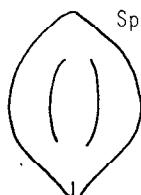
Specimen 191 VNL
Specimen 491 SWB



Specimen 199 VNL



5 sides



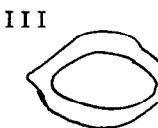
Specimen 158 VNL



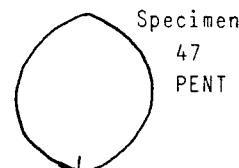
Specimen 415 MAE
Specimen 179 VNL



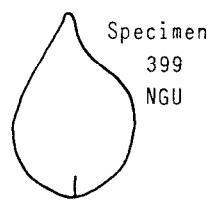
Specimen 96 MAL



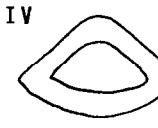
2 sides



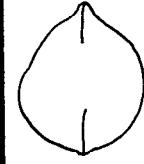
Specimen 400 NGU



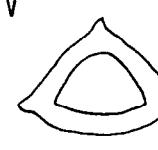
4,5 x 3



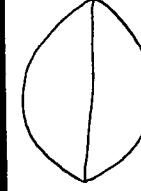
3 rounded sides



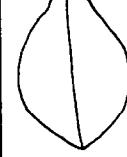
Specimen 397-398 NGU



3 sharp sides



Specimen 159 VNL



Specimen 461 ERO



4 x 2,3

Figure 13 : Different fruit shapes of CANHAR

- a big yield, a ongoing fructification or a special fruit colour

a) Big kernel

The list of the trees bearing fruits with a big kernel is given in figure 14.

SPECIES	TREE N°	ISLAND	KERNEL SIZE(mm)	Cultivar
<i>C. indicum</i>	272	Emae	45 x 25	wogawuro
<i>C. indicum</i>	499	Malakula(SWB)	42 x 20	ya nemen
<i>C. indicum</i>	496	Malakula(SWB)	40 x 25	gas malala
<i>C. indicum</i>	144	Torres	40 x 22	tawə
<i>C. indicum</i>	495	Malakula(SWB)	38 x 22	buas
<i>C. indicum</i>	418	Maewo	38 x 20	kati
<i>C. indicum</i>	518	Malakula(SWB)	38 x 20	wulakH
<i>C. indicum</i>	385	Efate	36 x 20	alapu
<i>C. indicum</i>	515	Malakula(SWB)	36 x 25	doHoy
<i>C. indicum</i>	500	Malakula(SWB)	35 x 22	Ium
<i>C. indicum</i>	501	Malakula(SWB)	35 x 20	pagkahu
<i>C. indicum</i>	519	Malakula	34 x 24	sivirərə
<i>C. indicum</i>	504	Malakla(SWB)	34 x 22	tokuwa
<i>C. indicum</i>	422	Maewo	34 x 20	bisugue
<i>C. indicum</i>	505	Malakula(SWB)	33 x 22	peH
<i>C. harveyi</i>	158	Banks (VNL)	40 x 22	lowlow
<i>C. harveyi</i>	428	Banks (Gaua)	38 x 24	lalap
<i>C. harveyi</i>	47	Pentecote	38 x 25	lo
<i>C. harveyi</i>	179	Banks (VNL)	37 x 25	kwotegap
<i>C. harveyi</i>	429	Banks (Gaua)	37 x 23	bunbun
<i>C. harveyi</i>	159	Banks(VNL)	32 x 25	wulme

(NB: the cultivar names given in this figure have to be preceded by the generic vernacular name used in the area)

Figure 14: List of the *Canarium* cultivars bearing fruits with a big kernel

b) "Easy to open" cultivars

The shell of CANHAR are more easy to open than the shell of CANIND, but this task is always difficult. Eleven cultivars of CANIND and one of CANHAR cultivar have an "easy to open" shell (figure 15).

c) Cultivars of special interest

The fruit characteristics of three CANIND specimens and one CANHAR specimen were of special interest:

- Tree N° 402 (CANIND, Maewo) has a continual production of fruits, all over the year
- Trees N° 497, N° 517 (CANIND, Malakula-SWB) have a hight production
 - Tree N° 416 (CANIND, Maewo) has some deep yellow kernels mixed in the same shell with pure white kernels.
 - Tree N° 260 (CANIND, Emae) has yellow leaves and yellow fruits (exocarp is yellow but not the kernel).
 - Tree N° 415 (CANHAR, Maewo) has fruits containing 3 fertile seeds.

SPECIES	TREE N°	ISLAND	NAME
<i>C. indicum</i>	205	Ambrym	wele ker
<i>C. indicum</i>	235	Ambrym	ηay terumwe
<i>C. indicum</i>	433	Banks(Gaua)	ηa pkur
<i>C. indicum</i>	385	Efate	αηai alapu
<i>C. indicum</i>	262	Emae	na-ηay kati
<i>C. indicum</i>	272	Emae	na-ηay wogawuro
<i>C. indicum</i>	241	Epi	ηi karie
<i>C. indicum</i>	464	Erromango	na-ηai
<i>C. indicum</i>	418	Maewo	na-gai kati
<i>C. indicum</i>	496	Malak.(SWB)	niŋi gas malala
<i>V. indicum</i>	518	Malak.(SWB)	niŋi wulaHk
<i>C. indicum</i>	352	Malo	ηaiŋai hati
<i>C. indicum</i>	144	Torres	negeR tawə
<i>C. harveyi</i>	397	Nguna	na-ηai

note: The meaning of the terms ker, kati, karie, hati is "cut with tooth"

Figure 15: List of *Canarium* cultivars bearing fruits with an easy to open shell

In conclusion, we have to point out how numerous the cultivars are in South-West Bay and how frequent the big kernels also are. In this area, where the species is abundant and protected by a strong custom, the local population have selected good cultivars for many generations. All the named cultivars have a special interest and they are regularly transplanted. There is a lot of other cultivars, growing wild in the forest. They are unnamed and generally smaller than the cultivated ones.

CHAPTER 5: VARIETY COLLECTION OF *Dracontomelon vitiense*

1. DESCRIPTION AND NAMES OF THE CULTIVARS

Dracontomelon vitiense is the only species of the genus present in Vanuatu. Its different names are given in figure 16.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	katambolo
Ambrym	Dakaka	mei
Ambrym	S/E Amb.	mai
Banks(Gaua)	Nume	wera
Banks (VNL)	Mosina	woro
Efate	North Efate	ne-Rou
Emae	Tanamanga	na-Rau
Epi	Lewo	lu
Erromango	Oru	na-Rak
Futuna	Futuna	taveRao
Maewo	Baedora	taqola
Malakula	Wala/Rano	netapol
Malakula(SWB)	Ninde	na-ru
Malo	Malo	Ratambola
Pentecost	Apma	katpol
Santo	ButmasTur	atapol
Tanna	Lenakel	novil
Torres	Lo	nero

Figure 16: Names of *Dracontomelon vitiense* in Vanuatu

There are very few specific names applied to this species. When they exist they refer to the size of the fruit (big, small or medium size) or to the fruit colour (white, yellow or red). The local populations describe two kinds of *Dracontomelon vitiense*: one with big fruits and one with small fruits. It is sometimes difficult to perceive the difference.

The botanical observation reveals effectively two different sizes for the fruit (figure 17):

- a big size, diameter upper or equal to 30 mm
- a small size, diameter inferior to 30 mm

The colour of the fruit varies from pale yellow to dark yellow.

FRUIT (mm)	SIZE	TREE N°	ISLAND
Small (29)	249	Epi	
Small (27)	105	Malakula	
Small (26)	477	Ambae	
Small (25)	323	Epi(LM)	
Small (23)	359	Malo	
Small (21)	61	Malakula	
Small (20)	458	Erromango	
Small (20)	467	Erromango	
Small (20)	391	Efate	
Small (20)	39	Pentecost	
Small (11)	293	Tanna	
<hr/>			
Big (34)	478	Ambae	
Big (34)	214	Ambrym	
Big (33)	248	Epi	
Big (32)	208	Ambrym	
Big (32)	311	Epi(LM)	
Big (30)	22	Pentecost	
Big (30)	230	Ambrym	
Big (30)	123	Torres	

Figure 17: Fruit size of *Dracontomelon vitiense*

The dimensions given in figure 17 have to be taken cautiously. The size variation between two fruits is never large and the classification of any fruit in big or small size cannot be taken for granted.

Dracontomelon vitiense is always a wild species and it does not seem necessary to ascertain the best cultivars (in this case the best morphotypes) within the species. The sweetness of the pulp, sometimes recorded by local population, is attached to particular trees but does not always appeared in the seedlings of such trees. However this feature is favored under human selection.

The flowering period of the species is not established. The fruits have been recorded from March to June.

CHAPTER 6: VARIETY COLLECTION OF *INOCARPUS FAGIFER*

1. DESCRIPTION AND NAMES OF THE CULTIVARS

Names of *Inocarpus fagifer*, throughout the islands, are given in figure 18. They fit with the two Proto-oceanian word given by Tryon (1990): *qipi or *mwampwe. The term talis collected in Santo is the term used elsewhere in Vanuatu for *Terminalia catappa*.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	magwe
Ambrym	Dakaka	map
Ambrym	S/E Ambrym	map
Banks (Gaua)	Nume	mak
Banks (VNL)	Mosina	mwiak
Efate	North Efate	ne-mak
Emae	Tanamanga	na-mabwe
Epi	Lewo	kinaye
Erromango	Oru	nowane
Futuna	Futuna	ifi
Maewo	Baedora	mague
Malakula	Wala/Rano	nies
Malakula	Ninde	nambwe
Malo	Malo	mambwe
Pentecote	Apma	maba
Santo	ButmasTur	talis
Tanna	Lenakel	nukwanai
Torres	Lo	nemeuk

Figure 18: Names of *Inocarpus fagifer* in Vanuatu

The tree is a cultivated one and the local peoples describe many cultivars according to the fruit shape, fruit size and fruit colour. In each area there is an average of six different cultivars recorded with a maximum of 18 in Pentecost. It was not possible to collect all of them because there is only one fruiting season around February-March. The tree is more abundant in the southern part of Vanuatu. On the whole the culture of *Inocarpus fagifer* declines from before.

The fruit shape variability is so large that it is difficult to find similar trees. But it is possible to recognise a special group of cultivars characterised by an hooked fruit or a crescent shape fruit (figure 19). In terms of fruit colour , a group with red/orange

fruits and another one with white/pale yellow fruits must be pointed out.

ISLAND	TREE N°	NAME
<u>Hooked or crescent shape fruit</u>		
Banks (VNL)	183	mwiak tanalŋal
Efate	not tagged	ne-mak tanel
Epi	not tagged	kinaye ipisona
Malakula	80; 71;65	nies amiven
Malo	not tagged	mambwe wari
Pentecost	not tagged	maba batkelkel
Tanna	not tagged	nukwanai piko
<u>Orange or red fruit</u>		
Ambrym	not tagged	map vili
Banks (VNL)	148	mwiak meme
Banks (VNL)	196	mwiak lowlowo
Erromango	not tagged	nowane namande
Futuna	not tagged	ifi koka
Malakula	80;65;66	nies amiven
Pentecost	not tagged	maba tememe
santo	not tagged	talis kar
Tanna	not tagged	nukwanai pometa
<u>White or pale yellow fruit</u>		
Ambae	not tagged	magwe daile
Ambrym	203	map mere
Santo	not tagged	talis fok
Tanna	294	nukwanai moho

Figure 19: Some cultivars of *Inocarpus fagifer*

2. CULTIVARS OF PARTICULAR INTEREST

There are two main groups of cultivars of particular interest:

- A. The big fruits (length upper or equal to 100 mm, width superior to 70 mm)
- B. The small fruits (length inferior to 60 mm) which can be roasted easily. In this group the dwarf fruit of tree n°301 (Lamen island) is the most interesting.

FRUIT SIZE (mm)	TREE N°	ISLAND	NAME
170 x 90	468	Erromango	nowane numlamkao
130 x 110	146	Torres	nəmek
125 x 118	128	Torres	nəmek
120 x 95	304	Epi (LM)	kinaye
115 x 90	194	Banks (VNL)	mwiak malges
110 x 100	290	Tanna	nukwanai
110 x 90	196	Banks (VNL)	mwiak lowlowo
110 x 90	80	Malakula	nies amiven
110 x 70	275	Tanna	nukwanai pamlemla
100 x 80	294	Tanna	nukwanai moho
100 x 70	471	Erromango	nowane nesul
100 x 70	100	Malakula	nies nibem laets
100 x 70	457	Erromango	nowane
<hr/>			
60 x 78	182	Banks (VNL)	mwiak kwagkwag
60 x 70	148	Banks (VNL)	mwiak meme
60 x 55	49	Pentecost	maba metakas
60 x 50	59	Malakula	nies amiven
40 x 40	301	Epi (LM)	kinaye yol

Figure 20: Very big or very small cultivars of *Inocarpus fagifer*

CHAPTER 7: VARIETY COLLECTION OF *POMETIA PINNATA*

DESCRIPTION AND NAMES OF THE CULTIVARS

The variety collection of *Pometia pinnata* is very poor. We could not manage to observe and collect fruits, during the past two years. The fruiting period of this species is very short and occurs in an undetermined month (usually recorded around march by the local population; observed in August/September in Tanna).

