RAS/83/001
Field Document 12

STRENGTHENING PLANT PROTECTION AND ROOT CROPS DEVELOPMENT IN THE SOUTH PACIFIC

Describing and Documenting Root Crops in the South Pacific

by

Luigi Guarino and Grahame Jackson

REGIONAL PROJECT OF THE GOVERNMENTS OF THE SOUTH PACIFIC ISLAND COUNTRIES

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS IN ASSOCIATION WITH THE SOUTH PACIFIC COMMISSION

SUVA, FIJI. 1986

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Guarino, L. and Jackson, G.V.H. Describing and documenting root crops in the South Pacific. Suva, Fiji, 1986. FAO. RAS/83/001, Field Document 12. 141 p., 46 tables, 1 appendix.

ABSTRACT

Collections of cassava, taro, sweet potato and yam in nine Project countries have been characterized using modified versions of the descriptors published by the International Board for Plant Genetic Resources. The data have been computerized. In this Field Document the information contained in the database is presented in two ways. For some country collections of cassava, taro and sweet potato selected descriptors are used to show how accessions may be compared both within the same collection and between those in different countries. Country catalogues containing all the descriptors that have been recorded are also given and for each country, root crop activities are noted and the results of evaluation programmes summarized.

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ACKNOWLEDGEMENT

The Food and Agriculture Organization is greatly indebted to all those who assisted in the implementation of the project by providing information, advice and facilities. In particular, the contribution of the following people who collected descriptor data recorded in this Field Document, is gratefully acknowledged: J. Breen (Cook Islands, Fiji, Niue, Tonga and Western Samoa), F. Bule (Vanuatu), A. Larsen (Vanuatu), M. Prana (Solomon Islands), L. Skelton (Cook Islands), A. Tacadao (Western Samoa), H. Takagi (Papua New Guinea), P. Van Wijmeersch (Tonga and Vanuatu), A. Welvaert (Niue) and J. Wilson (Western Samoa).

The visit of L. Guarino to South Pacific countries from September 1985 to February 1986 was supported by the International Board for Plant Genetic Resources.

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INTRODUCTION

Root crops are the traditional staple foods of the people of the South Pacific. Those crops of importance are the aroids (taro, Colocasia esculenta; giant taro, Alocasia macrorrhiza; giant swamp taro, Cyrtosperma chamissonis and tannia, Xanthosoma sagittifolium), sweet potato (Ipomoea batatas), yams (principally, Dioscorea alata, D. esculenta, D. nummularia, D. bulbifera and D. pentaphylla) and cassava (Manihot esculenta). For each of these crops, but more especially for sweet potato, taro and yam, many hundreds of cultivars exist. They are the outcome of selections made by many generations of subsistence farmers to obtain cultivars best adapted to local ecological conditions and social requirements.

As the demands upon agricultural land intensify in response to increasing populations and the expansion of urban and export markets, it is inevitable that changes will occur in the traditional cropping systems. The trend will be towards the replacement of the traditional cultivars by a smaller number selected or bred for high yield in monoculture. The loss of the traditional cultivars in this way could have serious repercussions in the future. It may mean that if outbreaks of pests and diseases occur or if cultivars are needed for such characteristics as good nutritional quality, early maturity, ecological adaptation, food processing potential or as yet unidentified needs, none will be available from which to make selections.

Many countries of the Region are aware of the need to conserve their plant genetic resources. To this end, they have begun to collect and maintain local root crop cultivars and in some instances, their wild relatives. This will ensure that genetic characters which may have been important in the past, and/or may be of value in the future, are available to growers and to plant breeders when the needs arise.

For such collections to be of maximum use, however, the accessions must be well documented. In recognition of this, the International Board for Plant Genetic Resources (IBPGR) has published standard lists of 'descriptors' for many of the important crops including cassava, sweet potato, taro and yam. These descriptors, with some amendments, have been used by the UNDP/FAO-SPC Project for Strengthening Plant Protection and Root Crops Development in nine of the Project countries: Cook Islands, Fiji, Niue, Solomon Islands, Tonga, Tuvalu, Vanuatu and Western Samoa and by the IBPGR Interns in Solomon Islands (Dr. M. Prana) and in Papua New Guinea (Dr. H. Takagi). The data collected have been computerized at Project Headquarters in Suva, Fiji with IBPGR assistance. Copies of the resulting database, compiled on a dBase II programme are held by the Project and the IBPGR. These descriptors, documented in this readily accessible way, will serve three main functions. They will describe plants so that they can be recognized as distinct varieties, which in turn allows duplicates to be identified within and between collections. They may also provide information of agronomic potential so that a rapid preliminary evaluation of accessions may be made. Lastly, the descriptor data will identify geographical areas where morphological diversity is high and where further collections may be needed.

This Field Document (written by Luigi Guarino, IBPGR Consultant and Grahame Jackson, Crop Improvement Officer of the UNDP/FAO-SPC Project) contains a printed version of the databases. It fulfils an objective of the Project to produce 'country catalogues containing descriptions and evaluations of root crop cultivars'. These catalogues are as yet incomplete. Most country/crop combinations need additional data and for some crops no descriptors have been recorded. However, it is hoped that this Field Document which records those descriptors which have been obtained will be a guide, and act as an incentive, for countries to complete the work.

CROP DESCRIPTORS

CASSAVA

Cassava is a perennial shrub in the family Euphorbiaceae. The species originated in tropical South and Central America but is now grown throughout the tropics. It reached the Region probably in the early part of the last century, the last of the major root crops to arrive, but it is now the most important of these where conditions are relatively dry and soils are poor. In a growth period of 8 - 18 months, it can produce up to 40 t/ha of tuberous roots under South Pacific conditions, though the average yield is about half this amount. Some cultivars continue to show yield accumulation up to 3 years after planting. The planting material is stem cuttings. The crop is easy to grow, can be left in the ground for longer than others, produces the highest yields and is relatively free of pests and diseases. It is becoming increasingly popular, despite slightly poorer nutritional quality.

Commonly recognized divisions within the species include those between bitter and sweet cultivars, short-season and long-season cultivars, yellow-fleshed and white-fleshed cultivars, and grey-stemmed cultivars with a smooth root epidermis and those with coloured stems and rough roots. The traditional distinction between bitter and sweet cultivars (which depends on the levels of cyanogenic glycosides in the roots) is now known to be very susceptible to environmental conditions, and to represent merely the ends of a continuum, rather than a real difference between cultivars. However, at least one cultivar in the region, from Tonga, has consistently high levels of cyanogenic glycosides, and the roots are never eaten. Almost all cultivars in the region have white-fleshed roots, but there are several accessions with yellow flesh, possibly representing two distinct cultivars.

The IBPGR descriptors which have been recorded for cassava collections in the Pacific are given at the end of the section, numbered in the order in which it is most convenient to collect the data (Table 1). The corresponding IBPGR descriptor codes (Gullick, Hershey and Equinas Alcazar, 1974) are also given. Most important among the basic descriptors are: colour of unexpanded leaves (1), leaf central lobe shape (4), petiole colour (8), number of branching levels (11), colour of root surface (13) and colour of root pulp (14). High yield in cassava seems to be correlated with: (a) somewhat attenuated leaf lobes with a vertical midday orientation; (b) the lateness or absence of branching; (c) short stature: (d) long-lived leaves; (e) high mean tuber weight, rather than number. Some of the descriptors recorded can therefore be used to make a preliminary evaluation of cultivars. However, the following might profitably be added to the list of basic descriptors (the IBPGR descriptor code, if one exists, is given in brackets for descriptors which do not appear in the basic list):

17.	Leaf area retention at harvest	1 - Low 2 - High
18.	Leaf angle at noon	1 - Tending towards vertical 2 - Tending towards horizontal
19.	Height of first branch (4.1.10)	1 - Low 2 - High

The following descriptors could be added to the basic list to facilitate differentiating between cultivars, though they have no obvious agronomic relevance:

20.	Mature leaf colour (4.1.2)	1 - Light green 2 - Dark green
21.	Onset of flowering	0 - Not flowering 1 - Before 8 months

The leaf shape descriptor (4) is important, but somewhat unsatisfactory as it stands, or in its original form. The following categories may make it more useful:

4.	Leaf central lobe shape	1 - Linear (sides not widening out) 2 - Not linear, narrow a - widest at only one point b - wavy margin 3 - Not linear, wide a - widest at only one point b - wavy margin 4 - Crinkly (that is, not flat)

A list (Table 2) is provided of all accessions in the collections for which descriptor data are available, indexed on the following descriptors, in order:

- Leaf central lobe shape (4)
- Colour of unexpanded leaves (1)
- Petiole colour (8)
- Number of branching levels (11)
- Colour of root pulp (14)
- Colour of root surface (13)
- Most common number of leaf lobes (5)

That is, accessions are listed according to their score for leaf central lobe shape, and within each of the resulting groups they are listed according to the colour of the unexpanded leaves, and so on. This list can be used as a key to identify possible duplicates both within and between collections. The mean, variance and number of observations for various descriptors in seven collections of the Region is also given (Table 3). Mean and variance are not the best estimates of population parameters when the variables involved are not continuous, as is the case with most of the descriptors considered here, but they can be useful as guides to the variability within and between collections.

Table 1

BASIC LIST OF DESCRIPTORS FOR CASSAVA

	Descriptor	Categories	IBPGR code
1.	Colour of unexpanded leaves	1 - Light green 2 - Dark green 3 - Green with red/purple tinge 4 - Purple	4.1.1
2.	Hairiness of unexpanded leaves	0 - None 1 - Little 2 - Moderate 3 - High	4.1.6
3.	Mature leaf vein colour	1 - Yellow/green 2 - Yellow/green to pale red 3 - Red	6.1.6
4.	Leaf central lobe shape	1 - Linear 2 - Oblanceolate 3 - Crinkled	4.1.3
5.	Most common number of leaf lobes		6.1.3
6.	Length of central leaf lobe	(cm)	6.1.4
7.	Width of central leaf lobe	(cm)	6.1.5
8.	Petiole colour	1 - Whole petiole green 2 - Mainly green but some pale red shading 3 - Mainly red to dark red 4 - Whole petiole red or red/purple	4.1.5 and 6.1.7
9.	Growth habit of young stem	1 - Straight 2 - Zigzag	6.1.12
10.	Mature stem colour	1 - Silvery green 2 - Light brown/orange 3 - Dark brown	4.1.7
11.	Number of branching levels	1 - None or 1 2 - 1 or 2 3 - More than 2	4.1.8
12.	Height of mature plant	1 - Short 2 - Medium 3 - Tall	4.1.11

Table 1 (cont'd)

Descriptor	Categories	IBPGR code
13 Colour of root surface	1 - White to cream 2 - Light brown 3 - Dark brown	4.1.12
14. Colour of root pulp	1 - White or cream 2 - Yellow	4.1.13
15. Root inner skin colour	1 - White 2 - Yellow 3 - Pink 4 - Light purple	6.1.28
16. Root peduncle	0 - Absent 1 - Short 2 - Intermediate 3 - Long	6.1.17
17. Root shape	1 - Conical (tapering at one end) 2 - Conical/cylindrical 3 - Cylindrical 4 - Fusiform (tapering at both ends) 5 - Irregular	6.1.18
18. Root constrictions	0 - Absent 1 - Present	6.1.19
19. Root position	1 - Tending towards vertical 2 - Tending towards horizontal 3 - Irregular	6.1.20
20. Root texture	1 - Smooth 2 - Rough	6.1.21

Table 2

CASSAVA VARIETIES IN SEVEN SOUTH PACIFIC COUNTRIES

	Country	Cultivar name	* 4	1	8	11	14	13	5
	Tonga	'Round Leaf'		1	1	1	1	2	7
	Tonga	Fiji		3	3		1	2	7
	Tonga	Fala'oa		4	3		1	1	7
	Tonga	Koka anga		4	4	2	1	3	7
31	Solomon Is.	Hovikoilo	1	1	3	1			7
6	Niue	Ago	1	1	4	1	2	1	5
32	Solomon Is.	Seven Day	1	3	1	1			8
20	Solomon Is.	WSH 1	1	3	1	3	1		7
1	Niue	Rarotonga	1	3	2	1	1	3	7
5	Solomon Is.	WSH 7	1	3	2	3	1		9
33	Solomon Is.	Motalava	1	3	3	2			7
18	Solomon Is.	WSH 5	1	3	3	3	1		7
34	Solomon Is.	Vauvahu	1	3	4	1			7
2	Vanuatu		1	3	4	2	1	3	
19	Solomon Is.	WSH 2	1	3	4	3	1		9
30	Solomon Is.	Vega	2	1	1	1			7
16	Fiji	Yabia vula	2	1	1	1	1	2	7
5	Vanuatu	Manioc curry	2	1	1	2	1	3	
17	Solomon Is.	Reef 2	2	1	1	3	1		7
25	Solomon Is.	WSH 12	2	1	1	3	1		7
Me 01	W. Samoa		2	1	2	3		3	
36	Solomon Is.	Tatamba	2	1	3	1			7
11	Fiji	Vulatolu	2	1	3	1	1	1	7
12	Fiji	Vulatolu (2)	2	1	3	1	1	1	7
15	Vanuatu		2	1	3	1	1	2	
	Tonga	Mataki Eua	2	1	3	1	1	2	9
34	Vanuatu	Linien Manioc	2	1	3	1	1	3	
2	Fiji	Kasaleka	2	1	3	1	1	3	7
4	Cook Is.	Uri Tika	2	1	3	2	1	3	7
15	Solomon Is.	Maliae 2	2	1	3	3	1		7
27	Solomon Is.	WSH 6	2	1	3	3	1		7
22	Solomon Is.	Curry Gizo	2	1	3	3	1		9
2	Cook Is.	Viti Uri Uri	2	1	3	3	1	3	7
10	Vanuatu		2	1	4	1	1	3	
13	Vanuatu		2	1	4	1	1	3	
19	Vanuatu		2	1	4	1	1	3	
	Tonga	Leka Kula	2	1	4	1	1	3	7
35	Solomon Is.	Veha	2	1	4	2			5
1	Vanuatu		2	1	4	2	1	3	
16	Solomon Is.	WSH 4	2	1	4	3	1		7
21	Solomon Is.	Malaita Red	2	1	4	3	1		7
18	Fiji	Sokobale	2	2	3	3	1	1	7
37	Vanuatu	Manioc Rice	2	3	1	1	1	1	
14	Fiji	Falawa	2	3	1	1	1	1	7
40	Vanuatu	Curry	2	3	1	1	1	2	
25	Vanuatu	Three Months	2	3	1	1	2	3	
Me 15	W. Samoa		2	3	1	2			5
Me 14	W. Samoa		2	3	1	2	1	2	5
9	Fiji	H 165	2	3	1	2	1	2	7
Me 03	W. Samoa		2	3	1	3		3	
6	Solomon Is.	WSH 8	2	3	1	3	1		7
11	Solomon Is.	Teomo Keipoki 3	2	3	1	3	1		7

* For definitions of descriptor codes see p. 4.

Table 2 (cont'd)

	Country	Cultivar name	4	1	8	11	14	13	5
28	Fiji	Kadavu	2	3	1	3	1	2	5
20	Fiji	Vulatolu (Yasawa)	2	3	2	1	1	1	7
25	Fiji	Bele Silika	2	3	2	1	1	2	5
17	Fiji	Navolau	2	3	2	1	1	3	7
	Tonga	Leka Hina	2	3	2	2	1	1	7
Me 08	W. Samoa		2	3	2	3		3	
29	Solomon Is.	Curry	2	3	3	1			7
7	Solomon Is.	Maliae 4	2	3	3	1			9
26	Solomon Is.	Neboi Teomo Nendi	2	3	3	1	1		9
7	Fiji	Aikavitu	2	3	3	1	1	1	7
2	Niue	Ka Uli Fua Tea	2	3	3	1	1	1	7
13	Fiji	Tilomuria No. 3	2	3	3	1	1	2	9
6	Vanuatu	Pango Manioc	2	3	3	1	1	3	
18	Vanuatu		2	3	3	1	1	3	
4	Fiji	Coci Selection	2	3	3	1	1	3	7
28	Solomon Is.	Dovele	2	3	3	2			7
6	Cook Is.	'Tauira Teuruaa'	2	3	3	2	1	1	7
	Tonga	Lepa Hina	2	3	3	2	1	1	7
11	Vanuatu		2	3	3	2	1	3	
8	Solomon Is.	Maliae 5	2	3	3	3	1		7
13	Solomon Is.	Anuta 1A	2	3	3	3	1		8
22	Vanuatu	'Sweet'	2	3	3	3	1	1	
3	Cook Is.	Tea Titika	2	3	3	3	1	1	5
24	Fiji	Noumea	2	3	3	3	1	2	5
23	Fiji	Hawaii	2	3	3	3	1	2	7
4	Niue	Ka Uli Fua Uli	2	3	3	3	1	3	7
9	Solomon Is.	Neboi Keipoki	2	3	3	3	2		9
14	Solomon is.	Betikama	2	3	3	3	2		9
22	Fiji	Beqa	2	3	3	3	2	3	7
	Tonga	Tanoa	2	3	4	1			7
9	Vanuatu		2	3	4	1	1	1	
8	Fiji	Vulatolu (Dalip)	2	3	4	1	1	1	9
12	Vanuatu		2	3	4	1	1	2	
6	Fiji	Merelesita (2)	2	3	4	1	1	2	7
15	Fiji	Yabia Damu	2	3	4	1	1	2	7
14	Vanuatu		2	3	4	1	1	3	
5	Fiji	Merelesita (1)	2	3	4	1	1	3	7
19	Fiji	New Guinea	2	3	4	1	1	3	9
Me 13	W. Samoa		2	3	4	2	1	1	5
	Tonga	Lepa Kula	2	3	4	2	1	2	7
20	Vanuatu		2	3	4	2	2	3	
12	Solomon Is.	WSH 10	2	3	4	3			7
10	Solomon Is.	Koromira	2	3	4	3	1		7
17	Vanuatu		2	3	4	3	1	1	
5	Niue	Ka Tea Fua Tea	2	4	1	1	1	2	7
Me 09	W. Samoa		2	4	1	3		1	
Me 11	W. Samoa		2	4	1	3		1	
38	Vanuatu		2	4	1	3	1	1	
Me 12	W. Samoa		2	4	2	2	1	2	5
Me 04	W. Samoa		2	4	2	3		2	
Me 05	W. Samoa		2	4	2	3		2	
Me 06	W. Samoa		2	4	2	3		2	
Me 10	W. Samoa		2	4	2	3		2	
Me 07	W. Samoa		2	4	2	3		3	
10	Fiji	H 97	2	4	2	3	1	2	7
	Tonga	Silika	2	4	3	1	1		7

Table 2 (cont'd)

	Country	Cultivar name	4	1	8	11	14	13	5
32	Vanuatu	Manioc Rice	2	4	3	1	1	3	
	Tonga	Enga Enga	2	4	3	1	2	1	7
4	Vanuatu		2	4	3	3	1	1	
1	Cook Is.	Tea Viti Manga	2	4	3	3	1	1	5
26	Fiji	Manioke	2	4	3	3	1	2	5
3	Solomon Is.	WSH 9	2	4	3	3	2		7
4	Solomon Is.	Reefs 1	2	4	3	3	2		7
3	Niue	Hiata	2	4	4	1	1	3	7
Me 02	W. Samoa		2	4	4	3		2	
1	Solomon Is.	Santa Cruz	2	4	4	3	1		7
2	Solomon Is.	Tikopia 1	2	4	4	3	1		7
24	Solomon Is.	Raru	2	4	4	3	1		8
7	Cook Is.	'Red Petiole'	2	4	4	3	1	2	5
27	Fiji	Katafaga	2	4	4	3	1	2	5
21	Fiji	Lomaivuna	2	4	4	3	1	3	7
7	Niue	Pukofu	2	4	4	3	1	3	7
5	Cook Is.	Tanga Renga	2	4	4	3	2	3	7
23	Solomon Is.	WSH 13	3	1	2	2	1		7
42	Vanuatu	Manioc Rice	3	1	3	1	1	3	
3	Fiji	Coci	3	2	2	1		3	7

Table 3

MEAN ($\bar{X}$), VARIANCE (S^2) AND NUMBER OF OBSERVATIONS (NO.)
FOR VARIOUS DESCRIPTORS OF CASSAVA IN SEVEN SOUTH PACIFIC COUNTRIES

* Descriptor	Cook Is.			Fiji			Niue			Solomon Is.			Tonga			Vanuatu			W. Samoa		
no.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.
1	2.9	1.81	7	2.8	0.79	27	3.1	1.14	7	2.5	1.23	36	2.8	1.42	12	2.5	1.22	24	3.5	0.70	15
2	2.0	1.33	7	1.1	0.90	27	1.4	0.62	7				1.6	1.41	8				0.2	0.25	4
3	1.9	0.48	7	1.5	0.49	27	2.0	1.00	7	2.4	0.58	36	1.7	0.57	12				1.1	0.27	15
4	2.0	0.00	7	2.0	0.04	27	1.7	0.24	7	1.8	0.22		2.0	0.00	8	2.0	0.09	24	2.0	0.00	15
5	6.1	1.14	7	6.8	1.21	27	6.7	0.57	7	7.4	0.82	36	7.2	0.33	12				5.0	0.00	4
6	18.6	3.24	7	16.6	12.62	27							22.3	12.48	11	21.7	11.77	23			
7	5.0	0.39	7	4.6	0.63	27							5.3	0.49	11	5.3	1.37	23			
8	3.3	0.24	7	2.8	1.03	27	3.0	1.33	7	2.8	1.11		3.1	0.81	12	3.0	1.30	24	1.9	0.92	15
9	1.0	0.00	7	1.2	0.18	27	1.0	0.00	7	1.1	0.08	36	1.1	0.09	11	1.0	0.04	24	1.0	0.00	4
10	1.0	0.00	7	1.4	0.47	27	1.3	0.24	7	1.7	0.50	36	1.2	0.33	12	1.7	0.57	23	1.6	0.40	15
11	2.7	0.24	7	1.7	0.90	27	1.6	0.95	7	2.4	0.71	36	1.4	0.27	10	1.5	0.61	24	2.7	0.21	15
12	3.0	0.00	2	2.1	0.64	15				1.8	0.57	17	2.0	0.40	11	2.0	0.52	24			
13	2.0	1.00	7	2.0	0.58	27	2.3	0.90	7				1.8	0.62	10	2.4	0.77	24	2.1	0.53	14
14	1.1	0.14	7	1.0	0.04	26	1.1	0.14	7	1.2	0.14	25	1.1	0.09	11	1.1	0.08	24	1.0	0.00	3
15				1.3	0.73	21	1.4	0.62	7				1.4	0.78	9	1.6	0.86	24	1.7	1.33	3
16				1.4	0.70	27				1.3	0.46	25							0.8	0.36	11
17				1.3	0.45	27							1.7	1.57	7				2.4	1.07	11
18				0.3	0.24	26							0.1	0.12	8				0.0	0.00	11
19				1.6	0.70	27													2.2	0.16	11
20	1.0	0.00	7	1.8	0.13	27	1.1	0.14	7	1.8	0.14	25	1.2	0.19	9	1.5	0.26	24	1.8	0.22	14

* For definitions of descriptor nos. see p. 4.

TARO

Taro is an aroid grown in the wet tropics and sub-tropics for its edible corms, which are swollen underground stems. The species probably originated in India but spread fairly early on to the Pacific, where a large number of varieties are traditionally recognized. It is the common staple throughout the Region, grown mostly under dryland conditions. Wetland cultivation is practiced in some areas of Vanuatu and elsewhere, and yields are higher in such conditions. Propagation is usually by taking a cutting from the top of the corm, or by using suckers. Harvesting occurs 7 - 12 months after planting. In the Region, taro can produce up to 25 t/ha, though it usually yields 2 - 10 t/ha.

A distinction is usually made within the species between var. esculenta (dasheen) and var. antiquorum (eddoe). There are differences in floral structure between the two types, in that the terminal sterile part of the spadix is shorter than the male portion and projects outside the spathe in the dasheen, whereas it is longer and completely enclosed in the eddoe. The eddoe may also be recognized by the large number of side cormels; in contrast to the dasheen these do not develop shoots. It is more hardy and more drought-tolerant than the dasheen, but also more acrid. Accessions should be identified as dasheen or eddoe prior to description and evaluation.

Several important pests and diseases affect taro in the Region, but resistant varieties are known for some of them. There may be varieties resistant to the leaf blight fungus (Phytophthora colocasiae) in Papua New Guinea. One-gene resistance to the disease has been introduced from a wild taro from Thailand into Solomon Islands cultivars. There are cultivars in Solomon Islands resistant to the local alomae virus disease. Varieties resistant to fungi of the genus Pythium causing corm rots are known from the Cook Islands, Fiji, Solomon Islands and Western Samoa. Screening for resistance to Papuana beetle is being carried out in Papua New Guinea and Vanuatu.

A list of basic IBPGR descriptors for taro is given at the end of the section (Table 4). The corresponding IBPGR descriptor code (IBPGR Secretariat, 1980a) are also given. The major modification here is in the way petiole colour is recorded. The most obvious way in which varieties differ is in this character, but the patterns and combinations of colours are often difficult to describe. In the system adopted here, the main colour is given first, then a subsidiary colour, if any, followed by the way in which this is distributed relative to the main colour. This is done for the top, middle and base of the petiole. An important distinction here is between striped cultivars and those in which the secondary colour is less clearly delimited. Striped cultivars tend to be the ones which show leaf variagation.

Corm weight is known to be correlated with leaf size in taro, a small number of long-lived leaves being better than many, short-lived ones. It is also thought that shorter petioles and also a more vertical leaf position are an advantage. Height of plant (23) has only been recorded in Vanuatu (Table 5), but it is an important descriptor. Lamina orientation (3) would perhaps be of more relevance with the following states:

3. Lamina orientation
   1 - Vertically droopy
   2 - Intermediate
   3 - Cup-shaped and horizontal

The production of stolons (1) is known to be disadvantageous to the growth of the main corm. The ideal number of suckers (2) depends on the cultural method. Under wetland conditions, suckers may make a significant contribution to marketable yield because a sufficient proportion reach a large size. Under rainfed conditions, one or two suckers would be better, giving one marketable corm and some planting material. The production of stolons, a branched plant type and large numbers of suckers may be more common in varieties which flower naturally, all these characteristics being related to high levels of endogenous gibberellins (Wilson, 1984).

A possibly better version of the sap colour descriptor (10), which is an important one, would be as follows:

10. Sap colour
    1 - Yellow
    2 - Pink
    3 - Red to dark red

Cultivars with red sap tend to have darker-fleshed corms. The shape of the main corm (19) is also an important character, but easily affected by environmental conditions (for example, drought) and difficult to describe. Also, as has been pointed out (Jackson and Breen, 1985) the branched corm illustrated in the IBPGR descriptor list is that of an eddoe; the dasheen also occasionally has a branched corm, but its structure is different. The present descriptor would benefit from being simplified as follows:

19. Corm shape
    1 - Unbranched long
    2 - Unbranched short and fat
    3 - Branched

A descriptor which could usefully be added to the list is the colour of the buds on the corm:

24. Bud colour
    1 - White
    2 - Yellow/green
    3 - Pink/red
    4 - Purple

A list (Table 6) of all accessions in collections of the Region for which descriptor data are available is provided, indexed on the following descriptors, in order:

- Leaf variagation (7)
- Lamina orientation (3)
- Stolon formation (1)
- Colour of spot at vein junction (9)
- Sap colour (10)
- Colour of base of petiole (main colour) (15)
- Colour of top of petiole (main colour) (13)
- Colour of edge of petiole sheath (18)
- Size of spot at vein junction on upper surface of leaf (8)

- Extent of pigmentation on veins on lower surface of leaf (11)
- Colour of base of petiole (secondary colour) (15)
- Colour of top of petiole (secondary colour) (13)
- Colour of top of petiole (distribution of secondary colour) (15)
- Colour of top of petiole (distribution of secondary colour) (13)
- Colour of petiole basal ring (16)
- Corm flesh colour (20)

This should simplify the identification of duplicates. Important cultivars known to be duplicates in different collections include the following:

Cook Is.	Fiji	Niue	Tonga	W. Samoa
Niue	Tausala ni Samoa	Fate	Niue	Niue
Kere Kere	Samoa	Manua Uli	Manua Iuli	Manua
Veo	Hawaii	Niukini Avaava	-	Tusitusi
-	Dalo ni Toga	-	La'ila'uli	Pa'epa'e

The mean, variance and number of observations for various descriptors in eight collections of the Region is also given (Table 7). It is interesting that the three ratio descriptors (5, 12 and 17) show extremely little variation either within or between collections. They could thus be omitted with little inconvenience.

Table 4

BASIC LIST OF DESCRIPTORS FOR TARO

Descriptor	Categories	IBPGR code
1. Stolon Formation	0 - Absent 1 - Present	2.5
2. Number of suckers	0 - None 1 - 1 to 5 2 - 6 to 10 3 - 11 to 20 4 - More than 20	2.7
3. Lamina orientation	1 - Droopy 2 - Erect 3 - Cup-shaped	2.9.3
4. Dark leaf margin	0 - Absent 1 - Present	2.9.5
5. Ratio of leaf length to breadth		2.9.7
6. Leaf colour	2 - Light green 3 - Green 4 - Dark green	2.9.10
7. Leaf variegation	0 - Absent 1 - Present	2.9.11
8. Size of spot at vein junction on upper surface of leaf	0 - Absent 1 - Small 2 - Medium 3 - Large	2.9.12
9. Colour of spot at vein junction on surface of leaf	0 - Absent 1 - Yellow 2 - Purple 3 - Red	2.9.13
10. Sap colour	1 - Yellow 2 - Red	2.9.14
11. Extent of pigmentation on veins on lower surface of leaf	0 - No veins coloured 1 - In a 'V' space 2 - In an "I' shape 3 - In a 'Y' shape 4 - On all veins	2.9.15
12. Ratio of petiole length to lamina length		2.9.18
13. Colour of top of petiole		2.9.19.1

1st figure : main colour
2nd figure: secondary colour
3rd figure: distribution of secondary colour in relation to primary colour

Table 4 (cont'd)

Descriptor	Categories	IBPGR code
Colours	1 - Yellow or light green 2 - Green 3 - Red 4 - Purple	
Distribution	1 - Shading 2 - Stripes 3 - Fine lines 4 - Needlepoint	
14. Colour of middle of petiole	As in 13	2.9.19.2
15. Colour of base of petiole	As in 13	2.9.19.3
16. Colour of petiole basal ring	1 - White 2 - Green 3 - Pink 4 - Red 5 - Purple	2.9.20
17. Ratio of sheath length to total petiole length		2.9.26
18. Colour of edge of petiole sheath (if different from rest of sheath)	As for colours in 13.	2.9.28
19. Corm shape	1 - Unbranched conical 2 - Unbranched round 3 - Unbranched cylindrical 4 - Unbranched elliptical 5 - Unbranched dumb-bell 6 - Unbranched other 7 - Branched	2.12.2
20. Corm flesh colour	1 - White 2 - Yellow 3 - Pink 4 - Red 5 - Red/purple 6 - Purple	2.12.5
21. Corm flesh fibre colour	1 - Yellow 2 - Yellow/green 3 - Purple	2.12.6
22. Flowering	0 - Absent 1 - Present	2.10.1

Table 5

ADDITIONAL TARO DESCRIPTORS FOR VANUATU

	Descriptor	Categories	IBPGR code
23.	Height of main plant	1 - Short 2 - Medium 3 - Tall	2.9.25
24.	Type of cultivation	D - Dry land W - Wet land DW- Both	1.13
25.	Used for laplap	+ Yes - No	
26.	Used for baking	+ Yes - No	
27.	Used for roasting	+ Yes - No	
28.	Used for boiling	+ Yes - No	

Table 6

TARO VARIETIES IN EIGHT SOUTH PACIFIC COUNTRIES

	Country	Cultivar name	* 7	3	1	9	10	15	13	18	8	11	16	20
22	Fiji	Cago Cago	0		1	2	1	231	231	-	3	1	1	1
147	Vanuatu	Naree	0	1	0	0	1	1--	144	8	0	1	1	1
	Solomon Is.	Karki Barker	0	1	0	0	1	212	1--	-	0	0		
23	Vanuatu	Silviot-Jivlioti	0	1	0	0	1	2--	1--	3	0	0	1	1
48	Vanuatu		0	1	0	0	1	2--	141	3	0	0	1	1
	Niue	Fate Fa Lanu	0	1	0	0	1	2--	2--	3	0	0	4	1
56	Vanuatu	Tura	0	1	0	0	1	2--	2--	3	0	0	4	3
20	Vanuatu	Lavu	0	1	0	0	1	213	2--	3	0	0	1	1
140	Vanuatu	Naree	0	1	0	0	1	422	141	3	0	0	1	2
137	Vanuatu	Naree Ure	0	1	0	0	1	4--	244	-	0	1	1	1
	Niue	Manua Avaava Tea	0	1	0	0	2	212	142	3	0	1	1	1
	Niue	Manua Ivaiva Kula	0	1	0	0	2	231	144	3	0	1	4	
2	Tuvalu	Tulee	0	1	0	0	2	234	1--	4	0	1	4	1
	Solomon Is.	Bau	0	1	0	0	2	2--	2--	3	0	0		
	Solomon Is.	Kolodia	0	1	0	0	2	214	2--	3	0	0		
11	Vanuatu		0	1	0	0	2	241	411	-	0	1	4	6
51	Cook Is.	Veo Puka	0	1	0	1	1	122	1--	-	1	0	1	2
	Niue	Niukini Fa Tea	0	1	0	1	1	124	1--	-	1	0	1	2
	Niue	Paku Fa Tea	0	1	0	1	1	124	124	-	1	0	1	2
CE17	W. Samoa	Maga Siva	0	1	0	1	1	1--	1--	-	1	4	1	2
4	Fiji	Vavai Vula (Branched)	0	1	0	1	1	1--	1--	3	1	0	1	1
15	Cook Is.	Niue Green	0	1	0	1	1	124	1--	3	1	0	1	1
48	Cook Is.	Nao Nao	0	1	0	1	1	124	1--	3	1	0	1	1
50	Cook Is.	Veo Puka	0	1	0	1	1	131	3--	3	3	0	1	3
	Solomon Is.	Lauru 1	0	1	0	1	1	2--	1--	-	1	0		
35	Cook Is.	Kura	0	1	0	1	1	2--	1--	-	3	0	1	1
	Niue	Maga Faikai Tea	0	1	0	1	1	2--	1--	3	1	0	4	1
CE61/U	W. Samoa		0	1	0	1	1	212	212	-	1	1	1	
	Solomon Is.	Kakekau	0	1	0	1	1	2--	232	-	1	3		
110	Vanuatu	Nokwanani	0	1	0	1	1	2--	2--	-	3	0	1	3
138	Vanuatu	Tongasow	0	1	0	1	1	2--	2--	-	3	0	1	3
	Niue	Maga Tea Kula	0	1	0	1	1	2--	2--	3	1	0	1	1
	Niue	Talo Fiti	0	1	0	1	1	2--	2--	3	1	0	1	1
	Solomon Is.	Hapa	0	1	0	1	1	2--	2--	3	2	0		
38	Cook Is.	Rakahanga Green	0	1	0	1	2	121	1--	3	1	0	4	2
	Solomon Is.	Luma'abu	0	1	0	1	2	124	1--	3	1	0		
88	Vanuatu	Bulatalai 2	0	1	0	1	2	132	133	3	1	0	5	6
CE13	W. Samoa	Tusitusi Lanumea-mata	0	1	0	1	2	122	122	3	1	1	1	1
30	Fiji	Dalo ni Dausiga	0	1	0	1	2	132	132	3	1	1	1	1
32	Fiji	Sikavi Ni Rotuma	0	1	0	1	2	12-	1--	3	1	4	4	1
	Solomon Is.	Kuriki	0	1	0	1	2	121	1--	3	2	0		
	Solomon Is.	Bikuki	0	1	0	1	2	121	1--	3	2	0		
6	Fiji	Vavai Dina (Unbranched)	0	1	0	1	2	2--	1--	3	1	4	5	4
5	Fiji	Vavai Dina (Branched)	0	1	0	1	2	2--	124	3	1	4	4	5
48	Fiji	Uro ni Vonu	0	1	0	1	2	232	2--	3	1	4	1	6
	Niue	Maga Niukini	0	1	0	2		2--	411	4	1	1	1	2
	Niue	Pogi Kula Ivaiva Tea	0	1	0	2		342	4--	-	1	1	4	
	Niue	Pogi Fa Kula	0	1	0	2		321	4--	4	3	3	4	3

* For definitions of descriptor codes see p. 13.

Table 6 (cont'd)

Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
Niue	Ifo Kialu	0	1	0	2		4--	3--	-	3	3	1	1
Niue	Maga Tea	0	1	0	2	1	123	1--	3	1	0	1	1
Niue	Ifo Lanu	0	1	0	2	1	132	131	3	1	0	1	2
Niue	Maha Fa Tea	0	1	0	2	1	124	131	3	1	1		1
CE11 W. Samoa	Tusitusi Lanumoana	0	1	0	2	1	122	144	3	2	1	1	1
9 Tuvalu	Talo Kena	0	1	0	2	1	124	1--	4	1	0	1	1
12 Tonga	Mangamea	0	1	0	2	1	131	3--	-	2	4	1	1
17 Fiji	Cavu-i-sa (branched)	0	1	0	2	1	124	3--	-	3	1	1	1
18 Fiji	Cavu-i-sa (Unbranched)	0	1	0	2	1	124	3--	-	3	1	1	1
31 Cook Is.	Tiitii White	0	1	0	2	1	124	311	-	3	1	1	1
72 Fiji	Mumu	0	1	0	2	1	124	3--	3	2	3	1	2
CE02/U W. Samoa	Pa'epa'e	0	1	0	2	1	124	3--	3	3	1	1	1
25 Fiji	Kurokece B	0	1	0	2	1	124	3--	4	3	1	1	1
41 Vanuatu	Matamata	0	1	0	2	1	1--	4--	-	2	1	1	1
Niue	Manua Tea	0	1	0	2	1	1--	4--	-	3	1	1	1
Niue	Maga Faikai Kula	0	1	0	2	1	131	4--	-	3	3	4	1
CE47/U W. Samoa		0	1	0	2	1	131	4--	3	2	3		2
Niue	Malau	0	1	0	2	1	144	4--	3	2	4	1	1
27 Vanuatu	Rokrok	0	1	0	2	1	1--	4--	3	3	3	1	1
Niue	Maga Lauila Tuai	0	1	0	2	1	1--	4--	3	3	3	4	1
Solomon Is.	Papasua	0	1	0	2	1	141	4--	3	3	3		
146 Vanuatu	Poysangi	0	1	0	2	1	122	4--	4	2	1	1	1
6 Tonga	Vahe Tuutahe	0	1	0	2	1	232	132	-	1	0	1	1
Niue	Paku Fa Lanu	0	1	0	2	1	2--	121	3	1	0	1	3
56 Cook Is.	No Name	0	1	0	2	1	2--	131	3	1	0	1	1
CE50/U W. Samoa	Vaevae Ula	0	1	0	2	1	232	143	3	1	0	1	1
CE43/U W. Samoa	Fa'ele'ele/Pula	0	1	0	2	1	231	131	3	1	1	1	1
37 Vanuatu	Navia	0	1	0	2	1	2--	1--	3	3	0	1	1
CE18/U W. Samoa	Fa'ele'ele	0	1	0	2	1	244	142	4	1	3	4	1
127 Vanuatu	Sakanumunto	0	1	0	2	1	2--	243	-	1	0	1	4
CE18 W. Samoa	Maga Uli	0	1	0	2	1	2--	231	-	1	1	4	5
CE01 W. Samoa	Laumeamata	0	1	0	2	1	2--	241	-	1	1	1	2
CE06 W. Samoa	Vaevae Ula	0	1	0	2	1	242	231	-	1	1	1	1
CE24 W. Samoa		0	1	0	2	1	2--	2--	-	1	3	1	1
CE09/U W. Samoa	Pula	0	1	0	2	1	2--	241	-	2	1	2	2
Niue	Maha Fa Lanu	0	1	0	2	1	2--	2--	3	1	0	1	1
CE15/U W. Samoa	Pute Nu Sauga	0	1	0	2	1	2--	231	3	1	0		
7 Vanuatu	Tarpartanpat	0	1	0	2	1	241	2--	3	1	1	1	1
45 Vanuatu	Buleisingo	0	1	0	2	1	241	242	3	1	1	4	1
114 Vanuatu	Jimmy Tawa	0	1	0	2	1	241	244	3	1	1	4	2
60 Vanuatu	Voravora	0	1	0	2	1	242	242	3	2	1	1	1
CE04 W. Samoa	Pa'epa'e	0	1	0	2	1	231	3--	-	2	3	1	1
35 Fiji	Qawe ni Urau	0	1	0	2	1	232	3--	3	1	4	1	1
Niue	Paku Hega	0	1	0	2	1	233	3--	3	2	3	4	2
Solomon Is.	Sabana	0	1	0	2	1	241	4--	-	1	1		
3 Tuvalu	Niue	0	1	0	2	1	241	4--	-	1	1	1	2
52 Vanuatu	Manwarda	0	1	0	2	1	2--	413	-	1	3	1	1
CE17/U W. Samoa	Maga Uli	0	1	0	2	1	2--	4--	-	2	1	1	
36 Fiji	Samoa Vula	0	1	0	2	1	231	4--	-	2	1	1	1
Solomon Is.	Nuke-	0	1	0	2	1	241	4--	-	2	1		
3 Tonga	Manua Iuli	0	1	0	2	1	241	4--	-	2	1	1	1
Solomon Is.	Tahu	0	1	0	2	1	242	4--	-	2	1		
55 Cook Is.	Tinito	0	1	0	2	1	2--	4--	-	2	3	5	1
106 Vanuatu	Tansiwenlowa	0	1	0	2	1	2--	412	-	2	3	1	2
158 Vanuatu	Uhmwalgel	0	1	0	2	1	2--	4--	-	2	4		

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
10	Tuvalu	Manua Kula	0	1	0	2	1	244	4--	-	2	4	1	1
	Solomon Is.	Bura Bura	0	1	0	2	1	2--	4--	-	3	1		
24	Fiji	Kurokece A	0	1	0	2	1	2--	4--	-	3	1	1	1
	Niue	Maga Lauila Tea	0	1	0	2	1	2--	4--	-	3	1	1	1
82	Vanuatu	Bethorobasia	0	1	0	2	1	2--	4--	-	3	1	1	1
	Niue	Manua Fa Uli Ivaiva Tea	0	1	0	2	1	212	421	-	3	1		
71	Fiji	Cavu-i-sa	0	1	0	2	1	2--	4--	-	3	3	1	1
22	Cook Is.	Tiitii	0	1	0	2	1	2--	4--	-	3	3	5	1
27	Fiji	Vura	0	1	0	2	1	2--	4--	3	2	1	1	1
69	Fiji	Vura	0	1	0	2	1	2--	4--	3	2	1	1	1
	Niue	Fate Manua	0	1	0	2	1	2--	4--	3	2	1	1	1
	Niue	Pula Fa Lanu	0	1	0	2	1	2--	4--	3	2	1	1	2
E/U	W. Samoa		0	1	0	2	1	2--	4--	3	2	1	4	1
90	Vanuatu	Sekrimando	0	1	0	2	1	231	4--	3	2	1	1	2
91	Vanuatu	Roveratuk	0	1	0	2	1	231	4--	3	2	1	1	2
CE03/U	W. Samoa	Manu'a	0	1	0	2	1	243	4--	3	2	1	1	1
	Niue	Lau Megemege	0	1	0	2	1	241	411	3	2	1	4	1
1	Vanuatu	Penarura	0	1	0	2	1	2--	413	3	2	3	1	
64	Vanuatu	Arusuli	0	1	0	2	1	241	4--	3	2	3	1	1
70	Vanuatu	Mahagatambeo	0	1	0	2	1	243	4--	3	2	3	1	1
CE03	W. Samoa		0	1	0	2	1	243	4--	3	2	3	1	1
7	Tonga	Sikavi Hina	0	1	0	2	1	2--	4--	3	2	4	1	1
77	Vanuatu	Point Cross	0	1	0	2	1	2--	4--	3	2	4	1	1
4	Tonga	Lau'ila Hina	0	1	0	2	1	2--	4--	3	3	1	1	1
5	Tonga	Lau'ila Uli	0	1	0	2	1	2--	4--	3	3	1	1	1
9	Fiji	Dalo ni Toga(Branched)	0	1	0	2	1	2--	4--	3	3	3	1	1
10	Fiji	Dalo ni Toga (Unbranched)	0	1	0	2	1	2--	4--	3	3	3	1	1
9	Vanuatu		0	1	0	2	1	2--	4--	3	3	3	1	1
11	Cook Is.	Purani	0	1	0	2	1	241	4--	4	2	4	5	1
135	Vanuatu	Weeko	0	1	0	2	1	2--	4--	4	3	3	1	2
74	Vanuatu	Wururaholuna	0	1	0	2	1	241	4--	4	3	4	1	1
	Niue	Ifo Tea Avaava Kula	0	1	0	2	1	312	143	3	1	4	4	1
CE27	W. Samoa	Pula Pa'epa'e	0	1	0	2	1	3--	3--	-	1	1	1	2
CE26	W. Samoa		0	1	0	2	1	322	422	-	1	1	4	1
57	Fiji	Toakula	0	1	0	2	1	312	4--	-	2	3	1	1
7	Tuvalu	Kula Toto	0	1	0	2	1	324	4--	-	2	3	1	1
D/U	W. Samoa		0	1	0	2	1	322	4--	3	2	1	4	
121	Vanuatu	Kaasua	0	1	0	2	1	311	4--	3	2	3	4	4
8	Tuvalu	Kisome	0	1	0	2	1	324	4--	4	-	3	1	1
CE48/U	W. Samoa	Manu'a Tusitusi Mumu	0	1	0	2	1	42-	1--	-	2	4	4	
CE19	W. Samoa	Manu'a	0	1	0	2	1	4--	423	-	1	1	1	1
11	Tuvalu	Manua	0	1	0	2	1	421	4--	-	1	1	1	1
42	Fiji	Samoa	0	1	0	2	1	4--	4--	-	2	1	1	1
	Solomon Is.	Birosi	0	1	0	2	1	421	4--	-	2	1		
46	Cook Is.	Kere Kere	0	1	0	2	1	423	4--	-	2	1	1	1
	Niue	Manua Uli	0	1	0	2	1	4--	4--	-	3	3	1	1
12	Tuvalu	Pula Manua	0	1	0	2	1	421	4--	-	3	4	1	1
4	Tuvalu	Talo Fou	0	1	0	2	1	421	4--	-	3	4	1	2
	Niue	Pogi Uli	0	1	0	2	1	4--	4--	3	1	3	5	1
CE12	W. Samoa	Sasa Uli Mumu	0	1	0	2	1	424	423	3	1	3	4	3
	Niue	Ifo Uli	0	1	0	2	1	4--	4--	3	2	0	1	1
2	Fiji	Vavai Loa (Unbranched)	0	1	0	2	1	4--	4--	3	2	1	5	1
25	Vanuatu	Malumlum	0	1	0	2	1	422	4--	3	2	4	1	2
8	Tonga	Sikavi'uli	0	1	0	2	1	424	4--	3	2	4	1	1

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
CE38/U	W. Samoa	Manu'a Tusitusi Uliuli	0	1	0	2	1	423	4--	3	3	1	1	
38	Vanuatu	Malvekal	0	1	0	2	1	4--	4--	3	3	4	1	1
156	Vanuatu	Bwet Wai	0	1	0	2	1	423	4--	4	2	1		
24	Vanuatu	Malumlum	0	1	0	2	1	423	4--	4	2	3	1	1
26	Vanuatu	Malumlum	0	1	0	2	1	423	4--	4	2	3	1	1
46	Vanuatu	Buletolo	0	1	0	2	1	423	4--	4	2	3	1	1
	Solomon Is.	No Name	0	1	0	2	1	421	4--	4	3	3		
	Niue	Talo Fua (Pulekau)	0	1	0	2	2	123	1--	3	1	0	4	1
16	Cook Is.	Ua Anga	0	1	0	2	2	124	1--	3	1	0	4	1
18	Vanuatu		0	1	0	2	2	141	1--	3	1	0	5	3
28	Vanuatu	Rokrok 2	0	1	0	2	2	132	142	3	1	3	4	1
3	Vanuatu	Pakaleo	0	1	0	2	2	1--	1--	3	1	4	1	
54	Vanuatu	Matawolul	0	1	0	2	2	1--	142	3	2	3	4	6
8	Fiji	Dalo ni Qaso (Branched)	0	1	0	2	2	124	141	4	1	4	5	6
1	Cook Is.	Matarei	0	1	0	2	2	124	231	3	1	3	4	2
	Niue	Poetu Kula	0	1	0	2	2	1--	3--	3	1	1	1	1
	Niue	Maga Nonu	0	1	0	2	2	131	3--	4	1	3	4	1
45	Cook Is.	Kakahura	0	1	0	2	2	144	4--	-	1	1	4	1
	Solomon Is.	Akalomamale	0	1	0	2	2	141	411	-	2	4		
76	Vanuatu	Buntaforetwe	0	1	0	2	2	1--	411	3	1	3	4	3
8	Vanuatu	Nandruendakal	0	1	0	2	2	1--	4--	3	2	1	4	3
69	Vanuatu	Talaifui	0	1	0	2	2	1--	4--	3	2	3	4	3
68	Vanuatu	Magundu	0	1	0	2	2	141	411	3	2	3	5	6
5	Vanuatu	Fatmala	0	1	0	2	2	1--	4--	3	2	4	4	1
CE14	W. Samoa	Pula Lefu	0	1	0	2	2	2--	141	-	1	1	1	2
104	Vanuatu	Nangen	0	1	0	2	2	2--	141	3	1	0	4	3
	Solomon Is.	Kumuabu	0	1	0	2	2	2--	1--	3	1	1		
22	Vanuatu	Veranawudi	0	1	0	2	2	2--	141	3	1	1	5	3
33	Cook Is.	Niue	0	1	0	2	2	231	1--	3	1	1	4	1
54	Cook Is.	No Name	0	1	0	2	2	232	1--	3	1	1	5	5
9	Tonga	Manga Siva	0	1	0	2	2	231	1--	3	1	4	4	1
	Solomon Is.	Weather Coast 2	0	1	0	2	2	2--	1--	4	1	4		
2	Tonga	Manua Hina	0	1	0	2	2	2--	2--	-	1		4	3
14	Tonga	Talo Enga	0	1	0	2	2	231	2--	-	1	4	5	3
55	Fiji	Boke ni Vonu	0	1	0	2	2	242	2--	-	1	4	5	6
13	Tonga	Talo Velleti	0	1	0	2	2	231	2--	3	1	0	4	1
66	Vanuatu	Buleiqero	0	1	0	2	2	2--	241	3	1	1	5	3
57	Cook Is.	Mapuna	0	1	0	2	2	231	231	3	1	1	4	3
CE16	W. Samoa	Niue	0	1	0	2	2	243	243	3	1	1	4	5
CE01/U	W. Samoa	Niue	0	1	0	2	2	2--	241	3	2	1	4	1
CE09	W. Samoa	Putemu	0	1	0	2	2	2--	3--	3	1	4	4	1
1	Tonga	Niue	0	1	0	2	2	2--	3--	3	2	1	4	1
	Niue	Fate Fa Tea	0	1	0	2	2	2--	3--	3	2	4	4	1
21	Fiji	Qere Red	0	1	0	2	2	231	4--	-	2	1	4	1
60	Fiji	Kavika 1	0	1	0	2	2	232	4--	-	2	1	4	1
46	Fiji	Sisiwa ni Vatu	0	1	0	2	2	231	4--	-	2	4	4	4
C/U	W. Samoa		0	1	0	2	2	244	4--	-	2	4	4	
105	Vanuatu	Nikaoongan	0	1	0	2	2	2--	4--	3	1	1	4	3
83	Vanuatu	Akasten (Agostin)	0	1	0	2	2	2--	4--	3	1	1	5	6
93	Vanuatu	Kwaba	0	1	0	2	2	2--	421	3	1	1	4	2
92	Vanuatu	Revrenukwisi	0	1	0	2	2	212	423	3	1	1	4	3
47	Vanuatu	Ngoro	0	1	0	2	2	241	411	3	1	1	5	6
49	Vanuatu		0	1	0	2	2	2--	4--	3	1	3	4	5
4	Vanuatu	Tuvutuvu	0	1	0	2	2	243	4--	3	1	3	4	2

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
10	Tonga	Manga Koka	0	1	0	2	2	231	4--	3	1	4	5	3
43	Vanuatu	Sacuse	0	1	0	2	2	241	422	3	1	4	5	6
39	Fiji	Tausala ni Samoa	0	1	0	2	2	2--	4--	3	2	1	4	1
95	Vanuatu	Naverenarakwas	0	1	0	2	2	231	4--	3	2	1	4	6
14	Fiji	Kaboa	0	1	0	2	2	232	4--	3	2	1	4	1
51	Vanuatu		0	1	0	2	2	243	4--	3	2	1	4	3
72	Vanuatu	Ganigrasea	0	1	0	2	2	243	4--	3	1	1	5	6
50	Vanuatu		0	1	0	2	2	243	411	3	2	1	4	3
CE49/U	W. Samoa	Vale	0	1	0	2	2	233	4--	3	2	3	4	1
61	Vanuatu	Tarivanga	0	1	0	2	2	243	4--	3	2	3	4	3
97	Vanuatu	Nokwis	0	1	0	2	2	243	423	3	2	3	4	3
37	Fiji	Toka Lekutu	0	1	0	2	2	2--	4--	3	2	4	4	1
38	Fiji	Toka Lekutu 2	0	1	0	2	2	2--	4--	3	2	4	4	1
159	Vanuatu	Uhmwalgel	0	1	0	2	2	241	4--	3	2	4		
6	Vanuatu	Petarovo	0	1	0	2	2	242	4--	3	2	4	5	3
	Niue	Fate Uli (Niue)	0	1	0	2	2	243	4--	3	2	4	4	1
	Solomon Is.	Mudimudi	0	1	0	2	2	244	424	3	2	4		
87	Vanuatu	Bulatalai	0	1	0	2	2	212	4--	3	3	3	4	3
86	Vanuatu	Metagabile	0	1	0	2	2	212	4--	3	3	4	4	2
44	Vanuatu	Warongaibarato	0	1	0	2	2	241	4--	3	3	4	5	5
34	Vanuatu	Wariol	0	1	0	2	2	241	412	3	3	4	5	5
	Niue	Fate Fa Ivaiva Tea	0	1	0	2	2	242	411	3	3	4	4	1
96	Vanuatu	Nokaning	0	1	0	2	2	2--	423	4	1	0	4	3
71	Vanuatu	Buleivireundu	0	1	0	2	2	232	424	4	1	3	5	6
58	Vanuatu	Moliware	0	1	0	2	2	241	4--	4	1	3	5	6
160	Vanuatu	Sisrida Aboga	0	1	0	2	2	241	4--	4	1	4		
65	Vanuatu	Koru	0	1	0	2	2	241	4--	4	1	4	5	6
89	Vanuatu	Naololo	0	1	0	2	2	243	4--	4	2	1	4	2
	Niue	Toga Uli	0	1	0	2	2	241	4--	4	2	3	4	1
59	Vanuatu	Sinon	0	1	0	2	2	243	4--	4	3	4	4	3
81	Vanuatu	Taleidali	0	1	0	2	2	241	4--	5	1	3	5	6
CE07	W. Samoa	Pula Mumu	0	1	0	2	2	3--	311	-	1	3	4	1
44	Cook Is.	None	0	1	0	2	2	324	3--	3	1	1	4	1
	Niue	Mataga	0	1	0	2	2	3--	3--	3	1	3	4	6
CE04/U	W. Samoa	Manu'a Pinikai	0	1	0	2	2	3--	4--	-	2	1	1	
45	Fiji	Vesi	0	1	0	2	2	312	4--	-	2	4	4	1
11	Tonga	'Number One'	0	1	0	2	2	3--	4--	3	1	4	4	1
79	Vanuatu	Tureango	0	1	0	2	2	323	4--	3	2	0	4	2
CE41/U	W. Samoa	Putemu Uliuli	0	1	0	2	2	311	4--	3	2	1	1	1
39	Cook Is.	Manaura	0	1	0	2	2	311	4--	3	2	1	4	1
40	Cook Is.	Manaura Enua	0	1	0	2	2	312	4--	3	2	3	4	1
94	Vanuatu	Kafafowi	0	1	0	2	2	311	4--	3	2	4	4	3
99	Vanuatu	Espeaore	0	1	0	2	2	311	411	3	2	4	4	3
55	Vanuatu	Fiarkbera	0	1	0	2	2	322	4--	3	2	4	5	6
	Niue	Ifo Kula Kiamu	0	1	0	2	2	311	4--	4	3	3	4	1
117	Vanuatu	Nikookapin	0	1	0	2	2	312	4--	4	3	4	4	6
	Niue	Matavalu	0	1	0	2	2	4--	131	-	1	3	4	6
	Niue	Maga Uli	0	1	0	2	2	421	1--	3	1	0	5	
7	Fiji	Dalo ni Rotuma	0	1	0	2	2	4--	144	3	1	4	4	4
	Niue	Pogi Uli Fa Ivaiva Tea	0	1	0	2	2	412	3--	-	1	3	4	1
13	Tuvalu	Talo Fiti	0	1	0	2	2	4--	4--	-	1	1	1	1
40	Fiji	Mumu ni Toga	0	1	0	2	2	4--	4--	-	1	4	4	1
63	Fiji	Sisiwa ni Rotuma	0	1	0	2	2	4--	4--	-	2	1	4	1
64	Fiji	Taniela	0	1	0	2	2	432	4--	-	2	1	4	6
61	Fiji	Kavika 2	0	1	0	2	2	4--	4--	-	2	3	1	1
59	Fiji	Matalei	0	1	0	2	2	4--	4--	-	2	4	5	1

