

2024 DFNet Workshop in Taiwan

**Tropical Fruit Consortium:  
Addressing Climate Change Impacts on  
Tropical Fruit Production and Strategies of  
Adaptation and Mitigation**

**Field Trip to Kaohsiung, Pingtung and Taitung**

**May 28-30, 2024**

---

**Organizers**

Food and Fertilizer Technology Center for the Asian and Pacific Region (FFTC)

Fengshan Tropical Horticultural Experiment Branch, Taiwan Agriculture Research Institute, Kaohsiung, Taiwan

Taitung District Agricultural Research and Extension Station, Taitung, Taiwan

**Partners**

Kaohsiung District Agricultural Research and Extension Station, Kaohsiung, Taiwan

**Financial support:**

DFNet III Project “Tropical Fruit Consortium: Addressing Climate Change Impacts on Tropical Fruit Production and Strategies of Adaptation and Mitigation” funded by Ministry of Foreign Affairs, Taiwan

# Workshop Concept

---

## Background

Tropical fruits thrive in warm weather, with specific temperature ranges being critical for optimal growth and quality at various stages of development. Any deviation from these ideal conditions can significantly impact production and fruit quality. Climate variables, such as shifting temperatures, water availability, pests, diseases, and farming practices, all exert influence on tropical fruit production. Consequently, fruit crops grown in areas with historically high temperatures may need to consider relocating due to changing climate patterns.

Urgent mitigation strategies are required to enhance adaptive capacity and minimize climate change's adverse effects. These strategies include the adoption of suitable and improved cultivars, alterations in cultural practices, improved water management, microclimate modifications, and soil organic carbon enhancement. Additionally, shifting tropical fruit cultivation to new areas is a viable adaptation option. Leveraging historical climate data, ensemble modeling, spatial analysis, and agro-climatic zoning can help identify climate-related risks and landscape indicators, guiding future strategy development and planning. Government agencies, agricultural researchers, and extension services play a pivotal role in guiding and supporting tropical fruit growers in adapting to climate change and implementing sustainable practices to ensure the long-term viability of tropical fruit production.

## Goal

- Stallholders adopt resilient best practices in tropical fruit production in the Asia-Pacific region, effectively mitigating the impact of climate change.

## Objectives

- Discuss and identify mitigation strategies for addressing the impact of climate change on smallholders in tropical fruit production.
- Compile best practices tailored for farmers in the Asia Pacific Region and formulate recommendations for promotion and dissemination.
- Demonstrate Taiwan's efforts on mitigating climate change impact on tropical fruit.

## Themes

- Orchards vulnerable to the effects of climate change and demonstrating environmental monitoring to inform decision-making.
- Orchards showcasing exemplary agricultural practices, low carbon farming and/or other adaptive practices.
- Roundtable discussion: Identifying climate change threats to fruit production and discussing mitigation strategies for respective countries or region.

# Field Trip Program

**May 28**

Time	Program
08:20	<b>For participants did not stay at Garden Villa Hotel:</b> Bus pickup at No. 2 Bus Stop in front of the Exit 2 of Kaohsiung HSR Station
08:30	<b>For participants staying at Garden Villa Hotel:</b> Bus pickup at hotel lobby
08:30 – 10:00	Bus trip to Liugui Township, Kaohsiung
10:00 – 11:10	Visit <b>Wax Apple Orchard</b> (黃家蓮霧果園) <ul style="list-style-type: none"> <li>- Climate-resilient and environment-friendly management</li> <li>- Enjoy the newly released wax-apple cultivar</li> </ul>
11:10 – 12:10	Bus trip to Meinong District, Kaohsiung
12:10 – 13:30	Lunch at <b>Hakka Restaurant</b> (煙樓坊美術館餐廳)
13:30 – 14:40	<b>COCOSUN chocolate factory</b> for a 15-min break
14:55 – 15:15	Bus trip to Fangshan Township, Pingtung
15:15 – 16:15	Visit <b>Mango In-House Facility</b> (枋山芒果綜合設施) <ul style="list-style-type: none"> <li>- Automatic operation (shade, water, pesticide)</li> <li>- Labor-saving &amp; climate-resilient</li> </ul>
16:15 – 17:40	Bus trip to Taitung, take 15-min break at <b>Star of Dawu</b> , Dawu, Taitung
17:40 – 18:40	Bus trip to Taitung and check in at <b>Inn by the Village</b> , Taitung City
18:40 – 21:00	Welcome Dinner at the Hotel Restaurant

## May 29

Time	Program
07:50	Gather at Hotel lobby
08:00 – 08:30	Bus trip to Beinan, Taitung
08:30 – 09:30	Visit <b>Goodtime Fruit Orchard – Atemoya (好蒔果子)</b> - Strategy & adaptation to wind-blow
09:30 – 09:45	Bus trip to <b>Beinan Tourist Center</b> for a 15-min break
10:00 – 10:30	Bus trip to <b>Easyhome Orchard – Custard apple (易家園)</b> - Strategy & adaptation to wind-blow
11:00 – 12:00	Bus trip to <b>Yuan Sen Applied Botanical Garden (台東原生應用植物園)</b>
12:00 – 13:30	Lunch at <b>Yuan Sen Applied Botanical Garden</b> - Hot pot meal with > 10 native plants - From-farm-to-table supply chain management - Organic farming certified & value-added agri-products & leisure park
13:30 – 14:30	Bus trip to <b>Torik Visitor Center</b> for a 15-min break
14:45 – 15:10	Bus trip to Chenggong Township, Taitung
15:10 – 16:10	Visit <b>Healthy Citrus Seedling Center (柑橘健康種苗中心)</b> - Huanglongbing-free seedling supply chain - PPP (Public-Private Partnership) model - Sustainable citrus industry
16:10 – 17:25	Bus trip to <b>Jialulan Park</b> for a 15-min break
17:25 – 18:00	Back to Hotel (Inn by the Village)
18:00 – 21:00	Farewell Dinner at the Hotel Restaurant

## May 30

Time	Program
08:20	Check out Hotel and bus pickup at the lobby
08:20 – 08:40	Bus trip to <b>Taitung District Agricultural Research and Extension Station</b> (臺東區農業改良場)
09:00 – 12:00	<b>DFNet Forum</b> <ul style="list-style-type: none"> <li>- Country report</li> <li>- Group discussion</li> <li>- Conclusion &amp; recommendation</li> </ul>
12:00 – 13:30	Lunch
14:00 – 18:00	<b>Bus trip</b> to Kaohsiung <ul style="list-style-type: none"> <li>- Back to Kaohsiung HSR station</li> <li>- Back to Garden Villa Hotel</li> </ul> <b>Railway trip</b> to Taipei

- Participation of the field is by invitation.
- The field visit will be filmed and recorded and will be uploaded on the DFNet Project YouTube channel.

## Hotel Information

---

### Garden Villa

No.801 Chongde Rd. Zuoying District, Kaohsiung City, Taiwan

<https://www.taiwantravelmap.com/hotel/919-ch-index.html>

高雄 蓮池潭國際會館

高雄市左營區崇德路 801 號

### Inn by the Village

No. 585, Section 1, Zhonghua Rd, Taitung City, Taitung County, Taiwan

<http://www.nf-taitung.com.tw/>

臺東 南豐鐵花棧

臺東市中華路一段 585 號