Nevertheless we shall give the list of names as they were obtained through interviews with farmers (figure 21). Tryon (1990) has given the term *tawan or *(n)tawa for the Proto-Oceanic name for *Pometia pinnata* and the term *dau for the Proto-Northern Vanuatu one. All the names collected fit with this reconstruction except in Ambrym (S/E Ambrym) and Malakula (Wala/Rano) where the species name is a reflex of the Proto-Northern Vanuatu term *rau usually used for *Dracontomelon vitiense*.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	na-nda
Ambrym	Dakaka	nda
Ambrym	S/E Ambrym	Rao
Banks (Gaua)	Nume	wuten
Banks (Vnl)	Mosina	tawen
Efate	North Efate	nda
Emae	Tanamanga	na-tao
Epi	Lewo	kilata
Erromango	Oru	dao
Futuna	Futuna	tauwa
Maewo	Baetora	dalawa
Malakula	Wala/Rano	Ra
Malakula	Ninde	ne-ndi
Malo	Malo	ndsaria
Pentecôte	Apma	lislis
Santo	Butma/Tur	tsiri
Tanna	Lenakel	nativ
Torres	Lo/Hiu	ne-taw'

Figure 21: Names of *Pometia pinnata* in Vanuatu

Specific names are given within the genus. They vary from one to eight, the average being three. The diversity looks to be larger in central Vanuatu (Epi, Malakula and specially Malo where the trees are abundant).

The cultivars are recognized according to the fruit colour. The two main cultivars are a red fruit one and a green fruit one. The fruits are more or less juicy from one tree to another and they look to be often parasited with worms.

CHAPTER 8: VARIETY COLLECTION OF *SPONDIAS DULCIS*

1. DESCRIPTION AND NAMES OF CULTIVARS

There is still some confusion about the taxonomy of the genus *Spondias*. As we have pointed out elsewhere (Walter and Sam, 1992b) the botanical description of the genus in Vanuatu does not fit perfectly the results of the last revision done by Kosterman (1991). For this author, the morphology of the endocarp allows to put each observed specimen in the genus *Spondias* (smooth endocarp encapsulated in a fibrous net) or in the genus *Evia* (endocarp showing numerous and hard spines). In Vanuatu, quite all of the observed specimens have a spiny endocarp and must fall in the genus *Evia*. However we have seen some specimens with both a spiny endocarp and a fibrous capsule. For this reason, it is better to group all the ni-Vanuatu specimens in the *Spondias* group, to avoid too much confusion between the terms.

The names given to *Spondias dulcis* in the different languages of Vanuatu are given in figure 22.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	u hi
Ambrym	Dakaka	paor
Ambrym	S/E Ambrym	homal
Banks(Gaua)	Nume	wes
Banks(VNL)	Mosina	ur
Efate	North Efate	ne-mal
Emae	Tanamanga	na-mali
Epi	Lewo	malmal
Erromango	Oru	ne-vi
Futuna	Futuna	na-vi
Maewo	Baetora	wisa
Malakula	Wala/Rano	naus-borton
Malakula	Ninde	tsoHwoi
Malo	Malo	Resi
Pentecost	Apma	ba:rus
Santo	Butmas-Tur	wi
Tanna	Lenakel	naus
Torres	Lo	nur
Torres	Hiu	nug

Figure 22: Names of *Spondias dulcis* in Vanuatu

Local peoples usually add some specific names to the former one to distinguish two or three cultivars, according to the fruit size, fruit color or pulp softness.

During the research period (1991-1993) Vanuatu had to endure some severe cyclones. *Spondias* fruits, with their long pedoncule, are not particularly resistant to strong winds and most of them were pull down before maturity. For this reason, the survey of *Spondias* has not been completed. However we are able to point out some cultivars, mainly issued from the Malakula survey in 1991.

The average size of the fruit is 83 mm x 67 mm, the size varying from 60 mm to 125 mm. The epidermis is green (glossy or durty) or yellow. The mesocarp is more or less fibrous and the stone has usually 5 woody, stiff fibres.

Apart from the large size fruits the only cultivar of special interest is the one with a small green fruit and a very small tender endocarp. This fruit may be eaten completely, including the skin (too acid to be eaten in the ordinary fruits) and the endocarp (figure 23). It is eaten just before maturity. Then the pulpe becomes dry and the endocarp strong.

ISLAND	TREE N°	NAME
Ambrym	not tagged	paor mwerere
Banks(VNL)	165	ur woraŋran
Emae	254; 255	na-mali atamoli
Malakula	55	naus borton mberean

Figure 23: *Spondias* fruit with a tender and small endocarp (the whole fruit is eaten)

It must be noticed that all this cultivar has always received a special name although the special names are rare within the species.

2. THE BEST CULTIVARS OF SPONDIAS

The best cultivars of *Spondias* are those with a big fruit size, a juicy, not fibrous pulpe and a nice glossy orange colour. Another kind of tree is said to bear fruits just before the common fruiting season (figure 24).

ISLAND	TREE N°	NAME	SIZE
Fruit before the comon fruiting season			
Epi	not tagged	malmal tarakak	
Big fruit size			
Malakula	86	naus borton	125
Malakula	58	naus-borton	120
Malakula	57	naus-borton	110
Malakula	115	naus-borton melnator	105
Malakula	73	naus-borton	100
Erromango	459	ne-vi	100
Glossy orange fruit			
Malo	351	Resi voke	

Figure 24: *Spondias* cultivars of special interest

In Malo, some giant fruits are recorded by the population but it was not possible to collect them because the survey occurs out of the fruiting season.

CHAPTER 9: VARIETY COLLECTION OF *SYZYGIUM MALACCENSE*

1. DESCRIPTION AND NAMES OF *SYZYGIUM MALACCENSE*

There are many species of *Syzygium* in Vanuatu and *Syzygium malaccense* is the edible one. Usually , the non edible species of *Syzygium* are named differently than *Syzygium malaccense* (see figure 25 for the names of *S. malaccense*).

Few specific names were recorded, according with the scarcity of varieties within the species.

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	kavika
Ambrym	Dakaka	have
Ambrym	S/E Ambrym	ahi
Banks(Gaua)	Nume	wivir
Banks (VNL)	Mosina	gever
Efate	North Efate	kavik
Emae	Tanamanga	na-kavika
Epi	Lewo	kavika
Erromango	Oru	webe
Futuna	Futuna	kavika
Maewo	Baedora	Havika
Malakula	Wala/Rano	navi
Malakula	Ninde	neweke
Malo	Malo	havika
Pentecost	Apma	kavik
Santo	Butmas/Tur	ifi
Tanna	Lenakel	ne-kavik
Torres	Lo/ Hiu	nəgəviga

Figure 25: Names of *Syzygium malaccense* in Vanuatu

This species is a wild one, sometimes cultivated near the villages, in the coconut plantations or along the pathways.

The fruit size varies and slightly does the fruit shape. The fruit colour varies from pale pink to red. On the whole, the species seems to be relatively homogeneous. The fruits are often parasited by worms.

2. CULTIVARS OF SPECIAL INTEREST

All over Vanuatu, there is a special variety of *Syzygium malaccense* which bears white fruits and white flowers. This variety has been received a special specific name whose meaning is "star", "white hair", "albinos", "white". This cultivar is considered valuable by the local populations (figure 26).

ISLAND	TREE N°	NAME
Ambrym	200	have moso
Ambrym	201	have suu
Ambrym	not tagged	ahi ah-moso
Banks (VNL)	not tagged	gever wolul
Epi	not tagged	kavika veRve
Maewo	423	Havika Raniete
Malo	340	Havika tetevuso
Malakula(SWB)	not tagged	neweke mis
Pentecôte	14	kavik maru
Tanna	not tagged	have toən
Torres	122	nəgəviga nigno

Figure 26: White fruits of *Syzygium malaccense*

Apart from big fruited trees recorded here and there, it is the only cultivar of special interest within the species. It is less parasited and sweeter than the red one.

CHAPTER 10: VARIETY COLLECTION OF *TERMINALIA CATAPPA*

1. DESCRIPTION AND NAMES OF THE CULTIVARS

There are three species of *Terminalia* in Vanuatu, namely *Terminalia catappa* (edible species), *Terminalia samoensis* (edible species but not eaten) and *Terminalia sepicana*, rare species used for timber. The same vernacular name covers the three of them (figure 27).

ISLAND	LANGUAGE	NAME
Ambae	Nduindui	tokwa
Ambrym	Dakaka	wike
Ambrym	S/E Ambrym	hoe
Banks(Gaua)	Nume	tilis
Banks (VNL)	Mosina	teles
Efate	North Efate	tali
Emae	Tanamanga	na-talie
Epi	Lewo	tawo
Epi (LM)	Lewo	sawo
Erromango	Oru	teli
Futuna	Futuna	tarie
Maewo	Baedora	talise
Malakula	Wala/Rano	dawo
Malakula	Ninde	neitiktik*
Malo	Malo	tavaoa
Pentecost	Apma	towo ou telis
Santo	Butmas/Tur	tavo
Tanna	Lenakel	tel
Torres	Lo	nə-telihə
Torres	Hiu	nə-tyiyitə

*: The meaning of this term is "to beat"

Figure 27: Names of the genus *Terminalia* in Vanuatu

Specific names are added in order to differentiate some cultivars according to the fruit size, fruit colour or ease to open the shell. At this level the different species are distinguished and they are so assimilated to a cultivar of *Terminalia catappa*. The number of different cultivars pointed out by the local populations is not important and varies from two to five.

The variability of *Terminalia catappa* is quite large in Vanuatu. The fruit size varies from 25 mm to 100 mm. The fruit colour varies from glossy red to dirty, brownish green, yellow or red. The fruit shape may be globular or flattened, ovoid or slightly elongated, the usually marked wings disappeared sometimes under

the flesh, a hook may be observed at apex. The tree is either wild, spontaneous or cultivated near villages.

We must point out two particular forms of *Terminalia catappa* which are present in nearly all islands.

1. The first one shows a medium size fruit, glossy red, ovoid. This kind of trees are found near seashore and fructifies all over the year (figure 28).

2. The second one has fruits with a thin pericarp and the shell is easy to open (figure 29)

ISLAND	TREE N°	NAME
Ambae	487	tokwa
Ambrym	219	wike siwangere
Banks (VNL)	190	teles
Torres	136	nə-tiyitə
Torres	134	nə-telihə

Figure 28: *Terminalia catappa* morphotypes bearing a glossy red fruit

2. BEST CULTIVARS OF TERMINALIA CATAPPA

The best cultivars of *Terminalia catappa* are those with at least one of the following characteristics:

- A. A big kernel (size upper or equal to 30 mm)
- B. An easy to open shell

They are given in figure 29.

It must be noted that four cultivars have, at the same time, a big kernel size and an easy to open shell (Trees N° 67; 92; 187; 437)

ISLAND	TREE N°	NAME	KERNEL SIZE
1. Big fruits			
Ambae	487	tokwa	35 x 12 mm
Ambrym	217	wike winbap	30 x 13 mm
Ambrym	236	hoe pili	30 x 16 mm
Banks (VNL)	187	teles lowlowo	39 x 10 mm
Efate	388	tali popot	32 x 15 mm
Epi	246	tawo krekaivu	32 x 11 mm
Epi (LM)	295	sawo	30 x 13 mm
Futuna	437	tarie maRa	30 x 9 mm
Malakula	92	dawo etsets	35 x 12 mm
Malakula	67	dawo	35 x 10 mm
Malakula	88	dawo	27 x 15 mm
Malakula	328	dawo wala	28 x 14 mm
Torres	120	nə-telihə	47 x 13 mm
B. easy to open shell			
Ambrym	218	wike wuro	25 x 11 mm
Ambrym	220	wike ker	25 x 12 mm
Banks (VNL)	187	teles lowlowo	39 x 10 mm
Emae	252	na-talie miela	25 x 0.5 mm
Futuna	437	tarie maRa	30 x 0.9 mm
Malakula	92	dawo etsets	35 x 10 mm
Malakula	67	dawo	35 x 10 mm
Malakula	328	dawo wala	28 x 14 mm

Figure 29: Best cultivars of *Terminalia catappa*

CHAPTER 11: DISCUSSION

The results given in this document are not exhaustive. Many area have not yet been visited and some new morphotypes could be observed in them. In the visited area the survey was based on vernacular names lists given by local populations. The number of morphotypes recorded in one given area depends upon the precision of the language. Sometimes, the language is very precise, or still strong enough to be well known by the present local population, so the list will be almost complete. Sometimes the language is less precise or already impoverished and is unable to name some cultivars, even if they are well known by the population. To avoid this survey bias we have check as much as possible the lists with botanical observations in the field. Nevertheless, we are quite sure that the real diversity of the studied species exceeds the results given in this paper.

