Collaborative Exploration of Plant Genetic Resources in Southern Cambodia, 2019

Sathya Prabandaka SUDASINGHE 1), Leakhena MAT 2), Katsuya BANDO 3),

Komei YAMAGUCHI 3), Sophany SAKHAN 2), Makara OUK 2),

Kenichi MATSUSHIMA 4)

- 1) Department of Science and Technology, Graduate School of Medicine, Science and Technology, Shinshu University, 8304 Minamiminowa, Nagano 399-4598, Japan
- 2) Cambodian Agricultural Research and Development Institute, National Road 3, Prateahlang Dangkor, P. O. Box 01, Phnom Penh, Cambodia
- 3) Faculty of Agriculture, Shinshu University, 8304 Minamiminowa, Nagano 399-4598, Japan
- 4) Institute of Agriculture, Academic Assembly Faculty, Shinshu University, 8304 Minamiminowa, Nagano 399-4598, Japan

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Corresponding author: K. MATSUSHIMA (e-mail: matuken@shinshu-u.ac.jp)

Summary

Under the Plant Genetic Resources in Asia (PGRAsia) project, National Agriculture and Food Research Organization (NARO) and Cambodian Agricultural Research and Department Institute (CARDI) have conducted several collaborative explorations in Cambodia since 2014. As part of the project, we surveyed and gathered plant genetic resources in Southern Cambodia from October 1 to 10, 2019. In the survey, we explored the genetic resources in 14 districts of Southern Cambodia in Svay Rieng, Pery Veng, Kandal, Phnom Penh, Kampong Speu, Preah Sihanouk, Koh Kong, Kampot, and Takeo provinces and collected 85 accessions from farmers' storages, back yards, or fields. The accessions corresponded to Solanaceae (34), Cucurbitaceae (35), Fabaceae (8), and Amaranthaceae (8). Among 34 Solanaceae accessions, 29 were from *C. frutescens*. As the present study was conducted in a flood-prone area, vegetable cultivation during the rainy season was low, and flood-tolerant luffa and hyacinth bean were considered important vegetables for cultivation. The collected seeds were divided equally, and half the seeds were conserved at CARDI in Cambodia. The other half was transferred to the Genetic Resources Center, NARO, Japan, under the standard material transfer agreement.

KEY WORDS: Cambodia, Solanaceae, Cucurbitaceae, Fabaceae, Amaranthaceae

Introduction

Plant genetic resources are important for improving traits such as pest and disease resistance, poor environmental condition tolerance, and high yield.

The Plant Genetic Resource Asia (PGR Asia) project was conducted by the National Agriculture and Food Research Organization (NARO) in collaboration with the Cambodian Agricultural Research and Development

Institute (CARDI) since 2014.

Previous explorations had been carried out by Tanaka et al. (2016), Sreynech et al. (2016), and Matsushima et al. (2018) to explore Eastern Cambodia while Matsunaga et al. (2015) and Takahashi et al. (2015) explored Western and Northwest Cambodia. The northern region of Cambodia was explored by Sugita et al. (2017), Tanaka et al. (2017), and Kondo et al. (2019). However, Southern Cambodia was explored only by Matsunaga et al. (2018), and the collected samples were relatively less than the other three regions. Under the PGR Asia project, Shinshu University has already explored North, East, and West Cambodia, except in the Southern region. Therefore, it is necessary to explore and collect more genetic resources in Southern Cambodia. The objective of this survey was to explore and collect plant genetic resources, mainly Solanaceous (especially Capsicum spp.) and Cucurbitaceous families, in Southern

Cambodia.

Methods

A field survey was conducted from October 1 to 10, 2019 in Southern Cambodia, including Svay Rieng, Pery Veng, Kondal, Phnom Penh, Kampong Speu, Preah Sihanouk, Koh Kong, Kampot, and Takeo provinces (Table 1, Fig. 1). We visited farmers' houses using two vehicles. We could not reach some of the places by car because of narrow and flooded roads. At that time, we reached those farmers' places on foot. During the interviews, we clarified that most of the farmers cultivated imported and improved varieties. Therefore, we were careful to collect only local varieties of seeds produced by farmers themselves. In this survey, we mainly focused on chili pepper under the Solanaceae family, and other vegetables belonging to the Cucurbitaceae family. The accession's local

Table 1. Itinerary plan followed during the 2019 exploration in Southern Cambodia

	, ,	1	
Date	Day	Itinerary	Stay
30-Sep	Mon	Narita Phnom Penh	Phnom Penh
1-Oct	Tue	Visit CARDI and central market	Phnom Penh
2-Oct	Wed	Phnom Penh Svay Rieng	Svay Rieng
3-Oct	Thu	Svay Rieng Prey Veng	Prey Veng
4-Oct	Fri	Prey Veng Kandal Phnom Penh Kampong Speu	Kampong Speu
5-Oct	Sat	Kampong Speu Koh Kong Preah Sihanouk Koh Kong	Koh Kong
6-Oct	Sun	Koh KongKampot	Kampot
7-Oct	Mon	Kampot Takeo	Takeo
8-Oct	Tue	Takeo Phnom Penh	Phnom Penh
9-Oct	Wed	Visit CARDI and arrange the collected seed	Phnom Penh
10-Oct	Thu	Phnom Penh Narita	



Fig. 1. Route map of exploration and collection sites of Southern Cambodia in 2019.

name, utilization, location name, and characteristics of collection site were recorded using farmer information and field observations during sample collection (Photo 1). Images of the samples were taken at the point of collection (Photo 2). Longitudinal sampling locations, latitudes, and altitudes were recorded (Photo 3) using the Garmin eTrex20J GPS technology (Garmin International Inc., Olathe, KS, USA). The collected seeds were divided equally, and half were conserved CARDI in Cambodia. The other half was transferred to the Genetic Resources Center, NARO, Japan, using the standard material transfer agreement.

Results and Discussion

In this exploration, we collected 85 accessions from four families: Solanaceae, Cucurbitaceae, Fabaceae, and Amaranthaceae. Collected seed samples included 29 chili peppers (only *C. frutescens*), 5 *Solanum* spp., 35 Cucurbitaceae, 8 Fabaceae, and 8 Amaranthaceae (Table 2). Fruits samples were mainly collected from farmers' home gardens and seed samples collected from farmers' seed storage. Usually, farmers stored their seeds in wood containers or bags and used the cables (Photo 4 and No. 60). Finally, the collected seeds of samples were equally



Photo 1. Collection of fruit samples in Prey Veng area



Photo 2. Obtaining fruit sample photos

shared between the Genetic Resources Center, NARO, Japan, and CARDI.

Exploration records

1) Svay Rieng province (October 2)

We moved to the Savy Rieng province from Phnom Penh city by car then we visited Veal village in Svay Teap district and collected four plant accessions. The accessions were two chili peppers (*C. frutescens*) (No. 1 and No. 3), one luffa seed (No. 2) from dry fruit, and one amaranth seed (No. 4) from inflorescence of the plant in the backyard. The first chili pepper accession (No. 1) was collected from a farmer's field and did not have any virus infection. However, the second chili pepper (No. 3), which was collected from the backyard of a house in Svay Teap village, had a virus infection in the whole plant (Photo 5).

2) Prey Veng (October 3)

The explorer team left the Svay Rieng and traveled to the Prey Veng province (Photo 6) on the same road. We visited Peam Chor district, Mean Chey village and Prey Veng city, in the Shkor Dach and Knoy areas, respectively. We collected a total of 21 seed and fruit samples (No. 5-No. 25) in Prey Veng province. We mainly explored the accession in forestry areas, home gardens, backyards, and farmers' fields.