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
	Niue	Fate Uli Faliu	0	1	0	2	2	423	4--	-	2	4	4	1
34	Fiji	Sikavi Loa	0	1	0	2	2	424	4--	-	2	4	5	1
1	Fiji	Vavai Loa (Branched)	0	1	0	2	2	4--	4--	3	1	1	5	1
19	Vanuatu	Baramo	0	1	0	2	2	422	4--	3	1	3	4	3
84	Vanuatu	Turangora	0	1	0	2	2	423	424	3	1	3	4	3
57	Vanuatu	Mahanavetu	0	1	0	2	2	422	4--	3	1	4	4	6
3	Fiji	Vavai Loa (Branched)	0	1	0	2	2	4--	4--	3	2	1	4	1
2	Vanuatu	Masangara	0	1	0	2	2	421	4--	3	2	4	1	
52	Cook Is.	Veo Mangaia	0	1	0	2	2	4--	4--	3	3	4	4	1
133	Vanuatu	Taro North	0	1	0	2	2	423	4--	3	3	4	4	6
63	Vanuatu	Buleisemisbovu	0	1	0	2	2	424	4--	4	2	3	5	6
42	Vanuatu	Nanono	0	1	0	2	2	422	421	5	1	1	5	6
100	Vanuatu	Youelik	0	1	0	3	1	1--	411	3	2	2	1	2
78	Vanuatu	Igoga	0	1	0	3	2	122	143	3	2	1	4	3
80	Vanuatu	Fulataba	0	1	0	3	2	122	143	3	2	1	4	3
13	Vanuatu		0	1	1	0	1	1--	1--	-	0	0	1	2
17	Vanuatu		0	1	1	0	1	1--	1--	-	0	0	1	2
	Solomon Is.	Tali	0	1	1	0	1	242	142	-	0	0		
123	Vanuatu	Noweiri	0	1	1	0	1	2--	2--	-	0	0	1	1
136	Vanuatu	Nowerak	0	1	1	0	1	2--	2--	4	0	0	4	2
1	Tuvalu	Talo Temolo	0	1	1	0	2	2--	2--	-	0	0	4	1
124	Vanuatu	Namasey	0	1	1	0	2	423	1--	3	0	0	4	6
CE57/U	W. Samoa		0	1	1	1	1	1--	1--	-	2	0	1	
CE59/U	W. Samoa		0	1	1	1	1	1--	1--	-	2	0	1	
CE44/U	W. Samoa	Pula Pa'epa'e	0	1	1	1	1	124	1--	-	3	0	1	1
42	Cook Is.	Maakapi	0	1	1	1	1	2--	1--	-	1	0	1	2
53	Cook Is.	No Name	0	1	1	1	1	2--	1--	-	1	0	4	1
150	Vanuatu	Napease	0	1	1	1	1	2--	2--	-	1	0	1	4
52	Fiji	Lau	0	1	1	1	1	241	2--	-	1	4	1	1
15	Fiji	Sisiwa	0	1	1	2	1	124	3--	3	2	1	1	1
16	Fiji	Sisiwa	0	1	1	2	1	124	3--	3	2	1	1	1
29	Fiji	Dalo ni Wai	0	1	1	2	1	124	3--	3	2	1	1	1
	Niue	Pula Fa Tea	0	1	1	2	1	1--	4--	-	2	1	1	2
	Niue	Paku Fa Kula	0	1	1	2	1	1--	411	3	1	3	4	4
26	Fiji	Vura White	0	1	1	2	1	2--	2--	3	2	1	1	1
43	Fiji	Botiki	0	1	1	2	1	231	3--	3	2	1	1	
53	Fiji	Tausala ni Mumu	0	1	1	2	1	241	3--	3	2	4	4	1
56	Fiji	Sisiwa White	0	1	1	2	1	2--	4--	-	2	1	1	1
	Niue	Toga Tea	0	1	1	2	1	2--	4--	-	2	4	4	1
149	Vanuatu	Taromarou	0	1	1	2	1	2--	4--	3	2	1	1	1
131	Vanuatu	Intelmare	0	1	1	2	1	4--	244	-	1	0	1	2
155	Vanuatu		0	1	1	2	1	423	243	-	2	1	1	
CE02	W. Samoa	Sasa Uli	0	1	1	2	1	4--	4--	-	1	3	1	1
20	Fiji	Qere (Red stripe)	0	1	1	2	1	4--	4--	-	2	3	1	1
44	Fiji	Qitawa	0	1	1	2	1	4--	4--	-	2	3	1	1
43	Cook Is.	Rukau	0	1	1	2	1	411	4--	-	2	3	4	2
98	Vanuatu	Nipin	0	1	1	2	1	423	4--	3	1	3	1	4
CE25	W. Samoa	Vale	0	1	1	2	2	231	231	-	1	2	4	1
	Niue	Palaveka (Pulekau)	0	1	1	2	2	231	241	3	1	0	4	6
50	Fiji	Botiki	0	1	1	2	2	241	3--	-	2	1	5	1
31	Fiji	Sikavi Damu	0	1	1	2	2	231	3--	3	2	4	4	1
	Solomon Is.	Akalo	0	1	1	2	2	2--	4--	-	2	1		
70	Fiji	Tausala	0	1	1	2	2	2--	4--	3	1	4	4	1
153	Vanuatu		0	1	1	2	2	243	4--	3	2	4	5	6
101	Vanuatu	Nitivila	0	1	1	2	2	241	423	3	2	4	5	6

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
120	Vanuatu	Inbaji	0	1	1	2	2	2--	4--	3	3	4	4	3
122	Vanuatu	Nabom	0	1	1	2	2	2--	4--	3	3	4	4	3
	Niue	Pula Fa Kula	0	1	1	2	2	344	4--	-	2	1	4	2
102	Vanuatu	Nakoriwe	0	1	1	2	2	4--	4--	-	2	3	4	2
39	Vanuatu		0	1	1	3	2	1--	144	3	1	4	4	3
148	Vanuatu	Sakiepie	0	1	1	3	2	241	423	3	1	1	4	6
152	Vanuatu		0	1	1	3	2	423	1--	3	1	4	5	6
144	Vanuatu	Towumay	0	3	0	0	1	2--	2--	4	0	0	1	1
CE60/U	W. Samoa		0	3	0	1	1	122	1--	-	1	0	1	
25	Cook Is.	Veo	0	3	0	1	1	122	1--	-	1	0	1	2
CE07/U	W. Samoa	Tusitusi	0	3	0	1	1	122	1--	-	1	0	1	2
	Niue	Niukini Fa Lanu Ivaiva	0	3	0	1	1	122	122	-	1	0	1	2
CE05	W. Samoa	Tusitusi	0	3	0	1	1	122	122	-	1	0	1	2
62	Fiji	Hawaii	0	3	0	1	1	122	1--	-	1	4	1	2
F/U	W. Samoa	Tusitusi	0	3	0	1	1	122	1--	-	1	4	1	2
33	Fiji	Sikavi Vula	0	3	0	1	1	121	121	3	1	4	1	1
11	Fiji	Qere (Branched)	0	3	0	1	1	2--	1--	3	1	0	1	1
12	Fiji	Qere 4	0	3	0	1	1	2--	122	3	1	0	1	1
13	Fiji	Qere Green	0	3	0	1	1	214	1--	3	1	0	1	1
32	Vanuatu	Vivlok	0	3	0	1	1	2--	2--	3	1	0	5	6
	Niue	Fate Pulaka	0	3	0	2		241	4--	3	1	1	1	1
112	Vanuatu	Nuela	0	3	0	2	1	141	141	3	2	1	4	2
28	Fiji	Dalo ni Jaina	0	3	0	2	1	124	3--	4	2	1	5	1
31	Vanuatu	Kalol	0	3	0	2	1	1--	411	-	2	1	1	1
19	Fiji	Daliga ni Kalavo	0	3	0	2	1	124	4--	-	3	4	1	1
CE42/U	W. Samoa	Sugale	0	3	0	2	1	132	413	3	1	3	1	1
	Solomon Is.	Buni	0	3	0	2	1	232	132	-	3	3		
	Solomon Is.	Gatokae	0	3	0	2	1	2--	232	3	3	0		
47	Fiji	Vutikoto	0	3	0	2	1	2--	4--	-	2	4	1	1
111	Vanuatu	Nimakup	0	3	0	2	1	241	4--	3	2	1	4	1
	Niue	Poetu Uli	0	3	0	2	1	241	4--	3	2	4	1	1
67	Fiji	Sikavi Buco	0	3	0	2	1	421	4--	-	2	4	1	1
16	Vanuatu	Seravul	0	3	0	2	2	1--	4--	3	3	3	4	
21	Vanuatu	Lavu	0	3	0	2	2	243	243	3	1	0	4	3
36	Cook Is.	Old Niue	0	3	0	2	2	233	3--	3	2	2	4	1
51	Fiji	Qitawa Pink	0	3	0	2	2	24	4--	-	2	4	4	1
33	Vanuatu	Matanmats	0	3	0	2	2	241	4--	3	2	3	5	6
49	Fiji	Dalo Dina	0	3	0	2	2	2--	4--	3	2	4	5	1
65	Fiji	Futuna Damu	0	3	0	2	2	4--	4--	-	2	1	4	6
143	Vanuatu	Nangisowouya	0	3	0	2	2	4--	4--	-	2	3	4	6
66	Fiji	Dravu	0	3	0	2	2	4--	4--	-	2	4	4	1
68	Fiji	Gau Loa	0	3	0	2	2	4--	4--	3	2	4	4	1
67	Vanuatu	Gaveimaito	0	3	0	2	2	422	412	3	2	4	5	6
23	Fiji	Tausala Dina	0	3	1	2	2	231	324	3	1	1	4	3
	Solomon Is.	Yandina (Coloured)	1	1	0	0	1	212	1--	-	0	0		
	Solomon Is.	Yandina	1	1	0	0	1	212	1--	-	0	0		
	Solomon Is	Ote	1	1	0	0	1	212	1--	-	0	0		
6	Tuvalu	Ula Sele Kena	1	1	0	0	1	412	123	-	0	0	1	2
35	Vanuatu	Tawantaol	1	1	0	0	1	423	2--	4	0	0	1	1
119	Vanuatu	Intelpeyar	1	1	0	0	2	122	122	-	0	0	1	1
103	Vanuatu	Lowanasis	1	1	0	0	2	122	122	3	0	0	4	3
30	Vanuatu	Tasepal	1	1	0	0	2	212	212	3	0	0	4	3
115	Vanuatu	Nitiharil	1	1	0	0	1	241	213	4	0	0	4	6
128	Vanuatu	Inteltanna	1	1	0	1	1	122	123	-	3	0	1	2
36	Vanuatu	Matir	1	1	0	1	1	2--	2--	3	1	0	1	1
47	Cook Is.	Pokere	1	1	0	1	1	212	232	3	1	0	1	1

Table 6 (cont'd)

	Country	Cultivar name	7	3	1	9	10	15	13	18	8	11	16	20
CE54/U	W. Samoa		1	1	0	1	1	212	232	3	1	0	1	1
37	Cook Is.	Tata	1	1	0	2	1	122	4--	-	2	1	1	1
CE39/U	W. Samoa	Manu'a Tusitusi Pa'epa'e	1	1	0	2	1	122	412	-	2	3	1	1
	Solomon Is.	Arogela	1	1	0	2	1	122	4--	3	3	3		
53	Vanuatu	Nuyal	1	1	0	2	1	142	4--	4	2	3	1	3
	Solomon Is.	(Coloured)	1	1	0	2	1	122	4--	4	3	3		
129	Vanuatu	Navenanihivig	1	1	0	2	1	241	4--	3	2	1	1	1
157	Vanuatu	Tabisawan	1	1	0	2	1	243	4--	3	2	1		
5	Tuvalu	Ula Sele Kula	1	1	0	2	1	413	4--	-	1	3	1	2
58	Fiji	Kuku Sau	1	1	0	2	1	412	412	-	1	3	0	1
41	Fiji	Samoa Oriori	1	1	0	2	1	222	412	-	2	1	1	1
49	Cook Is.	Maworawora	1	1	0	2	2	141	1--	4	1	1	4	1
40	Vanuatu	Turei	1	1	0	2	2	212	421	3	1	0	5	3
29	Vanuatu	Tawunar	1	1	0	2	2	212	4--	3	1	1	4	3
85	Vanuatu	Weifenua	1	1	0	2	2	212	4--	3	3	3	4	2
41	Cook Is.	Vaipurau	1	1	1	2	1	322	422	-	1	3	5	3
54	Fiji	Dalo Kaboa	1	1	1	2	2	412	4--	4	1	1	1	1
10	Vanuatu		1	3	1	0	1	212	122	4	0	0	1	3
12	Vanuatu		1	3	1	0	1	212	122	4	0	0	1	3

Table 7

MEAN ($\bar{X}$), VARIANCE (S^2) AND NUMBER OF OBSERVATIONS (NO.)
FOR VARIOUS DESCRIPTORS OF TARO IN EIGHT SOUTH PACIFIC COUNTRIES

Descriptor no.	Cook Is.			Fiji			Niue			Solomon Is.			Tonga			Tuvalu			Vanuatu			W. Samoa		
	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.
1	0.1	0.12	31	0.2	0.18	72	0.1	0.09	52	0.1	0.07	29	0.0	0.00	14	0.1	0.14	13	0.1	0.12	138	0.1	0.19	28
2	1.6	0.59	31	1.7	0.33	71	2.0	0.33	52				2.2	0.34	14	1.7	0.40	13	1.4	0.36	138	1.8	1.26	28
4	0.6	0.25	31	0.8	0.17	72	0.5	0.25	52	0.5	0.26	29	0.7	0.20	12	0.6	0.26	13	0.8	0.18	138	0.6	0.25	28
5	1.4	0.01	31	1.4	0.02	70	1.5	0.01	42				1.5	0.02	14							1.4	0.00	17
6	2.8	0.16	31	2.8	0.35	72	3.0	0.02	52	3.0	0.03	29	3.1	0.53	14	3.0	0.17	13	3.0	0.10	138	3.0	0.11	28
7	0.1	0.12	31	0.0	0.04	72	0.0	0.00	52	0.2	0.15	29	0.0	0.00	14	0.1	0.14	13	0.1	0.10	138	0.1	0.07	28
8	1.6	0.58	31	1.8	0.40	72	1.6	0.76	52	1.6	1.26	29	1.6	0.55	14	1.3	1.06	13	1.5	0.86	138	1.7	0.42	28
9	1.7	0.23	31	1.8	0.14	72	1.8	0.30	52	1.3	0.72	29	2.0	0.00	14	1.5	0.77	13	1.7	0.61	138	1.7	0.21	28
10	1.4	0.25	31	1.5	0.25	72	1.4	0.24	47	1.3	0.23	29	1.5	0.27	14	1.4	0.59	13	1.6	0.25	138	1.2	0.15	28
11	1.2	1.78	31	2.4	2.33	72	1.7	2.29	52	1.3	2.21	29	2.5	3.10	13	3.1	2.58	13	1.9	2.40	138	1.4	1.88	28
12	1.8	0.10	31	2.1	0.05	70	1.7	0.06	41				1.9	0.08	14							2.1	0.04	16
16	3.0	2.73	31	2.5	2.90	72	2.7	2.43	50				2.6	3.02		1.5	1.27	13	3.0	2.80	133	1.8	1.82	26
17	0.6	0.00	31	0.6	0.00	71	0.6	0.00	38				0.6	0.00	14							0.6	0.00	17
20	1.5	0.86	31	1.6	2.13	71	1.7	1.72	48				1.4	0.73	14	1.3	0.23	13	3.1	3.41	128	1.2	0.19	17
21	1.3	0.30	31	1.3	0.45	71	1.3	0.45	45				1.1	0.13	14	1.2	0.36	13	2.0	0.50	128	1.0	0.00	16
22				0.1	0.10	56	0.3	0.22	52				0.1	0.07	14				0.3	0.23	138			

* For definitions of descriptor nos. see p. 13.

SWEET POTATO

Sweet potato is a herbaceous vine in the family Convolvulaceae which is grown as a perennial in the tropics and as an annual in the sub-tropics for its tuberous roots. The sweet potato is of South American origin. According to current theory, it was first introduced into Polynesia in pre-historic times and again into Melanesia in the seventeenth century. It is the staple food of the Papua New Guinea Highlanders and an important feature of the diet throughout most of the Region. It has lately taken the place of taro in areas of Solomon Islands badly affected by leaf blight. Propagation is by planting vine cuttings into mounds of soil, but the size of the mounds, the number of plantings per mound and other cultural details vary considerably between areas. Harvesting takes place 3 - 9 months after planting. Yields of over 35 t/ha have been obtained in the Region, but 3 - 9 t/ha is the average.

Commonly recognized distinctions within the species are those between dry and moist types and between early and late-maturing types. Dry types tend to be less sweet, with white to yellow flesh rather than orange. They predominate in the Region. Early varieties, often called 'Three Months' or 'One Moon', are found in Papua New Guinea and Solomon Islands. Variation in tuber size is also important; large-tubered types are preferred in the Pacific.

The most important disease affecting sweet potato in the Region is scab, caused by the fungus Elsinoe batatas. Most cultivars from Fiji and Tonga are scab-susceptible, and some favoured varieties are no longer grown in Tonga because of the disease. Cultivars with resistance are available in Papua New Guinea, Solomon Islands and Vanuatu. There may also be material in Solomon Islands resistant to little leaf disease caused by a mycoplasma-like organism.

The basic descriptor list is given at the end of the section (Table 8). The corresponding IBPGR descriptor codes (IBPGR Secretariat, 1981) are also given. There is a case to be made for dropping the vine tip pubescence descriptor (6), which seems to be very variable even within the same plant. The crucial descriptors in distinguishing between varieties seem to be: vine pigmentation (5), leaf shape (7), immature leaf colour (12), abaxial leaf vein colour (13), tuber skin colour (16), tuber flesh colour (17). Leaf shape and tuber flesh colour are recorded in a slightly different way to that published by IBPGR. The leaf shape states used here are the ones used by Yen (1974) in his study of sweet potato variability in Oceania. They record both the depth of leaf dissection and the number of leaf digitations. The tuber flesh colour descriptor is designed to cope with the fact that two colours are often present in the flesh of tubers, distributed in different, characteristic patterns. Of the alternative versions of the abaxial leaf vein colour descriptor (13), that used in Papua New Guinea seems to be the most satisfactory. This and other differences among countries are recorded in Table 9.

Among the descriptors of agronomic interest are vine growth rate (3) and vine internode length (4), which affect how fast and how thoroughly the ground is covered with foliage after planting. The plant type descriptor (2) in effect records a combination of these two factors, plus the degree of vine branching. It might be of value to have this as a separate descriptor, although few cultivars with compact plant growth exist in the Region. Other possible additions to the basic list of descriptors include the following:

29.	Tuber shape (Yen, 1974)	1 - Elongate 2 - Fusiform 3 - Oval 4 - Vine end narrow, distal broad 5 - Vine end broad, distal narrow 6 - Rectangular in outline
30.	Vine diameter	1 - Thin 2 - Thick
31.	Vine tubers	0 - Absent 1 - Present

A listing of the accessions held in the Cook Islands, Niue, Tonga, Tuvalu, Vanuatu and Western Samoa is presented (Table 10), indexed on the following descriptors, in order:

- Leaf shape (7)
- Immature leaf colour (12)
- Vine pigmentation (5)
- Tuber skin colour (16)
- Tuber flesh colour (17)
- Abaxial leaf vein colour (13)

Lists indexed in the same way for the Solomon Islands and Papua New Guinea accessions have already been supplied to the relevant personnel (see country catalogues for details). The mean, variance and number of observations for various descriptors in six collections of the Region is also given (Table 11).

Table 8

BASIC LIST OF DESCRIPTORS FOR SWEET POTATO

	Descriptor	Categories	IBPGR code
1	Growth habit of vine	1 - Non-twining 2 - Twining	4.1
2.	Plant type	1 - Compact 2 - Spreading	4.2
3.	Vine growth rate	1 - Slow 2 - Intermediate 3 - Fast	4.3
4.	Vine internode length	1 - Short 2 - Intermediate 3 - Long	4.4
5.	Vine pigmentation	1 - Green 2 - Green with purple marks on nodes 3 - Moderately purple 4 - Moderately purple with purple marks on nodes 5 - Purple	4.5
6.	Vine tip pubescence	0 - None 1 - Sparse 2 - Moderate 3 - Heavy	4.6
7.	Leaf shape	Categories according to Yen (1974)	
	Degree of dissection	'I' (none) to 'V' (deep)	
	Number of digitations	1 - 3	
8.	Length of leaf	(cm)	4.8
9.	Breadth of leaf	(cm)	4.8
10.	Basal lobe of leaf	(cm)	
11.	Mature leaf dissection	0 - None (Yen I) 1 - Slight (Yen II) 2 - Moderate (Yen III & IV) 3 - Deep (Yen V)	4.7
12.	Immature leaf colour	1 - Green or yellow/green 2 - As above, but with purple edge 3 - Purplish green 4 - As above, but with purple edge 5 - Purple 6 - Variegated	4.10

Table 8 (cont'd)

	Descriptor	Categories	IBPGR code
13.	Abaxial leaf vein colour	1 - Green 2 - Half or less than half of main vein purple 3 - Purple spotting 4 - Veins pale purple 5 - All veins purple	4.11
14.	Petiole length	1 - Short 2 - Intermediate 3 - Long	4.12
15.	Petiole pigmentation	1 - Green 2 - Moderately purple 3 - Purple	4.13
16.	Tuber skin colour	1 - White or creamy white 2 - Yellow 3 - Orange 4 - Brown 5 - Red 6 - Purple 7 - Pink 8 - White & purple	4.14
17.	Tuber flesh colour 1st figure : main colour 2nd figure : secondary colour 3rd figure : distribution of secondary colour		4.16
	Colours	1 - White 2 - Yellow 3 - Orange 4 - Purple	
	Distribution	1 - Spots 2 - Patches or clouds 3 - Rings	
18.	Flowering habit	0 - None 1 - Sparse 2 - Moderate 3 - Profuse	4.18
19.	Flower colour	1 - White 2 - White limb with purple throat 3 - Pale purple limb with purple throat 4 - Purple 5 - Medium purple limb with purple throat	4.19
20.	Flower length	(cm)	4.20

Table 8 (cont'd)

	Descriptor	Categories	IBPGR code
21.	Flower width	(cm)	4.21
22.	Equality of sepal length	1 - Outer two shorter 2 - Equal	4.22
23.	Colour of sepals	1 - Green 2 - Light purple 3 - Dark purple 4 - Green with purple edge	
24.	Sepal shape	1 - Ovate 2 - Elliptic 3 - Obovate 4 - Oblong 5 - Lanceolate	4.24
25.	Shape of sepal apex	1 - Acute 2 - Obtuse 3 - Acuminate 4 - Caudate	4.25
26.	Sepal pubescence	1 - Not hairy 2 - Hairy	
27.	Stigma and anther height	1 - Stigma higher than anthers 2 - Stigma and highest anther more or less equal 3 - Stigma lower than highest anther	
28.	Colour of style	1 - White 2 - Top purple 3 - Purple	

Table 9

ADDITIONAL SWEET POTATO DESCRIPTORS FOR PAPUA NEW GUINEA, TUVALU AND VANUATU

Country	Descriptor	Categories	IBPGR Code
Papua New Guinea	13. Abaxial leaf vein colour	1 - Green 2 - Green with spot at base of main vein 3 - 1 cm of purple at base of main vein 4 - Half to entire rib purple 5 - Purple spotting 6 - Veins pale purple 7 - All veins purple	4.11
	28. Colour of stigma	1 - White 2 - Pale purple 3 - Purple	
Vanuatu	13. Abaxial leaf vein colour	1 - Green 2 - Green with spot 3 - 1 cm of purple at base 4 - Purple spotting 5 - All veins purple	4.11
Tuvalu	13. Abaxial leaf vein colour	As Papua New Guinea	4.11

Table 10

SWEET POTATO VARIETIES IN SIX SOUTH PACIFIC COUNTRIES

	Country	Cultivar name	* 7	12	5	16	17	13
35	Vanuatu		I1	1	1	3	30	2
	Tonga	Halasika	I1	1	1	6	10	1
28	Vanuatu		I1	1	2	1	24	7
72	Vanuatu		I1	2	2	3	10	7
	Tonga	Taiwan	I1	2	5	1	10	2
12	Niue	A 8/4	I1	2	5	1	20	5
1	Cook Is.	Finlay	I1	2	5	3	30	1
Ib02	W. Samoa		I1	3	1	1	10	1
59	Vanuatu		I1	3	2	1	20	7
27	Vanuatu		I1	3	2	5	30	7
36	Vanuatu		I1	3	2	7	20	7
Ib15	W. Samoa		I1	5	1			1
Ib14	W. Samoa		I1	5	5			5
14	Vanuatu		I2	1	1	1	10	4
26	Vanuatu		I2	1	4	6	14	7
58	Vanuatu		I2	2	2	3	23	7
2	Vanuatu		I2	3	1	6	20	5
66	Vanuatu		I3	1	2	3	30	7
44	Vanuatu		I3	2	5	3	23	7
45	Vanuatu		I11	1	1	1	10	4
8	Cook Is.	American	I11	1	1	6	10	1
6	Cook Is.	Tiare	I11	2	1	6	10	1
9	Vanuatu		I11	2	4	6	20	7
2	Cook Is.	Rokini I	I11	2	5	2	10	5
5	Vanuatu		I11	3	1	2	10	1
8	Vanuatu		I11	3	2	1	20	7
49	Vanuatu		I12	1	1	2	20	2
43	Vanuatu		I12	1	1	3	30	3
3	Cook Is.	Skelton	I12	1	2	6	10	6
10	Cook Is.	Mati	I12	1	3	6	10	5
2	Niue	Kula Fua	I12	1	5	3	23	5
13	Vanuatu		I12	2	1	1	10	4
33	Vanuatu		I12	2	2			7
12	Vanuatu		I12	2	2	6	10	7
	Tonga	Kaloti	I12	2	3	3	30	2
Ib08	W. Samoa		I12	2	3	5	20	1
10	Vanuatu		I12	3	1	2	20	4
60	Vanuatu		I12	5	3	6	20	7
30	Vanuatu		I13	1	1	3	24	2
52	Vanuatu		I13	2	2	2	20	7
	Tonga	Melefakaha'u	I111	1	1	1	10	2
4	Niue	Tea Niue Tuai	I112	1	1	3	20	1
9	Niue	Simala Vai	I112	1	1	3	20	5
7	Niue	Kakano Kilimoli	I112	1	1	3	30	5
56	Vanuatu		I112	1	2	1	10	7
39	Vanuatu		I112	1	3	6	41	3
24	Vanuatu		I112	1	4	1	20	7
4	Vanuatu		I112	1	4	6	14	7
Ib12	W. Samoa		I112	2	1	1	23	1
Ib13	W. Samoa		I112	2	1	1	23	1
Ib06	W. Samoa	TIS 5081	I112	2	1	1	30	1
	Tonga	Hawaii	I112	2	1	1	41	1
Ib07	W. Samoa		I112	2	1	5	23	5

* For definitions of descriptor codes see p. 27.

Table 10 (cont'd)

	Country	Cultivar name	7	12	5	16	17	13
1	Vanuatu		I I I 2	2	1	6	20	1
2	Tuvalu	Vaitupui Red	I I I 2	2	1	6	23	1
9	Cook Is.	Hawaiian	I I I 2	2	2	1	41	5
Ib09	W. Samoa		I I I 2	2	3	4	23	5
67	Vanuatu		I I I 2	2	3	5	20	7
Ib03	W. Samoa		I I I 2	2	3	7	20	5
1	Tuvalu	Funafuti White	I I I 2	3	2	1	10	7
6	Vanuatu		I I I 2	3	3			7
Ib10	W. Samoa		I I I 2	5	1	4	23	1
Ib11	W. Samoa		I I I 2	5	1	6	10	1
6	Niue	Kili Fapogi Kakano	I I I 2	5	3	6	10	5
25	Vanuatu		I I I 3	1	2	2	24	7
32	Vanuatu		I I I 3	1	3	2	23	7
11	Vanuatu		I I I 3	1	4	1	20	7
10	Niue	A 8/1	I I I 3	1	5	6	14	1
7	Cook Is.	Tiera	I V 1	1	1	1	23	5
	Tonga	Siale	I V 1	1	1	6	20	1
	Tonga	Amalika	I V 1	1	1	6	20	1
Ib01	W. Samoa		I V 1	1	5	1	14	5
5	Cook Is.	Tauira	I V 1	2	1	6	10	5
Ib04	W. Samoa		I V 1	5	3	5	20	5
3	Niue	Fua Kili Tea Kakano	I V 2	1	1	1	14	5
1	Niue	Simala Kakano Fapogi	I V 2	1	3	6	20	3
11	Cook Is.	Matairangi	I V 2	1	5	6	20	5
Ib05	W. Samoa		I V 2	2	1	1	41	5
3	Tuvalu	Nui White	I V 2	2	2	1	10	7
48	Vanuatu		I V 2	2	4	1	10	7
5	Niue	Simala Kula	I V 2	2	4	3	20	5
73	Vanuatu		I V 2	4	5	6	14	2
4	Cook Is.	Totokoitu	I V 2	5	2	5	10	5
11	Niue	Hawaii	I V 3	2	1	5	20	1
	Tonga	Tongamai	V 1	2	1	1	20	1
15	Vanuatu		V 2	2	4	2	20	7
8	Niue	Fua Tea Kakano	V 3	2	1	1	10	5

Table 11

MEAN ($\bar{X}$), VARIANCE (S^2) AND NUMBER OF OBSERVATIONS (NO.)
FOR DESCRIPTORS OF SWEET POTATOES IN SIX SOUTH PACIFIC COUNTRIES

Descriptor no.	Cook Is.			Niue			Solomon Is.			Tonga			Vanuatu			W. Samoa		
	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.	$\bar{X}$	S^2	No.
1	1.0	0.00	11	1.1	0.08	12	1.1	0.07	100	1.0	0.00	8				1.0	0.00	15
2	2.0	0.00	11	2.0	0.00	12	2.0	0.01	100	2.0	0.00	8				2.0	0.00	15
3				2.1	0.63	12	3.0	0.04	100	2.1	0.13	8	2.2	0.42	18	2.0	0.00	15
4				1.9	0.63	12	2.0	0.05	100	1.4	0.55	8				2.0	0.43	15
5	2.6	2.87	11	2.6	3.17	12	2.3	1.30	100	1.7	2.21	8	2.4	1.54	38	2.1	2.21	15
6	0.7	1.02	11	1.7	0.97	12	1.8	0.87	100	0.6	1.12	8				0.7	0.64	15
7	2.7	1.22	11	3.2	1.11	12				2.9	2.12	8	2.1	1.04	38	2.7	1.07	15
	1.4	0.27	11	2.2	0.33	12				1.2	0.21	8	1.9	0.45	38	1.7	0.24	15
8	11.9	4.53	11	10.6	3.14	4							13.1	4.02	37			
9	13.3	7.94	11	12.2	10.36	4							15.3	3.73	37			
10	1.2	0.59	11	0.9	1.11	4							2.2	1.03	37			
11	1.4	0.47	11	1.8	0.52	12	1.4	0.91	100	1.5	1.14	8	1.1	0.75	38	1.6	0.54	15
12	1.8	1.36	11	1.7	1.33	12	3.1	2.10	100	1.5	0.29	8	1.9	0.99	38	3.0	2.29	15
13	4.0	3.80	11	3.8	3.24	12	3.7	1.95	100	1.4	0.27	8	5.6	4.52	38	2.9	4.27	15
14				1.5	0.45	12	2.7	0.29	100	2.0	0.29	8				2.3	0.38	15
15	1.4	0.25	11	1.2	0.15	12	1.3	0.24	100	1.1	0.13	8				1.2	0.31	15
17	1.6	1.05	11	1.7	0.39	12	1.8	0.57	100	2.0	1.14	8	1.9	0.54	36	2.0	0.67	13

* For definitions of descriptor nos. see p. 27.

YAMS

The yams (Dioscorea spp.) are climbing vines in the family Dioscoreaceae. Their underground tubers are of great traditional ritual importance in many countries in the Region, particularly in Melanesia. The main species grown are D. alata, D. esculenta and D. nummularia. All are of South-east Asian origin, but show centres of diversity in Melanesia, especially Papua New Guinea. Other species which are occasionally eaten are D. bulbifera and D. pentaphylla. In a growing season of 9 - 12 months, D. alata can yield up to 30 t/ha in the region, though yields of 5 - 10 t/ha are more usual. The tubers have a short dormancy period. Cultural methods vary widely in detail between areas, but are always based around providing deep, well-drained soil for the planting material, usually a small whole tuber or a piece of a larger one, and some form of staking. Yams keep considerably better than the other major root crops.

The most important disease affecting yams in the region is anthracnose (dieback) caused by the fungus Colletotrichum gloeosporioides. Only D. alata is susceptible to the disease, but there is resistant material in Fiji, Papua New Guinea and Solomon Islands. D. alata is also attacked by the rose beetle (Adoretus versutus). The cultural method used in Tonga, where the vines are trained along cut branches placed along the ground, rather than vertical stakes, is aimed at restricting damage from this pest.

The published IBPGR descriptors (IBPGR Secretariat, 1980b) are essentially aimed at differentiating between species of yams and are usually inadequate for telling cultivars of the same species apart. Yam accessions should be identified to the level of species prior to characterization and evaluation. A key to the common species found in the region has been given (Jackson & Breen, 1985); the distinctions made between D. rotundata and D. nummularia are less than satisfactory:

A. Vines twining to the right
  B. Stems winged; aerial tubers sometimes present..... D. alata
  BB. Stems wingless
    C. Yams of African origin; tubers shallow-rooted, with long dormancy..... D. rotundata
    CC. Traditional Pacific yams; tubers deeply-rooted; vines thorny at base..... D. nummularia
AA. Vines twining to the left
  B. Leaves simple and entire; stems cylindrical
    C. Numerous small tubers; no aerial tubers; vines thorny..... D. esculenta
    CC. Single tubers; numerous, often large aerial tubers; no thorns ..... D. bulbifera
  BB. Leaves lobed; stems square, often winged; numerous small tubers..... D. trifida
  BBB. Leaves palmately compound with 3 or 5 leaflets; thorny at base; aerial tubers present..... D. pentaphylla

Suggested descriptor lists specifically for D. alata and for D. esculenta cultivars are given at the end of the section (Table 12 and Table 14). The versions of the D. alata wing colour descriptors (5, 7, 12 and 14) used in Fiji and Vanuatu are the better ones (Table 13). A further improvement might be to combine descriptors 8 and 10 thus:

Young leaf colour

1 - Yellowish
    a - with purple edge
2 - Purplish green
    a - with purple edge
3 - Purple

In both species, tuber characters are particularly important. Shape, for example, is crucial to the traditional classification of varieties, but it is difficult to describe and is affected by environmental conditions. Above ground, cultivars are recognized mainly by the amount and distribution of purple coloration, and to a lesser extent by leaf shape, a character which it has not been possible to consider in detail here. Varieties with low levels of anthocyanin coloration in vines, petioles and leaves tend to have tubers with better flavour and cooking quality. There seems to be within D. alata a major distinction between typical types and heavily-pigmented cultivars with wings which are reduced to spines at the base of the vine. Estimates of variability will have to await the removal of duplicates from the collections. To this end, indexed lists of accessions have been provided to the relevant personnel in Solomon Islands and Vanuatu (see country catalogues for details).

Table 12

BASIC LIST OF DESCRIPTORS FOR YAM (*DIOSCOREA ALATA*)

	Descriptor	Categories	IBPGR code
1.	Mature leaf colour	1 - Green 2 - Dark green 3 - Purplish green	
2.	Mature leaf vein colour	1 - Green 2 - Pale purple 3 - Purple	
3.	Mature leaf margin colour	1 - Green 2 - Purple	
4.	Mature petiole colour	1 - All green a - with purple base b - with purple leaf junction c - with purple at both ends 2 - All purplish green a - with purple base b - with purple leaf junction c - with purple at both ends 3 - All purple	
5.	Mature petiole wing colour	1 - Green 2 - Purple	
6.	Mature vine colour	1 - Green 2 - Purplish green 3 - Purple	
7.	Mature vine wing colour	1 - Green 2 - Purple	
8.	Young leaf colour	1 - Yellowish 2 - Purplish green 3 - Purple	2.5.11
9.	Young leaf vein colour	As 2.	2.5.10
10.	Young leaf margin colour	As 3.	
11.	Young petiole colour	As 4.	
12.	Young petiole wing colour	As 5.	
13.	Young vine colour	As 6.	
14.	Young vine wing colour	As 7.	
15.	Size of vine wings	1 - Narrow 2 - Wide	

Table 12 (cont'd)

	Descriptor	Categories	IBPGR code
16.	Size of vine	1 - Thin 2 - Medium 3 - Thick	
17.	Spininess of stem base	1 - No spines 2 - Few spines 3 - Many spines	
18.	Spininess of rest of vine	1 - No spines 2 - Few spines 3 - Many spines	2.4.6
19.	Tuber flesh colour	1 - White 2 - Yellowish white or off-white 3 - Yellow 4 - Orange 5 - Purple 6 - Purple with white 7 - White with purple	2.10.11
20.	Tuber shape	1 - Round 2 - Oval 3 - Oval/oblong 4 - Thin and long 5 - Fingered	2.10.5
21.	Aerial tubers	1 - None 2 - Few 3 - Many	2.9.1
22.	Sex	1 - Female 2 - Male	2.7.2
23.	Anthracnose resistance	'Y' - Resistant 'N' - Susceptible	2.12.2

Table 13

ADDITIONAL YAM (*DIOSCOREA ALATA*) DESCRIPTORS FOR FIJI, SOLOMON ISLANDSAND VANUATU

Country	Descriptor	Categories	Descriptor code
Fiji and Vanuatu	5. Mature petiole wing colour 7. Mature vine wing colour 12. Young petiole wing colour 14. Young vine wing colour	1 - Green 2 - Green with purple edge 3 - Purple	
Solomon Is.	20. Tuber shape	1 - Fusiform 2 - Elliptic 3 - Obclavate 4 - Clavate 5 - Pyriform 6 - Obpyriform 7 - Ovoid 8 - Obovoid 9 - Napiform 10 - Turbinate 11 - Ampuliform 12 - Lageniform 13 - Globose 14 - Subglobose 15 - Cylindrical 16 - Needle shaped 17 - Fingered 18 - Curled	2.10.5

Table 14

BASIC LIST OF DESCRIPTORS FOR YAM (DIOSCOREA ESCULENTA)

	Descriptor	Categories	IBPGR code
1.	Young leaf colour	1 - Yellow 2 - Green 3 - Dark green 4 - Purplish green	2.5.11
2.	Young leaf margin colour	1 - Green 2 - Purple	
3.	Mature leaf colour	As 1.	
4.	Mature leaf margin colour	As 2.	
5.	Mature leaf vein colour (upper surface)	1 - Green 2 - Light purple 3 - Purple	
6.	Mature leaf vein colour (lower surface)	As 5.	
7.	Mature vine colour	1 - Green 2 - Brownish green 3 - Brown 4 - Dark brown	
8.	Mature petiole colour	As 7.	
9.	Leaf junction colour	1 - Green 2 - Purple	
10.	Young vine colour	As 7.	
11.	Young petiole colour	As 7.	
12.	Onset of leafing	1 - Early 2 - Late	2.5.1
13.	Tuber flesh colour	1 - White 2 - Yellowish 3 - Lightpurple 4 - Purple	2.10.11
14.	Tuber skin colour	1 - Light 2 - Dark	
15.	Roots on tubers	1 - Absent to few 2 - Many	2.10.9
16.	Tuber shape	1 - Long cylinder 2 - Ovate 3 - Round 4 - Fingered	2.10.5

COUNTRY CATALOGUES

COOK ISLANDS

Cassava and Colocasia taro are the main root crops in the Cook Islands. The area planted to taro has been decreasing, however. Germplasm collections are held by the Ministry of Agriculture and Fisheries at Totokoitu Research Station (Curator: M. Purea, Research Director). The areas planted to the various root crops in 1984 and the numbers of accessions currently in the collections are given below:

	Area (ha)	Accessions
Cassava	121	7
Colocasia	49	57
From Cook Islands		31
From Niue		26
Xanthosoma	20	-
Sweet potato	18	11
Yam (D. alata)	-	8

The cassava and yam collections include all the varieties grown on Rarotonga but probably only 50% of the number available in the whole group. Among the taros maintained are 26 accessions recently introduced as a collection from Niue. Descriptions are given in this section only of cultivars which were grown in the Cook Islands prior to this. The Niue cultivars that were brought in are:

Acc. no.	Name
1	Pula Fa Tea
2	Niukini Fa Tea
4	Paku Fa Lanu
5	Mataga
6	Fate Uli Faliu
7	Pula Fa Tea
8	Manua Uli
9	Maga Uli
10	Manua Avaava Tea
11	Poetu Uli
12	Pula Fa Kula
13	Fate Uli Faliu
14	Poetu Kula
15	Fate Fa Lanu
16	Maga Tea Kula
17	Ifo Tea Avaava Kula
18	Maga Nonu
19	Paku Fa Kula
20	Fate Tea
21	Maha Fa Tea
22	Maga Lauila Tuai
23	Talo Fiti
24	Toga Uli
25	Niukini Fa Lanu Ivaiva

Acc. no.	Name
27	Paku Fa Tea
28	Pogi Fa Uli
29	Maha Fa Tea
30	Malau
31	Maga Lauila Tea
32	Fate Ivaiva Tea
33	Ifo Uli
34	Pogi Uli Fa Ivaiva Tea
35	Matavalu
36	Maga Faikai Kula

As can be seen, some of the varieties that were introduced were already in the Cook Islands, though under different names. For example, accession 1 is a cultivar called Matarei in the Cook Islands and Pula Fa Tea on Niue and so on. See the Niue section for descriptions of these cultivars.

Cassava

In an unreplicated trial in 1980 - 81 using five of the local cassava varieties (accessions 1 - 4 and 7), Uri Titika and Tea Titika had the highest tuber yields, Viti Uri Uri Manga Manga and Uri Titika the highest harvest indices and Uri Viti Tika and Tea Titika the highest starch contents. The whole collection was assessed in 1984. Highest yielders at both 9 and 12 months were Viti Uri Manga Manga and Tauira Teuruaa. In terms of yield of starch, Tanga Renga and Tauira Teuruaa are the recommended varieties. These are also the varieties preferred for taste. Descriptors are given in Table 15.

Taro

Of the Cook Islands taro cultivars, Rakahanga Green, Old Niue (= Rakahanga Black) and Veo are common and popular. Veo has resistance to Pythium; it is a relatively late maturing cultivar. Tiitii also has some resistance to rot. Manaura is popular and early but susceptible to Pythium rot. Cultivars 41, 42 and 43 are grown only for their leaves. Tinito is the preferred cultivar for making taro chips. Nao Nao is said to have the best taste. Tinito, Matarei and Pokere gave the highest yields in a 1985 trial on Mangaia. The first had a low percentage of rotten corms. Among the Niue cultivars, accessions 13 and 18 have become very popular. Descriptors are given in Table 16.

Sweet potato

Rokini 1 is the most popular sweet potato cultivar in the Cook Islands for taste and eating quality. Tiera and Mati are also well-liked. Finlay, a recent introduction, is very soft when cooked. and has orange flesh. Descriptors are given in Table 17.

Yam (D. alata)

No trial work has been carried out on the Cook Islands yam collection, which has only recently been started. The preferred eating cultivar is Ui Toka. Descriptors are given in Table 18.

Table 15

DESCRIPTORS FOR CASSAVA VARIETIES OF COOK ISLANDS

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Tea Viti Manga Manga	4	1	2	2	5	16.8	4.8	3	1	1	3		1	1						1
2	Viti Uri Uri Manga Manga	1	3	1	2	7	19.7	6.3	3	1	1	3		3	1						1
3	Tea Titika	3	2	2	2	5	16.1	4.8	3	1	1	3		1	1						1
4	Uri Tika	1	3	1	2	7	19.4	4.8	3	1	1	2	3	3	1						1
5	Tanga Renga	4	0	2	2	7	19.4	5.2	4	1	1	3		3	2						1
6	'Tauira Teuruaa'	3	3	2	2	7	21.1	4.9	3	1	1	2	3	1	1						1
7	'Red Petiole'	4	2	3	2	5	17.5	4.3	4	1	1	3		2	1						1

* For definitions of descriptor codes see p.4.

Table 16

DESCRIPTORS FOR TARO VARIETIES OF COOK ISLANDS

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 Matarei	0	1	1	1	1.53	3	0	1	2	2	3	1.48	231	131	124	4	0.60	3		2	1	
11 Purani	0	1	1	1	1.39	3	0	2	2	1	4	1.48	4--	4--	241	5	0.56	4		1	1	
15 Niue Green	0	1	1	0	1.52	3	0	1	1	1	0	1.62	1--	124	124	1	0.56	3		1	2	
16 Ua Anga	0	2	1	0	1.32	2	0	1	2	2	0	2.00	1--	124	124	4	0.56	3	7	1	2	
22 Tiitii	0	2	1	1	1.39	3	0	3	2	1	3	2.07	4--	243	2--	5	0.49	-	7	1	1	
25 Veo	0	3	3	0	1.43	3	0	1	1	1	0	1.91	1--	122	122	1	0.56	-		2	2	
31 Tiitii White	0	2	1	1	1.43	3	0	3	2	1	1	1.57	311	124	124	1	0.57	-		1	1	
33 Niue	0	1	1	1	1.37	3	0	1	2	2	1	1.63	1--	1--	231	4	0.65	3		1	1	
35 Kura	0	2	1	0	1.48	2	0	3	1	1	0	1.70	1--	2--	2--	1	0.59	-	4	1	1	
36 Old Niue	0	1	3	1	1.42	3	0	2	2	2	2	1.78	3--	233	233	4	0.62	3		1	2	
37 Tata	0	1	1	1	1.32	3	1	2	2	1	1	1.57	4--	122	122	1	0.59	-		1	2	
38 Rakahanga Green	0	2	1	0	1.55	3	0	1	1	2	0	1.71	1--	121	121	4	0.55	3		2	1	
39 Manaura	0	2	1	1	1.45	3	0	2	2	2	1	1.75	4--	141	311	4	0.53	3		1	1	
40 Manaura Enua	0	2	1	1	1.39	3	0	2	2	2	3	2.23	4--	241	312	4	0.54	3		1	1	
41 Vaipurau	1	2	1	0	1.48	3	1	1	2	1	3	1.68	422	422	322	5	0.61	-		3	2	
42 Maakapi	1	2	1	0	1.59	2	0	1	1	1	0	1.48	1--	2--	2--		0.60	-		2	1	
43 Rukau	1	0	1	1	1.40	3	0	2	2	1	3	1.48	4--	411	411	4	0.55	-		2	2	
44	0	1	1	1	1.58	3	0	1	2	2	1	1.71	3--	133	324	4	0.59	3		1	1	
45 Kakahura	0	1	1	0	1.41	3	0	1	2	2	1	1.88	4--	4--	144	4	0.55	-		1	1	
46 Kere Kere	0	1	1	1	1.37	3	0	2	2	1	1	2.12	4--	423	423	1	0.52	-		1		
47 Pokere	0	2	1	1	1.48	3	1	1	1	1	0	2.15	232	212	212	1	0.62	3	1	1	1	
48 Nao Nao	0	3	1	0	1.40	2	0	1	1	1	0	1.55	1--	124	124	1	0.60	3		1	1	
49 Maworawora	0	2	1	1	1.16	3	1	1	2	2	1	3.00	1--	1--	141	4	0.60	4		1	1	1
50 Veo Puka	0	1	1	0	1.53	3	0	3	1	1	0	1.70	3--	131	131	1	0.51	3		3	1	
51 Veo Puka	0	3	1	0	1.45	3	0	1	1	1	0	1.84	1--	122	122	1	0.60	-		2	2	
52 Veo Mangaia	0	1	1	1	1.25	3	0	3	2	2	4	2.00	4--	241	4--	4	0.70	3		1	1	
53	1	1	1	0	1.49	2	0	1	1	1	0	1.58	1--	2--	2--	4	0.61	-		1	1	
54	0	2	1	1	1.54	3	0	1	2	2	1	1.83	1--	2--	232	5	0.53	3		5	1	
55 Tinito	0	2	1	1	1.39	3	0	2	2	1	3	1.48	4--	241	2--	5	0.53	-		1	3	
56	0	0	1	1	1.30	2	0	1	2	1	0	1.64	131	131	2--	1	0.56	3		1	1	
57 Mapuna	0	1	1	0	1.49	3	0	1	2	2	1	1.57	231	233	231	4	0.55	3		3	1	

* For definitions of descriptor codes see p. 13.

Table 17

DESCRIPTORS FOR SWEET POTATO VARIETIES OF COOK ISLANDS

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1 Finlay	1	2			5	0	I1	9.5	8.7	0.2	0	2	1		1	3	30	0										
2 Rokini I	1	2			5	1	I11	12.2	12.6	1.1	2	2	5		2	2	10	0										
3 Skelton	1	2			2	2	I12	13.8	15.1	2.3	1	1	6		1	6	10	0										
4 Totokoitu	1	2			2	1	IV2	11.0	11.7	0.3	2	5	5		2	5	10	0										
5 Tauira	1	2			1	0	IV1	15.8	19.1	1.1	2	2	5		1	6	10	0										
6 Tiare	1	2			1	0	I11	10.8	11.6	2.0	1	2	1		1	6	10	1										
7 Tiera	1	2			1	0	IV1	11.1	12.4	1.7	2	1	5		1	1	23	0										
8 American	1	2			1	0	I11	10.9	12.5	1.7	1	1	1		1	6	10	0										
9 Hawaiian	1	2			2	1	I112	9.1	11.4	0.5	2	2	5		1	1	41	0										
10 Mati	1	2			3	3	I12	11.5	14.7	2.2	1	1	5		2	6	10	0										
11 Matairangi	1	2			5	0	IV2	14.9	16.2	0.7	2	1	5		2	6	20	0										

* For definitions of descriptor codes see p. 27.

Table 18

DESCRIPTORS FOR YAM (DIOSCOREA ALATA) VARIETIES OF COOK ISLANDS

	Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Ui Toka			1	3	2	1a	2			2	2	2	1a	2	1	2			1	1	1	1			
2	Ui Etene			2	1	1	1	1			3	1	-	1	1	1	1			1	1	5	4			
3				1	1	2	1c	2			2	1	2	2c	2	2	2			1	1	1	3			
4				1	1	1	1	1			3	1	-	1	1	2	2			1	1	1	3			
5				1	1	1	1	2			2	1	1	1	1	2	2			1	1	1				
6				1	1	1	1	2			2	1	1	1	1	2	2			1	1	3	3			
7				1	1	1	1c	2			2	1	2	2c	3	2	2			2	1	7	3			
8				1	1	1	1	2			2	1	1	1	1	1	2			1	1	1	3			

* For definitions of descriptor codes see p. 36.

FIJI

Cassava is the main root crop in Fiji. Colocasia is also very important, but the area planted to this crop decreased by almost half between 1968 and 1978. Collections of the main root crops grown in Fiji are held by the Ministry of Primary Industries at Koronivia Research Station (Curator: P. Sivan, Assistant Director of Agriculture). The areas planted to various root crops in 1978 and the number of local accessions currently in the germplasm collections are given below:

	Area (ha)	Accessions
Cassava	6,934	27
Colocasia	2,874	72
Cyrtosperma	153	1
Xanthosoma	-	5
Alocasia (wild)	-	2
Amorphophallus	-	1
Sweet potato	283	30
Yams	683	106
D. alata		89
D. esculenta		16
D. nummularia		1

These collections are believed to represent virtually all the variability in the crops. Descriptions have been completed, and are presented here, for the cassava, D. alata and Colocasia collections. Much agronomic evaluation work has been done in past years on all these crops. The Project is currently involved in a taro breeding programme at Koronivia involving the best varieties. A large number of breeder's lines are being maintained and evaluated. There has been less interest in sweet potato, which is a minor crop giving generally low yields. The majority of local cultivars are susceptible to the scab fungus. Twenty lines obtained from the International Institute of Tropical Agriculture (IITA) have been introduced by the Project as tissue cultures and are being evaluated, plus a single line from the Asian Vegetable Research and Development Center recommended for its edible leaves.

Cassava

Descriptors of cassava are presented in Table 19. The most popular cassava cultivar in Fiji is Vulatolu. Beqa is also popular and is the highest and most consistent yielder. New Guinea, Merelesita 1 and Yabia Damu are all widely grown. The following cultivars are maintained in tissue culture at Project Headquarters and are being tested for virus infection at the Scottish Crop Research Institute, UK: Beqa, Merelesita 1, Navolau, New Guinea, Tavioka Falawa, Vulatolu, Vulatolu (Yasawa), Yabia Damu.

Several trials have been carried out to assess the agronomic potential of the different varieties. According to a 1976 trial, the six best yielding varieties, in the three main climatic regions of the country, were, in descending order:

Dry zone: Beqa, Yabia Damu, Vulatolu, Navolau, Merelesita 1. Merelesita 2.

Intermediate zone: Beqa, Vulatolu, Yabia Damu, Merelesita 1, Merelesita 2, Navolau.

Wet zone: Beqa, Navolau, Merelesita 1, Yabia Damu, Merelesita 2, Vulatolu.

Two trials investigated optimum harvest time. In an experiment started in 1979, the five highest yielders at various times of harvest were as follows, in descending order:

Four months: Beqa, Belesika, Falawa, Sokobale, Noumea.

Six months: Beqa, Vulatolu, Belesika, New Guinea, Merelesita 2.

Eight months: Vulatolu, New Guinea, Vulatolu (Yasawa), Merelesita 1.

The highest yielders, at various times of harvest, in a trial started in 1980, were, in descending order:

Six months: Vulatolu (Yasawa), Tavioka Falawa, Hawaii, Yabia Vula, Yabia Damu.

Twelve months: Vulatolu (Yasawa), New Guinea, Kasaleka, Merelesita 1, Vulatolu

Eighteen months: Vulatolu, Coci Selection, Vulatolu (Yasawa), Navolau, Merelesita 1.

The following varieties yielded more than 20 t/ha at 12 months in this trial: Beqa, Coci, Coci Selection, Hawaii, Kasaleka, Merelesita 1, Merelesita 2, Navolau, New Guinea, Tavioka Falawa, Vulatolu, Vulatolu (Yasawa), Yabia Damu, Yabia Vula. Of these, Vulatolu, Navolau, Merelesita 1 and Beqa continued to give yield improvement after 18 months. Of the lower-yielding cultivars, Vulatolu 2, Lomaivuna, Tilomuria and Sokobale also did too.

Some cultivars have been tested for resistance to root-knot nematode species. Merelesita 2 showed high resistance to Meloidogyne arenaria and moderate resistance to M. javanica. Vulatolu and Yabia Damu showed moderate resistance to both species. Beqa and Sokobale showed some resistance to M. javanica. All five cultivars were susceptible to M. incognita.

Taro

The following elite taro cultivars from the Fiji collection (Table 20) have been evaluated for nutritional quality by Dr. J. H. Bradbury and his team at the Australian National University (ANU) Canberra, Australia, with funding from the Australian Centre for International Agricultural Research (ACIAR), and are kept in tissue culture at Project Headquarters: Dalo ni Toga, Hawaii, Mumu, Samoa, Samoa Hybrid, Tausala ni Mumu, Tausala ni Samoa, Toakula, Vavai Dina, Vavai Loa and Vutikoto. Meristem cultures of these cultivars are being indexed for viruses at GCRI.

The best tasting varieties are Samoa, Vavai Dina and Samoa Oriori. Samoa is the most popular cultivar but yields tend to be low on poorly drained soils and suckering is not vigorous, so that planting material can be scarce. It is reported to be only moderately susceptible to Meloidogyne javanica and M. incognita. Toakula is another popular, high-yielding cultivar, with a high starch content. It is, however, susceptible to shot-hole (Phyllostictasp.) and post-harvest Pythium rots. The so-called Samoa Hybrid, selected from seed collected from an open-pollinated plant of Samoa, has performed consistently better than Samoa and Toakula.

Hawaii has many suckers, the highest dry matter content and some resistance to Pythium. Vavai Loa and Vavai Dina are favoured for their taste but are not high yielders. Tausala ni Mumu is a wetland taro grown for its leaves. Tausala ni Samoa is the main taro of commerce. Vutikoto is an early-maturing variety. Of the other varieties, Volo is a high yielder but has a low dry matter content and poor taste. Dalo ni Wai is a so-called "wild" taro: it has no corm, but the leaves are taken. The leaves of Hawaii and Tausala ni Mumu are also eaten, though to a lesser extent. Kurokece, Siswa and Vavai Dina also have some resistance to Pythium attack. Dalo ni Jaina is an eddoe.

Yam (D. alata)

Of the D. alata cultivars grown in Fiji (Table 21), Taniela Vula Leka (smooth) and Saido are said to have the best taste. Damu ni Leka and Uvi ni Futuna store best. An attempt is being made to culture the following varieties from meristems at Project Headquarters: Kivi, Murapoi, Taniela Vula Leka (rough), Taniela Vula Leka (smooth), Uvi ni Futuna and Vurai Balavu. If this is successful, plantlets will be sent for virus indexing at the Glasshouse Crops Research Institute (GCRI), UK.

Yam cultivars may be divided into late-, medium- and early-maturing groups. Late-maturing varieties tend to yield more. In various trials between 1966 and 1971, the following gave the best yields in two climatic zones; intermediate (90 - 110 inches) and wet (above 110 inches).

	Intermediate	Wet
Late	Murapoi	Beka
	Peya	Kasokaso
	Kasokaso	Murapoi
Medium	Dalua	Rewamoni mi
	Lokaloka	Uvi ni Futuna
	Uvi ni Futuna	
Early	Lautolu	Laivou Damu
	Laivou Damu	
	Kaunisela	

As a result of more recent trials, the following recommendations have been made. Of the early-maturing varieties, Vurai Balavu and Vurai Dra are recommended for all climatic zones but Moala, Veuwa and Damu ni Leka are also considered useful. Uvi ni Futuna is considered the best of the late-maturing varieties in all zones. Murapoi, Beka and Kivi are the second choices but Futuna Damu Leka and Saido are also recommended. Taniela Vula Leka (smooth) is recommended for the dry and intermediate zones due to its susceptibility to anthracnose. Taniela Vula Leka (rough) has good resistance to this disease.

Table 19

DESCRIPTORS FOR CASSAVA VARIETIES OF FIJI

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	Kasaleka	1	0	1	2	7	26.4	6.1	3	1	3	1	1	3	1		3	1	0	1	2
3	Coci	2	3	1	3	7	14.7	4.8	2	1	2	1	1	3			1	1	0	2	2
4	Coci Selection	3	3	1	2	7	17.8	5.4	3	1	1	1		3	1		0	1	0	2	2
5	Merelesita (1)	3	1	2	2	7	19.9	5.4	4	1	1	1	3	3	1	1	3	2	0	1	2
6	Merelesita (2)	3	1	1	2	7	19.5	4.9	4	1	3	1	2	2	1	1	1	2	0	1	2
7	Aikavitu	3	1	1	2	7	17.4	4.5	3	1	1	1	2	1	1	1	3	2	0	1	2
8	Vulatolu (Dalip Singh)	3	2	3	2	9	21.0	5.1	4	1	1	1		1	1	1	1	1	0	1	1
9	H 165	3	1	2	2	7	12.2	3.4	1	1	1	2		2	1	1	1	1	0	1	1
10	H 97	4	1	1	2	7	15.9	4.5	2	1	2	3		2	1		1	1	0	1	2
11	Vulatolu	1	0	2	2	7	18.5	4.2	3	1	1	1	2	1	1	1	1	1		1	2
12	Vulatolu (2)	1	2	1	2	7	21.0	6.1	3	1	1	1	2	1	1	1	2	4	1	1	2
13	Tilomuria No. 3	3	2	1	2	9	21.1	6.0	3	1	1	1	3	2	1	1	2	1	0	1	2
14	Falawa	3	1	1	2	7	18.2	5.0	1	2	1	1		1	1	1	1	1	0	1	2
15	Yabia Damu	3	2	3	2	7	16.2	4.1	4	1	1	1	1	2	1	1	1	1	1	2	2
16	Yabia Vula	1	2	2	2	7	16.3	5.2	1	1	1	1	3	2	1		1	1	1	2	2
17	Navolau	3	0	1	2	7	19.2	4.4	2	1	2	1		3	1	3	1	2	1	2	2
18	Sokobale	2	2	1	2	7	15.0	3.7	3	1	1	3	3	1	1	1	1	1	0	3	1
19	New Guinea	3	0	2	2	9	14.0	4.0	4	1	1	1		3	1	4	2	1	1	1	2
20	Vulatolu (Yasawa)	3	1	2	2	7	17.7	4.5	2	1	1	1		1	1	1	1	1	1	1	1
21	Lomaivuna	4	0	3	2	7	11.9	3.0	4	1	3	3		3	1	1	1	1	1	1	2
22	Beqa	3	0	1	2	7	14.8	3.7	3	1	1	3		3	2	1	1	1	0	1	2
23	Hawaii	3	2	1	2	7	13.1	5.0	3	1	2	3		2	1		1	1	1	3	2
24	Noumea	3	0	1	2	5	14.7	4.1	3	2	1	3	1	2	1	1	2	1	1	3	2
25	Bele Silika	3	1	1	2	5	12.8	4.2	2	2	1	1	2	2	1	1	1	1	0	1	2
26	Manioke	4	0	1	2	5	11.8	3.9	3	2	1	3	3	2	1	3	3	1	0	3	2
27	Katafaga	4	1	2	2	5	13.0	4.3	4	2	1	3	2	2	1	1	1	2	0	3	2
28	Kadavu	3	2	1	2	5	13.0	4.3	1	2	1	3		2	1	1	0	1	0	3	2

* For definitions of descriptor codes see p. 4.