1. GENERAL FEATURES OF FRUIT AND NUT TREES CULTIVATION IN VANUATU

1. The diversity within the species is large and increases with cultivation: in this point of view *Barringtonia* spp and *Canarium* spp have the bigger number of morphotypes.
2. This diversity has been established through selection pressure by generations of farmers who have selected, protected and transplanted the best cultivars encountered in the forests. They also have protected any morphotype which was showing a particular feature in term of size, colour, shape, taste or what's so ever. Any man or woman is always proud to grow a tree that the other do not have. For this reason the ni-vanuatu societies have acted for generations as real ecologists, protecting biodiversity, planting trees (even if they cut them sometimes) and giving to the next generation an intact and often ameliorated environment. This habit was not based on a real understanding of the complexity of the ecosystem but on a near religious knowledge of the nature and on the need to balance and secure the subsistence system.
3. The species are well distributed in the whole country but this distribution is not completely homogeneous. *Barringtonia novae-hiberniae* predominates in Central/East Vanuatu (Emae, Epi, Ambrym); *Barringtonia edulis* is quite the only species of Barringtonia in the southern part of the country, while *Barringtonia procera* is more abundant in North West Vanuatu than anywhere else (Torres, Banks, Malakula, Epi and Emae). The genus *Canarium* extends from north to Erromango. *Canarium harveyi* is

mainly restricted in the Banks, Sheperds and Erromango, while *Canarium indicum* is particularly abundant in South-West Malakula. *Inocarpus fagifer* is more abundant in the southern part of the country.

Some species are entirely restricted to a small area: *Burckella cf fijiensis* in Futuna and *Burckella sp* in South-west Bay of Malakula. Finally some species or morphotypes are more numerous in some area, the white *Syzygium malaccense* grows abundantly in Malo, the giant fruits of *Spondias dulcis* have to be looked for in Malakula and Malo, *Pometia pinnata* is largely produced in Malo. Each area has to protect in priority the fruits which show the maximum diversity or are produced in abundance (figure 30).

ISLAND	AREA	SPECIES
Ambae	Nduindui	<i>Barringtonia</i> sp (tree N°473)
Banks	Vanua-Lava	<i>Canarium harveyi</i>
Efate	North	wild BAREDU or BARNOV <i>Canarium cf Salomonense</i> (N°390)
Epi/Tonga/Emae		<i>Canarium harveyi</i>
Erromango	Potnarvin	wild <i>Canarium harveyi</i>
Futuna	Mission Bay	<i>Burckella cf fijiensis</i>
Maewo	Betarara	<i>Terminalia sepicana</i> All kind of <i>Barringtonia</i> (very large diversity)
Malakula	Wala-Rano	big fruits of <i>Spondias dulcis</i>
Malakula	SWB	<i>Canarium indicum</i> (largest diversity) <i>Burckella</i> sp edible
Malo	Avunatari	white <i>Syzygium malaccense</i> <i>Pometia pinnata</i> giant fruit of <i>Spondias dulcis</i>
Tanna	Lenakel	<i>Inocarpus fagifer</i>

Figure 30: species of special interest in each island (biggest diversity; abundant or particular)

4. The fruit and nut trees are found around villages, along the road, near the garden, on coconut or cacao plantation. They are sparsed in the forest but are regrouped elsewhere, sometimes in small patch of agroforest between two coconut plantation. These small agroforests are more likely to be found on areas which face some kind of trends on available land: small islets like Lamen island or Walla island, island like Nguna or Futuna where every space is devoted to a predominant culture, area more devoted to plantation activity or facing quick demographic growth, like the north-east coast of Malakula (Wala-Rano). Elsewhere, like Torres, west coast of Malakula or even Pentecost,

the agroforests are more loosely organized. Arboriculture in Vanuatu is, for the moment, essentially turned toward subsistence.

4. The cultivation and harvesting of fruits and nuts enhance food security. The consumption of each fruit or nut follows the seasonality of the species. They are eaten to satiety in season, usually out of meals. One after the other and month after month, they balance the diet. They are eaten along the road, on longer journeys, consumed at lunch in the gardens or, at rest, after copra making. The cultivation of fruits or nuts provides supplementary food along the year, maximises the work time because people are able to eat away from home and can stay a full day out of the village, and secure the daily meal between two crops of yam or taro. Because arboriculture is a form of food security for the household (security obtained with a low level of labour), it must be protected and encouraged. Decreasing access to harvested food engenders certainly nutritional problems among urban peoples.

5. If nothing is done to protect this plant stock it will be impoverished quickly. The number of fruit trees is decreasing in exploited areas. We have counted the number of adult fruit or nut trees (belonging to one of the nine species studied in this report) on three 4000 m² parcels of land, respectively situated in:

- never exploited forest
- ancient population site (never exploited for 80 years)
- plantation of coconut and cacao where the fruit trees are usually multiply.

The number of fruit or nut trees was 74 in the non-exploited forest, 70 in the ancient site and 22 in the plantation. The quality of the cultivars was increasing from forest to plantation but the number of seedling was decreasing. This result confirms another study made in Santo (Grant Rosoman, personnal communication).

During the research, we have observed a decline of seedlings under the adult trees, an impoverishment of the knowledge of vernacular names from old people to young generation and an increasing destruction of mature trees under trends to make available land for yam crops.

2. THE VARIETY COLLECTION OF FRUIT AND NUT TREES

The variety collection of fruit and nut trees is now completed. We have given in this report the names of the informants who actually are taking care of the trees in each island. And we have indicated the best cultivars within each species.

All the informants are paid by ORSTOM and will be paid during the following year (on a one or two days work per month). This solution is a temporary one and a more stable solution has to be found, at least in the area where development of nut trees as cash crop will start. This collection is useful for many people:

1. The agronomists or the department of forestry may gather some material from it (seedlings or cuttings) in order to multiply them.
2. The stock, in a whole, can be compared with wild species found in the forest
3. The geneticians will find an available gene stock of the main species studied
4. The botanists would be able to collect new botanical specimens from it, in order to make the revision of some species
5. The biologists have now a localized collection for studies on plants of economic importance: flowering or fruiting period; needs of the plant; sexual habits etc...

This collection is a basic tool for many disciplines, as its biodiversity has to be protected or documented for conservation purposes. Because this biodiversity of fruit and nut trees represents a real heritage for Vanuatu it seems to us that the Environment Unit is the appropriate structure to take care of this collection and improve it.

CHAPTER 12: CONCLUSIONS

1. The fruit and nut trees cultivated or harvested in Vanuatu are numerous and diverse. This arboriculture has evolved over time, through continuous care by the past generations and is still very alive.
2. The intensive selection of fruits and nuts with desirable characteristics, over time and by generations of farmers, has produced giant fruits, has improved the sweetness of some fruits or the production yields of some trees and has induced some transformation in the floral biology of some species: *Canarium indicum* and *Canarium harveyi* have both evolved from being dioecious to polygamous.
3. Today, Vanuatu possess a gene pool of cultivars of *Canarium indicum*, *Canarium harveyi*, *Barringtonia edulis*, *Barringtonia procera*, *Barringtonia novae-hiberniae*, *Pometia pinnata*, *Inocarpus fagifer*, *Spondias dulcis* and *Terminalia catappa* and, to a lesser degree, *Syzygium malaccense*. The intra-specific variation of all these species have evolved through intensive selection.
4. Apart from this, Vanuatu also possesses two rare edible Sapotaceae: *B. cf fijiensis* and *B. sp* which need to be documented further. Local people in Vanuatu also possess numerous other fruit species, the knowledge to prepare some toxic species (*Pangium edule*, *Entada phaseoloides*) or preserve some other (*Canarium sp*; breadfruits, banana).
5. *Barringtonia procera*, *Barringtonia edulis*, *Canarium indicum*, *Spondias dulcis* and *Inocarpus fagifer* are cultivated throughout Vanuatu. *Burckella cf fijiensis* is cultivated in Futuna. All these species are cultivated for their edible fruits or nuts but also for their wood (*Canarium spp*) or as medicinal plants. Some species, like *Burckella obovata* or *Dracontomelon vitiense* are cultivated in some special areas to attract fruits bats. *Dracontomelon vitiense* is used as stakes for yam rope.
6. Fruit and nut trees enhance household food security in rural area. The lack of access to bush food in general and to fruit and nut trees in particular, engenders probably nutritional desequilibrium in urban populations.
7. Future economic development on fruits and nuts in Vanuatu should concentrate on *Canarium indicum*, *Barringtonia edulis* and *Terminalia catappa* because of their large distribution, their big yields and the presence of good cultivars within each species (given in the present report).

8. This economic development has to be done through coordination with the environnement unit in order to assure the conservation of the gene pool diversity.

9. The next step has to be the organization of the marketing and processing of the nuts. A lot of nuts are lost every year, because the production far exceeds the needs of the population. Some areas are willing to start the commercialisation of their nuts but the main obstacle is the shipping of this production. We recommend to contact the population of South-West bay in Malakula because their stock of *Canarium* seems to be of a very good quality (big yields, easy to open shell, big kernel, and numerous trees).

10. We suggest, if it is possible, to start agronomic study of theese nuts (by trial) and to start to plant new trees or, at least, to assure a minimum protection to the growing of seedlings, in some areas.

11. Informations about fruiting and flowering period of some species are missing in this report. An ongoing study, actualy in progress, will soon provides results on this important subject.

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FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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BARRINGTONIA

* ILE AMBAI

<i>Barringtonia edulis</i>	AMBAI	(Nduindui)	pele	pwuhagwaka	484	CSV1008
<i>Barringtonia edulis</i>	AMBAI	(Nduindui)	pele	pwuhagwaka	485	CSV1009
<i>Barringtonia edulis</i>	AMBAI	(Nduindui)	pele	piroki	481	CSV1004
<i>Barringtonia edulis</i>	AMBAI	(Nduindui)	pele	k'agwalefa	482	CSV1005
<i>Barringtonia edulis</i>	AMBAI	(Nduindui)	pele	gwatumandi	486	CSV1010
<i>Barringtonia procera</i>	AMBAI	(Nduindui)	pele	gwakara		
<i>Barringtonia procera</i>	AMBAI	(Nduindui)	pele	gwalakesa		
<i>Barringtonia procera</i>	AMBAI	(Nduindui)	pele	pwoli	474	CSV997
<i>Barringtonia</i> sp	AMBAI	(Nduindui)	pele	kanakaripi	473	CSV996

* ILE AMBRYM

<i>Barringtonia edulis</i>	AMBRYM	(S/E Ambrym)	tavarsal		224	CSV614
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(Dakaka)	tubu	ker	210	CSV600
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(Dakaka)	tubu	nalili	215	CSV605
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(Dakaka)	tubu	mermer	216	CSV606
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(Dakaka)	tubu	memale	202	CSV592
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(Dakaka)	tubu	viriviri	206	CSV596
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(S/E Ambrym)	taburka		237	CSV628
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(S/E Ambrym)	tabu	pili	222	CSV612
					225	CSV615
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(S/E Ambrym)	tabu	miyE	223	CSV613
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(S/E Ambrym)	tabu	rumael	228	CSV613
<i>Barringtonia novae-hiberniae</i>	AMBRYM	(S/E Ambrym)	tabu	reesu	229	CSV619
<i>Barringtonia procera</i>	AMBRYM	(Dakaka)	tubu	tirip	221	CSV611
<i>Barringtonia procera</i>	AMBRYM	(S/E Ambrym)	talep		226	CSV616
					231	CSV621
<i>Barringtonia procera</i>	AMBRYM	(S/E Ambrym)	talep	taboho	227	CSV617
<i>Barringtonia procera</i>	AMBRYM	(S/E Ambrym)	talep	mur	232	CSV622
<i>Barringtonia</i> sp	AMBRYM	(Dakaka)	tubu	an tomo	211	CSV601
<i>Barringtonia</i> sp	AMBRYM	(Dakaka)	tubu	reRa	212	CSV602
<i>Barringtonia</i> sp	AMBRYM	(S/E Ambrym)	tubu	raRa		