Photo 3. Determining GPS coordinates



Photo 4. Farmer's seed storage



Photo 5. Chili pepper plant severely infected with a virus

3) Kandal (October 4)

We reached the Kandal province in Takhmau district and explored Prek Loung village but found only one accession of *Luffa cylindrica* (No. 26).

4) Phnom Penh (October 4)

We left Kandal and moved to Kampong Speu district. While traveling to the Kampong Speu, we had to pass Phnom Penh again. Near Phnom Penh, Pou Senchey district, on the roadside of the Prey Ta Khea village, we found an ivy gourd (No. 27).



Photo 6. Rural area scenery in Prey Veng province

5) Kampong Speu (October 4 and 5)

It was raining heavily on the way from Phnom Penh to Kampong Speu. We explored Chba Moun district, Som Pov village and Tang Kroch district, Choum Phey village in Kampong Speu province. We visited the market in Chba Moun district, Pea Nichakam village and collected six fruit samples of chili pepper (No. 29, 30, 32, 33, 34, and 37), two samples of squash (No. 35 and 36), one sample of angled luffa (No. 28), and one sponge gourd (No. 31).

6) Preah Sihanouk (October 5)

We moved to the Preah Sihanouk province, Kampong Seila district, and explored Veal and Thmey

Table 2. Total collected accessions in Southern Cambodia in 2019

Family	genus	species	
Solanacea			34
	Capsicum	frutescens	29
	Solanum	melongena	3
		torvum	1
		trilobatum	1
Cucurbitaceae			35
	Luffa	cylindrica	10
		acutangula	3
	Cucurbita	moschata	9
	Benincasa	hispida	4
	Cucumis	melo	3
		sativus	2
	Lagenaria	siceraria	2
	Momordica	charantia	1
	Coccinia	grandis	1
Fabaceae			8
	Lablab	purpureus	4
	Vigna	unguiculate	3
		radiata	1
Amaranthaceae			8
	Amaranthus	spp.	8
Total			85

villages. In these villages, we collected three chili peppers (No. 38, 40, and 41), one sponge gourd (No. 39), and one bottle gourd (No. 42) accessions from the backyards of farmers' houses. Then, we moved to Koh Kong province.

7) Koh Kong (October 6)

We visited Koik Chrom village in Thmor Bang district and collected four chili pepper fruit samples (No. 43, 45, 46 and 47) and one turkey berry fruit sample (No. 44) from the durian and mangosteen fields.

8) Kampot (October 7)

We collected 10 accessions, including three chili peppers (No. 50, 51, and 56); two hyacinth beans (No. 49 and 55); and one amaranth (No. 48), squash (No. 52), melon (No. 53), sponge gourd (No. 54), and bottle gourd (No. 57) seed and fruit samples in Kampot province. The villages of Chrous Tasoum, Dom Nak Chombo, and Phnom Threal, in Kompong Trach, Sorn Rong Ler, and Angkor Chey districts, respectively, were explored before we moved to the Takeo province.

9) Takeo (October 7 and 8)

In Takeo province, we collected samples in Prey Kabas district, Bak Kout, Khach Trouk, and Ang Koki villages. We collected the many accessions on October 8, until afternoon. We were able to collect 16 samples on the last day in the Prey Kabas district, Choum Phoprik village. We collected a total of 28 accessions in Takeo province, including five chili peppers (No. 58, 63, 69, 77 and 78), four squashes (No. 62, 67, 72 and 85), three sponge gourds (No. 61, 75 and 80), two amaranths (No. 64 and 79), two hyacinth beans (No. 60 and 68), two cucumbers (No. 66 and 84), two wax gourds (No. 70 and 73), two melons (No. 71 and 83), two cowpeas (No. 81 and 82), two eggplants (No. 59 and 74), one angled luffa (No. 65), and one bitter gourd (No. 76).

Collected plant genetic resources

1) Solanaceae accessions

In the present survey, 34 Solanaceae accessions were collected from Southern Cambodia. Among the collected samples, 29 were chili pepper and 5 were from genus *Solanum*.

Chili pepper

In the present study, all 29 accessions we collected were *Capsicum frutescens*. Globally, five species of chili pepper are domesticated: *C. annuum*, *C. frutescens*, *C. chinense*, *C. baccatam*, and *C. pubescens* (Bosland

and Votava 1999). However, only C. annuum and C. frutescens are observed in Cambodia, according to previous studies (Matsunaga et al. 2015, 2018; Tanaka et al. 2016; Sugita et al. 2017; Kondo et al. 2019). In fact, C. annuum was also grown in Southern Cambodia; however, in our survey, most farmers revealed that in Southern region, they use imported and improved chili pepper varieties from Vietnam. Particularly, in the case of C. annuum, all varieties grown in the Southern region we found were improved varieties. Therefore, we did not collect C. annuum accessions. In Southern Cambodia, C. frutescens has two types of local names: "Mate Ach Sath" and "Mate Sor." "Mate" means chili pepper, while "Ach Sath" and "Sor" means "Bird's dropping" and "White," respectively. The immature fruit of "Mates Sor" were white. Accessions No. 77 and No. 78 were grown in farmers backyards and home gardens, respectively; however, the farmers told us that the seeds were not sown by them but were carried by birds and dropped there. Seed dispersal by birds is probably the origin of the name of the variety. According to the 2018 exploration in Northern Cambodia (Kondo et al. 2019), most of the dominant type of C. frutescens was suggested as "Mate Ach Sath." In the present study, out of 29 C. frutescens accessions, 19 were "Mate Ach Sath." This finding was identical to the result of the previous exploration in 2018.

Most of the chili accessions found in Southern Cambodia had viral infections. Accession No. 45, 46, and 47 were more severely infected with the virus than other accessions. However, some chili accessions were free of viral diseases, such as No. 14. Such accessions might be expected as good genetic resources for developing new resistant varieties.

According to our observations at the collection site, the mature fruit of accession No. 56 was separated from the calyx and pedicel very easily. The trait of easy separation of the pepper fruit from the calyx is for seed dispersal, but it is not desirable for the development of commercial varieties because the trait is associated with extreme fruit softening and juiciness. However, not all accessions of *C. frutescens* mature fruits were extremely soft and easily separated from the calyx. Some accessions' fruits required a little force to be separated from the calyx and were not too soft.

Eggplant

We collected five accessions of the genus *Solanum*, including three accessions of *S. melongena*, one of *S. torvum*, and one of *S. trilobatum*. *S. torvum* had a light green color pericarp and clustered small fruits. In Japan,

S. torvum is not eaten, but instead used as rootstock for eggplant grafting. Cambodian people eat immature fruits of S. torvum as vegetables (No. 44). We also had a chance to taste S. torvum soup with fresh vegetables in Phnom Penh (Photo 7). In our study, we did not find fresh mature fruits but only immature fruits; however, we collected dried mature fruits as accession No. 44. We also collected the accession (No. 74) of S. trilobatum for the PGR Asia Project in Cambodia. The surface of immature fruits of S. trilobatum showed a mottled green pattern, which became a mottled red pattern after maturing (No. 74). The stem of the grown S. trilobatum accession was a vine and had sharp prickles. Flowers were purple in color with a projecting stamen. According to interviews with farmers, they eat only the leaves of this vine and not its fruits.

