



Insertions and Deletions: Evolution in the Assemblage of Vietnamese Food Plants

My Lien Thi Nguyen

Research

Abstract

An analysis of taxa used and that are salient to Vietnamese in Hawai'i compared with southern Vietnam reflects an evolution of the assemblage of food plants demonstrated by substitutions, insertions, and deletions of plant taxa. Replications occur as the Vietnamese in Hawai'i have access to many similar plant taxa as those in Vietnam, possibly due to the location of Hawai'i as a place where similar food plants can grow and due to a large Asian population. Food plant taxa were elicited from interviews and recorded during participant observations. The current scientific botanical nomenclature and taxonomic groupings, plant life form or part utilized, the southern and many northern Vietnamese vernacular names with diacritical markings, and the English and French translations are provided for over 200 food plants. An introduction to Vietnamese diacritical writing and vernacular botanical nomenclature is included.

Introduction

Despite nearly 30 years of influence on the food, market, and garden flora of the United States, our knowledge of the food plants used by the Vietnamese is only preliminary (Airriess & Clawson 1994, Kuebel & Tucker 1988, Nguyen 2003, 2005, Owens 2003). Furthermore, while other waves of Asian immigrants (e.g., Chinese, Japanese, and Filipino) have introduced their foods there are no current published surveys of food plants sold in Asian markets in the United States although there are older reports (Chung & Ripperton 1929, Miller 1933, Porterfield Jr. 1951).

From recent reports involving Vietnamese economic and ethno- botanical studies in Vietnam (Ogle *et al.* 2003, Tanaka 2004) and in the United States (Owens 2003, Staples & Kristiansen 1999), it is evident that there is a need for a reference of accurate scientific and Vietnamese plant names. The main issue is the absence or misuse

of diacritics when writing Vietnamese words. If one understands that a single stroke of the pen can change the meaning of a word from "melon fruit" to "coconut palm", one would agree that it is important to not only record, but also to share and report the accurate name. Such is the case with the names of plants in the Vietnamese language. As a native speaker and an ethnobotanist, I contend the unambiguous understanding and use of Vietnamese vernacular botanical nomenclature for laying a solid foundation for the field.

The purposes of this report are: 1) to identify food plants salient to Vietnamese in Hawai'i and southern Vietnam, 2) to analyze the plant taxa elicited through interviews in order to test the hypothesis that an 'evolution' in the assemblage of food plants salient to Vietnamese in Hawai'i has occurred as demonstrated by plant substitutions, insertions, and deletions, and 3) to provide a reference of scientific and vernacular names of food plants used by Vietnamese people that (i) is current in botanical nomenclature and taxonomic groupings, (ii) is accurate in the diacritical and tonal Vietnamese vernacular names of plants, and (iii) provides English and French vernacular

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names for cross-referencing research. I provide information for typing diacritic Vietnamese fonts at the end of this paper to facilitate accurate and efficient research and reporting.

Vietnamese Language and Vernacular Botanical Nomenclature

The Vietnamese language

Vietnamese is the national language of the Socialist Republic of Vietnam and of the **Kinh** or **Việt** ethnic group that represents the majority of diasporic Vietnamese. Vietnamese is only one of the over 90 languages spoken by the 54 ethnic groups in Vietnam but it is spoken by nearly 90% of the population. The northern (NV), central, and southern (SV) dialects are reflected by numerous examples of multiple vernacular names for a single subject and pronunciations for a single word. With the Vietnamese diaspora, the language is spoken everywhere they have settled throughout the world (SIL 2004).

Vietnamese diacritics and their importance in plant names

The Vietnamese language incorporates a system of diacritical marking that are applied to the vowels **a**, **â**, **ã**, **e**, **ê**, **i**, **o**, **ơ**, **u**, **ư**, and **y**. The alphabet also includes the consonant, “**đ**.” This “**đ**” is pronounced similarly to the English “**d**,” as in the word “**dog**.” In contrast, the Vietnamese letter “**d**,” while written the same as the English “**d**,” is actually pronounced as the English “**z**,” as in “**zebra**” (NV) or “**y**,” as in “**yellow**” (SV). These diacritics are used to designate tones in spoken words and are requisite in distinguishing the meanings of otherwise similarly spelled words (Table 1). This indispensable use of diacritics to distinguish meaning is also present in the Vietnamese botanical nomenclature (Table 2). See Đinh (1976) for an in-depth analysis of the botanical nomenclature, including the Chinese and French influences.

Table 1. Tones and diacritical marks used in Vietnamese writing. Examples of their application for “**ma**” and the corresponding English translations.

Tone	Diacritic	Vietnamese	English ^a
mid-level	none	ma	funeral
high-rising	ˊ	má	mother
low-falling	ˋ	mà	but
high-rising-glottal	ˊ~	mã	horse
low-falling-rising	ˊˋ	mả	grave
low-falling-glottal	ˋ~	mạ	rice seedling

^aEnglish translation according to the first usage in Nguyễn and Nhóm's (2000) Vietnamese-English dictionary.

In fact, it is the French that have been most diligent (for non-Vietnam based scientists) in using diacritics in their Vietnamese botanical research. French researchers compiled extensive Vietnamese botanical literature and specimens due to France's colonization of and economic interests in Vietnam. Vietnamese names were recorded: (1) on many herbarium vouchers collected during botanical explorations (e.g., a rice cultivar (in this case with a French translation): “**lúa bông giầu, fleur de múrier**” on voucher 14 March 1869, *Oryza sativa* var. *mutica* Pierre 122 P!); (2) in publications concerning botany in Vietnam (cf., Crestovost *et al.* 1917-1941, Đinh 1981); and (3) in publications concerning the ethnobotany of the Vietnamese in France (Simon & Simon-Barouh 1972, Walujo 1985).

Important as it is, few have been as careful in their employ of Vietnamese plant names as the French (Hodel *et al.* 1999, Kuebel & Tucker 1988, Nguyen 2003, 2004, 2005). This is notable due to the recent increase of Vietnamese ethnobotanical publications, both from studies in Vietnam (Ireson & Ireson 1996, Nguyen 2000, Ogle *et al.* 2003, Tanaka 2004) and in the United States (Airriess & Clawson 1994, Corlett *et al.* 2003, Nguyen 2000, Owens 2003, Staples & Kristiansen 1999). This increase in Vietnamese research is a contribution towards balancing a historically American continent dominated focus in ethnobotanical research publications (American continent > 40% vs. Asia <25% (Cotton 1996)). At this stage in particular, it is counterproductive for progress, to publish reports less than complete with the diacritical language. Reasons for not using diacritics include: (1) confusion regarding their correct application; (2) lack of reliable, comprehensive references to check Vietnamese names; and (3) technology difficulties (i.e., incompatible language programs and formatting difficulties in word processing programs) (personal communication, R. Owens 2003, and G. Staples 2000).

Table 2. Changes in the botanical meaning of the word “**dua**” with the application of diacritical marks. Example for the consonants, “**đ**” and “**d**” and the vowels “**u**” and “**ư**”.

Consonant and Vowel	Diacritic	Vietnamese Generic	English or Latin ^a
đ + u	none	đuá	to compete
d + u	none	dua	no meaning
d + ư	none	dũa^a	<i>Cucumis</i> or <i>Citrullis</i>
	ˊ	đuá^a	<i>Ananas</i>
	ˋ	dũa^a	Cocos
	ˊ~	dũa^a	no meaning
	ˊˋ	dũa^a	no meaning
	ˋ~	dũa^a	to lean

^aAs applied with the prefix “**trái**” meaning a fruit (e.g., **trái dũa**, *Cucumis* fruit).

Vietnamese vernacular botanical nomenclature

Vietnamese vernacular botanical nomenclature may be generalized to glosses based on: (1) large taxa defined by plant form or structure utilized (Atran 1990) (Appendix A); (2) generic ranks; and (3) specific "species" or "varieties" (Berlin 1992) that may be labeled as binomials. Examples of plant names based on form or part utilized include **nấm** (mushroom), **rau** (leafy vegetable), and **trái** (fruit). Examples of generic names include **dưa** (*Cucumis*), **chuối** (*Musa*), and **cải** (*Brassica*). Examples of specific names include **dưa chuột** (*Cucumis sativa* L.), **chuối hột** (*Musa balbisiana* Colla.), and **cải ngọt** (*Brassica rapa* susp. *chinensis* (L.) Hanelt). The plant form or part utilized is also a prefix that in some cases may designate the generic name. Examples include **nấm mèo**, for the tree-ear fungus (*Auricularia* sp.), and **trái dưa chuột**, the fruit of cucumber (*C. sativa*).

