Community Fruit Catalogue, Thailand

1 Introduction
The fruit catalogue was recorded as part of the tropical fruit tree diversity of the project ‘Conservation and sustainable use of cultivated and wild tropical fruit diversity: promoting sustainable livelihoods, food security and ecosystem services’. The project, known as the Tropical Fruit Tree Genetic Resources (TFTGR) project which is implemented in four countries, including India, Indonesia, Malaysia and Thailand. The responsible organizations are the Indian Council of Agricultural Research (ICAR) in India, the Indonesian Centre for Horticulture Research and Development (ICHORD) in Indonesia, the Malaysian Agriculture Research and Development Institute (MARDI) in Malaysia and the Department of Agriculture (DOA) in Thailand.

Site study
Study sites were selected to represent this wide range of agro-ecosystems. In total 6 project communities located in 5 sites in Thailand were selected, as shown in figure 1.

Figure 1: Project sites and communities
Description of the sites and communities

In Thailand, fruit catalogues were documented in 5 regions, (1) Northern region at Mae-O Nai subdistrict, Chiang Dao district in Chiang Mai province, (2) Northeast region at Huai Thap Than subdistrict, Huai Thap Than district in Si Sa Ket province, (3) Eastern region at Klong Na-rai subdistrict, Muang district and at Trok Nong subdistrict, Khlung district in Chanthaburi province, (4) Upper south region at Kamloan subdistrict, Lanska district in Nakhon Si Thammarat province, and (5) Lower south region at Nong Bua subdistrict, Rasda district in Trang province. Their descriptions can be briefly illustrated as follows.

Chiangmai (mangifera + citrus)

Mai-O Nai subdistrict, Chiang Mai, located in the mountainous Northern part of Thailand, is mostly hilly and rainfed areas near the buffer zone to the forest in the higher mountains. In the winter the temperature is cool enough for the cultivation of fruits such as lychees and strawberries. The higher mountains in this area are cut by steep river valleys and upland areas. The Ping river lies in the lowlands forming the major watershed in this area. Traditionally, these natural features made possible several different types of agriculture including wet-rice farming or fruit home gardens in the valleys and shifting cultivation in the uplands. The forested mountains include stands of teak and other economically useful hardwoods that are dominant in the area. Mangifera and Citrus orchard, the target fruit trees, mostly found on the upper moderate fertile land extending about 1 to 1.5 km along the Ping River basin next to alluvial benches that rise 5 to 10 m above the 3 km-wide floodplain of the Ping River. The upper lowlands consist of fruit orchards, field crops, paddy rice fields and urban areas and villages. Cultivated crops include corn, upland and lowland rice, vegetables and flower farms.

Chanthaburi (mangifera + garcinia + nephelium + citrus)

Klong Na Rai and Trok Nong, Chanthaburi are in the Eastern region which is close to short mountain ranges alternating with small basins of short rivers that drain into the Gulf of Thailand. Their locations topography are undulating and also near to the shore to the Gulf of Thailand and thus the land is mostly coastal alluvial plains. The soils in this area are moderate to highly fertile under the typical local weather characterized by high humidity, high rain intensity and warm temperature providing conditions that favour fruit tree production as well as other economic crops. Tropical tree fruits are among the main products of Chanthaburi province. For instance, in 2000, Chanthaburi produced durian fruits around 380,000 tonnes which was nearly a half of Thailand’s durian production and approximately almost one-third of the world production of this kind of fruit. The production of *Garcinia mangostana* and *Nephelium lappaceum* in this area are second and third to durian’s.
Sisaket (garcinia + mangifera + citrus)

Huai Thap Than district, Si Sa Ket province is located in the Northeast plateau of Thailand which is on the flat part of the plateau with its poor soils where rice, the staple food of the region thrives and where fields can be flooded when the short monsoon season brings heavy flooding in the river valleys where *Garcinia* sp. or locally known as Madan grows abundantly and naturally along the banks of the Thap Than stream which drain into the Mul river, one of the longest river in the Northeast. The natural Madan habitat is utilized for producing well known unique product of Huai Thap Than subdistrict which is chicken grilled with Madan stick. The gums that secreted from the madan sticks adds flavour and aroma to the grilled chicken and make it as special cuisine in this area. This product has been popularly known for more than 50 years. However, with the great demand for the madan sticks, the plant species is now vulnerable to over-exploitation leading to locally extinct. Hence there has been effort by the community to manage this *Garcinia* sp. for the long term and sustainable use.

Nakorn Si Thammarat (mangifera + garcinia + citrus + nephelium)

Kiriwong village at Kamloan subdistrict, Lanska district in Nakhon Si Thammarat province, situated on the upper part of Southern region of Thailand in the cradle of the Khao Luang mountain range, is renowned for its extraordinarily creative and resilient people and stunning natural beauty. Kiriwong’s history is an inspiring story of self-reliance, unity in the face of numerous challenges, and enduring commitment to a simple, traditional way of life. The Kiriwong community was divided into many groups such as tie-dye group, herbal group, coconut shell group, juice group, wine group and preserved durian. Each group has its own product that is popular with the consumers and tourists that come will buy them for souvenir because these products are not expensive and have high quality.

Trang (mangifera + garcinia + nephelium + citrus)

Nong Bua subdistrict, Rasda district, Trang province is located in the lower part of Southern region on the coast of the Andaman Sea. There are only few plains, and most of the area is hills. About 70% of the total area in Nongbua is hilly and mountainous. The main crop is rubber, intercropped with salacca, longkong, mangosteen, neem tree, also intercropped with shrubs and annual vegetables. The homegarden is a multiple-layer multi-cropping system. The crops grown can be divided into three layers, (a) first layers planting includes durian (*Durio zibethinus* Linn.), rambutan, mangosteen, betel nut and mamut, (b) second layer consists of lime, somsa, mangua, mapring, chompu and cinnamon, (d) third layer covers local indigenous vegetables, tuber crops, cadamon, torch ginger, wild ginger, galanga, ground cover crops, herbs and spices, and climbers.
# Table of Content

1. Introduction ........................................................................................................... 1  
2. Table of content .................................................................................................... 4  
3. Fruit catalogue of Chiangmai .............................................................................. 5  
4. Fruit catalogue of Sisaket .................................................................................. 32  
5. Fruit catalogue of Chanthaburi ......................................................................... 80  
6. Fruit catalogue of Nakhon Si Thammarat ......................................................... 96  
7. Fruit catalogue of Trang ..................................................................................... 103
CHIANG MAI
Citrus spp.
Manao Phuenmueang

1. Botanical name: *Citrus aurantifolia* Swing.
2. Meaning of local name: lime of local origin
3. Flowering season: All year
4. Fruiting season: All year
5. Productivity estimate:
   - 30 kg per time and 750 kg per tree per year
6. Farmer descriptor:
   - Leaves: acuminate leave, small size, deep green colour
   - Flower: small size, white colour, short peduncle
   - Fruit: small size, green colour, yellow colour (mature)
7. Uses:
   - Fruit is used for pickle, jam/conserve, fresh juice and as spice ingredient
8. Key traits & characteristics:
   - Is a late fruiting type (June, July) which fetches a good price
   - Is preferred most as spice ingredient and juice
9. Good practises and conservation action:
   - Mostly propagated by air layering
10. Description of location where tree found:
    - Ban Mae O Nai village, Chiang Dao district in the north of Thailand, located at 500-600 meters above sea level.
11. Latitude, Longitude:
    - N 19°17.388’, E 098°01.764’
12. Relative abundance of the variety:
    - Few trees in many households, mostly in home gardens
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Suradet Tapuan
14. Comments:
    - It is popular in local and Chiang Mai city market
    - It is responsive to fertilizer, irrigation and resistant to pests and diseases

Mr. Suradet Tapuan (Farmer)
Manao Paen

1. Botanical name: *Citrus aurantifolia* Swing.
2. Meaning of local name: Characteristics of the circular or round.
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 40 kg./tree/season
7. Farmer descriptor:
   - Leaves: deep green, small and sharp
   - Flower: white colour, short peduncle
   - Fruit: small size, green colour, yellow colour (mature), tabular shape, have seeds
8. Uses and key traits & characteristics:
   - Fruit: pickle, conserve
   - Leaves and juice: ingredient in food
9. Market traits:
   As the popularity of the taste and cooking.
10. What conservation actions or related good practises are done (an image based if possible)
    Farmers propagate, distribute to the community
11. Description of location where tree found: seeds from market
12. Latitude, Longitude: N 19° 17.593’, E 098° 59.978’

![Image](image1.png)

Mr. Suradet Tapuan (Farmer)

13. Comments:
1. It is popular of local market and markets in city
2. Varieties responsive to fertilizer, irrigation maintenance and disease pests.
Manao Phan Rai Malet

1. Botanical name: *Citrus aurantifolia* Swing.
2. Meaning of local name: seedless varieties
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 30 kg./tree
7. Farmer descriptor:
   - Leaves: acuminate leave, small size, deep green colour
   - Flower: small size, white colour, short peduncle
   - Fruit: big size, green colour, yellow colour (mature), seedless
8. Uses and key traits & characteristics:
   - Leaves and juice: ingredient in food
9. Market traits:
   - Good taste and flavor for cooking
10. What conservation actions or related good practises are done (an image based if possible)
    (Farmers sell, distribute to the community).
11. Description of location where tree found: seeds from market
12. Latitude, Longitude: N 19° 17.720’, E 098° 59.999’

Mr. Suradet Tapuan (Farmer)

13. Comments:
1. More demand in local and city markets
2. Varieties responsive to fertilizer, irrigation maintenance and disease pests.
Makrut Phan Phuenmueang

1. Botanical name: *Citrus hystrix* DC.
2. Meaning of local name: native variety
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 20 kg./tree/season
7. Farmer descriptor:
   - Leaves: deep green, small and sharp
   - Flower: white colour, short peduncle, small size
   - Fruit: medium fruit size, green colour, yellow colour (mature), smooth skin, have seeds
8. Uses and key traits & characteristics:
   - Leaves: ingredient in food
   - Juice: ingredient in food (Thai salad)
9. Market traits:
   (Good taste and good flavor for cooking)
10. What conservation actions or related good practises are done (an image based if possible)
    (Farmers sell, distribute to the community).
11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao
12. Latitude, Longitude: N 19° 17.593', E 098° 59.978'

Mr. Suradet Tapuan (Farmer)

13. Comments:
1. More demand in local and city markets
2. Varieties responsive to fertilizer, irrigation maintenance and disease pests.
Makrut Phan Phraratchathan

1. Botanical name: *Citrus hystrix* DC.
2. Meaning of local name: variety from the King
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 20 kg./tree/season
7. Farmer descriptor:
   - Leaves: acuminate leave, small size, deep green colour
   - Flower: small size, white colour, short peduncle
   - Fruit: big size, green colour, yellow colour (mature), have seeds
8. Uses and key traits & characteristics:
   - Leaves and juice: ingredient in food
9. Market traits:
   Good taste and good flavor for cooking
10. What conservation actions or related good practises are done (an image based if possible)
    Farmers sell, distribute to the community
11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao
12. Latitude, Longitude: N 19° 17.593', E 098° 59.978'

Mr. Suradet Tapuan (Farmer)

13. Comments:
    1. More demand in local and city markets
    2. Varieties response to fertilizer, irrigation maintenance and tolerate disease and pest
<table>
<thead>
<tr>
<th><strong>Som O Phan Khao Chai Nat</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Meaning of local name: From Chai Nat province</td>
</tr>
<tr>
<td>3. Relative abundance of the variety: -</td>
</tr>
<tr>
<td>4. Flowering season: All year</td>
</tr>
<tr>
<td>5. Fruiting season: All year</td>
</tr>
<tr>
<td>6. Productivity estimate: 150 kg./tree/season</td>
</tr>
<tr>
<td>7. Farmer descriptor:</td>
</tr>
<tr>
<td>- Leaves: big size, deep green colour</td>
</tr>
<tr>
<td>- Flower: small size, white colour, short peduncle</td>
</tr>
<tr>
<td>- Fruit: big size, green colour, yellow colour (mature), smooth skin, have seeds</td>
</tr>
<tr>
<td>8. Uses and key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Fruit: ingredient in food, snack</td>
</tr>
<tr>
<td>9. Market traits:</td>
</tr>
<tr>
<td>(Good taste and flavor for fresh cut)</td>
</tr>
<tr>
<td>10. What conservation actions or related good practices are done (an image based if possible)</td>
</tr>
<tr>
<td>Farmers sell, distribute to the community</td>
</tr>
<tr>
<td>11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao</td>
</tr>
<tr>
<td>12. Latitude, Longitude: N 19° 17.592’, E 098° 01.764’</td>
</tr>
</tbody>
</table>

**Mr. Suradet Tapuan (Farmer)**

13. Comments: |
| 1. More demand in local and city markets |
| 2. Varieties response to fertilizer, irrigation maintenance and tolerate disease and pest |
Som O Phan Khaoyai

2. Meaning of local name:
   White colour and big size
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 150 kg./tree/season
7. Farmer descriptor:
   - Leaves: big size, deep green colour
   - Flower: small size, white colour, short peduncle
   - Fruit: big size, green colour, yellow colour (mature)
8. Uses and key traits & characteristics:
   - Fruit: ingredient in food, snack
9. Market traits:
   - Good taste and flavor, good for eaten fresh
10. What conservation actions or related good practises are done (an image based if possible)
    Farmers sell, distribute to the community
11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao
12. Latitude, Longitude: N 19° 17.592’, E 098° 01.764’

Mr. Suradet Tapuan (Farmer)

13. Comments:
1. More demand in local and city markets
2. Varieties response to fertilizer, irrigation maintenance and tolerate disease and pest.
Som O Phan Phuenmueang

2. Meaning of local name: native varieties
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 150 kg./tree/season
7. Farmer descriptor:
   - Leaves: big size, deep green
   - Flower: small size, white colour, short peduncle
   - Fruit: green colour, yellow colour (mature), round shape, smooth skin, have seeds, light red pulp
8. Uses and key traits & characteristics:
   - Fruit: ingredient in food, snack
9. Market traits:
   Good taste and good flavor for eaten fresh
10. What conservation actions or related good practises are done (an image based if possible)
    Farmers are breeding to sell, distribute to the community
11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao
12. Latitude, Longitude: N 19° 17.593’, E 098° 59.978’

Mr. Suradet Tapuan (Farmer)

13. Comments:
1. More demand in local and city markets
2. Varieties response to fertilizer, irrigation maintenance and tolerate disease and pest.
**Som O Phan Khao Paen**

2. Meaning of local name: White colour and circle fruit shape
3. Relative abundance of the variety: -
4. Flowering season: All year
5. Fruiting season: All year
6. Productivity estimate: 150 kg./tree/season
7. Farmer descriptor:
   - Leaves: big size, deep green
   - Flower: small size, white colour, short peduncle
   - Fruit: big size, green colour, yellow colour (mature), tabular shape, smooth skin, have seeds
8. Uses and key traits & characteristics:
   - Fruit: ingredient in food, snack
9. Market traits:
   - Good taste and flavor to be eaten fresh
10. What conservation actions or related good practises are done (an image based if possible)
    Farmers propagate for cultivation in their area
11. Description of location where tree found: Ban Mae O Nai, Amphoe Chiang Dao
12. Latitude, Longitude: N 19° 17.592’, E 098° 01.764’

![Image of Mr. Suradet Tapuan (Farmer)](image)