2) Cucurbitaceous accessions

We collected 35 accessions of cucurbitaceous accessions, including 10 sponge gourds (Luffa cylindrica), 3 angled luffas (L. acutangula), 9 squashes/ pumpkins (Cucurbita moschata), 4 wax gourds (Benincasa hispida), 3 melons (Cucumis melo), 2 cucumbers (C. sativus), 2 bottle gourds (Lagenaria siceraria), 1 bitter gourd (Momordica charantia), and 1 ivy gourd (Coccinia grandis). All accessions' fruits were used as vegetables, except for bottle gourd and ivy gourd. Ivy gourd inhabited the roadside or backyard of farmers' houses as a weed, and, in some cases, the young leaves and tendrils are eaten as vegetables. We collected 2 species from the genus Luffa (sponge gourd and angled luffa), however, people who live in the collection area were not able to differentiate the two and their local name was the same ("No Nong"). Two species of Luffa were cultivated with trellis training, and almost all of the farmers stocked their seeds or dried fruits for the next season. The exploration site is a flood-prone area during the rainy season. Therefore, farmers told us that



Photo 7. Vegetables usage in Cambodian local cuisine (*Solanum torvum* is also included in the dipping sauce in the right)

they did not grow many vegetables in the rainy season. However, in most of the home gardens and backyards, we could observe one of two species of luffa sponge gourds because they told us that sponge gourds are able to survive in flood conditions. They stated that these luffa plants resisted not only floods but also droughts. Therefore, sponge gourd accessions might be useful for the breeding of drought and flood resistant varieties in Cucurbitaceae vegetables, if research will be improved.

3) Fabaceous accessions

The accessions of Fabaceae included four hyacinth beans (*Lablab purpureus*), three cowpeas (*Vigna unguiculate*), and one mungbean (*Vigna radiata*). Many farmers grew hyacinth beans because they stated it can thrive in the rainy season. Because of the limited crops available in flood-prone areas, only luffa and hyacinth beans were cultivated predominantly during the rainy season.

4) Amaranthaceous accessions

We collected eight species of Amaranthus accessions. All accessions were of the weedy type, which has black seeds, mainly A. blitum, and they are used as leafy vegetables. In the forestry area of Mean Chey village in Prey Veng province, we found an amaranth accession (No. 7) with thorns, identified as A. spinosus. Because amaranth is highly weedy, it grows in backyards and gardens even if farmers do not grow it, but in some cases, such as flood-prone areas, their seeds have been self-produced and preserved. The farmers stated that amaranth is a fast-growing plant and can be cultivated toward the end of the rainy season.

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南カンボジアにおける植物遺伝資源の共同探索。2019年

Sathya Prabandaka SUDASINGHE ¹⁾ • Leakhena MAT ²⁾ • 板東 克哉 ³⁾ • 山口 紘明 ⁴⁾ • Sophany SAKHAN ²⁾ • Makara OUK ²⁾ • 松島 憲一 ⁴⁾

- 1) 信州大学 大学院総合医理工学研究科総合理工学専攻
- 2) カンボジア農業開発研究所
- 3) 信州大学 農学部
- 4) 信州大学 学術研究院農学系

和文摘要

Plant Genetic Resources in Asia (PGRAsia) プロジェクトの下、研究開発法人 農業・食品産業技術総合研究機構(NARO)とカンボジア農業開発研究所(CARDI)は、2014年からミャンマーにおける植物遺伝資源探索を共同実施している。その一環として、2019年10月1日から10日までカンボジア南部の植物遺伝資源の探索・収集を実施した。探索は、Svay Rieng、Pery Veng、Kondal、Phnom Penh、Kompong Speu、Preah Sihanouk、Koh Kong、Kompot、Takeo 県を含むカンボジア南部の14地区で実施し、農家で保存している種子の他、庭または畑の植物から合計85系統を収集した。これらにはナス科が34系統、ウリ科が35系統、マメ科が8系統そしてヒユ科が8系統含まれ、そのうち、ナス科ではトウガラシが29系統収集されたが、いずれもC. frutescens に属するものであった。今回の探索地域は洪水多発地域であったため、雨季は通常の野菜栽培が少なく、洪水時でも栽培可能なヘチマ類やフジマメが重要な野菜とされていた。収集した遺伝資源種子は、SMTAによりカンボジアのCARDIと日本の農研機構遺伝資源センターのジーンバンクに均等に分配された。

Table 3. List of plant accessions collected in Cambodia during 2019 exploration

JP No.	Individual	Date	Species name	Local name	Province	District	Commune	Village	Latitude	Longitude		Source
271483	No.	2.004	Compioner funtagone	Mataa Anala Catla	Carra Diana	Creary Tages	Claustones	Veal	N11°03'37.2"	E106°00'13.0"	(m) 7	Field
	1		Capsicum frutescens	Mates Arch Sath		Svay Teap	Chrokmaras	+				+
271484	2		Luffa acutangula		Svay Rieng	Svay Teap	Chrokmaras	Veal			7	Field
271485	3		Capsicum frutescens	Mates Arch Sath		Svay Teap	Chrokmaras	Veal		E106°00'15.9"	5	Backyard
271486	4	2-Oct	Amaranthus sp.	Pty Dong	Svay Rieng	Svay Teap	Chrokmaras	Veal		E106°00'15.9"	5	Backyard
271487	5		Capsicum frutescens	Mates Arch Sath		Peam Chor	Kosh Chek	Mean Chey		E105°13'50.8"	11	Forest
271488	6		Capsicum frutescens	Mates Arch Sath		Peam Chor	Kosh Chek	Mean Chey	N11°04'23.1"		11	Forest
271489	7		Amaranthus sp.	 	Prey Veng	Peam Chor	Kosh Chek	'	N11°04'23.1"		11	Forest
271490	8	3-Oct	Luffa cylindrica	No Nong	Prey Veng	Peam Chor	Kosh Chek	Mean Chey		E105°13'50.8"	11	House
271491	9	3-Oct	Vigna ungulculata	Son Deak Kour	Prey Veng	Peam Chor	Kosh Chek	Mean Chey		E105°13'50.8"	11	House
271492	10		Amaranthus sp.	Pty Dong	Prey Veng	Peam Chor	Kosh Chek	Mean Chey		E105°13'50.8"	18	Backyard
271493	11		Benincasa hispida	Tro Lach	Prey Veng	Peam Chor	Kosh Chek	Mean Chey		E105°13'50.8"	18	House
271494	12	3-Oct	Cucurbita moschata	Lapov	Prey Veng	Peam Chor	Kosh Chek	Mean Chey	N11°04'23.1"	E105°13'50.8"	18	House
271495	13	3-Oct	Amaranthus sp.	Pty Dong	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'31.2"	E105°20'50.0"	*	Backyard
271496	14	3-Oct	Capsicum frutescens	Mates Arch Sath	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'31.2"		*	Backyard
271497	15	3-Oct	Cucurbita moschata	Lapov	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	House
271498	16	3-Oct	Vigna radiata	Son Deak Bay	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	House
271499	17	3-Oct	Benincasa hispida	Tro Lach	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	House
271500	18	3-Oct	Solanum melongena	Trob Srouy	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	House
271501	19	3-Oct	Luffa cylindrica	No Nong	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	House
271502	20	3-Oct	Capsicum frutescens	Mates Sor	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	Backyard
271503	21	3-Oct	Capsicum frutescens	Mates Arch Sath	Prey Veng	Prey Veng city	Та Ко	Shkor Dach	N11°30'50.4"	E105°21'02.5"	7	Backyard
271504	22	3-Oct	Capsicum frutescens	Mates Sor	Prey Veng	Prey Veng city	Та Ко	Knoy	N11°31'24.5"	E105°21'40.0"	9	Backyard
271505	23	3-Oct	Solanum melongena	Trob Srouy	Prey Veng	Prey Veng city	Та Ко	Knoy	N11°31'24.5"	E105°21'40.0"	9	Field
271506	24	3-Oct	Amaranthus sp.	Pty Dong	Prey Veng	Prey Veng city	Та Ко	Knoy	N11°31'24.5"	E105°21'40.0"	9	Backyard
271507	25	3-Oct	Luffa cylindrica	No Nong	Prey Veng	Prey Veng city	Та Ко	Knoy	N11°31'24.5"	E105°21'40.0"	9	House
271508	26	4-Oct	Luffa cylindrica	No Nong	Kandal	Takmoa	Roka Khpos	Prek Loung	N11°23'12.5"	E105°00'02.1"	13	House
271509	27	4-Oct	Coccinia grandis	Shlik Bas	Phnom Penh	Pou Senchey	Bing Thuom	Prey Ta Khea	N11°28'47.8"	E104°44'58.1"	34	Roadside
271510	28	4-Oct	Luffa acutangula	No Nong	Kampong Speu	Chba Moun	Chba Moun	Som Pov	N11°28'22.7"	E104°28'14.7"	43	House
271511	29	4-Oct	Capsicum frutescens	Mates Arch Sath	Kampong Speu	Tang Kroch	Tang Kroch	Choum Phey	N11°28'28.3"	E104°26'45.1"	47	Backyard
271512	30		Capsicum frutescens	Mates Sor	Kampong Speu	-	Tang Kroch	Choum Phey	N11°28'30.3"		47	Backyard
271513	31		Luffa cylindrica	No Nong	Kampong Speu		Tang Kroch	Choum Phey	N11°28'31.1"		44	Field
271514	32	5-Oct	Capsicum frutescens	Mates Arch Sath			Roka Yhwn			E104°31'16.2"	39	Market
271515	33	5-Oct	Capsicum frutescens	Matas Sor			Roka Yhwn	Pea Nichakam		E104°31'16.2"	39	Market
271516	34	5-Oct	Capsicum frutescens	Mates Arch Sath		Chba Moun	Roka Yhwn	Pea Nichakam		E104°31'16.2"	39	Market
271517	35		Cucurbita moschata	Lapov Klong			Roka Yhwn	Pea Nichakam		E104°31'16.2"	39	Market
271518	36		Cucurbita moschata	Lapuv Roy	Kampong Speu		Roka Yhwn	Pea Nichakam		E104°31'16.2"	39	Market
271519	37		Capsicum frutescens	Mates Sor	Kampong Speu		Roka Yhwn	Pea Nichakam		E104°31'16.3"	38	Market
271520	38		Capsicum frutescens			i	Kompong Seila	-		E103°54'12.3"	16	Backyard