* ILE BANKS(GAUA)

<i>Barringtonia edulis</i>	BANKS(GAUA)	(Nume)	watag	malges	427	CSV935
<i>Barringtonia edulis</i>	BANKS(GAUA)	(Nume)	watag	wuswor	430	CSV938
<i>Barringtonia edulis</i>	BANKS(GAUA)	(Nume)	watag	vel	431	CSV940
<i>Barringtonia procera</i>	BANKS(GAUA)	(Nume)	watag	vulvere	432	CSV941
<i>Barringtonia racemosa</i>	BANKS(GAUA)	(Nume)	watag	watwataga		
<i>Barringtonia</i> sp	BANKS(GAUA)	(Nume)	watag	der tamat		
<i>Barringtonia</i> sp	BANKS(GAUA)	(Nume)	watag	me		
<i>Barringtonia</i> sp	BANKS(GAUA)	(Nume)	watag	wul		

* ILE BANKS(VNL)

<i>Barringtonia edulis</i>	BANKS(VNL)	(Mosina)	wotaG	tartar mene	157	CSV557
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FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
Barringtonia edulis	BANKS(VNL)	(Mosina)		wotaG	owal	150 CSV550
Barringtonia novae-hiberniae	BANKS(VNL)	(Mosina)		wotaG	sun	152 CSV552
Barringtonia procera	BANKS(VNL)	(Mosina)		wotaG	neretamat	160 CSV560
Barringtonia procera	BANKS(VNL)	(Mosina)		wotaG	wol	153 CSV553
Barringtonia procera	BANKS(VNL)	(Mosina)		wotag	tartar meme	188 CSV570
						197 CSV584
Barringtonia procera	BANKS(VNL)	(Mosina)		wotag	tartar malges	198 CSV585
Barringtonia racemosa	BANKS(VNL)	(Mosina)		wotaG	wonakbit	195 CSV582
Barringtonia sp	BANKS(VNL)	(Mosina)		wotaG	wotong	184 CSV564
* ILE EFATE						
Barringtonia edulis	EFATE	(Nord-Efate)		fil	tugul	383 CSV863
Barringtonia edulis	EFATE	(Nord-Efate)		fil	malakes	387 CSV867
Barringtonia edulis	EFATE	(Nord-Efate)		fil	miel	382 CSV862
Barringtonia edulis	EFATE	(Nord-Efate)		fil	tugul	385 CSV866
Barringtonia edulis	EFATE	(Nord-Efate)		fil	sarik	394 CSV874
Barringtonia edulis	EFATE	(Nord-Efate)		fil	warifurfur	395 CSV875
Barringtonia novae-hiberniae	EFATE	(Nord-Efate)		fil		384 CSV864
Barringtonia procera	EFATE	(Nord-Efate)		fil	batu	
Barringtonia procera	EFATE	(Nord-Efate)		bugor		379 CSV859
Barringtonia procera	EFATE	(Nord-Efate)		bugor		380 CSV860
Barringtonia racemosa	EFATE	(Nord-Efate)		fil	nges	
Barringtonia sp	EFATE	(Nord-Efate)		bugor	kas	
* ILE EMAE						
Barringtonia edulis	EMAE	(Tanamanga)		na-vila	oro	264 CSV689
Barringtonia novae-hiberniae	EMAE	(Tanamanga)		na-vila	kati	267 CSV692
Barringtonia novae-hiberniae	EMAE	(Tanamanga)		na-vila	kau	268 CSV693
Barringtonia novae-hiberniae	EMAE	(Tanamanga)		na-vila	memerona	263 CSV688
Barringtonia procera	EMAE	(Tanamanga)		na-vila	sokiana	
Barringtonia procera	EMAE	(Tanamanga)		na-vila	papatua	265 CSV690
Barringtonia sp	EMAE	(Tanamanga)		na-vila	miala	
* ILE EPI						
Barringtonia edulis	EPI	(Lewo)		tep	lop makaere	243 CSV634
Barringtonia novae-hiberniae	EPI	(Lewo)		kurgi	na memaen	244 CSV635
Barringtonia novae-hiberniae	EPI	(Lewo)		kurgi	malolo	242 CSV633
						251 CSV643
Barringtonia novae-hiberniae	EPI	(Lewo)		kurgi	karie	234 CSV630
Barringtonia procera	EPI	(Lewo)		tep	tan	
Barringtonia sp	EPI	(Lewo)		tep	malolo	
* ILE EPI(LM)						
Barringtonia edulis	EPI(LM)	(Lewo)		sep lop	yiwe	300 CSV762
Barringtonia edulis	EPI(LM)	(Lewo)		sep lop		298 CSV760

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE	ARBRE HERBIERS
Barringtonia edulis	EPI(LM)	(Lewo)	kurgi	305 CSV767
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	299 CSV761
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	296 CSV758
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	302 CSV764
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	308 CSV770
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	309 CSV771
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	310 CSV772
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	313 CSV775
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	314 CSV776
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	315 CSV777
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	316 CSV778
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	320 CSV782
Barringtonia novae-hiberniae	EPI(LM)	(Lewo)	kurgi	322 CSV784
Barringtonia procera	EPI(LM)	(Lewo)	sep	319 CSV781
* ILE ERROMANGO				
Barringtonia edulis	ERROMANGO	(Oru)	felnga	462 CSV981
Barringtonia edulis	ERROMANGO	(Oru)	felnga	465 CSV984
Barringtonia edulis	ERROMANGO	(Oru)	felnga	466 CSV985
Barringtonia edulis	ERROMANGO	(Oru)	felnga	469 CSV988
Barringtonia edulis sp	ERROMANGO	(Oru)	felnga	472 CSV991
* ILE FUTUNA				
Barringtonia edulis	FUTUNA	(Futuna)	fofoto	435 CSV965
Barringtonia procera	FUTUNA	(Futuna)	fofoto	434 CSV964
Barringtonia sp	FUTUNA	(Futuna)	fofoto	ura
* ILE MAEWO				
Barringtonia edulis	MAEWO	(Baetora)	woRotaga	tamburuta 405 CSV888
Barringtonia edulis	MAEWO	(Baetora)	woRotaga	memea 406 CSV889
Barringtonia edulis	MAEWO	(Baetora)	woRotaga	susului 409 CSV892
Barringtonia edulis	MAEWO	(Baetora)	woRotaga	susului 411 CSV894
Barringtonia edulis	MAEWO	(Baetora)	woRotaga	wora kwangi 417 CSV900
Barringtonia procera	MAEWO	(Baetora)	woRotaga	woRotaga
WOSA 407 CSV890				
Barringtonia procera	MAEWO	(Baetora)	woRotaga	fele bakewa 408 CSV891
Barringtonia procera	MAEWO	(Baetora)	woRotaga	wosa 410 CSV893
Barringtonia procera	MAEWO	(Baetora)	woRotaga	wosa raveangi 412 CSV895
Barringtonia procera	MAEWO	(Baetora)	woRotaga	woli 413 CSV896
Barringtonia sp	MAEWO	(Baetora)	woRotaga	tabanoi 403 CSV886
Barringtonia sp	MAEWO	(Baetora)	woRotaga	bari 404 CSV887
Barringtonia sp	MAEWO	(Baetora)	woRotaga	fele 420 CSV903
Barringtonia sp	MAEWO	(Baetora)	woRotaga	tamate
Barringtonia sp	MAEWO	(Baetora)	woRotaga	dau

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
* ILE MALAKULA					
Barringtonia edulis	MALAKULA	(Wala/Rano)	ndapwi	nevlagis	76 CSV475
Barringtonia edulis	MALAKULA	(Wala/Rano)	ndapwi	nevlangis	331 CSV798
					333 CSV800
					93
Barringtonia edulis	MALAKULA	(Wala/Rano)	ndapwi	nevlangis	324 CSV788
Barringtonia edulis	MALAKULA	(Ninde)	namase	mengaha	
Barringtonia novae-hiberniae	MALAKULA	(Wala/Rano)	ndapwi		104 CSV496
Barringtonia procera	MALAKULA	(Wala/Rano)	ndapwi	dibwitan	97 CSV492
					332 CSV799
Barringtonia procera	MALAKULA	(Wala/Rano)	ndapwi	amiveng	78 CSV477, CSV674
Barringtonia procera	MALAKULA	(Wala/Rano)	ndapwi	amiveng	77 CSV476, CSV673
Barringtonia procera	MALAKULA	(Wala/Rano)	ndapwi		75 CSV474, CSV672
					79 CSV478
Barringtonia procera	MALAKULA	(Wala/Rano)	ndapwi		84 CSV482, CSV676
Barringtonia racemosa	MALAKULA	(Wala/Rano)	ndapwi	neRenamRa	85 CSV483
* ILE MALAKULA(SWB)					
Barringtonia procera	MALAKULA(SWB(Ninde	)	namase	tari timiyale	
Barringtonia procera	MALAKULA(SWB(Ninde	)	namase	mande	
Barringtonia sp	MALAKULA(SWB(Ninde	)	namase	miyale	
* ILE MALAKULA-SWB					
Barringtonia edulis	MALAKULA-SWB(Ninde	)	namase	lapwe	512 CSV1041
Barringtonia novae-hiberniae	MALAKULA-SWB(Ninde	)	namase	miyale lowlow	507 CSV1036
Barringtonia procera	MALAKULA-SWB(Ninde	)	namase	tari	509 CSV1038
Barringtonia procera	MALAKULA-SWB(Ninde	)	namase	tari melkese	510 CSV1039
Barringtonia procera	MALAKULA-SWB(Ninde	)	namase	tari melkese	511 CSV1040
Barringtonia procera	MALAKULA-SWB(Ninde	)	namase	tari melkese	513 CSV1042
Barringtonia procera	MALAKULA-SWB(Ninde	)	namase	tari	514 CSV1043
Barringtonia sp	MALAKULA-SWB(Ninde	)	namase	melkese	493 CSV1020
Barringtonia sp	MALAKULA-SWB(Ninde	)	namase		503 CSV1032
* ILE MALO					
Barringtonia edulis	MALO	(Malo)	fale	hoRota	342 CSV821
Barringtonia edulis	MALO	(Malo)	fale	hoRota manda	338 CSV817
					339 CSV818
Barringtonia edulis	MALO	(Malo)	fale	hoRota	348 CSV827
					360 CSV840
Barringtonia procera	MALO	(Malo)	fale	mbisiroi	335 CSV814
Barringtonia procera	MALO	(Malo)	fale	woli	
Barringtonia procera	MALO	(Malo)	fale	malakensa	345 CSV624
					358 CSV838
Barringtonia procera	MALO	(Malo)	fale	vinvuso	336 CSV815
Barringtonia procera	MALO	(Malo)	fale	vole vinundai	344 CSV823
Barringtonia procera	MALO	(Malo)	fale	vuso vinundai	337 CSV816
Barringtonia procera	MALO	(Malo)	fale	vokivoki	356 CSV835