13. Comments:
1. More demand in local and city markets
2. Varieties response to fertilizer, irrigation maintenance and tolerate disease and pest.
Mangifera spp.
<table>
<thead>
<tr>
<th>No.</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Botanical name: <em>Mangifera indica</em> L.</td>
</tr>
<tr>
<td>2.</td>
<td>Meaning of local name: Location of first found</td>
</tr>
<tr>
<td>3.</td>
<td>Relative abundance of the variety: Propagation by the natural and humans. There is a medium taste. Normal yield. Propagation is easy.</td>
</tr>
<tr>
<td>4.</td>
<td>Flowering season: December - February</td>
</tr>
<tr>
<td>5.</td>
<td>Fruiting season: February - June</td>
</tr>
<tr>
<td>6.</td>
<td>Productivity estimate: 70 kg./tree, 1,750 kg./rai/season</td>
</tr>
</tbody>
</table>
| 7.  | Farmer descriptor:  
- Leaves: light green, short leaf  
- Flower: short peduncle  
- Fruit: medium size fruit, grey-green colour |
| 8.  | Uses and key traits & characteristics:  
- Fruits: snack  
- Leaves: ingredient in food (Thai salad, side dishes)  
- Woods: firewood |
| 9.  | Market traits:  
- Good taste for eaten fresh |
| 10. | What conservation actions or related good practises are done (an image based if possible)  
Farmers propagate for cultivation in their area |
| 11. | Description of location where tree found:  
Mae O Nai, Amphoe Chiang Dao |
| 12. | Latitude, Longitude: N 19° 17.648’ |
| 13. | Farmers name + photo; who is owner of tree(s) |
| 14. | Comments: - |
**Mamuang Raet**

1. Botanical name: *Mangifera indica* L.  
2. Meaning of local name: organ of rhinoceros  
3. Relative abundance of the variety: -  
4. Flowering season: December - February  
5. Fruiting season: February - June  
6. Productivity estimate: 50 kg./tree, 1,250 kg./rai/season  
7. Farmer descriptor:  
   - Leaves: deep green colour, small leave, acuminate leave  
   - Flower: yellow colour, long peduncle  
   - Fruits: size fruits similar as fist  
8. Uses and key traits & characteristics:  
   - Fruits: snack  
   - Leaves: ingredient in food (Thai salad, side dishes)  
   - Woods: firewood  
9. Market traits:  
   - Soury, suitable for eaten **fresh w**/sweet sauce  
10. What conservation actions or related good practises are done (an image based if possible)  
    Farmers propagate for cultivation in their area  
11. Description of location where tree found:  
    Home garden  
12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’  
13. Farmers name + photo; who is owner of tree(s)  

Mr. Suradet Tapuan (Farmer)

14. Comments:
**Mamuang Ngam Mueang Ya, Mamuang Nuan Kham**

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: City of origin
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree
7. Farmer descriptor:
   - Leave: deep green colour, small leave
   - Flower: yellow-white colour, long peduncle
8. Uses and key traits & characteristics:
   - Fruits: pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Extra size, good taste for eaten fresh
10. What conservation actions or related good practises are done (an image based if possible)
    Propagation by grafting
11. Description of location where tree found:
    North, north-east and middle part of Thailand
12. Latitude, Longitude:
    N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree(s)
    Mr. Suradet Tapuan (Farmer)
14. Comments: - Recommended by the Royal Project Foundation
Mamuang Man Khun Sri

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: -
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree, 750 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green colour, small leave
   - Flower: yellow-white colour, long peduncle
8. Uses and key traits & characteristics:
   - Fruits: snack
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Good taste, aromatic and big fruit
10. What conservation actions or related good practises are done (an image based if possible)
    Propagation by grafting
11. Description of location where tree found
    (North, north-east and middle part of Thailand.)
12. Latitude, Longitude: N 19° 17.344', E 099° 01.764'
13. Farmers name + photo; who is owner of tree(s)

   Mr. Suradet Tapuan (Farmer)

14. Comments: -
Mamuang Maha Chanok

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: -
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree, 750 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green colour, small leaf
   - Flower: yellow-white colour, long peduncle
8. Uses and key traits & characteristics:
   - Fruits: snack
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
   the fruit shape is elongated and the colour turns
   from green to yellowish-orange when ripen
9. Market traits:
   delicious taste, sweet aroma, and rich in
   nutrition value
10. What conservation actions or related good practices are done (an image based if possible)
    Propagation by grafting and budding
11. Description of location where tree found:
    Highland in Northern Region of Thailand
12. Latitude, Longitude: N 19°17.344', E 099°01.764'
13. Farmers name + photo; who is owner of tree(s)

Mr. Suradet Tapuan (Farmer)
14. Comments:
   It is moderately resistant to anthracnose disease
<table>
<thead>
<tr>
<th>Botanical name: <em>Mangifera indica</em> L.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meaning of local name: Thunder storm</td>
</tr>
<tr>
<td>Relative abundance of the variety: -</td>
</tr>
<tr>
<td>Flowering season: December - February</td>
</tr>
<tr>
<td>Fruiting season: February - June</td>
</tr>
<tr>
<td>Productivity estimate: 30 kg./tree, 750 kg./rai/season</td>
</tr>
<tr>
<td>Farmer descriptor:</td>
</tr>
<tr>
<td>- Flower: white colour, short peduncle</td>
</tr>
<tr>
<td>- Fruit: big fruit, sharp bottom</td>
</tr>
<tr>
<td>Uses and key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Fruits: snack</td>
</tr>
<tr>
<td>- Leaves: ingredient in food (Thai salad, side dishes)</td>
</tr>
<tr>
<td>Market traits:</td>
</tr>
<tr>
<td>Less fiber / less sweet / good for eaten fresh</td>
</tr>
<tr>
<td>What conservation actions or related good practises are done (an image based if possible)</td>
</tr>
<tr>
<td>Propagation by grafting and budding</td>
</tr>
<tr>
<td>Description of location where tree found:</td>
</tr>
<tr>
<td>Home garden</td>
</tr>
<tr>
<td>Farmers name + photo; who is owner of tree(s)</td>
</tr>
<tr>
<td>Mr. Suradet Tapuan (Farmer)</td>
</tr>
<tr>
<td>Comments: -</td>
</tr>
</tbody>
</table>
Mamuang Phimsen Man

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: A kind of herb
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 80 kg./tree, 2,000 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green colour, big leaf
   - Flower: yellow-white colour, long peduncle
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
   - Ripe fruit odor is similar to the smell of a Mahashanok mango
   - Twice bearing per year, dense fruit.
9. Market traits:
   - Sour and crispy and sweet
10. What conservation actions or related good practices are done (an image based if possible)
    Propagation by grafting and budding
11. Description of location where tree found:
    Mae O Nai Chiangmai Thailand.
12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree(s)

Mr. Suradet Tapuan (Farmer)

14. Comments:-
Mamuang Pom

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: round-shaped
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 100 kg./tree /season
7. Farmer descriptor:
   - Leaves: deep green colour, small leave
   - Flower: yellow-red colour, short peduncle
   - Fruit: small and round fruit,
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Good for side dish
10. What conservation actions or related good practises are done (an image based if possible)
    Propagation by grafting
11. Description of location where tree found:
    Mae O Nai Chiangmai Thailand.
12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree(s)

![Tree](image)

Mr. Suradet Tapuan (Farmer)

14. Comments: -
### Mamuang Namdokmai Si Thong

1. **Botanical name:** *Mangifera indica* L.
2. **Meaning of local name:** Golden color
3. **Relative abundance of the variety:** -
4. **Flowering season:** December - February
5. **Fruiting season:** February - June
6. **Productivity estimate:**
   - 30 kg./tree, 750 kg./rai/season
7. **Farmer descriptor:**
   - Leaves: deep green colour, acuminate leave
   - Flower: deep yellow colour, long peduncle
   - Fruit: big, scented
8. **Uses and key traits & characteristics:**
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. **Market traits**
   - Delicious taste, attractive golden color, rich in nutrition
10. **What conservation actions or related good practises are done.**
    - Grafting, many private nursery supply saplings
11. **Description of location where tree found:**
    - Ban Mae O Nai community
    - Commercial and semi-commercial fruit orchard, Home garden
12. **Latitude, Longitude:**
    - N 19° 17.344’, E 099° 01.764’
13. **Farmers name + photo; who is owner of tree(s)**

Mr. Suradet Tapuan (Farmer)

14. **Comments:**
    - Export to European markets, U.S.A., New Zealand, People's Republic of China
<table>
<thead>
<tr>
<th><strong>Mamuang Namdokmai Mun</strong></th>
<th><img src="image1.png" alt="Tree" /> <img src="image2.png" alt="Inflorescence" /> <img src="image3.png" alt="Inflorescence" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Botanical name: <em>Mangifera indica</em> L.</td>
<td><img src="image4.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>2. Meaning of local name: nutty taste (mun)</td>
<td><img src="image5.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>3. Relative abundance of the variety: -</td>
<td><img src="image6.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>4. Flowering season: December - February</td>
<td><img src="image7.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>5. Fruiting season: February - June</td>
<td><img src="image8.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>6. Productivity estimate: 30 kg./tree, 750 kg./rai/season</td>
<td><img src="image9.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>7. Farmer descriptor: - Leaves: deep green colour, small leaves - Flower: yellow-white colour, long peduncle</td>
<td><img src="image10.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>8. Uses and key traits &amp; characteristics: - Fruits: snack, pickle, conserve, jam, candy - Leaves: ingredient in food (Thai salad, side dishes) - Woods: firewood</td>
<td><img src="image11.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>9. Market traits: big fruit size; good taste</td>
<td><img src="image12.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>10. What conservation actions or related good practises are done (an image based if possible) Grafting by farmers or enterprise</td>
<td><img src="image13.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>11. Description of location where tree found: Home garden, commercial and semi-commercial fruit orchards</td>
<td><img src="image14.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’</td>
<td><img src="image15.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>13. Farmers name + photo; who is owner of tree(s)</td>
<td><img src="image16.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>Mr. Suradet Tapuan (Farmer)</td>
<td><img src="image17.png" alt="Inflorescence" /></td>
</tr>
<tr>
<td>14. Comments: -</td>
<td><img src="image18.png" alt="Inflorescence" /></td>
</tr>
</tbody>
</table>
Mamuang Namdokmai Ber 4

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: -
3. Relative abundance of the variety:
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate:
   - 60 kg./tree, 1,500 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green colour, small leaves, long and slender leaves
   - Flower: yellow colour, long peduncle
   - Fruits: fruits are similar as fist
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Good taste
10. What conservation actions or related good practices are done (an image based if possible)
    - By farmers or enterprises
11. Description of location where tree found:
    - Ban Mae O Nai community
12. Latitude, Longitude: N 19° 17.344', E 099° 01.764'
13. Farmers name + photo; who is owner of tree(s)

Mr. Suradet Tapuan (Farmer)

14. Comments: -
Mamuang Talap Nak

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: - small gold alloy rounded box
3. Relative abundance of the variety: -
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree, 750 kg./rai/season
7. Farmer descriptor:
   - Leave: green color, slender leaves
   - Flower: white color
   - Fruit: big fruit, sharp bottom
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Attractive fruit shape and color
10. What conservation actions or related good practises are done (an image based if possible)
    - Side grafted
11. Description of location where tree found:
    - Ban Mae O Nai community
12. Latitude, Longitude:
    - N 19° 17.344', E 099° 01.764'
13. Farmers name + photo; who is owner of tree(s)

Mr. Suradet Tapuan (Farmer)

14. Comments: -
<table>
<thead>
<tr>
<th><strong>Mamuang Chok Anan</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Botanical name: <em>Mangifera indica</em> L.</td>
</tr>
<tr>
<td>2. Meaning of local name: Infinite Lucky</td>
</tr>
<tr>
<td>3. Relative abundance of the variety: -</td>
</tr>
<tr>
<td>4. Flowering season: December - February</td>
</tr>
<tr>
<td>5. Fruiting season: February - June</td>
</tr>
<tr>
<td>6. Productivity estimate: 300 kg./tree, 7,500 kg./rai/season</td>
</tr>
<tr>
<td>7. Farmer descriptor:</td>
</tr>
<tr>
<td>- Leaves: green colour, short leave but width</td>
</tr>
<tr>
<td>- Flower: yellow-white colour, yellow peduncle</td>
</tr>
<tr>
<td>- Fruit: big, rounded, green-yellow colour</td>
</tr>
<tr>
<td>8. Uses and key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Fruits: snack, pickle, conserve, jam, candy</td>
</tr>
<tr>
<td>- Leaves: ingredient in food (Thai salad, side dishes)</td>
</tr>
<tr>
<td>- Woods: firewood</td>
</tr>
<tr>
<td>9. Market traits:</td>
</tr>
<tr>
<td>- Good for side dish, preserved mango</td>
</tr>
<tr>
<td>10. What conservation actions or related good practises are done (an image based if possible)</td>
</tr>
<tr>
<td>- grafting</td>
</tr>
<tr>
<td>11. Description of location where tree found:</td>
</tr>
<tr>
<td>- Ban Mae O Nai community</td>
</tr>
<tr>
<td>12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’</td>
</tr>
<tr>
<td>13. Farmers name + photo; who is owner of tree(s)</td>
</tr>
</tbody>
</table>

Mr. Suradet Tapuan (Farmer)

14. Comments: -
Mamuang Khiaosawoei

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: green royal fruit
3. Relative abundance of the variety: High abundance
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree, 750 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green colour, sharp blade
   - Flowers: deep yellow colour, long peduncle, red peduncle
   - Fruits: size fruits similar as fist but smaller than Mango Man Khun Si
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - nutty taste and crispy for eaten fresh
10. What conservation actions or related good practises are done (an image based if possible)
    - Grafting, topping and budding
11. Description of location where tree found:
    - Ban Mae O Nai community
12. Latitude, Longitude:
    - N 19° 17.344', E 099° 01.764'
13. Farmers name + photo; who is owner of tree(s)

Mr. Suradet Tapuan (Farmer)

14. Comments: -
Mamuang Kaeo

1. Botanical name: *Mangifera indica* L.
2. Meaning of local name: Crystal glass
3. Relative abundance of the variety: Many tree in many area in Thailand.
4. Flowering season: December - February
5. Fruiting season: February - June
6. Productivity estimate: 30 kg./tree, 750 kg./rai/season
7. Farmer descriptor:
   - Leaves: deep green leave, Slender leaves
   - Flower: deep yellow flower, the peduncle is long and have yellow colour
   - Fruits: size fruits similar as fist
8. Uses and key traits & characteristics:
   - Fruits: snack, pickle, conserve, jam, candy
   - Leaves: ingredient in food (Thai salad, side dishes)
   - Woods: firewood
9. Market traits:
   - Good for industrial mango production
10. What conservation actions or related good practises are done (an image based if possible)
    - Grafting, budding
11. Description of location where tree found:
    - Agriculture community garden, Ban Mae O Nai, Amphoe Chiang Dao, Chiang Mai
12. Latitude, Longitude: N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree

Mr. Suradet Tapuan (Farmer)

14. Comments: -
Si Sa Ket
Citrus spp.
**Ma-nao Tahiti**

1. Ma-nao Tahiti (*Citrus aurantifolia* cv. ‘Tahiti’)
2. Meaning of local name: introduced from Tahiti
3. Relative abundance: few trees, few households
4. Flowering: May - August
5. Harvesting: September – January
6. Productivity estimate: 500-1,000 fruits/plant
7. Farmer descriptors:
   - Canopy: semi-circular
   - Leaves: Leaf shape is oval and green color
   - Flower: White flowers and aromatic.
   - Fruit: Fruit shape are round-oval, diameter is 5 cm.
     - Fruit length is 5.5 cm, thickness of peel is 0.3 cm.
     - Raw fruits are green, ripe fruits are yellowish green.
8. Uses:
   - Leaf: as a seasoning
   - Fruit: juice, pickled
   - Wood: as firewood
9. Key traits & characteristics:
   - Big fruit, seedless, good odor,
   - Thickness of peel withstand transportation damage
10. Good practises or conservation action:
    - Propagation: air-layering/cutting
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude:
    - N 15.27858', 103.9974', E, 136 M
13. Farmers name + photo; who is owner of tree(s):
    - Mr. Put Sura
14. Comments:
**Ma-nao Pan**