Table 3. (Continued).

PNo. Individual Date Species name Local name Province District Commune Village Laffinde Longitude Laffinde Source Commune Village Laffinde Longitude Laffinde Commune Village Laffinde Longitude Commune Village Laffinde Longitude Laffinde Commune Village Laffinde Longitude Commune Village Laffinde Longitude Commune Village Laffinde Longitude Laffinde Commune Village Laffinde Longitude Laffinde Longitude Laffinde Longitude Laffinde Longitude Laffinde Longitude Laffinde Laffinde Longitude Laffinde Laf	Table 3	. (Continu	ied).										
271522 39 5-Oct Luffix cylindrica No Nong Preah Silamouk Kompong Seila Kompong Seila Kompong Seila Thmey N119472.0° E1035726.2° 14 Backyard 271523 41 5-Oct Capsicum Intersects Mates Arch Sath Preah Silamouk Kompong Seila Kompong Seila Thmey N119472.1° E1035726.2° 14 Backyard 271524 42 5-Oct Lagonaria sicararia Khlok Preah Silamouk Kompong Seila Kompong Seila Thmey N119472.2° E10357426.4° 14 Backyard 271524 42 5-Oct Lagonaria sicararia Khlok Preah Silamouk Kompong Seila Kompong Seila Thmey N119472.2° E10357426.4° 14 Backyard 47 14 14 14 14 14 14 14	JP No.	Individual	Date	Species name	Local name	Province	District	Commune	Village	Latitude	Longitude	Altitude	Source
271522 40 S-Oct Capsicum futescens Mates S or Predn Silanouk Kompong Seila Kompong Seila Timey Nii Pot 22. I° E103*926.2* 14 Backyard 271524 42 S-Oct Capsicum futescens Mates Arch Sath Kolk Predn Silanouk Kompong Seila Kompong Seila Timey Nii Pot 22. I° E103*926.2* 14 Backyard 271525 43 6-Oct Capsicum futescens Mates Arch Sath Kolk Nong Timor Bang Russic Citrom Koki Citrom Nii Pot 23. 3* E103*926.2* 14 Backyard 271527 45 6-Oct Capsicum futescens Mates Arch Sath Kolk Kong Timor Bang Russic Citrom Koki Citrom Nii Pot 24. 1* E103*2414.5* 366 Field 271529 47 6-Oct Capsicum futescens Mates Arch Sath Kolk Kong Timor Bang Russic Citrom Koki Citrom Nii Pot 14. E103*2414.5* 356 Field 271529 47 6-Oct Capsicum futescens Mates Arch Sath Kolk Kong Timor Bang Russic Citrom Koki Citrom Nii Pot 14. E103*2414.5* 356 Field 271529 47 6-Oct Capsicum futescens Mates Arch Sath Kolk Kong Timor Bang Russic Citrom Koki Citrom Nii Pot 14. E103*2414.5* 356 Field 271529 47 6-Oct Capsicum futescens Mates Arch Sath Kolk Kong Timor Bang Russic Citrom Koki Citrom Nii Pot 14. E103*2414.5* 356 Field 271539 49 7-Oct Albaba purpureus No Peny Khda Kampot Kompong Tirach Pansat Phanon Khorg Citrous Tasoum Nii No Peny Khda Russic Arch Sath Kompong Tirach Pansat Phanon Khorg Citrous Tasoum Nii No Peny Khda Russic Arch Sath Kompong Tirach Pansat Phanon Khorg Citrous Tasoum Nii No Peny Khda Russic Arch Sath Kompong Tirach Pansat Phanon Khorg Citrous Tasoum Nii No Peny Khda Russic Arch Sath R												(m)	
271522 41 5-Oct Capsicum friescens Mates Arch Sath Presh Shlanouk Kompong Seila Thmey N11°0472.2° E103°542°6.4° 14 Backyard Feel Shlanouk Kompong Seila Thmey N11°0472.2° E103°542°6.4° 14 Backyard Feel Shlanouk Kompong Seila Thmey N11°0472.2° E103°542°6.4° 14 Backyard Feel Standard Feel Standar			5-Oct	Luffa cylindrica				Kompong Seila				14	Backyard
271525 42 5-Oct Lagenaria sicratia Khlok Preab Silanouk Kompong Seila Kompong Seila Thmory N11'9473.23 210'3'42'76.5° 14 House 271526 44 6-Oct Capsicum fratescens Thro Jour Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'38'10.32'14.5° 346 Field 271527 45 6-Oct Capsicum fratescens Mates Arch Sath Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'39'11.4° E10'3'24'14.5° 346 Field 271527 45 6-Oct Capsicum fratescens Mates Arch Sath Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'39'11.4° E10'3'24'14.5° 356 Field 271529 47 6-Oct Capsicum fratescens Mates Arch Sath Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'39'11.4° E10'3'24'14.5° 356 Field 271529 47 6-Oct Capsicum fratescens Mates Arch Sath Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'39'11.4° E10'3'24'14.5° 356 Field 271529 47 6-Oct Capsicum fratescens Mates Arch Sath Koh Kong Thmor Bang Russie Chrom Koki Chrom N11'39'11.4° E10'3'24'14.5° 356 Field 271539 48 7-Oct Camarathus sp. Py Dong Kampot Kompong Trach Prass Plmom Khorg Chrous Tasoum N10'3'6'19.1° E10'4'3'13'6.2° 8 Backyard 271531 49 7-Oct Capsicum fratescens Mates Arch Sath Kampot Kompong Trach Prass Plmom Khorg Chrous Tasoum N10'3'6'19.1° E10'4'3'13'6.2° 8 Backyard 271533 51 7-Oct Capsicum fratescens Mates Arch Sath Kampot		40	5-Oct	Capsicum frutescens					Thmey	N11°04'32.1"	E103°54'26.3"		
271525 43 6-Oct Capsicum frutescens Mates Arch Sahl Koh Kong Thmor Bang Russie Chrom Kohi Chrom N119371.4" E103°2372.8" 346 Field 271527 45 6-Oct Capsicum frutescens Mates Arch Sahl Koh Kong Thmor Bang Russie Chrom Kohi Chrom N119911.4" E103°24'14.5" 356 Field 271528 46 6-Oct Capsicum frutescens Mates Arch Sahl Koh Kong Thmor Bang Russie Chrom Koki Chrom N1199'11.4" E103°24'14.5" 356 Field 271520 47 6-Oct Capsicum frutescens Mates Arch Sahl Koh Kong Thmor Bang Russie Chrom Koki Chrom N1199'11.4" E103°24'14.5" 356 Field 271520 48 7-Oct Ameranthus sp. Ptp Dong Kampot Kompong Trach Prasal Phnor Khong Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271532 50 7-Oct Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271533 51 7-Oct Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271533 53 7-Oct Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271533 53 7-Oct Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Chrous Tasoum N10°36'19.1" E104°3'36.7" 16 Market 271535 53 7-Oct Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Phnor Mates Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Phnor Mates Capsicum frutescens Mates Arch Sahl Kampot Kompong Trach Prasal Phnor Khong Phnor Mates Capsicum frutescens Prasal Phnor Khong Phnor Mates Phno	271523	41	5-Oct	Capsicum frutescens	Mates Arch Sath	Preah Sihanouk	Kompong Seila	Kompong Seila	Thmey	N11°04'32.2"	E103°54'26.4"	14	Backyard
271526			5-Oct	Lagenaria siceraria		Preah Sihanouk	Kompong Seila	Kompong Seila	Thmey	N11°04'32.3"	E103°54'26.5"		House
271527	271525		6-Oct	Capsicum frutescens	Mates Arch Sath	Koh Kong	Thmor Bang	Russie Chrom	Koki Chrom	N11°38'50.3"	E103°23'52.8"		
271528		44	6-Oct	Solanum torvum	Trob Jour	Koh Kong	Thmor Bang	Russie Chrom	Koki Chrom				