The prefix is important in cases where two species of different genera or even families share a generic name. An example is the generic name **dứa** (different from **dưa** without a rising-tone diacritic) (see Table 2). The examples in Table 2 refer to meaning when combined with the prefix for a fruit, as in **trái dứa** (SV), referring to the fruit of *Ananas comosus* (L.) Merr. When it is combined with the prefix for leaf, as in **lá dứa**, it refers to the scented leaves of *Pandanus amaryllifolius* Roxb. used in cooking.

A single species may be referenced by different vernacular names corresponding to its use at different developmental stages or to distinguish the part utilized. This is well illustrated in the seeded banana, **cây chuối hột** (tree + *Musa* + seed). The staminate inflorescence, referred to as **bắp chuối** (SV) ("**bắp** describes its oblong shape) or **hoa chuối** (NV) ("banana flower") and the young, green fruits, **trái chuối chát**, (fruit + banana + astringent taste) are used as raw vegetables. The fully developed seeded fruits, **trái chuối hột**, are dried and used medicinally. While the leaves, **lá chuối**, are valued for their use as a food wrapping, especially for cooking glutinous rice preparations.

Many plants introduced during the French colonial period were named with a Vietnamese life form or generic name followed by a Vietnamese version of the French name. Adopting and modifying foreign names of introduced plants is common in indigenous cultures (cf. McClatchey *et al.* 2000). To illustrate, the Vietnamese name for *Daucus carota* L., **củ cà-rốt**, is the result of combining the Vietnamese term for a root crop, bulb, or rhizome, **củ**, with the French **carotte**. Some introduced plants that are morphologically similar to traditional plants have names that reflect this morphology (e.g., **măng tây**, literal translation, "bamboo shoot of the French (or west)," otherwise known as *Asparagus officinalis* L.). The descriptor **tây**, meaning "west," was used to designate plants introduced by the French.

Writing Vietnamese diacritical characters

The Vietnamese diacritical characters in this manuscript were written in "Unicode." Writing diacritics was once problematic due to formatting and word processing difficulties. These problems have been overcome by the use of Unicode fonts and Vietnamese language programs. The Unicode Standard is an international character coding system designed to support the worldwide interchange, processing, and display of written texts of diverse languages (UNICODE 1991-2004). A number of Vietnamese language fonts and programs using Unicode are available and free to download from the Internet (UNIQUEY 1991, VPS 1993-2001). Unicode characters are also available as standard symbols in Microsoft® Word and are supported by a number of applications (e.g. EndNote® 8 and newer versions). I recommend using the Unicode Standard for Vietnamese fonts (inserted either from Microsoft Word's "Insert - Symbols" menu or as the Unicode option in the font program of choice). Both methods are broadly available and transferable without formatting corruption.

Methods

Study period and sites

The food plant list presented here was compiled as part of my dissertation research on food plant knowledge and practices of Vietnamese in the United States and in Vietnam. The research was conducted from January 2002 through April 2004 in Honolulu, Hawai'i, and Biên Hòa, Vietnam. The two locations are comparable based on the following: (1) Honolulu has an established population of Vietnamese people; (2) many Vietnamese immigrants in Honolulu are originally from southern Vietnam (Nguyen 1977); (3) Biên Hòa is in southern Vietnam (ca. 30 km north of Ho Chi Minh City); and (4) both locations are urban environments with food markets (i.e., open air markets selling food plants).

Interviews and participant observation

Ethnographic, structured interviews (Spradley 1979) with informed consent (Alexiades 1996) using questionnaires (Martin 1995) were conducted with Vietnamese men and women at least 18 years of age to collect data on food plant use and culinary habits. Interviewees were selected by snowball sampling (Bernard 2002) initiated with a Vietnamese immigrant woman in Honolulu and a Vietnamese woman of similar age in Vietnam. A free listing technique was used to obtain food plant species known and used by each interviewee (Martin 1995). Food plants were demarcated by three uses: (1) "vegetables" (**rau cải**), defined as any plant part or life-form of the plant that can be eaten and is often not sweet compared to most fruits of plants (e.g., leaves, stems, corms, and mature or immature fruits of the Cucurbitaceae and Solanaceae families), (2) "fruits"

(*trái cây*), the developed ovary of a seed plant that may contain seeds, and (3) “spices and other ingredients for preparing food” (*nguyên liệu gia vị*), a plant or non-plant substance that is used to add aromatic, pungent, salty, or other additional seasoning to foods.

Participant observation (Spradley 1980) with informed consent was conducted with members of the Vietnamese communities in private homes and at public events to observe plants actually being used. This was to supplement plant data from the free-lists and to record those not listed in the interviews.

Plant collections

Vouchers of plants recorded in Hawai'i and Vietnam were collected in triplicate from some home gardens, but mostly from the produce markets of Chinatown, Honolulu (Hawai'i) and Biên Hòa (Vietnam) (Bye 1986b, Martin 1995). Vouchers were deposited at the herbaria of the University of Hawai'i (HAW) and the Institute for Ecology and Biological Resources (HN) in Hà Nội (Hanoi), Vietnam. Plants in home gardens represented by few individuals were collected singularly or in duplicate only. These specimens are deposited only at HAW. Some vouchers were recorded using only digital photography.

Many of the plants were cultivated species for which their identification is commonly known. Others were identified using the most comprehensive flora of Vietnam currently available (Phạm 1999, 2000, 2003). Specimen identifications have been confirmed by staff of BISH and HN. Accepted scientific names and the associated authorities were checked using the Missouri Botanical Garden's (n.d.) VAST (VAScular Tropicos) nomenclatural database accessed via W3TROPICOS. Current botanical family-placement was verified using APG II (2003) and the continuously updated electronic resource, the Angiosperm Phylogeny Website (Stevens 2001 onwards). The Vietnamese plant names recorded from the interviews were cross-checked using Phạm (1999, 2000, 2003) and if not included then checked in (Võ 2003). English and French names are those that occurred in descriptions of plants in Phạm (1999, 2000, 2003) and in Crevost and Lemarié (1917). Where these did not provide an English or French equivalent, some common names were available via the Multilingual Multiscript Plant Name Database (Porcher 1995-2020).

Plant taxa analysis

Descriptive statistics were used to identify plant taxa in each use-group (i.e., vegetables, fruits, and spices and other ingredients) that were listed most frequently for Hawai'i and Vietnam grouped interviews. The lists and taxa recorded during participant observations in Hawai'i and Vietnam were used to identify taxa substituted, inserted (added), and deleted (not used) in Hawai'i.

Results

Interviews

Interview responses were grouped by location, Vietnam or Hawai'i. Interviewee demographics were recorded (i.e., gender, age, occupation). As the main purpose of this report is to identify the assemblage of plant taxa used by Vietnamese location rather than the differences in plant knowledge potentially due to social characteristics (Zent & Zent 2004), an analysis based on these demographics is not included in this paper and will be discussed in a separate paper. In both locations, I began to reach a point of diminishing returns (few or no new species listed) (Martin 1995) with approximately 30 interviews. In Biên Hòa there were a total of 41 (26 female, 15 male) interviewees. In Honolulu, there were a total of 34 (25 female, 9 male) interviewees. I believe the reason for there being more female than male interviewees is due to (1) my being female and Vietnamese and (2) the snowball method used to find interviews. As a middle aged Vietnamese woman, it is culturally easier and more appropriate for me to meet and talk with women. I believe my use of the snowball sampling method resulted in higher numbers of female interviewees because the person identifying another to be interviewed often identified a friend or relative of the same gender. Interviewees from Biên Hòa listed a total 143 taxa of food plants, which included 90 taxa referred to as “vegetables” or “spices” and 53 taxa as “fruits.” While in Honolulu, 67 and 43 taxa were listed for the same food plant groups.

Vietnamese food plant assemblage

The Vietnamese food plants (Appendix B) represent a compilation of the plants recorded from structured and participant interviews in Honolulu, Hawai'i and Biên Hòa, Vietnam. The checklist has been prepared with the scientific family names and Latin binomials. In some cases, taxa and names are different from those in the floras and other recent literature on food plants of Vietnam. Plant families are presented in alphabetical order so that the checklist may be most accessible to a variety of users. Fungi appear at the end of the list. Within families, genera and species are presented in alphabetical order, followed by Vietnamese names, in different dialects where applicable, and if available, in English and French. The French names are provided to facilitate research and use of the extensive French literature concerning Vietnamese economic plants. Also listed for each species is the plant part or life form reported as being utilized by informants.