1. Ma-nao Pan (*Citrus aurantifolia* cv. ‘Pan’)
2. Meaning of local name: oblate in shape
3. Relative abundance:
   More than 30 trees/village.
4. Flowering: May to August.
5. Harvesting: September to January
6. Productivity estimate: 500 - 1000 fruit/tree
7. Farmer descriptors:
   - Canopy: High = 3 meters disorder of branching. The branches are thorny.
   - Leaves: Dark green color leaves have stipule.
   - Flower: Flowering are a group of 5 - 10 flowers at new branches.
   - Fruit: Fruit shape is round-flat diameter is 5-6 cm. high is 4-5 cm. thickness of peel is 0.2 cm. Number locule /carpel of fruit is 10-13 carpel/fruit
8. Uses:
   - Leaf: ingredient in food (Thai salad, side dishes)
   - Fruit: used to accent the flavours of foods and beverages, juice
   - Wood: firewood
9. Key traits & characteristics:
   - Juicy pulp, antioxidant benefits, antibiotic properties, aromatic
10. Good practises or conservation action:
    - Propagation by air-layering, cutting
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude:
    N 15.061598, 104.030784’, E 134’ M
13. Farmers name + photo; who is owner of tree(s)
    Mr.Khomson Chuethong

**Comments:** compact of juice sac/ high lemonade very sour taste good aroma / susceptible to canker disease
Ma- nao Khai

1. Ma- nao Khai (*Citrus aurantifolia* cv. ‘Khai’)
2. Meaning of local name:
   - Fruit shape is similar to an egg of duck
3. Relative abundance: 30 trees/village
4. Flowering season: August to September
5. Fruiting season: January to May
6. Productivity estimate: 500 - 1000 fruits/tree
7. Farmer descriptors:
   - **Canopy**: 2-4 meters in height
   - **Leaves**: dark green upper leaf, light green lower leaf
   - **Flower**: emerge at leaf axillary, white at tip, aromatic
   - **Fruit**: round shape, fine pulp, thin rind, less of seeds or seedless
8. Uses and key traits & characteristics: Utilization
   - Leaf: ingredient in food (Thai salad, side dishes)
   - Fruit: Cook
   - Wood: firewood
9. Market traits:
   - high juice content, thin rind
10. What conservation actions or related good practises are done (an image based if possible)
    - Propagation: air-layering/ cutting/ clef grafting
11. Description of location where tree found:
    - 150 / 1 FangThon Huai TahapThan Sisaket
    - In home garden
12. Latitude, Longitude:
    - N 15.061598, 104.030784°, E 134° M
13. Farmers name + photo; who is owner of tree(s)

Mr.Khomson Chuethong

14. Comments:
   - good for home consumption and for sale in local market
**Makrut**

1. Makrut (*Citrus hystrix*)
2. Meaning of local name:
   - Round of fruit peel of fruit is rough gnarled
3. Relative abundance of the variety: >10 trees/village
4. Flowering season: August to September
5. Fruiting season: January to May.
6. Productivity estimate: 100-200 fruits/tree
7. Farmer descriptor:
   - Canopy: It is a perennial shrub slender small.
     The trunk and branches have long spines.
   - Leaves: leaves arranged alternately. Oval shaped leaves with two leaves together, leaf width is 2.5-4 cm. leaf length is 4-7 cm.
     Green leaf color, leaf surface is smooth, it is quite thick.
     Very fragrant because of oil gland.
   - Flower: Flowering are a group of 5 - 10 flowers, petal is white color, anther is yellow color and aroma but flower is easy to fall.
     Fruit is dark green color like lime cortical, surface is roughness.
     The terminal end of the stick head.
   - Fruit: peel of fruit is rough gnarled, the surface of peel has oil glands scattered, a lot of seed per fruit.
8. Uses and key traits & characteristics: Utilization
   - Leaf: A mixture of spices, herbs.
   - Fruit: shampoo and dishwashing liquid
   - Wood: Make the handle of a knife
9. Market traits:
   - good use with regularity in a wide array of favorite Thai dishes
10. What conservation actions or related good practises are done
    - Propagation: air-layering/ seeding/ cutting
11. Description of location where tree found:
    - 120/1 Huai ThapThan, Sisaket
    - in home garden
12. Latitude, Longitude:
    - N 15.053558, 104.025216’, E 13 M
13. Farmers name + photo; who is owner of tree(s)
    Mr.Soun Pongsura
14. Comments:
    - Fruit and leaf are strong smell because of oil gland
**Som-O Thong Di**

1. Som-O Thong Di (*Citrus maxima* ‘Som-O Thong Di’)
2. Meaning of local name: Golden fruit
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December - February
5. Fruiting season: August-September
6. Productivity estimate: 30-60 fruit/tree
7. Farmer descriptor:
   - Canopy: A small tree branching of the canopy
     - Thorny stems are brown color
     - Height of canopy is about 8 feet.
   - Leaves: The leaves are thick and dark green
     - Base of leaf has stipule.
     - The leaves resemble two leaves together
   - Flower: Single flower at prong leaves area.
     - The flower is white color petal number is 4
     - Number of anther is 20-25.
   - Fruit: Fruit size are medium round-flat shape
     - Length of fruit is 12 cm. The smooth of fruit peel
     - Fine of oil gland, thin of peel is about 1 cm.
     - Number of carpel is 14-16 per fruit
     - Pale pink color.
8. Uses and key traits & characteristics: Utilization
   - Leaf: Herbal cure for flatulence, relieve headaches.
   - Fruit: Salad, jam, Peel of fruit for compote.
9. Market traits:
   - Good taste, good flavor
10. What conservation actions or related good practices are done
    - Propagation: layering/budding/grafting/seeds
11. Description of location where trees found:
    - 120/1 Huai TahapThan Sisaket
    - In home garden
12. Latitude, Longitude:
    - N 15.053558, 104.025216’, E 13 M
13. Farmers name + photo; who is owner of tree(s)

Mr. Soun Pongsura

14. Comments: High sweet/juice sac is pink color/ resistant to plat disease.
Som-O Khao-Namphueng

1. Som-O Khao-Namphueng
   (Citrus maxima ‘Som-O Khao-Namphueng’)
2. Meaning of local name : honey white pulp
3. Relative abundance of the variety : > 3 trees/village
4. Flowering season : December - January
5. Fruiting season : August-September
6. Productivity estimate : 30-40 fruits/tree
7. Farmer descriptor :
   - Tree : small canopy, light green to brown trunk, smooth bark, thorny
   - Leaves : thick, dark green upper leaf, light green lower leaf, aromatic
   - Flower : 4-5 white petals, white anther filament, light green stigma
   - Fruit : large round fruit, thick rind, brown-yellow pulp
8. Uses and key traits & characteristics : Utilization
   - leaves : medicinal use for relieving headache and stomach disorder
   - fruit : pulp for local dishes, preserved sweetened rind
   - wood : firewood
9. Market traits :
   - sweet, delicate pulp, aromatic
10. What conservation actions or related good practises are done
    - Propagation : layering/ budding/ grafting/ seeds
11. Description of location where tree found :
    - house no. 2, Mu 3, Nong hu village, I Se, Pho Sri Suwan district, Si Sa Ket
    - In home garden
12. Latitude, Longitude :
    - N 15.27858’, 103.9974’, E
13. Farmers name + photo; who is owner of tree(s)

Mrs. Thong ChaiChangWang

14. Comments :
    - very sweet/ juice sac is pale yellow resistant to plant disease.
**Som-Khima**

1. Som-Khima (*Citrus* sp.)
2. Meaning of local name: Fruit shape like feces of horse
3. Relative abundance of the variety: < 5 trees/village
4. Flowering season: January - February
5. Fruiting season: October - December
6. Productivity estimate: 20-50 fruits/tree
7. Farmer descriptor:
   - Canopy: Round
   - Leaves: The compound leaves are arranged alternately apex pointed, thick leaf, dark green color
   - Flower: simple flower, flowering at prong of leaf and terminal of branch petal is white color and aromatic.
   - Fruit: Fruit shape is round
8. Uses and key traits & characteristics: Utilization
   - **Canopy**: 3-5 m in height
   - **Leaves**: alternately arranged evergreen leaves, with spiny shoots
   - **Flower**: elongating shoot is transformed into a terminal inflorescence flowers are also produced directly in leaf axils of previous flushes
   - **Fruit**: round shape, rind texture slightly rough, aromatic
9. Market traits:
   - aromatic, blend of sweet and sour taste
10. What conservation actions or related good practises are done (an image based if possible)
    - Propagation: air-layering /grafting /seed
11. Description of location where tree found:
    - 128 /1 Huai TahapThan Sisaket
    - In home garden
12. Latitude, Longitude:
    - N 15.058.749, 104.035848’, E , 139 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mr. Jan SamDangPhai
14. Comments:
    - Leaf are scattered throughout the essential oil gland Ripe fruit is blend of sweet and sour taste
**Som khieo wan**

1. Som khieo wan (*Citrus reticulata*)
2. Meaning of local name : ripe fruit is still green to yellow green but sweet in taste
3. Relative abundance of the variety : 1 tree/village
4. Flowering season : All year round
5. Fruiting season : All year round harvesting, high productivity around September - February.
6. Productivity estimate : 50-100 fruits/tree
7. Farmer descriptor :
   - Canopy : Height of canopy is 2-8 m and compact
   - Leaves : Simple leaf is long oval shape. The ventral side (upper side) of leaf is dark-green color. Dorsal (lower slide) of leaf is pale-green, smooth of lamina and scattered of essential oil gland.
   - Flower : The Perfect of flower white color number of sepal, petal is 5 and scattered of essential oil gland. Flowering at terminal new branch.
   - Fruit : Round of fruit wind is 7.5 cm. Length of fruit is 5.9 cm, smooth of peel and thickness of calyx is 0.2-0.3 cm, easy to peel, scattered of essential oil gland. Ripe fruit is yellowish green
8. Uses and key traits & characteristics : Utilization
   - Leaf : ingredient in food (Thai salad, side dishes)
   - Fruit : edible fruit, Jam, dessert, Juice
   - Wood : firewood
9. Market traits :
   - sweet to very sweet in taste, good flavor
10. What conservation actions or related good practises are done (an image based if possible)
   - Propagation: seed/ budding/ grafting/air-layering
11. Description of location where tree found :
   - 120/1 Huai Tahap Than, Sisaket
   - In home garden
12. Latitude, Longitude :
   - N 15.053558, 104.025216°, E 130 M
13. Farmers name + photo; who is owner of tree(s)
   - Mr. Soun Pongsura
Garcinia spp.
Madan-Ban

1. Madan-Ban (*Garcinia schomburgkiana*)
2. Meaning of local name: generally found at home (the meaning of Ban is home)
3. Relative abundance of the variety: 20 plants/village (Madan-Ban is not the native plant, introduced variety)
4. Flowering season: all year
5. Fruiting season: all year
6. Productivity estimate: 300 fruits/plant/season
7. Farmer descriptor:
   - Canopy: round shape, 3-7 meters in height
   - Leave: single leave, opposite decussate, leave shape is oblong (2-3 centimeters in width, 5-8 cm in length), sour taste
   - Flower: inflorescence flower, dioecious and perfect plant, 5 petals, 5 sepals calyx attached to the fruit until ripe
   - Fruit: oblong shape, smooth and slick skin, green peel colour, sour taste, 3-6 seeds (shuttle shape, black colour)
8. Uses and key traits & characteristics:
   - Leave: side dishes, ingredient in food (spicy lemongrass soup, spicy Thai-style salad)
   - Fruit: conserved fruit (pickle, preserved in sirup), ingredient in chili sauce
   - Wood: building, firewood
9. Market traits:
   - Slightly sour taste, crispy pulp
10. What conservation actions or related good practices are done:
    - Propagation by seeds
11. Description of location where tree found:
    - 18 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - N 15.061411°, 104.029623°, E 132 M
13. Farmers name + photo; who is owner of tree(s)
    - Ms. Phimphon Nonthawong
14. Comments: thrives well in moist loamy soil, low land area, able to flower all year round if enough water is provided.
**Madan-Pa**

1. Madan-Pa (*Garcinia* sp.)
2. Meaning of local name: generally found in the forest (the meaning in English of Pa is forest)
3. Relative abundance of the variety: many plants in forest, few in home garden
4. Flowering season: May - June, December - January
5. Fruiting season: August - October, April – June
6. Productivity estimate: 300 fruits/plant/season
7. Farmer descriptor:
   - Leave: single leaf, opposite decussate, leave shape is oblong (2 cm in width, 10-12 cm in length), having yellow gum, sour taste
   - Flower: inflorescence, dioecious and perfect plant, 5 petals, 5 sepals
   - Fruit: oblong shape, smooth skin, green peel colour, sour taste, 5-7 seeds (shuttle shape, black colour)
8. Uses and key traits & characteristics:
   - Leave: side dishes, ingredient in food (spicy lemongrass soup, spicy Thai-style salad)
   - Fruit: ingredient in chili sauce
   - Wood: building, firewood, grilled chicken stick
9. Market traits:
   - young leave and mature fruit used for consumption in HH
10. What conservation actions or related good practises are done:
    - propagation by seeds
11. Description of location where tree found:
    - 2 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - along natural creeks
12. Latitude, Longitude:
    - N 15.056138’, 104.024121’, E, 132 M
13. Farmers name + photo; who is owner of tree(s)
    Mrs. Sangwan Soison
14. Comments:
    - It is found growing wild in lowland and swampy areas of the evergreen forests, trees grow along natural creeks can help protect soil erosion very well
### Chamuang, Sommong

1. Chamuang, Sommong (*Garcinia cowa*)
2. Meaning of local name:
   - the meaning in English of Sommong is sour taste
3. Relative abundance of the variety: 10 plants/village
4. Flowering season: May - June, December - January
5. Fruiting season: August - October, April - June
6. Productivity estimate: 300-400 fruits/plant/season
7. Farmer descriptor:
   - Canopy: cylinder shape, 10-15 meters in height
   - Leave: single leave, leaf arrangement is opposite, 2-4 cm in width, 10-15 cm in length, leave is thick, blade is wax, gum is yellow colour, sour taste
   - Flower: inflorescence, dioecious and perfect plant, 5 petals, 5 sepals
   - Fruit: oblong shape, smooth skin, green peel colour (unripe), gum is yellow colour, yellow peel colour (ripen), sour taste, 4-6 seeds (round shape)
8. Uses and key traits & characteristics:
   - Leave: ingredient in food (Thai curry with pork and chamuang leaf, sour soup with tamarind paste (Kaeng som))
   - Fruit: eaten fresh (ripen), juice, sour taste, aroma
   - Wood: building, bark used dye
9. Market traits:
   - young leave and mature fruit used for consumption in HH
10. What conservation actions or related good practises are done:
    - propagation by seeds
11. Description of location where tree found:
    - 187/4 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In the wild
12. Latitude, Longitude:
    - N 15.051755, 104.019551', E, 130 M
13. Farmers name + photo; who is owner of tree(s)