Table 20

DESCRIPTORS FOR TARO VARIETIES OF FIJI

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 Vavai Loa (Branched)	0	2	1	1	1.21	3	0	1	2	2	1	2.48	4--	4--	4--	5	0.52	3	7	1	1	0
2 Vavai Loa (Unbranched)	0	2	1	1	1.21	3	0	2	2	1	1	2.28	4--	4--	4--	5	0.51	3	2	1	1	0
3 Vavai Loa (Branched)	0	2	1	1	1.34	3	0	2	2	2	1	1.94	4--	4--	4--	4	0.61	3	7	1	1	1
4 Vavai Vula (Branched)	0	1	1	0	1.29	2	0	1	1	1	0	2.13	1--	1--	1--	1	0.54	3	7	1	1	1
5 Vavai Dina (Branched)	0	2	1	1	1.30	3	0	1	1	2	4	2.49	124	2--	2--	4	0.54	3	7	5	1	0
6 Vavai Dina (Unbranched)	0	2	1	1	1.33	3	0	1	1	2	4	2.24	1--	2--	2--	5	0.59	3		4	1	0
7 Dalo ni Rotuma	0	2	1	1	1.40	3	0	1	2	2	4	2.11	144	4--	4--	4	0.59	3	2	4	1	1
8 Dalo ni Qaso (Branched)	0	2	1	1	1.41	2	0	1	2	2	4	2.36	141	124	124	5	0.55	4	7	6	3	
9 Dalo ni Toga (Branched)	0	2	1	1	1.40	3	0	3	2	1	3	2.23	4--	2--	2--	1	0.62	3	7	1	1	0
10 Dalo ni Toga (Unbranched)	0	1	1	1	1.30	3	0	3	2	1	3	2.38	4--	2--	2--	1	0.69	3	6	1	1	0
11 Qere (Branched)	0	1	3	0	1.44	2	0	1	1	1	0	2.11	1--	2--	2--	1	0.61	3	7	1	1	
12 Qere 4	0	1	3	0	1.41	2	0	1	1	1	0	1.96	122	2--	2--	1	0.65	3	7	1	1	0
13 Qere Green	0	1	3	0	1.39	2	0	1	1	1	0	2.02	1--	1--	214	1	0.60	3	7	1	1	0
14 Kaboa	0	1	1	1	1.30	3	0	2	2	2	1	2.53	4--	232	232	4	0.62	3	1	1	1	
15 Sisiwa	1	2	1	1		2	0	2	2	1	1		3--	124	124	1		3	1	1	1	0
16 Sisiwa	1	2	1	1	1.33	2	0	2	2	1	1	2.05	3--	124	124	1	0.69	3	1	1	1	0
17 Cavu-i-sa (Branched)	0	2	1	1	1.34	3	0	3	2	1	1	2.47	3--	124	124	1	0.60	-	7	1	1	0
18 Cavu-i-sa (Unbranched)	0	2	1	1	1.34	3	0	3	2	1	1	2.49	3--	124	124	1	0.62	-	1	1	1	0
19 Daliga ni Kalavu	0	1	3	1	1.33	3	0	3	2	1	4	2.05	4--	244	124	1	0.71	-	4	1	1	
20 Qere (Red stripe)	1	2	1	1	1.32	2	0	2	2	1	3	2.06	4--	4--	4--	1	0.67	-	2	1	1	0
21 Qere Red	0	1	1	1	1.28	3	0	2	2	2	1	2.40	4--	231	231	4	0.61	-	4	1	1	
22 Cago Cago	1	2		0	1.38	2	0	3	2	1	1	2.16	231	231	231	1	0.69	-	4	1	1	
23 Tausala Dina	1	2	3	1	1.40	3	0	1	2	2	1	1.94	324	2--	231	4	0.60	3	4	3	1	0
24 Kurokece A	0	2	1	0	1.34	3	0	3	2	1	1	2.46	4--	2--	2--	1	0.62	-	4	1	1	
25 Kurokece B	0	2	1	0	1.29	3	0	3	2	1	1	2.47	3--	124	124	1	0.61	4	4	1	1	0
26 Vura White	1	2	1	1	2.33	2	0	2	2	1	1	2.09	2--	2--	2--	1	0.62	3	4	1	1	0
27 Vura	0	1	1	1	1.37	3	0	2	2	1	1	2.08	4--	2--	2--	1	0.60	3	4	1	2	1
28 Dalo ni Jaina	0	2	3	1	1.41	3	0	2	2	1	1	1.87	3--	2--	124	5	0.59	4	4	1	3	0
29 Dalo ni Wai	1	2	1	1	1.31	2	0	2	2	1	1	2.11	3--	2--	124	1	0.63	3	4	1	1	0
30 Dalo ni Dausiga	0	2	1	1	1.37	3	0	1	1	2	1	1.98	132	132	132	1	0.65	3	4	1	1	0
31 Sikavi Damu	1	2	1	1	1.42	3	0	2	2	2	4	1.81	3--	324	231	4	0.65	3	3	1	1	0

* For definitions of descriptor codes see p. 13.

Table 20 (cont'd)

Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
32 Sikavi ni Rotuma	0	2	1	0	1.41	2	0	1	1	2	4	1.91	1--	1--	12-	4	0.57	3	4	1	1	0
33 Sikavi Vula	0	3	3	0		2	0	1	1	1	4		121	121	121	1	0.64	3	4	1	1	
34 Sikavi Loa	0	1	1	1	1.46	4	0	2	2	2	4	1.89	4--	2--	424	5	0.65	-	1	1	1	0
35 Qawe ni Urau	0	2	1	0	1.31	2	0	1	2	1	4	2.38	3--	2--	232	1	0.62	3	3	1	1	0
36 Samoa Vula	0	1	1	1	1.35	2	0	2	2	1	1	1.65	4--	231	231	1	0.58	-	2	1	1	0
37 Toka Lekutu	0	2	1	1	1.41	2	0	2	2	2	4	2.04	4--	2--	2--	4	0.63	3	2	1	1	
38 Toka Lekutu 2	0	2	1	1	1.41	3	0	2	2	2	4	2.10	4--	2--	2--	4	0.64	3	2	1	1	
39 Tausala ni Samoa	0	2	1	1	1.44	3	0	2	2	2	1	2.11	4--	2--	2--	4	0.65	3	2	1	1	0
40 Mumu ni Toga	0	2	1	1	1.34	3	0	1	2	2	4	2.06	4--	411	4--	4	0.57	-	7	1	1	1
41 Samoa Oriori	0	1	1	1	1.34	2	1	2	2	1	1	1.96	412	122	222	1	0.63	-	2	1	1	
42 Samoa	0	1	1	1	1.33	3	0	2	2	1	1	1.89	4--	241	4--	1	0.62	-	2	1	1	0
43 Botiki	1	2	1	1	1.33	2	0	2	2	1	1	1.96	3--	231	231	1	0.67	3				0
44 Qitawa	1	2	1	1	1.39	3	0	2	2	1	3	2.12	4--	4--	4--	1	0.66	-	2	1	1	0
45 Vesi	0	3	1	1	1.34	3	0	2	2	2	4	2.25	4--	412	312	4	0.61	-	3	1	1	0
46 Sisiwa ni Vatu	0	1	1	1	1.39	3	0	2	2	2	4	2.12	4--	241	231	4	0.66	-	2	4	1	
47 Vutikoto	0	1	3	1	1.40	4	0	2	2	1	4	1.82	4--	2--	2--	1	0.58	-	1	1	2	
48 Uro ni Vonu	0	1	1	0	1.41	3	0	1	1	2	4	2.14	2--	2--	232	1	0.63	3	4	6	3	0
49 Dalo Dina	0	2	3	1	1.31	3	0	2	2	2	4	1.80	4--	2--	2--	5	0.57	3	3	1	3	0
50 Botiki	1	2	1	1	1.32	3	0	2	2	2	1	2.01	3--	241	241	5	0.68	-	4	1	1	0
51 Qitawa Pink	0		3	1	1.37	4	0	2	2	2	4	1.84	4--	4--	24	4	0.60	-	4	1	1	
52 Lau	1	2	1	0	1.50	2	0	1	1	1	4	1.96	2--	2--	241	1	0.68	-	4	1	1	0
53 Tausala ni Mumu	1	2	1	1	1.46	2	0	2	2	1	4	1.90	3--	241	241	4	0.61	3	1	1	2	0
54 Dalo Kaboa	1	0	1	1	1.45	3	1	1	2	2	1	1.82	4--	412	412	1	0.59	4	4	1	1	0
55 Boke ni Vonu	0	2	1	1	1.36	3	0	1	2	2	4	2.41	2--	2--	242	5	0.63	-	7	6	3	
56 Sisiwa White	1	1	1	1	1.45	2	0	2	2	1	1	1.80	4--	2--	2--	1	0.73	-	1	1	2	0
57 Toakula	0	2	1	1	1.43	3	0	2	2	1	3	2.19	4--	3--	312	1	0.66	-	4	1	2	0
58 Kuku Sau	0	1	1	1	1.50	3	1	1	2	1	3	1.79	412	432	412	0	0.67	-	4	1	1	0
59 Matalei	0	1	1	1	1.42	3	0	2	2	2	4	2.00	4--	4--	4--	5	0.68	-	1	1	1	0
60 Kavika 1	0	1	1	0	1.30	3	0	2	2	2	1	2.08	4--	2--	232	4	0.61	-	4	1	1	0
61 Kavika 2	0	2	1	1	1.39	3	0	2	2	2	3	2.02	4--	4--	4--	1	0.60	-	5	1	2	0
62 Hawaii	0	3	3	0	1.36	2	0	1	1	1	4	2.08	1--	122	122	1	0.63	-	5	2	2	1
63 Sisiwa ni Rotuma	0	2	1	1	1.40	3	0	2	2	2	1	1.57	4--	4--	4--	4	0.64	-	4	1	1	0
64 Taniela	0	2	1	1	1.30	3	0	2	2	2	1	1.92	4--	432	432	4	0.64	-	4	6	4	0

Table 20 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
65	Futuna Damu	0	1	3	1	1.48	4	0	2	2	2	1	2.05	4--	4--	4--	4	0.68	-	1	6	1	0
66	Dalo Dravu	0	2	3	1	1.49	4	0	2	2	2	4	1.90	4--	4--	4--	4	0.66	-	2	1	1	0
67	Sikavi Buco	0	1	3	1	1.46	4	0	2	2	1	4	2.19	4--	4--	421	1	0.63	-	4	1	2	0
68	Gau Loa	0	2	3	1	1.45	3	0	2	2	2	4	1.83	4--	4--	4--	4	0.67	3	1	1	1	0
69	Vura	0	2	1	1	1.32	3	0	2	2	1	1	2.03	4--	2--	2--	1	0.63	3	1	1	2	0
70	Tausala	1	2	1	0	1.39	3	0	1	2	2	4	1.85	4--	2--	2--	4	0.62	3	4	1	1	0
71	Cavu-i-sa	0	2	1	1	1.33	3	0	3	2	1	3	2.25	4--	2--	2--	1	0.58	-	2	1	1	
72	Mumu	0	2	1	1	1.52	2	0	2	2	1	3	1.91	3--	131	124	1	0.62	3	4	2	2	0

Table 21

DESCRIPTORS FOR YAM (DIOSCOREA ALATA) VARIETIES OF FIJI

	Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	Taniela Damu 1			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
2	Taniela Damu 2			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
3	Taniela Damu Balavu A			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
4	Taniela Damu Balavu B			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
5	Taniela Damu Balavu KRS			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
6	Taniela Damu Leka			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
7	Taniela Damu Leka Light			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
8	Taniela Damu Leka Dark			1	3	2	1c	2	1	2	3	3	-	2c	3	2	3	1	2	1	1					
9	Taniela Damu Leka KRS			1	1	2	1c	3	1	3	2	1	2	1c	2	1	2	1	2	1	1					
10	Taniela Vula Balavu			1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1					
11	Taniela Vula Leka A			1	1	1	1a	3	1	3	1	1	1	1	1	1	1	2	2	1	1					
12	Taniela Vula Leka B			1	1	1	1	2	1	0	1	1	1	1	1	1	1	0	3	3	1					
13	Taniela Vula Leka C			1	1	1	1c	2	1	2	2	1	1	2a	3	1	2	2	3	1	1					
14	Taniela Vula Leka KRS			1	3	2	1c	3	1	0	3	3	-	2c	3	2	3	0	2	2	1					
15	Taniela ni Dogubu			1	1	1	1c	3	1	3	2	1	2	1c	2	1	2	2	2	2	1					
16	Taniela ni Dogubu			1	1	1	1c	2	1	3	2	1	2	1c	2	1	2	2	3	2	1					
17	Veuwa			1	1	1	1c	3	1	3	2	1	2	1c	2	2	3	2	3	3	1					
18	Taniela Damu			1	1	1	1a	3	1	3	2	1	1	1c	1	2	2	2	2	1	1					
22	Uvi ni Varalagi			1	1	1	1c	2	1	3	2	1	2	1c	3	1	2	1	2	1	1					
23	Niumadu KRS			1	1	1	1a	3	1	3	2	1	2	1a	3	1	2	1	1	1	1					
24	Niumadu 1 KRS			1	1	1	1a	3	1	3	2	1	2	1a	2	1	2	1	1	1	1					
25	Niumadu			1	3	1	1c	3	1	3	3	3	-	2c	3	2	3	1	1	1	1					
26	Voli Balavu A			2	1	2	1	3	1	3	1	1	2	1a	1	1	3	2	3	2	1					
27	Voli Balavu C			1	1	1	1c	2	1	3	1	1	1	1a	1	1	1	2	3	1	1					
28	Voli			1	1	1	1c	2	1	3	2	2	2	1c	3	1	2	1	2	1	1					
29	Voli Kula			1	2	2	1c	3	1	3	3	3	-	2c	3	2	3	1	1	1	1					
30	Futuna Damu Leka			1	2	2	1c	3	1	3	3	3	-	2c	3	2	3	1	1	1	1					
31	Futuna Damu Leka 1			1	1	2	1a	3	1	3	2	1	2	1a	2	1	2	1	1	1	1					
32	Futuna Vula Leka Round			1	1	1	1a	3	1	3	2	1	2	1a	3	1	2	1	1	1	1					
33	Futuna Vula Leka B			1	1	1	1	1	1	2	1	1		1a	1	1	2	1		1	1					
34	Futuna			1	1	2	1a	3	1	3	2	1	2	1a	2	1	3	1	2	1	1					
36	Vurai Vula Leka			1	1	2	1a	3	1	3	2	1	2	1a	2	1	3	1	2	1	1					
37	Vurai Leka Leka			1	1	1	1a	3	1	3	2	1	2	1a	2	1	3	1	2	1	1					

* For definitions of descriptor codes see p. 36.

Table 21 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
38	Vurai			1	1	1	1c	2	1	2	2	1	2	1c	2	1	2	2	2	1	1					
39	Vurai Dina			1	1	1	1c	3	1	3	2	1	2	1c	2	1	2	2	2	1	1					
40	Vurai Dra			1	1	2	1c	3	1	3	2	1	2	1c	3	1	3	1	2	1	1					
41	Vurai Balavu			1	1	1	1a	2	1	1	1	1	1	1a	1	1	1	2	1	1	1					
43	Vili Leka Leka			1	1	1	1	3	1	3	2	1	1	1a	1	1	3	2	3	1	1					
44	Vili Balavu			1	1	1	1	3	1	3	2	1	1	1a	1	1	2	2	3	1	1					
45	Saido			1	3	1	1c	3	1	3	3	3	–	2c	3	2	3	1	2	1	1					
46	Peya			1	1	1	1	2	1	1	1	1	1	1a	1	1	1	1	2	1	1					
47	Poyai			1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	1	1					
48	Murapoi			1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1					
49	Uvi ni Toga			1	1	1	1c	2	1	3	2	2	2	1c	2	1	2	2	2	1	1					
50	Uvi ni Toga Light			1	1	1	1c	2	1	2	2	2	2	1c	2	1	1	2	2	1	1					
51	Sabu ni Bau A			1	1	1	1c	3	1	3	2	1	2	1c	1	1	1	1	1	1	1					
52	Sabu ni Bau A			1	2	1	1c	3	1	3	3	3	–	2c	3	2	3	1	2	1	1					
53	Sau Kala Bua			1	1	1	1c	2	1	3	2	1	2	1c	2	1	1	2	2	1	1					
54	Beka			2	1	1	1	3	1	3	1	1	1	1a	1	1	2	2	2	1	1					
55	Kasokaso			2	1	1	1	3	1	3	1	1	1	1a	1	1	3	2	3	1	1					
56	Teve			1	1	2	1a	3	1	3	2	2	2	1a	3	1	3	1	2	1	1					
57	Kuro			1	1	1	1a	3	1	3	1	1	1	1a	2	1	2	1	2	1	1					
58	Rewamoniro			1	1	1	1	2	1	3	1	1	1	1	1	1	3	1	1	1	1					
59	Rewamoniro			1	1	1	1	2	1	3	1	1	1	1	1	1	2	1	1	1	1					
60	Reado			1	3	1	1c	3	1	3	3	3	–	2c	3	1	3	1	2	1	1					
61	Jamani			1	1	1	1a	1	1	2	1	2	1	1a	1	1	1	1	2	1	1					
62	Jamani Damu			1	2	1	1c	3	1	3	2	2	2	1a	2	1	3	2	2	1	1					
63	Jamani Damu A			1	3	1	1c	3	1	3	3	3	–	2c	3	2	3	1	2	1	1					
64	Jamani Damu R			1	2	1	1c	2	1	2	2	1	2	2c	1	1	1	1	2	1	1					
65	Jamani Damu C			1	3	1	1c	3	1	2	3	3	–	2c	3	2	3	1	2	1	1					
66	Bilowahe			1	1	1	1c	3	1	3	2	1	2	1c	2	1	3	1	2	1	1					
67	Kivi			1	1	1	1c	2	1	2	2	1	1	1a	2	1	1	1	2	1	1					
68	Tatavu			1	1	1	1c	3	1	3	2	1	2	1c	2	1	2	2	2	1	1					
69	Davui			1	1	1	1c	2	1	3	2	1	2	1c	2	1	2	2	2	1	1					
70	Moala A			1	1	1	1c	2	1	3	2	1	2	1c	2	1	2	2	2	1	1					
71	Moala B			1	1	1	1c	2	1	3	2	1	2	1c	2	1	2	2	2	1	1					
72	Damovau Vula			2	2	1	1c	3	1	3	2	1	2	1a	3	1	3	2	2	1	1					
73	Nailolo			2	1	1	1	1	1	3	1	1	1	1	1	1	1	2	2	1	1					
74	Drawa			1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1					

Table 21 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
75	Sisiwa	1	1	1	1a	2	1	2	1	1	1	1a	1	1	1	2	2	1	1					
76	Sadaro	1	3	2	1a	3	1	3	3	3	–	2a	3	2	3	1	2	1	1					
77	Tinatina	1	1	1	1c	2	1	3	2	1	1	1c	1	1	1	1	1	1	1					
78	Guano Duimini	1	2	1	1c	2	1	3	2	3	2	2c	3	1	2	1	1	1	1					
79	Uvi ni Kawai	1	1	1	1a	2	1	3	1	1	1	1a	1	1	1	1	2	1	1					
80	Vola Damu	1	3	2	1c	3	1	3	3	3	–	2c	3	2	3	1	2	1	1					
81	Sikasika	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	2	1	1					
82	Salato	1	2	2	1c	3	1	3	3	3	–	2c	3	2	3	1	2	1	1					
83	Dabia Dina	1	1	1	1a	3	1	3	2	1	1	1c	2	1	2	1	2	1	1					
84	Dabia Vula	1	1	1	1c	2	1	3	1	1	1	1a	2	1	1	1	1	1	1					
85	Damuni Leka	1	1	2	1c	3	1	3	2	1	2	1c	3	1	2	1	2	1	1					
86	Damuni Balavu	1	1	1	1c	2	1	3	2	1	2	1c	3	1	2	1	2	1	1					
87	Dalua	1	1	1	1c	2	1	3	2	1	2	1a	1	1	2	1	1	1	1					
88	Lautolu	1	1	1	1a	2	1	1	1	1	1	1a	1	1	1	1	2	1	1					
89	Laivou Damu	1	1	1	1a	2	1	1	1	1	1	1a	1	1	1	1	2	1	1					
90	Toga Vuso	1	1	1	1a	3	1	3	2	1	2	1a	2	1	1	2	2	1	1					
91	Merelesita	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1					
92	Koregu	1	1	1	1c	3	1	3	1	1	2	1c	1	1	1	1	2	1	1					
93	Kaumaiale Rough	1	1	1	1a	3	1	3	2	1	2	1a	3	1	3	1	2	1	1					
94	Kaumaiale Smooth	1	1	1	1a	3	1	3	2	1	2	1a	3	1	3	1	2	1	1					

NIUE

By far, the main root crop on Niue is Colocasia and the number of taro varieties grown there is remarkable for such a small island. Many of the varieties flower readily and much hybridisation has probably taken place in the past. Germplasm collections of taro and other root crops are held by the Root Crops section of the Agriculture and Fisheries Department at Airport Farm (Curator: I. Halamamao, Research Assistant). They include all the varieties grown on the island, except that six varieties of D. esculenta, three of D. alata, two of D. bulbifera and a single D. pentaphylla are still to be collected. Numbers of local accessions are currently as follows:

	Accessions
Cassava	7
Colocasia	52
Sweet potato	12
D. alata	23
D. nummularia	1

Cassava

There has been only limited trial work on the Niue cassava collection (Table 22). Ka Uli Fua Uli and Ka Tea Fua Tea seem to be the most popular and highest yielding cultivars.

Taro

Fate Uli, Maga Tea and Maga Uli are the most common taro varieties in daily use on Niue. Varieties in the Manua family have large corms and are planted for ceremonial purposes only. Paku Fa Tea, Pula Fa Kula, Lau Megemege and Maga Faikai Tea also produce large corms. Lau Megemege is a particularly early-maturing variety. Maga Niukini has a very small corm but possibly a relatively high dry matter content. Niukini Falanu Ivaiva Uli and Maga Tea Kula also have high dry matter contents. Maga Lauila Tea, Maga Lauila Tuai and Pula Fa Lanu are thought to be less fibrous than other varieties. Descriptors are presented in Table 23.

Sweet potato

In an experiment in 1984, Simala Vai and Fua Tea Kakano Tea had by far the highest yields. Simala Kula is the best tasting variety and seems to be resistant to scab. Fua Kili Tea Kakano Fapogi may also have some resistance to scab. Descriptors are presented in Table 24.

Yam (D. alata)

Descriptions and evaluation of the Niue yam collection are not yet complete (Table 25). The best cultivars for appearance and cooking quality seem to be Lokaloko, Ufi Fua and Pia.

Table 22

DESCRIPTORS FOR CASSAVA VARIETIES OF NIUE

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Rarotonga	3	1	1	1	7			2	1	1	1		3	1	3					1
2	Ka Uli Fua Tea	3	1	2	2	7			3	1	2	1		1	1	1					1
3	Hiata	4	2	3	2	7			4	1	1	1		3	1	1					1
4	Ka Uli Fua Uli	3	2	1	2	7			3	1	2	3		3	1	1					2
5	Ka Tea Fua Tea	4	2	1	2	7			1	1	1	1		2	1	1					1
6	Ago	1	0	3	1	5			4	1	1	1		1	1	2					1
7	Pukofu	4	2	3	2	7			4	1	1	3		3	1	1					1

* For definitions of descriptor codes see p. 4.

Table 23

DESCRIPTORS FOR TARO VARIETIES OF NIUE

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Fate Fa Ivaiva Tea	0	2	1	0	1.50	3	0	3	2	2	4	1.55	411	242	242	4	0.59	3		1	1	0
Fate Fa Lanu	0	2	1	0	1.48	3	0	0	0	1	0	1.79	2--	2--	2--	4	0.59	3		1	1	0
Fate Fa Tea	0	2	1	1	1.43	3	0	2	2	2	4		3--	2--	2--	4		3	4	1	1	0
Fate Manua	0	3	1	0	1.50	3	0	2	2	1	1	1.79	4--	241	2--	1	0.67	3	1	1	1	1
Fate Pulaka	0	2	3	1		3	0	1	2		1		4--	2--	241	1		3		1	1	0
Fate Uli (Niue)	0	3	1	1	1.48	3	0	2	2	2	4	1.71	4--	243	243	4	0.51	3	4	1	1	0
Fate Uli Faliu	0	3	1	1	1.42	3	0	2	2	2	4	1.71	4--	4--	423	4	0.53	-	4	1	1	0
Ifo Kialu	0	1	1	0		2	0	3	2		3		3--	4--	4--	1		-		1	1	0
Ifo Kula Kiamu	0	2	1	1	1.44	3	0	3	2	2	3	1.76	4--	431	311	4	0.60	4	2	1	1	0
Ifo Lanu	0	2	1	0	1.39	3	0	1	2	1	0	2.22	131	131	132	1	0.56	3		2	1	0
Ifo Tea Avaava Kula	0	2	1	0	1.44	3	0	1	2	1	4	1.58	143	124	312	4	0.60	3	4	1	1	0
Ifo Uli	0	2	1	0		3	0	2	2	1	0		4--	242	4--	1		3		1	1	0
Lau Megemege	0	2	1	1	1.57	3	0	2	2	1	1	2.10	411	243	241	4		3	4	1	1	0
Maga Faikai Kula	0	3	1	1	1.33	3	0	3	2	1	3	1.56	4--	312	131	4	0.63	-	7	1	1	1
Maga Faikai Tea	0	2	1	0	1.51	3	0	1	1	1	0	1.36	1--	124	2--	4	0.54	3	7	1	1	0
Maga Lauila Tea	0	2	1	0	1.50	3	0	3	2	1	1	1.62	4--	2--	2--	1	0.48	-	7	1	1	1
Maga Lauila Tuai	0	2	1	1	1.40	3	0	3	2	1	3	1.65	411	1--	1--	4	0.66	3	7	1	1	1
Maga Niukini	0	1	1	0		3	0	1	2		1		411	1--	2--	1		4	7	2	2	0
Maga Nonu	0	2	1	1	1.58	3	0	1	2	2	3	1.61	3--	131	131	4	0.52	4	7	1	1	0
Maga Tea	0	4	1	0	1.50	3	0	1	2	1	0	1 62	1--	1--	123	1	0.56	3	7	1	2	1
Maga Tea Kula	0	2	1	0	1.41	3	0	1	1	1	0	1.69	2--	2--	2--	1		3	7	1	1	1
Maga Uli	0	2	1	0	1.41	3	0	1	2	2	0	1.62	1--	121	421	5		3				0
Maha Fa Lanu	0	2	1	1	1.39	3	0	1	2	1	0	1.51	2--	2--	2--	1	0.64	3	4	1	1	1
Maha Fa Tea	0	1	1	1	1.39	3	0	1	2	1	1	1.82	131	231	124		0.54	3		1	1	1
Malau	0	1	1	1		3	0	2	2	1	4		4--	4--	144	1		3	4	1	1	1
Manua Avaava Tea	0	2	1	0	1.39	3	0	0	0	2	1	1.56	142	212	212	1	0.58	3	3	1	2	0
Manua Fa Uli Ivaiva Tea	0	2	1	1		3	0	3	2	1	1		421	122	212			-				0
Manua Ivaiva Kula	0	2	1	0		3	0	0	0	2	1		144	212	231	4		3				0
Manua Tea	0	2	1	1	1.43	3	0	3	2	1	1	1.99	4--	411	1--	1	0.58	-	4	1	2	0
Manua Uli	0	2	1	1		3	0	3	2	1	3		4--	4--	4--	1				1	1	0
Mataga	0	3	1	1	1.44	3	0	1	2	2	3	1.52	3--	133	3--	4	0.52	3	7	6	3	0
Matavalu	0	2	1	0	1.73	3	0	1	2	2	3	2.60	131	124	4--	4	0.59	-	7	6	3	1

* For definitions of descriptor codes see p. 13.

Table 23 (cont'd)

Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Niukini Fa Lanu Ivaiva	0	2	3	0	1.44	3	0	1	1	1	0	1.80	122	122	122	1	0.66	–		2	1	0
Niukini Fa Tea	0	2	1	0	1.49	3	0	1	1	1	0	1.66	1--	124	124	1	0.50	–	7	2	1	0
Paku Fa Kula	1	2	1	0	1.54	3	0	1	2	1	3	1.71	411	1--	1--	4	0.49	3	4	4	1	0
Paku Fa Lanu	0	2	1	0	1.43	3	0	1	2	1	0	2.16	121	2--	2--	1	0.47	3	4	3	1	0
Paku Fa Tea	0	2	1	0	1.39	3	0	1	1	1	0	1.74	124	124	124	1	0.47	–	7	2	1	1
Paku Hega	0	1	1	1	1.31	3	0	2	2	1	3	1.95	3--	231	233	4	0.62	3	4	2	2	0
Palaveka (Pulekau)	1	2	1	1	1.45	3	0	1	2	2	0	1.54	241	241	231	4	0.60	3	4	6	3	1
Poetu Kula	0	2	1	1	1.52	3	0	1	2	2	1	1.36	3--	1--	1--	1	0.66	3	4	1	2	0
Poetu Uli	0	2	3	1	1.43	3	0	2	2	1	4	1.42	4--	4--	241	1	0.59	3	4	1	1	1
Pogi Fa Kula	0	2	1	1		3	0	3	2		3		4--	341	321	4		4		3		1
Pogi Kula Ivaiva Tea	0	2	1	1		3	0	1	2		1		4--	432	342	4		–				0
Pogi Uli	0	2	1	1	1.53	3	0	1	2	1	3	1.44	4--	4--	4--	5	0.55	3	4	1	1	0
Pogi Uli Fa Ivaiva Tea	0	1	1	1	1.56	3	0	1	2	2	3	1.59	3--	421	412	4	0.54	–	4	1	1	1
Pula Fa Kula	1	2	1	1	1.34	3	0	2	2	2	1	1.74	4--	423	344	4	0.57	–	3	2	2	1
Pula Fa Lanu	0	2	1	1	1.49	3	0	2	2	1	1	1.59	4--	241	2--	1	0.58	3	3	2	0	1
Pula Fa Tea	1	2	1	1	1.47	3	0	2	2	1	1	1.41	4--	411	1--	1	0.63	–	3	2		1
Talo Fiti	0	2	1	0	1.55	3	0	1	1	1	0	1.56	2--	2--	2--	1	0.53	3	4	1	1	0
Talo Fua (Pulekau)	0	3	1	0	1.41	3	0	1	2	2	0	1.92	1--	123	123	4	0.64	3	4	1	3	1
Toga Tea	1	1	1	0	1.51	3	0	2	2	1	4	1.64	4--	241	2--	4	0.62	–	4	1		0
Toga Uli	0	2	1	1	1.42	3	0	2	2	2	3	1.53	4--	241	241	4	0.63	4	4	1	1	0

Table 24

DESCRIPTORS FOR SWEET POTATO VARIETIES OF NIUE

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Simala Kakano Fapogi	1	2	2	2	3	2	IV2	12.1	15.8	2.3	2	1	3	2	1	6	20	0										
2	Kula Fua	1	2	2	3	5	2	II2				1	1	5	3	1	3	23	0										
3	Fua Kili Tea Kakano Faponi	2	2	2	2	1	0	IV2	9.6	10.2	1.0	2	1	5	2	1	1	14	0										
4	Tea Niue Tuai	1	2	3	3	1	2	III2	8.7	8.9	-0.2	2	1	1	1	1	3	20	0										
5	Simala Kula	1	2	2	2	4	1	IV2				2	2	5	2	1	3	20	0										
6	Kili Fapogi Kakano	1	2	1	2	3	1	III2				2	5	5	1	2	6	10	0										
7	Kakano Kilimoli	1	2	1	1	1	3	III2				2	1	5	2	1	3	30	0										
8	Fua Tea Kakano Tea	1	2	3	1	1	1	V3				3	2	5	1	1	1	10	0										
9	Simala Vai	1	2	3	1	1	1	III2	12.2	14.0	0.5	2	1	5	1	1	3	20	0										
10	A 8/1	1	2	1	3	5	1	III3				2	1	1	1	1	6	14	0										
11	Hawaii	1	2	3	1	1	3	IV3				2	2	1	1	1	5	20	0										
12	A 8/4	1	2	2	2	5	3	II				0	2	5	1	2	1	20	0										

* For definitions of descriptor codes see p. 27.

Table 25

DESCRIPTORS FOR YAM (*DIOSCOREA ALATA*) VARIETIES OF NIUE

Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Fua																					1	4	2		
Kavekave																					1	3	2		
Lavalu																									
Lei Niua																									
Lei Niukini																					2	2	1		
Loilifa																					6	3	1		
Lokaloko																					1	2	1		
Moea																					1	1	1		
Mulapo Kula																									
Paka																									
Paka Kula																									
Paka Tea																					1	4	1		
Pia																									
Pia Fua Peke																					2	2			
Pia Fulufulu																					1	5	1		
Pia Mulapa Tea																					2	4	1		
Pia Palai																									
Pia Kili Palai																					2	1	2		
Pia Segamao																									
Pia Voli																					6	3	1		
Toga Kula																					1	1	3		
Toga Tea																					1	1	2		
Voli																									

* For definitions of descriptor codes see p. 36.

PAPUA NEW GUINEA

Sweet potato is the most widely planted crop in Papua New Guinea, especially in the Highlands. Taro is the main root crop in some lowland areas. There is considerable environmental and cultural diversity within the country and a corresponding wealth of germplasm. Areas planted to different root crops are as follows:

	Area (ha)
Cassava	900
Colocasia	18,000
Xanthosoma	4,000
Sweet potato	72,000
Yams	7,000

The Department of Primary Industry maintains major root crop germplasm collections at Bubia Agricultural Research Centre (Curator: G. King, Acting Team Leader, Lowlands Food Crops Research Team), the Highlands Agricultural Research Station at Aiyura, Kuk Agricultural Research Station (Curator: B. Thistleton, Acting Team Leader, Highlands Food Crops Research Team), Laloki Plant Quarantine and Horticultural Research Station (Curator: M. Levett, Senior Horticulturalist), and others. The numbers of accessions held at Laloki, Bubia and Aiyura are as follows:

	Laloki	Bubia	Aiyura
Cassava	28	-	12
Colocasia	135	120	52
Xanthosoma	4	-	-
Alocasia	2	-	-
Sweet potato	693	-	812
D. alata	153	*(153)	6
D. esculenta	94	*(94)	-
D. nummularia	1	*(1)	7
D. pentaphyll	5	*(5)	1
D. bulbifera	1	*(1)	1

The sweet potato collection at Aiyura is the only one of the Papua New Guinea collections for which full descriptors are currently available (Table 26). It will not be maintained after the completion of the re-organization of research currently being carried out within the DPI, but is replicated, with additions, at Kuk. It is mainly made up of cultivars collected in the Highlands, though there are some 23 accessions from IITA and the USA (recognised by their NG introduction numbers). In contrast, the Laloki collection is mainly of lowlands cultivars, except for about 30 AVRDC lines and some 10 other exotic cultivars. It is being described and evaluated under dry lowlands conditions at Laloki and may be replicated at Kuk for further testing and sorting of duplicates. A number of cultivars from East New Britain and East Sepik are held at the Lowlands Agricultural Experiment Station at Keravat.

* Collections from Laloki will be later duplicated at Bubia

The Bubia taro collection is a duplicate of one held by the Department of Agriculture, University of Papua New Guinea. It (and also the yam collection at Bubia) is in the process of being described and evaluated. A taro breeding programme at Keravat has recently been discontinued. A taro collection of some 100 accessions is held there, and also some breeder's lines from the Solomon Islands programme. There is reported to be cassava material in Papua New Guinea resistant to the sap-sucking insect Amblypelta sp., which causes a shoot dieback. There is considerable need for further collecting of taro, yams and cassava in Papua New Guinea.

Sweet potato

Much trial work by the DPI in the past few years has resulted in the following recommendations for various environments:

Highlands: Markham 1 (72), Merikan (507, 672, 727?), Naveto (265, 537), Surenta (379?, 545).

Dry Papuan Lowlands: Keravat 40, Doura 1, Laloki 2, Unu 1, NG7571 (146; TIS 1487).

Humid Lowlands: Keravat 9, Keravat 13.

Esdieri (717?), Gonime (616), Kekori (730), Ma'ala (529), Mamme (427), Naveto (265, 537), Wan-mun Large and Wan-mun Kabiufa (728) are other varieties which do well under Highlands conditions. Also under evaluation are Keravat 2 (816), Kuru (679), Habare (443), Po (509), Wan-mun Small and accessions 736, 737 and 738. The majority of Papua New Guinea cultivars are resistant to scab; some cultivars are also thought to be resistant to Meloidogyne root-knot nematode. The following cultivars have been analysed by the ANU/ACIAR project: Bau, Habare, Kariap (548), Padua (429), Paipa, Parabea (500), Po, Sapel (416), Soii (494), Simbul Sowar (433), To-mun and Wan-mun. Bau and Padua had the highest energy contents. Bau, Wan-mun and Sapel were high in protein. Elite cultivars have been sent to Plant Research Institute (PRI), Burnley, Australia to be cultured from meristems and indexed for viruses. The collection is partially duplicated at AVRDC, which has been designated the sweet potato repository for Asia and the Pacific.

A printout has been supplied to the staff at Aiyura and Kuk of the accessions indexed on the following descriptors, in order: leaf shape (7), immature leaf colour (12), abaxial leaf vein colour (13), vine pigmentation (5), tuber skin colour (16) and tuber flesh colour (17). A similar indexing was used with the Solomon Islands collection and found to be successful in identifying duplicates. There are probably some 450 - 500 distinct cultivars in the Papua New Guinea Highlands collection. The results of the indexing are being checked in the field. A floppy disk containing full descriptors and passport data for the collection has also been supplied so that the database may be updated as necessary.

Table 26

DESCRIPTORS FOR SWEET POTATO VARIETIES OF PAPUA NEW GUINEA

	Village	Province	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1				1	2		2	1	2	11	9.1	9.7	1.4	0	1	1	1	1	1	10	2	2	3.1	3.2	1	1	3	4	1	2	1
2			Mea	1	2		2	1	3	113	10.4	10.5	1.4	3	2	1	2	1	1	10	2	2	2.8	3.5	2	1	2	4	2	1	1
3			Tokamuni	1	2		2	2	2	112	10.9	13.0	1.0	3	1	2	3	1	1	10	2	3	2.8	3.6	2	1	2	3	1	1	1
4			Fadenawena	1	2		2	1	3	11	9.0	9.5	0.9	0	2	1	2	1	1	10	2	2	2.9	3.2	1	1	4	4	1	2	1
5			Pamuk	1	2		2	1	3	11	9.7	11.1	0.9	0	1	1	2	1	1	10	1	2			1	1	2	4	2	2	1
6			Wambur	1	1		2	1	1	11	7.4	8.6	1.3	0	1	1	2	1	1	10	0											
7			Ka-age	1	3		3	3	2	11	12.9	13.9	3.4	0	2	1	3	1	1	10	2	3	2.9	3.8	1	1	4	2	1	1	1
8			Batusamph	1	1		1	1	3	12	12.4	13.8	2.5	0	4	1	2	1		10	0											
9			Wamakawama	1	2		1	1	2	11	7.4	8.3	1.1	0	1	1	1	1	1	20	0											
10			Manta	1	2		2	1	3	12	11.3	12.6	0.9	0	1	1	3	1	1	10	2	2	3.5	4.0	1	1	2	4	1	3	1
11			Barandran	1	2		2	1	3	11	10.4	11.5	1.2	0	1	1	2	1	1	10	2	2	3.2	3.9	1	1	2	4	1	2	1
12			Pilit	1	3		2	2	3	111	9.3	10.5	1.1	3	2	2	2	1	1	10	2	3	2.7	3.4	2	1	2	4	1	1	1
13			Rimbom	1	3		2	1	2	11	10.2	9.8	0.5	0	2	1	1	1	5	10	1	2	2.8	3.7	1	1	2	1	1	1	1
14			Yumpi	1	3		2	1	0	11	10.3	12.1	1.4	0	2	2	2	1	1	10	2	2	2.0	2.9	1	1	2	4	1	2	1
15			Pantena	1	2		1	1	3	11	8.2	8.1	1.3	0	2	1	2	1	1	10	1	2	2.8	3.0	1	1	4	4	1	2	1
16			Lae 13	1	2		1	1	0	112	8.5	9.9	1.0	3	1	1	2	1	1	20	0											
17			Rukane	1	2		3	3	2	11	9.4	9.8	1.5	0	1	1	1	1	5	10	3	3	2.8	3.3	1	1	2	1	2	1	1
18			Gerike	1	2		2	1	2	11	8.9	9.6	0.8	0	3	2	2	1	1	141	0											
19			Marisa	1	2		2	1	2	11	10.0	11.3	2.6	2	2	1	2	1	5	10	2	2	3.0	4.4	1	4	1	4	1	2	1
20			Lakikalaki	1	2		2	1	2	11	10.0	11.1	3.0	0	2	1	2	1	1	10	1	2	2.6	3.5	1	1	4	4	1	1	1
21			Kaboja	1	2		2	1	2	11	9.7	9.8	1.6	0	2	1	2	1	7	10	2	2	2.0	3.2	1	1	2	4	2	2	1
22			Upaka	1	2		2	1	2	11	10.9	11.5	3.0	0	2	1	1	1	5	10	2	2	2.0	3.8	1	1	4	1	1	2	1
23			Romba	1	2		1	1	1	113	10.9	11.2	1.6	1	2	1	2	1	1	10	2	2	3.0	3.3	1	1	2	4	2	2	1
24				1	2		2	1	3	112	8.8	10.8	2.8	1	4	1	2	1	6	20	2	2	3.1	4.0	2	2	2	4	1	2	1
25			Mena	1	2		2	1	3	11	8.4	9.1	1.9	0	4	1	1	1	7	10	2	2	2.9	3.5	2	1	2	4	1	2	1
26			Boromba	1	2		2	1	2	13	9.9	11.9	1.7	0	4	1	1	1	1	10	0											
27			Yura	1	2		2	1	2	11	9.3	10.1	1.4	0	2	3	2	1	1	10	2	2	2.8	3.6	2	1	2	4	1	1	1
28			Irati	1	2		2	1	2	11	11.2	11.5	1.5	0	2	1	2	1	1	10	2	2	3.2	3.4	1	1	2	4	1	2	1
29			Kork	1	2		2	3	3	11	11.5	10.8	0.4	0	2	1	2	1	6	10	1	2			1	1	2	1	1	1	1
30			Keman	1	2		2	2	2	11	9.5	11.9	2.0	0	3	3	3	1	3	322	1	2			1	2	2	4	2	3	1
31				1	2		2	1	2	11	10.4	11.6	2.0	0	4	1	2	1	5	10	2	3	2.8	3.7	1	1	5	4	1	1	1
32				1	2		2	1	3	11	11.4	12.5	2.4	0	2	1	2	1	5	10	3	3	2.9	3.8	1	1	2	4	2	2	1
33			Nigweja	1	2		2	1	2	11	10.4	11.6	3.2	0	2	1	2	1	6	10	2	2	2.9	4.0	1	1	4	4	1	2	1
34			Ukane	1	2		2	1	1	11	11.4	12.2	2.5	1	2	1	2	1	6	10	3	2	3.7	4.1	2	2	2	4	2	1	1
35			Lakalaka-ai I	1	2		2	1	2	113	6.4	6.3	1.0	1	2	1	2	1	7	10	3	2	2.7	3.1	1	1	2	4	2	1	1
36			Tugi II	1	2		2	2	1	11	9.3	12.2	2.1	0	3	3	3	1	3	322	1	2			1	2	2	4	1	3	1
37			Tugi I	1	2		2	1	3	11	10.3	12.1	1.8	0	2	1	1	1	6	10	2	3	3.0	3.4	1	1	5	3	1	1	1
38			Audi	1	2		2	1	3	11	11.8	12.4	1.1	0	4	1	3	1	4	10	2	2	2.7	3.2	1	1	2	3	1	1	1
39			Nanta	1	2		2	1	2	11	9.5	9.8	1.2	0	2	1	2	1	1	10	3	2	3.1	3.5	1	4	2	4	1	2	1
40			Sasuk	1	2		3	1	2	11	12.0	13.9	1.8	0	2	1	3	1	5	10	2	2	2.9	3.6	1	1	2	1	1	1	1
41			Lakalaka-ai II	1	2		3	1	2	11	12.0	10.7	1.2	0	2	1	3	1		10	2	2	3.0	4.5	1	1	2	1	1	1	1
42			Mambalmuna	1	2		2	1	1	11	8.7	8.5	1.2	0	5	6	2	1			0											
43			Annmadam	1	2		2	4	1	11	9.9	9.5	0.9	0	5	1	2	2	4	20	3	2	3.2	4.6	1	3	2	4	1	1	1
44			Tuki	1	2		2	1	2	11	11.8	10.6	2.0	0	2	1	1	1	6	10	1	2			1	4	2	1	1	1	1
45			Mununal	1	2		2	1	2	11	11.1	9.8	1.8	0	2	1	1	1	6	10	0											
46			Dagambo	1	2		2	1	2	11	9.9	10.6	2.8	0	2	1	2	1	5	10	1	2	2.6	3.5	1	4	4	4	1	2	1
47			Awuari	1	2		2	1	2	11	8.2	9.2	1.6	0	3	1	1	1	6	10	1	3	2.6	3.8	1	1	2	4	1	2	1
48			Onfu	1	2		1	1	1	112	9.9	10.9	1.6	1	4	1	2	1	5	10	1		3.0	3.8							
49			Wawambo	1	2		2	1	1	13	9.7	11.0	0.9	0	3	1	2	1	7	10	1										
50			Bunung	1	2		2	1	2	11	12.7	11.5	1.9	0	2	1	2	1	6	10	1	2	2.8	3.5	1	4	2	3	1	1	1
51			Dapel	1	2		2	1	3	11	10.0	9.6	1.3	0	2	1	2	1	6	10	1	2	2.9	3.7	1	1	2	3	1	1	1
52			Mundena	1	2		3	3	3	11	10.6	10.7	1.4	0	4	1	2	1	5	10	3	3	3.1	3.8	2	2	4	4	1	1	1
53			Arukoi	1	2		2	3	3	11	11.6	12.6	1.8	0	4	1	2	1	6	10	3	3	2.9	3.4	1	1	2	3	2	1	1

* For definitions of descriptor codes see p. 27.

Table 26 (cont'd)

Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
		Sowro	1	2		2	1	3	11	11.0	11.9	2.1	0	4	1	1	1	6	10	2	3	2.8	3.1	1	1	2	3	1	1	1
55		O.K. Hagen	1	2		2	3	3	111	13.0	10.9	0.6	2	5	1	2	2	5	20	3	2	3.9	4.7	2	2	2	4	2	1	1
56		Aruguay	1	2		2	1	2	11	10.9	12.4	1.4	0	2	4	2	1	6	10	2	2	3.0	3.3	1	1	4	1	1	2	1
57		Anogi	1	2		2	1	2	11	12.0	10.7	1.4	0	2	1	2	1	5	10	2	2	2.8	3.5	1	1	5	3	1	1	1
58		Tinalupia	1	2		2	3	3	112	12.0	12.5	2.5	1	3	1	1	1	5	10	1	3	2.5	3.7	1	1	2	3	2	1	1
59		Webo	1	2		3	1	2	11	11.1	12.2	2.1	0	2	1	2	1	6	10	2	2	2.8	3.9	1	4	5	4	1	1	1
60		Yo	1	2		3	1	2	11	13.0	11.5	2.0	0	4	1	1	1	6	10	1	3	3.2	3.7	1	1	2	3	1	1	1
61		CLTC Red Skin	1	2		2	3	2	11	9.5	9.5	1.1	0	5	1	2	1	5	20	1	2			2	2	2	4	2	2	1
62		Simbul	1	2		2	1	2	11	10.1	10.5	1.8	0	4	1	2	1	5	10	3	3	3.1	3.5	1	4	5	3	1	1	1
63		Korea	1	2		2	1	3	11	8.4	8.7	0.5	0	2	2	2	1	5	241	2	2	3.8	3.5	1	1	2	4	1	2	1
64		Lae 2	1	1		1	1	3	11	10.6	10.5	1.0	0	2	4	2	1	5	10	2	2	3.6	3.9	1	1	2	4	2	2	1
65		Modigiem	1	2		2	1	2	112	8.5	9.7	1.1	1	2	6	1	1	2	20	2	2	3.7	4.3	1	1	3	1	1	1	1
66		Ngulugu	1	2		2	1	2	11	10.5	11.5	2.2	0	4	6	2	1	1	10	2	2	2.6	3.3	1	1	1	2	2	1	1
67		Madienda	1	2		2	1	3	11	11.1	11.3	2.8	0	2	1	2	1	4	10	0										
68		Wantoat	1	1		2	4	1	112	10.5	12.6	0.8	1	2	7	3	1	3	331	0										
69		Wariambo	1	2		2	4	1	11	10.4	12.2	0.7	0	2	4	2	1	3	323	0										
70		Ngirakangir	1	2		1	1	2	11	9.4	9.9	0.1	0	3	2	1	1	1	143	0										
71		Markham 1	1	2		1	1	2	11	9.5	9.6	0.3	0	3	2	2	1		142	0										
72		Gurnish	1	2		2	3	2	11	9.9	10.9	1.6	0	3	1	2	1	6	10	2	3	2.9	3.3	1	1	2	1	1	1	1
73		UK. Markham	1	2		2	3	1	11	9.1	9.6	2.0	0	3	6	1	2			2	2	3.4	4.1	1	3	3	2	2	3	1
74		Faiv-Mun (SWIP)	1	2		1	1	2	11	10.4	9.9	0.8	0	2	4	3	1	6	10	2	2	3.3	3.6	1	2	2	4	2	1	1
75		Daramp	1	2		2	1	2	11	9.5	11.5	1.5	0	4	1	2	1	5	10	2	3	2.9	3.2	1	1	2	3	1	1	1
76		Mata (Malasang)	1	2		1	2	2	11	8.8	10.1	1.5	0	2	4	2	1	5	20	2	2	3.3	2.9	1	1	2	4	1	2	1
77		Kabbangwali	1	2		2	1	3	11	10.2	11.3	0.4	0	2	2	2	1	6	341	2	2	4.1	3.5	1	1	2	4	1	2	1
78		Kamkumu	1	2		2	1	1	11	9.6	9.6	0.5	0	2	3	2	1	6	142	1		3.4	4.2							
79		Nyiki Nyiki	1	2		1	1	1	11	10.2	9.7	-.1	3	2	2	1	1		143	0										
80		Persuwamb	1	2		3	1	2	112	11.8	13.2	1.1	1	2	2	3	1	1	10	3	2	3.7	4.6	1	1	4	4	1	2	1
81		Wasagap	1	2		3	2	2	11	12.4	13.4	2.7	0	4	6	2	1	1	131	1	2	2.5	3.4	1	1	1	1	2	1	1
82		Raria	1	2		3	1	2	11	10.3	11.8	1.6	0	3	1	2	1	5	10	2	3	2.9	3.7	1	1	2	3	1	1	1
83		Duki	1	2		2	2	2	12	9.0	10.2	0.9	0	2	2	1	1	1	10	2	2	3.8	4.3	1	4	2	4	1	2	1
84		Man	1	2		3	1	2	11	11.6	12.8	1.1	0	4	1	3	1	5	10	2	3	2.7	3.1	1	1	2	3	1	1	1
85		Siasi	1	2		1	1	2	11	8.9	9.8	0.2	0	3	2	2	1	1	142	0										
86		Batoro (Ra)	1	2		2	1	0	11	9.0	10.0	2.3	0	4	2	1	1	6	10	1	2			1	1	3	4	1	2	1
87		Sere	1	2		2	2	1	13	9.7	11.7	1.6	0	4	4	1	1	5	10	2	2	3.3	4.0	1	1	2	4	1	2	1
88		Gahuna	1	2		2	1	2	11	8.6	9.5	1.2	0	4	2	2	1	6	10	2	2	3.9	3.4	1	3	2	4	2	1	1
89		Wana (5-Mun)	1	2		2	1	3	11	10.7	11.6	1.7	0	4	2	3	1	6	10	2	2	3.4	3.0	2	3	2	4	2	1	1
90		Hapamunto	1	2		2	2	2	13	9.6	11.6	1.5	0	4	2	2	1	5	10	2	2	3.1	3.6	1	1	2	4	1	2	1
91		Ambiamp	1	2		2	1	1	111	8.2	8.1	0.5	1	4	6	2	1	5	10	0										
92		Nik (5-Mun)	1	2		1	1	3	11	9.7	10.1	0.3	0	2	4	2	1	6	10	2	2	3.9	4.1	1	1	2	4	2	1	1
93		Apuril (Nodugl)	1	2		1	2	1	11	8.1	9.0	1.2	0	5	4	1	1	5	10	1	2	3.2	4.1	1	2	2	4	2	1	1
94		Kuminambo	1	2		2	2	3	12	7.7	8.7	1.4	0	2	7	1	1	5	10	1	2	2.9	3.3	1	4	2	4	1	2	1
95		NG5461 (NZ)	1	2		2	4	2	112	10.0	11.9	1.3	1	2	2	2	1	1	10	2	2	3.5	4.1	1	4	2	4	1	2	1
96		Mata	1	2		1	2	2	11	7.9	8.9	1.4	0	2	4	1	1	5	20	2	2	3.6	3.2	1	1	2	4	1	3	1
97		Yambeda	1	2		3	3	1	12	11.3	11.2	1.7	0	3	1	2	1	2	20	2	2	3.3	3.8	1	3	3	2	1	2	1
98		UK. Markham E	1	2		3	1	2	11	12.4	13.7	2.2	0	4	2	2	1	6	10	1	2	2.5	3.3	1	1	1	1	2	1	1
99		Hagesafu	1	2		3	4	2	13	10.1	11.2	2.3	0	3	7	2	1	1	10	2	2	3.0	4.5	1	4	4	4	1	2	1
100		Yaira	1	2		3	2	2	11	13.5	14.0	2.3	0	2	2	2	1	1	10	2	2	2.8	3.6	1	1	3	4	1	2	1
101		Sokol	1	2		2	5	3	13	15.5	15.5	2.3	0	1	6	3	2	2	20	0										
102		Ma	1	2		2	2	3	11	7.8	8.7	1.5	0	2	2	1	1	1	10	1	2			1	1	1	4	1	1	1
103		Kinatoa	1	2		2	1	2	11	7.3	8.0	1.4	0	2	2	1	1	2	10	3	2	3.0	3.0	1	1	3	4	1	2	1
104		Kunna	1	2		2	1	2	11	13.9	12.8	1.9	0	3	6	2	1	1	10	2	3	3.0	3.4	1	4	2	4	2	2	1
105		Komea	1	2		2	2	2	11	9.5	11.1	1.7	0	2	3	2	1	8	10	1										
106		Kombo	1	2		2	1	2	11	9.0	9.1	1.1	0	5	1	2	1	1	10	2	2	3.2	4.0	1	1	2	4	1	2	1
107		Pumken	1	2		2	3	2	112	10.2	9.5	1.2	1	5	7	2	2	5	10	0										
108																														

Table 26 (cont'd)

Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
109		Yokamuni	1	2		2	2	1	13	7.0	9.9	1.6	0	5	4	2	1	1	10	0										
110		Meke-enta	1	2		3	4	1	11	8.7	11.0	1.7	0	2	7	2	2	1	10	3	2	3.4	4.2	1	2	4	4	1	1	1
111		Pakava	1	2		2	2	2	11	8.9	11.0	1.7	0	3	3	2	1	7	10	1										
112		Laki	1	2		3	1	1	11	10.5	12.0	1.5	0	3	1	1	1	1	10	2	2	3.6	3.9	2	2	3	4	1	2	1
113		Andiapa	1	2		2	2	2	11	10.5	12.2	1.7	0	4	6	2	1	7	10	2	2	2.9	3.7	1	1	5	4	1	1	2
114		Ramamp	1	2		2	2	0	11	9.8	10.0	0.3	0	2	3	2	1	1	10	0										
115		Amamba	1	2		2	4	1	11	8.6	9.5	1.8	0	5	2	2	1	4	10	2	2	2.3	3.1	1	1	3	4	1	2	2
116		Kakai	1	2		2	4	3	11	10.3	11.8	1.3	0	4	6	2	2	1	20	2	2	2.5	3.3	1	1	2	1	1	2	1
117		Damiambo	1	2		2	1	2	111	9.0	10.9	1.0	1	2	2	2	1	1	10	2	2	3.4	4.0	1	1	2	4	1	2	1
118		Yeira	1	2		2	2	2	11	10.0	11.6	1.6	0	2	6	1	1		10	1	2	3.2	3.8	1	4	1	4	1	2	1
119		Lakikalaki	1	2		1	2	1	12	8.7	9.5	0.6	0	4	7	2	1	2	20	1	2			1	1	2	4	1	2	1
120		Wambu	1	2		2	3	1	11	10.7	10.1	0.3	0	5	2	1	2	2	20	3	2	4.1	4.6	1	3	2	4	2	1	1
121		Kuli	1	2		2	2	1	11	9.4	11.1	1.6	0	2	2	2	1	2	231	0										
122		Parabia	1	2		3	2	1	11	10.7	13.4	1.9	0	4	2	3	1	3	232	3	2	3.6	4.2	1	2	2	4	2	3	1
123		Kani	1	2		2	2	1	12	8.0	9.6	1.8	0	3	2	2	1	4	232	1	2	3.3	3.9	1	1	2	4	1	2	1
124		M'Bare Sweet	1	2		2	4	1	12	11.1	12.6	1.0	0	2	4	3	2	3	321	0										
125		Kani	1	2		1	2	1	12	8.4	10.7	1.8	0	4	2	2	1	4	232	0										
126		Wariamb	1	2		2	4	1	12	10.9	13.4	0.5	0	2	4	3	2	3	322	0										
127		Hema	1	2		2	4	3	11	9.7	11.4	1.9	0	4	4	2	1	8	143	2	2	2.7	3.6	1	1	2	4	1	1	1
128		Gorohakowe	1	2		1	1	2	11	8.6	9.5	0.2	0	1	4	2	1	8	143	0										
129		Banangen	1	2		1	1	2	11	9.6	10.6	0.3	0	1	2	2	1	8	143	1	3			1	2	2	4	2	2	1
130		Azonadi	1	2		2	1	2	11	9.3	10.4	1.0	0	5	6	1	1	2	241	2	2	3.1	3.7	1	2	2	4	1	2	1
131		Madan	1	2		2	1	2	11	10.7	12.3	1.4	0	3	6	2	1	2	241	2	2	3.3	4.0	1	2	2	4	1	2	1
132		Truk	1	2		2	1	2	11	10.2	11.1	1.8	0	2	2	2	1		10	2	2	2.7	3.0	1	1	1	3	1	2	1
133		NG 5467 (NZ)	1	2		3	3	3	11	12.4	15.0	1.0	0	3	2	3	2	7	10	3	2	3.6	4.6	1	3	2	4	2	1	1
134		Manda A	1	2		3	1	2	11	9.1	10.9	2.3	0	2	2	2	1	8	10	2	2	3.4	4.2	1	1	4	4	1	2	1
135		NG472	1	2		3	1	1	11	11.0	12.7	1.9	0	2	4	2	1	5	10	2	2	4.1	4.4	2	1	5	4	1	3	1
136		UK. Markham B	1	2		2	2	1	11	10.1	9.5	0.5	0	5	6	2	1	5	20	2	2	3.8	3.3	1	1	2	4	2	2	1
137		Namasuto	1	2		2	1	2	11	7.0	8.5	0.9	0	2	2	1	1	5	10	1	2			1	1	2	4	1	2	1
138		Kurina	1	2		3	1	2	11	11.1	13.4	1.3	0	2	2	2	1	5	10	2	2	2.7	2.9	1	1	1	4	1	2	1
139		Sodeae	1	2		2	1	2	11	7.4	8.1	1.1	0	4	2	1	1	8	10	0										
140		Yagari	1	2		2	1	3	13	9.8	12.9	2.0	0	3	2	2	1	6	10	2	2	2.5	3.2	1	1	3	4	1	1	3
141		Araditaiok	1	2		2	1	1	11	9.4	10.1	1.2	0	5	7	1	1	8	10	2	3	3.4	3.8	1	3	5	4	1	2	3
142		Sikik	1	2		2	1	1	11	8.3	9.4	1.6	0	2	2	2	1	5	10	2	2	3.4	3.9	1	1	3	4	1	2	1
143		Wan-Mun Tambul	1	2		2	3	1	11	8.9	10.1	1.0	0	5	7	1	2	5	10	2	3	3.2	3.6	1	3	5	4	1	2	3
144		Amboihena	1	2		2	1	2	11	8.0	9.8	0.9	2	4	2	1		1	10											
145		NG 7573	1	2		1	5	0	11	8.8	8.9	0.8	0	4	7	2	2	3	30	1		3.1	3.7							
146		NG 7571	1	2		2	1	2	11	9.7	10.4	2.1	0	2	3	3	1	8	10	2	2	2.7	3.6	1	1	1	3	1	3	1
147		NG 7574	1	1		1	1	0	11	8.1	8.4	1.5	0	4	1	2	1	3	30	0										
148		NG 7575	1	2		2	3	0	11	8.7	9.4	1.1	0	3	2	3	1	1	10	1		2.9	3.4							
149		NG 7572	1	2		2	5	0	11	11.4	11.1	2.1	0	2	2	2	2	3	30	2	3	3.6	4.1	1	1	2	4	2	3	1
150		NG 7475	1	2		1	2	0	11	9.9	10.5	1.0	0	2	4	2	1	6	10	2	2	3.4	3.5	1	1	2	4	1	2	1
151		NG 7473 (USA)	1	2		2	1	1	11	10.6	11.2	1.9	0	4	6	2	1	5	10	3	3	2.9	3.4	1	1	5	4	1	1	2
152		NG 5470 (NZ)	1	2		2	3	2	11	11.1	13.5	1.3	0	3	2	3	2	5	10	2	2	4.0	4.8	1	3	2	4	2	1	1
153		Para Kevaph	1	2		2	2	2	112	9.4	11.2	2.6	1	3	3	1	1	6	20	2	2	3.2	3.1	1	1	2	4	1	2	1
154		Kapapi	1	2		2	1	3	13	9.6	11.8	2.0	0	4	3	2	1	6	20	2	2	2.4	2.5	1	1	3	4	1	3	1
155		Yaito	1	2		2	1	2	13	9.9	11.8	0.9	0	2	3	2	1	5	10	1	2	2.9	3.3	1	1	3	4	1	3	1
156		NG 5469 (NZ)	1	2		3	3	1	11	9.6	11.6	1.3	0	2	4	2	1	5	10	2	2	3.8	4.0	2	1	2	4	2	3	1
157		Wangi	1	2		3	1	2	11	10.5	11.7	1.5	0	2	3	3	1	5	10	1	2	3.2	3.7	2	1	4	4	1	2	1
158		Wainge	1	2		2	2	2	11	9.9	11.3	2.1	0	3	6	2	1	8	10	2	3	3.0	3.8	1	1	3	3	1	1	2
159		Ingida	1	2		2	1	2	12	8.3	9.6	1.3	0	2	2	2	1	5	10	2	2	3.3	3.7	1	1	3	4	2	2	1
160		Wan-Mun 132	1	2		1	2	0	11	14.5	14.5	1.0	0	1	4	3	1	5	10	2	2	3.5	3.5	1	1	2	4	1	2	1
161		Curuva	1	2		2	1	1	11	10.4	12.3	0.9	0	2	4	2	1	6	10	2	2	3.2	3.8	1	1	1	4	1	2	1
162		Mung	1	2		2	1	2	11	9.5	9.6	1.2	0	5	1	2	1	5	20	0										

Table 26 (cont'd)

Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
163		Perth	1	2		2	1	3	13	10.7	10.5	2.5	0	3	2	3	1	5	20	2	2	3.3	2.9	1	1	2	4	1	2	1
164		Ysiavers	1	2		1	1	3	13	5.8	7.9	1.4	0	2	2	1	1	5	10	1										
165		Sauriki	1	2		2	2	2	12	8.8	10.8	1.9	0	4	6	1	1	5	20	2	2	2.8	3.4	1	2	1	4	1	2	1
166		Pore	1	2		2	1	1	11	11.6	10.6	1.1	0	2	4	3	1	6	142	0										
167		Pihta	1	2		2	1	2	112	9.8	11.3	2.2	1	4	1	2	1	6	10	2	2	3.2	3.6	1	2	2	4	1	3	1
168		Geranet	1	2		3	3	2	11	12.8	12.7	0.8	0	5	1	2	2	6	20	3	2	4.1	4.4	1	3	2	4	2	2	1
169		M'Bara	1	2		2	5	1	12	11.5	13.1	0.7	0	1	4	3	2	3	232	0										
170		Moropia	1	2		2	3	2	12	8.1	9.9	1.9	0	2	6	1	2	5	20	2	2	2.6	2.7	1	2	1	4	1	1	1
171		Nama	1	2		2	1	0	11	11.7	10.3	1.2	0	2	3	3	1	6	142	1	2			1	1	2	4	1	1	1
172		Opa	1	2		2	1	2	11	11.4	11.3	1.6	0	2	1	2	1	1	10	3	2	3.2	3.8	1	1	2	1	1	1	1
173		Opha	1	2		2	1	2	1113	8.8	9.9	1.0	2	1	1	1	1	1	10	3	2	3.1	3.4	1	1	3	2	1	1	1
174		Pokau	1	2		1	1	2	1113	8.8	10.0	0.8	2	1	1	1	1	1	10	1	2			1	1	3	4	1	2	1
175		Akaio (Yokat)	1	2		2	1	2	1113	11.0	13.0	1.8	2	2	1	3	1	1	10	2	2	3.4	4.0	1	1	3	4	1	3	1
176		Yumundi	1	2		3	1	2	1113	10.4	12.4	1.3	2	1	1	2	1	1	10	2	2	3.0	3.9	1	1	2	4	1	2	1
177		Ysuningi	1	2		2	1	2	1113	10.7	13.4	1.1	2	1	1	2	1	1	10	1	2	3.0	3.7	1	1	2	4	1	3	1
178		Mare	1	2		2	1	1	IV3	12.2	11.6	-.3	2	2	1	3	1	1	10	2	2	3.5	3.4	1	1	2	4	1	2	1
179		Akaio (Keroph)	1	2		2	1	3	1112	11.1	13.6	1.6	2	2	1	3	1	1	10	2	2	3.1	3.8	1	1	3	4	1	3	1
180		Yamatu	1	2		2	1	1	1113	11.4	14.0	1.2	2	1	1	3	1	2	10	1	2			1	1	2	4	1	2	1
181		Kingipi	1	2		2	1	1	1113	10.0	11.6	0.9	2	2	1	2	1	1	10	2	2	3.1	3.9	1	1	5	4	1	2	1
182		Gorokamb	1	2		2	1	2	1113	10.6	13.4	1.4	2	2	1	2	1	1	10	2	2	3.0	3.6	1	1	3	4	1	3	1
183		Unknown 381	1	2		2	1	3	1112	10.6	12.7	1.5	2	2	1	2	1	1	10	2	2	3.2	3.7	1	1	3	4	1	3	1
184		Kingip II	1	2		2	1	1	11	10.1	8.8	1.0	0	2	1	2	1	1	10	2	2	3.3	3.9	1	1	2	4	1	1	1
186		Yameyefa	1	2		2	1	2	1113	10.4	12.8	1.3	2	1	1	3	1	1	10	2	2	3.1	3.9	1	1	2	4	1	2	1
187		Piksin	1	2		1	1	0	11	7.9	9.8	1.4	0	2	2	2	1	2	20	0										
188		Mipi Kenggon	1	2		2	1	2	1112	11.6	12.3	0.6	2	2	1	1	1	5	10	2	2	3.3	3.7	1	1	2	4	1	2	1
189		Merrar	1	2		2	1	1	112	8.7	9.1	1.1	1	4	2	1	1	5	10	2	2	2.7	2.9	1	1	1	4	1	2	1
190		Mabinto	1	2		3	1	1	112	8.9	8.3	0.9	1	4	2	2	1	6	10	2	2	2.8	3.0	1	1	4	4	1	1	1
191		Markham II	1	2		2	1	1	IV3	10.3	12.6	1.2	2	4	1	2	1	5	10	1	2			1	4	4	4	1	2	1
192		Konamp	1	2		2	1	0	1112	9.8	10.4	1.1	2	2	1	2	1	5	10	2	2	3.3	3.3	1	1	2	4	1	2	1
193		Wailamp	1	2		2	1	2	1113	12.5	13.4	0.9	2	2	1	3	1	5	10	2	2	3.3	4.3	1	1	4	4	2	2	1
194		Fagama	1	2		2	1	1	IV3	10.6	12.1	1.0	2	4	1	2	1	5	10	1	2	3.2	3.8	1	1	4	4	1	3	1
195		Rambera	1	2		3	1	2	11	11.1	9.7	1.3	0	5	1	2	1	4	10	2	2	3.2	4.1	1	2	2	4	1	1	1
196		Kunumun	1	2		2	1	2	112	8.3	9.6	1.3	1	4	1	2	1	1	10	2	3			1	1	4	4	1	3	1
197		Yalameya	1	2		3	1	2	1113	10.4	13.4	0.7	2	4	1	2	1	7	10	2	2	3.2	4.0	1	1	2	1	1	2	1
198		N'Dorisi I	1	2		2	1	2	IV2	11.4	14.4	0.4	2	3	1	2	1	6	10	1	2	3.4	4.4	1	1	2	4	2	2	1
199		Jimbenamp	1	2		2	1	1	IV2	11.5	14.8	2.2	2	3	1	2	1	4	10	2	2	3.3	4.1	1	1	2	4	1	3	1
200		Ofari?	1	2		2	1	2	IV2	12.9	14.0	0.4	2	5	2	3	1	1	20	2	3	4.0	4.1	1	3	4	4	1	1	1
201		Junamp	1	2		2	1	0	IV2	10.3	10.4	0.3	2	2	2	2	1	2	10	3	2	3.5	4.2	1	1	2	4	1	2	1
202		Abunum	1	2		2	1	2	1112	8.2	8.6	0.9	2	1	1	1	1	1	10	2	2	3.2	3.7	1	1	3	2	1	1	1
203		Palangi	1	2		2	1	2	112	9.4	9.3	1.2	1	4	2	1	1	5	10	2	2	2.8	2.9	1	1	1	4	1	2	1
204		Aiva	1	2		2	1	2	IV3	10.3	13.4	1.3	2	4	1	2	1	6	10	0										
205		Samanti	1	2		2	1	2	1112	11.0	12.3	1.0	2	2	1	3	1	5	10	1	2	3.4	3.8	1	1	2	4	1	3	1
206		Opume	1	2		2	1	2	1112	8.4	8.6	0.0	2	2	2	2	1	5	10	2	2	3.2	3.4	1	1	3	3	1	2	1
207		Domambu	1	2		3	3	1	112	10.2	11.0	1.6	1	4	1	2	1	5	10	2	2	3.7	3.8	1	2	2	4	1	3	1
208		Kengi	1	2		3	3	2	1112	8.9	9.5	1.2	2	3	1	2	1	5	10	3	2	3.6	3.4	1	2	2	4	1	3	1
209		Ruru	1	2		3	1	2	112	10.7	9.9	1.4	1	3	1	1	1	2	10	2	2	3.3	3.6	1	1	2	3	1	2	1
210		NG 5466 (NZ)	1	2		3	1	2	11	11.1	10.5	1.2	0	3	1	3	1	8	10	2	2	3.1	3.7	1	2	3	4	1	1	2
211		Merehe	1	2		1	2	0	1112	9.2	10.8	2.1	2	1	3	3	1	1	10	0										
212		Areniamb	1	2		3	3	2	111	9.2	9.7	1.0	1	4	1	3	1	5	10	3	2	3.3	3.5	1	2	2	4	1	3	1
213		Merenta	1	2		1	1	1	11	8.5	9.2	1.5	0	2	1	1	1	6	10	0										
214		Gusavinan	1	2		1	1	2	IV2	9.7	10.4	1.3	2	4	1	2	1	5	10	2	2	2.9	3.2	1	1	2	1	1	2	1
215		Anngo	1	2		3	3	1	112	9.4	10.5	1.4	1	4	1	2	1	6	10	2	2	3.7	3.9	1	2	2	4	1	3	1
216		Wakum	1	2		2	1	1	112	10.9	13.0	1.6	1	2	2	2	1	1	10	3	2	3.5	4.1	1	4	2	4	1	2	1
217		Warobaramp	1	2		2	1	2	12	9.9	10.7	0.8	0	4	1	3	1	5	10	1	2			1	1	2	4	1	2	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2	2	2	2	
218			Malasang I	1	2		3	3	1	I1	9.9	10.0	1.0	0	4	1	2	1	5	10	2	2	3.5	4.2	1	2	3	4	1	1	1
219			Irenteno	1	2		2	1	1	I12	9.0	10.0	1.3	1	4	1	2	1	5	10	2	2	3.7	3.5	1	2	2	4	1	3	1
220			Aruamph	1	2		2	2	1	I1I2	9.9	11.5	2.0	2	2	3	2	1	1	10	2	2	2.9	4.0	1	1	2	4	1	2	1
221			Paragamp	1	2		2	1	0	I12	10.5	12.1	2.2	1	2	2	2	1	2	10	1	2			1	1	2	4	1	2	1
222			Ysungaperian	1	2		2	2	0	IV2	8.9	11.2	1.8	2	1	4	2	1	2	10	0										
223			Mafaya	1	2		2	2	1	I1I3	8.8	10.9	1.3	2	2	4	2	1	1	10	0										
224			Guni	1	2		2	2	1	I1I3	8.8	11.7	1.2	2	4	4	2	1	1	10	3	2	3.0	3.7	1	1	3	4	1	2	1
225			Kapapi	1	2		2	2	1	I12	9.8	10.1	1.2	1	2	3	2	1	5	10	2	2	2.8	3.0	1	2	2	4	1	2	1
226			Kereveri 166	1	2		2	2	0	I11	11.0	12.4	2.3	1	2	3	3	1	1	10	2	2	3.0	4.2	1	1	2	4	1	2	1
227			NG 5463 (NZ)	1	2		1	1	1	I1I3	11.3	13.4	1.7	2	4	3	2	1	2	20	2	2	2.9	3.5	1	1	3	4	1	2	1
228			Iyumph	1	2		2	1	2	I1I2	9.3	10.5	0.9	2	2	2	2	1	1	10	2	2	2.5	3.0	1	1	3	3	1	1	1
229			Wanmunamb	1	2		2	1	2	I1	11.1	11.3	1.2	0	2	2	2	1	1	10	3	2	3.3	3.7	1	4	3	4	1	2	1
230			Rauri	1	2		1	1	0	I11	10.8	11.3	1.0	1	2	2	3	1	1	231	2	2	3.8	3.8	1	1	3	4	1	3	1
231			Jengel Toemp	1	2		2	2	2	I1	10.2	11.0	2.1	0	2	2	2	1	8	10	3	2	3.1	3.8	1	1	3	3	1	2	1
232			Sueara	1	2		2	1	3	I12	10.4	11.4	2.2	1	3	2	2	1	5	20	2	2	3.2	3.0	1	1	2	4	1	2	1
233			Jsumienkai	1	2		2	2	2	I1	10.5	10.6	0.4	0	2	4	2	1	8	10	2	2	3.5	3.3	1	1	2	4	1	2	1
234			Agu	1	2		2	1	2	I1I3	10.1	12.1	1.4	2	4	6	2	1	1	10	2	2	3.2	3.8	1	1	3	4	1	2	1
235			Gunnin	1	2		2	1	2	I1I3	8.4	11.4	0.8	2	1	2	1	1	5	10	2	2	3.3	3.4	1	1	3	4	1	2	1
236			Dauve	1	2		3	3	2	I1I1	9.6	11.0	1.7	2	3	1	2	1	5	10	3	2	3.5	3.3	1	2	2	4	1	3	1
237			Pora	1	2		2	1	0	I12	9.6	9.2	1.2	1	3	6	2	1	8	10	2	2	3.4	3.7	1	1	3	4	1	1	1
238			Minip	1	2		1	3	2	I1I2	11.7	12.1	1.5	2	2	4	2	2	6	141	0										
239			Gehanegamitoke	1	2		3	1	1	I12	10.8	12.6	1.3	1	3	6	2	1	1	10	2	2	3.2	4.1	1	1	3	4	1	2	1
240			Simbu	1	2		1	3	1	I1I2	9.6	9.6	1.1	2	4	4	3	2	2	10	2	2	3.3	4.1	1	1	2	4	2	2	1
241			Kasakasa	1	2		2	2	3	IV3	10.6	11.7	0.4	2	4	6	2	2	6	10	2	2	3.5	3.0	1	1	3	4	1	2	1
242			Amba	1	2		2	1	1	I1I3	11.4	13.8	1.5	2	4	6	1	1	2	10	2	2	3.4	4.2	1	1	3	4	1	2	1
243			Hagirara	1	2		2	1	1	I1I2	9.4	8.0	0.4	2	2	7	1	1	1	10	2	2	3.5	3.4	1	1	2	4	1	2	1
244			Simph	1	2		2	1	1	I1I3	8.3	10.	1.3	2	4	6	1	1	2	10	2	2	3.0	3.6	1	1	3	4	1	2	1
245			Porenag	1	2		2	2	1	I1I2	9.5	11.5	1.2	2	4	6	1	1	2	10	2	2	2.8	3.2	1	1	3	4	1	2	1
246			Gora	1	2		2	1	1	I12	8.5	8.1	1.0	1	3	6	2	1	1	10	2	2	3.2	3.5	1	1	4	4	1	1	1
247			Rambea II	1	2		3	1	1	I12	9.9	9.3	1.2	1	3	6	2	1	1	10	2	2	3.1	3.4	1	1	4	4	1	1	1
248			Diait	1	2		3	2	1	IV2	11.5	12.9	1.2	2	3	6	2	1	2	20	2	2	3.3	4.0	1	1	3	4	1	2	1
249			Kiga	1	2		2	1	3	I12	10.2	12.7	1.2	1	2	2	2	1	1	10	2	2	2.8	3.2	1	1	2	4	1	2	1
250			Kagua	1	2		2	4	2	I1I3	9.9	12.5	1.6	2	4	7	2	2	5	10	1	2	3.3	3.7	1	2	4	4	1	3	1
251			Asaroka	1	2		2	4	0	I1I2	9.2	9.1	1.1	2	2	4	2	2	2	10	2	2	3.4	3.9	1	1	2	4	1	2	1
252			NG 7570	1	2		3	1	0	I12	7.9	7.6	0.7	1	3	6	1	1	1	10	2	2	2.9	3.2	1	1	4	4	1	1	1
253			Nembi	1	2		3	1	1	I3	11.7	14.2	2.7	0	4	1	3	1	5	10	2	2	3.3	4.1	2	4	2	4	1	3	1
254			NG 7573	1	2		1	5	0	I11	8.7	9.4	1.3	1	4	7	1	2	3	30	2	3	3.0	3.5	1	2	1	4	1	1	1
255			NG 7474 (USA)	1	2		1	5	0	I11	8.3	8.6	0.8	1	4	7	2	2	3	30	1	3	3.0	3.7	1	2	4	4	1	1	1
256			NG 7472 (USA)	1	2		1	5	0	I11	8.1	8.5	0.8	1	4	7	2	2	3	30	1	2	3.0	3.8	1	2	4	4	1	1	1
257			NG 7477 (IITA)	1	2		1	3	0	I1	8.0	8.6	0.7	0	5	2	2	1	1	20	2	2	3.2	4.1	1	1	2	4	1	1	1
258			Minibali	1	2		2	1	2	I1I3	8.9	10.4	0.9	2	3	6	2	1	2	10	3	2	2.9	3.4	1	1	3	4	1	2	1
259			N'Droisi II	1	2		2	1	1	I1I3	9.8	11.4	1.1	2	4	6	1	1	2	10	2	2	3.2	4.0	1	1	3	4	1	2	1
260			Sembeng	1	2		3	1	0	I1I3	11.6	11.7	1.0	2	3	6	2	1	1	10	2	2	3.5	3.8	1	1	2	4	1	1	1
261			Meumun	1	2		3	2	1	I1I2	12.2	14.2	1.4	2	4	4	2	1	2	20	3	2	3.1	3.5	1	1	3	4	1	2	1
262			Sarasa	1	2		3	1	1	I1I2	10.6	11.2	0.9	2	1	1	1	1	3	30	2	2	3.6	3.6	1	2	4	4	1	2	1
263			Ofari	1	2		3	3	0	I1I2	11.9	12.2	1.5	2	4	2	2	2	5	10	2	2	3.5	3.5	1	2	4	4	1	1	1
264			Lokaiatina	1	2		2	1	1	IV2	9.7	10.2	0.8	2	3	2	2	1	5	10	2	2	3.0	3.5	1	1	2	4	2	1	1
265			Naveto	1	2		2	2	2	IV3	11.0	11.6	0.7	2	4	3	3	1	5	10	1	2								2	1
266			Maga	1	2		2	4	1	IV2	10.1	10.7	0.6	2	2	3	2	1	7	10	1	2			1	1	2	4	1	3	1
267			Perawa II	1	2		2	1	1	I1I2	8.3	9.8	1.1	2	3	6	2	1	5	10	1	3	2.8	3.5	1	1	4	4	1	2	2
268			Wan-Mun	1	2		3	1	1	I1I2	10.4	11.6	0.7	2	2	1	1	1	5	10	1	2			1	2	2	4	1	2	1
269			Waizap	1	2		1	1	2	IV1	9.8	10.7	0.2	2	5	3	2	1	5	241	2	2	3.8	3.9	1	3	3	4	2	2	1
270			Amoke (GLTC)	1	2		2	1	1	I1I1	8.4	9.7	1.0	2	1	2	1	1	8	10	1	2	3.2	3.4	1	1	2	4	1	2	1
271			Wambinbaka	1	2		1	1	2	I12	8.8	11.1	2.4	1	4	1	2	1	8	232	2	2	3.1	3.2	1	2	2	3	2	2	1
272			Lae 4	1	2		2	2	1	I11	10.7	10.1	0.5	1	5	7	3	1	5	20	2	2	3.6	3.5	1	1	2	4	2	2	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
			Simbangap	1	2		2	2	1	III2	11.7	11.4	1.6	2	5	7	2	1	4	10	2	2	2.9	3.3	1	2	3	2	1	1	3
273			Wamakawama II	1	2		1	4	1	III2	14.3	15.0	1.0	2	3	7	3	2	5	141	1	2	3.4	4.3	1	1	2	4	1	2	1
274			Pite	1	2		2	2	1	III2	11.5	14.1	1.8	2	4	7	3	1	2	10	1	2			1	2	2	4	1	2	1
275			Wan-Mun Siar	1	2		2	1	1	IIII	10.1	10.4	0.4	2	5	2	2	1	4	10	2	2	3.1	4.0	1	1	3	4	1	2	1
276			Seyo	1	2		1	4	1	III2	9.0	8.5	0.9	2	2	7	2	2	1	10	2	2	3.3	4.1	1	1	2	4	2	1	1
277			Pito	1	2		2	4	2	III2	8.0	9.2	1.7	2	3	7	1	2	4	10	3	2	3.3	3.8	1	2	2	4	1	2	1
278			Pinch	1	2		3	1	1	II	10.8	12.2	1.7	0	4	4	2	1	4	10	3	2	3.8	4.1	1	1	2	4		3	1
279			UK. Markham A	1	2		2	4	1	I2	9.8	9.3	0.3	0	5	7	2	1	2	10	1	2			1	2	2	4	1	2	1
280			Wan-Mun Kariufa	1	2		2	3	1	I1	10.0	9.8	0.3	0	3	7	1	2	4	20	2	2	3.6	4.4	1	3	2	4	1	2	1
281			Okinawa	1	2		2	3	1	I1	9.6	9.0	0.3	0	3	6	1	2	4	20	2	2	3.4	4.0	1	3	4	4	2	2	1
282			Sisiar	1	2		2	2	2	III2	13.2	13.8	1.7	2	2	3	3	1	5	10	2	2	3.0	3.3	1	1	4	3	1	2	1
283			Aforema Iae	1	2		1	4	1	IV2	8.8	10.7	1.2	2	5	2	1	2	5	10	1	2	3.3	3.5	1	2	2	4	1	1	1
284			Harland 1	1	2		2	1	1	I1	8.1	9.3	2.0	0	1	3	2	1	2	10	0										
285			Kute Tata	1	2		2	1	2	IIII3	9.9	11.3	1.7	2	3	6	1	1	5	10	1	2	3.3	4.2	1	1	2	4	1	2	2
286			Karaph Kulua	1	2		3	1	2	IIII3	10.7	12.1	1.0	2	4	7	2	1	2	20	3	2	3.1	3.7	1	1	3	4	1	2	1
287			Wamakawama I	1	2		2	4	3	II2	10.7	12.7	1.6	1	3	6	2	2	5	10	2	2	2.4	3.1	1	2	4	3	1	3	1
288			Kivep	1	2		1	1	2	I2	11.7	12.2	1.0	0	2	2	2	1	5	143	2	2	3.4	4.7	1	1	2	4	1	2	1
289			Gonime 2	1	2		2	3	0	IV2	9.4	8.7	1.0	2	5	1	1	2	5	10	2	2	3.2	3.8	1	2	1	1	1	3	1
290			Ofari	1	2		2	1	1	II2	10.2	12.2	2.1	1	2	1	2	1	5	10	2	2	3.0	3.7	1	1	2	4	1	2	1
291			Oka Omung	1	2		2	1	1	IIII2	10.5	13.0	0.6	2	2	1	2	1	5	10	2	2	3.2	3.4	1	1	2	4	1	2	1
292			Parawa II	1	2		2	3	1	IV2	9.4	10.8	0.9	2	3	2	2	1	5	10	3	2	2.9	3.4	1	1	2	3	1	2	1
293			Jereh	1	2		2	2	2	V3	10.5	13.7	1.4	3	3	6	2	1	2	20	1	2	2.9	3.9	1	4	2	4	1	2	1
294			Faya-e	1	2		1	4	1	II2	10.2	11.1	0.7	1	5	6	2	1	2	10	2	2	3.2	4.1	1	2	2	4	1	1	1
295			Kashipamb	1	2		2	4	3	IIII2	10.3	11.4	0.8	2	4	4	2	1	5	10	3	2	3.5	4.0	1	2	3	4	1	2	1
296			Unknown 41	1	2		2	2	2	IIII2	12.3	13.5	1.4	2	2	4	3	1	8	10	2	2	3.0	3.3	1	1	2	3	1	2	1
297			Simbu	1	2		2	4	2	IV2	10.8	11.9	0.8	2	2	4	2	1	5	10	2	2	2.9	3.3	1	4	2	3	1	2	1
298			Aferomaya-E	1	2		2	2	2	III2	11.0	12.4	1.2	2	2	4	2	1	8	10	1	2			1	4	2	3	1	2	1
299			Parenuk	1	2		3	3	0	III2	10.5	10.4	1.2	2	3	6	2	1	1	10	3	3	3.5	3.9	1	1	2	4	1	1	1
300			NG 5462 (NZ)	1	2		2	4	1	IIII2	15.8	16.3	2.0	2	2	2	3	1	5	20	3	3	4.0	4.0	1	2	2	4	1	2	1
301			NG 5464 (NZ)	1	2		2	4	2	I1	8.8	10.2	1.8	0	4	2	2	1	5	10	2	2	2.8	3.0	1	1	3	4	1	2	1
302			NG 5468 (NZ)	1	2		2	4	1	IIII2	14.3	14.5	1.7	2	2	2	3	1	5	20	3	3	3.9	3.9	1	2	2	4	1	2	1
303			Wan-Mun Madang	1	2		1	4	0	IIII	9.5	9.4	0.4	2	5	7	1	2	5	10	0										
304			Sareri	1	2		2	5	1	IIII2	12.5	12.8	1.3	2	3	3	2	2	5	242	2	2	3.3	3.6	1	3	3	4	2	2	1
305			Pinua	1	2		1	1	1	IV3	9.0	8.4	0.4	2	4	1	2	1	2	10	1										
306			Pela	1	2		2	3	2	IV3	10.3	13.0	1.6	2	4	7	3	1	2	10	3	2	3.2	4.3	1	4	2	3	1	2	1
307				1	2		2	2	1	IIII3	10.9	12.0	1.3	2	2	3	3	1	5	10	2	2	3.3	4.1	1	2	2	4	1	3	1
308	Kama	EHP		1	2		2	1	1	IV2	10.0	9.2	0.4	2	4	1	2	1	1	10	1	3	3.3	4.4	1	1	2	4	1	1	1
309			Ofari	1	2		2	1	2	IIII3	11.6	13.4	1.2	2	1	1	3	1	2	10	0										
310			Kurevanb	1	2		1	1	2	IIII3	10.2	11.9	1.0	2	1	1	2	1	2	10	2	2	3.1	3.6	1	1	2	4	1	2	1
311			Dumambo	1	2		2	1	1	IV3	9.7	11.0	0.4	2	2	1	3	1	1	10	1	2	2.6	3.4	1	1	2	3	1	2	1
312			Lokaiatina	1	2		1	1	1	IV3	10.1	11.7	0.7	2	2	1	2	1	5	10	2	2	2.7	3.4	1	1	2	4	1	1	1
313			Deka	1	2		3	1	1	IV3	8.0	9.0	0.2	2	1	6	2	1	5	10	2	2	2.6	3.1	1	1	2	4	1	1	1
314			Tega	1	2		2	1	2	IV3	8.3	8.1	-.5	2	4	1	1	1	1	10	2	3	3.0	3.1	1	1	2	4	1	2	1
315			Dekau I	1	2		2	1	1	V2	13.8	13.0	0.5	3	2	1	2	1	1	10	2		3.4	4.1							
316			Moniyamb	1	2		2	1	2	IV3	10.3	11.2	0.8	2	3	1	2	1	1	10	2	2	3.0	3.3	1	1	2	4	1	2	2
317			Korale	1	2		1	1	2	IV2	8.7	9.3	0.5	2	4	1	1	1	1	10	2	3	2.8	3.4	1	1	2	4	1	2	1
318			Dekau II	1	2		1	1	3	IV3	9.2	10.9	1.4	2		1	1	1	1	10	2	2	2.8	3.7	1	1	2	4	1	1	1
319			Fep	1	2		2	1	2	IV3	10.4	11.5	0.7	2	3	6	3	1	2	10	1		4.3	4.5							
320			Yiki I	1	2		2	1	2	IV3	9.8	10.9	0.7	2	3	6	3	1	1	10	2	2	3.3	4.4	1	1	3	4	1	3	2
321			Sakarikamp	1	2		2	1	3	IV3	9.1	8.6	0.3	2	4	1	1	1	1	10	1	3			1	1	3	4	1	2	1
322			Dekanau	1	2		2	1	2	IV2	11.6	11.8	0.6	2	3	6	2	1	1	10	1	2			1	1	2	4	1	2	1
323			Ma'alua	1	2		2	4	2	IV2	8.3	8.8	0.3	2	4	7	1	2	5	10	3	2	3.3	3.8	1	2	2	4	1	1	1
324			Kake-u	1	2		2	3	2	IV3	9.0	10.0	0.7	2	3	1	2	2	5	10	2	2	3.4	4.0	1	1	1	4	1	3	1
325			Gorokamp	1	2		1	1	2	IIII2	9.3	9.0	1.2	2	4	1	1	1	3	30	3	2	3.7	3.4	1	1	2	4	2	3	1
326			Kia	1	2		1	1	1	IV3	8.8	10.3	0.2	2	1	1	2	1	5	10	2	2	2.7	3.3	2	1	4	4	1	1	1
327			Karangu																												

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
328			Kunbik	1	2		2	3	2	IV3	10.0	11.6	0.8	2	3	1	3	1	5	10	2	2	3.3	3.6	1	1	1	4	1	3	1
329			Dumambo	1	2		3	1	2	IV2	11.4	11.7	1.0	2	4	1	2	1	5	10	1	2	3.0	3.7	1	1	4	4	1	2	1
330			Nosbolamb	1	2		1	1	1	IIII3	8.6	10.0	0.4	2	2	1	2	1	6	10	0										
331			Kapina	1	2		2	4	2	IV2	8.7	9.2	0.3	2	4	7	2	2	5	10	1	2	3.4	4.1	1	1	1	4	1	1	1
332			Gomowena	1	2		2	1	1	IV2	10.1	10.2	0.3	2	4	1	2	1	1	10	1										
333			Moni	1	2		1	3	1	V2	10.5	14.0	1.8	3	5	6	2	2	3	10	0										
334			Laberas	1	2		1	1	2	IV2	8.8	10.2	0.1	2	4	1	2	1	5	20	2	2	3.3	3.3	1	2	2	4	1	2	1
335			Sakum	1	2		1	1	2	IV2	10.4	13.0	0.4	2	4	1	2	1	5	20	2	2	3.1	2.8	1	2	2	4	1	2	1
336			Omija	1	2		2	1	1	IIII2	10.0	10.9	0.1	2	2	1	2	1	8	10	3	2	3.1	3.4	1	1	4	2	1	2	1
337			Simbu 243	1	2		2	1	2	IV2	10.4	9.0	0.3	2	4	1	2	1	2	10	2	3	3.1	4.4	1	1	4	4	1	2	1
338			Dorou	1	2		1	1	2	V3	9.4	9.7	0.5	3	3	1	1	1	6	10	0										
339			Dumangi	1	2		2	3	2	V2	9.0	10.4	0.5	3	3	1	2	2	5	10	2	2	3.4	3.8	1	1	2	4	1	3	1
340			Marangap	1	2		2	1	2	IIII3	10.1	11.3	0.6	2	2	1	2	1	6	10	0										
341			Kalu	1	2		2	1	2	IV2	10.2	10.5	1.1	2	5	1	2	1	5	10	2	2	3.0	3.6	1	1	2	4	2	2	1
342			Yafameya	1	2		2	1	1	IIII3	11.1	13.5	1.1	2	4	4	1	1	2	20	2	2	2.9	3.5	1	1	3	4	1	2	1
343			Azonade	1	2		2	2	2	V3	10.8	13.6	1.2	3	4	4	2	1	2	10	3	3	3.0	3.4	1	1	4	3	1	1	1
344			Monzapava	1	2		3	2	2	IV3	11.0	14.4	1.3	2	4	7	2	1	1	20	3	2	2.8	3.4	1	4	4	3	1	1	1
346			Nilap	1	2		2	1	0	IV2	9.8	10.4	0.6	2	1	2	3	1	1	10	2	2	3.5	3.9	1	1	2	4	1	2	1
347			Koruaoi	1	2		2	3	1	IV3	13.6	15.1	0.4	2	4	1	2	2	1	10	2	2	3.3	3.9	1	2	3	4	1	2	1
348			Akupal	1	2		2	3	1	IV3	10.3	12.6	1.0	2	4	6	2	1	2	10	2	2	3.1	3.8	1	1	4	3	1	1	1
349			Simbangap	1	2		3	2	1	IV3	11.8	16.3	2.2	2	4	4	2	1	1	10	2	2	2.8	3.7	1	1	5	4	1	1	1
350			Leeda	1	2		2	2	1	V3	11.8	15.6	1.6	3	3	6	2	1	1	10	3	2	3.0	3.7	2	2	3	4	1	2	1
351			Morome	1	2		2	2	1	V3	12.2	16.9	1.5	3	3	6	2	1	7	20	3	2	2.9	4.2	2	2	3	4	1	2	1
352			Gomangi	1	2		2	3	1	IV2	8.7	10.9	1.2	2	1	7	2	2	6	142	1										
353			Puju	1	2		2	3	1	IIII2	8.6	9.1	-.1	2	2	7	2	2	6	242	3	2	3.2	3.5	1	2	2	4	1	2	1
354			Kunoranp	1	2		2	3	1	IIII2	9.2	9.3	-.1	2	2	7	2	2	6	142	3	2	3.5	4.0	1	2	2	4	1	2	1
355			Waginoramp	1	2		2	4	2	IV3	9.8	12.5	1.6	2	4	6	2	1	1	10	2	2	2.9	3.6	1	1	2	4	1	1	1
356			Lae 3	1	2		1	2	2	IV2	9.2	9.9	0.6	2	4	3	2	1	6	10	1	2			1	1	4	4	1	2	1
357			Kinamp	1	2		2	4	0	V3	9.2	11.5	1.0	3	4	6	1	2	1	10	0										
358			Kiagap	1	2		2	2	1	IV2	10.1	12.5	1.6	2	4	6	2	1	2	20	3	2	3.0	4.0	1	4	2	4	1	1	1
359			Nambamb	1	2		1	4	2	IV3	11.4	13.6	1.3	2	3	6	1	1	1	10	2	2	2.8	4.0	1	4	4	4	1	2	1
360			Gonmayam	1	2		1	4	3	V3	9.3	11.8	0.5	3	4	4	1	1	1	10	2	2	3.0	3.7	1	4	2	4	1	1	1
361			Bayor	1	2		2	2	2	IV3	11.3	15.4	2.1	2	4	7	1	1	1	10	2	2	3.0	3.3	1	4	5	4	1	2	1
362			Pore	1	2		2	1	1	V2	13.1	13.3	0.7	3	2	1	7	1	2	10	1	2	3.2	4.1	1	1	2	4	1	3	1
363			Rurah	1	2		1	1	2	IV2	12.2	10.8	-.4	2	2	1	2	1	1	10	2	2	3.4	3.8	1	1	2	4	1	2	1
364			Ayafayafa	1	2		2	4	2	IV3	9.8	12.7	1.5	2	4	7	1	1	1	10	2	2	2.8	3.4	1	4	2	4	1	1	1
365			Bulu	1	2		2	5	3	V2	8.3	9.5	0.2	3	4	7	2	2	6	10	2	2	3.3	4.1	1	2	3	4	1	2	1
366			Monyam	1	2		2	4	1	IV2	7.6	9.1	0.0	2	4	7	1	2	6	10	3	2	3.3	4.2	1	2	4	4	1	1	1
367			Jiki II	1	2		2	2	0	IV3	9.5	11.9	1.1	2	2	2	3	1	1	10	2	2	2.9	3.6	1	1	4	4	1	1	1
369			Nun	1	2		1	2	0	IV3	14.3	14.3	0.5	2	4	4	2	1	1	10	0										
370			Gehane	1	2		1	2	0	IV3	10.0	12.7	1.5	2	4	2	2	1	1	10	2	2	2.9	3.3	1	1	4	4	1	2	1
371			One	1	2		2	1	0	IV3	9.9	12.1	-.2	2	2	2	2	1	5	10	0										
372			Meremce	1	2		1	2	3	IIII2	8.8	10.9	0.7	2	4	4	2	1	5	10	1	2	3.1	3.4	1	1	2	4	1	2	1
373			Ma'aso	1	2		2	3	3	IV3	9.6	10.7	0.5	2	2	7	2	2	1	10	2	2	3.1	2.8	1	1	2	4	1	2	1
374			Wakgiamb	1	2		2	1	2	IV3	11.0	12.9	0.3	2	1	2	2	1	1	10	1		3.3	4.3							
375			Pora	1	2		2	1	2	IV3	10.8	12.3	-.1	2	4	6	2	1	1	10	2	2	3.2	3.6	1	1	5	4	1	2	1
376			Goi	1	2		2	3	0	IV2	10.5	10.8	0.2	2	5	7	1	2	2	10	0										
377			Takame	1	2		1	4	0	IIII2	9.2	8.6	0.0	2	3	7	2	1	4	10	1	3			1	1	5	4	1	1	1
378				1	2		1	2	3	IV3	11.7	13.2	0.7	2	4	2	2	1	1	10	2	2	3.1	3.9	1	1	5	4	2	2	2
379			Surenta Type	1	2		2	4	2	V3	12.5	16.7	1.5	3	3	7	2	2	5	10	3	2	2.9	3.7	1	2	3	4	1	2	1
380			Batate	1	2		3	3	2	IIII2	10.1	11.0	1.0	2	3	1	2	1	1	10	2	2	3.2	3.4	1	2	3	4	1	2	1
381			Kuruva	1	2		2	4	2	IV3	11.0	13.0	0.6	2	3	7	3	1	5	10	1										
383			Adiada	1	2		2	4	2	V3	11.8	15.8	2.2	3	3	7	2	2	4	10	3	2	3.2	4.1	1	2	3	4	1	2	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
384			UK.Markham C	1	2		2	3	2	IV2	10.8	12.0	1.0	2	3	2	2	1	5	10	1	2	3.0	3.8	1	1	2	4	2	1	1
385			Goleliamp	1	2		2	3	2	IV2	11.5	12.8	0.8	2	3	6	2	1	5	10	2	2	3.0	3.6	1	1	2	4	2	1	1
386			Unknown 458	1	2		2	3	2	IV2	10.4	11.1	0.6	2	3	6	2	1	5	10	2	2	2.9	3.5	1	1	2	4	2	1	1
387			Merenge	1	2		2	4	2	III3	10.7	12.6	1.0	2	2	4	3	1	5	10	2	2	3.3	3.8	1	2	2	4	1	3	1
388			Waragambo	1	2		3	3	2	IV2	10.9	12.1	0.6	2	2	7	2	2	1	10	2	2	3.2	3.2	1	1	2	4	1	2	1
389			Morogamp	1	2		1	1	2	V3	10.8	11.1	0.9	3	2	1	2	1	5	10	0										
390			Bunung 12	1	2		1	1	0	IV2	12.0	11.3	0.5	2	2	1	3	1	1	10	0										
391			Irit	1	2		2	1	2	IV2	9.3	11.4	1.5	2	4	1	2	1	1	10	2	2	3.5	3.8	1	1	2	4	1	3	1
392			Pink	1	2		2	1	2	IV2	10.2	10.4	0.3	2	4	1	2	1	2	10	1	3			1	1	1	4	1	2	1
393			UK. Markham F	1	2		1	1	2	IV2	9.9	9.6	0.4	2	4	1	2	1	1	10	1										
394			Perevan	1	2		3	1	2	III2	9.4	10.6	0.7	2	3	1	2	1	2	10	3	2	3.5	4.0	1	2	2	4	1	2	1
395			Hagen	1	2		1	1	2	IV2	11.4	12.8	1.0	2	4	1	1	1	5	10	2	2	2.7	3.3	1	1	2	4	1	3	1
396			Gonime	1	2		3	3	3	IV3	9.5	9.9	0.9	2	3	1	2	1	5	10	2	2	3.6	4.1	1	2	2	4	1	3	1
397			Marangen	1	2		2	3	1	IV2	8.8	9.5	0.8	2	3	6	2	1	5	10	2	2	2.8	3.4	1	1	2	4	2	1	1
398			Lae 8	1	2		1	5	0	V2	11.5	10.9	-.2	3	4	4	1	3	5	10	2	3	3.4	3.9	1	4	3	4	1	2	1
399			Ogan	1	2		2	4	1	V3	11.2	14.8	1.4	3	3	7	2	2	4	10	2	2	3.3	4.1	1	2	3	4	1	2	1
400			NG 7576	1	2		1	5	0	IV2	12.8	12.3	0.0	2	3	6	2	2	5	10	2	2	3.2	4.0	1	4	2	4	1	1	1
401			NG 7479 (IITA)	1	2		1	1	1	IV2	10.8	10.7	-.4	2	2	4	2	1	6	10	0										
402				1	2		2	4	2	IV2	8.1	8.5	0.3	2	2	7	1	2	1	10	3	2	3.3	3.4	1	1	2	4	1	2	1
403				1	2		1	4	1	III	9.1	9.3	0.4	1	5	7	2	2	1	10	0										
404				1	2		2	3	2	IV2	9.9	10.6	1.0	2	3	6	2	1	6	10	2	2	3.0	3.7	1	1	2	4	2	1	1
405			Gonime I	1	2		1	3	0	IV2	8.6	9.7	1.0	2	5	1	1	2	5	10	2		3.2	3.5	1	2	2	4	1	1	1
406				1	2		2	4	2	IV3	11.0	12.1	0.5	2	3	6	2	2	5	10	1	2	2.9	3.2	1	1	2	4	1	3	1
407	Tulum	SHP	Karaku	1	2		2	3	2	IV2	9.9	11.6	0.8	2	3	1	2	1	5	10	2	2	3.5	4.2	1	1	3	4	1	3	1
408	Tulum	SHP	Momoli	1	2		2	1	1	I1	9.4	8.9	0.6	0	5	3	1	1	7	10	2	2	5.1	4.2	1	1	2	4	1	1	1
409	Nembi	SHP	Ma	1	2		3	4	1	III2	10.7	12.5	1.9	2	3	7	2	2	5	10	2	2	3.6	4.4	1	2	4	4	1	1	1
410	Nembi	SHP	Simbul	1	2		2	1	1	IV3	10.7	13.3	0.7	2	4	4	2	1	1	10	1	2			1	1	2	4	2	2	1
411	Pori Kopiago	SHP	Tari Ina	1	2		3	3	1	III	10.7	11.7	1.7	1	3	4	2	1	2	10	3	2	3.4	3.7	1	2	2	4	1	2	1
412	Karel	SHP	Seka	1	2		3	1	0	IV3	11.1	11.5	0.4	2	1	1	2	1	1	10	2	2	3.2	3.8	1	1	2	4	1	2	1
413	Tulum	SHP	Kikojup	1	2		3	1	0	II2	11.8	13.2	2.0	1	3	1	3	1	1	10	2	2	3.4	3.5	1	1	4	2	1	2	1
414	Kiburu RC	SHP		1	2		2	1	0	I1	9.9	9.6	0.3	0	1	3	2	1	1	10	2	2	3.5	3.7	1	1	2	4	1	1	1
415	Kiburu RC	SHP	Markham	1	2		1	1	2	I1	10.3	10.4	-.3	0	1	2	2	1	1	142	0										
416	Kiburu RC	SHP	Sapel	1	2		2	5	1	I3	12.1	13.9	1.6	0	3	4	3	2	1	20	1										
417	Kiburu RC	SHP		1	2		1	1	2	I1	8.9	9.1	1.4	0	3	1	2	1	5	10	1		2.6	2.8							
418	Kiburu RC	SHP		1	2		1	3	2	I1	8.5	9.3	3.2	0	3	6	1	2	6	10	1										
419	Map	SHP	Meseipa	1	2		3	4	0	III3	10.9	12.2	2.0	2	2	6	2	1	1	10	3	2	3.0	3.7	1	4	3	4	1	1	1
420	Piwa	SHP	Sapan	1	2		1	1	0	III2	8.8	11.3	2.1	2	1	3	2	1	1	10	0										
421	Pori Kopiago	SHP	Kiasuku Ina	1	2		2	2	1	I1	12.0	12.4	0.7	0	5	6	3	1	2	10	1	2			1	2	2	4	1	2	1
422	Nembi Plateau	SHP	Kiko	1	2		2	1	1	II2	11.3	12.9	0.8	1	1	1	2	1	1	10	3	2	3.3	4.3	1	1	1	4	2	2	1
423	Nembi Plateau	SHP	Kirol	1	2		2	1	1	II2	8.9	10.7	1.8	1	2	1	2	1	6	10	1	2	2.9	2.5	1	1	1	4	1	2	1
424	Kiburu RC	SHP		1	2		2	3	2	IV1	11.6	10.5	0.1	2	3	6	2	2	5	10	1	2	3.2	3.9	2	1	1	4	1	2	1
425	Tulum	SHP	Tegeltoemb	1	2		2	1	1	III	8.5	9.5	2.0	1	3	1	2	1	5	10	3	2	2.8	3.1	1	1	4	4	1	2	1
426	Kiburu RC	SHP	Gao	1	2		2	3	2	III2	12.3	13.1	1.7	2	3	3	3	1	6	10	2	2	3.6	3.5	1	2	4	3	1	2	1
427	Nembi Plateau	SHP	Inla	1	2		3	2	0	III2	11.9	12.0	0.8	2	2	4	2	1	5	10	2	2	3.0	2.9	1	1	3	4	1	2	1
428	Tulum	SHP		1	2		3	1	0	III2	9.9	10.4	1.4	2	1	2	2	1	1	10	1	2	3.2	3.2	1	1	4	4	1	2	1
429	Piwa	SHP	Padua	1	2		2	1	2	I1	10.5	12.2	1.6	0	1	6	3	1	3	10	2	3	3.3	3.7	1	2	3	4	1	3	2
430	Kiburu RC	SHP		1	2		2	3	1	I1	9.3	10.7	1.8	0	4	2	1	1	5	10	0										
431	Kiburu RC	SHP		1	2		2	1	1	II2	8.6	9.5	1.0	1	2	1	1	1	1	10	1		2.7	3.6							
432	Tulum	SHP	Terek	1	2		2	3	2	I1	10.2	10.6	2.0	0	3	6	2	2	6	10	1	2			1	1	2	1	1	2	1
433	Tulum	SHP	Simbul Sowar	1	2		2	4	1	III2	11.6	14.6	1.0	2	3	4	3	1	1	10	2	2	3.2	4.0	1	1	2	4	1	2	1
434	Tulum	SHP	Kijip	1	2		2	1	2	I1	11.9	11.5	1.3	0	1	1	3	1	1	10	3	2	3.4	4.1	1	1	3	4	1	1	1
435	Map	SHP		1	2		2	1	0	I1	14.5	13.1	0.9	0	3	1	3	1	1	10	1	2	3.0	3.6	1	1	4	4	1	1	1
436	Kiburu RC	SHP		1	2		2	3	2	I1	10.5	12.5	2.8	0	2	1	2	1	5	10	0										
437	Kiburu RC	SHP		1	2		3	5	1	IV2	11.0	13.4	1.2	2	5	7	2	3	6	10	2	3	3.7	4.3	1	3	2	4	1	2	2
438	Piwa	SHP	Tandayi	1	2		2	3	2	IV2	10.6	11.4	1.1	2	3	6	2	2	5	10	1	2	3.1	3.8	1	1	2	4	2	1	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
439	Tulum	SHP	Pumpkin	1	2		2	3	2	I1	10.9	11.9	2.4	0	4	4	2	2	5	10	3	2	3.0	3.6	1	2	3	4	1	2	1
440	Kiburu RC	SHP	Tage	1	2		2	1	2	I2	10.0	10.5	1.3	0	3	1	2	1		10	3	2	3.3	3.4	1	1	1	4	1	1	2
441	Kiburu RC	SHP		1	2		2	3	2	II2	7.7	8.1	0.2	1	4	6	1	1	1	10	2	3	2.7	3.9	1	1	2	4	1	1	1
442	Nembi Plateau	SHP	Ma	1	2		1	1	1	I2	9.7	9.9	0.5	0	4	1	2	1	1	10	3	2	3.3	4.4	1	1	2	4	1	2	1
443	Piwa	SHP	Habare	1	2		2	1	2	IV2	10.1	11.6	1.0	2	2	1	3	1	2	10	1	2	3.4	3.5	1	1	2	4	1	2	1
444	Kiburu RC	SHP		1	2		2	1	2	I1	9.9	9.7	2.2	0	2	4	1	1	5	10	1		2.4	3.2							
445	Karel	SHP	Tame	1	2		1	1	1	I1	11.9	12.8	0.6	0	2	1	3	1	1	10	3	2	3.3	4.3	1	1	3	4	1	2	1
446	Piwa	SHP	Taramap	1	2		2	2	1	I1	10.7	11.9	1.1	0	4	7	3	2	4	232	2	3	3.1	3.5	1	2	2	4	1	3	1
447	Kiburu RC	SHP	Porenong	1	2		2	3	1	III2	9.6	10.5	1.4	2	3	6	2	1	5	10	1	3			1	1	3	4	1	2	2
448	Kiburu RC	SHP		1	2		2	3	1	III2	11.0	12.8	0.8	2	4	6	2	1	1	10	2	2	3.0	3.9	1	1	3	4	1	2	1
449	Komea	SHP	Pokara	1	2		3	1	1	I1	13.0	11.9	1.0	0	1	1	3	1	1	10	3	2	3.6	4.3	1	1	3	4	1	1	1
450	Piwa	SHP	Wari	1	2		2	1	1	III	9.2	10.6	1.4	1	2	3	3	1	1	10	3	2	3.5	4.3	1	1	4	4	1	2	1
451	Nembi Plateau	SHP	Kongu	1	2		2	2	2	IIII	9.2	8.9	0.3	2	1	4	2	1	1	10	2	3	3.8	3.7	1	1	2	4	1	2	1
452	Piwa	SHP	Irali	1	2		3	1	2	I1	11.2	12.9	1.9	0	1	2	3	1	1	10	3	2	3.0	3.9	1	1	1	4	1	2	1
453	Helaguali	SHP	Watumali	1	2		3	4	1	I1	9.1	9.6	0.9	0	4	7	2	2	5	10	2	2	3.3	3.9	1	1	2	4	1	2	1
454	Kiburu RC	SHP		1	2		1	4	1	I2	9.7	10.5	0.4	0	2	6	2	2	5	10	1	2	3.9	3.2	1	1	4	2	1	1	2
455	Kiburu RC	SHP		1	2		2	1	1	IV2	9.4	9.6	0.3	2	2	1	1	1	1	10	1	3	2.8	3.6	1	1	1	4	1	2	1
456	Pori Kopiago	SHP	Kake Ina	1	2		2	1	2	I2	9.4	10.2	2.0	0	4	1	2	1	5	10	2	2	3.2	3.7	1	1	2	4	1	3	1
457	Piwa	SHP	Kuli	1	2		2	3	2	I1	9.0	11.0	1.8	0	1	6	2	1	1	232	1	2	2.9	3.1	1	1	4	3	1	2	1
458	Pombera	SHP	Kunjup	1	2		1	1	2	I1	9.6	9.3	1.0	0	2	1	1	1	1	10	3	2	3.3	4.0	1	1	1	2	1	1	1
459	Lane Kopiago	SHP	Paluaina	1	2		2	5	2	I1	11.0	12.7	0.7	0	1	4	3	2	1	10	1	3	4.1	3.9	1	4	2	4	2	2	1
460	Karel	SHP	Koneme	1	2		2	3	1	IV2	9.5	10.1	0.8	2	5	1	1	2	5	10	3	2	3.3	4.4	1	3	2	4	2	1	1
461	Aron Kopiago	SHP	Wanimnu	1	2		2	1	2	I1	9.6	10.4	1.5	0	4	2	2	1	5	10	3	2	4.1	3.7	1	3	2	4	2	1	1
462	Pori Kopiago	SHP	Marpepo	1	2		3	1	3	I1	8.8	9.0	1.4	0	2	6	1	1	3	232	2	2	3.2	3.8	1	1	1	4	2	2	1
463	Karel	SHP	Mup	1	2		2	1	2	II3	8.0	9.8	0.9	1	2	4	2	1	1	10	3	2	3.5	3.4	1	1	1	4	1	2	1
464	Nembi Plateau	SHP	Asor	1	2		2	1	0	III2	11.1	13.4	2.1	2	3	4	3	1	7	10	1		3.3	3.3							
465	Mendi	SHP	Koneme	1	2		2	3	0	IV2	9.0	8.7	0.8	2	5	1	2	2	5	10	1	2			1	2	2	4	1	2	1
466	Kiburu RC	SHP		1	2		3	1	1	I1	11.0	11.9	0.2	0	3	1	3	1	5	10	0										
467	Duna	SHP	Name Kene	1	2		2	2	3	IV2	12.2	14.8	0.4	2	4	7	3	1	7	10	1	2			1	2	4	4	2	2	2
468	Ariu Kopiago	SHP	Aliyawade Ina	1	2		3	3	0	III	10.2	10.7	0.1	1	4	1	2	2	3	10	1	2			1	1	2	4	1	2	1
469	Karel	SHP		1	2		2	1	2	IV3	10.4	11.6	0.9	2	2	1	2	1	1	10	2	3	3.4	3.5	1	1	2	4	2	3	2
470	Pori Kopiago	SHP	Limala Ina	1	2		2	2	1	I1	13.3	15.2	1.5	0	3	4	3	1	5	20	2	3	3.5	4.0	1	1	2	4	2	3	2
471	Kiburu RC	SHP		1	2		2	1	2	I1	8.7	10.3	0.8	0	3	1	2	1	8	10	0										
472	Kiburu RC	SHP		1	2		2	1	3	I1	10.2	11.1	1.2	0	1	1	2	1	1	10	1										
473	Samarai	SHP	Hono (Banana)	1	2		2	1	0	II3	8.9	9.2	1.0	1	1	1	2	1	1	10	1		3.2	3.5							
474	Karel	SHP	Porenong H	1	2		3	3	0	II2	10.5	10.5	0.9	1	4	6	2	1	1	10	3	3	3.7	4.2	1	1	4	4	1	1	1
475	Nembi Plateau	SHP	Pelintene	1	2		2	4	0	III3	8.4	9.4	0.5	2	2	7	1	2	2	10	3	2	3.5	4.1	1	4	2	4	1	3	1
476	Lane Kopiago	SHP	Kambe	1	2		2	3	2	III	12.9	12.7	0.5	1	5	6	3	1	4	20	2	2	3.5	4.3	1	2	2	4	2	1	1
477	Piwa	SHP	Mamme	1	2		2	2	1	II	8.3	11.1	1.8	0	3	2	3	1	3	30	1	2	3.3	3.5	1	1	2	4	1	3	1
478	Piwa	SHP	Pebi	1	2		2	3	1	II2	9.3	11.3	2.1	2	2	4	2	2	5	10	1	2			1	1	2	4	1	2	1
479	Karel	SHP		1	2		2	2	2	V3	9.9	12.4	1.4	3	3	4	1	1	1	10	2	2	2.8	3.7	1	1	2	4	1	1	1
480	Arou Kopiago	SHP	Tai Ina	1	2		2	1	2	II	9.1	9.9	2.3	0	2	1	2	1	5	10	2	2	3.1	3.7	1	1	2	4	1	2	1
481	Piwa	SHP	Tamma Hina	1	2		2	5	0	I2	11.1	13.1	1.2	0	1	4	3	2	3	232	1	3			1	4	3	4	1	2	1
482	Piwa	SHP	Kembu	1	2		2	1	2	I1	9.3	11.4	2.0	0	3	1	2	1	5	10	3	2	3.6	4.3	1	1	3	4	1	2	1
483	Pori Kopiago	SHP	Bauwa Ina	1	2		1	1	2	III2	10.5	11.8	1.7	2	2	2	2	1	6	10	3	2	3.6	4.0	1	2	2	4	2	2	1
484	Hebaguali	SHP	Helagaul	1	2		2	1	3	III2	10.5	13.0	1.6	2	2	1	2	1	1	10	2	2	3.5	4.4	1	1	3	4	1	3	1
485	Kiburu RC	SHP		1	2		2	3	2	I1	8.4	8.1	0.4	0	5	7	2	2	1	10	3	2	3.4	3.2	1	2	2	4	1	2	1
486	Piwa	SHP	Tele	1	2		2	1	0	IV3	10.0	13.6	1.1	2	3	4	2	1	1	10	2	2	3.3	4.1	1	4	5	4	1	2	1
487	Tulum	SHP	Sororol	1	2		2	1	0	III2	9.5	9.1	0.3	2	1	1	2	1	1	10	1	2	3.0	3.6	1	1	3	4	1	1	1
488	Kiburu RC	SHP		1	2		2	3	1	I1	9.7	8.9	1.2	0	4	1	2	1	5	10	2	2	3.9	4.7	1	2	2	4	1	1	1
489	Kiburu RC	SHP		1	2		2	1	2	I1	9.3	8.9	1.0	0	3	2	2	1	1	10	1	2	3.4	4.0	1	1	3	4	2	2	1
490	Nembi Plateau	SHP		1	2		2	3	2	I1	8.2	9.3	0.9	0	3	6	1	2	5	20	3	2	3.6	5.0	1	2	2	4	1	1	1
491	Lane Kopiago	SHP	Kentila	1	2		2	5	0	I1	12.2	12.2	1.0	0	1	4	3	3	5	331	1	3			1	1	2	4	2	2	1
492	Tulum	SHP	Pondomini	1	2		2	1	0	III	8.6	9.0	1.1	1	3	2	2	1	5	10	3	2	3.8	3.9	1	2	4	4	1	2	1
493	Kiburu RC	SHP		1	2		3	3	2	I1	9.7	12.6	1.8	0	2	1	2	1	6	10	0										