Plant taxa analysis

Plant taxa lists from Hawai'i and Vietnam were used to order the frequency of taxa demarcated by the three uses:

(1) “vegetables” (**rau cải**) (Table 3), (2) “fruits” (**trái cây**) (Table 4), and (3) “spices and other ingredients for preparing food” (**nguyên liệu gia vị**) (Table 5). The vegetables and fruits tables display the top 30% of the most frequently listed plants and are discussed in the next section. The spices table includes only the order of frequency due to missing data.

Taxa substituted, inserted (added), and deleted (not used) in Hawai'i are identified using a case studies approach. The purpose of this method is to allow for a detailed culturally informative discussion of a few notable examples and their traditional use in Vietnam compared to contemporary use or in Hawai'i.

Discussion

Site bias

Due to the locations of the study sites, Hawai'i and southern Vietnam, the checklist produced may be representative of plants most salient to Vietnamese of southern Vietnam origin and living in a subtropical U.S. environment with a large East and Southeast Asian population. If this study was carried out in northern Vietnam or a northern U.S. city including different demographics, the checklist produced may include different species representative of those different climatic areas and cultural make-up.

Table 3. Most frequently listed vegetables in interviews from Biên Hòa, Vietnam and Honolulu, Hawai'i. (Approximately top 30%)

Species	Vegetables	
	%	
	Biên Hòa, Vietnam	Honolulu, Hawai'i
<i>Brassica oleracea</i> var. <i>capitata</i>	39	50
<i>Brassica rapa</i> subsp. <i>chinensis</i>	37	40
<i>Daucus carota</i>	37	33
<i>Ipomoea aquatica</i>	63	70
<i>Lactuca sativa</i>	54	47
<i>Lycopersicon esculentum</i>	32	
<i>Mentha aquatica</i>	-	30
<i>Ocimum basilicum</i>	-	43
<i>Raphanus sativus</i> Longipinnatus Group	-	30
<i>Rorippa nasturtium-aquaticum</i>	29	-
<i>Solanum tuberosum</i>	29	-

Plant taxa descriptions

The list of Vietnamese food plants includes over 200 taxa. More taxa were added to the list or assemblage of food plants from recordings of plants observed to be used during participant observation interviews. The majority of species represent the Brassicaceae, Cucurbitaceae, Fabaceae, and Poaceae families. Species in Rutaceae and Musaceae are used most frequently for their sweet fruits. Fungi and algae are used infrequently. They were never listed in structured interviews but were observed being used during participant interviews. The fungi observed are included in the checklist. Due to the infrequency of algae use, I did not collect algae and only mention here their Vietnamese life-form term, **rong**.

The most frequently listed vegetables (Table 3) include *Ipomoea aquatica* (L.) Lam., in both Biên Hòa and Honolulu, *Lactuca sativa* L., second most frequent in Biên Hòa and third most frequent in Honolulu, and *Brassica oleracea* var. *capitata* L. (cabbage), third most frequent in Biên Hòa and second most frequent in Honolulu. *Ipomoea aquatica* is a traditional vegetable eaten throughout Vietnam. It's saliency in the Vietnamese culture is illustrated through proverbs associated with the vegetable. That it is also highly salient in Hawai'i may be an artifact of the location. *Ipomoea aquatica* is an important and popular food plant for other Asian groups in Hawai'i as well. It was noted as one of the early introductions by Asian immigrants to Hawai'i long before the Vietnamese came (Chung & Ripperton 1929). *Lactuca sativa* and *B. oleracea* are common food plants that are in both locations. Other vegetables that were frequently listed in both locations include *Brassica rapa* subsp. *chinensis* (L.) Hanelt and *Daucus carota*.

Vietnamese in Honolulu more often list aromatic herbs (e.g., *Ocimum basilicum*, *Mentha aquatica*) as vegetables than respondents in Biên Hòa. This raises questions about the understandings and demarcations of food categories by respondents in the two locations. Indeed, the English term “vegetable” and the closest Vietnamese translation, **rau cải**, are not equivalent in their inclusion of food plants. “Vegetable” is often understood as, and was defined in this study as any plant part or life-form of the plant that can be eaten and is often not sweet compared to most fruits of plants (e.g., leaves, stems, corms, and mature or immature fruits of the Cucurbitaceae and Solanaceae families). In comparison, **rau cải** is not as comprehensive. Though, generally understood as “vegetables,” **rau cải** more specifically refers to leafy and stem vegetables. People may not consider other plant forms. For example, corms are generally referred to as **củ**, or **củ cải**, referring to the swollen roots of plants also eaten as leafy vegetables. While aromatic herbs were included in the most salient vegetables for Vietnamese in Honolulu, the same was not true for those in Vietnam. This category, **rau thơm**, meaning “aromatic leafy vegetables” includes herbaceous plants such as cilantro (*Coriandrum sativum* L.) and those in the mint

family (Lamiaceae) including mints (*Mentha* spp.) and basil (*Ocimum basilicum* L.). **Rau thom** refers to those plants usually eaten raw as a garnish or included in the common table salad, **rau sống** (raw or uncooked vegetables that may also include raw non-leafy foods, particularly cucumbers [*Cucumis sativus* L.]). Even with these difficulties, most interviewees seemed to understand that I was interested in the broad definition of **rau cải** and included a range of “vegetables” in their listing.

Responses to listing fruits (Table 4) or **trái cây** came much easier for the interviewees. Pomelo (*Citrus maxima* (Burm. ex Rumph.) Merr.), durian (*Durio zibethinus* Rumph. ex Murray), and a common orange (*Citrus sinensis* (L.) Osbeck) are among the top three fruits named in Biên Hòa. In Honolulu, the common orange is listed most frequently, followed by apples (*Malus* sp.) and then mangoes (*Mangifera indica* L.). *Citrus. maxima* was also frequently listed in Honolulu but at a lower percentage than in Biên Hòa. Other frequently listed fruits shared between the two locations include *Musa* sp., *Vitis* sp., and *Carica papaya* L. Similar to the responses in Biên Hòa, *D. zibethinus* and *C. reticulata* are highly salient to those respondents in Honolulu, although they appear just below the 30% frequency of listing. As with the vegetables listed, the fruits results are also probably due to site bias. This is particularly so for fruits such as mangoes and pomelos that are common

Table 4. Most frequently listed fruits in interviews from Biên Hòa, Vietnam and Honolulu, Hawai'i. (Approximately top 30%)

Species	Fruit	
	%	
	Biên Hòa, Vietnam	Honolulu, Hawai'i
<i>Artocarpus heterophyllus</i>	37	-
<i>Carica papaya</i>	34	47
<i>Citrullus lanatus</i>	34	-
<i>Citrus maxima</i>	54	30
<i>Citrus reticulata</i>	46	27
<i>Citrus sinensis</i>	51	82
<i>Dimocarpus longan</i>	32	
<i>Durio zibethinus</i>	51	27
<i>Malus domestica</i>		73
<i>Mangifera indica</i>	49	73
<i>Musa</i> sp.	41	63
<i>Nephelium lappaceum</i>	34	-
<i>Psidium guajava</i>	37	-
<i>Pyrus</i> sp.	37	-
<i>Spondias cytherea</i>	37	-
<i>Vitis</i> sp.	41	33

to Hawai'i but may not be as common in temperate U.S. cities.

Comparing the two sites reveals that the Vietnamese in Vietnam have a greater diversity of fruits most salient or commonly used than Vietnamese in Honolulu. For the top 30%, 15 species of fruits were listed in Biên Hòa compared to seven in Honolulu. Thus, the Vietnamese in Honolulu use more frequently a smaller assemblage of fruits than Vietnamese in Biên Hòa even though many of the same fruits are available in both locations.

Due to initial difficulties I faced in my data collection for spices or ingredients used to season foods, I do not compare the percentage values of responses from Hawai'i with those from Vietnam here. A preliminary review (Table 5) indicates the spices most commonly listed in both locations include black pepper (*Piper nigrum* L.), chilies (*Capsicum annuum* L.), garlic (*Allium sativum* L.) and onions (*Allium cepa* var. *cepa*) in Hawai'i or shallots (*Allium cepa* var. *aggregatum* G. Don) in Vietnam. The first three spices are ingredients used to make **nước chấm**, the ubiquitous dipping sauce made with **nước mắm** (fish sauce). In Vietnam and Asian markets in the United States these plant ingredients, along with onions (*Allium* spp.) and limes [*Citrus x aurantiifolia* (Christm.) Swingle], are usually sold side-by-side by a single vendor providing a “one-stop shopping” situation (Figure 1). Thus Vietnamese in Hawai'i have maintained this assemblage of spice plants, except where onions are used more frequently in Honolulu as opposed to shallots in Vietnam. Vietnamese have reported the shallots are sweeter than the larger onions. This may be a substitution of onion species by Vietnamese in Hawai'i possibly due to the greater availability of the larger onions in U.S. markets.