   Mr. Liam Linlathai

14. Comments:
    - Tolerant to long duration of drought and flooding condition
Kouk, Som Kouk

1. Kouk (*Garcinia* sp.)
2. Meaning of local name:
   - the meaning in English of Som Kouk is sour taste
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: May - June, December - January
5. Fruiting season: August - October, April - June
6. Productivity estimate: 200-300 fruits/plant/season
7. Farmer descriptor:
   - Canopy: cylinder shape, 10-15 meters in height
   - Leave: single leave, leaf arrangement is opposite, 5-6 cm in width, 10-15 cm in length, leave is thick, blade is wax, gum is yellow colour, sour taste
   - Flower: inflorescence, dioecious and perfect plant, 5 petals, 5 sepals
   - Fruit: round shape, green peel colour (unripe), gum is yellow colour, yellow peel colour (ripen), sour taste, 4-6 seeds (round shape)
8. Uses and key traits & characteristics:
   - Leave: ingredient in food, side dishes
   - Fruit: juice is ingredient in food, eaten fresh (ripen), juice, sour taste, aroma
   - Wood: building, firewood
9. Market traits: not for sale
10. What conservation actions or related good practises are done:
    - propagation by seeds
11. Description of location where tree found:
    - In public ground, Nong Sim Yai, Huai Thap Than subdistrict, Si Sa Ket
12. Latitude, Longitude:
    - N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree(s):
    - no owner
14. Comments:
    - Should be protected and maintained as a natural Resources of biodiversity
Mang Khut

1. Mang Khut (*Garcinia mangostana*)
2. Meaning of local name:
3. Relative abundance of the variety: 1 plant/village
4. Flowering season: May - June
5. Fruiting season: July - September
6. Productivity estimate: no yield, immature
7. Farmer descriptor:
   - Canopy: 10-15 meters in height
   - Leave: single leave, leave shape is ovate or oblong, 6-11 centimetres in width,
     15-25 centimetres in length, leave is thick
   - Flower: single flower, dioecious and perfect plant, red colour petal, green colour sepal
   - Fruit: peel is thick and hard, yellow peel colour (ripen), gum is yellow colour, 3-5 centimeters in diameter, pulp is juicy,
8. Uses and key traits & characteristics:
   - Leave: dye
   - Fruit: eaten fresh, jam
   - Wood: building, furniture, firewood
9. Market traits:
   - commercial plant
10. What conservation actions or related good practises are done:
    - propagation by seeds, shoot grafting, grafting
11. Description of location where tree found:
    - 120, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - 15.056692 N, 104.023436 E / Alt: 133 m.
13. Farmers name + photo; who is owner of tree(s)
    Mr. Montri Chombun
14. Comments: pulp is white, juicy, sour and sweet taste
Pha-wa

1. Pha-wa (Garcinia speciosa)
2. Meaning of local name:
3. Relative abundance of the variety: 5 plants/village
4. Flowering season: January - March, July - December
5. Fruiting season: March - May, August - February
6. Productivity estimate: 500-1000 fruits/tree
7. Farmer descriptor:
   - Canopy: dome shape, 15-20 meters in height
   - Leaves: single leave, leave arrangement is opposite, 4-8 centimetres in width, 8-15 centimetres in length, leave shape is obovate, leave apex is rounded, blade is thick and wax, gum is white colour
   - Flower: single flower, dioecious and perfect plant, petal and sepal is yellow colour
   - Fruit: round shape, rough skin, green colour (young), pink to red colour (ripen)
8. Uses and key traits & characteristics:
   - Leave: medicinal herbs (laxative)
   - Fruit: eaten fresh
   - Wood: building, furniture, firewood
9. Market traits: not for sale
10. What conservation actions or related good practises are done:
    - propagation by seeds
11. Description of location where tree found:
    - 3 Moo 3, Ban Nong Hu, Tambon I Se, Amphoe Pho Si Suwan, Si Sa Ket
12. Latitude, Longitude:
    - N 15.279116, 103.997525', E, 126 M
13. Farmers name + photo; who is owner of tree(s)
   Mrs. Sun Dokchan
14. Comments: ripe fruit causing sickness and dizziness
Mangifera spp.
Mamuang Krasuay

1. Mamuang Krasuay (Mangifera indica ‘Krasuay’)
2. Meaning of local name: Shaped like a shuttle loom (the meaning in English of krasuay is shuttle)
3. Relative abundance of the variety: 20 plant/village
4. Flowering season: December-January
5. Fruiting season: February-May
6. Productivity estimate: 300 fruits/plant
7. Farmer descriptor:
   - canopy: semi-circular
   - Leaves: 25 centimetres in length, leaf shape is elliptic, leaf base is acute, leaf apex is acuminate, leaf blade is flat, leaf margin is undulate
   - Fruit: oblong shape, 10 centimeters in diameter
8. Uses and key traits & characteristics:
   - Leaves: young leaves (spicy Thai-style salad, side dishes)
   - Fruit: unripe fruit (spicy Thai-style salad), ripe fruit (eaten fresh, jam)
   - Wood: used in production of furniture and charcoal
9. Market traits:
   - consumption in HHs, sell in community’s market
10. What conservation actions or related good practices are done (an image based if possible)
    - propagation by seeds
11. Description of location where tree found:
    - 18 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - 15.061411 N, 104.029623 E / Alt: 132 m.
13) Farmers name + photo; who is owner of tree(s)
    - Ms. Phimphon Nonthawong
14) Comments:
    - a lot of flower, high yield per plant, disease and insect tolerance, drought tolerance
Mamuang Kluay

1. Mamuang Kluay (*Mangifera indica* ‘Kluay’)
2. Meaning of local name: Ripe fruit smell like banana
   (the meaning in English of Kluay is banana)
3. Relative abundance of the variety: 5 plants/village
4. Flowering season: December - January
5. Fruiting season: March - May
6. Productivity estimate: 300 fruits/plant
7. Farmer descriptor:
   - Canopy: oblong
   - Leaves: 19 centimetres in length, leaf shape is elliptic, leaf base is acute, leaf apex is acuminate, leaf blade is flat, leaf margin is undulate
   - Fruit: obovate shape, 11 centimeters in diameter
8. Uses and key traits & characteristics:
   - Fruit: sour taste (unripe), aroma (ripen), eaten fresh (ripen)
   - Wood: used in production of charcoal
9. Market traits:
   - for consumption in HH and for sale in local market
10. What conservation actions or related good practises are done:
    - propagation by seeds
11. Description of location where tree found:
    - 11 Moo 7, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - N 15.041701’, 104.039222 ‘,E, 146 M
13. Farmers name + photo; who is owner of tree(s)
    Mrs. Buasi Wongwang
14. Comments: the ripen fruit have aroma and sweet taste
Mamuang Kalon

1. Mamuang Kalon (*Mangifera indica* ‘Kalon’)
2. Meaning of local name: easy to peel (the meaning in English of Kalon is peel off)
3. Relative abundance of the variety: 150 plant/village
4. Flowering season: January - February
5. Fruiting season: February - April
6. Productivity estimate: 300 kg./tree, 7,500 kg./rai/season
7. Farmer descriptor:
   - Canopy: 15-30 meters in height, 100-300 centimetres in width
   - Leaves: leaf shape is oblong, 3.5-8 centimeters in width, 14.5-22 centimeters in length, leave base is obtuse, leave apex is apiculate, leave blade have wax
   - Flower: white to light yellow colour, inflorescence flower, 25 centimeters in length of inflorescence, peduncle have trichome, 5 petals, 5 stamens (short lengths are not equal)
   - Fruit: oblong shape, yellow-green colour in mature fruit, 3-4 centimeters in width, 4-7 centimeters in length, big seed, have aroma
8. Uses and key traits & characteristics
   - Leave: side dishes with chili sauce
   - Fruit: spicy Thai-style salad
   - Wood: used in production of furniture
9. Market traits:
   - Very sweet, aromatic
10. What conservation actions or related good practises are done (an image based if possible):
    - Propagation by seeds
11. Description of location where tree found:
    - 187/7 Moo 4, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - N 15.051755, 104.019551’, E, 130 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mr. Liam Linlathai
14. Comments: disease tolerance
Mamuang Kaemdaeng

1. Mamuang Kaemdaeng (*Mangifera indica* ‘Kaemdaeng’)
2. Meaning of local name: peel colour is red like cheek blusher  
   (the meaning in English of Kaem is cheek and the meaning in  
   English of Daeng is red)
3. Relative abundance of the variety: < 5 trees/village
4. Flowering season: December - January
5. Fruiting season: March - May
6. Productivity estimate: 300 kg./plant
7. Farmer descriptor:
   - **Tree**: medium canopy, cracked bark texture,  
     no climbing of branch
   - **Leaves**: lanceolate, acute leaf apex, obtuse leaf base,  
     undulate leaf edge
   - **Flower**: conical inflorescence
   - **Fruit**: elliptical without beak, red green rind
8. Uses and key traits & characteristics:
   - **Fruit**: eaten fresh (ripen), jam
9. Market traits:
   - attractive fruit color, aromatic, sour and sweet taste
10. What conservation actions or related good practises are done  
    (an image based if possible):
    - propagation by seeds, grafting and layering
11. Description of location where tree found:
    - 11 Moo 3, Ban Nong Hu, Tambon I Se, Amphoe Pho Si Suwan,  
      Si Sa Ket
12. Latitude, Longitude:
    - N 15.27858', 103.9974', E, 136 M
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Phut Sura
14. Comments:
    - growing rapidly, tolerant to pests and diseases
Mamuang Kaeo

1. Mamuang Kaeo (*Mangifera indica* ‘Kaeo’)
2. Meaning of local name: glittering glass
3. Relative abundance of the variety: 80 trees/village
4. Flowering season: late December – mid January
5. Fruiting season: April – mid May
6. Productivity estimate: 500 fruits/tree
7. Farmer descriptor:
   - Canopy: globose shape
   - Flower: inflorescence flower, monoecious plant
   - Fruit: fruit is small to medium size, 200-300 grams/fruit, round shape, thin peel about 0.12 centimetres, sticky pulp
8. Uses and key traits & characteristics:
   - Leave: side dishes
   - Fruit: pickle (unripe), eaten fresh, jam (ripen)
9. Market traits:
   - Fine pulp texture which is good for processing into pickled and preserved mango
10. What conservation actions or related good practices are done (an image based if possible)
    - Propagation by seeds, grafting and layering
11. Description of location where tree found:
    - 187/4 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.051755, 104.019551’, E, 130 M
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Liam Linlathai
14. Comments:
    - Good to be root stock
### Mamuang Kaeo Chuk

1. Mamuang Kaeo Chuk (*Mangifera indica* ‘Kaeo Chuk’)
2. Meaning of local name:
   - the fruit shape have caruncle
   (the meaning in English of chuk is caruncle)
3. Relative abundance of the variety : 5-10 trees/village
4. Flowering season : December - January
5. Fruiting season : January - March
6. Productivity estimate : 300-400 fruits/tree
7. Farmer descriptor :
   - Canopy : round shape, medium size
   - Leave: acuminate leave, leave base is attenuate, leave margin is undulate
   - Flower: inflorescence flower, monoecious plant
8. Uses and key traits & characteristics
   - Leave: ingredient in food (spicy Thai-style salad, side dishes)
   - Fruit: pickle (unripe), eaten fresh, jam (ripen)
   - Wood: firewood
9. Market traits :
   - fine pulp texture which is good
     for processing into pickled and preserved mango
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by seeds, grafting and layering
11. Description of location where tree found :
    - 194 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude :
    - N 15.061059’, 104.029516 E’, 139 M
13. Farmers name + photo; who is owner of tree(s)

   Mr. Sawat Phengchaem

14. Comments :
   - Plant for trade, suitable for processing, disease and insect tolerance
Mamuang Kaeo-Houchang

1. Mamuang Kaeo-Houchang (*Mangifera indica* ‘Kaeo-Houchang’)
2. Meaning of local name: resemble elephant head
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 300 kg./tree
7. Farmer descriptor:
   - **Tree:** medium canopy, cracked bark, climbing of branches
   - **Leaves:** dark green, leaf apex is acuminate, entire leaf margin, Flat leaf blade
   - **Flower:** inflorescence, green peduncle, pale red petals
   - **Fruit:** obovate fruit shape, cross section is broad elliptic
8. Uses and key traits & characteristics:
   - **Fruit:** spicy Thai-style salad, jam and eaten fresh
   - **Wood:** firewood
9. Market traits:
   - nutty texture of pulp, good for local dishes
10. What conservation actions or related good practises are done
    - (an image based if possible)
    - propagation by seeds and layering
11. Description of location where tree found:
    - 11 Moo 7, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.041701’, 104.039222 ’,E, 146 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mrs. Buasi Wongwang
14. Comments:
    - Tolerant to insect damage
Mamuang Khieo Sawoei

1. Mamuung Khieo Sawoei (*Mangifera indica* ‘Khieo Sawoei’)  
2. Meaning of local name: Fresh eaten  
3. Relative abundance of the variety: >10 trees/village  
4. Flowering season: November – February  
5. Fruiting season: March – May  
6. Productivity estimate: 200 fruits/tree  
7. Farmer descriptor:  
   - Canopy: Sparse canopy  
   - Leaves: deep green colour, acuminate leave  
   - Fruit: oblong shape, smooth skin  
8. Uses and key traits & characteristics:  
   - Fruit: eaten fresh, spicy Thai-style salad  
   - Wood: firewood  
9. Market traits:  
   - best for nutty taste from fresh eaten  
10. What conservation actions or related good practises are done (an image based if possible):  
   - propagation by grafting and layering  
11. Description of location where tree found:  
   - 150 Moo 1, Fang Thon Community,  
     Tambon Huai Thap Than,  
     Amphoe Huai Thap Than, Si Sa Ket  
   - In home garden  
12. Latitude, Longitude:  
   - N 15.061598, 104.030784', E 134' M  
13. Farmers name + photo; who is owner of tree(s)  

Mr. Khomsan Chueathong  

14. Comments: low tolerant to disease and insect
Mamuang Khai

1. Mamuang Khai (*Mangifera indica* ‘Khai’)
2. Meaning of local name: resemble to chicken egg
3. Relative abundance of the variety: <10 trees/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 300 kg./tree
7. Farmer descriptor:
   - **Canopy:** medium to large canopy
   - **Leaves:** oblong leaf, dark green, leaf apex is acuminate, entire leaf margin, flat leaf blade
   - **Flower:** white peduncle, petals are light red color but white in the middle portion
   - **Fruit:** Oval shape, light green rind, white pulp, sweet and sour. Ripe fruit is yellow gold, fine texture of pulp, aroma
8. Uses and key traits & characteristics:
   - **Leave:** ingredient in food (spicy Thai-style salad, side dishes)
   - **Fruit:** snack, pickle, conserve, jam, candy
   - **Wood:** firewood
9. Market traits:
10. What conservation actions or related good practices are done (an image based if possible):
    - propagation by seeds
11. Description of location where tree found:
    - 36 Moo 7, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.342503’, 104.038753’, E, 146 M
13. Farmers name + photo; who is owner of tree(s)

   Mrs. Banglian Chang-In
14. Comments: big tree, small size, less pulp, smelly, tolerance to disease and insect (stem borer)
Mamuang Chok Anan