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
494	Tulum	SHP	Soii	1	2		2	3	1	I12	10.7	11.8	0.4	2	4	1	2	1	1	10	2	2	3.4	3.6	1	1	1	4	1	1	1
495	Tulum	SHP	Mogosili	1	2		2	1	2	V3	8.8	10.7	0.5	3	2	2	2	1	5	10	2	2	2.8	3.4	1	1	4	4	1	1	1
496	Timpia	SHP		1	2		3	4	2	I1	9.7	10.7	0.9	0	3	4	2	2	5	10	3	2	3.3	4.4	1	2	2	4	1	1	1
497	Enep	SHP	Hagenaik	1	2		2	1	3	I1	9.4	10.8	1.4	0	1	1	2	1	1	10	2	2	3.5	4.6	1	1	4	4	1	1	1
498	Tulum	SHP	Tul	1	2		2	2	2	I113	10.4	12.1	1.3	2	4	4	2		1	10	1	2	3.1	3.5	1	1	4	4	1	1	1
499	Tulum	SHP	Dickdick	1	2		2	1	3	I13	9.4	11.4	2.1	1	3	3	2		6	20	1										
500	Piwa	SHP	Parabia	1	2		2	1	0	I1	8.5	9.9	1.2	0	3	2	2	1	7	10	3	2	3.6	4.0	1	2	2	4	1	2	1
501	Karel	SHP	Seli	1	2		2	1	1	I112	10.1	11.0	0.7	2	4	1	1	1	1	10	3	2	3.8	4.6	1	1	1	4	1	1	1
502	Piwa	SHP	Siguli	1	2		2	1	2	I1	7.6	8.2	1.5	0	3	1	1	1	5	10	3	3	3.5	4.1	1	4	4	4	1	2	1
503	Arou Kopiago	SHP	Taria Ina	1	2		3	3	2	I2	10.1	11.0	2.0	0	2	6	1	2	8	10	2	2	3.1	3.6	1	1	4	4	1	2	1
504	Nembi Plateau	SHP	Balus	1	2		2	1	1	IV2	8.9	8.9	0.4	2	4	1	1	1	1	10	3	5	3.1	4.2	1	1	3	4	1	2	1
505	Kiburu RC	SHP		1	2		2	1	1	I1	9.2	9.8	1.4	0	2	1	2	1	6	10	2	2	2.9	3.8	1	1	4	4	1	1	1
506		SHP	Sekala	1	2		2	1	1	I1	9.5	11.2	2.1	0	3	6	2	1	1	10	1		2.5	3.1							
507	Kiburu RC	SHP	Merikan	1	2		2	2	2	I1	8.2	9.3	1.3	0	2	7	2	1	1	10	3	2	2.6	4.3	1	2	4	4	1	1	1
508	Kiburu RC	SHP		1	2		2	1	2	I112	10.6	13.2	1.6	2	1	4	2	1	1	10	1		3.0	4.1							
509	Piwa	SHP	Po	1	2		2	1	2	I12	9.2	9.8	1.5	1	4	2	2	1	5	10	1	2	3.0	3.6	1	2	1	4	1	2	1
510	Tulum	SHP	Wep	1	2		3	2	1	I11	8.2	10.6	1.8	2	2	7	2	1	3	30	3	2	3.9	4.0	1	4	2	4	1	3	1
511	Nembi Plateau	SHP	Kiko	1	2		2	1	0	I2	9.1	10.2	1.4	0	3	4	2	1	1	10	3	2	3.5	3.9	1	1	2	4	1	3	1
512	Kiburu RC	SHP	Wan-Mun	1	2		2	3	1	I1	11.8	11.0	1.3	0	5	1	3	2	5	10	2	3	3.3	4.5	1	3	2	4	2	2	1
513	Kiburu RC	SHP		1	2		2	1	2	IV2	10.2	11.4	1.1	2	1	2	2	1	1	10	2	2	3.3	4.2	1	1	1	4	1	1	1
514	Kiburu RC	SHP		1	2		2	3	1	I1	8.7	9.4	2.7	0	3	2	1	2	1	10	2	2	3.4	4.4	1	2	2	4	1	1	1
515	Dune	SHP	Tambeaa Ina	1	2		2	1	0	I12	9.1	10.9	1.7	1	3	2	2	1	4	10	2	2	3.7	4.0	1	1	2	4	1	2	1
516	Pori Kopiago	SHP	Kuli Ina	1	2		2	1	1	I1	8.8	9.6	1.4	0	2	2	1	1	2	231	1		2.4	3.2							
517	Karel	SHP	Takion	1	2		2	1	0	I11	9.9	7.8	0.5	1	1	1	1	1	1	10	2	2	3.2	3.8	1	1	4	4	1	1	1
518	Pori Kopiago	SHP	Eka	1	2		2	5	2	I1	10.0	11.3	1.6	0	3	4	3	2		10	1	3	3.4	3.9	2	2	4	4	1	2	1
519	Karel	SHP	Marshall	1	2		2	2	2	IV2	9.9	11.8	2.1	2	3	7	2	1	1	10	3	2	3.7	4.3	1	2	2	4	1	2	1
520	Duna	SHP	Kene Thlikaina	1	2		2	5	1	I2	12.3	12.8	1.3	0	1	7	3	3	1	232	1		3.3	3.6							
521	Kiburu RC	SHP		1	2		2	1	0	I1	8.1	7.6	1.0	0	1	2	2	1	1	10	0										
522	Karel	SHP	Irikal	1	2		2	1	1	IV2	10.3	10.0	1.3	2	4	1	2	1	1	10	3	2	3.3	3.9	1	1	2	4	1	1	1
523	Komea	SHP	Balus	1	2		2	4	1	I1	8.1	8.9	1.2	0	4	7	2	1	7	20	2	2	3.5	3.2	1	1	3	4	1	2	1
524	Nembi Plateau	SHP	Peripan	1	2		2	3	2	IV2	7.7	8.4	0.7	2	3	1	2	2	5	10	2	2	3.4	3.2	1	2	1	4	1	2	1
525	Piwa	SHP	Piju	1	2		2	2	1	IV2	7.4	8.0	1.3	2	3	7	1	1	4	10	1	2	3.2	3.5	1	4	2	4	1	2	1
526	Kiburu RC	SHP		1	2		1	1	0	IV3	11.8	12.2	1.2	2	2	1	2	1	2	10	1		3.0	4.2							
527	Tulum	SHP	Cayman	1	2		2	2	2	I3	12.6	12.7	1.0	0	1	4	2	1	1	10	2	2	3.3	4.0	1	1	2	4	1	1	1
528	Kiburu RC	SHP		1	2		2	4	2	I1	8.8	9.8	1.3	0	3	7	3	2	5	10	1	3			1	1	2	4	1	2	2
529	Kiburu RC	SHP	Ma'alua	1	2		2	1	2	IV3	9.2	8.8	0.7	2	2	1	2	1	1	10	1										
530	Tulum	SHP	Sibul Sotekel	1	2		1	2	2	V3	10.8	13.2	1.4	3	4	6	1	1	1	10	2	2	3.1	4.0	1	4	5	4	1	1	1
531	Pori Kopiago	SHP	Takura Ina	1	2		2	1	1	I112	9.6	10.2	1.0	2	2	1	2	1	1	10	2	2	3.3	3.5	1	1	2	4	1	2	1
532	Arou Kopiago	SHP	Pepo Ina	1	2		2	3	3	I1	9.6	9.6	1.8	0	4	6	1	1	3	231	2	2	3.2	4.0	1	1	4	4	2	2	1
533	Kiburu RC	SHP		1	2		2	1	1	V3	11.1	13.7	0.6	3	2	2	2	1	5	10	2	2	2.8	3.5	1	1	2	4	1	1	1
534	Arou Kopiago	SHP	Aiyuku Ina	1	2		3	3	1	I12	13.0	14.4	1.7	1	2	7	3	2	5	10	2	2	3.4	3.6	1	2	2	4	2	3	1
535	Mpangia	SHP	Kegapila	1	2		3	1	2	I1	11.1	12.7	2.0	0	3	1	2	1	4	10	2	2	2.8	3.4	1	1	4	1	1	2	1
536	Karel	SHP	Kana	1	2		2	4	1	I2	9.8	11.3	1.2	0	2	7	3	1	5	20	2	2	3.4	3.3	1	1	3	4	1	2	1
537	Kiburu RC	SHP	Naveto	1	2		2	4	2	IV2	9.7	10.3	0.0	2	2	6	2	1	6	10	3	2	3.6	3.9	1	1	2	4	1	2	1
538	Komea	SHP	Kariap Hake	1	2		2	2	1	IV2	10.5	10.0	1.0	2	2	4	2	1	1	10	1	2	3.4	3.6	1	1	2	4	1	1	1
539	Piwa	SHP	Piyawe	1	2		2	2	2	IV2	9.0	10.8	1.5	2	3	7	2	1	4	10	1		3.4	3.7							
540	Kiburu RC	SHP		1	2		2	1	1	IV3	8.4	8.0	0.3	2	2	1	1	1	1	10	3	3	3.0	3.6	1	1	4	4	1	2	1
541	Karel	SHP	Mena Kala	1	2		2	1	1	IV2	11.6	10.6	1.3	2	3	1	2	1	1	10	2	2	3.5	3.9	1	1	2	4	1	1	1
542	Kiburu RC	SHP	Tul	1	2		2	1	2	I112	10.7	14.0	1.5	2	2	1	2	1	1	10	3	2	3.2	3.5	1	1	3	4	1	3	1
543	Piwa	SHP	Mogaija	1	2		3	3	1	I13	9.5	10.0	2.1	1	5	6	1	2	1	241	2	3	3.1	3.9	1	2	2	4	1	2	1
544	Komea	SHP	Papel	1	2		2	1	3	I1	10.9	12.2	0.9	0	3	1	2	1	6	10	2	3	3.1	3.5	1	1	4	4	1	2	1
545	Kiburu C	SHP	Surenta	1	2		2	2	2	V3	10.2	13.1	1.4	3	3	6	2	1	1	10	1	2	3.0	3.6	1	1	2	4	1	2	1
546	Pombera	SHP	Goroka	1	2		1	1	1	I112	10.8	12.4	0.8	2	4	1	2	1	1	10	1	2	3.4	3.9	1	1	1	4	1	1	1
547	Piwa	SHP	Nandijame	1	2		3	1	2	I1	10.7	12.1	3.2	0	2	1	2	1	6	10	3	2	2.8	3.7	1	4	4	1	1	2	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
548	Kiburu RC	SHP	Kariap	1	2		2	2	0	IV2	8.0	8.9	0.8	2	2	6	1	1	1	10	3	2	3.7	3.3	1	1	2	4	1	1	1
549	Mendi	SHP	Kome'ea	1	2		3	3	2	I1	10.7	11.7	2.3	0	2	6	2	1	5	10	3	2	2.4	3.0	1	2	3	4	1	2	1
550	Pangia	SHP	Toe	1	2		2	4	0	III3	9.6	10.3	1.2	2	4	7	3	2	3	10	2	2	3.4	3.2	1	1	2	4	1	1	1
551	Kiburu RC	SHP		1	2		2	1	2	I1	9.1	8.9	1.7	0	2	1	2	1	1	10	2	2	3.2	3.5	1	1	4	4	1	1	1
552	Enep	SHP	Takeria	1	2		3	1	3	I1	10.2	11.8	1.6	0	2	6	2	1	8	10	2	2	2.8	3.6	1	1	4	4	1	2	1
553	Enep	SHP	Minimb	1	2		3	1	1	III2	9.8	11.7	1.2	2	4	6	2	1	1	10	2	2	3.2	3.6	1	1	2	4	1	2	1
554	Kiburu RC	SHP		1	2		1	2	2	I1	6.9	7.5	1.4	0	4	7	1	1	1	10	0										
555	Pari Kopiago	SHP	Tan Ina	1	2		2	1	1	II2	8.3	9.6	0.7	1	4	2	1	1	5	10	3	2	3.3	3.4	1	2	2	4	2	3	1
556	Nembi Plateau	SHP	Sokol	1	2		1	5	3	I3	11.5	13.9	1.6	0	2	4	3	2	1	231	0										
557	Komea	SHP	Seka Kake	1	2		2	1	2	IV2	9.0	10.1	1.1	2	2	1	2	1	4	10	1		3.5	3.8							
558	Kiburu RC	SHP		1	2		1	1	3	I1	7.7	7.2	0.7	0	2	2	1	1	6	10	1										
559	Komea	SHP	Wannega	1	2		1	3	0	II2	8.9	10.5	1.6	1	2	7	2	2	5	10	1	3	2.7	3.6	1	4	2	4	1	2	1
560	Lane Kopiage	SHP	Balu Ina	1	2		2	1	3	III2	11.9	14.0	2.6	2	2	1	3	1	6	10	3	3	3.5	3.7	1	1	2	4	2	2	1
561	Kiburu RC	SHP		1	2		2	3	2	II2	9.0	10.8	2.0	1	3	6	2	1	5	10	1	2	2.5	3.1	1	1	4	4	1	3	1
562	Piwa	SHP	Huli Liliau	1	2		2	1	2	IV2	9.5	9.8	0.8	2	4	1	2	1	1	10	2	3	2.8	3.7	1	1	2	4	1	2	1
563	Kiburu RC	SHP		1	2		1	1	1	I2	7.3	8.1	1.2	0	4	7	1	1	1	10	0										
564	Karel	SHP	Semala (Momak)	1	2		2	1	1	I1	10.2	10.1	0.4	0	4	1	2	1	1	10	2	2	3.3	3.9	1	1	3	4	1	2	1
565	Kiburu RC	SHP	Tumun	1	2		2	3	2	I1	9.5	10.3	1.0	0	5	1	2	2	6	10	3	3	3.6	3.7	1	3	2	4	2	2	1
566	Enep	SHP	Lagapin	1	2		3	2	1	I1	8.2	9.2	1.9	0	2	2	3	1	6	10	3	2	2.9	3.3	1	1	1	4	1	2	1
567	Samarai	SHP	Hono (Banana)	1	2		2	3	2	III	11.2	10.6	0.6	1	5	6	2	2	1	20	3	3	3.4	3.9	1	3	2	4	2	2	1
568	Piwa	SHP	Siki	1	2		2	2	1	IV3	10.9	12.6	0.9	2	3	4	2	1	1	10	2	2	3.0	3.6	1	4	2	4	1	2	1
569	Aremoroma	Simbu	Bomai	1	2		2	3	1	IV2	12.0	12.8	1.2	2	2	2	3	1	6	10	1	2	2.8	3.8	1	1	2	4	1	1	1
570	Sipembe Mambuno	Simbu	Onggan	1	2		2	3	2	V3	12.2	16.3	1.9	3	3	6	2	2	1	10	2	3	3.4	4.4	1	2	3	4	1	2	1
571	Sipembe Mambuno	Simbu	Taindambo	1	2		2	3	2	I1	8.9	9.2	0.9	0	2	1	2	1	1	10	2	2	3.1	3.7	1	1	3	4	1	2	1
572	Sipembe Mambuno	Simbu	Hagenambu	1	2		2	1	1	IV2	9.0	8.8	0.2	2	4	1	1	1	1	10	3	5	2.9	3.5	1	1	1	4	1	2	1
573	Sipembe Mambuno	Simbu	Daccambo	1	2		2	1	3	I1	8.8	10.0	2.0	0	4	6	2	1	6	10	2		3.0	3.6							
574	Sipembe Mambuno	Simbu	Dumamb	1	2		2	1	2	III3	11.2	12.8	0.3	2	2	1	2	1	6	10	2	2	3.1	3.8	1	1	5	4	1	2	1
575	Bunbugl	Simbu	Arungo	1	2		2	1	2	III2	9.0	11.3	1.0	2	4	1	2	1	6	10	2	2	3.6	4.2	1	1	2	4	1	3	1
576	Duguma	Simbu	Mondambo	1	2		2	1	2	I1	10.3	10.8	1.8	0	2	1	2	1	1	10	2	2	3.8	2.7	1	1	2	4	1	2	1
577	Ki	Simbu	Nilkugma Red	1	2		1	1	1	I1	11.2	11.8	1.1	0	4	1	3	1	5	20	2	2	3.5	3.7	1	1	2	4	1	3	1
578	Sipembe Mambuno	Simbu	Gaiambo	1	2		2	1	1	III	8.1	8.8	0.9	1	2	4	1	1	6	10	2	2	3.1	3.7	1	1	2	4	1	3	1
579	Kamtaipene	Simbu	Karagambo	1	2		3	1	3	III3	12.1	13.1	2.7	2	1	1	3	1	1	10	3	2	2.8	3.6	1	4	3	4	1	2	1
580	Gewa	Simbu	Bomambo	1	2		2	1	2	III	11.5	13.6	1.7	1	2	2	3	1	1	10	1	2	3.3	4.0	1	1	2	4	1	2	1
581	Kondiu	Simbu	Nipmam Red	1	2		1	1	2	I1	11.3	11.2	0.4	0	2	4	2	1	5	10	3	2	3.7	3.7	1	2	2	4	2	2	1
582	Kondium	Simbu	Nipmam White	1	2		1	1	2	I1	10.5	11.8	1.3	0	2	4	3	1	1	10	1										
583	Dirigingua	Simbu	Moronggai	1	2		2	1	2	I2	9.3	11.5	1.9	0	2	1	3	1	1	10	1	2	3.5	2.9	1	1	2	4	1	2	1
584	Korowa	Simbu	Dola	1	2		3	1	2	III2	11.4	12.3	2.8	2	1	1	3	1	1	10	1	2	3.0	4.0	1	1	4	4	1	2	1
585	Diringingua	Simbu	Kumnussi	1	2		2	3	2	IV2	12.4	12.9	1.2	2	3	4	3	2	1	10	1	2			1	4	2	4	1	2	1
586	Ulu	Simbu	Sainamb Red	1	2		2	4	0	IV2	11.4	13.6	1.3	2	2	7	3	2	1	232	1		3.4	3.8							
587	Ki	Simbu	Duinimamb	1	2		1	1	2	I1	9.8	8.9	0.3	0	3	1	2	1	1	10	2	2			1	2	2	4	1	3	1
588	Yuruwa	Simbu	Nilabal	1	2		1	1	1	I1	10.3	9.2	0.6	0	2	4	3	1	5	10	2	2	3.6	4.0	1	1	2	4	2	2	1
589	Kabal Kanama	Simbu	Simbanggi	1	2		2	2	1	IV3	9.7	12.2	1.0	2	3	4	2	1	1	10	1	2	3.0	3.6	1	1	5	4	1	2	1
590	Ki	Simbu	Kamambu	1	2		2	3	1	II2	8.2	9.5	1.8	1	3	2	2	1	1	10	1		2.8	3.8							
591	Koronigl	Simbu	Warri	1	2		2	5	1	I1	10.9	11.0	1.3	0	2	7	2	3	5	20	1	2	3.7	3.6	1	3	2	4	2	1	1
592	Sipembe Mambuno	Simbu	From Ramu	1	2		2	3	2	I1	11.5	13.6	1.0	0	3	4	3	2	5	10	3	2	3.3	4.1	1	3	2	4	2	1	1
593	Bwakamb	Simbu	Warriambo	1	2		1	5	2	I3	12.6	14.8	1.4	0	2	4	3	2	1	231	0										
594	Dimbi	Simbu	Nondugimam	1	2		2	1	1	IV3	12.2	14.1	1.1	2	2	1	3	1	5	10	1	2	3.5	3.5	1	1	2	4	1	1	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
595	Dekornigl	Simbu	Kupumam	1	2	1	1	1	IV3	11.2	11.5	0.9	2	2	1	2	1	6	10	1	2	3.7	3.7	1	1	2	4	1	1	1
596	Korowa	Simbu	Gurukev	1	2	2	3	1	II	8.2	9.2	1.7	0	4	1	1	1	5	10	3	2	3.4	4.3	1	1	4	4	1	3	1
597	Korowa	Simbu	Dola	1	2	2	1	1	II	12.7	12.5	0.1	0	1	1	2	1	1	10	3	2	3.9	4.4	1	1	2	4	2	2	1
598	Kobal Kanama	Simbu	Urauranggi	1	2	1	1	0	IV3	11.5	10.5	0.7	2	2	1	2	1	6	10	2	2	3.5	3.4	1	1	2	4	1	2	1
599	Aremorama	Simbu	Nilkugambo	1	2	1	3	0	V2	13.2	13.1	0.4	3	3	2	2	1	1	10	1		2.9	3.6							
600	Bwakamb	Simbu	Krukanambu	1	2	2	3	1	IV2	11.8	10.3	1.1	2	5	6	1	2	1	10	3	5	3.1	4.5	1	2	2	4	1	1	2
601	Sipembe Mambuno	Simbu	Yomboambu	1	2	2	1	1	II	11.0	13.0	2.3	0	2	1	2	1	5	10	1	2	3.4	3.9	1	2	2	4	1	3	1
602	Torre Mambuno	Simbu	Didimanwai	1	2	2	3	1	III2	15.8	15.2	1.2	1	2	2	3	2	5	10	2	3	4.2	4.4	1	4	2	4	1	3	1
603	Dirigingua	Simbu	Komaggai	1	2	2	1	1	III	8.0	8.3	1.2	1	2	1	2	1	1	10	3	2	3.4	4.4	1	1	2	4	1	1	1
604	Dirigingua	Simbu		1	2	2	2	2	IV2	12.7	15.6	1.5	2	3	7	2	1	5	10	0										
605	Ki	Simbu	Bomai Kruo	1	2	1	1	0	IIII3	10.0	10.0	0.7	2	2	1	2	1	5	10	2	2	3.6	3.7	1	1	2	4	1	2	1
606	Gewa	Simbu	Bremenu	1	2	2	1	0	IIII3	10.6	10.6	0.6	2	2	1	2	1	6	10	1	2	3.6	3.8	1	1	2	4	1	2	1
607	Gewa	Simbu		1	2	2	1	2	II	11.3	10.7	0.4	0	1	1	2	1	1	10	1	2	3.6	4.2	1	1	2	4	1	2	1
608	Korowa	Simbu		1	2	2	2	0	II	11.5	12.6	0.3	0	2	4	2	1	1	141	2	2	3.5	4.0	1	1	2	4	2	3	1
609	Gewa	Simbu	Nilkugu	1	2	2	1	2	II	10.6	10.9	0.7	0	4	1	2	1	7	20	3	2	3.6	3.7	1	1	3	4	1	2	1
610	Sipembe Mambuno	Simbu	Taindambo	1	2	2	1	3	III	8.7	9.2	0.7	1	2	1	2	1	1	10	2	2	3.2	3.8	1	4	3	4	1	2	1
611	Yuruwa	Simbu	Kruabal	1	2	2	1	0	IV3	10.6	11.1	0.6	2	2	1	2	1	7	10	2	2	3.6	3.8	1	1	2	4	1	2	1
612	Bomkane	Simbu	Diniambo	1	2	2	1	2	IV2	9.9	9.5	0.0	2	4	6	1	1	5	10	3	3	3.0	3.7	1	1	2	4	1	1	1
613	Sipembe Mambuno	Simbu	Parakuambo	1	2	2	1	3	II	9.7	11.7	2.0	0	2	4	2	1	5	10	2	2	3.2	3.5	1	1	1	4	1	2	1
614			Snamn	1	2	2	1	3	II	10.8	12.2	2.5	0	3	6	2	1	5	10	1		2.8	3.6							
615	Sipembe Mambuno	Simbu	Arango	1	2	2	1	2	II2	8.3	9.6	1.1	1	2	2	2	1	5	10	2	2	3.0	3.4	1	1	2	4	1	2	1
616	Sipembe Mambuno	Simbu	Gonime	1	2	2	3	0	IV2	9.1	9.4	0.7	2	5	1	1	2	5	10	1	2	2.9	3.9	1	3	2	4	1	2	1
617	Bomkane	Simbu	Kumurusu	1	2	1	1	2	II	7.5	8.7	1.4	0	2	1	2	1	5	10	2	2	3.2	3.8	1	1	2	4	1	2	1
618	Bomkane	Simbu	Planggidemambo	1	2	2	3	2	II	9.9	10.9	1.0	0	2	4	3	1	5	10	1		3.3	3.8							
619	Iruglnigle	Simbu	Kariglam	1	2	3	1	3	III2	10.9	11.9	2.4	2	1	1	2	1	1	10	3	2	3.0	3.9	1	1	4	4	1	2	1
620	Korowa	Simbu	Ombu	1	2	2	1	1	III2	12.5	13.9	1.1	2	3	1	3	1	5	10	2	2	3.2	4.0	1	1	2	4	1	1	1
621	Ki	Simbu	Wan-Mun Red	1	2	2	3	2	II	11.8	10.2	1.0	0	5	1	2	2	6	20	1	2			1	3	2	4	2	2	1
622	Ki	Simbu	Wan-Mun Yellow	1	2	2	3	1	II	11.0	10.7	0.8	0	5	1	2	2	2	10	2	2	3.2	4.1	1	2	2	4	1	2	1
623	Korowa	Simbu	Granggol	1	2	2	4	2	V3	11.4	14.4	1.1	3	3	7	2	2	7	10	3	2	3.4	4.4	1	2	3	4	1	2	1
624	Dirigingua	Simbu	Ogangigol	1	2	2	4	2	V3	11.2	14.2	1.0	3	3	7	2	2	7	10	2	2	3.4	4.1	1	2	3	4	1	2	1
625	Dirigingua	Simbu	Oganggaipegge	1	2	2	2	1	IV3	10.5	12.7	1.0	2	4	7	2	1	1	10	2	2	3.1	4.0	1	4	2	4	1	2	1
626	Milegumanule	Simbu	Nambwanggi	1	2	3	3	2	III2	10.4	11.1	1.1	2	3	6	2	1	5	10	3	2	3.6	4.2	1	2	4	4	2	3	1
627	Aremarama	Simbu	Galimbol	1	2	1	2	2	IV3	10.6	11.3	0.4	2	3	7	2	1	7	10	0										
628	Ulu	Simbu	Sainamb White	1	2	1	1	1	IV3	11.7	13.2	1.1	2	4	1	2	1	1	10	1	2	3.8	4.1	1	1	2	4	1	3	1
629	Aremoroma	Simbu	Mambol	1	2	1	1	0	IIII3	11.4	12.5	0.6	2	2	1	7	1	7	10	1	2	3.8	4.1	1	1	2	4	1	1	1
630	Bolabol	Simbu	Morabal	1	2	2	3	0	II	10.9	11.8	1.4	0	4	1	2	2	5	10	1	2			1	2	2		1	1	1
631	Eglu	Simbu	Moronggi	1	2	2	1	1	II	9.6	11.1	1.9	0	4	1	2	1	1	10	1		2.7	3.2							
632	Kobalkanama	Simbu	Konomanggi	1	2	1	2	0	III2	11.0	11.5	1.6	1	1	3	2	1	1	10	1	2	2.9	3.9	1	1	2	4	1	2	1
633	Yuruwa	Simbu	Nilkulabal	1	2	2	1	1	II	11.2	11.6	0.9	0	2	1	3	1	5	10	3	2	3.4	3.7	1	1	2	4	1	2	1
634	Eglu	Simbu	Kaukau	1	2	2	4	1	IV3	10.6	12.7	0.9	2	3	6	2	1	1	10	2	2	2.6	3.7	1	4	2	4	1	1	1
635	Omkalai	Simbu	Tripelanggi	1	2	1	1	1	II	7.7	8.2	0.8	0	2	1	1	1	5	10	2		3.6	4.3							
636			Aken	1	2	2	1	2	II3	8.7	9.0	1.2	1	2	2	1	1	1	10	2	2	3.0	3.7	1	1	2	4	1	2	1
637	Dirigingua	Simbu	Nilkuluggi	1	2	2	1	0	II	8.6	10.0	1.6	0	2	1	2	1	1	10	2	2	3.1	3.7	1	1	2	4	2	2	1
638	Omkorai	Simbu	Moroggi	1	2	2	4	2	V2	11.0	12.3	0.7	3	3	6	2	1	7	10	1										
639	Milegumanule	Simbu	Boggiggi	1	2	1	1	1	II	8.4	8.4	0.3	0	2	4	2	1	5	10	2	2	3.7	4.4	1	1	2	4	2	2	1
640	Konaba	Simbu	Warri	1	2	2	3	0	II	12.9	14.7	0.2	0	1	4	3	2	1	232	0										
641	Konaba	Simbu	Gerrowaggi	1	2	2	3	1	IV3	9.7	10.2	0.9	2	4	7	2	2	1	10	3	2	3.1	3.5	1	2	4	4	1	2	1
642	Konaba	Simbu	Kaniggi	1	2	2	3	1	IV2	10.5	10.4	1.0	2	2	2	2	1	5	10	1		2.9	3.9							
643	Konaba	Simbu	Sinabaggi	1	2	2	4	1	V3	12.1	15.2	1.5	3	3	7	2	1	7	10	3	2	3.2	4.0	1	2	3	4	1	2	1

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
644	Konaba	Simbu	Dowaggi	1	2		2	3	0	II	9.3	9.5	1.3	0	4	6	1	1	4	10	1	2	3.1	3.7	1	4	4	1	1	1	2
645	Konaba	Simbu	Onggiba	1	2		2	3	1	IV3	11.8	13.8	1.2	2	3	4	2	2	7	10	3	3	3.3	4.4	1	2	4	4	1	2	1
646	Konaba	Simbu	Mugaggi	1	2		1	1	2	II	7.1	6.9	0.7	0	4	1	1	1	1	10	2	2	2.5	2.7	1	1	2	4	1	2	1
647	Ganbugl	Simbu	Sikikruo	1	2		2	1	2	IV3	10.8	12.4	0.7	2	2	2	2	1	1	10	1		3.1	3.8							
648	Yuruwa	Simbu	Kalkebalabal	1	2		2	3	1	IV3	10.8	12.4	1.1	2	3	6	2	1	1	10	2	2	3.0	3.6	2	1	2	4	1	1	1
649	Bolabol	Simbu	Nurilmum	1	2		2	1	0	III3	11.7	12.3	0.7	2	2	1	3	1	1	10	1	2	3.5	3.7	1	1	2	4	1	2	1
650	Bolabol	Simbu	Diriabal	1	2		2	1	2	III3	12.1	9.7	-.3	2	3	1	2	1	6	10	1	2	2.8	3.8	1	1	4	3	1	1	2
651	Kobalkanama	Simbu	Moromaggi	1	2		1	1	0	IV2	12.4	11.7	0.5	2	1	1	2	1	1	10	1										
652	Kabalkamana	Simbu	Angamolabal	1	2		2	4	1	IV2	10.9	11.2	-.2	2	3	7	2	2	7	10	1		3.2	3.7							
653	Sipembe Mambuno	Simbu	Sibugambo	1	2		2	4	1	IV2	12.9	12.6	0.9	2	3	7	2	2	1	10	1	2	3.4	3.8	1	2	2	4	1	2	2
654	Kamtaipene	Simbu	Mononggoi	1	2		2	3	1	II2	8.5	10.4	1.1	1	3	1	1	2	5	10	3	2	3.5	3.7	1	2	2	4	1	3	1
655	Bwakamb	Simbu	Gamarmam	1	2		2	1	0	III2	10.0	11.0	1.5	2	3	1	2	1	5	10	2	2	3.0	3.4	1	1	2	4	1	3	1
656	Kurumul	Simbu	Kotnamam	1	2		1	1	0	III3	10.6	10.4	0.5	2	2	1	2	1	7	10	2	2	3.6	3.7	1	1	2	4	1	2	1
657	Bomkane	Simbu	Ambgamb	1	2		2	1	2	II	9.5	10.6	0.6	0	4	1	2	1	7	10	3	2	3.2	4.2	1	1	2	1	2	2	1
658			TN MWN	1	2		2	1	0	II	8.8	10.8	1.3	0	2	1	2	1	1	10	2	2	2.9	3.7	1	1	2	4	1	2	1
659	Digankrai	Simbu	Kurumbanggi	1	2		1	1	0	IV3	11.1	10.9	0.5	2	2	1	2	1	7	10	2	2	3.5	3.8	1	1	2	4	1	2	1
660	Omkolai	Simbu	Kaniggi	1	2		2	1	2	II	10.6	10.2	0.6	0	4	1	2	1	1	10	1	2			1	1	2	4	1	1	1
661	Omkorai	Simbu	Tolaiggi	1	2		2	2	3	II	10.6	11.0	1.5	0	4	2	2	1	6	10	1	2	3.5	3.6	1	3	2	4	2	1	1
662	Kobalkanama	Simbu	Pawalanggi	1	2		2	1	0	IV2	9.6	8.4	0.3	2	4	1	2	1	1	10	2	3	3.0	3.8	1	1	1	4	1	2	1
663	Konaba	Simbu	Dumandiggi	1	2		2	2	1	II	9.5	9.4	0.9	0	4	6	2	1	1	10	2	2	2.7	3.2	1	1	2	4	1	2	1
664	Bwakamb	Simbu	Wariambo	1	2		1	1	0	II	11.1	10.1	0.7	0	3	6	3	1	4	10	0										
665	Kerowagi	Simbu	Konme	1	2		1	3	2	IV1	9.6	8.4	-.1	2	3	1	1	1	5	10	2	2	3.2	3.5	1	2	2	4	1	2	1
666	Ki	Simbu	Wan-Mun White	1	2		1	1	2	II	11.6	10.8	0.4	0	1	1	2	1	1	10	1	2	3.6	4.2	1	1	2	4	2	2	1
667	Ki	Simbu	Kamambu	1	2		2	1	0	I3	10.0	11.9	1.7	0	2	1	2	1	1	10	2	2	3.1	3.6	1	1	1	4	1	2	1
668	Itokama	Oro		1	2		1	1	0	II	10.1	11.6	0.7	0	2	1	3	1	5	10	2	3	3.4	3.6	1	1	2	4	1	1	1
669	Itokama	Oro		1	2		3	3	2	I2	11.0	12.4	1.5	0	2	2	2	1	5	10	2	2	3.3	3.8	1	2	2	4	1	1	1
670	Itokama	Simbu		1	2		1	1	0	II	7.0	8.6	0.9	0	1	1	1	1	1	20	1	2	3.2	3.3	1	1	3	4	1	1	1
671	Itokama	Oro		1	2		2	3	1	II	10.7	12.6	1.5	0	2	7	2	2	5	10	3	3	3.3	4.2	1	2	4	4	2	1	1
672			Merikan	1	2		2	4	2	I2	9.5	10.5	1.6	0	2	7	2	1	1	20	3	2	3.4	4.0	1	2	4	4	1	1	1
673			Deka	1	2		2	2	2	II2	10.1	9.5	0.6	1	3	6	3	1	5	10	0										
674	Bumbu, Lae	Morobe	Lae 1	1	2		2	2	1	II2	10.9	11.1	1.4	1	5	7	2	1	7	10	3	2	3.3	3.6	1	2	2	4	1	1	1
675	Bumbu, Lae	Morobe	Lae II	1	2		2	3	0	II	10.2	11.1	2.2	0	4	6	2	2	5	10	2	3	3.5	4.0	1	2	1	4	2	3	1
676	Bumbu, Lae	Morobe	Lae III	1	2		1	2	1	IV2	14.0	15.1	1.9	2	3	6	3	1	5	10	1	3	3.7	4.2	1	1	2	4	1	1	1
677	Bumbu, Lae	Morobe	Lae IV	1	2		1	1	0	II	7.3	8.9	1.4	0	1	2	2	1	1	20	1	2			1	1	1	4	1	1	1
678	Kainantu	EHP		1	2		2	1	2	II3	9.1	11.4	1.0	1	3	6	2	1	1	10	2	2	3.3	3.9	1	2	2	4	1	2	1
679	Bouganville		Kuru	1	2		1	2	0	IV2	9.1	9.8	0.4	2	1	3	1	1	4	10	1		3.5	4.1							
680	Aiyura	EHP		1	2		1	2	0	IV2	12.2	13.8	0.9	2	3	7	2	1	6	10	1	2	3.4	4.2	1	2	4	4	1	2	1
681	St Anna, Aitape	WSP		1	2		2	2	2	II	11.1	11.4	0.3	0	5	6	2	1	5	10	3	3	3.9	3.9	1	1	2	4	1	2	1
682	St Anna, Aitape	WSP		1	2		2	3	0	IV2	8.1	8.8	0.9	2	5	1	1	2	1	231	2	2	3.4	3.9	1	2	2	4	1	2	1
683	St Anna, Aitape	WSP		1	2		1	3	0	V2	10.1	9.9	-.4	3	3	2	2	1		141	0										
684	St Anna, Aitape	WSP		1	2		2	3	1	II	8.4	8.5	0.3	0	2	2	2	1	1	413	2	2	3.3	4.1	1	1	2	4	1	1	1
685	St Anna, Aitape	WSP		1	2		2	1	2	II	10.0	11.7	1.4	0	1	1	2	1	1	10	1		3.5	4.3							
686	Tadti, Aitape	WSP		1	2		2	3	1	IV2	8.5	8.9	0.4	2	2	7	1	2	7	10	1	2	3.2	3.9	1	1	1	4	1	1	1
687	Tadti, Aitape	WSP	Tapilo	1	2		2	3	2	II	8.9	9.8	0.7	0	2	4	2	1	1	231	2	2	3.5	3.7	1	2	2	4	1	1	1
688	Tadti, Aitape	WSP	Momoken	1	2		2	4	1	III	10.7	9.7	0.1	1	5	7	2	1	5	10	3	3	4.2	4.2	1	1	2	4	2	2	1
689	Tadti, Aitape	WSP	Kangkong	1	2		1	5	0	V2	11.8	11.1	0.0	3	4	4	1	1	6	10	2	2	3.2	4.1	1	4	2	4	1	2	1
690	Tadti, Aitape	WSP		1	2		1	1	0	II2	8.1	9.5	1.0	1	2	2	1	1	7	10	1	2	3.4	4.2	1	1	2	4	1	2	1
691	Tadti, Aitape	WSP		1	2		2	1	2	II	11.1	10.7	1.1	0	3	6	2	1	5	10	2	2	3.3	4.2	1	1	2	4	1	2	1
692	Tadti, Aitape	WSP		1	2		2	2	1	II	11.1	9.4	0.0	0	5	7	2	1	6	10	2	3	4.0	4.3	1	1	2	4	1	1	1
693	Aitape School	WSP		1	2		2	1	2	II	10.7	11.5	1.5	0	4	2	2	1	1	131	2	2	3.3	3.7	1	2	2	4	1	2	1
694	Aitape School	WSP		1	2		1	2	1	IV2	13.7	12.3	2.0	2	2	4	3	1	6	10	2	2	3.4	3.6	1	1	2	4	1	1	1

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
695	Aitape School	WSP		1	2		1	5	0	12	11.0	13.5	0.8	0	4	4	2	2	3	232	0										
696	Biaru Wau	Morobe		1	2		2	5	2	11	10.0	10.2	1.2	0	2	7	2	3	5	20	0										
697	Popondetta	Oro		1	2		2	1	2	11	11.2	11.1	1.5	0	4	2	2	1	5	10	2		3.8	3.6							
698	Popondetta	Oro		1	2		3	3	0	1112	8.7	8.3	0.6	2	3	6	1	1	5	232	3	3	3.5	4.0	1	1	2	4	1	1	1
699	Popondetta	Oro		1	2		3	5	0	1V2	9.7	8.6	0.3	2	3	7	2	2	8	10	3	3	3.6	4.1	1	3	2	4	1	1	1
700	Popondetta	Oro		1	2		2	1	2	112	8.8	9.4	1.1	1	3	7	1	1	1	10	2	2	3.0	3.7	1	1	3	4	1	1	1
701	Gemborg	Simbu	Plawa	1	2		1	1	0	V3	12.2	14.8	1.8	3	6	1	2	1	1	10	1	2			1	1	2	4	1	2	1
702			Simbu	1	2		3	1	0	1112	9.8	10.9	1.4	2	3	4	2	1	4	10	1	2	3.6	3.8	1	1	2	4	1	2	1
703	Maia, Pangia	SHP	Bone	1	2		1	1	2	11	9.1	9.5	0.8	0	2	4	2	1	1	20	3	2	3.0	3.9	1	1	2	4	1	2	1
704	Maia, Pangia	SHP	Kimbo	1	2		2	1	0	1112	11.2	13.2	1.4	2	4	6	2	1	1	10	2	2	3.3	4.3	1	1	2	4	1	2	1
705	Maia, Pangia	SHP	Nugunu Parapa	1	2		3	1	0	1V3	9.1	9.0	0.0	2	1	1	2	1	1	10	2	2	3.3	3.9	1	1	2	4	1	2	1
706	Maia, Pangia	SHP	Ake	1	2		2	1	2	11	9.3	11.3	1.7	0	2	1	3	1	1	10	2	2	3.2	3.8	1	1	2	4	1	2	1
707	Maia, Pangia	SHP	Waie	1	2		2	2	0	1V3	11.5	13.1	0.4	2	3	2	2	1	7	10	1	2			1	1	2	4	1	2	1
708	Maia, Pangia	SHP	Baia	1	2		1	1	0	1V3	10.7	10.6	0.4	2	2	1	2	1	1	10	1	2	3.6	3.8	1	1	2	4	1	2	1
709	Pouka, Pangia	SHP	Kove	1	2		3	1	0	1111	10.1	11.8	1.3	2	3	2	2	1	4	10	3	2	3.3	3.6	3	1	2	4	1	2	1
710	Pouka, Pangia	SHP	Bonopu	1	2		2	3	0	1111	10.5	10.8	0.9	2	4	7	2	2	5	241	1		3.3	4.1							
711	Road Bung, Mendi	SHP		1	2		2	3	1	1112	9.9	10.2	0.2	2	5	1	1	2	1	131	2	3	3.6	4.5	1	2	4	4	1	2	1
712	CM Magarima	SHP	Ruru	1	2		3	2	1	1V2	9.8	11.9	1.9	2	3	6	3	1	4	10	2	2	3.5	4.0	1	1	2	4	1	3	1
713	SDA Magarima	SHP	Forongo	1	2		2	1	0	1112	8.8	8.4	0.5	2	3	6	1	1	8	10	3	3	3.2	3.8	1	1	2	4	1	1	1
714	Tokiroko, Tari	SHP	Tapura	1	2		2	1	1	1V2	9.1	10.3	0.3	2	2	1	2	1	1	10	2	2	3.4	3.7	1	1	2	4	1	2	1
715	Tokiroko, Tari	SHP	Tampera	1	2		3	2	0	11	10.5	11.4	1.1	0	3	2	2	1	1	10	3	2	3.4	3.7	1	1	2	4	1	3	1
716	Tokiroko, Tari	SHP	Sepropaia	1	2		2	2	3	11	10.1	11.4	1.5	0	4	7	3	1	1	10	1	2	2.9	3.6	1	1	5	4	1	2	1
717	Tokiroko, Tari	SHP	Esdiei	1	2		3	3	1	112	12.9	14.3	0.9	1	3	1	2	2	3	321	3	2	4.0	4.6	1	2	2	4	1	2	1
718	Edmari School	SHP	Mone	1	2		2	1	2	113	10.9	13.3	2.4	1	1	2	3	1	1	10	0										
719	Edmari School	SHP	Ebegone	1	2		2	4	1	1V2	12.6	12.0	0.4	2	1	3	3	2	4	231	2	3	3.4	4.7	1	2	2	4	2	2	1
720	Lake Kopiago	SHP		1	2		3	3	1	1112	12.6	12.9	-.5	2	3	1	2	1	5	10	2	2	3.4	4.4	1	2	2	4	2	2	2
721	Kopiago	SHP	Lumbawa	1	2		2	1	2	11	12.5	12.6	0.7	0	5	2	3	1	1	10	1	3			1	2	2	4	1	1	1
722	Hageni, Kopiago	SHP	Wanmine	1	2		1	1	2	11	9.7	9.9	1.3	0	4	2	2	1	5	10	1	2	3.6	3.7	1	3	2	4	2	1	1
723	Hageni, Kopiago	SHP	Afangi	1	2		3	1	2	1112	9.8	10.3	0.8	2	4	1	2	1	4	10	3	2	3.4	4.1	1	1	2	4	1	2	1
724	Hageni, Kopiago	SHP	Bouro	1	2		3	4	1	112	13.5	12.8	0.9	1	2	7	3	1	5	10	3	2	3.8	4.7	1	2	2	4	2	3	1
725	Hareke, Koroba	SHP		1	2		3	5	2	11	12.2	11.6	0.7	0	5	7	3	3	4	10	1		3.1	4.5							
726	Aiyura	EHP		1	2		2	4	2	1113	10.4	9.3	0.1	2	3	1	2	2	3	131	3	2	3.3	4.0	1	1	2	4	2	1	1
727	Aiyura	EHP	Merikan type	1	2		2	2	2	1113	9.1	9.3	1.7	2	2	7	2	1	1	10	3	3	3.2	3.9	1	1	1	4	1	2	1
728	Aiyura	EHP	Wan-Mun Kabiufa	2	2		3	3	1	11	9.8	10.5	1.2	0	5	2	1	2	5	10	3	2	3.7	3.8	1	2	5	4	2	3	1
729	Aiyura	EHP	Wan-Mun Red	1	2		2	3	1	11	10.8	10.3	0.8	0	5	1	2	1	5	10	1	2	3.3	3.7	1	3	2	4	1	2	1
730	Tairora, Aiyura	EHP	Kekori	1	2		2	4	1	1V2	10.3	8.9	1.0	2	2	7	2	2	1	10	3	2	3.7	4.2	1	1	2	4	1	2	1
731	Aiyura	EHP		1	2		2	1	1	11	8.6	7.7	0.3	0	3	6	2	1	5	10	0										
732	Aiyura	EHP		1	2		1	2	0	111	7.3	8.8	0.5	1	3	7	2	1	1	141	0										
733	Aiyura	EHP		1	2		3	4	2	11	10.0	11.5	1.2	0	1	7	2	2	4	141	3	2	3.5	3.9	1	1	2	4	1	2	1
734	Aiyura	EHP		2	2		3	3	1	11	11.1	12.1	1.1	0	5	2	1	2	5	10	3	2	4.1	4.1	1	2	2	4	2	3	1
735	Tairora	EHP	Munduena	1	2		2	1	2	11	9.7	10.8	1.3	0	2	1	2	1	1	10	1		3.0	3.6							
736	Aiyura	EHP		1	2		2	3	2	1V2	11.2	9.6	-.5	2	5	6	2	2	5	10	1		3.5	3.9							
737	Tairora, Aiyura	EHP		1	2		2	3	1	11	10.5	11.0	0.9	0	3	1	2	1	5	10	1	2	3.3	3.8	1	2	2	4	1	1	1
738	Tairora, Aiyura	EHP		1	2		2	2	1	13	8.9	10.0	1.4	0	4	6	2	1	5	10	2	2	3.4	4.3	1	1	1	4	1	2	1
739		SHP		1	2		2	1	1	11	9.2	9.2	1.2	0	2	1	2	1	5	10	1										
740		SHP		1	2		2	4	2	11	10.8	9.8	1.3	0	4	1	2	1	5	10	2	2	3.6	4.6	1	2	2	4	1	1	1
741		SHP		1	2		2	2	0	12	13.6	13.6	1.6	0	3	4	3	1	1	10	1		3.4	4.1							
742		SHP		1	2		2	3	2	11	8.3	8.7	1.3	0	3	6	1	1	5	10	1	2			1	1	1	1	1	2	1
743		SHP		1	2		3	4	1	1111	8.4	9.5	1.5	2	2	7	2	2	3	30	2	2	3.8	3.8	1	4	2	4	1	3	1
744		SHP		1	2		1	1	0	V3	11.4	14.2	1.8	3	6	1	1	1	1	10	2		3.7	4.4							

Table 26 (cont'd)

Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
746	SHP		1	2		3	4	2	I1	9.7	10.8	1.4	0	3	7	3	2	5	10	3	2	3.4	4.6	1	2	2	4	1	1	1
747	SHP		1	2		2	4	2	I1	7.7	8.6	0.6	0	4	7	1	2	5	20	3	2	3.3	4.7	1	3	2	4	1	1	1
748	SHP		1	2		2	1	0	I1	10.1	9.7	1.0	0	3	2	3	1	8	10	1	2			1	1	3	4	2	1	1
749	SHP		1	2		2	1	2	I1	9.8	10.1	1.4	0	2	2	2	1	5	10	2	3	2.6	3.1	1	1	1	4	1	1	1
750	SHP		1	2		3	1	2	I1	10.0	12.2	2.0	0	3	6	2	1	8	10	2	2	3.0	3.5	1	1	1	4	1	2	2
751	SHP		1	2		2	4	1	I1I2	8.3	8.5	0.1	2	2	7	2	2	5	10	1		3.5	3.9							
752	SHP		1	2		2	1	0	I1I3	9.6	10.2	1.2	2	1	2	2	1	1	10	1		3.4	3.7							
753	SHP		1	2		3	1	2	I1	10.8	12.3	1.1	0	5	6	2	1	5	10	2	3	3.1	3.4	1	2	3	4	1	2	2
754	SHP		1	2		3	1	1	I1	11.5	11.7	0.2	0	5	6	2	1	4	20	2	2	3.4	4.2	1	2	2	4	1	1	1
755	SHP		1	2		4	1	0	I1	8.9	10.2	1.7	0	2	6	1	1	1	231	1										
756	SHP	Kamara	1	2		3	5	2	I1I1	10.0	11.2	0.7	2	3	7	2	3	1	20	1	2	3.4	3.4	1	3	2	4	1	1	1
757	SHP	Monoo	1	2		3	3	0	IV2	10.1	10.7	0.7	2	3	7	2	2	7	10	1		3.4	4.1							
758	SHP	Ruli	1	2		1	2	1	I1	10.8	10.8	0.4	0	2	7	2	1	5	132	1										
759		Matambo	1	2		1	1	0	IV2	11.0	10.7	1.4	2	3	3	2	1	5	10	0										
760	SHP	Moko	1	2		3	1	1	I1	11.9	13.8	2.3	0	3	6	3	1	7	10	2	2	2.9	3.7	1	1	4	4	1	2	2
761	SHP	Maden	1	2		2	1	2	I1	13.0	16.5	1.0	0	3	7	3	1	7	10	2	2	3.5	4.5	1	2	2	4	1	1	1
762	SHP	Miminbi	1	2		2	1	3	I1	9.8	10.6	1.8	0	4	2	3	1	6	10	2	2	2.4	2.8	1	4	4	4	1	3	1
763	SHP	Mapmagese	1	2		2	1	3	I1	12.4	13.4	2.2	0	2	3	2	1	6	10	1	2			1	1	4	2	1	1	1
764	SHP	Dalla	1	2		2	1	0	IV2	9.8	8.7	0.3	2	2	2	2	1	5	10	1		3.4	4.4							
765	SHP	Peripon	1	2		2	3	0	IV2	8.3	8.2	0.7	2	3	1	2	1	5	10	2	2	3.3	3.7	1	2	2	4	1	2	1
766	SHP	Kiro	1	2		2	1	0	I1	8.2	9.9	1.1	0	3	2	2	1	4	10	2	2	3.2	3.5	1	1	2	4	1	2	1
767	SHP	Pigaig	1	2		2	1	2	I3	10.7	12.5	2.1	0	3	2	3	1	1	20	0										
768	SHP	Pakaka	1	2		2	1	1	I1	11.1	10.1	1.2	0	3	2	2	1	8	10	1	2			1	1	3	4	2	2	1
769	SHP	Habia	1	2		2	1	0	V3	10.6	10.9	0.5	3	1	1	2	1	1	10	1		3.3	4.0							
770	SHP	Pigawe	1	2		3	2	1	IV2	9.5	11.3	1.8	2	3	7	2	1	4	10	1	2	3.4	4.0	1	1	3	4	1	3	1
771	SHP	Bone	1	2		3	5	1	I1I1	9.6	10.8	1.1	2	3	7	2	3	1	20	1	2	3.5	3.3	1	3	4	4	1	1	1
772	SHP	Manembi	1	2		3	4	1	I12	10.1	12.4	1.8	1	5	7	2	2	7	10	2	2	3.4	4.7	1	2	4	4	1	1	1
773	SHP	Kirop	1	2		3	1	1	I11	11.0	12.0	1.4	1	2	1	3	1	5	10	1	2	3.3	3.3	1	1	2	4	1	2	1
774	SHP	Sumeda	1	2		2	1	0	I2	12.0	11.5	0.1	0	4	1	3	1	1	10	2	2	3.3	4.3	1	1	2	4	1	2	1
775	SHP	Mend Kala	1	2		2	1	0	IV2	10.7	9.6	1.1	2	3	1	2	1	1	10	2	2	3.5	4.0	1	1	2	4	1	1	1
776	SHP	Muma	1	2		2	1	2	I2	8.1	8.5	0.9	0	1	3	2	1	1	10	1	2	3.8	3.7	1	1	1	4	1	2	1
777	SHP	Mundu Jame	1	2		2	1	2	I1	10.8	12.1	3.3	0	2	1	3	1	5	10	2	2	2.8	4.2	1	4	4	4	1	2	1
778	SHP	Mammil	1	2		2	4	0	I1	8.8	11.1	1.9	0	2	2	2	1		132	2	2	3.0	3.2	1	2	2	4	1	2	1
779	SHP	Kebu	1	2		2	1	2	I1	8.7	9.8	1.5	0	3	1	3	1	6	10	2	2	3.5	4.0	1	2	1	4	1	2	1
780	SHP	Samanaria	1	2		2	1	1	I1	10.7	11.7	1.4	0	2	2	3	1	1	10	3	2	3.3	4.2	1	1	2	4	1	2	1
781	SHP	Pori	1	2		3	1	0	I13	10.5	10.5	0.9	1	4	2	3	1	5	10	2	2	3.2	3.8	1	1	2	4	2	2	1
782	SHP	Popo	1	2		3	1	1	IV3	13.3	11.4	1.0	2	3	1	3	1	1	10	1	2	3.4	3.9	1	1	2	4	1	1	1
783	SHP	Lain	1	2		2	2	1	IV2	10.7	11.1	0.9	2	2	4	2	1	6	10	2	2	3.3	3.5	1	2	2	4	1	2	1
784	SHP	Aron	1	2		3	1	0	I1	12.6	10.8	2.2	0	2	2	2	1	6	10	2	2	3.1	3.9	1	1	1	4	1	2	1
785	SHP	Kiunmnaku	1	2		2	5	1	I1	8.9	10.7	1.3	0	2	7	2	2	5	10	1	3	3.5	4.0	1	2	4	4	1	2	1
786	SHP	Waris	1	2		2	5	1	IV2	9.7	10.9	0.9	2	5	4	2	2	2	10	3	2	3.3	4.0	1	4	2	4	2	2	1
787	SHP	Kaiyani	1	2		2	3	2	I1	8.8	9.6	1.4	0	4	7	2	2	5	10	1	2	3.6	4.1	1	2	1	4	1	2	1
788	SHP	Koe	1	2		2	4	2	I1	11.6	12.2	1.1	0	2	7	2	2	5	10	3	2	3.9	4.3	1	1	2	4	1	3	1
789	SHP	Kaima	1	2		2	5	3	I1	11.3	10.9	1.6	0	3	4	3	2	5	10	1		3.5	4.1							
790	SHP	Porenogo	1	2		3	1	0	I1I2	10.2	9.8	1.0	2	3	6	2	1	7	10	2	2	3.4	3.9	1	1	2	4	1	1	1
791	SHP	Lamala	1	2		3	3	0	I12	13.2	14.2	1.0	1	3	7	3	1	5	10	2	2	3.5	4.1	1	2	2	4	1	3	1
792	SHP	Sekamonde	1	2		3	1	1	I1	12.6	11.8	-.2	0	5	1	3	1	4	10	0										
793	SHP	Akon	1	2		3	3	0	I1I2	12.5	12.3	-.4	2	4	1	2	2	4	10	0										
794	SHP	Mamanodo	1	2		2	1	3	IV2	10.8	12.5	1.8	2	2	1	3	1	5	10	1	2	3.4	3.9	1	1	2	4	2	2	1
796	SHP	Kalibigi	1	2		2	1	3	IV2	10.6	11.8	-.2	2	3	6	2	1	1	10	1										
797	SHP	Torea	1	2		3	2	1	I1	14.3	15.2	1.8	0	2	7	3	1	5	20	2	2	3.6	4.0	1	1	2	4	1	3	1
799	SHP	Nembi	1	2		2	1	0	IV2	9.3	10.2	0.7	2	3	7	2	1	7	10	1										
800	SHP	Puposu	1	2		3	3	2	I12	9.7	12.4	1.3	1	4	1	2	1	5	10	2	2	3.1	3.5	1	1	4	4	1	2	1
803	SHP	Gagaro	1	2		2	3	2	IV3	11.2	12.4	1.5	2	3	1	3	1		10	1		3.5	4.3							

Table 26 (cont'd)

	Village	Province	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
804		SHP	Tigili	1	2		2	1	2	II2	11.1	9.5	-.2	1	4	6	2	1	5	10	2	3	3.6	4.3	1	2	3	4	1	2	1
805		SHP	Raipa	1	2		3	1	3	I2	13.3	14.6	2.5	0	2	2	2	1	8	10	2	2	2.8	4.3	1	1	4	4	1	2	1
806		SHP	Egari	1	2		3	1	2	I1	11.4	12.4	1.6	0	4	1	3	1	5	10	2	3	2.9	4.0	1	1	5	3	1	1	1
807		SHP	Rakipa	1	2		3	1	2	I2	13.8	14.2	2.1	0	2	2	3	1	8	10	2	2	2.9	4.2	1	1	4	4	1	2	1
808		SHP	Riya	1	2		3	4	1	II2	10.4	11.0	1.7	1	3	7	2	1	3	10	1	3	3.4	4.5	1	1	1	4	1	1	1
809		SHP	Koona	1	2		3	3	0	II2	11.9	12.1	0.3	1	5	1	3	1	1	131	1	3	3.2	4.7	1	2	4	4	1	2	1
810		SHP	K6	1	2		2	1	2	I1	8.9	10.1	1.1	0	1	1	2		1	20	1		3.1	4.2							
811		SHP	K14	1	2		3	4	0	I2	12.2	14.3	2.0	0	3	3	3	1	3	232	2	2	3.6	4.0	1	2	2	4	2	2	1
812		SHP	K1	1	2		2	2	1	I1	11.0	11.4	0.8	0	4	7	2	1	1	10	2	2	3.3	4.3	1	1	1	4	1	1	1
813		SHP	Hopomheme	1	2		2	1	1	I1	10.3	9.6	0.2	0	3	2	3	1	7	10	1	2			1	1	3	1	1	1	1
814		SHP	Pulupiri	1	2		3	2	0	III3	12.8	13.5	2.3	2	2	4	3	1	1	10	3	3	3.0	3.7	1	4	2	4	1	1	1
815		SHP	Patua	1	2		3	2	1	I2	12.0	13.6	1.2	0	3	7	3	1	7	10	2	3	3.3	4.0	1	2	4	4	1	2	1
816		SHP	K2	1	2		2	1	2	I1	12.7	12.2	1.0	0	3	1	3	1	5	20	1	2			1	2	3	4	2	1	1
817	Concordia	Morobe	Tamoko	1	2		2	1	1	II2	10.7	10.7	-.2	1	3	3	2	1	1	10	1	2			1	1	2	4	1	2	1
818	Concordia	Morobe	Hamapa	1	2		2	2	3	I3	9.5	11.8	0.9	0	4	4	2	1	5	10	0										
819	Concordia	Morobe		1	2		2	1	2	IV1	10.9	10.7	0.2	2	2	4	2	1	5	10	0										
820	Kapini	Morobe	Wasamia	1	2		2	1	1	I1	10.7	10.3	1.2	0	5	1	2	1	4	10	0										
821	Kapini	Morobe	Timini	1	2		2	1	2	I1	11.3	11.3	0.4	0	3	1	2	1	6	10	0										
822	Kapini	Morobe	Chimbu	1	2		2	1	1	IV3	13.6	15.6	0.7	2	2	1	3	1	1	10	0										

SOLOMON ISLANDS

Sweet potato and Colocasia are the most important root crops in Solomon Islands. Germplasm collections of these and other crops are held by the Ministry of Agriculture and Lands at Dodo Creek Research Station (Curator: S. Caiger, Senior Research Officer, Agronomy), some being duplicated at Dala Farm, Malaita. Areas planted to the various crops and numbers of accessions currently held are given below.