271530 47 6-Oct Capsicum frutescens Mates Arch Sath Kch Kong Thmor Bang Russic Chrom Koki Chrom N113911.4" E1032914.5" 356 Field 271530 48 7-Oct Capsicum frutescens Po Peay Khda Kampot Kompong Trach Prasur Phnom Kheorg Chrous Tasoum N103619.1" E1043136.2" 8 Backyard 271532 50 7-Oct Capsicum frutescens Mates Src Kampot Kompong Trach Prasur Phnom Kheorg Chrous Tasoum N103619.1" E1043136.2" 8 Backyard 271533 50 7-Oct Capsicum frutescens Mates Src Kampot Kompong Trach Prasur Phnom Kheorg Chrous Tasoum N103619.1" E1043136.2" 8 Backyard 271534 52 7-Oct Caucubita moschata Lapov Kampot Sorn Rong Ler Bonteay Meas Dom Nak Chombok N104472.4" E1043536.7" 16 Market 271535 53 7-Oct Caucubita moschata Lapov Kampot Sorn Rong Ler Bonteay Meas Dom Nak Chombok N104472.4" E1043556.9" 20 Market 271535 53 7-Oct Labiab purpureus Po Peay Khda Kampot Angkor Chey Phnom Kong Phnom Threal N1044611.8" E1043915.6" 22 Backyard 271537 55 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N1044611.8" E1043915.6" 22 Backyard 271536 57 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N1044611.8" E1043915.6" 22 Backyard 271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N105932.6" E1044204.4" 11 Backyard 271543 60 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N105932.6" E1044204.4" 11 Backyard 271543 61 7-Oct Capsicum frutescens No Nong Takeo Tram Kak Leay Bou Bak Kout N105932.6" E1044204.4" 11 Backyard 271543 61 7-Oct Capsicum frutescens No Nong Takeo Tram Kak Leay Bou Bak Kout N105932.6" E1044204.4" 11 House 271545 63 7-Oct Capsicum frutescens No Nong Takeo Tram Kak	271527	45	6-Oct	Capsicum frutescens	Mates Arch Sath	Koh Kong	Thmor Bang	Russie Chrom	Koki Chrom	N11°39'11.4"	E103°24'14.5"	356	Field
271530	271528	46	6-Oct	Capsicum frutescens	Mates Arch Sath	Koh Kong	Thmor Bang	Russie Chrom	Koki Chrom	N11°39'11.4"	E103°24'14.5"	356	Field
271531 49 7-Oct Lablab purpureus	271529	47	6-Oct	Capsicum frutescens	Mates Arch Sath	Koh Kong	Thmor Bang	Russie Chrom	Koki Chrom	N11°39'11.4"	E103°24'14.5"	356	Field
271532 50 7-Oct Capsicum frutescens Mates Arch Sath Kampot Kompong Trach Prasat Phnom Kheorg Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271533 51 7-Oct Capsicum frutescens Mates Sor Kampot Kompong Trach Prasat Phnom Kheorg Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271535 52 7-Oct Caucurbita moschata Lapvo Kampot Kompong Trach Prasat Phnom Kheorg Chrous Tasoum N10°36'19.1" E104°31'36.2" 8 Backyard 271535 53 7-Oct Caucurbita moschata Lapvo Kampot K	271530	48	7-Oct	Amaranthus sp.	Pty Dong	Kampot	Kompong Trach	Prasat Phnom Khcorg	Chrous Tasoum	N10°36'19.1"	E104°31'36.2"	8	Backyard
271533 51	271531	49	7-Oct	Lablab purpureus	Po Peay Khda	Kampot	Kompong Trach	Prasat Phnom Khcorg	Chrous Tasoum	N10°36'19.1"	E104°31'36.2"	8	Backyard
271534 52	271532	50	7-Oct	Capsicum frutescens	Mates Arch Sath	Kampot	Kompong Trach	Prasat Phnom Khcorg	Chrous Tasoum	N10°36'19.1"	E104°31'36.2"	8	Backyard
271535 53 7-Oct Cucumis melo Tro Sork Srov Kampot Sorn Rong Ler Bonteay Meas Dom Nak Chombok N10°4427.4" E104°35'5.69" 20 Market 271536 54 7-Oct Luffa cylindrica No Nong Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271537 55 7-Oct Lablab purpureus Po Peay Khda Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271538 56 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271539 57 7-Oct Lagearia siceraria Khlok Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271540 58 7-Oct Capsicum frutescens Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271540 58 7-Oct Capsicum frutescens Trab Kath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271542 60 7-Oct Lablab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271543 61 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271549 67 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5"	271533	51	7-Oct	Capsicum frutescens	Mates Sor	Kampot	Kompong Trach	Prasat Phnom Khcorg	Chrous Tasoum	N10°36'19.1"	E104°31'36.2"	8	Backyard
271536 54 7-Oct Luffa cylindrica No Nong Kampot Angkor Chey Phnom Kong Phnom Threal N10°4611.8" E104°39'15.6" 22 Backyard 271537 55 7-Oct Lablab purpureus Po Peay Khda Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271538 56 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271539 57 7-Oct Lagenaria siceraria Khlok Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271541 59 7-Oct Lablab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard E104'39'10.0" E104'32'04.4" 11 House E104'32'04.4" E104'39'10.0" E104'32'04.4" E104'30'10.0" E104'32'04.4" E104'30'10.0" E104'32'04.4" E104'30'10.0" E104'32'04.4" E104'30'10.0" E104'	271534	52	7-Oct	Cucurbita moschata	Lapov	Kampot	Sorn Rong Ler	Bonteay Meas	Dom Nak Chombok	N10°43'54.4"	E104°35'36.7"	16	Market
271537 55 7-Oct Lablab purpureus Po Peay Khda Kampot Angkor Chey Phnom Kong Phnom Threal N10°46′11.8" E104°39′15.6" 22 Backyard 271538 56 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N10°46′11.8" E104°39′15.6" 22 Backyard 271539 57 7-Oct Lagenaria siceraria Khlok Kampot Angkor Chey Phnom Kong Phnom Threal N10°46′14.0" E104°39′15.6" 22 Backyard 271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 Backyard 271542 60 7-Oct Cabiab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 Backyard 271542 60 7-Oct Lablab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271543 61 7-Oct Caucurbia moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271546 62 7-Oct Caucurbia moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59′32.8" E104°42′43.4" 10 Backyard 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59′32.8" E104°42′43.4" 10 Backyard 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Ang Koki N10°59′32.8" E104°42′43.4" 10 Backyard 271550 68 7-Oct Cacumbia sativus Tro Sork Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 68 7-Oct Cacumbia moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 Hous	271535	53	7-Oct	Cucumis melo	Tro Sork Srov	Kampot	Sorn Rong Ler	Bonteay Meas	Dom Nak Chombok	N10°44'27.4"	E104°35'56.9"	20	Market