Table 5. Seven most frequently listed spices in interviews from Biên Hòa, Vietnam and Honolulu, Hawai'i. Listed by order of frequency in each location (1=most frequent).

Species	Spices	
	Order	
	Biên Hòa, Vietnam	Honolulu, Hawai'i
<i>Allium cepa</i> var. <i>cepa</i>	-	4
<i>Allium cepa</i> var. <i>aggregatum</i>	4	-
<i>Allium fistulosum</i>	6	5
<i>Allium sativum</i>	3	1
<i>Capsicum annuum</i> var. cf. <i>longum/frutescens</i>	2	3
<i>Citrus x aurantiifolia</i>	5	6
<i>Cymbopogon citratus</i>	7	-
<i>Piper nigrum</i>	1	2
<i>Zingiber officinalis</i>	-	7



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Figure 1. Spices vendor with an assemblage of plant species often used together to make the dipping sauce, nước chấm. Hanoi, Vietnam.



Figure 2. *Persicaria odorata* (Lour.) Soják (**rau răm**, Vietnamese mint).

Substitution for aroma and taste

Persicaria odorata (Lour.) Soják (**rau răm**, Vietnamese mint, indigenous to Southeast Asia) (Figure 2). It is used most notably and traditionally in salad dishes, called **gỏi** and as an accompaniment with the partially developed duck egg dish, **hột vịt lộn** (Figure 3). It is listed as a recent introduction by Vietnamese immigrants (Kuebel & Tucker 1988) and is not included in a checklist of Asian food plants in Hawai'i (Chung & Ripperton 1929), or other Hawai'i plant lists before 1975 (Neal 1965, St. John 1973).



In the United States, I have not observed the partially developed duck egg dish being consumed. However, I am told that it is available in the markets in Chinatown in Honolulu and other areas with large Vietnamese communities. Regarded as a snack food, it is neither described in Vietnamese cookbooks from the United States (Miller 1968, Ngô & Zimmerman 1986, Nhan & Sox 2003) nor Vietnam (Nguyễn 2003, Triệu 1999, Văn 1984). For salads included in the cookbooks from the United States, the aromatic "herbs" *Coriandrum sativum* (indigenous to Southwest Asia) and/or *Ocimum basilicum* (indigenous to the old-world tropics) is commonly listed rather than *P. odorata*. For example, green papaya salad (**gỏi đu đủ**) is prepared with *O. basilicum* rather than *P. odorata*. While *P. odorata* is available in the Chinatown markets in Honolulu, its use appears to be limited and I have never observed it used as an ingredient in Vietnamese restaurants in Hawai'i. Only during participant observations with the Vietnamese group of Đồng Tâm Baptist Church, and during meals in Vietnam have I eaten **gỏi** with *P. odorata*. It is also the women of the Đồng Tâm group that stress that Vietnamese salads must have *P. odorata* in order to be genuinely and properly prepared, **gỏi**, with the proper taste. According to traditional Vietnamese use, *P. odorata* aids in the digestion of the partially developed duck eggs. Its antibacterial properties (Nguyễn 1993) may explain its traditional use in raw salads that may harbor harmful bacteria.

Deletion and substitution used for color

Momordica cochinchinensis (Lour.) Sprengel (**gấc**, indigenous to India, Japan to New Guinea). This spectacular fruit (Figure 4), is related to bitter melon (*M. charantia* L.). The thick, red arils of the large seeds are used to impart an orange-red color to the glutinous rice dish, **xôi gấc**. **Xôi gấc** is traditionally served for celebrations such as wed-



Figure 3. *Persicaria odorata* traditionally used for: (A) **gỏi**, salad dishes, (pictured is a **gỏi** made with *Artocarpus altissimus* (Z.) Fosb., beadfruit); and (B) as an accompaniment in **hột vịt lộn**.



Figure 4. *Momordica cochinchinensis* (Lour.) Sprengel (**gấc**). The thick, red arils of the large black seeds are used to impart a red coloring to food.

dings, **đầy tháng** (the celebration of exactly one month old of a baby), and **Tết** (Lunar New Year). The aril covered seeds are first soaked in rice liquor. The arils are then removed from the hard seeds and mixed with uncooked glutinous rice that has been soaked in water and the mixture is steamed. Coconut milk is added to sweeten this food. The black hard seeds are not eaten as they are removed prior to or during the mixing stage. A number of seeds may be left in the mixture or are reserved to be used as decoration on top of the cooked **xôi gấc** (Figure 5A). This

is done as evidence that *M. cochinchinensis* was indeed used to impart the coloring versus an artificial food coloring. In Hawai'i, at every Vietnamese celebration where a pink to red colored glutinous rice dish was available, I have been told it is "**xôi gấc**" and upon asking, I am told "[artificial] color is added" to make it red. The food coloring imparts a light red to pink hue rather than the orange-red produced when using the arils of *M. cochinchinensis* (Figure 5B).



Figure 5. A) **Xôi gấc** served at a wedding in Vietnam. A *Momordica cochinchinensis* seed left in the glutinous rice mixture as proof of *M. cochinchinensis* use is being removed just before eating the food. B) Artificially colored "**xôi gấc**" repared with red food coloring (also shown in the figure) that produced the pink color. This dish was prepared for a Vietnamese celebration in Hawai'i.



Figure 6. *Pandanus amaryllifolius* Roxb. (lá dứa, scented pandanus) cultivated on a Vietnamese farm in Hawai'i (plants in foreground).

While the genuine use *M. cochinchinensis* for the red of **xôi gấc** is important in Vietnam, its deletion in Hawai'i due to unavailability and subsequent substitution with food coloring does not appear culturally important for Hawai'i based Vietnamese. In February 2005, I attended a celebration of the first full year of a baby where **xôi gấc** was prepared using powdered *M. cochinchinensis*. The powdered preparation of the *M. cochinchinensis* arils has recently become available in Vietnam and was brought back to Hawai'i by a Vietnamese woman. The powder gave the glutinous rice the deep orange-red color similar to what I have observed when the fresh arils are used. This powder is not available in Hawai'i and may become another product soon to be imported for Vietnamese immigrants.

Pandanus amaryllifolius Roxb. (lá dứa, scented pandanus, indigenous to the old world tropics, possibly first found in the Moluccas). *Pandanus amaryllifolius* leaves are used to perfume and to impart a green color to foods. For example, both scent and coloring properties are used to make a sweet food called, **chè sô nước**, which consists of green colored spheres filled with sweetened mung bean paste. The green spheres are made with glutinous rice flour traditionally colored using water boiled with *P. amaryllifolius*. In Hawai'i, **chè sô nước** is often made with green food coloring even though *P. amaryllifolius* is available (Figure 6). As with *M. cochinchinensis*, the substitution of *P. amaryllifolius* is explained to me without much empathy for traditionalism. For these two examples in Hawai'i, the convenience of the artificial food coloring

outweighs the traditionalism of the plant use. The substitution of coloring for *M. cochinchinensis* is compounded by its unavailability in Hawai'i.

Substitutions, insertions and deletions for texture

Colocasia gigantea (Blume) Hook. f. (**bạc hà**, often referred by "taro stem," indigenous to Indomalasia to Australia) (Figure 7). *Colocasia gigantea* is valued for the spongy aerenchyma and crunchy texture of its petiole (Nguyen 2005). The petiole has no flavor of its own, but absorbs the broth of the soup it is specifically cooked in, **canh chua cá lóc** (sweet and sour snakehead mullet fish soup). The ingredients used to make **canh chua cá lóc** provide its characteristic balance of sourness, sweetness, and spiciness. These combinations are important characteristics of Vietnamese food (Đinh 1990a; Pham 2001; Trieu 1998). Less discussed is the necessity of certain plants to provide texture, as is the function of *C. gigantea* in this soup.

Vendors in Biên Hòa identified plant taxa used as substitutes for *C. gigantea* in **canh chua** (Table 6). Like *C. gigantea*, these plants have little or no flavor and absorb the flavor of the soup. Species A through D have aerenchyma, and thus have the texture quality coveted for *C. gigantea* (Figure 8). The plants listed for Honolulu are those I have observed in use. *Apium graveolens* var. dulce (Miller) Pers. is listed as an insertion in Honolulu because I did not observe it used or available in southern Vietnam. The



Figure 7. *Colocasia gigantea* (Blume) Hook. f. (**bạc hà**) cultivated in Hawai'i.

Table 6. Plant taxa substitutions for *Colocasia gigantea*, deletions and insertions for making **canh chua**.