1. Mamuang Chokanan (Mangifera indica ‘Chokanan’)
2. Meaning of local name : Lucky forever
3. Relative abundance of the variety : 5 tree/village
4. Flowering season : all year round
5. Fruiting season : all year round
6. Productivity estimate : 100-200 fruits/tree
7. Farmer descriptor :
   - Canopy: medium size
   - Leave: leaf shape is ovate or lanceolate, deep green colour
   - Fruit : large size, obovate fruit shape, good texture
8. Uses and key traits & characteristics :
   - Fruit: ingredient in food (spicy Thai-style salad, side dishes), eaten fresh
   - Wood: firewood
9. Market traits :
   - rank second to Mamuang Kaeo in making processed products
10. What conservation actions or related good practises are done (an image based if possible):
    - propagation by budding, grafting and layering
11. Description of location where tree found :
    - 18 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude :
    - N 15.061411’, 104.029623’, E 132 M
13. Farmers name + photo; who is owner of tree(s)
    Mrs. Phim{hon Nonthawong
14. Comments:
    - tolerant to insects and diseases
<table>
<thead>
<tr>
<th>Mamuang Thongdam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mamuang Thongdam (<em>Mangifera indica</em> ‘Thongdam’)</td>
</tr>
<tr>
<td>2. Meaning of local name:</td>
</tr>
<tr>
<td>- black golden</td>
</tr>
<tr>
<td>3. Relative abundance of the variety:</td>
</tr>
<tr>
<td>- &gt;10 trees/village</td>
</tr>
<tr>
<td>4. Flowering season: January - February</td>
</tr>
<tr>
<td>5. Fruiting season: March - May</td>
</tr>
<tr>
<td>6. Productivity estimate: 200-300 fruits/tree</td>
</tr>
<tr>
<td>7. Farmer descriptor:</td>
</tr>
<tr>
<td>- Canopy: large and dense</td>
</tr>
<tr>
<td>- Leave: acuminate leave, smooth skin, the leaves are glossy</td>
</tr>
<tr>
<td>- Fruit: 13.3 centimetres in length, oblong shape, dark green peel but golden pulp</td>
</tr>
<tr>
<td>8. Uses and key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Fruit: ingredient in food (spicy Thai-style salad, side dishes), jam, mango with sticky rice</td>
</tr>
<tr>
<td>- Wood: furniture</td>
</tr>
<tr>
<td>9. Market traits:</td>
</tr>
<tr>
<td>- good taste, attractive bright yellow pulp</td>
</tr>
<tr>
<td>10. What conservation actions or related good practises are done (an image based if possible):</td>
</tr>
<tr>
<td>- propagation by grafting, shooting grafting and layering</td>
</tr>
<tr>
<td>11. Description of location where tree found:</td>
</tr>
<tr>
<td>- 138 Moo 2, Ban Nong Sim Yai, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket</td>
</tr>
<tr>
<td>- In home garden</td>
</tr>
<tr>
<td>12. Latitude, Longitude:</td>
</tr>
<tr>
<td>- N 15.067533’, 104.040492’, E, 142 M</td>
</tr>
<tr>
<td>13. Farmers name + photo; who is owner of tree(s)</td>
</tr>
<tr>
<td>Mrs. Khamwan Chiangwong</td>
</tr>
<tr>
<td>14. Comments: sour and sweet taste, crunchy, high yield</td>
</tr>
</tbody>
</table>
**Mamuang Namdokmai**

1. Mamuang Namdokmai (*Mangifera indica* ‘Namdokmai’)
2. Meaning of local name:
3. Relative abundance of the variety: more than 10 tree/village
   - Flowering season: January - February
5. Fruiting season: March - May
6. Productivity estimate: 200-300 fruit/tree
7. Farmer descriptor:
   - Canopy: canopy is fairly small
   - Leaves: long leave, leave margin is undulate
   - Fruit: 16 centimetres in length, oblong shape, smooth skin
8. Uses and key traits & characteristics:
   - Fruit: ingredient in food (spicy Thai-style salad, side dishes),
     jam, mango with sticky rice
9. Market traits:
10. What conservation actions or related good practises are done
    (an image based if possible)
    - propagation by shoot grafting, grafting and budding
11. Description of location where tree found:
    - 2 Moo 1, Tambon Huai Thap Than,
      Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.056138’, 104.024121’, E, 132 M
13. Farmers name + photo; who is owner of tree(s)
    - Mrs. Sangwan Soison
14. Comments:
    - can be produced out of season,
    - not resistant to anthacnose disease
Mamuang Namdokmai Sithong

1. Mamuung Namdokmai Sithong (*Mangifera indica* ‘Namdokmai Sithong’)

2. Meaning of local name: Golden mango

3. Relative abundance of the variety: >5 trees/village

4. Flowering season: November - December

5. Fruiting season: March – May

6. Productivity estimate: 20-100 fruits/tree

7. Farmer descriptor:
   - Canopy: canopy is fairly small
   - Leave: long leave, leave margin is undulate
   - Fruit: oblong shape

8. Uses and key traits & characteristics:
   - Fruit: jam, mango with sticky rice, eaten fresh

9. Market traits:

10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by shoot grafting, grafting, budding and layering

11. Description of location where tree found:
   - 18 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
   - In home garden

12. Latitude, Longitude:
   - 15.061411 N, 104.029623 E / Alt: 132 m.

13. Farmers name + photo; who is owner of tree(s)

   Mrs. Phimphon Nonthawong

14. Comments: juicy, very sweet, flat seed, the optimal harvest time is at the yellow stage of peel
Mamuang-Pa

1. Mamuang-Pa (*Mangifera indica* ‘Pa’)
2. Meaning of local name: wild mango
3. Relative abundance of the variety: < 5 trees/village
4. Flowering season: January - February
5. Fruiting season: April - May
6. Productivity estimate: 300-600 fruits/tree
7. Farmer descriptor:
   - Tree: large canopy, cracked bark, brown stem
   - Leaves: oblong shape, leaf apex is acuminate, leaf base is acute
   - Flower: yellow-green inflorescence
   - Fruit: elliptical fruit, 2.5-3 cm in width, 2.5-3.5 cm in length
8. Uses and key traits & characteristics:
   - Fruit: mango with sweet fish sauce
   - Wood: making knife handle
9. Market traits:
   - wild mango, no market traits
10. What conservation actions or related good practices are done (an image based if possible)
    - propagation by seeds
11. Description of location where tree found:
    - Moo 7, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude:
    - N 15.041942’, 104.039617’, E, 145 M
13. Farmers name + photo; who is owner of tree(s)
    - none, found in the public area
14. Comments: tolerant to disease and insect
Mamuang Paa

1. Mamuang Paa (*Mangifera* sp. ‘Paa’)
2. Meaning of local name: none
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December – January
5. Fruiting season: January - March
6. Productivity estimate: 200-300 fruits/tree
7. Farmer descriptor:
   - Tree: medium canopy, cracked bark, brown color
   - Leaves: light green color, leaf apex and leaf base are attenuate, undulate leaf margin, flat leaf base
   - Flower: yellow inflorescence, aromatic
   - Fruit: elliptical fruit shape, rounded outward ventral shoulder, sloping downward dorsal shoulder
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh (ripen), ingredient in food (spicy Thai-style salad), jam
   - Wood: furniture production
9. Market traits:
   - could be local dish recipe
10. What conservation actions or related good practices are done (an image based if possible)
    - propagation by seeds
11. Description of location where tree found:
    - 11 Moo 7, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.041701', 104.039222 ',E, 146 M
13. Farmers name + photo; who is owner of tree(s)
    - Mrs. Buasi Wongwang
14. Comments:
    - Tolerant to disease and insect
Mamuang Phimsen

1. Mamuung Phimsen (*Mangifera indica* ‘Phimsen’)
2. Meaning of local name: name of one kind of herb
3. Relative abundance of the variety: < 5 tree/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 30-500 fruits/tree
7. Farmer descriptor:
   - Canopy: canopy is big and dense
   - Leave: deep green colour, leave shape is elliptical and lanceolate
   - Fruit: oblong shape, 13 centimetres in length, 7.5 centimetres in width, 6 centimetres in diameter
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh
9. Market traits:
   - aromatic, attractive pulp color,
     good taste
10. What conservation actions or related good practises are done
    - propagation by seeds and layering
11. Description of location where tree found:
    - 28/1 Moo 2, Ban Nong Sim Yai, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.068414’, 104.049876’, E, 142 M
13. Farmers name + photo; who is owner of tree(s)
   
   Mrs. Yupaphin Chiangwong

14. Comments:
    - able to be forced for off-season
Mamuang Falan

1. Mamuang Falan (*Mangifera indica* ‘Fal’an’)
2. Meaning of local name: Thunderstorm
3. Relative abundance of the variety: < 5 trees/village
4. Flowering season: January - February
5. Fruiting season: March - May
6. Productivity estimate: 400-500 fruits/tree
7. Farmer descriptor:
   - Canopy: canopy is medium
   - Leaf: leave shape is lanceolate, leave spex is acuminate
   - Fruit: oblong shape, big caruncle, sharp bottom, sinus of the fruit
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh, mango with sweet fish sauce
9. Market traits:
   - crispy pulp, good taste
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by shoot grafting, budding and layering
11. Description of location where tree found:
    - 138 Mu 2, Nong Sim Yai, Huai Thap Than subdistrict, Huai Thap Than district, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.067533’, 104.040492’, E, 142 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mrs. Khamwan Chiangwong

14. Comments: the fruit is crispy and easily cracked
**Mamuang Raet**

1. Mamuung Raet (*Mangifera indica* ‘Raet’)
2. Meaning of local name : resemble to rhino horn
3. Relative abundance of the variety : < 5 trees/village
4. Flowering season : mid December - February
5. Fruiting season : March - May
6. Productivity estimate : 200-300 fruits/tree
7. Farmer descriptor :
   - Canopy: canopy is big and dense
   - Leave: green colour, leave shape is oblanceolate or obovate
   - Fruit: round shape, having caruncle
8. Uses and key traits & characteristics :
   - Fruit: mango with sweet fish sauce, spicy Thai- style salad, mango with sticky rice
9. Market traits :
   - good texture of pulp, good for fresh and ripe eaten
10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by budding, grafting and cutting
11. Description of location where tree found :
    - 2 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
12. Latitude, Longitude :
    - N 15.056138’, 104.024121’, E, 132 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mr. Soon Dokchan

14. Comments : sour and sweet taste, flat seed, having aroma, a lot of splinter, more pulp, white and yellow colour (mature)
Mamuang Lin Nguhao

1. Mamuang Lin Nguhao (*Mangifera indica* ‘Lin Nguhao’)
2. Meaning of local name: long elliptical
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 400-500 fruits/tree
7. Farmer descriptor:
   - Canopy: medium canopy, high dense of leaves
   - Leaves: oblong shape, leaf apex is acute
   - Flower: small inflorescence
   - Fruit: long elliptical fruit shape, having beak at the fruit apex
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh, jam, mango with sticky rice
9. Market traits:
   - good taste, small stone
10. What conservation actions or related good practices are done (an image based if possible)
    - propagation by seeds, grafting and layering
11. Description of location where tree found:
    - 11 Moo 3, Ban Nong Hu, Tambon I Se, Amphoe Pho Si Suwan, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.27858’, 103.9974’, E, 136 M
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Phut Su Ra
14. Comments: sweet taste, flat seed, thick pulp, high yield
Mamuang Samruedu

1. Mamuung Samruedu (Mangifera indica ‘Samruedu’)  
2. Meaning of local name: three seasons  
3. Relative abundance of the variety: 1 tree/village  
4. Flowering season: December - January  
5. Fruiting season: January - March  
6. Productivity estimate: 400-500 fruits/tree  
7. Farmer descriptor:  
   - Canopy: medium canopy, smooth bark  
   - Leaves: light green, oblong shape, Leaf apex is acuminate  
   - Fruit: small roundish fruit,  
8. Uses and key traits & characteristics:  
   - Fruit: eaten fresh, jam  
9. Market traits:  
   - sweet taste, aromatic  
10. What conservation actions or related good practises are done (an image based if possible)  
    - propagation by seeds  
11. Description of location where tree found:  
    - 28/1 Moo 2, Ban Nong Sim Yai, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket  
    - In home garden  
12. Latitude, Longitude:  
    - N 15.068414’, 104.049876’, E, 142 M  
13. Farmers name + photo; who is owner of tree(s)  

   Mrs. Yuphaphin Chiangwong  
14. Comments:  
   - aromatic, tolerant to disease, easy flowering and fruit setting
**Mamuang Sampacon**

1. Mamuang Sampacon (*Mangifera indica* ‘Sampacon’)
2. Meaning of local name: none
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 30-500 fruits/tree
7. Farmer descriptor:
   - Canopy: round medium canopy, heavy branching, high dense of leaves, cracked bark
   - Leaves: light green, elliptical shape, Leaf apex is acuminate
   - Flower: light pink inflorescence, light green peduncle
   - Fruit: elliptical shape, circular cross section, No beak present
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh
9. Market traits:
   - good taste
10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by layering
11. Description of location where tree found:
   - 18 Moo 1, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
   - In home garden
12. Latitude, Longitude:
   - 15.061411 N, 104.029623 E / Alt: 132 m.
13. Farmers name + photo; who is owner of tree(s)
    
    Mrs. Phimphon Nonthawong

14. Comments: the mature fruit is easy to be cracked and rottened
Mamuang Nong Saeng

1. Mamueng Nong Saeng (*Mangifera indica* ‘Nong Saeng’)
2. Meaning of local name:
   - first found at Nong Saeng district, Saraburi province
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: December - January
5. Fruiting season: March - May
6. Productivity estimate: 200-300 fruits/tree
7. Farmer descriptor:
   - Canopy: canopy is small
   - Leave: leave base is wide,
     - leave is lanceolate or ovate
   - Fruit: caruncle is big, the bottom is sharp,
     - thick peel about 0.1 centimetres
8. Uses and key traits & characteristics:
   - Fruit: spicy Thai-style salad,
     - mango with sweet fish sauce
9. Market traits:
   - nutty taste
10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by grafting,
     - cutting and layering
11. Description of location where tree found:
    - 138 Moo 2, Ban Nong Sim Yai, Tambon Huai Thap Than,
      - Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.067533’, 104.040492’, E, 142 M
13. Farmers name + photo; who is owner of tree(s)
    
    Mrs. Khamwan Chiangwong
14. Comments: sweet taste, oily, crunchy, high yield
Mamuang Nangklangwan

1. Mamuag Nangklangwan (*Mangifera indica* ‘Nangklangwan’)  
2. Meaning of local name: long shelf life  
3. Relative abundance of the variety: 1 tree/village  
4. Flowering season: December - January  
5. Fruiting season: March - May  
6. Productivity estimate: 200-300 fruits/tree  
7. Farmer descriptor:  
   - Canopy: canopy is big  
   - Leave: long leave, deep green colour, leave shape is lanceolate or ovate  
   - Fruit: long fruit, the bottom is curve, sinus is shallow, thick peel about 0.22 centimetres  
8. Uses and key traits & characteristics:  
   - Leave: ingredient in food (spicy Thai-style salad, side dishes)  
   - Fruit: snack, pickle, conserve, jam, candy  
9. Market traits:  
   - Good taste, long shelf life, good for transportation  
10. What conservation actions or related good practises are done (an image based if possible):  
    - Propagation by grafting, budding and layering  
11. Description of location where tree found:  
    - 26 Moo 10, Ban Cha Ma, Tambon I Se, Amphoe Pho Si Suwan, Si Sa Ket  
    - In home garden  
12. Latitude, Longitude:  
    - N 15.262776’, 103.993303 ’, E, 128 M  
13. Farmers name + photo; who is owner of tree(s):  
   Mrs. Pi Phuongphan  
14. Comments:  
   - Thick pulp, sweet taste and juicy, flat seed, high yield
Mamuang Houchang