271538 56 7-Oct Capsicum frutescens Mates Arch Sath Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'11.8" E104°39'15.6" 22 Backyard 271539 57 7-Oct Capsicum frutescens Khlok Kampot Angkor Chey Phnom Kong Phnom Threal N10°46'14.0" E104°39'10.0" 20 House 271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271542 60 7-Oct Cabicum frutescens Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271543 61 7-Oct Cabicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271544 62 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271544 63 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271546 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.8" E104°42'04.4" 11 House 271546 64 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'04.4" 11 Backyard 271547 65 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'04.4" 10 Backyard 271547 65 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum	271536	54	7-Oct	Luffa cylindrica	No Nong	Kampot	Angkor Chey	Phnom Kong	Phnom Threal	N10°46'11.8"	E104°39'15.6"	22	Backyard
271549 57 7-Oct Lagenaria siceraria Khlok Kampot Angkor Chey Phnom Kong Phnom Threal N10°46′14.0" E104°39′10.0" 20 House 271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 Backyard 271541 59 7-Oct Solanum melongena Trob Srouy Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 Backyard 271542 60 7-Oct Lablab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271544 62 7-Oct Luffa cylindrica No Nong Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59′32.6" E104°42′04.4" 11 House 271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59′32.8" E104°42′43.4" 10 Backyard 271546 64 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Khach Trouk N10°59′32.8" E104°42′43.4" 10 Backyard 271546 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°42′43.1" 10 Backyard 271548 66 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 68 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 68 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 68 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 69 7-Oct Capsicum frutescens Mates Sor Take	271537	55	7-Oct	Lablab purpureus	Po Peay Khda	Kampot	Angkor Chey	Phnom Kong	Phnom Threal	N10°46'11.8"	E104°39'15.6"	22	Backyard
271540 58 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271542 60 7-Oct Lollab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 Backyard 271542 60 7-Oct Lollab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271543 61 7-Oct Luffa cylindrica No Nong Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271544 62 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'32.8" E104°42'43.4" 10 Backyard 271549 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Capsicum frutescens Peay Caphilog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 69 7-Oct Capsicum frutescens Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 Backyard 271550 7-Oct Capsicum frutescens Takeo Tram Kak Leay Bou Ang Kok	271538	56	7-Oct	Capsicum frutescens	Mates Arch Sath	Kampot	Angkor Chey	Phnom Kong	Phnom Threal	N10°46'11.8"	E104°39'15.6"	22	Backyard
271541 59	271539	57	7-Oct	Lagenaria siceraria	Khlok	Kampot	Angkor Chey	Phnom Kong	Phnom Threal	N10°46'14.0"	E104°39'10.0"	20	House
271542 60 7-Oct Lablab purpureus Po Peay Khda Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271543 61 7-Oct Luffa cylindrica No Nong Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271544 62 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271547 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°42'43.4" 10 Backyard 271548 66 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°42'43.18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 Backyard 271552 70 8-Oct Benincasa hispida Tro Lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271555 73 8-Oct Cucurbita moschata Lapov Klong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271555 74 8-Oct Cucurbita moschata Lapov Klong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271555 75 8-Oct Luffa cylindrica No Nong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 Backyard 271557 75 8-Oct Luffa cylindrica No	271540	58	7-Oct	Capsicum frutescens	Mates Arch Sath	Takeo	Tram Kak	Leay Bou	Bak Kout	N10°59'32.6"	E104°42'04.4"	11	Backyard
271543 61 7-Oct Luffa cylindrica No Nong Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House	271541	59	7-Oct	Solanum melongena	Trob Srouy	Takeo	Tram Kak	Leay Bou	Bak Kout	N10°59'32.6"	E104°42'04.4"	11	Backyard
271544 62 7-Oct Cucurbita moschata Lapov Takeo Tram Kak Leay Bou Bak Kout N10°59'32.6" E104°42'04.4" 11 House 271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271547 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271548 66 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" <td>271542</td> <td>60</td> <td>7-Oct</td> <td>Lablab purpureus</td> <td>Po Peay Khda</td> <td>Takeo</td> <td>Tram Kak</td> <td>Leay Bou</td> <td>Bak Kout</td> <td>N10°59'32.6"</td> <td>E104°42'04.4"</td> <td>11</td> <td>House</td>	271542	60	7-Oct	Lablab purpureus	Po Peay Khda	Takeo	Tram Kak	Leay Bou	Bak Kout	N10°59'32.6"	E104°42'04.4"	11	House
271545 63 7-Oct Capsicum frutescens Mates Arch Sath Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271547 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271548 66 7-Oct Cucumis sativus Tro Sork Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" <td>271543</td> <td>61</td> <td>7-Oct</td> <td>Luffa cylindrica</td> <td>No Nong</td> <td>Takeo</td> <td>Tram Kak</td> <td>Leay Bou</td> <td>Bak Kout</td> <td>N10°59'32.6"</td> <td>E104°42'04.4"</td> <td>11</td> <td>House</td>	271543	61	7-Oct	Luffa cylindrica	No Nong	Takeo	Tram Kak	Leay Bou	Bak Kout	N10°59'32.6"	E104°42'04.4"	11	House
271546 64 7-Oct Amaranthus sp. Pty Dong Takeo Tram Kak Leay Bou Khach Trouk N10°59'32.8" E104°42'43.4" 10 Backyard 271547 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271548 66 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum firutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8"	271544	62	7-Oct	Cucurbita moschata	Lapov	Takeo	Tram Kak	Leay Bou	Bak Kout	N10°59'32.6"	E104°42'04.4"	11	House