	Area (ha)	Accessions
Cassava	67	36
Colocasia	1,065	31
Alocasia	-	4
Xanthosoma	-	2
Sweet potato	3,924	359
D. alata	397	238
D. esculenta	148	117
D. nummularia	-	31
D. rotundata	-	14
D. bulbifera	-	11
D. pentaphylla	-	2
D. trifida	-	1

Included in the number of sweet potato accessions are 13 IITA lines and two lines from the AVRDC. Numerous breeder's lines from open-pollinated crosses involving both local and IITA material are maintained. The D. rotundata (breeder's lines from IITA) and D. trifida (from Vanuatu) accessions are also not local. In addition, there are several taro cultivars from India and Japan and a "wild" Colocasia from Thailand and one accession of C. gigantea from Indonesia. These have been used in a taro breeding programme for resistance to the nematode Hirshmaniella miticausa, leaf blight and the local virus complex. Over 200 breeder's lines are maintained and seed from the breeding programme has been sent to Papua New Guinea for evaluation and crossing with elite local cultivars at Keravat. The taro collection is the only one which is seriously unrepresentative of the variation in the country.

Cassava

Cassava cultivar WSH 9 (accession 3) is very popular on the Guadalcanal Plains. A trial on Choiseul in 1979 - 80 suggested that, in terms of both numbers of tubers per plant and weight of tubers per plant, the following cultivars are the best: Maliae 4 (7), WSH 9 (3), WSH 4 (16), Maliae 5 (8), WSH 2 (19) and Curry Gizo (22). Cultivar evaluation for resistance to a mosaic virus disease (on Choiseul Island only) is being carried out in the Western Province. This is a newly characterized cassava virus disease and has been named cassava green mottle by Dr. B. Harrison at the Scottish Crop Research Institute, Invergowrie, Scotland. Descriptors for cassava are presented in Table 27.

Taro

Akalomamale and Luma'abu are two of the better Solomon Islands taro cultivars for yield and taste, and have been used in the breeding programme. The former is also resistant to the alomae virus complex. There is some duplication in the collection: 4 = 5 = 15 and 17 = 26. Of the varieties not yet represented in the collection, Oga is low-yielding but may have some Pythium resistance, as it grows well on heavy soils. Luhu is high yielding and well liked.

Tiko, an acrid "wild" taro, is resistant to Hirschmaniella. Descriptors for taro are presented in Table 28.

Sweet potato

The large Solomon Islands sweet potato collection (Table 29) is being assessed for agronomic performance. In a trial in 1983 which resulted in generally poor yields because of wet conditions at planting time, followed by a dry spell, Reefs Jimi (268), Dingale (213), Sinulu (108) and Ngiriare (275) gave the highest yields. Also recommended are Three Months (206), Puri Puri (79), Gina I (43), WV 5 (172), Iqi (78), Santa Cruz (165) and Kwerefaka (202). All these cultivars have been sent to PRI to be meristem-cultured and virus-indexed. Selected cultivars are also at GCRI.

Santa Cruz and Three Months are popular on the Guadalcanal Plains, Western (166) is also popular but is generally a poor yielder. Cultivar WV 5 may have some resistance to little leaf virus disease. The following cultivars have been analysed for nutritional quality by the ANU/ACIAR project: 29, 37, 40, 42, 45, 50, 101, 105, 107, 108, 127, 131, 132, 137, 139, 158, 166, 183, 206, 213, 220, 268 and 275. Particularly high values of energy content were shown by 20, 108 and 158 in at least one of the two trials from which nutritional data is available. The majority of Solomon Islands cultivars are scab-resistant.

A printout has been supplied to the staff at Dodo Creek Research Station of the accessions indexed on the following descriptors, in order: mature leaf dissection (11), immature leaf colour (12), abaxial leaf vein colour (13), vine pigmentation (5), tuber skin colour (16) and tuber flesh colour (17).

This revealed that the preliminary identification of approximately 150 distinct types in the collection (including the 19 exotic accessions) was substantially justified. After checking in the field, duplicates will be removed.

Yam (D. alata)

There is much material in the Solomon Islands D. alata collection (Table 30) that is resistant to anthracnose. Some of these accessions are at GCRI. Evaluation of the collection for yield is in progress. A printout has been supplied to the staff at Dodo Creek Research Station of the accessions indexed on the following descriptors, in order: young leaf colour (8), young leaf margin colour (10), young petiole colour (11), mature petiole colour (4) and tuber flesh colour (19). This revealed considerable duplication, which is being checked in the field. However, the definitive identifications of duplicates will have to await the collection of full tuber descriptors, and in particular the accurate description of tuber shape.

Pana (D. esculenta)

Evaluation of the Solomon Islands D. esculenta collection (Table 31) is in progress. A printout of the accessions indexed on the following descriptors, in order, has been supplied to the staff at Dodo Creek, with a view to confirming in the field, the extent of duplication: young leaf colour (1), young leaf margin colour (2), mature petiole colour (8), tuber flesh colour (13) roots on tubers (15). Again, there seems to be much duplication in the collection, which will have to be checked in the field and confirmed when full tuber shape descriptor data are collected.

Table 27

DESCRIPTORS FOR CASSAVA VARIETIES OF SOLOMON ISLANDS

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Santa Cruz	4		3	2	7			4	1	1	3			1		1				2
2	Tikopia 1	4		3	2	7			4	1	1	3			1		1				2
3	WSH 9	4		3	2	7			3	1	3	3	1		2		1				2
4	Reefs 1	4		3	2	7			3	1	3	3			2		1				2
5	WSH 7	3		2	1	9			2	1	2	3			1		1				2
6	**WSH 8**	3		2	2	7			1	2	2	3	2		1		1				2
7	Maliae 4	3		3	2	9			3	1	2	1	1								
8	Maliae 5	3		2	2	7			3	1	1	3	1		1		1				2
9	Neboi Keipoki	3		3	2	9			3	1	2	3			2		1				2
10	Koromira	3		3	2	7			4	1	2	3	1		1		1				2
11	Teomo Keipoki 3	3		1	2	7			1	1	1	3			1		3				2
12	WSH 10	3		3	2	7			4	2	2	3	1								
13	Anuta 1A	3		3	2	8			3	1	2	3			1		1				2
14	Betikama	3		2	2	9			3	1	1	3			2		1				1
15	Maliae 2	1		1	2	7			3	1	2	3	2		1		3				2
16	WSH 4	1		3	2	7			4	1	2	3	3		1		1				1
17	Reef 2	1		2	2	7			1	1	1	3			1		1				1
18	WSH 5	3		2	1	7			3	1	1	3	2		1		1				1
19	WSH 2	3		3	1	9			4	1	3	3	2		1		3				2
20	WSH 1	3		2	1	7			1	1	2	3	3		1		1				2
21	Malaita Red	1		3	2	7			4	1	2	3	2		1		1				2
22	Curry Gizo	1		2	2	9			3	1	3	3	2		1		1				2
23	WSH 13	1		3	3	7			2	1	2	2	1		1		1				2
24	Raru	4		3	2	8			4	1	2	3	3		1		1				2
25	WSH 12	1		2	2	7			1	1	3	3	2		1		1				2
26	Neboi Teomo Nendi	3		3	2	9			3	1	2	1			1		1				2
27	WSH 6	1		2	2	7			3	1	2	3	1		1		2				2
28	Dovele	3		3	2	7			3	1	1	2									
29	Curry	3		3	2	7			3	1	1	1									
30	Vega	1		1	2	7			1	1	1	1									
31	Hovikoilo	1		1	1	7			3	1	1	1									
32	Seven Day	3		1	1	8			1	1	1	1									
33	Motalava	3		2	1	7			3	2	1	2									
34	Vauvahu	3		3	1	7			4	1	1	1									
35	Veha	1		3	2	5			4	1	1	2									
36	Tatoma	1		1	2	7			3	1	1	1									

* For definitions of descriptor codes see p. 4.

Table 28

DESCRIPTORS FOR TARO VARIETIES OF SOLOMON ISLANDS

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Kumuabu	0		1	0		3	0	1	2	2	1		1--	2--	2--			3				
Kakekau	0		1	0		3	0	1	1	1	3		232	232	2--			-				
Yandina (Coloured)	0		1	0		3	1	0	0	1	0		1--	212	212			-				
Yandina	0		1	0		3	1	0	0	1	0		1--	212	212			-				
Ote	0		1	0		3	1	0	0	1	0		1--	212	212			-				
Lauru 1	0		1	0		3	0	1	1	1	0		1--	2--	2--			-				
Akwalo	0		3	1		3	0	3	2	1	3		132	232	232			-				
Buni	0		3	0		3	0	3	2	1	0		232	232	2--			3				
Gatokae	0		1	1		3	0	2	2	2	4		411	141	141			-				
Akalomamale	0		1	0		3	0	1	1	2	0		1--	124	124			3				
Luma'abu	0		1	1		3	0	0	0	2	0		2--	214	214			3				
Kolodia	0		1	0		3	0	0	0	2	0		2--	2--	2--			3				
Bau	0		1	1		3	0	1	2	2	4		1--	2--	2--			4				
Weather Coast 2	0		1	0		3	0	0	0	1	0		1--	212	212			-				
Karki Barker	0		1	1		3	0	2	2	2	4		424	424	244			3				
Mudimudi	0		1	1		3	1	3	2	1	3		4--	421	122			3				
Arogela	0		1	1		3	0	3	2	1	1		4--	2--	2--			-				
Bura Bura	0		1	1		3	0	3	2	1	3		4--	4--	141			3				
Papasua	1		1	0		3	0	0	0	1	0		142	242	242			-				
Tali	0		1	0		3	0	2	1	2	0		1--	121	121			3				
Kuriki	0		1	1		3	1	3	2	1	3		4--	421	122			4				
(Coloured)	0		1	1		3	0	2	2	1	1		4--	421	421			-				
Birosi	0		1	0		2	0	2	1	2	0		1--	1--	121			3				
Bikuki	0		1	1		3	0	2	2	1	1		4--	423	242			-				
Tahu	0		1	1		3	0	3	2	1	3		4--	423	421			4				
Hapa	0		1	0		3	0	2	1	1	0		2--	2--	2--			3				
Sabana	0		1	1		3	0	1	2	1	1		4--	4--	241			-				
Nuke	0		1	1		3	0	2	2	1	1		4--	421	241			-				
Gold Ridge Akalo	1		1	1		3	0	2	2	2	1		4--	2--	2--			-				

* For definitions of descriptor codes see p. 13.

Table 29

DESCRIPTORS FOR SWEET POTATO VARIETIES IN SOLOMON ISLANDS

	Cultivar name	Village	Island	* 1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Paliarodo	Walande	Small Malaita	1	2	3	2	3	1	2	3	5	3	2	2	10	3	3	4.6	3.7	1	3	3	3	1	2	1
2	Namanisu	Walande	Small Malaita	1	2	3	2	2	1	2	5	5	2	2	6	10	4	3	5.1	4.7	2	1	2	2	1	1	3
3	Shamuel 1	Walande	Small Malaita	1	2	3	2	5	0	3	4	3	3	2	6	20	3	3	5.2	4.3	1	4	3	2	1	2	1
4	Kine	Walande	Small Malaita	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.3	3.2	1	1	3	2	1	1	1
5	Pwari	Walande	Small Malaita	1	2	3	2	2	1	2	3	3	3	1	2	20	3	3	5.5	4.5	1	1	3	2	1	1	1
6	Walokaiel	Walande	Small Malaita	1	2	3	2	2	2	2	4	4	2	2	5	10	2										
7	Waikiru	Walande	Small Malaita	1	2	3	2	4	2	0	3	5	3	1	6	40	4	2	4.9	4.2	2	4	3	2	1	1	2
8	Solomon Is.	Walande	Small Malaita	1	2	3	2	3	1	1	4	3	2	2	6	10	2	3	4.4	3.8	1	2	3	2	1	3	
9	Three Months	Walande	Small Malaita	1	2	3	2	1	1	2	1	3	2	1	7	20	2	3	4.6	3.8	1	1	3	2	1	1	1
10	Walupopoda	Walande	Small Malaita	1	2	3	2	1	2	2	3	3	3	1	7	20	3	3	4.8	4.3	1	1	3	2	1	1	1
11	Laka	Walande	Small Malaita	1	2	3	2	2	3	0	2	5	3	2	2	20	2	3	4.9	4.2	1	3	3	2	1	1	1
12	Nalifiu	Walande	Small Malaita	1	2	3	2	3	1	2	5	1	2	2	2	20	3	3	4.5	3.9	1	1	3	2	1	2	2
13	Cannan	Walande	Small Malaita	2	2	3	2	2	2	1	5	5	2	1	7	20	3	3	4.8	3.8	1	1	2	2	2	1	2
14	Hahalolo	Walande	Small Malaita	2	2	3	2	3	3	1	5	5	2	2	7	20	3	3	4.8	3.8	1	1	2	2	2	1	2
15	Unknown	Walande	Small Malaita	1	2	3	2	2	3	0	2	5	3	2	2	20	2	3	4.8	4.2	1	3	3	2	1	1	1
16	Momole	Walande	Small Malaita	1	2	3	2	3	1	0	5	4	3	2	6	20	2	3	4.4	3.8	1	3	3	5	1	1	2
17	Latu	Walande	Small Malaita	1	2	3	2	1	3	1	1	1	1	1	1	14	3	2	4.7	3.9	1	1	2	2	1	2	1
18	Oruhura	Walande	Small Malaita	2	2	3	2	2	1	1	2	3	2	1	6	20	3	3	4.7	3.7	1	3	3	5	1	1	1
19	Abarafu	Walande	Small Malaita	1	2	3	2	4	3	0	3	5	3	2	7	20	3	3	4.9	4.0	1	3	4	2	1	2	1
20	Kwara'ae 2	Walande	Small Malaita	1	2	3	2	2	2	0	1	5	3	1	2	20	3	3	4.9	3.9	1	1	3	2	1	2	1
21	Ororo	Walande	Small Malaita	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.2	4.3	1	1	3	2	1	1	1
22	Betikama	Walande	Small Malaita	1	2	3	2	5	1	3	3	5	1	2	6	20	3	3	5.1	4.6	1	2	3	2	1	2	1
23	Susue	Walande	Small Malaita	1	2	3	2	3	1	0	5	4	3	2	6	20	3	3	4.5	3.9	1	3	3	2	1	1	2
24	A'apa'aroku	Walande	Small Malaita	1	2	3	2	3	3	0	3	4	3	1	6	20	3	3	5.3	4.6	1	3	4	2	1	2	1
25	Tabioca	Walande	Small Malaita	1	2	3	2	1	1	0	1	3	3	1	1	20	2	3	5.0	4.1	1	1	4	2	1	1	
26	Yandina	Yandina	Russell	1	2	3	2	3	2	2	5	5	2	2	6	10	4	3	5.2	4.5	2	1	2	2	1	1	3
27	Waitara	Barasipo	New Georgia	1	2	3	2	1	2	1	3	4	2	1	2	40	3	3	4.7	4.0	1	1	4	2	1	2	
28	Yandina	Yandina	Russell	1	2	3	2	4	1	2	2	5	3	2	6	20	3	3	4.7	4.3	1	1	3	2	1	1	1
29	Western Province	Yandina	Russell	1	2	3	2	3	2	3	5	5	2	1	6	10	4	3	5.2	4.4	2	1	2	2	1	1	3
30	Bilasa	Barasipo	New Georgia	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.8	3.7	1	1	3	2	1	1	1
31	Esmie	Yandina	Russell	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	3.6	1	1	3	2	1	1	1

* For definitions of descriptor codes see p. 27.

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
32	White River	Yandina	Russell	1	2	3	2	1	1	2	4	3	3	2	6	20	3	3	4.8	4.3	1	1	4	5	1	1	1
33	Mamisu	Yandina	Russell	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	3.6	1	1	4	2	2	1	1
34	Kaisinaria	Fiu	Malaita	1	2	3	2	3	3	0	2	5	1	1	2	20	3	3	4.9	4.0	1	1	3	2	1	2	
35	Kwerefaka 2	Dala	Malaita	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.3	4.3	1	1	3	2	1	1	1
36	Biraidafu	Dala	Malaita	1	2	3	2	1	3	0	1	3	3	1	1	20	3	3	4.7	4.3	1	1	4	5	1	1	1
37	Lauarai 1	Dala	Malaita	1	2	3	2	1	3	3	2	4	3	1	7	10	3	4	4.8	3.0	1	3	3	2	1	1	1
38	Lauarai 2	Dala	Malaita	1	2	3	2	1	3	1	2	3	3	1	2	20	3	3	4.8	3.8	1	1	3	5	1	2	1
39	Kakaro	Dala	Malaita	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.2	4.3	1	1	3	2	1	1	1
40	Faungalia	Dala	Malaita	2	2	3	2	3	3	1	5	5	2	2	7	20	3	3	4.9	4.0	1	1	2	2	2	1	
41	Moresi	Dala	Malaita	2	2	3	2	4	1	2	3	5	3	2	1	20	3	3	4.7	3.8	1	3	4	2	1	2	1
42	Betikama	Walande	Small Malaita	1	2	3	2	2	2	1	1	5	3	1	1	10	2	3	5.0	3.8	1	1	4	2	2	1	1
43	Gina 1	Dala	Malaita	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.5	3.5	1	1	3	2	1	1	1
44	Talabulau	Dala	Malaita	1	2	3	2	2	0	1	2	5	2	1	5	10	2	2	4.1	3.0	1	1	3	2	1	3	1
45	Roviana	Dala	Malaita	2	2	3	2	1	1	0	4	3	2	1	6	10	2	3	4.3	3.5	1	3	3	5	1	1	1
46	Gina 2	Dala	Malaita	1	2	3	2	1	1	1	3	4	2	1	6	20	2	3	4.3	3.5	1	1	4	2	1	2	1
47	Akabona	Dala	Malaita	1	2	3	2	1	2	1	3	4	2	2	2	30	2	3	4.7	3.6	1	1	4	2	1	2	1
48	Dairana	Dala	Malaita	1	2	3	2	3	3	0	5	5	1	1	2	20	3	3	4.8	3.8	1	1	3	2	2	1	1
49	Vele		Guadalcanal	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.7	4.2	1	1	3	2	2	1	1
50	Purepure	Purepure	Guadalcanal	1	2	3	2	3	3	0	5	4	3	1	1	20	2	3	4.9	3.8	1	3	4	2	2	2	
51	Esmie 2	Purepure	Guadalcanal	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.6	3.5	1	1	3	2	1	1	1
52	New Mungava 1		Guadalcanal	1	2	3	2	1	2	1	3	4	2	2	2	40	2	3	4.6	3.6	1	1	4	2	1	2	1
53	Papua (Durimai)		Guadalcanal	2	2	3	2	3	3	2	5	4	2	2	6	20	2	3	4.7	3.7	1	1	3	2	1	2	2
54	Faraway		Guadalcanal	2	2	3	2	3	3	0	5	5	3	2	6	20	3	3	5.1	4.8	1	3	3	2	1	2	2
55	Avu'Avu 1	Avu'Avu	Guadalcanal	1	2	3	2	3	3	2	5	5	3	2	7	20	4	3	4.6	3.7	1	3	3	2	1	2	2
56	Avu'Avu 2	Avu'Avu	Guadalcanal	1	2	3	2	3	3	0	5	5	1	2	6	20	3	3	5.1	4.5	1	3	3	2	1	2	
57	New Mungava 2		Guadalcanal	1	2	3	2	2	3	0	2	5	3	1	6	10	3	3	4.9	4.0	1	1	4	2	2	1	
58	Dikotabiro	Dala	Malaita	1	2	3	2	3	3	0	3	4	3	2	6	20	3	3	5.1	4.5	1	3	4	2	1	2	1
59	Dingale	Dala	Malaita	1	2	3	2	2	2	1	1	5	3	1	2	30	3	3	4.9	4.3	1	1	3	5	1	1	
60	Masu	Dala	Malaita	1	2	3	2	1	1	0	2	2	3	1	1	20	3	3	5.3	4.4	1	1	4	2	1	2	1
61	Fafoilolo	Dala	Malaita	1	2	2	2	3	3	2	3	4	1	1	6	10	3	3	4.8	4.2	1	1	3	2	1	2	1
62	Oioi	Dala	Malaita	1	2	3	2	2	3	0	2	5	3	1	2	30	3	3	4.6	4.5	1	1	3	5	1	1	1
63	Bellona	Dala	Malaita	1	2	3	2	3	3	0	3	5	3	2	6	40	3	2	5.1	4.4	2	2	3	2	1	1	2
64	Sedini Kwao	Dala	Malaita	1	2	3	2	3	3	1	5	4	3	2	2	30	3	3	5.0	4.3	1	3	3	5	1	2	
65	Rigi	Dala	Malaita	1	2	3	2	3	3	1	5	4	3	2	2	30	3	3	5.1	4.3	1	3	3	5	1	2	
66	Biraiareko	Dala	Malaita	1	2	3	2	1	3	1	1	1	1	1	1	14	3	2	4.6	3.8	1	1	2	2	1	2	1

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
67	Dorio	Dala	Malaita	1	2	3	2	3	2	2	4	4	2	1	6	10	3	3	4.7	3.9	1	1	3	2	1	2	1
68	Pawa 1	Dala	Malaita	1	2	3	2	3	3	2	3	4	3	1	7	20	3	3	4.9	4.4	1	1	3	2	1	1	
69	Kasapa	Sasamunga	Choiseul	1	2	3	2	4	2	4	3	4	3	2	1	20	2	3	5.0	4.0	1	3	4	2	1	2	
70	Sydney	Dala	Malaita	1	2	3	2	3	1	1	5	4	3	2	2	30	3	3	5.1	4.2	1	3	3	5	1	2	
71	Mole	Barakoma	Vella La Vella	1	2	3	2	2	3	2	3	3	3	1	2	20	2	3	5.3	4.2	1	1	3	2	1	1	1
72	Suma	Barakoma	Vella La Vella	1	2	3	2	1	3	0	2	3	3	1	1	20	3	2	4.8	4.4	1	1	4	5	1	1	1
73	Dada	Barakoma	Vella La Vella	1	2	3	2	4	3	2	5	2	3	2	5	20	2	3	4.7	3.9	1	1	4	2	1	2	1
74	Pilua	Barakoma	Vella La Vella	1	2	3	2	2	3	0	2	5	3	1	6	10	1	3	4.8	3.8	1	1	4	2	2	1	1
75	Ratu	Barakoma	Vella La Vella	1	2	3	2	3	2	2	3	4	2	2	7	20	3	3	4.6	4.2	1	1	4	2	1	2	1
76	Dala	Barakoma	Vella La Vella	1	2	3	2	2	2	2	3	3	2	1	5	10	2	3	4.8	3.7	1	3	3	2	1	1	1
77	Poepoe	Barakoma	Vella La Vella	1	2	3	2	1	1	0	1	3	3	1	1	20	2	3	5.1	4.0	1	1	4	2	1	2	1
78	Igi	Sasamunga	Choiseul	1	2	3	2	4	0	3	4	5	2	2	6	20	4	3	4.7	4.1	2	4	3	2	3	1	1
79	Puripuri	Sasamunga	Choiseul	2	2	3	2	1	3	2	2	1	2	1	1	10	4	3	5.0	4.4	1	1	4	2	2	1	1
80	Varatara 1	Sasamunga	Choiseul	1	2	3	2	3	2	2	3	3	4	2	7	10	3	3	4.9	4.3	1	1	5	3	1	2	2
81	Moti 1	Sasamunga	Choiseul	1	2	3	2	2	0	1	2	5	2	1	5	10	2	2	4.6	4.1	1	1	3	2	1	3	
82	Qelo	Sasamunga	Choiseul	1	2	3	2	3	3	2	5	5	3	2	5	20	3	4	5.4	4.5	1	3	4	2	1	2	1
83	Gizo Mesara 1	Sasamunga	Choiseul	1	2	3	2	3	1	1	5	4	3	2	2	30	3	3	5.1	4.4	1	3	3	5	1	2	2
84	Silidara	Sasamunga	Choiseul	1	2	3	2	2	1	0	3	3	3	1	5	10	3	3	4.8	3.9	1	3	3	2	1	1	1
85	Basana	Sasamunga	Choiseul	1	2	3	2	2	1	1	1	5	3	1	2	20	3	3	5.5	4.2	1	1	2	5	1	2	1
86	Gizo Sele 1	Sasamunga	Choiseul	1	2	3	2	1	1	2	1	3	2	1	1	20	2	3	4.6	3.6	1	1	3	2	1	1	1
87	Tutua	Sasamunga	Choiseul	1	2	3	2	3	2	2	5	5	2	2	6	10	3	3	5.1	4.4	2	1	2	2	1	1	3
88	Nanisi	Sasamunga	Choiseul	1	2	3	2	1	2	1	3	5	2	2	2	20	3	3	4.7	3.7	1	1	4	2	1	2	1
89	Aleke 1	Sasamunga	Choiseul	1	2	3	2	1	3	1	2	2	3	1	6	20	3	3	4.5	3.5	1	3	3	2	1	2	1
90	Kokoso	Sasamunga	Choiseul	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	4.0	1	1	4	2	2	1	
91	Talabula	Dala	Malaita	1	2	3	2	3	2	0	5	4	3	2	6	20	3	3	4.4	3.8	1	3	3	2	1	1	
92	Salu	Fulifoa	Malaita	1	2	3	2	3	3	3	3	4	1	1	6	10	3	3	4.7	3.7	1	1	3	2	1	2	1
93	Rigi	Fulifoa	Malaita	1	2	3	2	3	1	1	5	4	3	2	2	30	3	3	5.1	4.3	1	3	3	5	1	2	2
94	Henson	Dala	Malaita	1	2	3	2	1	2	2	2	1	2	1	5	10	3	3	4.7	3.7	1	1	4	2	1	1	
95	PMK 1	Arosi	Makira	1	2	3	2	3	2	2	5	5	2	2	6	10	3	3	5.2	4.7	2	1	2	2	1	1	3
96	PMK 2	Arosi	Makira	2	2	3	2	1	1	1	5	1	3	2	6	10	3	3	4.5	3.8	1	1	3	2	1	2	1
97	PMK 3	Arosi	Makira	1	2	3	2	4	2	2	2	5	3	1	6	20	2	3	4.7	4.0	1	1	3	2	1	1	
98	PMK 4	Arosi	Makira	1	2	3	2	3	2	2	3	4	3	1	5	20	3	3	5.0	4.5	1	3	3	2	1	2	
99	Kaibia	Kwai	Malaita	1	2	3	2	1	1	0	1	2	3	1	1	20	3	3	4.9	4.4	1	1	4	2	1	1	
100	One Month 1		Santa Cruz	1	2	3	2	2	2	1	2	5	2	1	6	10	2	3	4.8	4.2	1	1	3	2	1	3	1
101	Toni		Santa Cruz	1	2	3	2	4	1	0	3	5	3	1	2	20	3	3	5.0	4.5	1	1	3	2	1	1	2

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
102	Mina		Santa Cruz	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.5	3.6	1	1	3	2	1	1	1
103	Sotu		Santa Cruz	1	2	3	2	3	3	0	3	4	3	2	7	20	3	3	5.0	4.6	1	3	4	2	1	2	1
104	Wao		Santa Cruz	1	2	3	2	2	0	1	2	3	3	1	2	20	2	3	4.6	3.7	1	3	3	2	1	2	1
105	Teomo 1	Venga	Santa Cruz	1	2	3	2	2	3	2	1	3	3	1	7	10	2	3	4.8	4.2	1	1	3	5	1	2	1
106	Paveti	Barasipo	New Georgia	1	2	3	2	4	1	0	3	5	3	2	1	20	2	4	5.2	4.2	1	3	2	2	1	1	3
107	Duke		Kolobangara	1	2	3	2	4	2	2	3	5	3	2	5	20	3	4	5.3	4.4	1	3	4	2	1	2	
108	Sinulu		Kolobangara	1	2	3	2	1	1	1	2	1	3	1	6	20	3	3	4.4	3.9	1	1	3	5	1	1	1
109	Pulemolu	Kihili	Bougainville	1	2	3	2	1	1	1	1	4	3	1	2	20	2	3	4.7	4.2	1	1	2	2	1	1	
110	Bilua		Vella La Vella	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.3	4.2	1	1	4	2	2	1	1
111	Simbo		Simbo	1	2	3	2	3	1	1	5	4	3	2	2	30	3	3	5.1	4.2	1	3	3	2	1	2	2
112	Temakemake	Kolukoko	New Georgia	1	2	3	2	1	3	0	1	1	2	1	2	20	3	3	5.4	4.4	1	1	2	2	1	2	
113	Teika		Russell	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	4.1	1	1	4	2	2	1	
114	Bulolo	Bulolo	Russell	1	2	3	2	4	1	1	5	5	3	1	3	20	2	4	5.1	4.3	1	3	5	2	1	2	3
115	Atoifi	Bulolo	Russell	2	2	3	2	3	3	2	5	5	3	2	7	20	3	3	4.6	3.8	1	3	3	2	1	2	2
116	Kaiai	Yandina	Russell	1	2	3	2	1	1	0	1	2	3	1	1	20	3	3	4.8	4.0	1	1	4	2	1	1	1
117	Unknown	Bulolo	Russell	1	2	3	2	3	3	0	5	4	3	1	6	20	2	3	4.9	3.9	1	3	4	2	2	2	2
118	Kabani		Russell	1	2	3	2	2	3	2	4	3	3	1	7	10	2	3	5.2	4.2	1	2	3	2	1	2	
119	Mamala		Russell	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.1	4.4	1	1	3	2	1	1	1
120	Aedau		Russell	1	2	3	2	3	3	1	5	4	3	2	2	30	3	3	5.0	4.2	1	3	3	5	1	2	2
121	Tama		Russell	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.5	3.2	1	1	3	2	1	1	1
122	Sugar		Russell	1	2	3	2	2	3	0	2	5	3	1	6	10	3	3	4.7	3.6	1	1	4	2	2	1	
123	Lagui		Russell	1	2	3	2	1	1	1	1	2	2	1	2	20	3	3	4.7	3.7	1	1	3	2	1	1	1
124	Tehagetona		Russell	1	2	3	2	2	1	2	2	3	3	1	5	10	2	3	4.8	3.7	1	1	3	2	1	2	1
125	Santa Cruz 2	Holokama	Santa Isabel	1	2	3	2	2	3	1	2	5	3	1	6	20	3	3	4.8	4.1	1	1	3	2	1	3	
126	Gonogano	Holokama	Santa Cruz	1	2	3	2	1	2	1	3	4	2	1	2	40	3	3	4.4	3.6	1	1	4	2	1	2	1
127	Nawaro	Luesaleba	Santa Cruz	1	2	3	2	2	1	1	1	5	3	1	1	14	3	3	4.8	3.9	1	1	4	5	1	1	1
128	Jessie		Santa Cruz	1	2	3	2	1	3	1	1	1	2	1	1	14	3	2	4.8	4.1	1	1	2	2	1	2	1
129	Tabalia	Luesaleba	Santa Cruz	1	2	3	2	3	3	2	5	4	2	2	2	20	2	3	4.5	3.6	1	1	3	2	1	2	1
130	Gina Fox	Venga	Santa Cruz	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	3.5	1	1	3	2	1	1	1
131	Pelobo		Santa Cruz	1	2	3	2	2	1	0	4	3	3	1	2	10	3	3	4.8	3.5	1	1	3	2	1	1	2
132	Lai	Luesaleba	Santa Cruz	1	2	3	2	3	3	2	5	5	3	2	5	20	3	4	5.3	4.5	1	3	4	2	1	2	1
133	Nambo	Luesaleba	Santa Cruz	1	2	3	2	1	1	1	2	4	2	1	6	10	2	3	4.9	4.1	1	2	3	5	1	1	
134	Teomo 2	Venga	Santa Cruz	1	2	3	2	1	1	0	2	1	3	1	2	20	0										
135	Wea	Luesaleba	Santa Cruz	1	2	3	2	1	1	0	1	1	3	1	1	20	3	3	5.3	4.5	1	1	4	2	1	2	1
136	Pawa	Luesaleba	Santa Cruz	1	2	3	2	2	3	2	2	5	2	2	7	20	3	3	5.3	4.4	1	3	2	2	1	3	1

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
137	Vaka	Luesaleba	Santa Cruz	1	2	3	2	1	1	1	1	1	3	1	2	20	1										
138	Melango	Luesaleba	Santa Cruz	1	2	3	2	1	3	1	1	1	2	1	1	14	3	2	4.5	3.5	1	1	2	2	1	2	1
139	Bugotu 1	Venga	Santa Cruz	1	2	3	2	1	1	0	2	1	3	1	2	20	1	3									
140	Matepu	Venga	Santa Cruz	2	2	3	2	4	1	2	5	5	2	2	7	20	3	3	4.2	3.7	1	3	3	2	1	2	2
141	Haimarau	Haimarao	Guadalcanal	2	2	3	2	3	3	2	5	5	3	2	7	20	3	3	4.2	3.7	1	3	3	2	1	2	2
142	Kuma 2	Kuma	Guadalcanal	2	2	3	2	3	3	2	5	5	3	2	7	20	3	3	4.5	3.6	1	3	3	2	1	2	2
143	Vatukapi 3	Vatukapi	Guadalcanal	1	2	3	2	2	1	1	3	5	3	1	1	40	2	3	4.9	4.1	2	3	3	2	2	1	1
144	Market 2		Guadalcanal	1	2	3	2	2	1	1	3	5	3	2	1	40	3	3	4.6	3.9	2	3	3	2	2	1	2
145	Papua	Weather Coast	Guadalcanal	2	2	3	2	3	3	2	5	4	3	2	6	10	3	3	4.8	3.8	1	1	3	2	1	2	2
146	Chameri	Weather Coast	Guadalcanal	1	2	3	2	3	3	2	5	5	3	2	7	20	3	3	4.5	3.6	1	3	3	2	1	2	2
147	Managa 2	Tigiku	Rennell	1	2	3	2	1	3	2	1	1	2	1	2	20	3	2	5.1	4.6	1	1	3	2	1	1	
148	Uga 2	Tigiku	Rennell	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	3.7	1	1	4	2	2	1	1
149	Joel	Baigau	Rennell	1	2	3	2	1	3	1	2	4	2	1	6	20	3	3	4.9	3.9	1	3	4	2	1	1	1
150	Gaulioka	Baigau	Rennell	1	2	3	2	2	1	2	1	4	2	1	1	10	4	2	4.6	4.2	1	1	3	5	1	2	1
151	Susuqu	Tigiku	Rennell	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	3.3	1	1	3	2	1	1	1
152	Taupongi	Baigau	Rennell	1	2	3	2	3	2	2	3	3	2	2	6	20	2	3	4.6	3.9	1	3	3	2	1	1	1
153	Mange E Ugo	Tigiku	Rennell	1	2	3	2	3	2	2	5	5	2	2	6	10	3	3	5.2	4.6	2	1	2	2	1	1	3
154	Uvigai		Guadalcanal	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.2	4.2	1	1	3	2	1	1	1
155	College	Babanakira	Guadalcanal	1	2	3	2	3	3	0	3	4	3	2	6	20	3	3	5.0	4.5	1	3	4	2	1	2	1
156	Uga 1	Tigiku	Rennell	1	2	3	2	3	3	0	3	5	3	2	6	40	4	3	4.9	4.3	2	2	3	2	1	1	2
157	Vatukapi 1	Vatukapi	Guadalcanal	1	2	3	2	5	1	3	3	5	1	2	6	20	3	3	4.8	4.0	1	2	3	2	1	2	
158	Purepure 2	Avu'Avu	Guadalcanal	1	2	3	2	1	1	1	5	4	3	1	1	20	1	3	4.8	3.8	1	3	4	2	2	2	
159	Vatukapi 1	Vatukapi	Guadalcanal	1	2	3	2	3	3	0	5	4	3	1	1	20	2	3	4.9	3.8	1	3	4	2	2	2	
160	Betilonga		Guadalcanal	1	2	3	3	1	2	2	3	1	2	1	6	10	3	3	4.5	3.8	1	1	3	5	1	1	1
161	Esmie 1		Guadalcanal	1	2	3	2	1	1	2	1	3	2	1	1	10	2	3	4.9	4.5	1	1	3	2	1	1	1
162	Honiara	Vatukapi	Guadalcanal	1	2	3	2	3	3	2	3	4	3	1	7	20	3	3	4.9	4.3	1	1	3	2	1	1	1
163	Kuma 2	Kuma	Guadalcanal	1	2	3	2	1	1	2	1	3	2	1	7	20	2	3	4.9	4.2	1	1	3	2	1	1	
164	Gina 3		Guadalcanal	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.6	3.4	1	1	3	2	1	1	1
165	Santa Cruz 1		Guadalcanal	1	2	3	2	2	0	1	2	3	3	1	2	20	2	3	4.7	3.8	1	3	3	2	1	2	
166	Western 1		Guadalcanal	1	2	3	2	1	2	3	5	1	3	1	6	20	3	2	4.8	3.8	1	3	3	2	1	2	2
167	Kevitu	Tigiku	Rennell	1	2	3	2	3	3	0	3	5	3	2	6	40	3	2	5.1	4.3	2	1	3	2	1	1	2
168	Lord Howe		Lord Howe	1	2	3	2	3	2	1	3	5	3	1	6	20	2	3	4.9	4.6	1	3	3	5	1	3	

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
169	Laka 2		Lord Howe	1	2	3	2	3	3	1	5	4	3	1	2	30	3	3	4.8	3.8	1	3	3	5	1	2	2
170	Pumpkin	Nila	Shortlands	1	2	3	2	3	3	1	5	4	3	2	2	30	3	3	5.0	4.4	1	3	3	5	1	2	2
171	70 T (AVRDC)			1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.2	4.0	1	1	4	2	2	1	1
172	WV 5		Vella La Vella	1	2	3	2	1	1	0	1	2	3	1	1	20	3	3	4.9	4.5	1	3	4	5	1	1	1
173	Atabanio		Makira	1	2	3	2	2	3	1	2	3	3	2	6	20	2	3	4.9	4.0	1	1	4	2	1	2	1
174	Mamanisu		Makira	1	2	3	2	2	3	0	1	3	3	1	6	20	2	3	4.8	3.8	1	1	3	2	1	1	3
175	Kaisinaria 2		Makira	1	2	3	2	3	3	0	2	5	1	1	2	20	2	3	4.6	3.8	1	1	3	2	1	2	1
176	Avu'Avu	Avu'Avu	Guadalcanal	1	2	3	2	3	3	0	5	5	3	2	6	20	3	3	5.2	4.3	1	3	3	2	1	2	2
177	Moti 2	Sasamunga	Choiseul	1	2	3	2	4	1	1	4	5	2	2	6	14	1	4	5.2	4.2	1	2	3	2	1	1	
178	Orooro 2	Dala	Malaita	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.1	4.4	1	1	3	2	1	1	1
179	Gizo Sele 2	Sasamunga	Choiseul	1	2	3	2	1	1	2	1	3	2	1	1	20	2	3	4.4	3.5	1	1	3	2	1	1	1
180	New Mungava	New Mungava	Russell	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	3.5	1	1	4	2	2	1	1
181	Yandina		Russell	1	2	3	2	3	3	2	5	5	2	2	6	10	3	3	5.2	4.3	2	1	2	2	1	1	3
182	Esmie 2		Guadalcanal	1	2	3	2	1	1	1	1	1	2	1	2	20	3	3	4.5	3.7	1	1	3	2	1	1	
183	Santa Cruz	Plain	Guadalcanal	1	2	3	2	3	3	2	5	5	2	2	6	10	3	3	5.2	4.5	2	1	2	2	1	1	3
184	Magomo		Makira	1	2	3	2	2	1	2	1	3	3	1	5	10	3	3	4.8	3.8	1	1	3	2	1	2	1
185	Kwara'ae 1	Dala	Malaita	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.4	4.4	1	1	3	2	1	1	1
186	Anisi		Malaita	1	2	3	2	3	3	2	5	5	2	2	6	10	3	3	5.2	4.6	2	1	2	2	1	1	3
187	Gizo Mesara 2	Sasamunga	Choiseul	1	2	3	2	3	3	0	3	5	3	2	6	20	3	2	4.9	4.5	2	2	3	2	1	1	1
188	Bakua	Sasamunga	Choiseul	1	2	3	2	1	2	0	5	3	3	1	6	20	2	3	5.2	4.0	1	3	3	2	1	1	1
189	MK 6		Makira	1	2	3	2	3	3	0	3	4	2	1	6	20	2	3	4.5	3.7	1	3	3	2	1	1	1
190	49 T (AVRDC)			1	2	3	2	2	1	1	4	5	3	1	6	10	3	3	5.0	4.5	1	3	3	2	1	3	1
191	Santa Cruz 4		Santa Isabel	1	2	3	2	2	2	2	1	3	3	1	5	10	2	4	4.7	4.0	1	1	3	2	1	2	1
192	81 T (AVRDC)			1	2	2	1	3	3	2	5	5	3	1	5	20	2	3	4.9	3.7	1	1	3	2	1	2	2
193	Olo	Lata	Santa Cruz	1	2	3	2	3	3	2	5	5	3	2	5	20	3	4	5.2	4.4	1	3	4	2	1	2	
194	MK2		Makira	1	2	3	2	2	3	1	2	3	3	1	6	20	2	3	4.6	3.8	1	1	4	2	1	2	1
195	82 T (AVRDC)			1	2	3	3	2	2	1	4	4	2	2	6	10	1	4	5.0	4.0	1	1	3	2	1	1	
196	MK 3		Makira	2	2	3	2	3	2	2	4	4	3	2		20	2	3	5.0	4.2	1	3	4	2	1	2	1
197	Latu 2	Dala	Malaita	1	2	3	2	1	3	1	1	1	2	1	1	14	3	2	4.5	3.7	1	1	2	2	1	2	1
199	Tutua 2	Sasamunga	Choiseul	1	2	3	2	1	1	1	3	1	3	1	2	20	2	3	4.6	3.9	1	1	4	2	1	2	1
200	Aleke 2	Sasamunga	Choiseul	1	2	3	2	3	3	0	2	4	2	1	6	20	3	3	4.5	3.5	1	3	3	2	1	2	1
201	Benekevu	Barakoma	Vella La Vella	1	2	3	2	3	3	0	3	4	3	1	6	20	3	3	5.3	4.7	1	3	4	2	1	2	1
202	Kwerefaka	Dala	Malaita	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.3	4.0	1	1	3	2	1	1	1
203	Fafalolo	Dala	Malaita	1	2	3	2	3	1	2	3	5	3	2	2	10	4	3	4.7	3.8	1	3	4	2	1	2	1
204	Kwaio	Dala	Malaita	1	2	3	2	3	2	0	2	3	3	2	6	20	0										
205	Baolo	Dala	Malaita	1	2	3	3	3	2	0	2	3	3	2	6	20	2	3	4.5	4.1	1	2	3	5	1	1	

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
206	Three Months		Guadalcanal	1	2	3	2	1	0	2	1	2	2	1	7	20	2	3	4.5	3.8	1	1	3	2	1	1	1
207	Poinairavu		Guadalcanal	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.3	4.1	1	1	3	2	1	1	1
208	Uvigai 2	Boliu	Guadalcanal	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.3	4.3	1	1	3	2	1	1	1
209	Dingale (W)		Malaita	1	2	3	2	2	3	2	3	3	3	1	5	30	3	3	5.3	4.1	1	1	3	2	1	1	1
210	Santa Cruz		Malaita	1	2	3	2	2	0	1	2	3	3	1	2	20	2	3	4.5	3.8	1	3	3	2	1	2	1
211	Gina 4	Dala	Malaita	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	3.5	1	1	3	2	1	1	1
212	Western 2	Dala	Malaita	1	2	3	2	3	3	2	5	4	3	1	6	20	3	2	4.9	4.1	1	3	3	2	1	2	2
213	Dingale (R)		Malaita	1	2	3	2	2	2	2	3	5	3	1	6	10	3	3	4.7	4.2	1	3	3	2	1	3	2
214	WV 5		Vella La Vella	1	2	3	2	1	1	0	1	2	3	1	1	20	3	3	4.7	4.1	1	3	4	5	1	1	1
215	Varatara 2	Sasamunga	Choiseul	1	2	3	2	3	3	0	3	4	3	1	1	20	3	3	4.7	4.3	1	3	4	2	1	2	2
216	MK 2		Makira	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	4.0	1	1	3	2	1	1	1
217	Waikiru 2		Makira	1	2	3	2	3	3	0	3	5	3	2	6	40	4	2	4.8	4.2	2	2	3	2	1	1	2
218	Shamuel 2	Dala	Malaita	1	2	3	2	5	1	3	3	5	1	2	6	20	3	3	5.0	4.3	1	2	3	2	1	2	1
219	Bulumae	Dala	Malaita	1	2	3	2	3	3	0	4	5	3	1	6	24	3										
220	MK 10		Makira	1	2	3	2	1	2	3	1	5	3	1	5	20	3	3	4.8	3.8	1	1	3	2	1	1	1
221	71 T (AVRDC)			1	2	3	2	3	3	1	5	4	3	1	1	20	0										
222	82 B (AVRDC)			1	2	3	2	3	3	1	5	4	3	1	1	20	3	4	4.6	3.9	1	3	3	2	1	2	3
223	Yandina 1	Yandina	Russell	1	2	3	2	5	1	2	5	5	2	3	2	40	2	3	5.4	4.4	1	2	3	5	1	1	2
224	Sugar	Yandina	Russell	1	2	3	3	2	0	2	4	4	3	1	7	20	3	3	5.1	4.0	1	3	3	2	1	2	1
225	Isabel	Aligegeo	Malaita	1	2	3	2	3	3	0	5	4	3	1	1	20	2	3	4.5	3.5	1	3	4	2	2	2	2
226	Market 1	Aligegeo	Malaita	1	2	3	2	3	3	0	3	5	3	2	6	40	4	2	4.8	4.2	2	2	3	2	1	1	2
227	Three Months 3		Guadalcanal	1	2	3	2	1	1	2	2	1	3	1	5	10	3	3	4.7	3.6	1	1	4	2	2	1	1
228	Kira Kira 1	Kira Kira	Makira	1	2	3	2	2	2	2	3	5	2	1	6	20	0										
229	Kira Kira 2	Kira Kira	Makira	1	2	3	2	2	1	1	3	5	3	1	1	10	2	3	5.0	4.2	2	3	3	2	2	1	1
230	Kira Kira 3	Kira Kira	Makira	1	2	3	2	2	2	0	2	3	3	1	2	10	3	3	4.3	3.6	1	1	3	2	1	1	2
231	Kira Kira 4	Kira Kira	Makira	1	2	3	2	1	1	2	3	4	3	1	5	20	3	3	5.1	4.8	1	3	3	2	1	2	1
232	Kira Kira 5	Kira Kira	Makira	1	2	3	2	1	1	2	1	3	2	1	7	20	3	3	4.5	3.8	1	1	3	2	1	1	1
233	Kira Kira 6	Kira Kira	Makira	1	2	3	2	3	2	2	3	4	3	1	5	20	3	3	5.2	4.8	1	3	3	2	1	2	1
234	Kira Kira 7	Kira Kira	Makira	1	2	3	2	3	2	1	5	4	3	2	1	20	3	2	4.6	3.6	1	2	3	2	1	1	2
235	Kira Kira 8	Kira Kira	Makira	1	2	3	2	3	3	0	5	4	3	1	1	20	2	3	4.7	3.8	1	3	4	2	2	2	2
236	Nagovisi	Aleana	Shortlands	1	2	3	2	5	1	3	3	5	1	2	6	20	3	3	4.9	4.0	1	2	3	2	1	2	1
237	Taiwan	Maleai	Shortlands	1	2	3	2	3	1	1	5	5	3	1	2	10	1	3	5.4	4.2	1	1	2	2	1	2	2
238	Tahiti	Maleai	Shortlands	1	2	3	2	4	3	2	4	5	3	1	5	40	3	3	5.1	4.0	1	2	3	2	1	1	2
239	Ranogga	Kamale'ae	Shortlands	1	2	3	2	4	3	2	4	5	3	1	7	40	3	3	5.1	4.0	1	2	3	2	1	1	2
240	Gizo 2	Toumoa	Shortlands	1	2	3	2	1	2	1	3	4	2	1	2	40	3	3	4.4	3.3	1	1	4	2	1	2	1

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
241	Waga	Natagera	Santa Anna	1	2	3	2	3	2	0	1	3	3	1	6	20	3	4	4.7	4.2	2	3	4	2	1	1	1
242	Sivai Sivai	Nila	Shortlands	1	2	3	2	1	3	0	2	3	3	1	1	20	3	2	4.4	3.6	1	1	4	5	1	1	1
243	Sisio	Nuku	Shortlands	1	2	3	2	1	1	1	3	1	3	1	6	20	3	4	4.9	4.3	1	3	3	2	2	1	
244	Unknown		Shortlands	2	2	3	2	3	1	2	4	1	2	1	6	20	3	3	4.7	4.2	1	1	3	2	1	3	2
245	Ranogga 2	Kamale'ae	Shortlands	1	2	3	2	3	3	2	2	4	2	1	7	10	3	2	4.8	4.1	2	1	4	3	1	3	1
246	Nagovisi	Pirumari	Shortlands	1	2	3	2	1	2	2	5	1	3	2	5	10	3	3	4.8	4.2	1	3	4	2	1	2	3
247	Two Months	Mono	Mono	1	2	3	2	1	2	2	2	1	2	1	5	10	3	3	4.7	3.7	1	1	4	2	1	1	1
248	Kapiaka 1	Kapiaka	Shortlands	1	2	3	2	1	3	0	2	3	3	1	1	20	3	2	4.6	4.2	1	1	4	5	1	1	1
249	Kapiaka 2	Kapiaka	Shortlands	1	2	3	3	3	3	2	3	5	2	1	2	20	2	3	5.0	4.0	1	1	3	2	1	2	1
250	Kapiaka	Kapiaka	Shortlands	1	2	3	2	3	3	1	5	4	3	2	7	30	3	3	5.1	4.3	1	3	3	5	1	2	2
251	Alu 3		Shortlands	1	2	3	2	4	3	1	4	5	2	1	2	20	1	4	5.0	4.1	1	4	3	2	1	1	
252	Alu 4		Shortlands	1	2	3	2	2	3	2	3	3	3	1	2	20	3	3	5.5	4.4	1	1	3	2	1	1	
253	Alu 5		Shortlands	1	2	3	2	3	2	3	4	1	3	1	6	10	2	3	4.8	4.0	1	2	3	5	1	1	1
254	Pelebo	Nemboi	Santa Cruz	1	2	3	2	3	3	2	3	5	3	1	6	10	3	3	4.5	3.7	1	1	3	2	1	2	1
255	Gina	Otelo	Reef	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.4	3.5	1	1	3	2	1	1	1
256	Ineo	Neboi	Santa Cruz	1	2	3	2	3	2	2	2	5	3	1	6	10	3	3	4.8	3.9	1	1	3	2	1	1	1
257	Jack	Neboi	Santa Cruz	1	2	3	3	2	2	0	2	3	3	1	2	10	2	3	4.8	4.1	1	1	3	2	1	1	2
258	Wan Man Keipoki	Neboi	Santa Cruz	1	2	3	2	4	1	1	2	5	2	1	7	20	3	3	4.6	3.7	2	3	2	2	1	3	1
259	Mena	Neboi	Santa Cruz	1	2	3	2	4	2	2	3	5	3	2	6	20	3	4	5.3	4.6	1	3	4	2	1	2	1
260	Mama Hugo	Neboi	Santa Cruz	1	2	3	2	2	1	1	4	5	2	2	7	10	3	4	5.3	4.4	1	3	4	2	1	1	1
261	Inakipu	Neboi	Santa Cruz	1	2	3	2	4	0	1	3	5	3	2	2	10	3	3	4.7	3.8	1	3	4	2	1	2	1
262	Stima	Neboi	Santa Cruz	1	2	3	3	2	2	0	2	3	3	1	7	20	2	3	4.5	3.9	1	1	3	2	1	1	1
263	Wan Manes Keipoki	Neboi	Santa Cruz	1	2	3	2	2	2	0	2	3	3	1	2	10	2	3	4.7	4.0	1	1	3	2	1	1	1
264	Awe	Neboi	Santa Cruz	1	2	3	3	2	2	2	1	3	3	1	3	20	3	2	4.9	4.4	1	1	3	2	1	2	1
265	Tirpur	Neboi	Santa Cruz	1	2	3	2	2	0	0	1	5	3	1	6	20	2	3	4.6	3.8	1	1	3	5	1	1	1
266	Iava	Neboi	Santa Cruz	1	2	3	2	3	2	2	3	5	3	2	6	10	3	3	5.2	4.2	1	1	3	2	1	2	1
267	Unknown	Otelo	Reefs	1	2	3	2	3	3	0	3	5	3	2	6	40	4	2	4.7	4.2	2	2	3	2	1	1	2
268	Reefs Jimi	Otelo	Reefs	1	2	3	2	1	2	2	2	2	3	1	5	20	2	2	4.8	3.6	1	1	3	5	1	1	1
269	Mina Nupani	Otelo	Reefs	1	2	3	2	2	0	1	2	3	3	1	6	10	2	3	4.5	3.8	1	1	3	2	1	1	
270	Lolobule	Otelo	Reefs	1	2	3	2	2	0	0	1	5	3	1	1	20	2	3	4.9	3.8	1	1	3	5	1	1	1
271	Napeuale	Otelo	Reefs	1	2	3	2	1	2	2	1	3	3	2	5	10	3	4	4.7	3.9	1	1	3	2	1	2	1
272	Vanikoro 3		Vanikoro	1	2	3	2	1	2	1	4	6	2	1	6	10	3	3	4.8	4.2	1	3	3	2	1	1	1
273	Mina Pango	Otelo	Reefs	1	2	3	2	2	0	0	1	5	3	1	6	20	2	3	4.7	3.8	1	1	3	5	1	1	1
274	Unknown	Otelo	Reefs	1	2	3	2	3	1	2	3	4	2	1	6	10	3	4	4.5	3.8	1	3	3	2	1	1	1
275	Ngiriare	Otelo	Reefs	1	2	3	2	1	2	2	2	4	3	1	5	20	2	2	4.6	3.8	1	1	3	5	1	1	1
276	Bugotu 2	Otelo	Reefs	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.5	3.4	1	1	3	2	1	1	1