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
Barringtonia racemosa	MALO	(Malo	)	fale fale		
Barringtonia sp	MALO	(Malo	)	fale	hoRota	349 CSV828
						347 CSV826
* ILE NGUNA						
Barringtonia edulis	NGUNA	(Nord-Efate	)	na-vila		396 CSV876
* ILE PENTECOTE						
Barringtonia edulis	PENTECOTE	(Apma	)	vel	malgonis	28 CSV443,CSV802
						30
						1
Barringtonia edulis	PENTECOTE	(Apma	)	vel	sip kapkabarak	7 CSV421
Barringtonia edulis	PENTECOTE	(Apma	)	vel	temit	29 CSV803
Barringtonia edulis	PENTECOTE	(Apma	)	vel	meme (tememe)	2 AM002
						31
Barringtonia edulis	PENTECOTE	(Apma	)	vel	beke	46 CSV454
Barringtonia edulis	PENTECOTE	(Apma	)	vel	wasil temit	12 CSV429
Barringtonia novae-hiberniae	PENTECOTE	(Apma	)	vel	kaspa tememe	4 CSV424
Barringtonia novae-hiberniae	PENTECOTE	(Apma	)	vel	wasil tememe	8 CSV425
Barringtonia novae-hiberniae	PENTECOTE	(Apma	)	vel	wasil temit	24 CSV439,CSV806
Barringtonia novae-hiberniae	PENTECOTE	(Apma	)	vel	wotak tememe	42 CSV451,CSV804
						25 CSV440
Barringtonia procera	PENTECOTE	(Apma	)	vel	wo temere	CSV420
Barringtonia procera	PENTECOTE	(Apma	)	vel	wo temit	5 CSV422
Barringtonia procera	PENTECOTE	(Apma	)	vel	ta:nap	15 CSV447
						36
Barringtonia sp	PENTECOTE	(Apma	)	vel	kaspa temit	
Barringtonia sp	PENTECOTE	(Apma	)	vel	wasil temit	20 CSV435
Barringtonia sp	PENTECOTE	(Apma	)	vel	wowo	9 CSV426,CSV810
Barringtonia sp	PENTECOTE	(Apma	)	vel	bosvi	17 CSV433
Barringtonia sp	PENTECOTE	(Apma	)	vel	wotak temit	43
Barringtonia sp	PENTECOTE	(Apma	)	vel	kaehax (kaak)	
Barringtonia sp	PENTECOTE	(Apma	)	vel	bwas	
Barringtonia sp	PENTECOTE	(Apma	)	vel	kaspa tememe	26 CSV441
* ILE SANTO(BUT)						
Barringtonia edulis	SANTO(BUT)	(Butimas-Tur	)	Rot	vok	425 CSV922
						426 CSV923
* ILE TANNA						
Barringtonia edulis	TANNA	(Lenakel	)	nulnga	kaben	284 CSV734,CSV708
						277 CSV709
Barringtonia edulis	TANNA	(Lenakel	)	nulnga	ilavan	280 CSV700
Barringtonia edulis	TANNA	(Lenakel	)	nulnga	tekoplae	281 CSV701
Barringtonia edulis	TANNA	(Lenakel	)	nulnga	kavon	275 CSV710

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
Barringtonia edulis	TANNA	(Lenakel	)	nulnga	kakoplae	285 CSV705
Barringtonia sp	TANNA	(Lenakel	)	navingen	toēn	
* ILE TORRES						
Barringtonia edulis	TORRES	(Lo	)	nEvotaga	hugruvē	130 CSV527
Barringtonia edulis	TORRES	(Hiu	)	noutaga	mweI	145 CSV544
Barringtonia edulis	TORRES	(Lo	)	nEvotaga	wot	126 CSV524
Barringtonia novae-hiberniae	TORRES	(Lo	)	nEvotaga	wot	121 CSV519
Barringtonia procera	TORRES	(Lo	)	nEvotaga	velangehē	131 CSV528
Barringtonia procera	TORRES	(Lo	)	nEvotaga	velangehē	119 CSV517
Barringtonia procera	TORRES	(Lo	)	nEvotaga	velangehē	124 CSV522
Barringtonia sp	TORRES	(Lo	)	nEvotaga	mweI	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
BURCKELLA					
* ILE AMBAI					
Burckella	obovata	AMBAI	(Ndūindui)	naduledule	483 CSV1006
* ILE AMBRYM					
Burckella	obovata	AMBRYM	(Dakaka)	taviro	
Burckella	obovata	AMBRYM	(Dakaka)	taviro	meta
Burckella	obovata	AMBRYM	(S/E Ambrym)	nat	wite teviev 234 CSV625
Burckella	obovata	AMBRYM	(S/E Ambrym)	nat	wite terumwe 233 CSV624
* ILE BANKS(GAUA)					
Burckella	obovata	BANKS(GAUA)	(Nume)	nat	
* ILE BANKS(VNL)					
Burckella	obovata	BANKS(VNL)	(Mosina)	not	las 177 CSV573
Burckella	obovata	BANKS(VNL)	(Mosina)	not	nokor 176 CSV572
* ILE EFATE					
Burckella	obovata	EFATE	(Nord-Efate)	nat	
* ILE EMAE					
Burckella	obovata	EMAE	(Tanamanga)	na-nato	vara 271 CSV696
Burckella	obovata	EMAE	(Tanamanga)	na-nato	
* ILE EPI					
Burckella	obovata	EPI	(Lewo)	naR	
* ILE EPI(LM)					
Burckella	obovata	EPI(LM)	(Lewo)	ngaru	piyavi 307 CSV769
Burckella	obovata	EPI(LM)	(Lewo)	ngaru	312 CSV774
* ILE ERROMANGO					
Burckella	obovata	ERROMANGO	(Oru)	yetu	454 CSV973
Burckella	obovata	ERROMANGO	(Oru)	yetu	470 CSV989
* ILE FUTUNA					
Burckella	fijiensis	FUTUNA	(Futuna)	bau	CSV960
* ILE MAEWO					
Burckella	obovata	MAEWO	(Baetora)	natu	natu
Burckella	obovata	MAEWO	(Baetora)	natu	kabe 421 CSV906
* ILE MALAKULA					
Burckella	obovata	MALAKULA	(Wala/Rano)	niuR	74 CSV473
Burckella	obovata	MALAKULA	(Wala/Rano)	niuR	87 CSV485
Burckella	obovata	MALAKULA	(Wala/Rano)	niuR	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
Burckella	obovata	MALAKULA	(Wala/Rano)	niuR		
* ILE MALAKULA(SWB						
Burckella	obovata	MALAKULA(SWB(Ninde	)	nenet	djuch	
Burckella	obovata	MALAKULA(SWB(Ninde	)		doHoy	
* ILE MALAKULA-SWB						
Burckella	sp	MALAKULA-SWB(Ninde	)	nenet doHoy	lapwe	498 CSV1026
* ILE MALO						
Burckella	obovata	MALO	(Malo)	sovwa		
* ILE NGUNA						
Burckella	obovata	NGUNA	(Nord-Efate)	nanatu		
* ILE PENTECOTE						
Burckella	obovata	PENTECOTE	(Apma)	wanet	kapkau	
Burckella	obovata	PENTECOTE	(Apma)	wanet	tewewep	
Burckella	obovata	PENTECOTE	(Apma)	wanet	temrarap	
Burckella	obovata	PENTECOTE	(Apma)	wanet	wanet	41
* ILE SANTO						
Burckella	obovata	SANTO	(Farsaf)	nat		
Burckella	obovata	SANTO	(Farsaf)	nat	fok	
Burckella	obovata	SANTO	(Farsaf)	nat	ful	
* ILE TANNA						
Burckella	obovata	TANNA	(Lenakel)	nieR	bilaun	279 CSV699
Burckella	obovata	TANNA	(Lenakel)	nieR	keñulo	
* ILE TORRES						
Burckella	obovata	TORRES	(Lo)	nenot	towen	
Burckella	obovata	TORRES	(Lo)	nenot	kuse	
Burckella	obovata	TORRES	(Hiu)	nEnot	kwEse	139 CSV538
Burckella	obovata	TORRES	(Hiu)	nEnot		142 CSV541

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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CANARIUM

* ILE AMBAI

Canarium	indicum	AMBAI	(Nduindui)	na-ngai	katigwaka	475	CSV998
Canarium	indicum	AMBAI	(Nduindui)	na-ngai	tokoro		
Canarium	indicum	AMBAI	(Nduindui)	na-ngai	gwatumadi	480	CSV1003

* ILE AMBRYM

Canarium	indicum	AMBRYM	(Dakaka)	wele	ker	205	CSV595
Canarium	indicum	AMBRYM	(Dakaka)	wele	ten	213	CSV603
Canarium	indicum	AMBRYM	(S/E Ambrym)	ngay	terumwe	235	CSV626
Canarium	sp	AMBRYM	(Dakaka)	wowele			
Canarium	sp	AMBRYM	(Dakaka)	wele	womael		
Canarium	sp	AMBRYM	(Dakaka)	wele	woparal		
Canarium	sp	AMBRYM	(S/E Ambrym)	ngay	napa		

* ILE BANKS(GAUA)

Canarium	harveyi	BANKS(GAUA)	(Nume)	nga	lalap	428	CSV936
Canarium	harveyi	BANKS(GAUA)	(Nume)	nga	bunbul	429	CSV937
Canarium	indicum	BANKS(GAUA)	(Nume)	nga	pkur	433	CSV943
Canarium	vanikoroense	BANKS(GAUA)	(Nume)	nga			CSV945

* ILE BANKS(VNL)

Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie	nun	149	CSV549
Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie	lowlow	158	CSV558
Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie	wulme	159	CSV559
Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie	kwotegap	179	CSV575
Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie	bwetikab	199	CSV586
Canarium	harveyi	BANKS(VNL)	(Mosina)	ngie		191	CSV578
Canarium	indicum	BANKS(VNL)	(Mosina)	ngie	tewtew	151	CSV551, CSV644
						181	CSV561
Canarium	indicum	BANKS(VNL)	(Mosina)	ngie		178	CSV574
Canarium	indicum	BANKS(VNL)	(Mosina)	ngie		192	CSV579, CSV647
Canarium	indicum	BANKS(VNL)	(Mosina)	ngie		193	CSV580

* ILE EFATE

Canarium	indicum	EFATE	(Nord-Efate)	angai	alapa	385	CSV865
Canarium	indicum	EFATE	(Nord-Efate)	angai		389	CSV869
Canarium	indicum	EFATE	(Nord-Efate)	angai		392	CSV872
Canarium	salomonense sp	EFATE	(Nord-Efate)	angai	diamas	390	CSV870
Canarium	sp	EFATE	(Nord-Efate)	angai	tolou		

* ILE EMAE

Canarium	harveyi	EMAE	(Tanananga)	na-ngay	oro	257	CSV682
Canarium	harveyi	EMAE	(Tanananga)	na-ngay	matou	258	CSV683
Canarium	harveyi	EMAE	(Tanananga)	na-ngay	nevate	259	CSV684
Canarium	harveyi	EMAE	(Tanananga)	na-ngay	makanda	266	CSV691

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS	
Canarium	indicum	EMAE	(Tanamanga)	na-ngay	talao	260	CSV685
Canarium	indicum	EMAE	(Tanamanga)	na-ngay	kati	262	CSV687
Canarium	indicum	EMAE	(Tanamanga)	na-ngay	wogawuro	272	CSV697
Canarium	sp	EMAE	(Tanamanga)	na-ngay	masibay		
Canarium	sp	EMAE	(Tanamanga)	na-ngay	popoti		
Canarium	vulgare	EMAE	(Tanamanga)	na-ugay	nemarau	261	CSV686
* ILE EPI							
Canarium	indicum	EPI	(Lewo)	ngi	karie	241	CSV632
Canarium	indicum	EPI	(Lewo)	ngi	keviu	240	CSV631
Canarium	indicum	EPI	(Lewo)	ngi		303	CSV735
Canarium	sp	EPI	(Lewo)	agi	puindi		
Canarium	sp	EPI	(Lewo)	ngi	Reravike		
Canarium	sp	EPI	(Lewo)	ngi	kayuwa		
Canarium	sp	EPI	(Lewo)	bgi	susun		
Canarium	sp	EPI	(Lewo)	ngi	maRapala		
Canarium	sp	EPI	(Lewo)	ngi	lualima		
* ILE ERROMANGO							
Canarium	harveyi	ERROMANGO	(Oru)	nangai	nangon	461	CSV980
Canarium	indicum	ERROMANGO	(Oru)	nangai		455	CSV974
Canarium	indicum	ERROMANGO	(Oru)	nangai		464	CSV983
Canarium	sp	ERROMANGO	(Oru)	nangai	lavu		
* ILE FUTUNA							
Canarium	harveyi	FUTUNA	(Futuna)	ngai			CSV961
* ILE MAEWO							
Canarium	harveyi	MAEWO	(Baetora)	na-gai	takawa	414	CSV897
Canarium	indicum	MAEWO	(Baetora)	na-gai		415	CSV898
Canarium	indicum	MAEWO	(Baetora)	na-gai		402	CSV883
Canarium	indicum	MAEWO	(Baetora)	na-gai	a" go	416	CSV899
Canarium	indicum	MAEWO	(Baetora)	na-gai	kati	418	CSV901
Canarium	indicum	MAEWO	(Baetora)	na-gai	tirigu	419	CSV902
Canarium	indicum	MAEWO	(Baetora)	na-gai	bisugue	422	CSV907
Canarium	indicum	MAEWO	(Baetora)	na-gai	bisugue	422	CSV907
* ILE MALAKULA							
Canarium	harveyi	MALAKULA	(Wala/Rano)	nenga		96	CSV491, CSV657
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga	sets	76	CSV469, CSV655
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		102	CSV495
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga	timbombo	94	CSV490
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		68	CSV467
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		69	CSV468
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		330	CSV797
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		83	CSV481
Canarium	indicum	MALAKULA	(Wala/Rano)	nenga		81	CSV479, CSV656