Standard	Biên Hòa ^a substitutions	Honolulu insertions
<i>Colocasia gigantea</i> (Blume) Hook.f.	A) <i>Limnocharis flava</i> (L.) Buchenau	1) <i>Apium graveolens</i> var. <i>dulce</i> (Miller) DC
	flowering shoots of "keo neo"	petiole
petiole used	B) <i>Nelumbo nucifera</i> Gaertner	2) bamboo shoots
	shoots of "sacred lotus"	canned
	C) <i>Nymphaea pubescens</i> Willd.	
	flowering shoots of "night lotus"	
	D) <i>Neptunia prostrata</i> (Lam.) Baillon	
	whole plants, spongy stems	
	E) bamboo shoots from Mekong Delta region:	
	pickled	
	F) <i>Sesbania grandiflora</i> (L.) Pers.	
	blossoms	
	G) <i>Sesbania sesban</i> (L.) Merr.	
	blossoms	
a Deletions from Hawai'i canh chua use are A, B, C, D, and G.		



Figure 8. Texture substitutes for *C. gigantea* with aerenchyma: A) *Limnocharis flava* (L.) Buchenau, B) *Nelumbo nucifera* Gaertner., C) *Nymphaea pubescens* Willd., D) *Neptunia prostrata* (Lam.) Baill.

bamboo listed for Honolulu is cooked and canned versus a pickled preparation in Biên Hòa.

The *C. gigantea* substitutes that occur in Biên Hòa, except bamboo shoots and *Sesbania grandiflora* (L.) Pers., are not available in the Honolulu's Chinatown markets, and thus are considered to be "deleted" from the Hawai'i based Vietnamese food plant assemblage. *Nelumbo nucifera* Gaertner in the form of the "lotus roots" are available in Chinatown, but the shoots as they are used for **canh chua** are not available. *Neptunia prostrata* (Lam.) Baill. is available in Chinatown, but I have never observed its use for **canh chua**. It is possible that *N. prostrata* was deleted from the assemblage of **canh chua** plants because it was not available when the Vietnamese first began to make this food in Hawai'i, and subsequently the knowledge of its application for **canh chua** was forgotten by many.

Sesbania grandiflora (L.) Pers. and *Sesbania sesban* (L.) Merr. are ingredients characteristic to **canh chua** of the Mekong Delta (in Vietnamese known as **miền tây**). *Sesbania sesban* flowers are described as available only dur-

ing the flood season and growing along the water ways of the Mekong Delta where people use small boats to collect them from semi-aquatic *S. sesban* plants. *Sesbania grandiflora*, grows in Hawai'i, is sold in the Chinatown markets by Filipino vendors, and is used by Filipinos as a vegetable. I have observed its use for **canh chua** in Hawai'i infrequently by Vietnamese originally from the Mekong Delta region.

In recent years, the improved economic situation in Vietnam and for many Vietnamese immigrants in Hawai'i, has enabled people to include in **canh chua** a greater variety of ingredients and include those formally more expensive [e.g., pineapple (*Ananas comosus* (L.) Merr.) and okra (*Abelmoschus esculentus* (L.) Moench)] (Mrs. Nguyễn Thị Nhơn, personal interview 2004). As a result, different species of vegetables, herbs and fish (and other meats) are now more commonly used in **canh chua** in Vietnam and in the United States. The plant and animal species used for **canh chua** have been substituted, deleted and others inserted in their place, but the characteristics of the soup remain constant: sour, sweet, spicy, and a texture - pro-

vided by the aquatic associated plants with aerenchyma, bamboo, or celery.

Conclusions

This paper provides an explanation of Vietnamese diacritics and their importance to meaning and application in Vietnamese vernacular plant names. It is hoped that the compilation of Vietnamese food plants will be useful to those working in Vietnamese economic botany or ethnobotany as a reference of the current scientific nomenclature and taxonomic groupings, the fully scribed Vietnamese names, and the English and French equivalents. As the interest in Vietnamese ethnobotany grows, it is important to be accurate and unambiguous in our research and reports. Equally important, that a greater understanding of the food practices and culture can be learned and preserved through the active use of the Vietnamese language by those that are interested, Vietnamese or otherwise.

The list of Vietnamese food plants also serves to fill a gap in the literature regarding food plants used by Vietnamese immigrants. With the collection of many of the plants in this study from Hawai'i's Chinatown markets, the data also serves as a preliminary checklist of plants available in Asian markets in the United States. This working list will evolve as additional names are added to include other plant life forms (e.g. algae) and uses (e.g. medicinal), and to accommodate the dynamic nature of botanical nomenclature.

An analysis of taxa used and that are salient to Vietnamese in Hawai'i compared with southern Vietnam reflects an evolution of the assemblage of food plants demonstrated by substitutions, insertions, and deletions of plant taxa. Replications are also evident as the Vietnamese in Hawai'i have access to many similar plant taxa as those in Vietnam. This is likely due to the location: with a subtropical climate where similar food plants can grow, and demographically, where taxa are available due to the food plants demands of the large Asian population.

Some notable substitutions, deletions, and insertions of plant taxa demonstrate that the Vietnamese in Hawai'i have continued to make foods that are culturally important even in the absence of particular plant taxa. This shows that the importance of some foods is not in the species that are required, but rather the qualities of the plant (e.g., crunchy, spongy aerenchyma of *Colocasia gigantea*). The adaptation facilitates the food preparation or replication, maintaining Vietnamese culinary traditions.

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Appendix A. Vietnamese terms for plant form and structure utilized.

Vietnamese terms^a	English Explanations
bông (SV), hoa (NV)	flower
cải	cabbage groups; often Brassicaceae generic
cây	generic for “a plant” or tree; often used as a generic for food plants with erect vegetative parts
cọng	petiole or stem
củ	bulb, root, tuber, or rhizome
đậu	bean; often Fabaceae generic
hột (SV), hạt (NV)	seed, grain
lá	leaf
nấm	fungus
ngó	shoot of aquatic plant
rau^b	“vegetable” or vegetative, sterile, often leafy food plant
rong	algae
trái (SV), quả (NV)	fruit

^aOnly those discussed in this manuscript.

^bI include in the checklist the form “**rau t**” as an abbreviation for **rau thơm**, referring to plants with aromatic (**thơm**) vegetative parts used as condiments.

Appendix B. Vietnamese Food Plants with Vietnamese, English, and French Names.

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
ALISMATACEAE				
<i>Limnocharis flava</i> (L.) Buchenau	rau	kèo nèo	?	?
ALLIACEAE				
<i>Allium cepa</i> var. <i>aggregatum</i> G. Don	củ	hành ta	shallot	echalotte
	bông	bông hành	onion flower	oignon fleurit
<i>Allium cepa</i> var. <i>cepa</i> L.	củ	hành tây	onion (bulbs)	oignon
<i>Allium chinense</i> G. Don.	củ	củ kiệu	Chinese onion	oignon chinoise
<i>Allium fistulosum</i> L.	rau t	'hành lá'	green onion, spring onion	ciboule
<i>Allium porrum</i> L.	cây	tỏi tây	leek	poireau
<i>Allium sativum</i> L.	củ	tỏi	garlic	ail
<i>Allium tuberosum</i> Rottler ex. Sprengl	rau t	'hẹ'	Chinese chives	ail odorant
	bông	bông hẹ	Chinese chives flowers	?
AMARANTHACEAE				
<i>Amaranthus tricolor</i> L. 'Red Stripe Leaf'	rau	rau dền	Chinese amaranth	amarante comestible
<i>Amaranthus tricolor</i> L. var. <i>splendens</i> hort.	rau	rau dền lua	red amaranth	brède de Madagascar
<i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>	củ	dền, dền tím Đà Lạt	beet	betterave
<i>Spinacia oleracea</i> L.	cải	bó xôi (SV)	spinach	épinard
		'rau dền mỹ' (HI)		
ANACARDIACEAE				
<i>Anacardium occidentale</i> L.	hột	điều	cashew nut	noix de caju; anacarde
<i>Mangifera indica</i> L.	trái	xoài	mango	manguier
<i>Spondias cytherea</i> Sonn.	trái	cóc, vi (HI)	hog plum	pomme cythère
ANNONACEAE				
<i>Annona muricata</i> L.	trái	mãng cầu xiêm	soursop	corossol
<i>Annona squamosa</i> L.	trái	mãng cầu ta	custard apple, sweet sop	pomme-cannell