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
277	Unknown	Otelo	Reef	1	2	3	2	2	1	2	2	3	3	1	5	10	2	4	4.9	4.0	1	1	3	2	1	2	1
278	Jimi	Venga	Santa Cruz	1	2	3	2	2	0	1	2	3	3	1	2	20	2	3	4.8	3.9	1	3	3	2	1	2	1
279	Unknown	Otelo	Reef	1	2	3	2	2	1	0	3	5	3	1	2	20	3	3	5.0	4.4	1	1	3	2	1	1	2
280	Utupua 1	Nembao	Utupua	1	2	3	2	2	3	0	2	5	3	1	6	10	1	3	4.8	3.9	1	1	4	2	2	1	3
281	Utupua 2	Nembao	Utupua	1	2	3	2	2	0	0	1	5	3	1	1	20	2	3	4.8	4.3	1	1	3	5	1	1	
282	Vanikoro		Vanikoro	1	2	3	2	1	2	2	2	1	2	1	6	10	3	3	4.7	4.1	1	1	4	2	1	1	1
283	Vanikoro 2		Vanikoro	1	2	3	2	3	3	0	3	5	3	2	6	40	4	2	4.9	4.3	2	2	3	2	1	1	2
284	Unknown	Otelo	Reef	1	2	3	2	1	1	1	1	1	1	1	2	20	3	3	4.5	3.5	1	1	3	2	1	1	1
285	Anuta 1	Anuta	Anuta	1	2	3	2	3	3	2	5	5	2	2	6	10	3	3	5.2	4.6	2	1	2	2	1	1	3
286	Anuta 2	Anuta	Anuta	1	2	3	3	1	3	0	2	3	3	1	6	10	2	3	4.7	3.8	2	1	3	2	2	1	1
287	Tikopia 1	Tikopia	Tikopia	1	2	3	2	4	1	2	5	5	2	2	5	20	4	4	5.2	4.3	2	3	3	2	1	2	2
288	Tikopia 2	Tikopia	Tikopia	1	2	3	2	2	3	1	4	5	3	2	1	20	3	3	4.9	4.2	1	3	3	2	1	1	1
289	Utupua	Nembao	Utupua	1	2	3	2	3	3	3	5	4	2	2	2	20	3	2	4.5	3.6	1	2	3	2	1	1	1
290	Anuta 3	Anuta	Anuta	1	2	3	2	3	3	0	3	5	3	2	6	40	4	2	4.8	4.1	1	1	3	2	1	1	1
291	Anuta 4	Anuta	Anuta	1	2	3	2	1	3	0	2	3	3	1	6	10	2	3	4.5	3.8	1	1	3	2	2	1	
292	Tikopia 3	Tikopia	Tikopia	1	2	3	2	2	1	1	3	5	3	1	3	10	3	3	5.0	4.2	2	3	3	2	2	1	1
293	Munda	Okea	Guadalcanal	1	2	3	2	3	1	2	1	4	3	1	6	20	3	3	5.2	4.6	2	1	4	2	1	3	1
294	Okea Three Months	Okea	Guadalcanal	1	2	3	2	1	1	2	5	1	3	1	7	20	3	3	4.9	4.4	1	1	3	5	1	1	1
295	Unknown	Okea	Guadalcanal	1	2	3	2	4	2	2	5	4	3	1	7	30	3	3	5.2	4.5	1	3	3	3	1	3	3
296	Oliver	Okea	Guadalcanal	1	2	3	2	2	3	0	2	5	3	1	6	10	1	3	4.6	3.9	1	1	4	2	2	1	1
297	CH 1	Taro	Choiseul	1	2	3	2	2	3	0	2	5	3	1	6	10	3	3	5.1	4.3	1	1	4	2	2	1	
298	CH 2	Taro	Choiseul	1	2	3	2	1	2	1	3	4	2	1	2	40	3	3	4.5	3.7	1	1	4	2	1	2	1
299	CH 3	Taro	Choiseul	1	2	3	2	2	3	0	2	5	3	1	6	10	3	3	5.0	3.8	1	1	4	2	2	1	
300	CH 4	Taro	Choiseul	1	2	3	3	3	0	3	3	4	1	1	7	20	3	3	5.0	4.2	1	1	3	2	1	2	1
301	CH 5	Taro	Choiseul	1	2	3	3	3	2	1	2	3	3	2	6	20	2	3	4.6	4.0	1	4	3	5	1	1	
302	CH 6	Taro	Choiseul	1	2	3	2	1	1	2	1	3	2	1	1	20	2	3	4.5	3.7	1	1	3	2	1	1	
303	CH 7	Taro	Choiseul	1	2	3	2	2	3	0	2	5	3	1	6	10	2	3	5.0	4.2	1	1	4	2	2	1	1
304	CH 8	Taro	Choiseul	1	2	3	2	1	2	1	3	4	2	1	7	30	3	2	4.6	3.8	1	1	3	2	2	1	1
305	Anny	Otelo	Reef	1	2	3	2	1	3	0	1	4	2	1	1	10	4	3	5.0	4.0	2	1	3	2	1	1	2
306	One Month	Sasamunga	Choiseul	2	2	3	2	3	3	2	5	5	3	2	7	20	4	3	4.5	3.7	1	3	3	2	1	2	
307	TIS 2498 (IITA)			1	2	3	2	1	2	2	2	1	3	1	5	10	2	2	5.4	4.0	2	1	3	2	2	2	
308	TIB 10 (IITA)			1	2	3	2	3	1	1	2	1	2	2	5	20	3	2	4.8	4.0	2	2	3	2	1	2	
309	Unknown			1	2	3	2	3	3	0	2	1	2	1	1	23	2	2	5.0	3.9	1	1	3	2	1	2	1
310	TIS 1499 (IITA)			1	2	3	2	1	3	2	2	5	2	1	6	10	0										
311	TIS 5081 (IITA)			1	2	3	1	1	1	2	2	2	1	1	1	23	3	3	4.7	3.8	1	1	3	2	1	3	1

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
312	TIS 3017 (IITA)			1	2	3	2	3	0	1	2	4	2	2	6	10	2	3	5.0	4.0	1	1	3	2	1	3	1
313	TIB 4 (IITA)			1	2	3	2	3	1	3	2	5	2	2	3	30	2	3	5.6	4.2	1	1	3	5	1	3	1
314	TIS 2525 (IITA)			1	2	3	2	3	0	1	5	4	2	2	7	40	2	3	4.2	3.5	1	2	4	2	1	1	2
315	TIS 2534 (IITA)			1	2	3	2	3	2	1	4	1	2	2	5	10	0										
316	TIS 3030 (IITA)			1	2	3	2	5	0	2	2	5	2	2	5	20	3	3	5.5	4.3	1	1	3	2	1	3	1
317	TIS 2532 (IITA)			1	2	3	2	3	2	1	5	4	2	2	6	10	0										
318	TIS 5270 (IITA)			1	2	3	2	1	1	2	2	1	2	1	6	30	2	2	5.3	4.5	1	1	3	2	2	1	1
319	TIS 5093 (IITA)			1	2	3	1	1	1	2	2	1	1	1	1	20	4	2	4.6	3.8	1	1	4	2	1	3	1
320	TIS 1487 (IITA)			1	2	3	2	3	2	1	2	4	3	2	3	10	0										
321	Mebeli	Alualu	Santa Isabel	1	2	3	2	5	1	0	2	5	3	2	7	20	3	3	5.2	4.6	1	2	3	3	1	1	1
322	Cyclon	Alualu	Santa Isabel	1	2	3	2	5	1	1	2	5	3	3	7	20	2	3	5.5	4.5	1	2	3	3	1	2	1
323	Hefa	Alualu	Santa Isabel	1	2	3	2	3	1	2	5	5	3	2			2	3	5.3	4.9	1	3	3	3	1	2	1
324	Three Months	Biluro	Santa Isabel	1	2	3	2	1	1	3	5	5	3	1			2	3	4.6	3.8	1	2	3	4	1	1	
325	Rakeli	Buala	Santa Isabel	1	2	3	2	1	3	1	3	4	3	1			1	3	5.0	4.5	1	1	3	2	1	2	
326	Tatamba	Alualu	Santa Isabel	1	2	3	2	3	1	2	5	4	3	2			3	3	5.3	4.7	1	3	3	2	1	2	2
327	Gnakra	Alualu	Santa Isabel	1	2	3	2	1	1	2	5	5	3	1	7	20	1	3	5.0	4.3	2	1	3	2	2	2	2
328	Vorit	Jejevo	Santa Isabel	2	2	3	2	1	0	2	5	3	3	1	6	10	1	3	4.3	4.1	1	2	3	5	2	2	2
329	Pero Kokorako	Alualu	Santa Isabel	1	2	3	3	1	0	3	5	5	3	1	7	20	2	3	5.0	4.0	2	2	3	4	1	2	2
330	Malaita	Biluro	Santa Isabel	1	2	3	2	2	1	2	5	5	3	1	7	20	3	3	5.6	5.3	1	2	3	4	1	1	3
331	Sivu	Jejevo	Santa Isabel	1	2	3	2	2	1	2	5	5	3	1	7	20	3	3	5.0	4.5	1	2	3	4	1	1	3
332	Uhuri	Buala	Santa Isabel	1	2	3	2	1	2	3	5	3	3	1	6	10	1	3	4.8	4.0	1	2	3	2	1	2	2
333	C.D.C.	Matatoku	Santa Isabel	1	2	2	2	1	1	3	1	1	3	1	5	20	1	3	4.5	4.2	1	1	3	5	1	2	1
334	Japan	Jejevo	Santa Isabel	1	1	1	2	1	1	3	3	1	3	1	7	20	2	3	4.3	4.2	1	1	3	5	1	1	1
335	Ririhi	Titiro	Santa Isabel	1	1	1	2	1	0	3	3	3	3	1	7	20	2	3	4.4	4.0	2	1	3	3	1	1	1
336	Sirongo	Biluro	Santa Isabel	1	2	3	2	1	1	2	2	5	3	1	7	20	2	3	5.6	4.8	1	2	3	5	2	1	1
337	Mamahe	Matatoku	Santa Isabel	1	2	3	2	1	0	2	2	3	3	1	7	20	2	3	5.1	4.3	1	2	3	2	1	2	1
338	Kokoti	Alualu	Santa Isabel	1	2	3	2	1	2	2	2	3	3	1	6	20	2	3	5.5	4.1	2	1	3	2	1	1	
339	Tatamba	Jejevo	Santa Isabel	1	2	3	2	1	3	2	2	3	3	1	5	40	0	2	4.0	3.9	2	1	3	2	2	2	1
340	Jarihana	Tatamba	Santa Isabel	1	2	3	2	1	1	2	2	5	3	1	7	10	3	3	5.0	4.0	2	2	3	5	1	2	1
341	Kotutena	Buala	Santa Isabel	1	2	3	2	5	2	2	2	5	3	1	7	10	2	3	4.9	3.9	1	1	3	3	1	2	1
342	Rohasi	Buala	Santa Isabel	1	2	3	2	5	1	2	3	5	3	1	2	10	3	3	4.6	4.2	1	3	3	2	1	2	1
343	Nanakra	Matatoku	Santa Isabel	1	2	3	2	2	1	2	2	5	3	1			0										
344	Doklu	Matatoku	Santa Isabel	1	2	3	2	1	1	2	2	3	3	1	7	10	3	3	4.5	4.1	1	2	3	5	1	2	1
345	Sivu	Biluro	Santa Isabel	1	2	3	2	1	0	1	3	3	3	1	2	20	2	3	4.8	4.2	1	3	3	5	1	2	1
346	Three Months	Biluro	Santa Isabel	1	2	3	2	1	0	2	1	1	3	1	7	20	3	3	4.2	3.8	1	2	3	2	1	2	1
347	Khake Nhide	Biluro	Santa Isabel	1	2	3	2	1	1	1	1	1	3	1	7	20	2	3	5.2	4.1	1	1	3	2	2	2	

Table 29 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
348	Hovikoilo	Matatoku	Santa Isabel	1	2	3	2	1	1	1	3	1	3	1	7	20	2	2	5.0	4.5	1	1	3	2	1	1	
349	Vaka	Matatoku	Santa Isabel	1	2	3	2	1	1	1	1	1	3	1	2	20	2	2	4.4	3.8	2	1	3	2	1	1	
350	Bia	Jejevo	Santa Isabel	1	2	3	2	1	1	0	1	1	3	1	2	20	2	2	4.9	4.5	2	3	3	2	2	3	
351	Tangarare	Kamaosi (Prov.Sec.Sch.)	Santa Isabel	1	2	3	2	1	0	0	1	1	3	1	2	20	2	3	5.0	4.4	1	1	3	2	1	1	
352	Three Months	Buala	Santa Isabel	1	2	3	2	1	1	1	1	1	3	1	2	20	2	3	4.5	4.1	1	1	3	5	1	2	
353	Laena	Matatoku	Santa Isabel	1	2	3	2	2	1	1	1	5	4	1	7	20	3	3	4.6	3.9	1	1	3	5	1	1	
354	Naefi	Alualu	Santa Isabel	1	2	3	2	1	3	1	1	3	3	1	7	20	2	4	4.6	4.0	2	1	3	3	2	1	
355	Sivu	Alualu	Santa Isabel	1	2	3	2	1	0	1	1	3	3	1	7	20	3	3	4.5	3.7	1	1	3	3	2	1	
356	Daneli	Biluro	Santa Isabel	1	2	3	2	1	0	1	1	3	3	1	7	20	3	3	4.7	3.9	1	1	3	5	2	1	
357	Kukuku	Matatoku	Santa Isabel	1	2	3	2	2	2	1	3	3	3	1	7	20	3	3	5.1	4.5	2	3	3	5	1	1	
358	Pahena	Buala	Santa Isabel	1	2	3	2	4	3	1	1	3	3	2	7	20	2	3	5.2	4.4	1	2	3	2	1	3	
359	Naefi 2	Alualu	Santa Isabel	1	2	3	2	1	2	1	4	4	3	1	2	10	3	4	4.3	3.9	2	1	3	2	1	2	

Table 30

DESCRIPTORS FOR YAM (DIOSCOREA ALATA) VARIETIES OF SOLOMON ISLANDS

	Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
6	Boboruka	Okea region	Guadalcanal	1	1	1	1	2	2	1	1		1	1	1	1	1					4				
7	Tauwopi	Okea region	Guadalcanal	1	2	1	1	2	2	1	1		1	1	2	1	1					2	4			
8	Sainamu Mane	Okea region	Guadalcanal	1	2	1	1	2	2	1	1		1	1	1	1	1					2				
16	Uvi Gaiulu	Okea region	Guadalcanal	1	2	2	1a	2			2		1	2c	2	1	1					6	4			
17	Koru	Okea region	Guadalcanal	1	1	1	1	2	2	1	1		1	1	2	1	1					1	7			
32	Tauwopi	Okea region	Guadalcanal	1	2	1	1	2			2		1	1	2	1	1						4			
40	Tahasi	Hereniesi	Malaita	1	2	2	1c	2	2	1	2		2	2c	2	2	2					1				Y
42	Walisiota	Hereniesi	Malaita	1	2	2	1c	2	2	1	3		-	2c	2	1	2					1	10			Y
43	Kapoahopau	Hereniesi	Malaita	1	2	1	1	2	1	1	1		1	1	2	1	1					1	6			Y
44	Wakele	Hereniesi	Malaita	1	1	1	1	2	1	2	1		1	1	1	1	1					2	17			Y
45	Suitoro	Hereniesi	Malaita	1	2	2	1c	2			3		-	3	2	3	2					2	11			N
46	Koruepu	Hereniesi	Malaita	1	2	2	1c	2			3		-	3	2	3	2					5	8			N
47	Uhipo 1	Hereniesi	Malaita	1	1	1	1	2	2	1	1		1	1	1	1	1					1				N
48	Afa'ae	Hereniesi	Malaita	1	2	1	1c	1	1	2	1		2	1c	1	1	1					6				
49	Kawere	Hereniesi	Malaita	1	1	1	1	2	2	1	1		1	1	2	1	1					1				N
50	Araraniheu	Hereniesi	Malaita	1	1	1	1	2	2	1	1		1	1	1	1	1					1				N
51	Inemauri	Hereniesi	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
53	Toma	Hereniesi	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
54	Araraniheu	Hereniesi	Malaita	1	1	1	1	2	1	1	1		1	1	1	1	1					1	15			N
55	Toma	Hure	Malaita	1	1	1	1	2	2	1	2		1	1	2	1	1					1	11			N
56	Wairaha	Hure	Malaita	1	1	1	1	2	2	1	1		1	1	1	1	1					1				N
57	Warikamo	Hure	Malaita	1	1	2	1	2	2	1	1		1	1	1	1	1					1	17			N
58	Wai	Hure	Malaita	1	1	1	1	2	1	2	1		1	1	1	1	1					2				N
58	Wai	Hure	Malaita	1	2	2	1b	2			2		1	1b	2	1	1					2	15			N
59	Hutohuto Mane	Hure	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
59	Hutohuto Mane	Hure	Malaita	1	1	1	1	2	2	1	2		1	1	2	1	1					1	11			N
60	Hutohuto Keni	Hure	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				
61	Naoisiki	Hure	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
63b				1	1	1	1	1	2	1	1		1	1	1	1	1					1	11			
65	Samoa	Hepea	Malaita	1	3	2	1c	2	3	2	3		-	3	2	3	2					6	15			N
66	Hutohuto Short	Hepea	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
67	Kei	Hepea	Malaita	1	1	1	1	2	1	1	1		1	1	1	1	1					1				N
68	Makakola	Hepea	Malaita						1	1	2		1	1	1	1	1					6				N

* For definitions of descriptor codes see p. 36.

Table 30 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
69	Karoha	Hepea	Malaita	2	1	1	1	2	1	1	1		1	1	2	1	1					1				N
70	Pansa	Hepea	Malaita	1	2	2	1c	2	2	1	3		–	2c	2	1	2									Y
71	Kapoa	Hepea	Malaita	1	2	2	1	2	2	1	2		2	2b	2	1	1					1				N
72	Hutohuto	Karu'u	Malaita	1	2	2	1c	2	2	1	2		2	2c	2	2	1					1				N
73	Kei	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1b	2	1	1					1	15			N
74	Karu'u B	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				Y
75	Karu'u C	Karu'u	Malaita	1	2	2	1c	2	3	2	2		2	2c	2	2	1					1				Y
76	Karu'u D	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	1	1	1					2				Y
77	Karu'u E	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				Y
78	Kamo	Karu'u	Malaita	1	1	2	1	2	1	1	2		2	1	2	1	1					1				Y
79	Hutohuto Mane	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				Y
80	Karoha	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				Y
81	Hutohuto	Karu'u	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				Y
82	Toma	Karu'u	Malaita	1	1	1	1	2			1		1	1	2	1	1					1				N
83	Urou	Karu'u	Malaita	1	2	1	1	2	2	1	2		1	1	1	1	1									N
84	Uhipo	Karu'u	Malaita	1	2	2	1c	2	2	1	2		2	2c	2	2	1					1				N
85	Walopa	Karu'u	Malaita	1	2	1	1	2			2		1	1	2	1	1					1				N
86	Ufi Nitete	Walande	Malaita	1	1	2	1	2	2	1	2		1	1	1	1	1					1				N
88	Kai Atabi	Walande	Malaita	1	3	2	1c	2	2	1	3		–	3	2	2	2					6				N
89	Tafi	Walande	Malaita	2	1	1	1c	2	1	2	3		–	2c	2	1	2					6				N
90	Luka Tekwa	Walande	Malaita	1	1	1	1a	2	1	2	2		2	2a	2	1	1					2				Y
91	Talabuli	Walande	Malaita	1	2	1	1	2	1	1	2		1	1	2	1	1					1				N
92	Luka Teu	Walande	Malaita	1	2	2	1b	2	2	1	2		1	1b	2	1	2					1				Y
93	Toki	Walande	Malaita	1	1	1	1	2	2	1	1		2	1	2	1	1					1				N
94	Aasikare	Walande	Malaita	1	2	1	1	2			2		1	1	2	1	1					1				N
95	Loloawa	Walande	Malaita	1	1	1	1	2	1	1	2		1	1	2	1	1					1				N
96	Sao	Walande	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					1				N
97	Walosiota	Walande	Malaita	1	2	2	1c	2	2	1	2		2	1c	2	1	2					2	17			N
98	Dukabaosi	Walande	Malaita	1	2	2	1a	2	3	2	2		2	1a	2	1	1					1				Y
99	Gamo	Walande	Malaita	1	1	2	1	2	2	1	2		2	1	2	1	1					1				Y
100	Lisu	Walande	Malaita						3	2	2		2	1c	2	1	1					6				Y
101	Ufi Fou	Walande	Malaita	1	2	2	1a	2	2	1	2		2	1a	2	2	1					1				N
102	Joses	Walande	Malaita	1	1	1	1	2	2	1	1		1	1	2	1	1					5	12			Y
103	Kei	Walande	Malaita	1	1	1	1	2	1	1	1		2	1	2	1	1					1				Y
104	Luka Reba	Walande	Malaita	1	2	2	1b	2	2	1	2		1	1b	2	1	2					1				Y

Table 30 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
105	Kaitewea	Walande	Malaita	1	1	1	1	2	1	1	1		1	1	2	1	1					2	3			N
106	Mepona	Vango	Nendo	2	1	1	1	2	1	2	3		–	1	1	1	1					1	11			N
107	Tokope	Vango	Nendo	1	2	2	1c	2	3	2	3		–	3	2	3	2					5	8			N
109	Saene 1	Vango	Nendo	1	1	1	1	2	2	1	1		1	1	1	1	1					1				Y
110	Tema	Vango	Nendo	1	2	2	1b	2			2		2	2b	2	1	1					4				Y
111	Nome	Vango	Nendo	1	2	2	1c	2			2		1	2c	2	2	1					2	15			N
112	Pengani	Vango	Nendo	1	2	1	1	2			2		1	1	1	1	1					1	11			N
113	Saene	Vango	Nendo	1	3	2	1c	2	2	1	3		–	1c	2	2	1					6	11			N
114	Reef	Vango	Nendo	1	1	1	1c	2	2	2	3		–	2c	1	2	2					7	8			N
115	Itagi	Vango	Nendo	1	1	1	1	2	2	1	1		1	1	1	1	1					2	9			N
116	Menoa	Vango	Nendo	1	2	2	1c	2			2		1	2c	2	2	1					2	15			N
117	Nopalu	Vango	Nendo	1	2	2	1c	1	3	1	3		–	1c	2	2	1					6				N
119	Leamalue	Vango	Nendo						2	1	2		1	1	2	2	1					6				N
120	Pengani Red	Vango	Nendo	1	2	2	1c	2	2	1	2		2	1c	2	1	2					3	7			N
121	Nibiangnoa	Vango	Nendo	1	1	1	1	2	2	1	3		–	1	2	1	1					1	8			N
122	Tema Long	Vango	Nendo	1	2	2	1c	2	2	1	2		2	1c	2	1	2					2	15			Y
123b				2	3	1	1c	2	1	2	3		–	3	2	3	2					2	15			
124	Leik Nubia No	Lata Market	Nendo	1	1	1	1	1	1	1	1		1	1	2	1	1					1				N
125	Na'aga	Lata Market	Nendo	1	2	2	1b	2	2	1	2		2	2b	2	1	1					4				Y
126a				1	2	2	1c	2	2	1	2		2	2c	2							1				
127	Leik Venirgi	Lata Market	Nendo	1	2	1	1	2	2	1	1		1	1	1	1	1					1				N
128	Tema	Lata Market	Nendo	1	2	2	1b	2	2	1	2		1	1b	2	1	2					1				Y
130	Na'aga	Lata Market	Nendo	1	1	1	1	1	1	1	1		1	1	2	1	1					1				N
132	Tokopia	Neboi	Nendo	1	2	1	1	2			1		1	1	2	1	1					1	7			N
133	Nebisop	Neboi	Nendo	1	2	2	1c	2	3	2	2		2	2c	2	2	1					1				Y
134	Nelovla	Neboi	Nendo	1	2	2	1c	2	2	1	2		2	2c	2	2	1					1				N
135	Bishop Keipoki	Neboi	Nendo	1	1	1	1	2	2	1	1		1	1	2	1	1					1				Y
136	Solea	Neboi	Nendo	1	2	1	1	2			3		–	1	2	1	1					6	4			N
137	Toti	Neboi	Nendo	1	2	1	1	2	2	1	1		1	1	1	1	1					1				Y
139b				1	2	2	1c	2			2		2	2c	2	1	1					1	11			
140	Lirpir	Neboi	Nendo	1	2	2	1c	2	2	1	2		2	1c	2	1	1					1	7			N
141	Nailamtagi	Neboi	Nendo	1	2	2	1c	2	2	1	2		1	1	2	1	1					2				N
142	Nokeimbo	Neboi	Nendo	1	3	2	1c	2	3	2	3		–	1c	2	2	1					6				Y
143	Nevlo	Neboi	Nendo	1	2	1	1c	2	2	1	3		–	2c	2	2	2					6				N
144	Tema	Noole Farm	Nendo	1	2	2	1b	2	2	1	2		1	1b	2	1	2					1				Y
145	Nepnelole	Noole Farm	Nendo	2	1	1	1	2	1	2	2		1	1	1	1	1					1				N

Table 30 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
146	Nepnadu	Noole Farm	Nendo	3	3	2	1b	2			2		1	1b	2	1	1					1	15			N
147a				1	2	2	1c	2	2	1	2		2	2c	2	2	1					1				
147b				1	2	2	1c	2	3	2	3		-	2c	2	1	2									
147c				1	2	2	1c	2	3	2	3		-	2c	2	2	2									
148	Nonagu	Noole Farm	Nendo	1	3	1	1c	2	2	2	3		-	3	2	3	2					6				N
149	Lapai	Noole Farm	Nendo	1	1	1	1	2	2	1	1		1	2	2	1	1					1	10			N
151	Tema Long	Noole Farm	Nendo	1	2	2	1a	2	2	1	2		2	2a	2	1	2					1				Y
152	Noloma Keibla R	Noole Farm	Nendo	1	2	2	1b	2	3	2	2		1	1b	2	1	1					1	15			N
153	Noloma Keibla W	Noole Farm	Nendo	1	1	1	1	2			1		1	1	2	1	2					2				N
154	Nemenoli	Noole Farm	Nendo	1	2	2	1c	2	2	1	3		-	2c	2	1	2									N
156a	Kirdalan	Noole Farm	Nendo	1	1	1	1	2	2	1	1		1	1	1	1	1					7	15			Y
156	Nopirtir	Noole Farm	Nendo	1	3	2	1c	2	2	1	3		-	3	2	2	2					1	5			N
157	Una Loara	Otello	Reef	1	2	2	1a	2	2	1	2		2	2a	2	1	1					1				Y
158	U Litu	Otello	Reef	1	3	2	1c	2	2	1	2		2	2c	2	1	2					1				N
159	Ute Peka	Otello	Reef	1	1	2	1	2			2		1	1	2	1	1					1	7			Y
160	Ute Peka	Otello	Reef	2	2	2	2	2	2	1	2		1	1c	2	1	2					2				Y
163	Megla Bapea	Otello	Reef	1	3	2	1c	2	2	1	2		1	2c	2	1	2					2	15			N
165	Una Nalive	Otello	Reef	2	2	1	1a	2	2	1	2		2	2a	2	1	1					1				Y
166	Una Bonave	Otello	Reef	1	2	2	1a	2	2	1	2		2	2a	2	1	1					1				N
167	U Tep	Otello	Reef	1	2	1	1b	2	2	1	2		1	1b	2	1	1					1				Y
168	Santa Cruz	Otello	Reef	2	2	2	2	2	2	1	2		1	1c	2	1	2					2				N
169	Santa Cruz	Otello	Reef	1	2	2	1c	2	3	2	2		2	2c	2	1	2					1				N
170	Bon Galur	Otello	Reef	1	2	2	1c	2	2	1	1		1	1c	2	1	1					6				N
170b	Bon Galur	Otello	Reef	1	2	1	1a	2	2	1	2		2	2a	2	1	1					1				N
171	Oke Opa	Otello	Reef	1	1	1	1	2	2	1	1		1	1	1	1	1					1				N
172	RF 26	Otello	Reef	2	2	2	2	2	2	1	2		1	1c	2	1	2					2				Y
173	Upu Nyigdowe R	Otello	Reef	1	2	2	1c	2	3	2	3		-			3	2					6				N
174	Ake Ebulou	Lipe	Reef	1	2	2	1	2			2		1	1	2	1	2					2	11			N
175	Noubio	Tenabili	Utupua	1	1	1	1	2	1	1	2		1	1	2	1	1					1				N
176	Ageli	Tenabili	Utupua	1	3	2	1c	2			3		-	1c	2	2	1					6	3			Y
179	Kenaio	Tenabili	Utupua	2	2	2	2	2			2		1	1c	2	1	2					2				N
180	Lelevo	Tenabili	Utupua	1	3	2	1c	2	2	1	3		-	1c	2	2	1					6				N
181	Kemomio	Tenabili	Utupua	1	2	1	1c	2	3	2	3		-	1c	2	1	1					5	17			Y
182	Kengaboa	Tenabili	Utupua				2c	1	2	1	1		2	2	2	2	1					6				N
183	Leik Tafo'o	Nambao	Utupua	1	1	1	1	2	2	1	1		1	1	1	1	1					1				N

Table 30 (cont'd)

	Cultivar name	Village	island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
184	Woo Moloe	Buma	Vanikoro	1	2	1	1c	2	3	2	3		–	1c	2	1	1					5				Y
185	Basamanga	Buma	Vanikoro	1	1	1	1	2	2	1	1		1	1	1	1	1					2				Y
186	Unknown 22	Kira Kira	Makira	1	1	1	1	1			1		1	1	1	1	1					1	3			N
187	Unknown 23	Kira Kira	Makira	1	3	2	1c	2	3	2	3		–	2c	2	2	2					1				Y
188	Fisu	Natagera	Santa Ana	1	1	1	1a	2	1		1		1	1a	1	1	1					1	7			N
189				1	3	1	1c	2	2	1	2		1	3	2	2	2					6	7			
193	Gapunasite	Natagera	Santa Ana	1	3	2	1c	2			3		–	1c	2	2	1					6				N
194	Risu A	Natagera	Santa Ana	1	2	2	1c	2	2	1	2		1	1c	2	2	1					1	15			N
195	Risu B	Natagera	Santa Ana	1	2	2	1b	2			2		2	2b	2	1	1					5	11			N
196	Futofuto	Natagera	Santa Ana	1	1	1	1	2	1	1	1		1	1	2	1	1					1				N
197	Aumare	Natagera	Santa Ana	1	1	1	1	1	1	1	1		1	1	1	1	1					1				N
198	Fa'are	Natagera	Santa Ana	1	3	2	2c	2	3	2	3		–	3	2	2	1					1				N
200	Aonaufi	Natagera	Santa Ana	1	2	1	1a	2	2	1	1		1	1	2	1	1					2				N
201	Muri	Hadja	Ulawa	2	1	1	1	2	2	1	1		2	1	2	1	1					2				Y
203	Mamasa	Haimarau	Guadalcanal	1	2	1	1	2	2	1	2		1	1	1	1	1					1	11			N
204	Takai	Haimarau	Guadalcanal	1	3	2	1c	2	3	2	3		–	2c	2	2	1					6				N
206	Vutukeni	Haimarau	Guadalcanal	1	1	1	1	2	1	1	1		1	1	2	1	1					1				N
208	Uvi Rapei	Haimarau	Guadalcanal	1	2	2	1c	2	2	1	2		2	2c	2	2	1					1				N
209	Vuto	Haimarau	Guadalcanal	1	1	1	1	2	1	1	1		1	1	2	1	2					1				N
213	Kere Kebau	Haimarau	Guadalcanal	1	1	1	1	1	1	1	1		1	1	1	1	1					2				N
215	Makakora	Haimarau	Guadalcanal	1	2	2	1c	2	2	1	3		–	2c	2	2	2					1				Y
216	Kula	Haimarau	Guadalcanal	1	1	1	1	2	2	1	3		–	1	2	1	1					1	8			N
217	Kere Kere	Haimarau	Guadalcanal																			2				N
218	Uvi Nimala	Haimarau	Guadalcanal	1	1	1	1	2			1		1	1	2	1	1					3	4			N
219	Bake	Haimarau	Guadalcanal	1	2	2	1c	2	2	1	2		1	1c	2	2	1					1	15			N
220	Makaruka	Haimarau	Guadalcanal	1	2	1	1	2	2	1	3		–	2	1	1	1					6	4			N
223	Bake Sere	Haimarau	Guadalcanal	1	1	2	1b	2			1		1	1c	2	1	1					1	15			N
225	Unknown 25	Haimarau	Guadalcanal	1	2	2	1	2			2		2	2	2	1	1					6				N
228	Bake White	Sukiki	Guadalcanal	1	1	2	1b	2			1		1	1c	2	1	1					1	15			N
230	Samoa	Sukiki	Guadalcanal	1	3	2	1c	2	3	2	3		–	3	2	3	2					6				N
231	Vuto	Sukiki	Guadalcanal	1	1	1	1	2	2	1	1		1	1	2	1	1					1	8			N
232	Baraghede	Sukiki	Guadalcanal	1	1	1	1	2	1	2	1		1	1	1	1	1					1	11			N
233	Babasi	Sukiki	Guadalcanal	2	3	1	2c	2	1	2	3		–	2c	2	1	2					6				N
234	Makakora	Sukiki	Guadalcanal	1	2	1	1c	2	3	2	2		1	2c	2	2	1					6				N
235	Taghotagho	Sukiki	Guadalcanal	1	3	2	1c	2			2		2	2c	2	2	1					1	15			N
236	Doma	Sukiki	Guadalcanal	1	2	2	1c	2	2	1	2		2	2c	2	1	1					2				N

Table 30 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
237	Kai	Marau	Guadalcanal	1	1	1	1	2			1		1	1	2	1	1					3	4			N
239	Tua		Bellona	1	3	1	1c	2	3	1	3		–	3	1	3	1					5	17			
241	Kemuel		Bellona	1	2	2	1c	2	2	1	2		2	2c	2	1	2					2	15			
243	Sigasiga	New Mugava	Bellona	1	3	2	1c	2			3		–	2c	2	2	2					2	15			N
244	Bellona A	New Mugava	Bellona	1	1	1	1	2	1	2	2		2	2c	2	1	1									
245	Bellona B	New Mugava	Bellona	1	2	2	1c	2			3		–	2c	2	1	2					2				Y
246	Muimui	New Mugava	Bellona	2	1	1	1	2	2	1	2		1	1	2	1	1					1				N
247	Maigenuku	New Mugava	Bellona	1	3	2	1c	2	3	2	3		–			2	2					5	15			N
250	Havoa	Koilovala	Ngella	1	2	1	1b	2	2	1	2		1	1b	2	1	1					1				Y
251a	Raga	Koilovala	Ngella	1	1	1	1	1	1	1	3		–	1	1	1	1					6	15			N
251b	Raga	Koilovala	Ngella	1	2	1	1	2	2	1	3		–	2	1	1	1					6	4			N
252	Pedikosi	Koilovala	Ngella	1	2	1	1c	2	3	2	3		–	2c	2	2	2					6				N
253	Meomeo	Koilovala	Ngella	1	2	1	1c	2	3	2	3		–	2c	2	2	2					6				N
254	Raubeta	Koilovala	Ngella	1	3	1	1c	2	2	2	3		–	3	2	3	2						15			N
255	Haga Sagau	Koilovala	Ngella	1	3	1	2c	2	2	1	3		–	2c	2	2	1					1				N
256	Takaivura	Koilovala	Ngella	1	3	2	2c	2	3	2	3		–	3	2	3	2					1				N
257	Sisiravu	Koilovala	Ngella	1	3	2	2c	2	3	2	3		–	3	2	2	1					6				N
258	Bake	Koilovala	Ngella	1	2	1	1c	2	3	2	3		–	2c	2	1	2					6				N
260b				1	2	2	1c	2	2	1	2		2	3	2	2	2					5				
261	Koru	Koilovala	Ngella	2	1	1	1	2	2	1	2		1	1	1	1	1					1				N
262	Koga	Koilovala	Ngella	1	1	1	1	2	1	1	1		1	1	2	1	1					1	7			N
264	Suitoro	Koilovala	Ngella	1	3	2	1c	2	3	2	3		–	3	2	3	2					6				N
265	Launa	Koilovala	Ngella	1	3	1	2c	2	1	2	3		–	3	2	3	2					1				N
266	Putu Putu	Koilovala	Ngella	1	1	1	1	2	1	1	1		1	1	2	1	1					2				N
268	Unknown 31	Koilovala	Ngella	1	3	1	1c	2	2	1	2		1	3	2	3	2					1	4			N
269	Unknown 26	Nukiki	Choiseul	1	1	2	1	2	2	1	1		1	1	2	1	1					2	11			Y
270	Unknown 27	Nukiki	Choiseul	1	1	1	1	2	2	1	1		1	1	2	1	1					1				Y
272	Unknown 29	Nukiki	Choiseul	1	1	1	1	2	1	1	1		1	1	1	1	1					1				N
273	Vena 2	Nukiki	Choiseul	1	2	1	1	2	2	1	2		2	1	2	1	1									Y
274	Tonga	Nukiki	Choiseul	1	3	2	1c	2	2	1	2		1	2c	2	1	2					2				N
275	Muri	Hadja	Ulawa	2	1	2	1	2	2	1	1		2	1	2	1	1					2	17			N
276				1	1	1	1	2			1		1	1b	2	1	1					1				
277				2	1	1	1	2	1	1	1		1	1	2	1	1									
278				1	1	1	1	2	2	1	1		1	1	1	1	1					1				
279				1	3	1	3	1	3	1	3		–	3	1	3	1					5				

Table 30 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
280				1	2	2	1	2	2	1	3		–	1b	2	2	1					6				
281				1	2	2	1b	2	2	1	2		2	1b	2	2	1					1				
282				1	3	2	1c	2	2	1	3		–	2c	2	2	1					6				
283				1	2	2	1c	2	2	1	2		2	2c	2	1	1					2	11			
283				1	2	2	1	2	2	1	1		1	1	2	1	2					2				
284				2	3	2	1c	2	2	1	2		1	1c	2	1	2					2				
285				1	1	1	1	2	2	1	1		2	1	2	1	1					2				
286				1	1	1	1	2	2	1	1		1	1	2	1	1					1	17			
287				1	1	1	1	2			1		1	1	2	1	1					2				
288				1	2	2	1b	2	2	1	2		1	1b	2	1	1					1				
289				1	1	1	1	2	1	2	2		1	1	1	1	1					2				
290				1	1	1	1	2	2	1	1		1	1	2	1	1					1				
291				1	2	2	1b	2	2	1	2		1	2	2	2	1					6				
292				1	1	2	1c	2	2	1	2		2	2c	2	1	1					2				
293				1	1	1	1	2	1	1	1		1	1b	2	1	1					1				
294				1	2	2	1b	2	2	1	2		1	1b	2	1	1					1				
295				1	2	2	2a	2	2	2	2		2	2a	2	1	2					2				
297				2	2	2	2c	2			2		2	2c	2	1	1									
298				1	2	2	1	2			1		1	1	2	1	1					1				
299				1	2	2	1b	2	2	1	2		1	1b	2	1	1					1				
300				1	2	2	1a	2	2	1	2		2	1a	2	1	1					1				
301				1	2	2	1a	2	2	1	2		2	1a	2	3	1					2				
302				1	1	1	1	2	2	1	2		1	1a	2	1	1						1			
303				1	2	2	1c	2	2	1	2		2	2c	2								1			
304				2	2	2	2c	2	2	1	2		2	2c	2	1	1						1			
305				1	1	1	1	2	2	1	1		1		1	1	1						1			
306				1	1	2	1	2	2	1	2		1			1	2									
307				1	3	1	3	2	3	2	3		–	3	1	3	1						5			

Table 31

DESCRIPTORS FOR YAM (DIOSCOREA ESCULENTA) VARIETIES OF SOLOMON ISLANDS

Cultivar name	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1a		4	1	3	1	2	1	4	2	1	2	2	1	1	2	1	1
2		4	1	3	1	1	1	4	2	1	2	2	1		2	1	2
3		1	1	3	1	1	1	4	2	1	2	1	1	1	2	1	1
4		1	1	3	1	1	1	4	2	1	2	1	1	1	2	1	1
6a		4	2	2	2	3	3	4	4	1	3	3	1	1			
6b		1	1	2	1	2	1	4	2	1	2	2	1	4			
7		4	1	3	1	2	1	4	2	1	2	2	1	1	2	1	2
8		4	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
9		4	1	2	1	1	1	4	2	1	3	2	1		2	1	1
11		4	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
14		1	1	2	1	1	1	4	2	1	2	1	1	1	2	1	2
17		1	1	2	1	2	1	3	2	1	3	3	1	2	2	1	4
19		1	1	2	1	1	1	3	2	1	2	2	1	1	2	1	2
21		4	1	2	1	2	1	4	2	1	2	2	1	1	1	1	1
22		4	1	4	1	2	3	4	4	1	3	3	1	3	1	1	2
23		1	1	2	1	2	1	4	2	1	2	2	1	3	2	1	1
24		1	1	2	1	1	1	3	2	1	2	2	1	1	2	1	2
26		4	2	2	2	3	2	4	4	1	3	3	1		2	1	1
27		4	1	2	1	2	1	4	2	1	2	2	1	1	1	1	1
28		4	2	2	1	1	1	4	2	1	2	3	1	1	1	1	2
29		4	1	2	1	2	1	4	2	1	2	2	1	1	2	1	4
30		4	2	2	2	2	2	4	3	1	3	2	1	3	2	2	2
31		4	1	2	1	2	1	4	2	2	3	2	2	3	2	1	4
32		2	2	2	1	2	1	4	2	1	2	2	1	1	2	2	1
33		4	1	2	1	2	1	3	2	1	2	2	1	2	2	1	1
34		4	2	2	1	1	1	4	2	1	1	3	2	1	2	1	2
35		4	1	2	1	2	1	4	2	2	3	2	1	3	2	1	4
36		4	2	2	2	2	2	4	4	1	3	3	1				
37		1	1	2	1	1	1	4	2	1	2	2	1	1	2	2	1
38		4	2	3	1	3	3	4	4	1	3	3	1	3			
40		4	2	2	2	3	3	4	4	1	3	3	1	1	2	1	2
		4	2	4	1	1	1	4	2	1	3	2	1	1	2	1	2

* For definitions of descriptor codes see p. 39

Table 31 (cont'd)

Cultivar name	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
42		2	1	2	1	2	1	4	2	1	2	2	1	1	2	1	1
44		4	1	2	1	2	1	4	2	2	3	2	1	3	2	1	4
45		4	1	2	1	2	1	4	4	1	3	2	1	1	2	1	1
46		2	2	2	1	2	1	3	2	1	3	3	1	2	2	2	1
47		4	1	2	1	1	1	4	2	1	3	2	1	1	2	1	2
48		2	2	2	1	2	1	3	2	1	3	3	1	2	2	2	2
49		4	1	2	1	2	1	4	2	1	3	2	1	1	2	1	1
51		4	1	2	1	1	1	4	2	1	2	2	1		2	1	2
52		4	1	2	1	2	1	4	2	1	3	2	1	3	2	1	2
53		4	1	3	1	2	1	4	2	1	2	2	1	1	2	1	2
55		4	1	2	1	2	1	3	2	1	3	2	1	1	2	1	1
57		2	1	2	1	2	1	4	2	1	2	2	1	1	2	1	1
58		4	1	2	1	2	1	4	2	1	3	2	1	1	1	1	2
59		4	1	2	1	2	1	3	2	1	3	2	1	1	2	1	2
60		4	1	2	2	2	2	4	3	1	3	2	1	3	2	2	3
61		4	2	2	2	2	2	4	4	1	3	3	1		2	1	2
63		2	2	2	1	2	1	4	2	1	2	2	1	1	2	2	2
65		4	1	2	1	1	1	3	2	1	3	2		1	2	1	2
66		4	1	3	1	1	1	4	2	1	2	2	1	1			
67		4	1	2	1	2	1	3	2	1	3	2	1	3	2	1	4
68		2	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
69		4	1	2	1	1	1	4	2	1	2	2	1		2	1	2
70		2	2	2	1	2	1	4	2	1	2	2	1	1	2	1	2
73		2	1	2	1	2	1	4	2	1	2	2	1	1	2	1	1
74		4	1	3	1	3	1	4	2	1	2	2		1	2	2	4
75		4	2	2	2	2	2	4	4	1	3	3	1	1			
76b		1	2	2	1	2	1	3	2	1	2	2	1	2	2	2	1
77		4	1	2	1	2	1	3	2	1	3	2	1	3	2	2	3
78		2	2	2	1	2	1	4	2	1	2	2	1	1	2	1	1
79a		2	1	2	1	2	1	4	2	1	2	2	1	3	2	1	2
79b		4	1	2	1	2	1	4	2	1	3	2	1	1	2	2	1
80		4	1	2	1	2	1	4	2	1	3	2	1	3	2	1	2
81		4	1	2	1	3	1	4	2	1	2	2	1	1	2	2	4
82		4	2	2	1	1	1	4	2	1	3	2	1	1	2	1	2
83		4	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
84		2	1	2	1	2	1	3	2	1	2	2	1	2	2	2	1
85		4	1	2	1	2	1	4	2	1	3	2	1	3	2	1	2

Table 31 (cont'd)

	Cultivar name	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
86			4	1	2	1	2	1	4	2	1	3	2	1	1			
87			4	1	2	1	2	1	4	2	1	3	2	1				
88	Uvi Laelade	Ngella	1	1	2	1	2	1	3	2	1	3	2	1	2	2	2	1
89	Uvi Laelade 2	Ngella	1	1	2	1	2	1	3	2	1	3	2	1	2	2	2	1
90	UK 2		2	1	2	1	2	1	4	2	1	3	2	1	2	2	2	1
91	Rurumanga	Ngella	2	2	2	1	2	1	4	2	1	2	2	1	1	2	2	1
92	Rurumanga	Ngella	2	2	2	1	2	1	4	2	1	2	2	1	1	2	2	1
93	RFP 1	Reef	2	2	2	1	2	1	4	2	1	2	2	1	1	2	2	1
94	Rurumanga	Ngella	2	1	2	1	2	1	4	2	1	3	2	1	1	2	1	1
95	Kokosu	Guadalcanal	4	1	3	1	1	1	4	2	1	2	3	1	1	2	2	3
96	Sale	Ngella	4	2	3	1	2	1	4	2	1	2	2	1	1	2	2	3
97	Paravu	Ngella	2	1	2	1	2	1	4	1	1	3	1	1	1	2	1	1
98	Ele Vou'u	Guadalcanal	4	2	3	1	2	1	4	2	1	2	2	1	1	2	2	2
99	Rennell	Rennell	4	2	3	1	2	1	4	2	1	2	2	1	1	2	1	2
100	GUP 19	Guadalcanal	1	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
101	Sere	Guadalcanal	2	2	3	1	2	1	4	2	1	2	2	1	1	2	1	2
102	RFP 2	Reef	1	1	2	1	1	1	3	2	1	2	2	1	1	2	1	2
103	Kanumeme		4	2	2	1	1	1	4	2	1	3	2	1	1	2	1	2
104	Kanumeme		4	2	2	1	1	1	4	2	1	3	2	1	1	2	1	2
105	GUP 20	Guadalcanal	1	1	2	1	2	1	4	2	1	3	2	1	1	2	1	2
106	Varerea		1	1	2	1	2	1	3	2	1	2	2	1	3	2	1	2
107	Fananiu		4	1	2	1	1	1	4	2	1	2	2	1	1	2	2	1
108	RFP 3	Reef	4	1	2	1	1	1	4	2	1	2	2	1	1	2	1	1
109	Talabuli		1	1	2	1	2	1	4	2	1	3	2	1	1	2	1	3
110	Santa Cruz 2	Santa Cruz	4	2	2	2	2	3	4	4	1	3	3	1	3	2	1	3
111	Vagoto	Guadalcanal	4	1	2	1	3	1	4	2	1	2	2	1	1	2	2	2
112	Santa Cruz 1	Santa Cruz	2	2	2	1	2	1	4	4	1	3	2	1	1	2	1	1
113	Paravu	Ngella	4	1	2	1	2	1	4	2	1	2	2	1	1	2	2	4
114	Vonu	Guadalcanal	4	1	2	1	2	1	4	2	1	2	2	1	1	2	2	4
115	Ananiauta	Guadalcanal	4	2	2	1	3	3	4	2	2	3	2	1	3	2	2	3
116	GUP 4	Guadalcanal	4	2	2	1	3	3	4	2	2	3	2	1	3	2	2	3
117	Bora	Guadalcanal	4	2	2	1	3	3	4	2	2	3	2	1	3	2	2	3
118	Uki		4	2	2	1	3	3	4	2	2	3	2	1	3	2	2	2
119	Arura	Guadalcanal	1	1	2	1	2	1	4	4	1	2	2	1	1	2	2	2
120	REP 21	Reef	1	2	2	1	1	1	4	4	1	2	3	1	1	2	1	2

Table 31 (cont'd)

	Cultivar name	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
121	GUP 16	Guadalcanal	2	2	2	1	2	1	4	4	1	2	2	1	1	2	1	1
122	GUP 17	Guadalcanal	1	2	2	1	1	1	4	4	1	2	3	1	1	2	1	1
123	Fanabora		1	2	3	1	1	1	4	4	1	2	2	1	1	2	1	1
124	Santa Cruz 3	Santa Cruz	4	2	2	1	2	1	4	4	1	2	2	1	1	2	1	1
125	Walande	Small Malaita	4	2	2	2	2	2	4	4	1	3	3	1	3	2	1	1
126	RFP 4	Reef	4	2	2	2	2	2	4	4	1	3	3	1	3	2	1	1
127	GUP 1	Guadalcanal	4	2	2	2	2	2	4	4	1	3	3	1	3	2	1	1
128	Kanu Meme	Ngella	4	2	2	2	2	2	4	4	1	3	3	1	3	2	1	2
129	Makaruka	Guadalcanal	4	1	2	1	1	1	4	2	1	2	2	1	1	2	1	2
130	Marilyn	Guadalcanal	4	1	2	1	1	1	4	2	1	3	2	1	1	2	1	1
131	Ururu	Ngella	4	2	3	2	2	1	4	4	1	2	2	1	1	2	1	1
132	GUP 18	Guadalcanal	4	2	2	1	2	2	4	3	1	3	2	1	3	2	2	3
133	GUP 15	Guadalcanal	1	2	2	1	2	1	4	4	1	2	4	1	1	2	1	1

TONGA

Xanthosoma and cassava are the main crops in Tonga. The Ministry of Agriculture and Fisheries used to hold representative germplasm collections at Vaini Experiment Station, including 23 cassava, six Xanthosoma, nine Alocasia, 14 Colocasia and 35 sweet potato accessions. Unfortunately, most of these are now lost. Areas under cultivation to different root crops on Tongatapu and the numbers of accessions currently held at Vaini (Curator: F. Pole) are given below:

	Area (ha)	Accessions
Cassava	1,281	8
Xanthosoma	1,913	-
Alocasia	245	-
Colocasia	229	-
Sweet potato	700	8
Yam	490	-

A small cassava collection is held at the University of the South Pacific (USP), Institute for Rural Development and it is this that is described here (Table 32), though partial descriptions are also given of some cultivars formerly in the Vaini collection. The aroids could probably be collected again, though some Colocasia varieties may disappear from cultivation if the recent series of dry years continues. The taro collection has been described by the Project (Table 33) and some evaluation work has been done at Vaini. Many of the more scab-susceptible sweet potato varieties are no longer grown in Tonga and may be irretrievably lost. This makes the reduction of the sweet potato collection (Table 34) particularly worrying. Before the advent of scab, up to 45 cultivars were grown on Tonga. Dr. J. E. Wilson of the School of Agriculture, USP, Apia, is working on a sweet potato programme at Vaini. IITA lines have been introduced, as well as seed from an open-pollinated Solomon Islands population. Some 60 - 70 D. alata cultivars are thought to occur in Tonga, but they have never been collected.

Cassava

Mataki Eua is the most popular cassava cultivar in Tonga. Koka Anga has a high cyanide content and is only grown as a source of glue for tapa. Enga Enga, Leka Hina and Mataki Eua are considered to have the best taste. A collection of some 12 varieties was assessed in 1982 - 83 and 1983 - 84. Leka Hina had by far the best yield. Enga Enga had the highest dry matter content.

Taro

Lau'ila'uli is the most popular taro cultivar in Tonga, Lau'ila Hina the second most popular. Manua Iuli is commonly grown on Eua, though not on Tongatapu. In a trial in 1982 - 83 which may not be representative because of low rainfall just after planting, the highest yielders were Lau'ila'uli, Lau'ila Hina and Talo Velleti. Sikavi Hina had the highest dry matter content, Manga Siva the largest number of suckers and also high yield.

Sweet potato

Among sweet potato varieties grown in Tonga, Tongamai is the best tasting, but it is also very susceptible to scab and is no longer grown. Hawaii, which is resistant, now occupies some 90% of sweet potato land. Also scab-resistant are Amalika, Kaloti and Aliki. Halasika, Melefakaha'u and Laufu are moderately resistant. Four trials in 1982 - 83 resulted in the following recommendations, in descending order, for different climatic conditions:

Wet: Hawaii, Amelika, Aliki, Halasika, Laufuopotolalahi, Kaloti.

Dry: Hawaii, Amelika, Aliki, Laufuopotolalahi, Siale Kula, Kaloti.

Very dry: Amelika, Aliki, Taiwan, Laufuopotolalahi.

Halasika, Hawaii, Melefakaha'u, Siale and Tongamai have been analysed for nutritional quality by the ANU/ACIAR project. Tongamai had the highest energy content. Elite cultivars have been sent to PRI.

Table 32

DESCRIPTORS FOR CASSAVA VARIETIES OF TONGA

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Enga Enga	4	0	2	2	7	21.5	5.3	3	1	1	1	2	1	2			1	0		1
Fala'oa	4		2		7	24.1	5.0	3	2	1		2	1	1			1		3	1
Fiji	3		3		7	23.6	5.8	3	1	1		2	2	1	1		3	0		1
Koka Anga	4		3		7	24.9	4.5	4	1	1	2	3	3	1	1					2
Leka Hina	3	2	1	2	7	24.3	5.3	2	1	1	2	1	1	1	1		1	0		1
Leka Kula	1	1	2	2	7	24.0	6.2	4	1	1	1	1	3	1	1		1	1		1
Lepa Hina	3	2	1	2	7	22.4	5.9	3	1	1	2	2	1	1	1			0		1
Lepa Kula	3	3	2	2	7	22.8	5.3	4	1	1	2	2	2	1	1			0		
Mataki Eua	1	2	1	2	9	25.1	6.2	3	1	3	1	3	2	1	3		1	0		2
'Round Leaf'	1		1		7	12.7	3.9	1		1	1	2	2	1	3					
Silika	4	0	1	2	7	20.0	5.4	3	1	1	1	2		1	1	3	4	0	1	1
Tanoa	3	3	2	2	7			4	1	1	1									

* For definitions of descriptor codes see p. 4.

Table 33

DESCRIPTORS FOR TARO VARIETIES OF TONGA

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Niue	0	2	1	1	1.58	3	0	2	2	2	1	1.76	3--	2--	2--	4	0.64	3	4	1	1	0
2	Manua Hina		1	1	1	1.52	3	0	1	2	2		1.73	2--	2--	2--	4	0.62	-	4	3	1	1
3	Manua Iuli	0	2	1		1.51	4	0	2	2	1	1	1.72	4--	4--	241	1	0.65	-	4	1	2	0
4	Lau'ila Hina	0	3	1		1.43	3	0	3	2	1	1	1.95	4--	2--	2--	1	0.55	3	7	1	1	0
5	Lau'ila'Uli	0	3	1	1	1.47	3	0	3	2	1	1	1.89	4--	2--	2--	1	0.65	3	7	1	1	0
6	Vahe Tuutahe	0	2	1	1	1.38	2	0	1	2	1	0	2.12	132	232	232	1	0.64	-	4	1	1	0
7	Sikavi Hina	0	2	1	1	1.31	4	0	2	2	1	4	2.30	4--	2--	2--	1	0.61	3	4	1	2	0
8	Sikavi 'Uli	0	2	1	0	1.55	4	0	2	2	1	4	1.83	4--	4--	424	1	0.67	3	4	1	1	0
9	Manga Siva	0	3	1	0	1.39	2	0	1	2	2	4	2.64	1--	2--	231	4	0.60	3	7	1	1	0
10	Manga Koka	0	2	1	1	1.32	3	0	1	2	2	4	1.96	4--	2--	231	5	0.59	3	3	3	1	0
11	'Number One'	0	2	1	1	1.56	4	0	1	2	2	4	2.09	4--	2--	3--	4	0.67	3	4	1	1	0
12	Mangamea	0	2	1	1	1.65	3	0	2	2	1	4	1.70	3--	3--	131	1	0.69	-	3	1	1	0
13	Talo Velleti	0	3	1	0	1.45	2	0	1	2	2	0	1.88	2--	2--	231	4	0.55	3	7	1	1	0
14	Talo Enga	0	2	1	1	1.75	3	0	1	2	2	4	1.54	2--	231	231	5	0.66	-	7	3	1	0

* For definitions of descriptor codes see p. 13.

Table 34

DESCRIPTORS FOR SWEET POTATO VARIEITES OF TONGA

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Siale	1	2	2	2	1	0	IV1	0	0	0	2	1	1	1	1	6	20	0										1
Kaloti	1	2	2	3	3	0	II2				1	2	2	3	2	3	30	0										
Amalika	1	2	2	1	1	0	IV1				2	1	1	2	1	6	20	2	2			1	1	3		1	1	1
Halasika	1	2	3	1	1	1	I1				0	1	1	2	1	6	10	0										
Hawaii	1	2	2	1	1	0	III2				2	2	1	2	1	1	41	0										
Tongamai	1	2	2	1	1	0	V1				3	2	1	2	1	1	20	0										
Taiwan	1	2	2	1	5	3	I1				0	2	2	2	1	1	10	0										
Melefakaha'u	1	2	2	1	1	1	III1				2	1	2	2	1	1	10	0										

* For definitions of descriptor codes see p.27.

TUVALU

The main root crop in Tuvalu is Cyrtosperma, but Colocasia is also grown. Germplasm collectionsare held by the Department of Agriculture of the Ministry of Commerce and Natural Resources at the Agricultural Research Station on Vaitupu (Curator: I. Puapua, Assistant Research Officer). Numbers of local accessions are as follows:

	Accessions
Cyrtosperma	12
Colocasia	13
Sweet potato	3

Local taro cultivars tend to have few suckers at high plant densities, making shortage of planting material a major constraint on production in Cyrtosperma (pulaka) pits. Seed from sixteen crosses between Fijian cultivars which sucker profusely was introduced in 1984 to try to alleviate this problem. The commercial production of sweet potatoes as an intercrop in land replanted to coconuts is being investigated in a pilot scheme on Vaitupu with assistance from the Overseas Development Administration, UK.

Taro

Most taro cultivars in Tuvalu probably originally came from Fiji. In a series of trials in 1983, Talo Kena was the highest yielding of the local cultivars. Descriptors for taro are presented in Table 35.

Sweet potato

Vaitupu Red is the common cultivar, and the recommended one as the intercrop in the coconut replanting scheme. It probably came from Fiji. Descriptors for sweet potato are presented in Table 36.

Table 35

DESCRIPTORS FOR TARO VARIETIES OF TUVALU

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Talo Temolo	1	2	1	0		3	0	-	-	2	5		2--	2--	2--	4		3		1	1	
2	Tulee	1	1	1	0		2	0	-	-	3	1		1--	231	234	4		3		1	3	
3	Niue	0	2	1	0		3	0	1	2	1	1		4--	423	241	1		-		2	1	
4	Talo Fou	0	2	1	1		3	0	3	2	1	4		4--	4--	421	1		-		2	1	
5	Ula Sele Kula	0	2	1	1		3	1	1	2	1	3		4--	432	413	1		-		2	1	
6	Ula Sele Kena	0	1	1	0		3	1	-	-	1	5		123	412	412	1		-		2	1	
7	Kula Toto	0	1	1	1		3	0	2	2	1	3		4 --	421	324	1		-		1	2	
8	Kisome	0	1	1	1		3	0	2	2	1	3		4--	421	324	1		3		1	1	
9	Talo Kena	0	2	1	0		3	0	1	2	1	5		1--	124	124	1		-		1	1	
10	Manua Kula	0	2	1	1		3	0	2	2	1	4		4--	4--	244	1		-		1	1	
11	Manua	0	1	1	1		3	0	1	2	1	1		4--	4--	421	1		-		1	1	
12	Pula Manua	0	2	1	1		4	0	3	2	1	4		4--	4--	421	1		-		1	1	
13	Talo Fiti	0	3	1	1		3	0	1	2	3	1		4--	4--	4--	1		-		1	1	

* For definitions of descriptor codes see p. 13.

Table 36

DESCRIPTORS FOR SWEET POTATO VARIETIES OF TUVALU

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Funafuti White	1	2		2	2	1	III2	13.4	10.2	1.1	2	3	7	2	1	1	10	0										
2	Vaitupu Red	1	2		2	1	2	III2	5.8	11.3	9.0	2	2	1	2	1	6	233	0										
3	Nui White	1	2		1	2	0	IV2	9.1	12.2	1.7	2	2	7	3	2	1	10	0										

* For definitions of descriptor codes see p. 27.