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
Canarium indicum		MALAKULA (Wala/Rano)		nenga	Res	325 CSV792
* ILE MALAKULA-SWB						
Canarium harveyi		MALAKULA-SWB(Ninde)		nengi	lakon	491 CSV1018
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	tes	492 CSV1019
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	lit	494 CSV1021
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	buac	495 CSV1022
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	gas malala	496 CSV1023
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	momo	497 CSV1024
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	ya memen	499 CSV1027
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	lum	500 CSV1028
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	pangkahu	501 CSV1030
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	saHruwo	502 CSV1031
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	toHuwo	504 CSV1033
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	ya numboHo	506 CSV1035
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	peH	505 CSV1034
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	nowolban	506 CSV1037
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	dohroy	515 CSV1044
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	panke	516 CSV1045
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	bwas barabarap	517 CSV1046
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	wulahk	518 CSV1047
Canarium indicum		MALAKULA-SWB(Ninde)		ningi	sivire	519 CSV1048
* ILE MALO						
Canarium indicum		MALO (Malo)		ngaingai	hati	352 CSV831
Canarium indicum		MALO (Malo)		ngaingai	mbisiroi	346 CSV825
Canarium indicum		MALO (Malo)		ngaingai		353 CSV832
Canarium indicum		MALO (Malo)		ngaingai		354 CSV833
Canarium indicum		MALO (Malo)		ngaingai		355 CSV834
* ILE NGUNA						
Canarium harveyi		NGUNA (Nord-Efate)		nangai		397 CSV877
Canarium harveyi		NGUNA (Nord-Efate)		nangai	moli	398 CSV878
Canarium harveyi		NGUNA (Nord-Efate)		nangai	salomon	399 CSV879
Canarium harveyi		NGUNA (Nord-Efate)		nangai		400 CSV880
Canarium harveyi		NGUNA (Nord-Efate)		nangai		401 CSV882
* ILE PENTECOTE						
Canarium harveyi		PENTECOTE (Apma)		waknga	lo	47 CSV456,CSV807
						18
Canarium indicum		PENTECOTE (Apma)		waknga	kat	19 CSV434
						48 CSV457
Canarium indicum		PENTECOTE (Apma)		waknga	bo	5 CSV430
Canarium indicum		PENTECOTE (Apma)		waknga	sapsap	27 CSV442
Canarium indicum		PENTECOTE (Apma)		waknga	bwas	44 CSV452
Canarium sp		PENTECOTE (Apma)		waknga	atsalan	
Canarium sp		PENTECOTE (Apma)		waknga	gaspo:	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS	
Canarium sp		PENTECOTE	(Apma)	waknga	tewewep		
Canarium vitiense		PENTECOTE	(Apma)	katpol	bini	45	CSV453
* ILE TONGOA							
Canarium harveyi	TONGOA	(nakanamanga)		nagae	nimarav	438	RMV1
Canarium harveyi	TONGOA	(nakanamanga)		nagae	ni-efate	439	RMV2
Canarium harveyi	TONGOA	(nakanamanga)		nagae	mokandu	440	RMV3
Canarium harveyi	TONGOA	(nakanamanga)		nagae	ni-efate	441	RMV4
Canarium harveyi	TONGOA	(nakanamanga)		nagae	telau	443	RMV6
Canarium harveyi	TONGOA	(nakanamanga)		nagae	soango	444	RMV7
Canarium vulgare sp	TONGOA	(nakanamanga)		nagae	motua moai	442	RMV5
* ILE TORRES							
Canarium harveyi	TORRES	(Lo)		negeR	wot	127	CSV525
Canarium indicum	TORRES	(Hiu)		negeR	tawE	144	CSV543
Canarium sp	TORRES	(Lo)		negeR	gare		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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DRACONTOMELON VITIENSE

* ILE AMBAI

<i>Dracontomelon vitiense</i>	AMBAI	(Nduindui)	katambolo	477	CSV1000
<i>Dracontomelon vitiense</i>	AMBAI	(Nduindui)	katambolo	478	CSV1001

* ILE AMBRYM

<i>Dracontomelon vitiense</i>	AMBRYM	(Dakaka)	mel	po	214	CSV604
<i>Dracontomelon vitiense</i>	AMBRYM	(Dakaka)	mel	ten		
<i>Dracontomelon vitiense</i>	AMBRYM	(Dakaka)	mel	wobi	208	CSV598
<i>Dracontomelon vitiense</i>	AMBRYM	(S/E Ambrym)	malowus			
<i>Dracontomelon vitiense</i>	AMBRYM	(S/E Ambrym)	mal		230	CSV620

* ILE BANKS(GAUA)

<i>Dracontomelon vitiense</i>	BANKS(GAUA)	(Nume)	wera
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* ILE BANKS(VNL)

<i>Dracontomelon vitiense</i>	BANKS(VNL)	(Mosina)	woro	154	CSV554
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* ILE EFATE

<i>Dracontomelon vitiense</i>	EFATE	(Nord-Efate)	ne-Rou	391	CSV871
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* ILE EMAE

<i>Dracontomelon vitiense</i>	EMAE	(Tanananga)	na-Rau		
<i>Dracontomelon vitiense</i>	EMAE	(Tanananga)	na-Rau	pakura	

* ILE EPI

<i>Dracontomelon vitiense</i>	EPI	(Lewo)	lu	na-tarakak	249	CSV641
<i>Dracontomelon vitiense</i>	EPI	(Lewo)	lu	na-krekavju	248	CSV639
<i>Dracontomelon vitiense</i>	EPI	(Lewo)	lu	nameto		

* ILE EPI(LM)

<i>Dracontomelon vitiense</i>	EPI(LM)	(Lewo)	lu	kopwi	323	CSV785
<i>Dracontomelon vitiense</i>	EPI(LM)	(Lewo)	lu		311	CSV773

* ILE ERROMANGO

<i>Dracontomelon vitiense</i>	ERROMANGO	(Oru)	na-Rak		458	CSV977
<i>Dracontomelon vitiense</i>	ERROMANGO	(Oru)	na-Rak	yat	457	CSV966

* ILE FUTUNA

<i>Dracontomelon vitiense</i>	FUTUNA	(Futuna)	taveRao
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* ILE MAEWO

<i>Dracontomelon vitiense</i>	MAEWO	(Baetora)	tangola		
<i>Dracontomelon vitiense</i>	MAEWO	(Baetora)	tangola	gonamate	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE	ARBRE HERBIERS
* ILE MALAKULA				
Dracontomelon vitiense	MALAKULA	(Wala/Rano)	netapol	61 CSV790
				62 CSV791 - CSV463
Dracontomelon vitiense	MALAKULA	(Wala/Rano)	netapol	106 CSV498
Dracontomelon vitiense	MALAKULA	(Wala/Rano)	netapol	60
Dracontomelon vitiense	MALAKULA	(Wala/Rano)	netapol	105 CSV497
				103
* ILE MALAKULA(SWB)				
Dracontomelon vitiense	MALAKULA(SWB(Ninde	)	na-ru	lape
Dracontomelon vitiense	MALAKULA(SWB(Ninde	)	na-ru	
* ILE MALO				
Dracontomelon vitiense	MALO	(Malo)	Ratambola	vuso
Dracontomelon vitiense	MALO	(Malo)	Ratambola	ndaiga
Dracontomelon vitiense	MALO	(Malo)	Ratambola	tambai
359 CSV831				
* ILE PENTECOTE				
Dracontomelon vitiense	PENTECOTE	(Apma)	katpol	beta
Dracontomelon vitiense	PENTECOTE	(Apma)	katpol	tewewep
Dracontomelon vitiense	PENTECOTE	(Apma)	katpol	mwetak
39 CSV449				
* ILE SANTO				
Dracontomelon vitiense	SANTO	(Farsaf)	atapol	
* ILE TANNA				
Dracontomelon vitiense	TANNA	(Lenakel)	novil	293 CSV740
* ILE TORRES				
Dracontomelon vitiense	TORRES	(Lo)	n€Ro	
Dracontomelon vitiense	TORRES	(Lo)	n€Ro	pel
123 CSV521				

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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INOCARPU FAGIFER

* ILE AMBAI

Inocarpus	fagifer	AMBAI	(Nduindu))	magwe	daile		
Inocarpus	fagifer	AMBAI	(Nduindui)	)	magwe		409	CSV1016

* ILE AMBRYM

Inocarpus	fagifer	AMBRYM	(Dakaka	)	map	mere	203	CSV593
Inocarpus	fagifer	AMBRYM	(Dakaka	)	map	so	204	CSV594
Inocarpus	fagifer	AMBRYM	(Dakaka	)	map		209	CSV599
Inocarpus	fagifer	AMBRYM	(S/E Ambrym	)	map	maboho		

Inocarpus	fagifer	AMBRYM	(S/E Ambrym	)	map	vet		
Inocarpus	fagifer	AMBRYM	(S/E Ambrym	)	map	vili		
Inocarpus	fagifer	AMBRYM	(S/E Ambrym)	map	mareali	238	CSV629

* ILE BANKS(GAUA)

Inocarpus	fagifer	BANKS(GAUA)	(Nume)	mak			
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* ILE BANKS(VNL)

Inocarpus	fagifer	BANKS(VNL)	(Mosina)	mwiak	tangalngal	183	CSV563
Inocarpus	fagifer	BANKS(VNL)	(Mosina	)	mwiak	menc	148	CSV548
Inocarpus	fagifer	BANKS(VNL)	(Mosina	)	mwiak	worangrang	155	CSV555
Inocarpus	fagifer	BANKS(VNL)	(Mosina	)	mwiak	kwagkwag	182	CSV562
Inocarpus	fagifer	BANKS(VNL)	(Mosina	)	mwiak	malges	194	CSV581
Inocarpus	fagifer	BANKS(VNL)	(Mosina	)	mwiak	lowlowo	196	CSV583

* ILE EFATE

Inocarpus	fagifer	EFATE	(Nord-Efate	)	ne-mak	lafkir		
Inocarpus	fagifer	EFATE	(Nord-Efate	)	ne-mak	tangel		
Inocarpus	fagifer	EFATE	(Nord-Efate	)	ne-mak	wases		
Inocarpus	fagifer	EFATE	(Nord-Efate	)	ne-mak	mak-lol		

* ILE EMAE

Inocarpus	fagifer	EMAE	(Tanananga	)	na-mabwe	nakoau		
Inocarpus	fagifer	EMAE	(Tanananga	)	na-mabwe	sisak		
Inocarpus	fagifer	EMAE	(Tanananga	)	na-mabwe	nawanawa		

* ILE EPI

Inocarpus	fagifer	EPI	(Lewo	)	kinaye	na-menaen	245	CSV636
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	mleleRu	247	CSV638
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	meresului		
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	ipisona		
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	imalum		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS	
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	imwanding		
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	loe		
Inocarpus	fagifer	EPI	(Lewo	)	kinaye	ipiyawa		
* ILE EPI(LM)								
Inocarpus	fagifer	EPI(LM)	(Lewo	)	kinaye	yol	301	CSV763
Inocarpus	fagifer	EPI(LM)	(Lewo	)	kinaye	me	297	CSV759
Inocarpus	fagifer	EPI(LM)	(Lewo	)	kinaye		304	CSV766
Inocarpus	fagifer	EPI(LM)	(Lewo	)	kinaye	sandiadike	366	CSV768
* ILE ERROMANGO								
Inocarpus	fagifer	ERROMANGO	(Oru	)	nowane	namande		
Inocarpus	fagifer	ERROMANGO	(Oru	)	nowane	sesul	471	CSV990
Inocarpus	fagifer	ERROMANGO	(Oru	)	nowane	numlamkao	468	CSV987
Inocarpus	fagifer	ERROMANGO	(Oru	)	nowane		457	CSV976
							456	CSV975
* ILE FUTUNA								
Inocarpus	fagifer	FUTUNA	(Futuna	)	ifi	koka		
Inocarpus	fagifer	FUTUNA	(Futuna	)	ifi	mara		
Inocarpus	fagifer	FUTUNA	(Futuna	)	ifi	ponovai		
* ILE MAEWO								
Inocarpus	fagifer	MAEWO	(Baetora	)	mague	riringi		
Inocarpus	fagifer	MAEWO	(Baetora	)	mague	logo		
* ILE MALAKULA								
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	nibem laets	100	CSV786
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	amiveng	059	CSV462
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	wok		
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	namalew		
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	nawas		
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	nileveng	326	CSV793
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	nibem laets	063	
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	nibem laets		
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies		071	CSV739
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	amiveng	080	CSV787
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	amiveng	065	
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies	amiveng	066	CSV465
Inocarpus	fagifer	MALAKULA	(Wala/Rano	)	nies		327	CSV794
* ILE MALAKULA(SWB)								
Inocarpus	fagifer	MALAKULA(SWB(Ninde	)		nambwe	dam		
Inocarpus	fagifer	MALAKULA(SWB(Ninde	)		nambwe	melkese		
Inocarpus	fagifer	MALAKULA(SWB(Ninde	)		nambwe	lit		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
Inocarpus	fagifer	MALAKULA(SWB)(Ninde)	)	mambwe		miyale
* ILE MALO						
Inocarpus	fagifer	MALO (Malo	)	mambwe		voxe
Inocarpus	fagifer	MALO (Malo	)	mambwe		vora
Inocarpus	fagifer	MALO (Malo	)	mambwe		sise
Inocarpus	fagifer	MALO (Malo	)	mambwe		wari
Inocarpus	fagifer	MALO (Malo	)	mambwe		tagotagove
* ILE PENTECOTE						
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		teneme
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	003	CSV808
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	040	CSV450
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	010	CSV427
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	038	
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		dun
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		barabo
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		karo
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		sabongbong
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		waros
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		batsu bwihil
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		bo
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		nakas
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		ribwet
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		wikade
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	37	CSV448
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		bosvi:
Inocarpus	fagifer	PENTECOTE (Apma	)	maba		batekeltekel
Inocarpus	fagifer	PENTECOTE (Apma	)	maba	49	CSV450bis
* ILE SANTO						
Inocarpus	fagifer	SANTO (Farsaf	)	talis		kar
Inocarpus	fagifer	SANTO (Farsaf	)	talis		seis
Inocarpus	fagifer	SANTO (Farsaf	)	talis		fok
* ILE TANNA						
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai	294	CSV741
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai	274	CSV713
					282	CSV711
					275	CSV712
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		pometia
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		piko
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		kasuwak
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		setui
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		apwakasisak
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		yasiya
Inocarpus	fagifer	TANNA (Lenakel	)	nukwanai		bapin