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
APIACEAE				
<i>Anethum graveolens</i> L.	lá	thì là	dill leaves, fennel	fenouil bâtard
<i>Apium graveolens</i> L. var. <i>dulce</i> (Miller) DC	rau	cần tàu, cần tây	celery	céleri
<i>Centella asiatica</i> (L.) Urb.	rau	rau má	pennywort	-
<i>Coriandrum sativum</i> L.	rau t	'ngò' (SV) rau mùi (NV)	cilantro	coriandre
<i>Daucus carota</i> L.	củ	cà rốt		
<i>Eryngium foetidum</i> L.	rau t	'ngò gai' (SV) 'mùi tau' (NV)	thorny coriander	panicaud fétide
<i>Oenanthe javanica</i> DC	rau	cần nước/ta, ngò tàu		
APOCYNACEAE				
<i>Aganonerion polymorphum</i> Pierre ex Spire	rau	rau dang (SV) rau vang (NV)	?	?
ARACEAE				
<i>Colocasia esculenta</i> (L.) Schott	củ	khoai môn (SV) khoai sọ (NV)	taro	taro
<i>Colocasia esculenta</i> (L.) Schott 'Bun Long'		củ		
<i>Colocasia gigantea</i> (Blume) Hook. f.	cộng	bạc hà (SV) đọc mùng (NV)	taro petiole (of Giant elephant)	kane thun
ARECACEAE				
<i>Areca catechu</i> L.	trái	cau	betel nut	aréquier
<i>Arenga pinnata</i> (Wurmb.) Merr.	cây	đoát, búng báng	sugar palm	palmier à sucre
<i>Borassus flabellifer</i> L.	cây	thốt lốt	palmyra palm (sugar)	palmier à sucre
<i>Cocos nucifera</i> L.	trái	dừa	coconut	cocotier
ASPARAGACEAE				
<i>Asparagus officinalis</i> L.	rau	măng tây	asparagus	apserge
ASPHODELACEAE				
<i>Aloe vera</i> (L.) Burm. f.	cây	cây đăm, nha đăm	aloe vera	aloès
ASTERACEAE				
<i>Chrysanthemum coronarium</i> L.	rau	tân ô (SV) cải cúc (NV)	chrysanthemum greens	chrysanthemum des Jardin
<i>Cynara scolymus</i> L.		bông		
<i>Lactuca sativa</i> L. cv.	rau	xà lách búp (SV) diếp (NV)	lettuce (round cv.)	laitue
<i>Lactuca sativa</i> L. cv.		xà lách gài (SV)		

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
BASELLACEAE				
<i>Basella rubra</i> L.	rau	mồng tơi	Malabar spinach	epinard de Malabar
BIGNONIACEAE				
<i>Crescentia cujete</i> L.	trái	đào tiên	calabash tree	calebrassier
BIXACEAE				
<i>Bixa orellana</i> L.	hột	điều đỏ/nhuộm	anatto seeds	rocouyer
BRASSICACEAE				
<i>Brassica juncea</i> (L.) Czern.	cải	cải sậy (SV)	mustard cabbage	moutarde indienne
		'rau cải' (NV)		
	cải	cải bẹ xanh	mustard cabbage (small leaf)	moutarde indienne
<i>Brassica oleracea</i> L.				
var. <i>acephala</i> DC.	cải	cải rổ	collard	chou cavalier
var. <i>botrytis</i> L.	cải	'bông cải', súp lơ	cauliflower	chou-fleur
		'bông cải xanh'	broccoli	chou-fleur d'hiver
var. <i>capitata</i> L.	cải	'bắp cải'	cabbage	chou cabus
var. <i>chinensis</i> (L.) Prair	cải	cải dung/nhúng	Chinese kale	broccet de Chine
var. <i>gongylodes</i> L.	cải	su-hào	kohlrabi	chou-rave
<i>Brassica rapa</i> L. subsp. <i>chinensis</i> (L.) Hanelt	cải	cải bẹ-trắng	bok choy (narrow petiole)	chou chinois blanc
		cải thia	bok choy (broad petiole)	chou chinois
		cải ngọt	choy sum, yellow flowering	chou chinois
subsp. <i>pekinensis</i> (Lour.) Hanelt		cải bắc thảo/ bắp dài	Chinese cabbage, (long white) won bak	chou (blanc) de Pékin
<i>Raphanus sativus</i> Bailey cv. <i>Longipinnatus</i>	củ	củ cải trắng	daikon	radis-navet
<i>Rorippa nasturtium-aquaticum</i> (L.) Hayek	cải	cải xoong/ soong	watercress	cresson de fontaine
		xà lách son		
BROMELIACEAE				
<i>Ananas comosus</i> (L.) Merr.	trái	khóm, thơm (SV)	pineapple	ananas
		dứa (NV)		
CACTACEAE				
<i>Hylocereus undatus</i> (Haw.) Britton & Rose	trái	thanh long, tương liên	dragon fruit	oeil de dragon
CARICACEAE				
<i>Carica papaya</i> L.	trái	đu đủ, đu đủ xanh	papaya, green papaya	papayer

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
CLUSIACEAE				
<i>Calophyllum</i> sp.	trái	mù-u	Alexander laurel wood	laurier d'Alexandrie
<i>Garcinia mangostana</i> L.	trái	mãng cụt	mangosteen	mangoustanier
CONVOLVULACEAE				
<i>Ipomoea batatas</i> (L.) Lamk.	củ	khoai lang	sweet potato	patate douce
	rau	rau lang/lang đỏ	sweet potato leaves/red leaves	
<i>Ipomoea aquatica</i> Forrsk cv.	rau	rau muống (hột)	water spinach (seed, land)	liseron d'eau
		rau muống (ruong)	water spinach (paddy)	
CUCURBITACEAE				
<i>Benincasa hispida</i> (Thunb.) Cogn.	trái	bí đao, bí	wax gourd, Chinese winter melon	courge cireuse
<i>Citrullus lanatus</i> (Thunb.) Matsum & Nakai	trái	dưa hấu, dưa đỏ	watermelon	pastèque
		dưa hương/hấu non	watermelon (very young)	
<i>Coccinia grandis</i> (L.) Voigt.	lá	bình bát, bát	ivy gourd	gourde écarlate de l'Inde
<i>Cucumis melo</i> L. var. <i>cantalupo</i> Ser.	trái	dưa gang tây	cantaloupe	cantaloup
<i>Cucumis sativus</i> L.	trái	dưa chuột/leo	cucumber	concombre
var. <i>sativus</i> Chinese Group	trái	dưa gang	netted yellow cucumber	concombre brodé de Chine
<i>Cucurbita pepo</i> L.	trái	bí đỏ	pumpkin	courgette
	bông	bông bí	pumpkin blossoms	courge-fleur
var. <i>medullosa</i> Alef.	trái	bầu tây	zucchini	courgette
var. <i>moschata</i> Duchesne ex Lam.	trái	bí rợ	Japanese pumpkin	courge musquée, giraumon
<i>Lagenaria siceraria</i> (Mollina) Standley	trái	bầu	bottle gourd	courge bouteille
	lá	lá bầu	bottle gourd leaves	feuilles de courge bouteille
<i>Luffa acutangula</i> (L.) Roxb.	trái	mướp khía	ridged gourd, sing-kwa	courge anguleuse de Chine
<i>Luffa aegyptiaca</i> Mill.	trái	mướp hương	sponge gourd, loofah	eponge végétale
<i>Momordica charantia</i> L.	trái	khổ qua(SV)	bitter melon, balsam pear	margose amère
		mướp đắng(NV)		
<i>Momordica cochinchinensis</i> (Lour.) Sprengel	trái	gấc	spiny bitter cucumber	muricie, margose à piquants
<i>Sechium edule</i> (Jacq.) Sw.	trái	su su, chu chu	chayote	cheyotte