VANUATU

Colocasia, D. alata, sweet potato and Xanthosoma are all widely grown in Vanuatu, but there are considerable differences between islands, and even between different areas of the same island, in their relative importance. Germplasm collections are held by the Department of Agriculture and Forestry at Chapuis Research Station on Espiritu Santo (Curator: F. Bule, Research Officer, Root Crops). Numbers of accessions are currently as follows:

	Accessions
Cassava	24
Colocasia	138
Xanthosoma	14
Sweet potato	38
D. alata	194
D. esculenta	17
D. bulbifera	12
D. pentaphylla	4
D. nummularia	9
D. rotundata	3
D. trifida	1
Dioscorea sp.	5

All these accessions are local cultivars, except for the D. rotundata and D. trifida. Some IITA sweet potato lines have also been introduced. Collection of taro and yams is continuing.

Cassava

Some high yielding cassava cultivars are thought to have been introduced into Vanuatu from South-east Asia some time ago. It is not known which ones these are. In a recent trial on Espiritu Santo, cultivars 19, 40, 1, 22 and 32 were the highest yielders, in descending order. Cultivars 1, 19 and 22 also had a high starch content. Cultivars 32 and 37 had the highest numbers of tubers per plant, 4 and 18 the lowest. Of the high yielding cultivars, 1 and 40 had the highest harvest indices. The descriptors for cassava are presented in Table 37.

Taro

The extensive Vanuatu taro collection (Table 38), is in the process of being evaluated. Information is given here on the preferred cultural method for most of the varieties (whether dry- or wetland) and the preferred method of preparation (Table 39). Accessions 3, 40, 56, 58, 74, 77, 83 and 150 have corms which grow above ground and may therefore be less susceptible to Papuana beetle attack. These, and the best of the dryland and wetland cultivars, will soon be in tissue culture at Project Headquarters. Accession 52 is a very vigorous cultivar, 157 a very early one. Accessions 123 and 149 are "wild" with no corm. Accession 53 is peculiar in that the main plant grows at an angle, 87 in that it has dark blotches and flaps of tissue on the underside of leaves which are almost hastate. Possible duplicates within the collection include the following accessions: 10 = 12, 50 = 51, 90 = 91, 94 = 99 and 120 = 122.

Sweet potato

Sweet potato variety trials were carried out at seven sites on five islands in 1983 and are continuing. Recommended varieties are 1, 12, 14, 30 and 58. Cultivar 1 is slow- but high yielding, with large tubers. It covers the ground rapidly and has vine tubers. Cultivar 14 is the fastest high yielder but tubers can rot in the soil and cooking quality is poor. Cultivar 30 is well liked and high yielding. Cultivar 58 is fast and high yielding and has large vine tubers. Other cultivars with vine tubers are: 8, 16, 21, 24, 26, 27 and 28. Cultivars 11 and 15 have short, thin vines, which make them good for intercropping. Cultivars which gave full ground cover at 47 days are: 1, 4, 5, 8, 14 and 33. Several local cultivars seem to show higher scab resistance than the best introduced IITA lines. A key to the Vanuatu sweet potato varieties has been made (Larsen, 1984). Descriptors for sweet potato are presented in Table 40.

Yam (D. alata)

The Vanuatu yam collection has only recently been started. A yam-house for storing the tubers is being built. A printout has been supplied to the Root Crops Section at Chapuis of the accessions indexed on the following descriptors, in order: spininess of stem base (17), young leaf colour (8), presence/absence of purple edge on young leaves (10), young leaf vein colour (9) and mature petiole colour (4). This revealed considerable duplication, but tuber descriptors will have to be collected before any accessions can be discarded. Descriptors for yams (D. alata) are given in Table 41.

Table 37

DESCRIPTORS FOR CASSAVA VARIETIES OF VANUATU

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1		1			2		22.0	6.2	4	1	1	2	3	3	1	3					2
2		3			1		28.0	3.0	4	1	2	2	3	3	1	3					2
4		4			2		21.0	5.0	3	1	1	3	2	1	1	3					1
5	Manioc Curry	1			2		18.0	5.0	1	1	2	2	1	3	1	3					2
6	Pango Manioc	3			2		26.0	5.5	3	1	1	1	1	3	1	1					1
9		3			2		26.0	5.5	4	1	1	1	2	1	1	1					1
10		1			2		22.0	6.6	4	1	1	1	2	3	1	3					2
11		3			2		24.0	6.4	3	1	2	2	2	3	1	1					2
12		3			2		23.0	6.0	4	1	2	1	1	2	1	1					1
13		1			2		23.0	6.0	4	1	2	1	3	3	1	1					1
14		3			2		22.0	5.8	4	1	2	1	2	3	1	1					1
15		1			2		22.0	6.4	3	1	2	1	3	2	1	1					1
17		3			2		22.0	6.0	4	1	1	3	3	1	1	1					1
18		3			2		19.0	4.7	3	1	3	1	2	3	1	1					2
19		1			2		21.0	6.2	4	1	1	1	3	3	1	3					1
20		3			2		22.0	5.8	4	1	2	2	2	3	2	1					2
22	'Sweet'	3			2		24.0	6.0	3	1		3	2	1	1	1					1
25	Three Months	3			2		19.0	3.8	1	1	3	1	1	3	2	1					2
32	Manioc Rice	4			2		19.0	5.0	3	1	2	1	2	3	1	1					2
34	Linien Manioc	1			2		27.0	6.5	3	1	3	1	1	3	1	1					2
37	Manioc Rice	3			2		18.0	2.3	1	1	1	1	2	1	1	1					1
38		4			2		13.0	3.8	1	2	1	3	1	1	1	1					1
40	Curry	3			2		18.0	4.3	1	1	1	1	2	2	1	3					1
42	Manioc Rice	1			3				3	1	3	1	2	3	1	1					2

* For definitions of descriptor codes see p. 4.

Table 38

DESCRIPTORS FOR TARO VARIETIES OF VANUATU

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Penarura	0	2	1	0		3	0	2	2	1	3		413	143	2--	1		3				1
2	Masangara	0	2	1	1		3	0	2	2	2	4		4--	241	421	1		3				1
3	Pakaleo	0	1	1	1		3	0	1	2	2	4		1--	1--	1--	1		3				1
4	Tuvutuvu	0	2	1	1		3	0	1	2	2	3		4--	243	243	4		3		2	1	0
5	Fatmala	0	3	1	1		3	0	2	2	2	4		4--	243	1--	4		3		1	2	1
6	Petarovo	0	3	1	1		3	0	2	2	2	4		4--	421	242	5		3		3	3	1
7	Tarpartanpat	0	2	1	0		3	0	1	2	1	1		2--	2--	241	1		3		1	2	1
8	Nandruendakal	0	2	1	1		3	0	2	2	2	1		4--	1--	1--	4		3		3	2	0
9		0	3	1	1		3	0	3	2	1	3		4--	144	2--	1		3		1	1	1
10		1	2	3	0		3	1	-	-	1	0		122	212	212	1		4		3	2	0
11		0	2	1	0		3	0	-	-	2	1		411	2--	241	4		-		6	2	1
12		1	2	3	0		3	1	-	-	1	0		122	212	212	1		4		3	2	1
13		1	2	1	0		3	0	-	-	1	0		1--	1--	1--	1		-		2	1	1
16	Seravul	0	2	3	1		3	0	3	2	2	3		4--	144	1--	4		3				0
17		1	2	1	0		3	0	-	-	1	0		1--	1--	1--	1		-		2	2	0
18		0	2	1	0		3	0	1	2	2	0		1--	1--	141	5		3		3	2	0
19	Baramo	0	2	1	1		3	0	1	2	2	3		4--	243	422	4		3		3	2	1
20	Lavu	0	2	1	0		3	0	-	-	1	0		2--	2--	213	1		3		1	2	0
21	Lavu	0	0	3	1		3	0	1	2	2	0		243	2--	243	4		3		3	2	1
22	Veranawudi	0	1	1	1		3	0	1	2	2	1		141	243	2--	5		3		3	2	1
23	Silviot-Jivlioti	0	2	1	0		3	0	-	-	1	0		1--	2--	2--	1		3		1	1	0
24	Malumlum	0	1	1	1		3	0	2	2	1	3		4--	243	423	1		4		1	1	0
25	Malumlum	0	2	1	1		3	0	2	2	1	4		4--	243	422	1		3		2	1	1
26	Malumlum	0	1	1	0		3	0	2	2	1	3		4--	243	423	1		4		1	2	1
27	Rokrok	0	2	1	0		3	0	3	2	1	3		4--	241	1--	1		3		1	3	0
28	Rokrok 2	0	3	1	1		2	0	1	2	2	3		142	1--	132	4		3		1	2	0
29	Tawunar	0	1	1	1		3	1	1	2	2	1		4--	243	212	4		3		3	2	0
30	Tasepal	0	1	1	1		3	1	-	-	2	0		212	212	212	4		3		3	1	0
31	Kalol	0	1	3	1		3	0	2	2	1	1		411	1--	1--	1		-		1	2	0
32	Vivlok	0	1	3	0		3	0	1	1	1	0		2--	2--	2--	5		3		6	3	1

* For definitions of descriptors codes see p. 13.

Table 38 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
33	Matanmats	0	1	3	1		3	0	2	2	2	3		4--	241	241	5		3		6	3	0
34	Wariol	0	1	1	1		3	0	3	2	2	4		412	2--	241	5		3		5	2	0
35	Tawantaol	0	1	1	0		3	1	-	-	1	0		2--	2--	423	1		4		1	1	1
36	Matir	0	1	1	0		3	1	1	1	1	0		2--	2--	2--	1		3		1	2	1
37	Navia	0	1	1	0		2	0	3	2	1	0		1--	2--	2--	1		3		1	2	0
38	Malvekal	0	2	1	1		3	0	3	2	1	4		4--	423	4--	1		3	7	1	3	0
39		1	2	1	1		3	0	1	3	2	4		144	1--	1--	4		3		3	2	1
40	Turei	0	1	1	1		3	1	1	2	2	0		421	212	212	5		3		3	2	0
41	Matamata	0	1	1	1		3	0	2	2	1	1		4--	1--	1--	1		-		1	1	1
42	Nanono	0	1	1	1		3	0	1	2	2	1		421	422	422	5		5		6	3	1
43	Sacuse	0	1	1	1		3	0	1	2	2	4		422	242	241	5		3		6	3	0
44	Warongaibarato	0	1	1	1		3	0	3	2	2	4		4--	422	241	5		3		5	3	1
45	Buleisingo	0	2	1	0		2	0	1	2	1	1		242	2--	241	4		3		1	2	0
46	Buletolo	0	2	1	1		3	0	2	2	1	3		4--	423	423	1		4		1	1	0
47	Ngoro	0	2	1	1		2	0	1	2	2	1		411	2--	241	5		3		6	3	0
48		0	1	1	0		2	0	-	-	1	0		141	2--	2--	1		3		1	1	0
49		0	2	1	1		3	0	1	2	2	3		4--	2--	2--	4		3		5	2	1
50		0	2	1	1		3	0	2	2	2	1		411	243	243	4		3		3	2	0
51		0	2	1	1		3	0	2	2	2	1		4--	243	243	4		3		3	2	0
52	Manwarda	0	2	1	1		3	0	1	2	1	3		413	2--	2--	1		-		1	1	0
53	Nuyal	0	0	1	1		3	1	2	2	1	3		4--	122	142	1		4		3	1	0
54	Matawolul	0	1	1	1		3	0	2	2	2	3		142	142	1--	4		3		6	2	0
55	Fiarkbera	0	1	1	1		4	0	2	2	2	4		4--	412	322	5		3		6	3	1
56	Tura	0	1	1	0		3	0	-	-	1	0		2--	2--	2--	4		3		3	2	0
57	Mahanavetu	0	2	1	1		3	0	1	2	2	4		4--	422	422	4		3		6	2	1
58	Moliware	0	2	1	1		3	0	1	2	2	3		4--	143	241	5		4		6	3	1
59	Sinon	0	1	1	1		4	0	3	2	2	4		4--	243	243	4		4		3	3	0
60	Voravora	0	2	1	0		3	0	2	2	1	1		242	242	242	1		3		1	1	0
61	Tarivanga	0	1	1	1		3	0	2	2	2	3		4--	243	243	4		3		3	2	0
63	Buleisemisbovu	0	1	1	1		3	0	2	2	2	3		4--	414	424	5		4		6	3	0
64	Arusuli	0	1	1	1		3	0	2	2	1	3		4--	241	241	1		3		1	1	0
65	Koru	0	2	1	1		3	0	1	2	2	4		4--	241	241	5		4		6	3	0
66	Buleiqero	0	2	1	1		3	0	1	2	2	1		241	2--	2--	5		3		3	3	1
67	Gaveimaito	0	1	3	1		3	0	2	2	2	4		412	422	422	5		3		6	3	1
68	Magundu	0	2	1	1		3	0	2	2	2	3		411	143	141	5		3		6	3	1
69	Talaifui	0	1	1	1		3	0	2	2	2	3		4--	141	1--	4		3		3	2	0

Table 38 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
70	Mahagatambeo	0	1	1	1		3	0	2	2	1	3		411	243	243	1		3		1	1	0
71	Buleivireundu	0	1	1	1		3	0	1	2	2	3		424	232	232	5		4		6	3	0
72	Ganigrasea	0	2	1	1		3	0	2	2	2	1		4--	243	243	5		3		6	3	0
74	Wururaholuna	0	2	1	1		3	0	3	2	1	4		4--	243	241	1		4		1	1	0
76	Buntaforetwe	0	2	1	1		3	0	1	2	2	3		411	1--	1--	4		3		3	2	0
77	Point Cross	0	1	1	1		3	0	2	2	1	4		4--	241	2--	1		3		1	1	1
78	Igoga	0	2	1	1		3	0	2	3	2	1		143	122	122	4		3		3	2	1
79	Tureango	0	2	1	1		3	0	2	2	2	0		4--	143	323	4		3		2	2	0
80	Fulataba	0	1	1	1		3	0	2	3	2	1		143	122	122	4		3		3	2	0
81	Taleidali	0	2	1	1		3	0	1	2	2	3		4--	241	241	5		5		6	3	1
82	Bethorobasia	0	2	1	1		3	0	3	2	1	1		4--	241	2--	1		-		1	3	0
83	Akasten (Agostin)	0	2	1	1		3	0	1	2	2	1		4--	2--	2--	5		3		6	3	0
84	Turangora	0	1	1	1		3	0	1	2	2	3		424	423	423	4		3		3	2	0
85	Weifenua	0	1	1	1		3	1	3	2	2	3		4--	212	212	4		3		2	2	1
86	Metagabile	0	1	1	1		3	0	3	2	2	4		4--	241	212	4		3		2	2	1
87	Bulatalai	0	1	1	1		3	0	3	2	2	3		4--	243	212	4		3		3	2	0
88	Bulatalai 2	0	1	1	0		3	0	1	1	2	0		133	1--	132	5		3		6	3	0
89	Naololo	0	1	1	1		3	0	2	2	2	1		4--	243	243	4		4		2	2	1
90	Sekrimando	0	1	1	1		3	0	2	2	1	1		4--	233	231	1		3		2	1	0
91	Roveratuk	0	2	1	1		3	0	2	2	1	1		4--	233	231	1		3		2	1	0
92	Revrenukwisi	0	1	1	1		3	0	1	2	2	1		423	212	212	4		3		3	2	0
93	Kwaba	0	2	1	1		3	0	1	2	2	1		421	2--	2--	4		3		2	2	0
94	Kafafowi	0	2	1	1		3	0	2	2	2	4		4--	241	311	4		3		3	2	0
95	Naverenarakwas	0	2	1	1		3	0	2	2	2	1		4--	243	231	4		3		6	2	0
96	Nokaning	0	2	1	1		3	0	1	2	2	0		423	2--	2--	4		4		3	2	0
97	Nokwis	0	2	1	1		3	0	2	2	2	3		423	243	243	4		3		3	2	0
98	Nipin	1	1	1	1		3	0	1	2	1	3		4--	243	423	1		3		4	2	0
99	Espeaore	0	1	1	1		3	0	2	2	2	4		411	241	311	4		3		3	2	0
100	Youelik	0	1	1	1		2	0	2	3	1	2		411	1--	1--	1		3		2	1	0
101	Nitivila	1	2	1	1		3	0	2	2	2	4		423	243	241	5		3		6	3	0
102	Nakoriwe	1	1	1	1		3	0	2	2	2	3		4--	423	4--	4		-		2	2	0
103	Lowanasis	0	1	1	1		3	1	-	-	2	0		122	122	122	4		3		3	2	0
104	Nangen	0	1	1	1		3	0	1	2	2	0		141	2--	2--	4		3		3	2	0

Table 38 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
105	Nikaoongan	0	1	1	1		3	0	1	2	2	1		4--	243	2--	4		3		3	2	0
106	Tansiwenlowa	0	1	1	1		4	0	2	2	1	3		412	122	2--	1		-		2	1	0
110	Nokwanani	0	0	1	0		4	0	3	1	1	0		2--	2--	2--	1		-		3	2	0
111	Nimakup	0	1	3	1		3	0	2	2	1	1		4--	241	241	4		3		1	2	0
112	Nuela	0	1	3	1		3	0	2	2	1	1		141	144	141	4		3		2	2	0
114	Jimmy Tawa	0	1	1	1		3	0	1	2	1	1		244	2--	241	4		3		2	3	0
115	Nitiharil	0	1	1	1		3	1	-	-	2	0		213	212	241	4		4		6	3	0
117	Nikookapin	0	1	1	1		3	0	3	2	2	4		4--	411	312	4		4		6	3	0
119	Intelpeyar	0	1	1	0		3	1	-	-	2	0		122	122	122	1		-		1	2	0
120	Inbaji	1	1	1	1		3	0	3	2	2	4		4--	243	2--	4		3		3	2	0
121	Kaasua	0	1	1	1		3	0	2	2	1	3		4--	141	311	4		3		4	2	0
122	Nabom	1	1	1	1		3	0	3	2	2	4		4--	243	2--	4		3		3	2	0
123	Noweiri	1	1	1	0		3	0	-	-	1	0		2--	2--	2--	1		-		1	1	0
124	Namasey	1	1	1	0		3	0	-	-	2	0		1--	243	423	4		3		6	2	0
127	Sakanumunto	0	1	1	1		3	0	1	2	1	0		243	243	2--	1		-		4	2	0
128	Inteltanna	0	0	1	0		3	1	3	1	1	0		123	122	122	1		-		2	1	0
129	Navenanihivig	0	1	1	1		3	1	2	2	1	1		4--	212	241	1		3		1	1	0
131	Intelmare	1	1	1	0		4	0	1	2	1	0		244	423	4--	1		-		2	1	0
133	Taro North	0	2	1	1		3	0	3	2	2	4		4--	243	423	4		3		6	2	0
135	Weeko	0	1	1	1		3	0	3	2	1	3		4--	243	2--	1		4		2	1	1
136	Nowerak	1	1	1	0		3	0	-	-	1	0		2--	2--	2--	4		4		2	1	1
137	Naree Ure	0	1	1	1		3	0	-	-	1	1		244	423	4--	1		-		1	1	1
138	Tongasow	0	1	1	0		3	0	3	1	1	0		2--	2--	2--	1		-		3	3	1
140	Naree	0	1	1	0		3	0	-	-	1	0		141	212	422	1		3		2	1	0
143	Nangisowouya	0	1	3	1		3	0	2	2	2	3		4--	4--	4--	4		-		6	2	1
144	Towumay	0	1	3	0		3	0	-	-	1	0		2--	2--	2--	1		4		1	1	1
146	Poysangi	0	1	1	1		3	0	2	2	1	1		4--	141	122	1		4		1	1	1
147	Naree	0	1	1	1		3	0	-	-	1	1		144	1--	1--	1		3		1	1	1
148	Sakiepie	1	2	1	1		3	0	1	3	2	1		423	2--	241	4		3		6	2	1
149	Taromarou	1	2	1	1		3	0	2	2	1	1		4--	2--	2--	1		3		1	2	1
150	Napease	1	2	1	0		4	0	1	1	1	0		2--	2--	2--	1		-		4	2	0
152		1	2	1	1		3	0	1	3	2	4		1--	243	423	5		3		6	3	1
153		1	2	1	1		4	0	2	2	2	4		4--	243	243	5		3		6	3	1
155		1	1	1	1		3	0	2	2	1	1		243	423	423	1		1				1

Table 38 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
156	Bwet Wai	0	1	1	1		3	0	2	2	1	1		4--	423	423			4				0
157	Tabisawan	0	1	1	1		3	1	2	2	1	1		4--	212	243			3				0
158	Uhmwalgel	0	1	1	1		3	0	2	2	1	4		4--	2--	2--			-				0
159	Uhmwalgel	0	1	1	1		4	0	2	2	2	4		4--	241	241			3				0
160	Sisrida Aboga	0	1	1	1		3	0	1	2	2	4		4--	421	241			4				0

Table 39

ADDITIONAL DESCRIPTORS FOR TARO VARIETIES OF VANUATU

	Cultivar name	* 23	24	25	26	27	28
1	Penarura	2	D	-			
2	Masangara	3	D	-			
3	Pakaleo	2	D	-			
4	Tuvutuvu	1	D	-			
5	Fatmala	2	D	-		+	
6	Petarovo	2	D	+			
7	Tarpartanpat	3	D	+			
8	Nandruendakal	2	DW	+		+	
9		2	W	+		+	
10			W				
11			W				
12			W				
13			W				
16	Seravul	1	D				
17			D				
18		3	D				
19	Baramo	2	D	+	-	+	+
20	Lavu	1	W	-	+	-	-
21	Lavu	1	W	-	+	-	-
22	Veranawudi	2	DW	+	-	-	-
23	Silviot-Jivlioti	1	W	-	+	-	+
24	Malumlum	2	W	+	-	+	+
25	Malumlum	2	W	+	-	+	+
26	Malumlum	3	W	+	-	+	+
27	Rokrok	2	W	+	+	-	-
28	Rokrok 2	1	W	-	+	-	-
29	Tawunar	2	W	-	-	-	+
30	Tasepal	2	W	-	-	-	-
31	Kalol	1	W	-	-	-	-
32	Vivlok	2	W	+	-	-	-
33	Matanmats	2	W	-	+	-	-
34	Wariol	2	W	+	-	-	-
35	Tawantaol	1	W	-	-	-	-
36	Matir	2	W	+	-	-	-
37	Navia	2	W	+	-	-	-
38	Malvekal	2	W	+	-	-	+
39		1	D		-		
40	Turei	2	D	-			
41	Matamata	3	D				
42	Nanono	2	D	+	+	-	-
43	Sacuse	3	D	+	+	-	
44	Warongaibarato	2	D	+	+		+
45	Buleisingo	1	D	-	-	+	
46	Buletolo	1	D	-			
47	Ngoro	1	D	-			
48		2		+			
49		1	D				
50		1	W		+		+
51		1	D		+		+

* For definitions of descriptor codes see p. 15.

Table 39 (cont'd)

	Cultivar name	23	24	25	26	27	28
52	Manwarda	2	DW	+	-		
53	Nuyal	2	D	-	+		+
54	Matawolul	2	D	+			
55	Fiarkbera	2	D	-	+		-
56	Tura	2	D				-
57	Mahanavetu	1	D				
58	Moliware	2	D	-			
59	Sinon	3	D	-			
60	Voravora	2	D	+			
61	Tarivanga	3	D	-			+
63	Buleisemisbovu	2	D				-
64	Arusuli		D				+
65	Koru	2	D				
66	Buleiqero	1	D	+	+	+	+
67	Gaveimaito	1	D				
68	Magundu	1	D				
69	Talaifui	1	D	-	+		
70	Mahagatambeo	2	D	-			
71	Buleivireundu	2	D	-			
72	Ganigrasea	1	D	-			
74	Wururaholuna	1	D				
76	Buntaforetwe	1	D				
77	Point Cross	1	D				-
78	Igoga		D		-		-
79	Tureango	1	D		+		-
80	Fulataba		D				
81	Taleidali	1	D				
82	Bethorobasia	3	D				
83	Akasten (Agostin)	1	DW				
84	Turangora	3	D				
85	Weifenua		D				
86	Metagabile	2	D				
87	Bulatalai	2	D				
88	Bulatalai 2	2	D				
89	Naololo	2	D				
90	Sekrimando	3	D				
91	Roveratuk	1	D				
92	Revrenukwisi	3	D				
93	Kwaba	3	D				
94	Kafafowi	2	D				
95	Naverenarakwas	2	D				
96	Nokaning	2	D				
97	Nokwis	2	D				
98	Nipin	1	D				
99	Espeaore	3	D				
100	Youelik	1	D				
101	Nitivila	2	D				
102	Nakoriwe	3	D	+			
103	Lowanasis	2	D				
104	Nangen	2	D				
105	Nikaoongan	2	D				
106	Tansiwenlowa	1	D	+		+	+
110	Nokwanani	3	D				
111	Nimakup	3	D	+			

Table 39 (cont'd)

	Cultivar name	23	24	25	26	27	28
112	Nuela	2	D				
114	Jimmy Tawa	3	D				
115	Nitiharil	3	D				
117	Nikookapin	3	D				
119	Intelpeyar	2	W				
120	Inbaji	2	W	+		+	+
121	Kaasua	2	W				
122	Nabom	2	W	+		+	+
123	Noweiri	2	W				
124	Namasey	1	D			+	
127	Sakanumunto	3	D			+	
128	Inteltanna	2	D				
129	Navenanihivig	2	D			+	
131	Intelmare	3	DW	+			
133	Taro North	3	W	-			
135	Weeko	2	D	-			
136	Nowerak	2	D	-			
137	Naree Ure	2	D	+		+	+
138	Tongasow	2	D	+		+	+
140	Naree	2	D				
143	Nangisowouya	3	W				
144	Towumay	2	W				
146	Poysangi	3	W				
147	Naree	3	W				
148	Sakiepie	3	W				
149	Taromarou	3	W				
150	Napease	2	W				
152							
153							
155							
156	Bwet Wai						
157	Tabisawan						
158	Uhmwalgel						
159	Uhmwalgel						
160	Sisrida Aboga						

Table 40

DESCRIPTORS FOR SWEET POTATO VARIETIES OF VANUATU

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1			3		1		III2	15.2	15.9	1.8	2	2	1			6	20											
2			2		1		I2	12.6	13.9	2.1	0	3	5			6	20											
4			3		4		III2	15.4	16.1	1.9	2	1	7			6	14											
5			3		1		III	14.6	15.3	3.0	1	3	1			2	10											
6			2		3		III2	16.2	16.3	2.0	2	3	7															
8			3		2		III	13.9	13.9	1.1	1	3	7			1	20											
9			2		4		III	15.7	17.3	4.6	1	2	7			6	20											
10					1		II2	14.3	14.7	1.4	1	3	4			2	20											
11			1		4		III3				2	1	7			1	20											
12			2		2		II2	16.5	16.6	2.0	1	2	7			6	10											
13					1		II2	11.2	11.5	1.8	1	2	4			1	10											
14			3		1		I2	12.9	13.5	1.7	0	1	4			1	10											
15			1		4		V2	13.4	17.2	0.9	3	2	7			2	20											
24			2		4		III2	11.9	16.0	1.8	2	1	7			1	20											
25			2		2		III3	11.7	15.5	1.9	2	1	7			2	24											
26			2		4		I2	12.9	15.5	4.3	0	1	7			6	14											
27			2		2		I1	12.2	13.2	2.2	0	3	7			5	30											
28			2		2		I1	10.9	13.6	1.9	0	1	7			1	24											
30					1		II3	11.6	12.7	2.5	1	1	2			3	24											
32					3		III3	9.9	12.9	1.4	2	1	7			2	23											
33			3		2		II2	16.5	17.7	1.3	1	2	7															
35			2		1		I1	12.0	14.9	3.3	0	1	2			3	30											
36					2		I1	10.6	14.1	3.9	0	3	7			7	20											
39					3		III2	14.9	18.5	2.2	2	1	3			6	41											
43					1		II2	9.7	14.2	2.9	1	1	3			3	30											
44					5		I3	12.8	17.8	0.8	0	2	7			3	23											
45					1		III	15.2	17.1	2.6	1	1	4			1	10											
48					4		IV2	14.0	13.7	1.0	2	2	7			1	10											
49				1	1		II2	11.7	13.4	2.7	1	1	2			2	20											
52					2		II3	10.2	13.2	3.3	1	2	7			2	20											

* For definitions of descriptor codes see p. 27.

Table 40 (cont'd)

	Cultivar name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
56						2		III2	15.5	19.1	0.5	2	1	7			1	10											
58						2		I2	12.4	15.1	3.5	0	2	7			3	23											
59						2		I1	16.9	18.6	4.0	0	3	7			1	20											
60						3		II2	13.1	16.3	1.4	1	5	7			6	20											
66						2		I3	11.3	14.9	2.6	0	1	7			3	30											
67						3		III2	12.0	15.3	2.1	2	2	7			5	20											
72						2		I1	11.8	12.8	2.6	0	2	7			3	10											
73						5		IV2	12.2	18.3	0.9	2	4	2			6	14											

Table 41

DESCRIPTORS FOR YAM (DIOSCOREA ALATA) VARIETIES OF VANUATU

	Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
3				2	1	1	1c	2	1	2	2	1	2	1c	2	1	3	1	2	1	1					
9				1	1	1	1c	1	1	2	3	3	-	2c	3	2	3	2	3	1	1					
11				2	1	1	1	1	1	1	2	1	1	1	1	1	1	2	2	1	1					
13				1	1	1	1c	2	1	2	2	1	2	2c	1	2	3	1	3	2	2					
16				1	1	1	1c	2	1	2	3	3	-	3	3	2	3	1	2	1	1					
17				1	1	1	1	2	1	2	2	1	2	1c	2	1	2	1	1	1	1					
18				1	1	1	1	1	1	1								2	2	1	1					
23				1	1	1	1	2	1	2	2	1	2	2c	2	1	2	1	2	1	1					
25				1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1					
26				1	1	2	1c	2	1	3	2	2	2	2c	3	2	3	2	3	1	1					
27				1	1	1	1c	2	1	2	2	1	2	2c	1	2	2	2	3	1	1					
28				1	1	1	1c	2	1	2	2	1	2	2c	1	1	2	2	3	1	1					
30				1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1					
32				1	1	1	1	2	1	2	1	1	1	1	1	1	2	2	2	1	1					
33				1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	2	1	1					
34				1	1	1	1	2	2	2	2	1	2	2c	2	2	2	2	2	1	1					
35				1	1	1	1a	2	1	2	1	1	1	1a	1	1	2	2	3	1	1					
36				2	2	1	1c	2	1	2	3	3	-	2c	3	3	3	1	1	1	1					
38				1	2	1	1c	2	1	2	2	3	2	2c	3	1	3	1	1	1	1					
39				2	1	1	1c	1	1	2	2	1	2	1c	1	1	2	1	1	1	1					
40				2	2	1	1c	2	1	2	2	3	2	2c	3	2	3	1	1		1					
41				1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	3	1	1					
42				1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1					
43				1	1	1	1c	1	1	2	2	2	2	2c	3	2	3	2	3	1	1					
44				1	1	1	1c	2	1	3	2	2	2	2c	3	2	3	2	3	1	1					
47				1	1	2	1a	2	1	2	2	2	2	2a	2	1	2	1	3	1	1					
48				2	1	1	1	1	1	2	1	1	1	1	1	1	2	1	2	1	1					
49				1	1	1	1c	2	1	2	2	2	2	2c	2	2	2	2	3	1	1					
51				1	1	1	1c	2	2	2	3	2	-	2c	2	2	2	2	3	1	1					
54				1	1	1	1c	2	1	2	2	2	2	2c	2	2	3	2	3	1	1					
55				1	1	2	1	2	1	2	2	1	2	1	2	2	1	1	2	2	3					
56				2	1	1	1c	2	1	2	3	3	-	2c	3	2	3	1	1	1	1					

* For definitions of descriptor codes see p. 36.

Table 41 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
57				2	1	1	1	1	1	2	1	1	1	1	1	1	2	1	2	1	1					
59				1	1	1	1c	2	1	2	2	1	1	2c	1	1	2	1	2	3	2					
60				1	1	1	1	1			1	1	1	1	1											
61				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2					
62				1	1	1	1c	2	1	2	2	1	2	2c	2	2	2	2	2	1	1					
65				2	2	2	1c	2	1	3	3	3	–	3	3	3	3	1	1	1	1					
66				1	2	1	1c	2	1	1	3	3	–	2c	3	2	3	1	2	2	2					
68				1	1	1	1c	2	1	2	2	2	2	2c	3	1	2	1	2	1	1					
70				1	1	1	1a	2	1	2	2	1	2	1a	3	1	2	1	3	1	2					
73				1	1	1	1c	2	1	2	3	3	–	2c	3	2	2	2	2	1	1					
79				2	1	1	1	1	1	1	2	2	1	1	1	1	2	1	2	1	1					
81				1	1	1	1	2	1	2	1	1	1	1	2	1	2	2	3	1	1					
82				1	1	1	1c	2	1	2	2	1	2	1c	1	1	2	2	3	1	1					
84				1	2	1	1c	2	1	0	2	2	2	2c	3	1	3	0	3	2	2					
85				1	1	2	1a	2	1	0	2	2	2	2a	3	1	3	0	3	2	2					
87				2	1	1	1c	2	2	2	2	3	2	2c	2	2	3	2	3	1	2					
93				1	1	1	1c	2	1	1	2	1	2	2a	3	1	3	2	2	1	1					
94				2	1	1	1	2	1	2	2	1	1	1	1	1	2	1	2	1	1					
104				1	1	1	1c	1	1	2	2	2	2	2c	1	2	2	1	2	1	1					
106				1	1	2	1c	2	1	3	2	3	2	2c	3	2	3	2	2	1	1					
107				1	1	1	1c	2	1	2	2	2	2	2c	3	1	2	2	2	1	1					
109				1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1					
112				1	1	2	1a	2	1	0	1	1	2	1	2	1	2	0	2	2	2					
113				1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2					
114				1	1	1	1	2	1	2	2	2	2	1	2	2	3	2	2	1	1					
115				1	2	1	1c	2	1	1	3	3	–	2c	3	3	3	1	3	2	2					
116				2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1					
117				1	1	2	1a	2	1	3	2	2	2	1a	2	1	3	1	3	1	1					
120				1	3	2	1c	2	1	0	3	3	–	3	3	2	3	0	2	1	1					
124				1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	2	1	1					
125				1	3	2	1c	2	1	2	3	3	–	2c	3	2	3	2	2	1	1					
126				1	1	1	1	2	1	2	1	1	1	1	2	2	3	2	3	1	1					
137				1	1	1	1	2	1	2	1	1	1	1	2	1	2	1	2	1	1					
140				2	1	2	1	2	1	2	1	1	2	1	2	1	3	2	3	1	1					

Table 41 (cont'd)

Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
147			1	1	2	1	2	1	1	2	1	2	1	2	2	1	1	2	2	3					
148			1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	1					
151			2	1	1	1	1	1	2	2	1	1	1	1	1	2	2	3	1	1					
160			2	2	2	1c	2	1	3	3	3	–	3	3	3	3	2	2	1	1					
161			2	1	1	1	2	1	2	2	1	1	1	1	1	1	2	2	1	1					
162			1	1	1	1	2	1	2	2	1	1	1	2	2	2	1	2	1	1					
163			1	1	1	1c	2	1	2	2	3	2	2c	3	1	2	2	1	1	1					
164			2	1	1	1	2	1	2	2	1	2	1	2	1	2	1	1	1	1					
165			2	1	1	1c	2	1	2	2	2	2	2c	1	1	2	2	3	1	1					
166			1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	2	2					
167			1	1	1	1c	2	1	2	2	1	2	1c	1	1	2	1	2	1	2					
169			1	2	2	1c	2	1	0	3	3	–	3	3	2	2	0	3	2	2					
171			1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	1					
178			1	1	1	1c	2	1	2	2	1	2	1c	2	1	3	1	2	2	2					
180			1	3	2	1c	2	1	3	3	3	–	3	3	2	3	1	2	2	2					
181			2	2	1	1c	2	1	2	2	3	2	2c	3	2	2	2	2	1	1					
182			1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	1					
183			1	1	1	1a	2	1	2	2	1	2	1a	3	1	2	1	2	1	1					
184			1	1	1	1a	2	1	2	2	1	2	1a	2	1	3	1	2	1	1					
186			1	1	1	1c	2	1	2	2	3	2	1c	3	1	2	2	1	1	1					
187			1	1	1	1c	2	1	2	2	1	2	1c	3	1	3	2	2	1	1					
188			2	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	1	1					
189			2	1	1	1	1	1	2	1	1	1	1	2	2	3	2	3	1	1					
190			1	1	1	1a	2	1	2	2	1	2	1a	2	1	2	1	1	1	1					
191			1	3	1	1c	2	1	2	3	3	–	2c	3	2	3	1	2	1	1					
192			2	2	1	1c	2	1	2	3	3	–	3	3	3	3	2	2	1	1					
193			1	1	1	1c	2	1	2	2	1	2	2c	2	2	2	2	2	1	2					
194			1	1	1	1a	1	1	2	2	2	2	1a	1	1	1	2	1	2	1					
195			1	1	2	1	2	1	1	2	1	2	1	2	2	1	1	2	2	3					
196			1	3	2	1c	2	1	2	3	3	–	3	3	2	3	1	2	2	2					
197			1	3	1	1c	2	1	3	3	3	–	3	3	2	3	1	3	2	1					
198			1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	1	1	1					
199			1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	2	1	2					
200			1	1	1	1	2	1	2	1	1	1	1	1	1	2	2	1	2	1					

Table 41 (cont'd)

Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
201			1	1	1	1	2	1	2	1	1	1	1	1	1	2	2	2	1	1					
202			1	2	1	1c	2	1	2	3	3	–	2c	3	2	2	1	2	2	2					
203			1	1	1	1c	2	1	2	2	2	2	2c	1	2	2	1	1	1	1					
204			1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1					
220			1	3	1	1c	2	1	2	2	2	2	2c	2	1	2	1	2	2	2					
221			1	1	1	1	2	1	2	2	2	2	1c	2	1	3	2	2	1	1					
222			2	1	1	1c	2	1	2	3	2	–	2c	2	2	3	2	2	1	1					
223			2	2	2	1c	2	1	3	2	3	2	3	3	3	3	2	2	1	1					
224			2	1	1	1c	2	1	2	2	3	2	3	3	3	3	1	1	1	1					
225			1	1	1	1c	1	1	2	1	2	2	1a	2	1	2	2	2	1	1					
227			2	1	1	1	2	1	2	1	1	1	1c	1	1	2	1	1	1	1					
229			1	2	1	1c	2	1	2	3	3	–	2c	3	3	3	1	1	1	1					
231			1	1	1	1a	2	1	2	2	1	2	1a	3	1	2	2	2	1	1					
232			2	1	1	1c	2	1	2	2	2	2	1c	3	1	2	1	3	1	1					
235			2	1	1	1	2	1	2	1	1	1	1	1	1	1	2	3	1	1					
236			1	1	2	1c	2	1	3	2	2	2	2c	3	2	3	2	3	1	1					
238			2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1					
239			1	1	1	1c	2	1	3	3	3	–	2c	3	2	3	1	1	1	1					
240			2	1	1	1a	2	1	2	1	1	1	1	1	1	1	2	2	1	1					
241			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1					
242			2	1	1	1	2	1	2	1	1	1	1	1	1	2	2	2	1	1					
243			2	1	1	1c	2	1	2	2	1	2	1c	1	1	2	1	1	1	1					
244			2	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1					
245			2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1					
248			1	1	1	1	1	1	2	2	1	2	1a	2	2	2	1	1	1	1					
249			2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1					
252			1	3	1	1c	2	1	2	3	3	–	2c	3	2	3	1	1	1	1					
253			2	1	1	1c	2	1	2	3	3	–	3	3	2	3	2	2	1	1					
254			1	1	1	1	2	1	2	1	1	1	1	1	1	3	2	3	1	1					
256			2	1	1	1	1	1	2	1	1	1	1a	1	1	2	1	1	1	1					
257			1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	2					
258			2	1	1	1c	2	1	2	2	3	2	1c	3	1	2	1	3	1	1					
259			1	1	1	1a	2	1	2	2	2	2	1a	3	1	3	1	2	1	1					
264			1	1	1	1c	2	1	2	2	2	2	2c	1	2	2	2	3	1	1					

Table 41 (cont'd)

Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
266			1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	1					
268			1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	3	1	1					
269			1	1	1	1a	2	1	2	2	1	2	1a	2	1	2	1	2	1	1					
270			2	1	1	1	2	1	2	1	1	1	1	1	1	2	1	2	1	1					
271			2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
272			2	1	1	1	2	1	2	1	1	1	1	1	1	2	1	2	1	1					
273			1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	2	1	1					
274			1	1	2	1	2	1	2	2	1	1	1a	1	1	2	2	2	1	1					
276			2	1	1	1b	2	1	2	2	2	2	2c	3	1	2	1	1	1	1					
278			2	1	1	1	1	1	2	1	1	1	1a	1	1	2	1	2	1	1					
279			1	3	1	1c	2	1	2	3	3	–	3	3	2	3	2	2	1	1					
280			1	1	1	1c	2	1	2	2	1	2	1c	2	1	2	1	2	1	1					
281			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
283			2	1	1	1c	2	1	1	2	1	1	1a	1	1	1	2	1	1	1					
284			2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1					
285			2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1					
286			2	1	1	1a	2	1	2	2	2	2	1a	2	1	3	2	3	1	1					
287			1	1	1	1a	2	1	2	1	1	1	1a	1	1	2	2	3	1	1					
289			1	3	1	1c	2	1	3	3	3	–	2c	3	2	3	1	2	1	1					
290			1	1	1	1	2	1	2	1	1	1	1	2	1	3	2	2	1	1					
292			1	1	1	1c	2	1	2	2	1	2	2c	1	2	2	1	2	1	1					
294			1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1					
295			2	1	1	1c	2	1	2	2	3	2	2c	3	2	3	1	1	1	1					
296			1	1	1	1c	1	1	2	2	3	2	2c	3	2	3	2	3	1	1					
297			1	1	1	1	1	1	2	2	1	1	2a	2	1	2	1	1	1	1					
300			1	3	2	1c	2	1	2	3	3	–	3	3	2	3	1	2	2	2					
301			1	1	1	1a	2	1	2	2	3	2	1a	2	1	2	1	1	1	1					
302			1	1	1	1	2	1	2	1	1	1	1	2	1	2	2	2	1	1					
303			1	1	1	1c	1	1	2	2	1	2	1c	2	1	2	2	3	1	1					
304			2	1	1	1c	2	1	2	2	2	2	1a	1	1	2	2	2	1	1					
305			1	1	1	1	2	1	2	1	1	1	1	1	1	3	2	3	1	1					
306			2	1	1	1	2	1	2	1	1	1	1	1	1	2	1	2	1	1					
307			2	1	1	1a	2	1	2	2	1	2	1c	1	1	2	1	1	1	1					

Table 41 (cont'd)

	Cultivar name	Village	Island	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
308				1	1	1	1a	1	1	2	1	1	1	1a	2	1	2	2	3	1	1					
309				1	1	1	1c	2	1	2	1	1	1	1a	1	1	2	1	1	1	1					
310				1	1	1	1c	2	1	2	3	3	–	2c	3	1	3	1	2	1	1					
313				1	1	1	1a	2	1	2	2	2	2	2a	2	1	2	2	2	1	1					
314				1	1	1	1a	2	1	2	2	1	2	1a	2	1	2	1	2	1	2					
327				1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	2	1	1					
328				1	1	1	1	1	1	2	1	1	1	1a	1	1	1	1	1	1	1					
329				2	1	1	1a	2	1	2	2	2	2	2a	2	1	2	2	2	1	1					
332				1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1					
337				1	1	1	1a	2	1	2	2	3	2	1a	2	1	2	1	2	1	1					
339				1	1	1	1	2	1	3	2	1	1	1a	2	2	3	2	3	1	1					
341				1	1	2	1c	2	1	3	2	2	2	2c	3	2	3	2	3	1	1					
342				1	1	1	1	2	1	2	1	1	1	1	1	1	2	1	3	2	1					
343				1	1	2	1c	2	1	3	2	2	2	2c	3	2	3	2	3	1	1					
344				1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1					
345				2	1	1	1c	1	1	2	2	2	2	2c	2	2	2	2	3	1	1					
360				1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	1	1	1					
361				1	1	1	1c	2	1	2	2	3	2	1c	3	1	3	2	1	1	1					
362				1	1	1	1c	2	1	2	2	2	2	2c	3	1	3	1	2	1	1					
363				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
365				2	1	1	1	3	1	3	2	2	2	1	3	1	3	2	3	1	1					
368				2	2	1	1c	2	1	2	3	3	–	2c	3	2	3	1	1	1	1					

WESTERN SAMOA

Colocasia is the main root crop in Western Samoa; a small surplus being produced for export. Alocasia is also important. Xanthosoma and D. nummularia are grown on a small scale. Cassava and sweet potato are of little importance. The latter is considered too sweet for a staple food. Germplasm collections are held by USP/Institute for Research, Extension and Training in Agriculture (IRETA) at Alafua (Curator: Dr. J. E. Wilson, Senior Fellow) and by the Department of Agriculture, Forestry and Fisheries at Togitogiga Experiment Station. Both taro collections are described here (Table 43 and 44). Much agronomic work has been done at USP on Colocasia and there is an active breeding programme. The sweet potato (Table 45) and yam (Table 46) collections described here are at USP but there is a duplicate yam collection at Togitogiga. There are a number of IITA lines in the sweet potato collection but only one accession is definitely known to be from that source. The cassava collection described here (Table 42) is that at Togitogiga but there is a duplicate collection at Alafua. Accessions currently held by USP, accounting for virtually all the variability in the country, are as follows:

	Accessions
Cassava	13
Colocasia	28
Alocasia	19
Cyrtosperma (wild)	12
Xanthosoma	4
Amorphophallus (wild)	1
Epipramnun (wild)	1
Sweet potato	15
D. alata	12
D. nummularia	6
D. bulbifera	2
D. esculenta	2
D. pentaphylla	1

Cassava

Cassava cultivars 1 - 11 were evaluated in 1984 - 1985. Cultivars 3, 8 and 9 gave the highest tuber yields at both 10 and 12 months. Of these, 9 had the highest harvest index and the least number of tubers. Cultivar 3 seems to have extremely long tubers.

Taro (USP)

Niue is the main taro cultivar for export in Western Samoa. It is also, however, grown for local consumption, though Manu'a is preferred. Pa'epa'e is also widely grown. Niue and Pa'epa'e are probably the highest yielders. Tusitusi has far too many suckers but is somewhat Pythium-resistant. Cultivars F and 60 are like Tusitusi, but possibly have more Pythium resistance. The former is in tissue culture at Project Headquarters. Vale, Putemu and Pula Sama are also resistant to rot. Accession 4 (=41) is particularly early. Accessions 38 and 39 are probably duplicates. Fa'ele'ele, Manu'a, Niue and Pa'epa'e have been analysed by the ANU/ACIAR project. Fa'ele'ele had a high energy content; Pa'epa'e was high in protein.

Sweet potato

The highest yielders among the sweet potato accessions in the USP collection are 1, 2, 5, 6, 9, 10 and 11. Elite cultivars are to be meristem-cultured at PRI. Accession 5 is the cultivar called Hawaii in Tonga and Hawaiian in the Cook Islands. Accessions 12 and 13 are identical. Some elite IITA lines and seed have been introduced but can no longer be identified as such except for Ib08 which is TIS 5081.

Yam (D. alata)

The D. alata cultivars 10, 19 and 21 are considered to be the best, in terms of taste, tuber shape, tuber colour and ease of harvest. Accessions 10, 18 and 22 are probably the same cultivar.

Table 42

DESCRIPTORS FOR CASSAVA VARIETIES OF WESTERN SAMOA

Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Me01	1		1	2				2		2	3		3			1	2	0	2	2
Me02	4		1	2				4		1	3		2			1	2	0	2	2
Me03	3		1	2				1		2	3		3			1	2	0	2	2
Me04	4		1	2				2		1	3		2			1	2	0	2	2
Me05	4		3	2				2		2	3		2			0	2	0	3	2
Me06	4		1	2				2		1	3		2			1	2	0	2	2
Me07	4		1	2				2		1	3		3			1	2	0	2	2
Me08	3		1	2				2		3	3		3			0	2	0	2	2
Me09	4		1	2				1		2	3		1			2	4	0	2	1
Me10	4		1	2				2		2	3		2			0	5	0	3	2
Me11	4		1	2				1		2	3		1			1	2	0	2	1
Me12	4	0	1	2	5			2	1	2	2		2	1	1					2
Me13	3	0	1	2	5			4	1	1	2		1	1	1					1
Me14	3	0	1	2	5			1	1	1	2		2	1	3					1
Me15	3	1	1	2	5			1	1	1	2									

* for definitions of descriptor codes see p. 4.

Table 43

DESCRIPTORS FOR TARO (UNIVERSITY OF THE SOUTH PACIFIC) VARIETIES OF WESTERN SAMOA

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		0	1	1	1		3	0	2	2	2	4		4--	244	244	4		-				
CE01	Niue	0	1	1	1	1.49	3	0	2	2	2	1	2.37	241	241	2--	4	0.63	3	5	1	1	
CE02	Pa'epa'e	0	2	1	1	1.35	3	0	3	2	1	1	2.15	3--	124	124	1	0.66	3	2	1	1	
CE03	Manu'a	0	1	1	1	1.45	4	0	2	2	1	1	2.04	4--	243	243	1	0.66	3	5	1	1	
CE04	Manu'a Pinikai	0	1	1	1		3	0	2	2	2	1		4--	414	3--	1		-				
CE07	Tusitusi	0	4	3	0		3	0	1	1	1	0		1--	122	122	1		-		2		
CE09	Pula	0	2	1	1	1.50	3	0	2	2	1	1	2.00	241	2--	2--	2	0.62	-	1	2	1	
CE15	Pute nu Sauga	0	3	1	0		3	0	1	2	1	0		231	2--	2--			3				
CE17	Maga Uli	0	1	1	1		3	0	2	2	1	1		4--	2--	2--	1		-				
CE18	Fa'ele'ele	0	1	1	1	1.51	3	0	1	2	1	3		142	244	244	4	0.63	4	2	1	1	
CE38	Manu'a Tusitusi Uliuli	0	1	1	1		3	0	3	2	1	1		4--	423	423	1		3				
CE39	Manu'a Tusitusi Pa'epa'e	0	1	1	1	1.38		1	2	2	1	3	2.06	412	122	122	1	0.64	-	4	1	1	
CE41	Putemu Uliuli	0	2	1	1	1.43	3	0	2	2	2	1	1.99	4--	3--	311	1	0.62	3	1	1	1	
CE42	Sugale	0	2	3	1	1.35	2	0	1	2	1	3	2.16	413	2--	132	1	0.60	3	4	1	1	
CE43	Fa'ele 'ele Pula	0	4	1	1	1.31	3	0	1	2	1	1	2.12	131	233	231	1	0.58	3	1	1	1	
CE44	Pula Pa'epa'e	1	2	1	0	1.52	2	0	3	1	1	0	1.62	1--	124	124	1	0.70	-	1	1	1	
CE47		0	2	1	1	1.47	3	0	2	2	1	3	1.83	4--	131	131		0.57	3	5	2	1	
CE48	Manu'a Tusitusi Mumu	0	1	1	0		3	0	2	2	1	4		1--	2--	42-	4		-				
CE49	Vale	0	4	1	1	1.45	3	0	2	2	2	3	2.23	4--	243	233	4	0.60	3	2	1	1	
CE50	Vaevae Ula	0	1	1	1	1.33	3	0	1	2	1	0	2.22	143	241	232	1	0.62	3	2	1	1	
CE54		0	2	1	1	1.48	3	1	1	1	1	0	2.15	232	212	212	1	0.62	3	1	1	1	
CE57		1	0	1	0		3	0	2	1	1	0		1--	1--	1--	1		-				
CE59		1	1	1	0		3	0	2	1	1	0		1--	1--	1--	1		-				
CE60		0	3	3	0		3	0	1	1	1	0		1--	122	122	1		-				
CE61		0	1	1	0		3	0	1	1	1	1		212	212	212	1		-				
D		0	1	1	0	1.37	3	0	2	2	1	1	2.35	4--	422	322	4	0.59	3				
E		0	2	1	0	1.50	3	0	2	2	1	1	2.28	4--	2--	2--	4	0.66	3	2	1	1	
F		0	4	3	0	1.42	3	0	1	1	1	4	2.42	1--	122	122	1	0.63	-	6	2	1	

* For definitions of descriptor codes see p. 13.

Table 44

DESCRIPTORS FOR TARO VARIETIES (MAFF) OF WESTERN SAMOA

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CE01	Laumeamata	0	4	1	1	1.47	3	0	1	2	1	1	2.05	241	2--	2--	1	0.58	-	6	2	1	1
CE02	Sasa Uli	1	3	1	1	1.41	4	0	1	2	1	3	2.02	4--	4--	4--	1	0.68	-	5	1	1	0
CE03		0	2	1	1	1.31	3	0	2	2	1	3	1.89	4--	4--	243	1	0.63	3	3	1	1	0
CE04	Pa'epa'e	0	2	1	1	1.36	3	0	2	2	1	3	2.03	3--	231	231	1	0.64	-	1	1	1	1
CE05	Tusitusi	0	4	3	0	1.70	3	0	1	1	1	0	2.34	122	122	122	1	0.67	-	3	2	1	1
CE06	Vaevae Ula	0	2	1	0	1.34	3	0	1	2	1	1	2.49	231	231	242	1	0.62	-	1	1	1	0
CE07	Pula Mumu	0	3	1	1	1.33	3	0	1	2	2	3	2.20	311	311	3--	4	0.60	-	4	1	1	0
CE09	Putemu	0	2	1	1	1.51	3	0	1	2	2	4	2.42	3--	241	2--	4	0.53	3	2	1	1	0
CE11	Tusitusi Lanumoana	0	1	1		1.39	3	0	2	2	1	1	2.02	144	142	122	1	0.66	3	5	1	1	0
CE12	Sasa Uli Mumu	0	2	1	1	1.43	3	0	1	2	1	3	2.30	423	423	424	4	0.66	3	2	3	1	1
CE13	Tusitusi Lanumeamata	0	2	1	0	1.56	3	0	1	1	2	1	1.82	122	122	122	1	0.67	3	4	1	1	0
CE14	Pula Lefu	0	2	1	1	1.43	3	0	1	2	2	1	1.81	141	141	2--	1	0.73	-	6	2	1	0
CE16	Niue	0	3	1	1	1.53	3	0	1	2	2	1	1.97	243	243	243	4	0.68	3	1	5	1	0
CE17	Maga Siva	0	1	1	1	1.42	3	0	1	1	1	4	2.02	1--	1--	1--	1	0.59	-	7	2	1	1
CE18	Maga Uli	0	2	1	1	1.46	4	0	1	2	1	1	1.59	231	231	2--	4	0.65	-	1	5	1	1
CE19	Manu'a	0	1	1	1	1.41	4	0	1	2	1	1	2.27	423	4--	4--	1	0.67	-	4	1	1	0
CE24		0	3	1	1	1.48	4	0	1	2	1	3	1.83	2--	2--	2--	1	0.68	-	2	1	1	0
CE25	Vale	1	4	1	1	1.52	3	0	1	2	2	2	2.18	231	231	231	4	0.63	-	4	1	1	0
CE26		0	1	1	1	1.40	3	0	1	2	1	1	2.50	422	422	322	4	0.60	-	2	1	1	1
CE27	Pula Pa'epa'e	0	3	1	1		3	0	1	2	1	1		3--	3--	3--	1		-	1	2	1	0

* For definitions of descriptor codes see p. 13.

MAFF: Ministry of Agriculture, Forestry and Fisheries

Table 45

DESCRIPTORS FOR SWEET POTATO VARIETIES OF WESTERN SAMOA

	Cultivar name	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Ib01		1	2	2	1	5	0	IV1				2	1	5	2	2	1	14	0										
Ib02		1	2	2	2	1	1	I1				0	3	1	2	1	1	10	0										
Ib03		1	2	2	2	3	3	III2				2	2	5	1	1	7	20	2	4			1	1	3		1	2	1
Ib04		1	2	2	1	3	1	IV1				2	5	5	2	1	5	20	0										
Ib05		1	2	2	1	1	0	IV2				2	2	5	2	1	1	41	0										
Ib06	TIS 5081	1	2	2	2	1	1	III2				2	2	1	2	1	1	30	0										
Ib07		1	2	2	3	1	1	III2				2	2	5	2	1	5	23	2	1			1	1	3		1	2	1
Ib08		1	2	2	2	3	0	II2				1	2	1	3	1	5	20	0										
Ib09		1	2	2	2	3	0	III2				2	2	5	3	1	4	23	0										
Ib10		1	2	2	2	1	1	III2				2	5	1	2	1	4	23	0										
Ib11		1	2	2	2	1	0	III2				2	5	1	2	1	6	10	0										
Ib12		1	2	2	3	1	1	III2				2	2	1	3	1	1	23	0										
Ib13		1	2	2	3	1	1	III2				2	2	1	3	1	1	23	0										
Ib14		1	2	2	2	5	0	I1				0	5	5	3	3			0										
Ib15		1	2	2	2	1	1	I1				1	5	1	3	1			0										

* For definitions of descriptor codes see p. 27.

Table 46

DESCRIPTORS FOR YAM (DIOSCOREA ALATA) VARIETIES OF WESTERN SAMOA

Cultivar name	Village	Island	* 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Da10			1	1	1	1c	2	1	2	1	1	1	1a	1	1	1	2		1	1	1	2	1		N
Da16			1	3	1	1c	2	1	2	2	2	2	2c	2	1	2	1		2	1	5	4	2	2	Y
Da17			1	1	1	1c	2	1	2	2	1	2	1c	2	1	2	1		2	1	6	2	3	1	N
Da 18			1	1	1	1c	2	1	2	1	1	1	1a	1	1	1	2		1	1	1	2	1		Y
Da19			1	1	1	1	2	1	2	2	1	1	1a	1	1	2	2		1	1	1	2	2		Y
Da20			1	3	1	1c	2	1	2	3	3	-	2c	2	1	2	2		1	1	5	5	2	1	Y
Da21			1	1	1	1	2	1	2	1	1	1	1	1	1	1	2		1	1	1	3	2	2	N
Da22			1	1	1	1c	2	1	2	1	1	1	1	1	1	1	2		1	1	1	3	1		N
Da24			1	2	1	1c	2	1	2	2	2	2	1c	2	1	2	2		1	1	5	2	1		N
Da25			1	1	2	1	2	1	2	2	1	2	1	2	2	1	1		2	1	2	4	1		Y
Da26			1	1	1	1a	2	1	2	2	1	2	1a	2	1	2	2		1	1	1	3	1		Y
Da27			1	1	1	1a	2	1	2	1	1	1	1	1	1	2	2		2	1					

* For definitions of descriptor codes see p. 36.

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APPENDIX 1

OTHER FIELD DOCUMENTS IN THIS SERIES

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Passera, C. A root crop bibliography. Suva, Fiji, 1984. FAO. RAS/83/001, Field Document 4. 112 p.

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