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARÈRE HERBIERS	
Inocarpus	fagifer	TANNA	(Lenakel	)	nukwanai	pwiling	pwien
Inocarpus	fagifer	TANNA	(Lenakel	)	nukwanai	pwép	295 CSV706
Inocarpus	fagifer	TANNA	(Lenakel	)	nukwanai		273 CSV714
							289 CSV716
							288 CSV715
Inocarpus	fagifer	TANNA	(Lenakel	)	nukwanai		290 CSV733
* ILE TORRES							
Inocarpus	fagifer	TORRES	(Lo	)	néméuk		128 CSV526
Inocarpus	fagifer	TORRES	(Hiu	)	némek		146 CSV545
Inocarpus	fagifer	TORRES	(Lo	)	nèmeuk		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE	ARBRE HERBIERS
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POMETIA PINNATA

* ILE AMBAI

Pometia	pinnata	AMBAI	(Nduindui)	na-nda	moli
Pometia	pinnata	AMBAI	(Nduindui)	na-nda	hihe
Pometia	pinnata	AMBAI	(Nduindui)	na-nda	matakambu

* ILE AMBRYM

Pometia	pinnata	AMBRYM	(Dakaka)	nda	fwel
Pometia	pinnata	AMBRYM	(Dakaka)	ada	buag
Pometia	pinnata	AMBRYM	(Dakaka)	nda	beta
Pometia	pinnata	AMBRYM	(Dakaka)	nda	woma
Pometia	pinnata	AMBRYM	(S/E Ambrym)	Rao	Ravetei
Pometia	pinnata	AMBRYM	(S/E Ambrym)	Raover	
Pometia	pinnata	AMBRYM	(S/E Ambrym)	Rao	rabong

* ILE BANKS(GAUA)

Pometia	pinnata	BANKS(GAUA)	(Nume)	wuten	malges
Pometia	pinnata	BANKS(GAUA)	(Nume)	wuten	lolou

* ILE BANKS(VNL)

Pometia	pinnata	BANKS(VNL)	(Mosina)	tawen	malges
Pometia	pinnata	BANKS(VNL)	(Mosina)	tawen	tememe

* ILE EFAITE

Pometia	pinnata	EFATE	(Nord-Efate)	nda	tamet nar
Pometia	pinnata	EFATE	(Nord-Efate)	nda	xakes

* ILE EMAE

Pometia	pinnata	EMAE	(Tanamanga)	na-tao	paininga
Pometia	pinnata	EMAE	(Tanamanga)	na-tao	sisak
Pometia	pinnata	EMAE	(Tanamanga)	na-tao	memerona
Pometia	pinnata	EMAE	(Tanamanga)	na-tao	toro

* ILE EPI

Pometia	pinnata	EPI	(Lewo)	kilata	mamaen
Pometia	pinnata	EPI	(Lewo)	kilata	bong
Pometia	pinnata	EPI	(Lewo)	kilata	samoli
Pometia	pinnata	EPI	(Lewo)	kilata	sapopong
Pometia	pinnata	EPI	(Lewo)	kilata	sakundupipiyu
Pometia	pinnata	EPI	(Lewo)	kilata	sakula

* ILE ERROMANGO

Pometia	pinnata	ERROMANGO	(Oru)	dao	
Pometia	pinnata	ERROMANGO	(Oru)	dao	milvang

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
* ILE FUTUNA						
Pometia pinnata		FUTUNA (Futuna)		tauwa	mano	
Pometia pinnata		FUTUNA (Futuna)		tauwa	koka	
Pometia pinnata		FUTUNA (Futuna)		tauwa	tupou	
* ILE MAEWO						
Pometia pinnata		MAEWO (Baetora)		dalawa	malakesara	
Pometia pinnata		MAEWO (Baetora)		dalawa	mataRombu	
* ILE MALAKULA						
Pometia pinnata		MALAKULA (Wala/Rano)		Ra	mtap	90
Pometia pinnata		MALAKULA (Wala/Rano)		Ra	pteB	101
Pometia pinnata		MALAKULA (Wala/Rano)		Ra	rases	
Pometia pinnata		MALAKULA (Wala/Rano)		Ra	neatedaRo	
Pometia pinnata		MALAKULA (Wala/Rano)		Ra	neviso dents	95 CSV660
* ILE MALAKULA(SWB						
Pometia pinnata		MALAKULA(SWB(Ninde)		ne-ndi	sivele	
Pometia pinnata		MALAKULA(SWB(Ninde)		ne-ndi		
* ILE MALO						
Pometia pinnata		MALO (Malo)		ndsaria	burokin baike	
Pometia pinnata		MALO (Malo)		ndsaria	meli	
Pometia pinnata		MALO (Malo)		ndsaria	tolojimalao	
Pometia pinnata		MALO (Malo)		ndaaria	Vilagambo	
Pometia pinnata		MALO (Malo)		ndsaria	Roke	
Pometia pinnata		MALO (Malo)		ndsaria	tandoria	
Pometia pinnata		MALO (Malo)		ndsaria	malahensa	
Pometia pinnata		MALO (Malo)		ndsaria	djeri	
* ILE PENTECOTE						
Pometia pinnata		PENTECOTE (Apma)		lislis	temene	
Pometia pinnata		PENTECOTE (Apma)		lislis	tebit	
Pometia pinnata		PENTECOTE (Apma)		lislis		33
* ILE SANTO						
Pometia pinnata		SANTO (Farsaf)		tsiri	kar	
Pometia pinnata		SANTO (Farsaf)		tsiri	fok	
Pometia pinnata		SANTO (Farsaf)		tsiri	lolobar	
* ILE TANNA						
Pometia pinnata		TANNA (Lenakel)		nativ	mapfa	292 CSV735
Pometia pinnata		TANNA (Lenakel)		nativ		293 CSV734
Pometia pinnata		TANNA (Lenakel)		nativ		
* ILE TORRES						
Pometia pinnata		TORRES (Lo)		ne-tawE	hi	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE		ARBRE HERBIERS
Pometia pinnata	TORRES (Lo)		ne-taw€	pel	135 CSV534
Pometia pinnata	TORRES (Lo)		ne-taw€	miyig€	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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SPONDIAS DULCIS

* ILE AMBAI

Spondias	dulcis	AMBAI	(Nduindui)	uhi pohoki	dandamo
Spondias	dulcis	AMBAI	(Nduindui)	uhi	ango
Spondias	dulcis	AMBAI	(Nduindui)	uhi pohoki	479 CSV1002

* ILE AMBRYM

Spondias	dulcis	AMBRYM	(Dakaka)	paor	ngorngor
Spondias	dulcis	AMBRYM	(Dakaka)	paor	awerere
Spondias	dulcis	AMBRYM	(Dakaka)	paor	ten
Spondias	dulcis	AMBRYM	(S/E Ambrym)	homal	tereli
Spondias	dulcis	AMBRYM	(S/E Ambrym)	homal	telep

* ILE BANKS(GAUA)

Spondias	dulcis	BANKS(GAUA)	(Nume)	wes	dam
Spondias	dulcis	BANKS(GAUA)	(Nume)	wes	dorangrang
Spondias	dulcis	BANKS(GAUA)	(Nume)	wes	

* ILE BANKS(VNL)

Spondias	dulcis	BANKS(VNL)	(Mosina)	ur	156 CSV556,CSV650
Spondias	dulcis	BANKS(VNL)	(Mosina)	ur	165 CSV577,CSV651
Spondias	dulcis	BANKS(VNL)	(Mosina)	ur	185 CSV567,CSV652

* ILE EFATE

Spondias	dulcis	EFATE	(Nord-Efate)	ne-mal	kon
Spondias	dulcis	EFATE	(Nord-Efate)	ne-mal	kas
Spondias	dulcis	EFATE	(Nord-Efate)	ne-mal	393 CSV873

* ILE EMAE

Spondias	dulcis	EMAE	(Tanananga)	na-mali	256 CSV681
Spondias	dulcis	EMAE	(Tanananga)	na-mali	254 CSV679
Spondias	dulcis	EMAE	(Tanananga)	na-mali	255 CSV680
Spondias	dulcis	EMAE	(Tanananga)	na-mali	aloara

* ILE EPI

Spondias	dulcis	EPI	(Lewo)	malma	yawi
Spondias	dulcis	EPI	(Lewo)	malma	tarakan

* ILE EPI(LM)

Spondias	dulcis	EPI(LM)	(Lewo)	malma	317 CSV779
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* ILE ERROMANGO

Spondias	dulcis	ERROMANGO	(Oru)	ne-vi	aangon
Spondias	dulcis	ERROMANGO	(Oru)	ne-vi	459 CSV978

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)			NOM VERNACULAIRE		ARBRE MENTIONNÉ
* ILE FUTUNA							
Spondias	dulcis	FUTUNA	(Futuna	)	na-vi		
* ILE MAEWO							
Spondias	dulcis	MAEWO	(Baetora	)	wisa	damu	
Spondias	dulcis	MAEWO	(Baetora	)	wisa	vatu	
* ILE MALAKULA							
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		56 CSV460,CSV511
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton	mberaan	55 CSV459,CSV509,CSV665
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		58 CSV510,CSV667
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		72 CSV471,CSV507,CSV668
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		73 CSV472,CSV508,CSV669
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		86 CSV494,CSV513,CSV570
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton	meinator	115 CSV506,CSV661
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		57 CSV461,CSV512,CSV666
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		116 CSV514,CSV662
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		117 CSV515,CSV663
Spondias	dulcis	MALAKULA	(Wala/Rano	)	naus-borton		118 CSV516,CSV664
* ILE MALAKULA(SWB							
Spondias	dulcis	MALAKULA(SWB(Ninde		)	nan tsoHwoi		
* ILE MALO							
Spondias	dulcis	MALO	(Malo	)	Resi	magombo	
Spondias	dulcis	MALO	(Malo	)	Resi	pareholo	
Spondias	dulcis	MALO	(Malo	)	Resi	voke	351 CSV830
Spondias	dulcis	MALO	(Malo	)	Resi		350 CSV829
							343 CSV822
* ILE PENTECOTE							
Spondias	dulcis	PENTECOTE	(Apma	)	ba:rus	usmene	
Spondias	dulcis	PENTECOTE	(Apma	)	ba:rus	mwetax	
Spondias	dulcis	PENTECOTE	(Apma	)	ba:rus	tewewep	
Spondias	dulcis	PENTECOTE	(Apma	)	ba:rus		
* ILE SANTO							
Spondias	dulcis	SANTO	(Farsaf	)	wi	windu	
Spondias	dulcis	SANTO	(Farsaf	)	wi	kar	
Spondias	dulcis	SANTO	(Farsaf	)	wi	fakir	
* ILE TANNA							
Spondias	dulcis	TANNA	(Lenakel	)	naus		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)		NOM VERNACULAIRE	ARBRE HERBIERS
* ILE TORRES				
Spondias dulcis	TORRES (Lo)		nur	129
Spondias dulcis	TORRES (Hiu)		nug	138 CSV537
Spondias dulcis	TORRES (Lo)		nur	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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SYZYGIUM MALACCENSE