1. Mamuang Houchang (*Mangifera indica* ‘Houchang’)
2. Meaning of local name: none
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: February - March
5. Fruiting season: April - June
6. Productivity estimate: 100 fruits/tree
7. Farmer descriptor:
   - Canopy: medium canopy, brown bark, having gummy latex
   - Leaves: linear oblong shape, leaf apex is acuminate
   - Flower: conical inflorescence, aromatic
   - Fruit: large fruit, roundish shape
8. Uses and key traits & characteristics:
   - Leave: ingredient in food
     - (spicy Thai-style salad, side dishes)
   - Fruit: snack, pickle, conserve, jam, candy
   - Wood: firewood
9. Market traits:
   - very large fruit
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by seed and layering
11. Description of location where tree found:
    - 11 Moo 3, Ban Nong Hu, Tambon I Se,
      Amphoe Pho Si Suwan, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.27858’, 103.9974’, E, 136 M
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Phut Sura
14. Comments: the pulp is thick, sweet taste, tolerant to disease and insect
**Mamuang Okrong**

1. **Mamuang Okrong (Mangifera indica ‘Okrong’)**
2. Meaning of local name: having groove at the fruit base
3. Relative abundance of the variety: 1 tree/village
4. Flowering season: January - February
5. Fruiting season: February - March
6. Productivity estimate: 100-700 fruits/tree
7. Farmer descriptor:
   - **Fruit:** 12 centimetres in length, 7.3 centimetres in width, 6.5 centimetres in diameter, deep green colour peel, light yellow peel (ripen), having groove at the fruit base
8. Uses and key traits & characteristics:
   - **Leaf:** ingredient in food (spicy Thai-style salad, side dishes)
   - **Fruit:** eaten fresh
   - **Wood:** firewood
9. Market traits:
   - good taste for ripe fruit eaten, popular menu of sweet mango with sticky rice and coconut milk
10. What conservation actions or related good practises are done (an image based if possible):
    - propagation by seeds and layering
11. Description of location where tree found:
    - Nong Hu village, Tambon I Se, Amphoe Pho Si Suwan, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 19° 17.344’, E 099° 01.764’
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Somphon Khantiwong
14. Comments: juicy, a lot of splinter
Mamuang Okrong Thong

1. Mamuang Okrong Thong (*Mangifera indica* ‘Okrong Thong’)
2. Meaning of local name:
   - having groove at the fruit base, golden ripe fruit
3. Relative abundance of the variety: > 5 trees/village
4. Flowering season: December - January
5. Fruiting season: January - March
6. Productivity estimate: 500 fruits/tree
7. Farmer descriptor:
   - Canopy: canopy is medium
   - Leave: acuminate leave
   - Fruit: 11.9 centimetres in length, light green colour peel, golden yellow peel (ripen), having groove at the fruit base
8. Uses and key traits & characteristics:
   - Fruit: mango with sticky rice, jam
   - Wood: firewood
9. Market traits:
   - good taste for ripe fruit eaten, popular menu of sweet mango with sticky rice and coconut milk
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by seeds, layering
11. Description of location where tree found:
    - 11 Moo 3, Ban Nong Hu, Tambon I Se, Amphoe Pho Si Suwan, Si Sa Ket
    - in home garden
12. Latitude, Longitude:
    - N 15.27858’, 103.9974’, E, 136 M
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Phut Sura
14. Comments: thin peel, thick pulp, juicy, aroma
Mamuang Man Kun Sri

1. Mamuang Man Kun Sri (*Mangifera indica* ‘Man Kun Sri')
2. Meaning of local name: first found at Man Kun Sri, Nonthaburi
3. Relative abundance of the variety: < 5 trees/village
4. Flowering season: December - January
5. Fruiting season: January - May
6. Productivity estimate: 200 fruits/tree
7. Farmer descriptor:
   - Canopy: large canopy, 10-20 m in height, vigourous branches
   - Leaves: elliptical leaf shape, Leaf apex is acuminate, leaf base is acute
   - Flower: light pink in the middle of petals, white inflorescence
   - Fruit: long cylindrical shape, sloping downward dorsal shoulder
8. Uses and key traits & characteristics:
   - Leaves: use in making compost fertilizer
   - Fruit: fresh fruit eaten, eat with sticky rice
   - Wood: furniture, fire wood
9. Market traits:
   - delicious, sweet, good taste, high market demand
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by seeds, layering
11. Description of location where tree found:
    - 26 Mu 10, Ban Chama, Amphoe Pho Si Suwan, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - N 15.262776’, 103.993303 ’,E, 128 M
13. Farmers name + photo; who is owner of tree(s)
    Mrs. Pi PhuangPhan
14. Comments: mild tolerant to disease and insect
Nephelium spp.
Kho-Laen

2. Meaning of local name : the texture of peel is rough like skin of *Varanus* sp. (the meaning in english of Lan is the animal in *Varanus* sp. genus)
3. Relative abundance of the variety : 2 plants/village
4. Flowering season : December - February
5. Fruiting season : February - June
6. Productivity estimate : 2,000 – 3,000 fruits/plant
7. Farmer descriptor :
   - Canopy: oblong shape, 10-20 meters in height
   - Leave: leave arrangement is alternate, 20-30 centimetres in length in compound leave, leave is elliptic, 3-8 centimetres in weight, 10-20 centimetres in length, leave base is oblique, leave apex is acute, blade is flat, leave margin is entire, deep green colour
   - Fruit: elliptic shape, 1.5-2 centimetres in diameter, 2.5-3 centimetres in length, skin is rough, green colour (immature), deep red colour (mature), sour taste
8. Uses and key traits & characteristics :
   - Tree: Shading
   - Fruit: eaten fresh
   - Wood: building, handle of knife
9. Market traits :
   - none
10. What conservation actions or related good practises are done: propagation by seeds
11. Description of location where tree found :
   - 120, Tambon Huai Tha Than, Amphoe Huai Tha Than, Si Sa Ket
12. Latitude, Longitude :
   - 15.056692 N, 104.023436 E / Alt : 133 m.
13. Farmers name + photo; who is owner of tree(s)

   Mr. Montri Chombun
14. Comments : At present Kho-Lan are almost discarded
Ngo Rongrian

1. Rong-Rien (*Nephelium lappaceum* ‘Ngo Rongrian’)
2. Meaning of local name: the first found was in school ground
3. Relative abundance of the variety: < 10 trees/village
4. Flowering season: January - February
5. Fruiting season: May - July
6. Productivity estimate: 100-300 kg/tree
7. Farmer descriptor:
   - the large size, the beautiful shape and color, and the sweet, crunchy and easily-stoned flesh
   - Rambutans are oval in shape with long hairy skin which is green when young.
   - Mature Ngo Rongrian rambutans have dark red and hair with light green tips
   - Tree: medium to large canopy, brown bark
   - Leaves: compound leaf, 2-4 leaflets
8. Uses and key traits & characteristics:
   - Fruit; eaten fresh, canned
9. Market traits:
   - red skin, sweet taste and crunchy
10. What conservation actions or related good practices are done:
    - propagation by grafting, layering
11. Description of location where tree found:
    - 148 Mu 2, Tambon Huai Thap Than, Amphoe Huai Thap Than, Si Sa Ket
    - In home garden
12. Latitude, Longitude:
    - 15.0996 N, 104.045757 E / Alt: 143 m.
13. Farmers name + photo; who is owner of tree(s)
   
   Mr. Sammana Sukchan

14. Comments:
CHANTHABURI
Citrus spp.
**Som Chit, Som Ma Pit**

1. Botanical name: *Citrus japonica* Thunb.  
   synonym: *Fortunella japonica* (Thunb.) Swing.
2. Meaning of local name: very small fruit
3. Relative abundance: 70 trees/village
4. Flowering: July - August
5. Harvesting: September - October
6. Productivity estimate: 45 kg./tree
7. Farmer descriptors:
   - Leaves: ovate shape, leaf apex is acuminate, green colour, small stipule
   - Fruits: round shape, small size, thin skin, green (immature), golden-yellow (ripeness)
   - Flower: borne singly or clustered in the leaf-axils, white colour, 5 petals
8. Uses and key traits & characteristics:
   - Fruit: making sweet and sour juice
   - Flower: aroma
   - Peel: sweet flavor
9. Market traits:
   - attractive fruit color
10. Good practises or conservation action:
    - Propagation by seeding and layering
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude: 102° 06' 48"
13. Farmers name + photo; who is owner of tree(s)
   
   ![Image of farmer](image)
   Mrs. Phuangthong Phanitphanra

14. Comments: Becoming popular as good fruit juice in local market
Garcinia spp.
Mangkhut, Maeng Khut, Meng Kop

1. Botanical name: *Garcinia mangostana* L.
2. Meaning of local name: -
3. Relative abundance of the variety: 500 trees/village
4. Flowering: November - January
5. Harvesting: March - April
6. Productivity estimate: 120 kg./tree
7. Farmer descriptor:
   - Leaves: elliptic shape, waxy
   - Fruits: round shape, green colour (immature), red-violet (ripeness), smooth skin
   - Flower: deep pink colour, receptacle is green colour
8. Uses:
   - Fresh eaten, Medicine, Functional food products, Food additives, Drinks, Cosmetics
9. Key traits & characteristics:
   - containing beneficial antioxidant qualities
10. Good practises or conservation action:
    - Propagation by seeding and layering
11. Description of location where tree found:
    - Home garden, Commercial orchards
12. Latitude, Longitude: 102° 10´ 1.0079
13. Farmers name + photo; who is owner of tree(s)

Mrs. Banyen Manokit

14. Comments: The fresh juice will become more popular as it is quite superb.
**Phawa, Wa Nam, Ka Wa, Mapong, Khwat, Kwak, Mai, Mak Kwak, Saraphipa**

1. Botanical name: *Garcinia speciosa* Wall.
2. Meaning of local name: -
3. Relative abundance: 2 trees/village
4. Flowering: January - April
5. Harvesting: May - June
6. Productivity estimate: 70 kg./tree
7. Farmer descriptors:
   - Leaves: simple leave, elliptic shape, leave apex is acute, leave margin is entire
   - Fruits: oblong shape, smooth skin, bottom is acute, green colour (immature), red colour (ripe fruit)
   - Flower: male flower have light yellow colour, 4 petal, oblong shape, petal and sepal of female flower have longer than male flower
8. Uses:
   - Medicinal uses:
     - Dry leaves are hot extracted as a laxative
     - Dry flowers are hot extracted as a medicine to reduce the fever
9. Key traits & characteristics:
   -
10. Good practises or conservation action:
    - Propagation by seeding and layering
11. Description of location where tree found:
    - In home garden and in the wild
12. Latitude, Longitude: 12° 34´ 21˝N/102° 18´ 28˝E
13. Farmers name + photo; who is owner of tree(s)

Mrs. Rotchana Kaeomani

14. Comments: It is uncommon in home garden.
Chamuang, Ka Muang, Muang, Yot Muang, Som Muang

2. Meaning of local name: -
3. Relative abundance: 200 trees/village
4. Flowering: March - June
5. Harvesting: August - November
6. Productivity estimate: 50 kg./tree
7. Farmer descriptors:
   - Leaves: lanceolate shape, leave apex is acuminate
   - Fruits: round shape, smooth skin, slightly lobed, green-yellow colour (immature), yellow to orange colour (ripe fruit)
   - Flower: inflorescence flower, small inflorescence, hard and thick petal
8. Uses:
   - Young leaves: ingredient in famous local food as MooChamuang curry
   - Shoots: side dishes
9. Key traits & characteristics:
   - soury taste
10. Good practises or conservation action:
    - Propagation by seeding and layering
11. Description of location where tree found:
    - In home garden and in the wild
12. Latitude, Longitude: N 12° 35' 116'', E 102° 09' 945''
13. Farmers name + photo; who is owner of tree(s)

Mrs. Phuangthong Phanitphan

14. Comments: Commonly found in Chanthaburi
Mangifera spp.
Mamuang Okrong Thong

2. Meaning of local name: golden color at ripening
3. Relative abundance: 80 trees/village
4. Flowering: December - January
5. Harvesting: March - April
6. Productivity estimate: 100 kg./tree
7. Farmer descriptors:
   - Leaves: acuminate leave, leave margin is undulate
   - Fruits: oblong shape
   - Flower: inflorescence flower, light yellow
8. Uses:
   - Fruit: eaten fresh,
9. Key traits & characteristics:
   - Aromatic, sweetness
10. Good practises or conservation action:
    - Propagation by seeding, layering, grafting
11. Description of location where tree found:
    - Mostly found in home garden
12. Latitude, Longitude: 102° 9’ 1.0275
13. Farmers name + photo; who is owner of tree(s)

Mrs. Prasoet Doemsombun

14. Comments: Mostly found in home garden
Mamuang Namdokmai

2. Meaning of local name: -
3. Relative abundance: 80 trees/village
4. Flowering: November - December
5. Harvesting: March - April
6. Productivity estimate: 80 kg./tree
7. Farmer descriptors:
   - Leaves: big size, acuminate leave, leave margin is undulate
   - Fruits: long shape, more pulp, small seed, thin skin, yellow colour (ripen)
   - Flower: white or light yellow colour, 4-5 sepals
8. Uses:
   - Fruits traits: sour (unripe), sweet (ripe), aroma
9. Key traits & characteristics:
   - Aromatic, sweetness
10. Good practices or conservation action:
    - Propagation by seeding and layering
11. Description of location where tree found:
    - In home garden and commercial orchard
12. Latitude, Longitude:
    - N 12° 32' 552", E 102° 16' 062"
13. Farmers name + photo; who is owner of tree(s)

Mr. Akson Tonklang

14. Comments: Many households, few trees
**Mamuang Khiaosawoei, Mamuang Mun**

2. Meaning of local name: Nutty
3. Relative abundance of the variety: 80 trees/village
4. Flowering: November - December
5. Harvesting: March - April
6. Productivity estimate: 90 kg./tree
7. Farmer descriptors:
   - Leaves: acuminate leave, deep green colour (mature)
   - Fruits: long and curve shape
   - Flower: short peduncle
8. Uses:
   - Green fruit eaten
9. Key traits & characteristics:
   - Nutty taste
10. Good practises or conservation action:
    - Propagation by layering
11. Description of location where tree found:
    - In home garden and in fruit orchards
12. Latitude, Longitude:
    - N 12° 28' 940", E 102° 04' 162"
13. Farmers name + photo; who is owner of tree(s)

Mrs. Prasoet Doemsombun

14. Comments: Many households, few trees
<table>
<thead>
<tr>
<th>Mamuang Khi Mu</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Meaning of local name: Special aroma</td>
</tr>
<tr>
<td>3. Relative abundance: 5 trees/village</td>
</tr>
<tr>
<td>4. Flowering: November - December</td>
</tr>
<tr>
<td>5. Harvesting: April - May</td>
</tr>
<tr>
<td>6. Productivity estimate: 40 kg./tree</td>
</tr>
<tr>
<td>7. Farmer descriptors:</td>
</tr>
<tr>
<td>- Leaves: acuminate leave, leave margin is undulate</td>
</tr>
<tr>
<td>- Fruits: round or ellipsoid shape</td>
</tr>
<tr>
<td>- Flower: short peduncle</td>
</tr>
<tr>
<td>8. Uses:</td>
</tr>
<tr>
<td>- Ripe fruit eaten, candy mango</td>
</tr>
<tr>
<td>9. Key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Aromatic</td>
</tr>
<tr>
<td>10. Good practices or conservation action:</td>
</tr>
<tr>
<td>- Propagation by seeding and layering</td>
</tr>
<tr>
<td>11. Description of location where tree found:</td>
</tr>
<tr>
<td>- In home garden</td>
</tr>
<tr>
<td>12. Latitude, Longitude:</td>
</tr>
<tr>
<td>- N 12° 36' 482&quot;, E 102° 10' 363&quot;</td>
</tr>
<tr>
<td>13. Farmers name + photo; who is owner of tree(s)</td>
</tr>
<tr>
<td>Mr. Akson Tonklang</td>
</tr>
<tr>
<td>14. Comments: Few households, few trees</td>
</tr>
</tbody>
</table>
**Mamuang Kaeo, Mamuang Ban**