271547 65 7-Oct Luffa acutangula No Nong Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271548 66 7-Oct Cucumis sativus Tro Sork Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271549 67 7-Oct Cucumita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 Backyard 271552 70 8-Oct Benincasa hispida Tro Lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 Backyard 271554 72 8-Oct Cucurbita moschata <td< td=""><td>271545</td><td>63</td><td>7-Oct</td><td>Capsicum frutescens</td><td>Mates Arch Sath</td><td>Takeo</td><td>Tram Kak</td><td>Leay Bou</td><td>Khach Trouk</td><td>N10°59'32.8"</td><td>E104°42'43.4"</td><td>10</td><td>Backyard</td></td<>	271545	63	7-Oct	Capsicum frutescens	Mates Arch Sath	Takeo	Tram Kak	Leay Bou	Khach Trouk	N10°59'32.8"	E104°42'43.4"	10	Backyard
271548 66 7-Oct Cucumis sativus Tro Sork Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 House 271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 Backyard 271552 70 8-Oct Benincasa hispida Tro Lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°09'18.0" E104°54'21.0" 10 Backyard 271553 71 8-Oct Cucurbita moschata Lapov Klong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07	271546	64	7-Oct	Amaranthus sp.	Pty Dong	Takeo	Tram Kak	Leay Bou	Khach Trouk	N10°59'32.8"	E104°42'43.4"	10	Backyard
271549 67 7-Oct Cucurbita moschata Lapuv Roy Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271550 68 7-Oct Lablab purpureus Po Peay chhlog Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 House 271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59′22.8" E104°43′18.5" 8 Backyard 271552 70 8-Oct Benincasa hispida Tro Lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°09′18.0" E104°54′21.0" 10 Backyard 271553 71 8-Oct Cucurbita moschata Lapov Klong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07′41.0" E104°54′19.0" 10 House 271555 73 8-Oct Benincasa hispida Tro lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°07′41.0" E104°54′19.0" 10 House 271556 74 8-Oct Solanum trilobatum Trob jour Takeo Prey Kabas Choum Pa Choum Phoprik N11°07′43.0" E104°54′19.0" 10 Backyard Choum Pa Choum Phoprik N11°07′43.0" E104°54′19.0" 10 Backyard Choum Pa Choum Phoprik N11°07′43.0" E104°54′19.0" 10 Backyard Choum Phoprik N11°07′43.0" E104°54′19.0" 10 Backyard Choum Pa Choum Phoprik N11°07′43.0" E104°54′19.0" 10 Backyard Choum Phoprik N11°07′45.0" E104°54′19.0" 10 Backyard Choum Phoprik N11°07′45.0" E104°54′19.0" 10 Backyard Choum Phoprik N11°07′45.0" E104°54′18.0" 10 Backyard Choum Phoprik N11°0	271547	65	7-Oct	Luffa acutangula	No Nong	Takeo	Tram Kak	Leay Bou	Ang Koki	N10°59'22.8"	E104°43'18.5"	8	House
271550687-OctLablab purpureusPo Peay chhlogTakeoTram KakLeay BouAng KokiN10°59'22.8"E104°43'18.5"8House271551697-OctCapsicum frutescensMates SorTakeoTram KakLeay BouAng KokiN10°59'22.8"E104°43'18.5"8Backyard271552708-OctBenincasa hispidaTro LachTakeoPrey KabasChoum PaChoum PhoprikN11°09'18.0"E104°54'21.0"10Backyard271553718-OctCucumis meloTro Sork SrovTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271554728-OctCucurbita moschataLapov KlongTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard	271548	66	7-Oct	Cucumis sativus	Tro Sork	Takeo	Tram Kak	Leay Bou	Ang Koki	N10°59'22.8"	E104°43'18.5"	8	House
271551 69 7-Oct Capsicum frutescens Mates Sor Takeo Tram Kak Leay Bou Ang Koki N10°59'22.8" E104°43'18.5" 8 Backyard 271552 70 8-Oct Benincasa hispida Tro Lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°09'18.0" E104°54'21.0" 10 Backyard 271553 71 8-Oct Cucumis melo Tro Sork Srov Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271554 72 8-Oct Cucurbita moschata Lapov Klong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271555 73 8-Oct Benincasa hispida Tro lach Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'41.0" E104°54'19.0" 10 House 271556 74 8-Oct Solanum trilobatum Trob jour Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'43.0" E104°54'19.0" 10 Backyard 271557 75 8-Oct Luffa cylindrica No Nong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'45.0" E104°54'18.0" 10 Backyard	271549	67	7-Oct	Cucurbita moschata	Lapuv Roy	Takeo	Tram Kak	Leay Bou	Ang Koki	N10°59'22.8"	E104°43'18.5"	8	House
271552708-OctBenincasa hispidaTro LachTakeoPrey KabasChoum PaChoum PhoprikN11°09'18.0"E104°54'21.0"10Backyard271553718-OctCucumis meloTro Sork SrovTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271554728-OctCucurbita moschataLapov KlongTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard	271550	68	7-Oct	Lablab purpureus	Po Peay chhlog	Takeo	Tram Kak	Leay Bou	Ang Koki	N10°59'22.8"	E104°43'18.5"	8	House
271553718-OctCucumis meloTro Sork SrovTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271554728-OctCucurbita moschataLapov KlongTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard	271551	69	7-Oct	Capsicum frutescens	Mates Sor	Takeo	Tram Kak	Leay Bou	Ang Koki	N10°59'22.8"	E104°43'18.5"	8	Backyard
271553718-OctCucumis meloTro Sork SrovTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271554728-OctCucurbita moschataLapov KlongTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard	271552	70	8-Oct	Benincasa hispida	Tro Lach	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°09'18.0"	E104°54'21.0"	10	Backyard
271554728-OctCucurbita moschataLapov KlongTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard		71	8-Oct	-	Tro Sork Srov	Takeo	_	Choum Pa	· ·	N11°07'41.0"	E104°54'19.0"	10	
271555738-OctBenincasa hispidaTro lachTakeoPrey KabasChoum PaChoum PhoprikN11°07'41.0"E104°54'19.0"10House271556748-OctSolanum trilobatumTrob jourTakeoPrey KabasChoum PaChoum PhoprikN11°07'43.0"E104°54'19.0"10Backyard271557758-OctLuffa cylindricaNo NongTakeoPrey KabasChoum PaChoum PhoprikN11°07'45.0"E104°54'18.0"10Backyard		72	8-Oct	Cucurbita moschata	Lapov Klong	Takeo	<u> </u>	Choum Pa	Choum Phoprik	N11°07'41.0"	E104°54'19.0"	10	House
271556 74 8-Oct Solanum trilobatum Trob jour Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'43.0" E104°54'19.0" 10 Backyard 271557 75 8-Oct Luffa cylindrica No Nong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'45.0" E104°54'18.0" 10 Backyard	271555	73	8-Oct	Benincasa hispida		Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'41.0"	E104°54'19.0"	10	House
271557 75 8-Oct Luffa cylindrica No Nong Takeo Prey Kabas Choum Pa Choum Phoprik N11°07'45.0" E104°54'18.0" 10 Backyard	271556	74			Trob jour	Takeo		Choum Pa	-	N11°07'43.0"	E104°54'19.0"	10	Backyard
			8-Oct					Choum Pa		-		10	
	271558		8-Oct	'	 		Prey Kabas	-	-	 		10	Field