* ILE AMBAI

Syzygium malaccense	AMBAI	(Nduindui)	kavika	menamapute
Syzygium malaccense	AMBAI	(Ndvindui)	kavika	

* ILE AMBRYM

Syzygium malaccense	AMBRYM	(Dakaka)	have	moso	200	CSV590
Syzygium malaccense	AMBRYM	(Dakaka)	have	suu	201	CSV591
Syzygium malaccense	AMBRYM	(Dakaka)	have	kaga		
Syzygium malaccense	AMBRYM	(Dakaka)	have	ten	207	CSV597
Syzygium malaccense	AMBRYM	(S/E Ambrym)	ahi	ah-maso		
Syzygium malaccense	AMBRYM	(S/E Ambrym)	ahi	ah-e-gabili		

* ILE BANKS(GAUA)

Syzygium malaccense	BANKS(GAUA)	(Name)	wivir
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* ILE BANKS(VNL)

Syzygium malaccense	BANKS(VNL)	(Mosina)	gever	wotorou
Syzygium malaccense	BANKS(VNL)	(Mosina)	gever	wolul
sp	BANKS(VNL)	(Mosina)	wopotlaw	186 CSV566

* ILE EFATE

Syzygium malaccense	EFATE	(Nord-Efate)	kavik	kaf-kekok
Syzygium malaccense	EFATE	(Nord-Efate)	navik	

* ILE EMAE

Syzygium malaccense	EMAE	(Tanananga)	na-kavika	
Syzygium malaccense	EMAE	(Tanananga)	na-kavika	gogo
Syzygium malaccense	EMAE	(Tanananga)	na-kavika	tau

* ILE EPI

Syzygium malaccense	EPI	(Lewo)	kavika	veñve
Syzygium malaccense	EPI	(Lewo)	kavika	na-tärkak
Syzygium malaccense	EPI	(Lewo)	kavika	kanop
Syzygium malaccense	EPI	(Lewo)	kavika	vañwe
Syzygium malaccense	EPI	(Lewo)	kavika	piyawí
Syzygium malaccense	EPI	(Lewo)	kavika	Xona

* ILE ERROMANGO

Syzygium maiaccense	ERROMANGO	(Oru)	webe,nomin	463	CSV982
sp	ERROMANGO	(Oru)	webe	bel	

* ILE FUTUNA

Syzygium malaccense	FUTUNA	(Futuna)	kavika	ato	436 CSV966
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FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
Syzygium malaccense		FUTUNA	(Futuna)		kavika		masi
* ILE MAEWO							
Syzygium malaccense		MAEWO	(Baetora)		Havika	Raniete morous	
Syzygium malaccense		MAEWO	(Baetora)		Havika	Raniete	423 CSV909
Syzygium richii		MAEWO	(Baetora)		natora	dau	
Syzygium sp		MAEWO	(Baetora)		natora	ere	
* ILE MALAKULA							
Syzygium malaccense		MALAKULA	(Wala/Rano)		navi		64 CSV454
Syzygium malaccense		MALAKULA	(Wala/Rano)		navi	nivinjus	82 CSV480
Syzygium malaccense		MALAKULA	(Wala/Rano)		navi		
Syzygium malaccense		MALAKULA	(Wala/Rano)		navi		
Syzygium sp		MALAKULA	(Wala/Rano)		navi	nimenmen	
Syzygium sp		MALAKULA	(Wala/Rano)		navi		99 CSV494
* ILE MALAKULA(SWB)							
Syzygium malaccense		MALAKULA(SWB(Ninde	)		neweke	bong	
Syzygium malaccense		MALAKULA(SWB(Ninde	)		neweke	mis	
* ILE MALO							
Syzygium malaccense		MALO	(Malo)		havika	mburus	
Syzygium malaccense		MALO	(Malo)		havika	ietevoso	340 CSV819
Syzygium malaccense		MALO	(Malo)		havika	mbarohani	
Syzygium malaccense		MALO	(Malo)		havika		341 CSV820
* ILE PENTECOTE							
Syzygium cf nutans		PENTECOTE	(Apma)		malmaikavik		23 CSV438
Syzygium malaccense		PENTECOTE	(Apma)		kavik		11 CSV428
							16 CSV432
							21 CSV436
Syzygium malaccense		PENTECOTE	(Apma)		kavik	tuturan	32 CSV444
Syzygium malaccense		PENTECOTE	(Apma)		kavik	maru	14 CSV431
Syzygium malaccense		PENTECOTE	(Apma)		kavik	tang	
* ILE SANTO							
Syzygium malaccense		SANTO	(Farsaf)		ifi	kar	
Syzygium malaccense		SANTO	(Farsaf)		ifi	ngor	
Syzygium malaccense		SANTO	(Farsaf)		ifi	fok	
Syzygium malaccense		SANTO	(Farsaf)		ifi	nenvir	
* ILE TANNA							
Syzygium malaccense		TANNA	(Lenakel)		ne-kavik, nave	toen	
Syzygium malaccense		TANNA	(Lenakel)		ne-kavik, nave	apen	
Syzygium malaccense		TANNA	(Lenakel)		ne-kavik, nave	afil	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
Syzygium malaccense	TANNA	(Lenakel	)	ne-kavik, nave	sasau	283 CSV/03
Syzygium malaccense	TANNA	(Lenakei	)	ne-kavik, nave	kormeta	287 CSV/07
* ILE TORRES						
Syzygium malaccense	TORRES	(Lo	)	nEgEvigA		125 CSV523
Syzygium malaccense	TORRES	(Lo	)	nEgEvigA	nigno	122 CSV520
Syzygium malaccense	TORRES	(Hiu	)	nEgEvigA		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)	NOM VERNACULAIRE	ARBRE HERBIERS
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TERMINALIA CATAPPA

* ILE AMBAI

Terminalia	catappa	AMBAI	(Nduindui)	tokwa		487	CSV1013
Terminalia	catappa	AMBAI	(Nduindui)	tokwa		476	CSV999
Terminalia	catappa	AMBAI	(Nduindui)	tokwa		490	CSV1017
Terminalia	sepicana	AMBAI	(Nduindui)	tokwa	ga	488	CSV1014

* ILE AMBRYM

Terminalia	catappa	AMBRYM	(Dakaka)	wike	winbap	217	CSV607
Terminalia	catappa	AMBRYM	(Dakaka)	wike	siwangere	219	CSV609
Terminalia	catappa	AMBRYM	(Dakaka)	wike	wuro	218	CSV608
Terminalia	catappa	AMBRYM	(Dakaka)	wike	ker	220	CSV610
Terminalia	catappa	AMBRYM	(S/E Ambrym)	hoe	mié		
Terminalia	catappa	AMBRYM	(S/E Ambrym)	hoe	pili	236	CSV627

* ILE BANKS(GAUA)

Terminalia	catappa	BANKS(GAUA)	(Nume)	tilis			
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* ILE BANKS(VNL)

Terminalia	catappa	BANKS(VNL)	(Mosina)	teles		190	CSV576
Terminalia	catappa	BANKS(VNL)	(Mosina)	teles	we		
Terminalia	catappa	BANKS(VNL)	(Mosina)	teles	lowlowo	187	CSV569
Terminalia	sp	BANKS(VNL)	(Mosina)	teles	toko		

* ILE EFATE

Terminalia	catappa	EFATE	(Nord-Efate)	tali	pur maomao		
Terminalia	catappa	EFATE	(Nord-Efate)	tali	pur		
Terminalia	catappa	EFATE	(Nord-Efate)	tali	popot	388	CSV868
Terminalia	samoensis	EFATE	(Nord-Efate)	tali	talili		

* ILE EMAE

Terminalia	catappa	EMAE	(Tanananga)	na-talie	miela	252	CSV 677
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Terminalia	catappa	EMAE	(Tapamanga)	na-talie	masibay		
Terminalia	catappa	EMAE	(Tanananga)	na-talie	tau	269	CSV694
Terminalia	catappa	EMAE	(Tanananga)	na-talie	matakapuda		
Terminalia	catappa	EMAE	(Tanananga)	na-talie	aloara	253	CSV679
Terminalia	samoensis	EMAE	(Tanananga)	na-talie	lasi		

* ILE EPI

Terminalia	catappa	EPI	(Lewo)	tawo	tarakak	250	CSV642
Terminalia	catappa	EPI	(Lewo)	tawo	krekoviu	241	CSV637
Terminalia	catappa	EPI	(Lewo)	tawo	kakoru		

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE		ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBIERS
* ILE EPI(LM)							
Terminalia catappa		EPI(LM)	(Lewo )	)	sawo		295 CSV757
Terminalia catappa		EPI(LM)	(Lewo )	)	sawo		318 CSV760
Terminalia catappa		EPI(LM)	(Lewo )	)	sawo	malum	321 CSV783
* ILE ERROMANGO							
Terminalia catappa		ERROMANGO	(Oru )	)	teli		460 CSV979
* ILE FUTUNA							
Terminalia catappa		FUTUNA	(Futuna )	)	tarie	fatu	
Terminalia catappa		FUTUNA	(Futuna )	)	tarie	maRa	437 CSV968
Terminalia samoensis		FUTUNA	(Futuna )	)	tarie	nui	
* ILE MAEWO							
Terminalia catappa		MAEWO	(Baetora )	)	talise	ororo	
Terminalia catappa		MAEWO	(Baetora )	)	talise	memea	
Terminalia samoensis		MAEWO	(Baetora )	)	talise	hanaova	
Terminalia sepicana		MAEWO	(Baetora )	)	talise	kau	
* ILE MALAKULA							
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo	etssets	92 CSV489
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo		67 CSV466
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo	natsiv	CSV659
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo		98 CSV493
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo		88 CSV486
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo		89 CSV487
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo	wala	328 CSV795
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo	Res	329 CSV796
Terminalia catappa		MALAKULA	(Wala/Rano )	)	dawo		107 CSV499
Terminalia samoensis		MALAKULA	(Wala/Rano )	)	dawo	neRe dmets	91 CSV488
* ILE MALAKULA(SWB							
Terminalia catappa		MALAKULA(SWB(Ninde		)	nei-tiktik		
* ILE MALO							
Terminalia catappa		MALO	(Malo )	)	tavoa	manday	
Terminalia catappa		MALO	(Malo )	)	tavoa	maRvuso	
Terminalia catappa		MALO	(Malo )	)	tavoa	tsilay	
Terminalia samoensis		MALO	(Malo )	)	tavoa	Ranatanumse	357 CSV836
* ILE PENTECOTE							
Terminalia catappa		PENTECOTE	(Apma )	)	towo		34 CSV445
							35 CSV446
							334 CSV811
Terminalia catappa		PENTECOTE	(Apma )	)	towo	metakal	

FRUITS ET NOIX DE VANUATU: INVENTAIRE

NOM SCIENTIFIQUE	ILE(LANGUE)			NOM VERNACULAIRE		ARBRE HERBiers
Terminalia catappa	PENTECOTE (Apma)			towo	temit	13 CSV423 13 AM003
* ILE SANTO						
Terminalia catappa	SANTO (Farsaf)			tavo	kar	
Terminalia catappa	SANTO (Farsaf)			tavo	fok	
Terminalia catappa	SANTO (Farsaf)			tavo	bo	
Terminalia sp	SANTO (Farsaf)			tavo	lang	
* ILE TANNA						
Terminalia catappa	TANNA (Lenakel)			tel	apen	
Terminalia catappa	TANNA (Lenakel)			tel	tofn	
Terminalia catappa	TANNA (Lenakel)			tel	ilokotakota	278 CSV698
Terminalia sp	TANNA (Lenakel)			tel	ket	
* ILE TORRES						
Terminalia catappa	TORRES (Lo)			nE-telihE		120 CSV518
Terminalia catappa	TORRES (Hiu)			nE-tiyitE		136 CSV535
Terminalia catappa	TORRES (Lo)			nE-telihE		133 CSV532
Terminalia catappa	TORRES (Lo)			nE-telihE		134 CSV533
Terminalia catappa	TORRES (Hiu)			nE-tiyitE		137 CSV536
Terminalia samoensis	TORRES (Lo)			nE-telihE	nEmwe	132 CSV531
Terminalia samoensis	TORRES (Hiu)			nE-tiyitE	nEmwe	140 CSV539