2. Meaning of local name: Home mango
3. Relative abundance: 50 trees/village
4. Flowering: December - January
5. Harvesting: March - April
6. Productivity estimate: 90 kg./tree
7. Farmer descriptors:
   - Leaves: obovate or peltate shape
   - Fruits: round shape, smooth skin
   - Flower: inflorescence flower, short peduncle
8. Uses:
   - Ripen fruit eaten, pickled, preserved, fruit juice
9. Key traits & characteristics:
   - Best for processing products
10. Good practises or conservation action:
    - Propagation by seeding, layering
    - Good for using as stock
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude: N 12° 36' 430", E 102° 10' 360"
13. Farmers name + photo; who is owner of tree(s)

Mrs. Prasoet Doemdombun

14. Comments:
   - Many households, few trees
   - Easy flowering and fruiting
Nephelium spp.
Ngo Si Chomphu

1. Botanical name: *Nephelium lappaceum* L.
2. Meaning of local name: pink colour
3. Relative abundance: 30 plant/village
4. Flowering: January-February
5. Harvesting: April-May
6. Productivity estimate: 120 kg./tree
7. Farmer descriptors:
   - Leaves: obovate or peltate shape
   - Fruits: round shape, pink colour
   - Flower: perfect flower
8. Uses:
   - Fruit: eaten fresh
9. Key traits and characteristics:
   - attractive pink color
10. Good practises or conservation action:
    - Propagation by layering
11. Description of location where tree found:
    - Home garden and fruit orchard
12. Latitude, Longitude: N 12° 32' 537", E 102° 16' 052"
13. Farmers name + photo; who is owner of tree(s)

Mrs. Phuangthong Phanitphan

14. Comments:
   - The first found was in Khlung district, Chanthaburi province
<table>
<thead>
<tr>
<th>Ngo Rongrian</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.  Botanical name: <em>Nephelium lappaceum</em> Linn.</td>
</tr>
<tr>
<td>2.  Meaning of local name: Found in school ground</td>
</tr>
<tr>
<td>3.  Relative abundance of the variety: 100 plant/village</td>
</tr>
<tr>
<td>4.  Flowering season: February - June</td>
</tr>
<tr>
<td>5.  Fruiting season: April - May</td>
</tr>
<tr>
<td>6.  Productivity estimate: 90 kg./tree</td>
</tr>
<tr>
<td>7.  Farmer descriptor:</td>
</tr>
<tr>
<td>- Leaves: pinnately compound leaf, ovate shape</td>
</tr>
<tr>
<td>- Fruits: round shape, green colour (mature), red colour (ripen)</td>
</tr>
<tr>
<td>- Flower: inflorescence flower, cream colour</td>
</tr>
<tr>
<td>8.  Uses and key traits &amp; characteristics:</td>
</tr>
<tr>
<td>- Fresh eaten</td>
</tr>
<tr>
<td>9.  Market traits:</td>
</tr>
<tr>
<td>- Sweet, crispy, pulp is easily separated from seed</td>
</tr>
<tr>
<td>10. What conservation actions or related good practises are done (an image based if possible)</td>
</tr>
<tr>
<td>- Propagation: seeds, grafting, layering</td>
</tr>
<tr>
<td>11. Description of location where tree found:</td>
</tr>
<tr>
<td>- Home garden, commercial garden</td>
</tr>
<tr>
<td>12. Latitude, Longitude: N 12° 32’ 537, E 102° 16’ 052’</td>
</tr>
<tr>
<td>13. Farmers name + photo; who is owner of tree(s)</td>
</tr>
<tr>
<td>Mrs. Banyen Manokit</td>
</tr>
<tr>
<td>14. Comments: Commercial fruit tree</td>
</tr>
</tbody>
</table>
NAKHON SI THAMMARAT
Garcinia spp.
Som Kundarn

1. Som Kundarn (*Garcinia* sp.)
2. Meaning of local name: local fruit with sour taste and drought tolerant
3. Relative abundance of the variety: many households but few trees
4. Flowering season: Apr. - May
6. Productivity estimate: 100-150 kgs. per tree
7. Farmer descriptor: Big green fruit with smooth skin and sour taste
8. Uses and key traits & characteristics:
   - Fresh or dry fruit used as food ingredient
   - Dry fruit used as health product to decrease weight
9. What conservation actions or related good practises are done: Grown as home garden
10. Description of location where tree found: 192 Moo 9, Tumbon Kumloan, Lanska District, Naknon Si Thammarat 80220
11. Farmers name:

Mr Virat Trechot
Mangifera spp.
Mamuang Bao  (Farmer-named variety)
1. Mamuang Bao (*Mangifera indica* L.)
2. Meaning of local name: mango fruit which can be harvested early
3. Relative abundance of the variety: few households and few trees
4. Flowering season: all year round
5. Fruiting season: all year round with heavy in Mar.-Apr.
6. Productivity estimate: 30-50 kgs. per tree
7. Farmer descriptor: small green mango fruit with medium sour taste
8. Uses and key traits & characteristics:
   - Green fruit used for green salad
   - Seasoning in curry or as vegetable in curry
9. What conservation actions or related good practises are done: Grown as home garden
10. Description of location where tree found: 16 Moo 9, Tumbon Kumloan, Lanska District, Naknon Si Thammarat 80220
11. Farmers name:

Mrs Maen Nuedee
Nephelium spp.
Ngo Baan (red variety)
1. Ngo Baan (*Nephelium lapaceum* L.)
2. Meaning of local name: local rambutan
3. Relative abundance of the variety: two trees found in the study area
4. Flowering season: Apr. - May
6. Productivity estimate: 50 - 80 kgs. per tree
7. Farmer descriptor: red skin fruit with short hair, smaller size, sweet and sound taste and flesh stick to seed
8. Uses and key traits & characteristics:
   - Fresh fruit
   - Sweet and sour taste, juicy with light aroma
9. What conservation actions or related good practises are done: not occurred
10. Description of location where tree found: 39/1 Moo 9, Tumbon Kumloan, Lanska District, Naknon Si Thammarat 80220
11. Farmers name:

Mrs Reang Taleungpet
Trang
Citrus spp.
**Lime**

1. **Som Nao** (*Citrus aurantifolia*)
2. Meaning of local name:
3. Relative abundance of the variety: 1-2 trees/household (Few trees Many households)
4. Flowering season - all year round (new inflorescence grow with new shoot)
5. Fruiting season - all year round
6. Productivity estimate - 100 - 200 fruits
7. Farmer descriptor:
   - Leaves have small wing, leave tip is curve, scent
   - Fruit: round shape, smooth skin, scent
8. Uses and key traits & characteristics:
   - Fruit: - juice is the ingredient in food, savour is sour and scent- skin and juice is used as medicine against cold and cough
   - Young leaves: side dishes
9. Market traits: sour taste and good aroma
10. What conservation actions or related good practises are done (an image based if possible)
    - Propagation by air marcotting and seeds to increase number of plant
11. Description of location where tree found: In home ground
12. Latitude, Longitude: N 7.99255, E 99.72283
13. Farmers name + photo; who is owner of tree(s)
    - House of Mr. Nan Nuchan
    - 24/2 Ban Moo 5, Ban Nong Si Chan
14. Comments: good price during dry season

![Image of lime tree and lime fruits](image)

Mrs. Boonrin Nuchan
Makrut

1. Som Krut, Makrut, (*Citrus hystrix*)
2. Meaning of local name:
3. 20 trees / village (Few trees Few households)
4. Flowering: May – July
5. Fruiting: Harvesting, Fruit: October – December, Leaves: all year
6. Productivity estimate: 20-50 fruits per tree per year, 5 kg. young leaves
7. Farmer descriptors:
   - Leaves: dark green, size of leaf and leafy petiole is similar, leave tip is curve, scent
   - Fruit: rough skin, scent
8. Use and key traits and characteristics:
   - Fruit: juice is the ingredient in cooking, sweet and sour, scent, ingredient in shampoo protects itching, eliminate dandruff
   - Whole fruit is the ingredient in mussaman curry and fish organs curry
   - fruit skin is the ingredient in curry paste, crispy fried noodles and Thai dressed salad, relieve flatulence
   - Leaves: the ingredient in food for flavour
   - Plant: ornamental, potted plant
9. Market traits: good aroma
10. What conservation actions or related good practices are done?
    - Propagation by layering and seeds
11. Description of location where tree found: in home garden
13. Farmers name + photo; who is owner of tree(s)
    - House of Mr. Nan Nuchan 24/1 Ban Nong Si Chan
    - House of Mr. Phamon Saengkaeo 21/1 Moo 5, Ban Nong Si Chan
    - House of Mrs. Kanong Nuchan 12 Moo 4, Ban Na Khao

Mrs. Kanong

14. Comments: Juice is good for health care products
Ma-ngua

1. *Citrus medica* var. *medica*
2. Meaning of local name:
3. 3 trees / village (Few trees Few households)
4. Flowering: All year
5. Fruiting: All year
6. Productivity estimate: 20 fruits per year per tree
7. Farmer descriptors:
   - Leave: leave shape is similar pomelo, but longer
   - The scent is similar lemongrass mixed with bergamot
   - Fruit shape is similar pomelo but smaller
8. Use and key traits and characteristics:
   - Young leave is the ingredient in Kaeng Namkhoei (shrimp paste is make form small fresh-water fish), the flavor is little bitter, scent, Piscine deodorant
9. Market traits: - good aroma
10. What conservation actions or related good practises are done?
    - Propagation by layering and seeds
11. Description of location where tree found: in home garden
12. Latitude, Longitude: N 7.99277, E 99.72392
13. Farmers name + photo; who is owner of tree(s)
    - Wang Mu Temple
    - House of Mr. Phamon Saengkaeo
    21/1 Moo 5, Ban Nong Si Chan
14. Comments:- juice can be used for detergent ingredient
Som Chang Kra

1. *Citrus* sp.
2. Meaning of local name:-
3. 5 trees / district (Few trees few household)
4. Flowering: All year (flowering with new shoots)
5. Fruiting: Harvesting, All year
6. Productivity estimate: 20 fruits (age 4 years)
7. Farmer descriptors:
   - Leaves: without wing, similar to lime leave but longer and narrower, acute tip, leave margin is lobate, sweet smell
   - Fruits similar to bergamots but the skin is smooth
8. Use and key traits and characteristics:
   - Fruits; the juice is used as an ingredient in cooking for soury taste
9. Market traits: sour taste with bit of sweetness, juice for seasoning
10. What conservation actions or related good practises are done?
    - Propagation by layering and seeds
11. Description of location where tree found: in home garden
12. Latitude, Longitude: N 7.99258, E 99.72882
13. Farmers name + photo; who is owner of tree(s)
    - House of Mrs. Boonreang Wongkeaw:
      23 Moo 5, Ban Nong Si Chan
    - House of Mrs. Kanong Nuchan:
      12 Moo 4, Ban Na Khao

Mrs. Boonreang  Mrs. Kanong

14. Comments: It can be substituted for lime
Pumelo

1. Som O Khao Poung  
   \textit{(Citrus maxima var. Khao Poung)}

2. Meaning of local name: many fruits in one bunch and flesh is white

3. Relative abundance of the variety: 5 trees in the village (Few trees Few households)

4. Flowering season: all year round (new inflorescence growth with new shoot)

5. Fruiting season: all year round

6. Productivity estimate: 30 fruits/year

7. Farmer descriptor:
   - Leaves similar as Pattawia variety but smaller
   - Fruits: medium size, greeny-white texture, sweet test

8. Uses and key traits & characteristics:
   - Fruits: eaten fresh

9. Market traits: sweet and sour taste

10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by air marcotting to increase number of plant

11. Description of location where tree found: in home garden, orchard


13. Farmers name + photo; who is owner of tree(s)
    - Mr. Thongdi Chitbanchoet 32 Moo 5, Ban Nong Si Chan

Mrs. Thongdi

14. Comments: good taste, could be produced for sale
Pumelo

1. Pumelo var. Pattawia Nuea Daeng
   (*Citrus maxima*)

2. Meaning of local name:

3. Relative abundance of the variety: 1 tree in the village (Few trees Few households)

4. Flowering season: all year round (new inflorescence growth with new shoot)

5. Fruiting season: all year round

6. Productivity estimate: 20 fruits/tree/year

7. Farmer descriptor:
   - Leaves similar as Pattawia Khao varity
   - Fruits: big fruits (2.6 kg.), red flesh, sweet and sour taste

8. Uses and key traits & characteristics:
   - Fruits: eaten fresh

9. Market traits: red flesh, sweet and sour taste, big fruit

10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by air marcotting to increase number of plant.

11. Description of location where tree found: in home ground

12. Latitude, Longitude: N 7.99269, E 99.72412

13. Farmers name + photo; who is owner of tree(s)
    - Mr. Sombat Wongkaeo 24 Moo 5, Ban Nong Si Chan

14. Comments: Pulp is red, sweet and sour taste, big fruit
Pumelo

1. Som O Pattawia Nuea Khao (*Citrus maxima*)
2. Meaning of local name:-
3. Relative abundance of the variety: 4 trees in the village (Few trees Few households)
4. Flowering season: all year round (new inflorescence growth with new shoot)
5. Fruiting season: all year round
6. Productivity estimate: 50 fruits/tree/year
7. Farmer descriptor:
   - Leaves similar as Ma-ngua but more width and shorter
   - Fruits: big, pinkish white flesh, sweet and sour flavour
8. Uses and key traits & characteristics:
   - Fruits: eaten fresh
9. Market traits: sweet and sour taste
10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by air marcotting to increase number of plant
11. Description of location where tree found: in home garden, orchard
12. Latitude, Longitude: N 7.99257, E 99.72882
13. Farmers name + photo; who is owner of tree (s)
   - Mr. Thongdi Chitbanchoet 32 Moo 5, Ban Nong Si Chan (3 trees)
   - Mrs. Khanong Nuchan 12 Moo 4, Ban Na Khao
14. Comments: good taste, big fruits

Mrs. Ramphoei Chitbanchoet
Som Paen Khima

1. Som Paen Khima (*Citrus reticulata*)
2. Meaning of local name:
3. Relative abundance of the variety: 2 tree in the village (Few trees Few households)
4. Flowering season: all year round (new flower grow with new shoot)
5. Fruiting season: all year round
6. Productivity estimate: 40 fruits
7. Farmer descriptor:
   - Leaves: similar as manao and same size
   - Fruits: round fruits similar as Manao Paen (lime), size fruits are bigger than lime fruits
8. Uses and key traits & characteristics:
   - Fruits: eaten fresh, sweet test, found specific in south only
9. Market traits: sweet and sour taste smaller fruit than shogun, tolerate to disease
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by air marcotting and seeds to increase number of plant
11. Description of location where tree found: in home garden
12. Latitude, Longitude: N 7.99633, E 99.73353
13. Farmers name + photo; who is owner of tree(s)
    - Mrs. La-ong dao Kanchana

69 Moo 6 Ban Tham Phra Phut

14. Comments:- tolerate to disease
Som Sa

1. Som Sa (*Citrus aurantum* var. *aurantium*)
2. Meaning of local name:-
3. Relative abundance of the variety: 2 tree in the village (Few trees Few households)
4. Flowering season: all year round (new inflorescence growth with new shoot)
5. Fruiting season: all year round
6. Productivity estimate: 20-50 fruits/trees
7. Farmer descriptor:
   Leaves: dark green similar as pumelo but smaller sweet smell
   Fruits: round bigger than shogun but smaller than Ma-ngua
8. Uses and key traits & characteristics:
   - Juice: ingredient in food, sour flavour, solvent for herbal medicine, outer skin of peel ingredient in crispy fried noodles
9. Market traits: sour with sweet taste, sweet smell
10. What conservation actions or related good practises are done (an image based if possible)
   - propagation by seeds (from other place) to increase number of plant
11. Description of location where tree found: in backyard
12. Latitude, Longitude: N 7.99735, E 99.73353
13. Farmers name + photo; who is owner of tree(s)
   - Mr. Nom Nuchan 4 Moo 4, Ban Na Khao
   - Mr. Wichian Prabpram, 43 Moo 4, Ban Na Khao