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
CUCURBITACEAE (cont.)				
<i>Trichosanthes cucumerina</i> L.	trái	mướp tây	snake gourd	serpent végétal
<i>Zehneria indica</i> (Lour.) Keyr.	trái	chùm thăng/ trắng	Indian zehneria	?
DIOSCOREACEAE				
<i>Dioscorea alata</i> L.	củ	khoai mọ/tím	yam (purple inside)	grande igname
<i>Dioscorea esculenta</i> (Lour.) Burkill	củ	khoai từ	yam (Chinese -)	igname des Chine
<i>Dioscorea</i> sp.	củ	khoai mọ	yam cv.	igname
EBENACEAE				
<i>Diospyros kaki</i> L.f.	trái	hồng	persimmon	kaki
EUPHORBIACEAE				
<i>Manihot esculenta</i> Crantz	củ	khoai mì	cassava	manioc
FABACEAE				
<i>Arachis hypogaea</i> L.	đậu	đậu phộng (SV)	peanut	arachide
		'đỗ lạc' (NV)		
<i>Erythrina variegata</i> L.	lá	vông nem	Indian coral tree	arbe immortel
<i>Glycine max</i> (L.) Merr.	đậu	đậu nành	soy bean	soya
<i>Neptunia prostrata</i> (Lam.) Baill.	rau	rau ngúc/ngút	neptunia	neptunie potagère
<i>Pachyrhizus erosus</i> (L.) Urb.	củ	củ sắn (SV)	yambean tuber	dolique bulbeuse
		củ đậu (NV)		
<i>Phaseolus vulgaris</i> L.	đậu	đậu ve/cô ve	French bean	haricot vert
<i>Pisum sativum</i> L.	đậu	đậu petit pois/ hòa lan	pea	petit pois
<i>Pisum sativum</i> L. var. <i>macrocarpon</i> Serr.	đậu	đậu tí bo	snap/snow peas (podded)	pois mangetout à cosse plate
<i>Psophocarpus tetragonolobus</i> (L.) DC	đậu	đậu rông	winged bean	pois carre
<i>Pueraria montana</i> (Lour.) Merr. var. <i>lobata</i> (Willd.) Maesen & S. Almeida	củ	cát căn (SV)	kudzu	kudzu dolique
		sắn dây (NV)		
<i>Sesbania grandiflora</i> (L.) Pers.	bông	bông so đũa	sesban	sesbanie
<i>Sesbania sesban</i> (L.) Merr.	bông	bông điên điển	Indian sesbania	sesbanie d'Egypte
<i>Tamarindus indica</i> L.	trái	me (chua)	tamarind (sour)	tamarinier
		me (ngọt)	tamarind (sweet)	
	lá	lá me	tamarind leaf shoots	feuilles de tamarin
<i>Vicia faba</i> L.	đậu	đậu tâu-kê/ răng-ngựa	broad bean	fève
<i>Vigna angularis</i> (Willd.) Ohwi & Phashi	đậu	đậu đỏ, đậu đen	adzuki beans (red, black)	haricot adzuki (pourpre, noir)

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
FABACEAE (cont.)				
<i>Vigna radiata</i> (L.) R. Wilczek	đậu	đậu xanh	mung bean	haricot mung à grain doré
	rau	giá	mung bean sprouts	germe de soja
<i>Vigna unguiculata</i> subsp. <i>unguiculata</i> (L.) Walp.	đậu	đậu trắng	cowpeas (black- eyed peas)	doliques à oeil noir
<i>Vigna unguiculata</i> (L.) Walp. subsp. <i>sequipedalis</i> (L.) Verdc.	đậu	đậu đũa	yard long beans	dolique asperge
HEMEROCALLIDACEAE				
<i>Hemerocallis fulva</i> (L.) L.	bông	kim châm (SV)	lily buds	hémérocalle
		'hoa hiên' (NV)		
IRIACEAE				
<i>Eleutherine subaphylla</i> Gagnep.	củ	sâm đại hành, tỏi đỏ	red garlic	?
LAMIACEAE				
<i>Elsholtzia ciliata</i> (Thunb.) Hyl.	rau t	'kinh giới'	Vietnamese perilla	?
<i>Mentha aquatica</i> L.	rau t	'húng lũi'	creeping or water mint	menthe aquatic
<i>Mentha arvensis</i> L.	rau t	'húng cây'	corn-mint	menthe des champs
<i>Ocimum basilicum</i> L.	rau t	'húng quế', 'rau quế'	Asian/Thai basil	basilic
	hột	hột é	Asian/Thai basil seeds	graines de basilic
<i>Perilla frutescens</i> (L.) Britt.	rau t	'lá tía tô'	perilla, chiso	pérille
<i>Plectranthus amboinicus</i> (Lour.) Spreng.	lá	lá cần dầy	plectranthus, Cuban oregano	plectranthus aromatique
LAURACEAE				
<i>Cinnamomum</i> sp.	cây	quế đơn	cinnamon	cannelle
LYTHRACEAE				
<i>Punica granatum</i> L.	trái	lựu	pomegranate	grenadier
MALPIGHIACEAE				
<i>Malpighia glabra</i> L.	trái	sơ ri	Barbados cherry	mourellier
MALVACEAE				
<i>Abelmoschus esculentus</i> (L.) Moench	đậu	đậu bắp	okra	gombo
<i>Corchorus olitorius</i> L.	rau	rau dầy/bó/đai	Jew's mallow, Tossa Jute	corète potagère jute
<i>Durio zibethinus</i> Rumph. ex Murray	trái	sầu riêng	durian	durion
<i>Theobroma cacao</i> L.	cây	ca-cao	cacao tree	cacaoyer
MARANTACEAE				
<i>Maranta arundinaceae</i> L.	củ	huỳnh tinh, bình tinh	West Indies arrowroot	arrow-root

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
MELIACEAE				
<i>Lansium domesticum</i> Corrêa	trái	bòn bon	langsati	langsep
MENISPERMACEAE				
<i>Cyclea peltata</i> (Lamk.)Hook.f. & Thomson	lá	sâm nam, dây sâm	?	?
MORACEAE				
<i>Artocarpus altilis</i> (Park.) Fosb.	trái	xa kê	breadfruit	arbre-à-pain
<i>Artocarpus heterophyllus</i> Lam.	trái	mít (ước, ráo)	jackfruit (wet & dry cvs.)	jacquier
<i>Artocarpus integer</i> (Thunb.) Merr.	trái	mít tổ nữ	champedak	jacquier champeden
MORINGACEAE				
<i>Moringa oleifera</i> Lam.	trái	chùm-ngây	moringa, horse- radish tree	moringa ailée
MUNTINGIACEAE				
<i>Muntingia calabura</i> L.	trái	trái trứng cá, mật sâm	calabura, jamaica cherry	calabure
MUSACEAE				
<i>Musa acuminata x balbisiana</i> Colla (synonym for <i>M. x paradisiaca</i> L.)				
cf. 'apple'	trái	chuối pom	apple banana	banane pomme
cf. 'cavendish'	trái	chuối già (SV)	large (green) banana	banane- Cavendish
		chuối tiêu (NV)		
cf. 'ice cream'	trái	chuối sụ	(angled) banana	banane cv.
'lady finger' or 'date'	trái	chuối cau (SV)	lady finger banana	banane-arec, banane-figue
		chuối ngự (NV)		
cv.	trái	chuối chà bột	banana cv.	banane cv.
cv.	trái	chuối sấp	small, cooking banana	banane cv.
<i>Musa cf. balbisiana</i> Colla.	trái	chuối hạt	seeded banana	banane farineuse
	trái	chuối chát	stringent banan (green, unripe)	banane- astringente
	bông	'bắp chuối' (SV) 'hoa chuối' (NV)	banana bud / inflorescence	fleur de banane
MYRTACEAE				
<i>Psidium guajava</i> L.	trái	ổi	guava	goyavier
<i>Syzygium aromaticum</i> (L.) Merr. & L.M.Perry	bông	đinh hương	clove	clous de girofle
<i>Syzygium samarangense</i> (Blume) Merr. & L.M.Perry	trái	mận	water apple	jamerose, pomme de Java

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
NELUMBONACEAE				
<i>Nelumbo nucifera</i> Gaertn.	củ	củ sen	lotus root	rhizomes de lotus
	hột	hột sen	lotus seeds	graines de lotus
	lá	lá sen	lotus leaf	feuille de lotus
	ngó	ngó sen	lotus shoot	tige de lotus
NYMPHAEACEAE				
<i>Nymphaea pubescens</i> Willd.	bông	bông súng	night lotus	nénephar
OXALIDACEAE				
<i>Averrhoa carambola</i> L.	trái	khế	star fruit, carambola	carambolier
<i>Oxalis</i> sp.	lá	me đất	sorrel	surelle
PANDANACEAE				
<i>Pandanus amaryllifolius</i> Roxb.	lá	lá dứa, dứa thơm	scented pandanus	?
PASSIFLORACEAE				
<i>Passiflora edulis</i> Sims.	trái	chùm bao trứng	passion fruit	grenadille
PEDALIACEAE				
<i>Sesamum orientale</i> L.	hột	mè (SV)	sesame seeds	grains de sésame
		vùng (NV)		
PHYLLANTHACEAE				
<i>Phyllanthus acidus</i> (L.) Skeels	trái	chùm ruột	otaheite gooseberry	groseille-étoile
<i>Sauropus androgynus</i> (L.) Merr.	rau	bỏ ngót	star gooseberry, sweet leaf	?
PIPERACEAE				
<i>Peperomia pellucida</i> (L.) Kunth.	rau	càng cua	peperomia	cresson
<i>Piper betle</i> L.	lá	trầu	betel leaf	bétel
<i>Piper lolot</i> C.DC.	lá	lá lốt	lolot leaf	poivre lolot
<i>Piper nigrum</i> L.	hột	tiêu	pepper	poivrier
PLANTAGINACEAE				
<i>Plantago major</i> L.	lá	mã đày	plantain	plantain des oiseaux
POACEAE				
<i>Coix lacryma-jobi</i> L.	hột	bô bô	Job's tears	larmes de job
<i>Cymbopogon citratus</i> (DC) Stapf	cây	sả	lemon grass	citronelle
cf. <i>Dendrocalamus asper</i> (Schult. & Schult.f.) Backer ex K.Heyne	cây	măng tre manh tông	bamboo shoots of rough bamboo	pousses de bambou
cf. <i>Gigantochloa levis</i> (Blanco) Merr.	cây	măng tre tàu	bamboo shoots of Smooth-shoot gigantochloa	pousses de bambou
<i>Oryza sativa</i> L.	cây	lúa	paddy rice	riz
	hột	gạo	rice (dehusked)	