Table 3. (Continued).

JP No.	Individual	Date	Species name	Local name	Province	District	Commune	Village	Latitude	Longitude	Altitude	Source
	No.										(m)	
271559	77	8-Oct	Capsicum frutescens	Mates Sor	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	Backyard
271560	78	8-Oct	Capsicum frutescens	Mates Arch Sath	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	Backyard
271561	79	8-Oct	Amaranthus sp.	Pty Dong	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	Backyard
271562	80	8-Oct	Luffa cylindrica	No Nong	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House
271563	81	8-Oct	Vigna unguiculata	Son Deak Vag	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House
271564	82	8-Oct	Vigna unguiculata	Son Deak Seag	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House
271565	83	8-Oct	Cucumis melo	Tro Sork Srov	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House
271566	84	8-Oct	Cucumis sativus	Tro Sork	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House
271567	85	8-Oct	Cucurbita moschata	Lapov Klong	Takeo	Prey Kabas	Choum Pa	Choum Phoprik	N11°07'44.0"	E104°54'15.0"	10	House



Sample Photo 1. No. 1. *Capsicum frutescens*



Sample Photo 2. No. 2. *Luffa acutangula*



Sample Photo 3. No. 3. *Capsicum frutescens*



Sample Photo 4. No. 4. *Amaranthus* sp.



Sample Photo 5. No. 5. Capsicum frutescens



Sample Photo 6. No. 6. Capsicum frutescens



Sample Photo 7. No. 7. *Amaranthus* sp.



Sample Photo 8. No. 8. *Luffa cylindrica*



Sample Photo 9. No. 9. *Vigna unguiculata*



Sample Photo 10. No. 10. Amaranthus sp.



Sample Photo 11. No. 11. Benincasa hispida



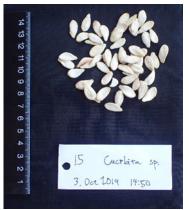
Sample Photo 12. No. 12. *Cucurbita moschata*



Sample Photo 13. No. 13. Amaranthus sp.



Sample Photo 14.
No. 14. *Capsicum frutescens*



Sample Photo 15. No. 15. Cucurbita moschata



Sample Photo 16. No. 16. *Vigna radiata*



Sample Photo 17. No. 17. *Benincasa hispida*



Sample Photo 18. No. 18. *Solanum melongena*



Sample Photo 19. No. 19. *Luffa cylindrica*



Sample Photo 20. No. 20. *Capsicum frutescens*



Sample Photo 21. No. 21. *Capsicum frutescens*



Sample Photo 22. No. 22. *Capsicum frutescens*



Sample Photo 23. No. 23. Solanum melongena



Sample Photo 24. No. 24. *Amaranthus* sp.



Sample Photo 25. No. 25. *Luffa cylindrica*



Sample Photo 26. No. 27. Coccinia grandis



Sample Photo 27. No. 28. *Luffa acutangula*



Sample Photo 28. No. 29. *Capsicum frutescens*



Sample Photo 29. No. 30. *Capsicum frutescens*



Sample Photo 30. No. 31. *Luffa cylindrica*



Sample Photo 31. No. 32. *Capsicum frutescens*



Sample Photo 32.
No. 33. Capsicum frutescens



Sample Photo 33. No. 34. *Capsicum frutescens*



Sample Photo 34. Sold fruit of No. 35 *Cucurbita moschata*, at the market.



Sample Photo 35. No. 35. *Cucurbita moschata*



Sample Photo 36. No. 36. *Cucurbita moschata*



Sample Photo 37. No. 37. *Capsicum frutescens*



Sample Photo 38. No. 38. *Capsicum frutescens*



Sample Photo 39. Immature fruit of No. 39 *Luffa cylindrica* on the plant.



Sample Photo 40. Dried mature fruit of No. 39. Luffa cylindrica for seeds.



Sample Photo 41. No. 40. *Capsicum frutescens*



Sample Photo 42. No. 41. *Capsicum frutescens*



Sample Photo 43. No. 42. *Lagenaria siceraria*



Sample Photo 44. No. 43. *Capsicum frutescens*



Sample Photo 45.
No. 44. *Solanum torvum*



Sample Photo 46. No. 45. *Capsicum frutescens*



Sample Photo 47. No. 46. *Capsicum frutescens*



Sample Photo 48. No. 47. *Capsicum frutescens*



Sample Photo 49. No. 48. *Amaranthus* sp.



Sample Photo 50. No. 49. *Lablab purpureus*



Sample Photo 51. No. 50. *Capsicum frutescens*



Sample Photo 52. No. 51. *Capsicum frutescens*



Sample Photo 53. No. 52. Cucurbita moschata



Sample Photo 54. No. 53. Cucumis melo



Sample Photo 55. No. 54. *Luffa cylindrica*



Sample Photo 56. No. 55. *Lablab purpureus*



Sample Photo 57. No. 56. *Capsicum frutescens*



Sample Photo 58. No. 57. *Lagenaria siceraria*



Sample Photo 59. No. 58. *Capsicum frutescens*



Sample Photo 60. No. 59. *Solanum melongena*



Sample Photo 61. No. 60. *Lablab purpureus*



Sample Photo 62. No. 61. *Luffa cylindrica*



Sample Photo 63. No. 62. Cucurbita moschata



Sample Photo 64. No. 63. *Capsicum frutescens*



Sample Photo 65. No. 64. *Amaranthus* sp.



Sample Photo 66. No. 65. Luffa acutangula



Sample Photo 67.
No. 66. Cucumis sativus



Sample Photo 68. No. 67. Cucurbita moschata



Sample Photo 69. No. 68. *Lablab purpureus*



Sample Photo 70. No. 69. *Capsicum frutescens*



Sample Photo 71. No. 70. *Benincasa hispida*



Sample Photo 72. No. 71. *Cucumis melo*



Sample Photo 73. No. 72. *Cucurbita moschata*



Sample Photo 74. No. 73. *Benincasa hispida*



Sample Photo 75. No. 74. Solanum trilobatum



Sample Photo 76. Flower of No. 74. *Solanum trilobatum*



Sample Photo 77. Leaves of No. 74. *Solanum trilobatum*



Sample Photo 78. Flower of No. 75. *Luffa cylindrica*



Sample Photo 79.

Mature fruit of No. 75. *Luffa cylindrica*



Sample Photo 80. No. 76. *Momordica charantia*



Sample Photo 81. No. 77. *Capsicum frutescens*



Sample Photo 82. No. 78. *Capsicum frutescens*



Sample Photo 83. No. 79. *Amaranthus* sp.



Sample Photo 84. No. 80. *Luffa cylindrica*



Sample Photo 85. No. 81. Vigna unguiculata



Sample Photo 86. No. 82. *Vigna unguiculata*



Sample Photo 87. No. 83. *Cucumis melo*



Sample Photo 88. No. 84. *Cucumis sativus*



Sample Photo 89. No. 85. *Cucurbita moschata*