Mr. Wichian

14. Comments: It can be substituted for lime
Garcinia spp.
### Chamuang Chang

1. Chamuang Chang (*Gacinia atroviridis*)
2. Meaning of local name: Chamuang tree with big leaves
3. 1 tree / village (few trees per district)
4. Flowering: February - April, harvest young leaves of new shoots (evergreen trees)
5. Fruiting: Harvesting, August – October
6. Productivity estimate:
7. Farmer descriptors:
   - Leave: big and thick leave, similar to mangosteen but longer, the shoots are red
   - Fruit: the size fruit is similar mangosteen, yellow skin, white flesh, 3-4 lobes, sweet and sour
   - yellow gum
8. Use and key traits and characteristics:
   - Shoots: side dishes, ingredient in cooking, leaves have to be singed before use to get rid the smell of gum
   - Woods: handle of big knife and hoe
   - Fruit: eaten fresh
9. Market traits: -leaves are ingredient for curry or soup to give soury taste (often for fish, beef or pork)
10. What conservation actions or related good practises are done?
    - Propagation by seeds
11. Description of location where tree found: forest buffer zone
12. Latitude, Longitude: N 7.99257, E99.72390
13. Farmers name + photo; who is owner of tree(s)
   House of Mr. Thawi Phetsong:
   100 Moo 4, Ban Na Khao
14. Comments: damaged easily by termites
Chamuang Sai

1. Muang Sai, Muang Bai Lek (*Garcinia cowa*)
2. Meaning of local name:- bai lek is small leaves
3. 10 trees/village (Few trees Few households)
4. Flowering: evergreen tree
5. Fruiting: Harvesting - all year, new shoots appear after cutting
6. Productivity estimate: 10 kg of young leaves per tree
7. Farmer descriptors:
   - Leave: smaller than Chamuang Chang and Chamuang Som, acute leave, umber shoots (lighter than Chamuang Som), sour flavour
   - Fruit: small fruit, yellow-orange skin in ripen, fruit skin have cave, very sour
   - Petiole and shoots have gum
8. Use and key traits and characteristics:
   - Shoots: side dishes, ingredient in cooking
   - Fruit: ingredient in cooking (fresh and dry fruit)
9. Market traits: - ingredient for curry or soup to give soury taste (often for fish, beef or pork)
10. What conservation actions or related good practises are done?
    - Propagation by seeds
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude: N 7.99280, E 99.72395
13. Farmers name + photo; who is owner of tree(s)
    - House of Mr. Thawi Phetsong:
      100 Moo 4, Ban Na Khao
    - House of Mr. Phamon Saengkaeo:
      21/1 Moo 5, Ban Nong Si Chan
      Mr. Phamon
14. Comments: fruits could be dried as *G. atroviridis*
Chamuang Som

1. Muang Som, Chamuang Ban (Garcinia cowa)
2. Meaning of local name: ban is home, commonly found in home garden
3. 10 trees/village (Few trees Few households)
4. Flowering: evergreen tree, new shoots appear after cut
5. Fruiting: July-Augest, Leaves harvesting all year
6. Productivity estimate: 5-10 kg. of young leaves-
7. Farmer descriptors:
   - Leave: smaller than Chamuang Chang but bigger than Chamuang Sai, long leaves and acuminate apex, umber shoots
   - Fruit: the size of fruit is similar to the thumb, red-orange skin in ripen, sour flavour
   - Petiole and shoots have gum
8. Use and key traits and characteristics:
   - Shoots: side dishes, ingredient in cooking
   - Fruit: ingredient in cooking (fresh and dry fruit)
9. Market traits:
   - ingredient for curry or for soup to give soury taste (often for fish, beef or pork)
10. What conservation actions or related good practises are done?
    - Propagation by seeds
11. Description of location where tree found:
    - in home ground
12. Latitude, Longitude: N7.99280, E 99.72395
13. Farmers name + photo; who is owner of tree(s)
    House of Mr. Prakop Chu Bun Si: Moo 5, Ban Nong Si Chan
    House of Mr. Wichian Prappram: 43 Moo 4, Ban Na Khao

Mr. Prakop

14. Comments: new shoots appear all year round after cutting, high demand
Mangosteen

1. Mangkhut (*Gacinia mangosatana*)
2. Meaning of local name:-
3. Relative abundance of the variety: every house, 3-10 plants per household (Many trees Many households)
4. Flowering season: March - April
5. Fruiting season: July - September
6. Productivity estimate: 50 - 70 kg./tree/year
7. Farmer descriptor:
   - Leaves similar as Phawa leave but thicker, dense canopy
   - Fruit: round, ripe fruit is purple with red, smooth skin, sweet test, yellow resin,
8. Uses and key traits & characteristics:
   - Ripe fruit: eaten fresh, jam, bark is astringent, drug rash, ingredient in soap, toothpaste and shampoo
   - Young fruit or fall fruit: charcoal
   - Leaves: dyeing
9. Market traits: - sweet light soury taste, nice looking flesh
10. What conservation actions or related good practices are done (an image based if possible)
    - promote the agriproduct processing
11. Description of location where tree found: in home ground, in orchard
12. Latitude, Longitude: N 7.99227 E 99.72404
13. Farmers name + photo; who is owner of tree(s)
    - All over the district
    - At Moo 5 (24 households from 140 households do not have mangosteen)

Mr. Phamon

14. Comments: south is latest in fruiting season, so price is always low
Phawa

1. Pha wa (*Gacinia speciosa*)
2. Meaning of local name: -
3. 6 trees/district (Few trees Few households)
4. Flowering: October-November
5. Fruiting: Harvesting: February-May
6. Productivity estimate: 100-300 fruits
7. Farmer descriptors:
   - Leave: similar to mangosteen but thinner,
     high tree, the canopy is low density, yellowish green
     shoots
   - Fruit: small red-orange, smooth skin, sweet flavour,
     many gum resin, small sepal attached
   - Petiole, shoots, branch and bark have gum resin
8. Use and key traits and characteristics:
   - Fruit: eaten fresh (ripen), eating too much would be
     vomiting
   - Woods: for handle of big knife and hoe
9. Market traits: no
10. What conservation actions or related good practises
    are done?
    - Propagation by seeds
11. Description of location where tree found: road site,
    the bank of the creek, forest buffer zone
12. Latitude, Longitude: N 7.99258, E 99.72882
13. Farmers name + photo; who is owner of tree(s)
    - House of Mr. Sombat Wongkaeo:
      24 Moo 5, Ban Nong Si Chan (1 tree)
      - Near the house of past village headman:
        Moo 4, Ban Na Khao (5 trees)
14. Comments: leaves and bark used for dye
*Nephelium* spp.
1. *Nephelium lappaceum*
2. Meaning of local name: commonly found in home ground
3. 5 trees / village (few trees few households)
4. Flowering: April - May
5. Fruiting: Harvesting, August - September
6. Productivity estimate: 50 kg./tree
7. Farmer descriptors:
   - High tree, small fruit: leaves and fruits smaller than Ngo Rongrian, the fruit flesh is soft and juicy, the edible portion is harder to peel away from the seed (clingstone) except not ripen, sweet or sour taste.
8. Use and key traits and characteristics:
   - Fruit; eaten fresh, juice
9. Market traits: red or yellow skin, often sweet with light soury aftertaste, small fruits and many fruits per tree
10. What conservation actions or related good practises are done?
    - Propagation by layering and seeds
11. Description of location where tree found:
    - In home garden
12. Latitude, Longitude: N 7.99258, E 99.72882
13. Farmers name + photo; who is owner of tree(s) -
    - House of Mr. Nan Nu-Chan: 24/1 Moo 5, Ban Nong Si Chan
    - House of Mr. Sombat Wongkaeo: 24 Moo 5, Ban Nong Si Chan,
    - House of Mr. Lamphu Wongkaeo: 4 Moo 5, Ban Nong Si Chan
14. Comments: It could be used for juice because of the sweet and sour taste
Ngo Rongrian

1. *Nephelium lappaceum*
2. Meaning of local name: the first found was in school ground
3. 50 trees / village (Few trees Many households)
4. Flowering: June - July
5. Fruiting: Harvesting, August - September
6. Productivity estimate: 30-50 kg./tree
7. Farmer descriptors
   - Not high, the fruit bigger than Ngo Ban, the fruit flesh is crunchy, freestone, sweet
8. Use and key traits and characteristics:
   - Fruit; eaten fresh, canned
9. Market traits: red skin, sweet taste and crunchy
10. What conservation actions or related good practises are done?
    - Propagation by layering
11. Description of location where tree found:
    :in home ground and in orchard
13. Farmers name + photo; who is owner of tree(s)
    - House of Ms. Hathaithip Onthong
    11 Moo 6, Ban Tham Phra Phut
14. Comments: The price is very low because of late harvesting (after the east region) and low demanding. It is better to exploit new product to get more income
Mangifera spp.
Mango

1. Muang Bao (*Mangifera indica*)
2. Meaning of local name: Bao is early season for fruiting and easily to produce fruits
3. Relative abundance of the variety: 30 tree in the village (Few trees Few households)
4. Flowering season: all year round (March - April)
5. Fruiting season: May - June
6. Productivity estimate: 100 fruits
7. Farmer descriptor:
   - The leaves are big, long and pointed
   - Fruits are small have 20 fruit per bunch, young and mature fruits are sour flavour, ripe fruits are yellow and orange colour and sweet test
8. Uses and key traits & characteristics:
   - Shoot/young leaves/flower: vegetable
   - Young fruit: side dishes, ingredient in food (Thai salad, pickle)
   - Ripe fruit: eaten fresh (sweet test)
9. Market traits: - immature, mature and ripe fruits are used for distinct purposes
10. What conservation actions or related good practises are done (an image based if possible)
   - Propagation by air marcotting and seeds to increase number of plant
11. Description of location where tree found; in home garden, paddy field and orchard
12. Latitude, Longitude: N 7.99277, E 99.72392
13. Farmers name + photo; who is owner of tree(s)
   - Mrs. Chiraphan Phosi : 40 Moo 5, Ban Nong Si Chan
   - At rice field, Moo 4, Ban Na Khao

Mrs. Chirapha

14. Comments: good price for green fruits this year (25-30 bahts/kg. wholesale)
**Mamuang Chok Anan**

1. Mamuang Chok Anan (*Mangifera indica*)
2. Meaning of local name: enormously and endless good luck
3. Relative abundance of the variety: 20 trees in the village (Few trees Few households)
4. Flowering season: March - April
5. Fruiting season: May - June
6. Productivity estimate: 20 fruits
7. Farmer descriptor:
   - Short tree, The leaves are long and sharp
   - Fruits shape similar as Mamuang Kaeo, unripe fruit is crispy and sour flavour, ripe fruit is yellow skin, texture is dense, whole fruit is strong, sweet flavour and scent
8. Uses and key traits & characteristics:
   - Fruit: ripen fruit eaten fresh
9. Market traits: ripen fruits have good taste, sweet
10. What conservation actions or related good practises are done (an image based if possible)
    - Propagation by air marcotting to increase number of plant
11. Description of location where tree found: in home garden
12. Latitude, Longitude: N 7.99277, E 99.72397
13. Farmers name + photo; who is owner of tree(s)
    - Mrs. Chiraphan Phosi
      
      40 Moo 5, Ban Nong Si Chan

14. Comments: This variety is the only one that produces fruit in environment of the south excluding Mamuang Boa
Mango

1. Mamuang Kaem Daeng (*Mangifera indica*)
2. Meaning of local name: Ripe fruit has a red skin on the part of fruit near calyx (stem of fruit)
3. Relative abundance of the variety: 1 tree in the village (Few trees Few households)
4. Flowering season: March - April
5. Fruiting season: May - June
6. Productivity estimate: 500-1,000 fruits/tree
7. Farmer descriptor:
   - Leaves: long and slender
   - Fruit: small fruits, sour flavor, ripe fruit is green and yellow skin, aroma,
8. Uses and key traits & characteristics:
   - Fruit: eaten fresh
9. Market traits: used both green and ripen
10. What conservation actions or related good practises are done (an image based if possible)
   - Propagation by seeds to increase number of plant
11. Description of location where tree found: in home garden, forest
12. Latitude, Longitude: N 7.99370, E 99.72635
13. Farmers name + photo; who is owner of tree(s)
   - Mrs. Phraeo Onthong
   - 11 Moo 5, Ban Nong Si Chan
14. Comments:-Ripen fruits are aroma could be used for juice, drinks.
Mamut Kha Khwai

1. Mamut Kha Khwai (*Mangifera foetida*)
2. Meaning of local name: have big fruit
3. Relative abundance of the variety: 3 trees in the village (Few trees Few households)
4. Flowering season: March - April
5. Fruiting season: June - July
6. Productivity estimate: 100 fruits
7. Farmer descriptor:
   - leaves: big, long and pointed
   - fruits: big, the bottom have nib, sour flavor, ripe fruits are green with yellow color and sweet with sour flavor, strong smell, fibrous
8. Uses and key traits & characteristics:
   - unripe fruits: ingredient in food as vegetable (Thai salad, curry, pickle) and side dishes, seasoning (soury taste) laxative
   - ripe fruits: eaten fresh, sweet with sour flavor
9. Market traits: green: sour taste, ripe: sweet or soury sweet strong smell when ripe
10. What conservation actions or related good practises are done (an image based if possible)
    - propagation by seeds to increase number of plant
11. Description of location where tree found: in home garden
12. Latitude, Longitude: N 7.99284, E 99.72519
13. Farmers name + photo; who is owner of tree(s)
    - Mr. Noi Chaikrachang
    - 48 Moo 5, Ban Nong Si Chan
14. Comments: flesh with strong smell and sweet and sour taste could be used for ingredient of ice-cream, cake
Mamut Phrik

1. Mut Phrik (*Mangifera foetida*)
2. Meaning of local name:-
3. Relative abundance of the variety: 5 trees in the village (Few trees Few households)
4. Flowering season: March - April
5. Fruiting season: June - July
6. Productivity estimate: 50 - 100 fruits
7. Farmer descriptor:
   - Leaves: big and long but small than Mamut Kha Khwai, curved tip
   - Fruit: smaller than Mamut Kha Khwai, sour flavour, ripe fruit is green with yellow colour and sweet test, sweet scented, very fibrous
8. Uses and key traits & characteristics:
   - Unripe fruit: ingredient in food (Thai salad, pickle) and side dishes, Laxative and seasoning (sour taste)
   - Ripe fruit: eaten fresh, sweeter than Mamut Kha Khwai, sweet scented
9. Market traits: green: sour taste, ripe: sweet or soury sweet strong smell when ripe
10. What conservation actions or related good practises are done (an image based if possible)
11. Description of location where tree found: in home ground
12. Latitude, Longitude: N 7.99258, E 99.72882
13. Farmers name + photo; who is owner of tree(s)
   - Mr. Sombat Wongkaeo 24 Moo 5, Ban Nong Si Chan
   - Mr. Nan Nuchan 24/1 Moo 5, Ban Nong Si Chan
14. Comments: flesh with strong smell and sweet and sour taste could be used for ingredient of ice-cream, cake