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
POACEAE (cont.)				
<i>Oryza sativa</i> L. var. <i>glutinosa</i> (Lour.) Körn	cây	lúa nếp	paddy glutinous rice	riz gluant
	hột	gạo nếp	glutinous rice (dehusked)	
<i>Saccharum officinarum</i> L.	cây	mía	sugar cane	canne à sucre
<i>Triticum aestivum</i> L.	cây	lúa-mi	wheat	blé
<i>Zea mays</i> L.	trái	bắp (SV)	corn	Mais, blé d'Amérique
		ngô (NV)		
POLYGONACEAE				
<i>Persicaria odorata</i> (Lour.) Soják	rau t	rau răm	Vietnamese mint	renouée, persicaire du Vietnam
ROSACEAE				
<i>Fragaria ananassa</i> (Weston) Duchesne	trái	dâu, dâu tây/ Đà Lạt	strawberry	frasier
<i>Malus domestica</i> Borkh.	trái	pom, táo tây	apple	pommier
<i>Pyrus communis</i> L.	trái	lê	pear	poirier
<i>Pyrus pyrifolia</i> (Burm.f.) Nakai	trái	lê trung quốc	Asian pear	poitier de chine
RUBIACEAE				
<i>Coffea</i> sp.	hột	cà-phê	coffee	café
<i>Morinda citrifolia</i> L.	trái	nhàu	Indian mulberry	motinde
<i>Paederia scandens</i> (Lour.) Merr.	lá	lá mỡ/thui đít	Chinese fever vine	danaide fétide
RUTACEAE				
<i>Aegle marmelos</i> (L.) Corrêa	trái	bầu nâu, mấm	Indian bael fruit	oranger du Malabar
<i>Citrofortunella microcarpa</i> (Bunge) Wijnands	trái	tắc	kimquat	calamondin
<i>Citrus hystrix</i> DC.	lá	lá chanh	kaffir lime (leaves)	limettier hérissé
<i>Citrus maxima</i> (Burm. ex Rumph.) Merr.	trái	bưởi	pomelo	pamplemousse
<i>Citrus reticulata</i> Blanco	trái	quýt xiêm	tangerine (Thailand cv.)	mandarinier
<i>Citrus sinensis</i> (L.) Osbeck	trái	cam	sweet orange	oranger
<i>Citrus X nobilis</i> Lour.	trái	cam sành	king orange	roi-de-siam
<i>Citrus X aurantiifolia</i> (Christm.) Swingle	trái	chanh ta	lime	limettier
<i>Citrus X limon</i> (L.) Burm.f.	trái	chanh tây	lemon	citron
SAPINDACEAE				
<i>Dimocarpus longan</i> Lour.	trái	nhãn (-tiêu/ dabò)	longan 'pepper seed' / 'cow skin'	longanier
<i>Litchi chinensis</i> Sonn.	trái	vài	litchi	litchi
<i>Nephelium lappaceum</i> L.	trái	chôm chôm	rambutan	litchi chevelu

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
SAPOTACEAE				
<i>Chrysophyllum cainito</i> L.	trái	vú sữa	star apple	cainitier
<i>Manilkaria zapota</i> (L.) P. Royen	trái	xa bò chê	sapotillo	sapotillier
<i>Pouteria campechiana</i> (Kunth) Baehni	trái	trái trứng gà	egg fruit, canistel	jaune d'oeuf, canistel
SAURURACEAE				
<i>Houttuynia cordata</i> Thunb.	rau t	'giáp cá'	lizard's tail herb, fish mint	houttuynie
SCHISANDRACEAE				
<i>Illicium verum</i> Hook.f.	bông	đai hồi thật, mác hồi	Chinese star anise	anis étoilée anis de la Chine
		bong phở (HI)		
SCROPHULARIACEAE				
<i>Bacopa monnieri</i> (L.) Wettst.	rau	rau đắng	water hyssop	bacopa de monnier
<i>Limnophila chinensis</i> subsp. <i>aromatica</i> (Lam.) T.Yamaz.	rau t	'ngò om', 'rau om'	rice paddy herb	?
SOLANACEAE				
<i>Capsicum annuum</i> var. <i>grossum</i> (L.) Sendtn.	trái	ớt ngọt/Đà Lạt	sweet peppers	poivre rouge/vert
<i>Capsicum annuum</i> cf. <i>longum</i> Bailey / cf. <i>frutescens</i> (L.) Kuntze	trái	ớt	chili peppers, bird chili peppers	piment, des oiseax
<i>Lycium chinensis</i> Miller	cây	câu khởi/ky	matrimony vine	lyciet
<i>Lycopersicon esculentum</i> Miller	trái	cà chua/tô mách	tomato	tomate
<i>Solanum melongena</i> var. <i>esculentum</i> (Dunal) Nees	trái	cà dái dê, cà tím	eggplant (purple)	aubergine
<i>Solanum</i> cf. <i>torvum</i> Sw. / cf. <i>undatum</i> Jacq.	trái	cà pháo	Thai or pea eggplant	aubergine - sauvage d'Asie / pois
<i>Solanum tuberosum</i> L.	củ	khoai tây/Đà lạt	white potato, red potato	pomme de terre
THEACEAE				
<i>Camelia sinensis</i> (L.) Kuntze	lá	trà (xanh) (SV)	tea (green)	théier
		ché (NV)		
VITACEAE				
<i>Vitis</i> sp.	trái	nho	(dessert) grapes	vigne
ZINGIBERACEAE				
<i>Alpinia galanga</i> (L.) Willd.	củ	riêng nếp	galangal (larger)	galanga (grand)
<i>Alpinia officinarum</i> Hance	củ	riêng	galanga	galanga (petit)
<i>Curcuma longa</i> L.	củ	nghệ	turmeric	safron des Indes
<i>Zingiber officinale</i> Roscoe	củ	gừng	ginger	gingembre

TAXON ^a	Form ^b	Vietnamese ^c	English ^d	French
FUNGI				
AURICULARIACEAE				
<i>Auricularia auricula-judae</i> (Fr.) J.Schröt	nấm	nấm mèo (SV)	tree-ear fungus	oreille de Juda
		mộc nhĩ (NV)		
PLEUROTACEAE				
<i>Lentinus edodes</i> (Berk.) Sing.	nấm	nấm đông cô	shitake mushroom	lentin du Japon
PLUTEACEAE				
<i>Volvariella volvacea</i> (Bulliard-Fries) Sing.	nấm	nấm rơm	straw mushroom	volvaire
<p>^a The same species is used in a different form and/or with a different vernacular name. "cv." or "cvs." = a different cultivar of that species. "Gr." = Group. This term is applied to names of cultivars.</p> <p>^b Plant form or structure utilized, or type of use, and the generic rank of the Vietnamese vernacular name. For example, <i>Limnocharis flava</i>, has the form rau and the specific name keo neo. The Vietnamese binomial is then rau keo neo, but the plant can be referred to by only the specific keo neo. Where form and Vietnamese name must be used together to refer to the plant, the form name is repeated in the Vietnamese name listing (e.g., form: bông, Vietnamese: bông hành, must be used together to mean onion flowers). See Appendix B for explanation of form terms.</p> <p>^c Vernacular name differences by region denote by: "NV" = northern Vietnam, "SV" = southern Vietnam, "HI" = Hawai'i. Names surrounded by 'single quotes' are used as is without attachment of a form term. Names appearing with a slash '/' = either names occur with first name (e.g., cần nước/ta = plant is called cần nước or cần ta).</p> <p>^d " - " = no English or French name found in the references used.</p>				

