



# Mango Agribusiness Research Program

## Mango Quality

Enhancing fruit quality in Asian mango chains

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Information  
Markets  
Biosecurity  
Quality

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# Project Overview

## Perspectives on mango quality

- ▶ Objective 1: Develop a common objective language
- ▶ Objective 2: Enhance common understanding and develop capacity
- ▶ Objective 3: Evaluate opportunities to improve quality
- ▶ Activity timelines
- ▶ MQ SRA team
- ▶ Outputs and outcomes





## Issue and opportunity

- ▶ Mango fruit quality into export markets is highly variable, market requirements for quality characteristics are unclear, and importers, retailers and consumers are frequently disappointed
- ▶ Along supply chains from ACIAR partner countries into major current and emerging markets, such as in mainland China, better understanding is required of strategic industry, market development, and research opportunities for improving mango fruit quality, including through developing and sharing in-common understanding approaches
- ▶ At present, individual ACIAR partner mango producer countries and their supply chains either do not or cannot consistently deliver high quality mango fruit into major markets, such as those in mainland China



## **Overall Aim:**

To develop a common approach to assessing, describing, and improving fruit quality in Asian mango supply chains

### ▶ **Objectives**

- ▶ **Develop a common objective language** for describing physical and eating quality in fresh mango supply chains across project partner countries
- ▶ **Enhance common understanding and develop capacity** in the assessment and improvement of physical and eating quality in mango supply chains
- ▶ **Evaluate opportunities to improve quality** in select mango supply chains and key market segments in mainland China



# 1. **Develop a common objective language** for describing physical and eating quality in fresh mango supply chains across project partner countries

	<b>Objective 1</b>	
1.1	Identify and confirm collaborators	QDAF SCI
1.2 & 1.3	Review and document subjective and objective mango quality criteria	QDAF SCI & IFT
1.4	Develop and produce draft materials for use in Workshop 1	QDAF SCI & IFT <i>with Mango Information SRA team</i>
1.5	Invite and arrange travel and accommodation for Workshop 1 participants	GU, QDAF SCI
1.5	Conduct Workshop 1 in Guangzhou, China	GU, QDAF SCI & IFT
1.5	Partnership commitment to project activities (negotiate level)	GU, QDAF SCI & IFT
1.5	In-market assessment of mango quality in PR China	QDAF SCI & IFT
1.5	Training experts	QDAF SCI & IFT
1.6	Draft and document on common language	QDAF SCI & IFT



## 2. Enhance common understanding and develop capacity in the assessment and improvement of physical and eating quality in mango supply chains

Objective 2		
2.1	Final reviews on mango eating qualities relevant to participating countries and target markets	QDAF SCI & IFT
2.2	Produce and disseminate mango quality criteria and assessment e-manual	QDAF SCI & IFT
2.3	Conduct domestic mango quality assessments in Australia	QDAF SCI & IFT
2.4	Identify and document the current industry issues and research gaps relating to mango quality in Australia	QDAF SCI & IFT



### 3. Evaluate opportunities to improve quality in select mango supply chains and key market segments in China

<b>Objective 3</b>		
3.1	Identify priority market segments for Australian exporters	QDAF SCI & UQ <i>with Markets SRA</i>
3.2	Document analysis on physical and eating quality characteristics	QDAF SCI
3.3	Document analysis for the preferred fresh mango fruit quality characteristics	QDAF SCI & IFT
3.4	Document analysis on relationships between quality and price	QDAF SCI & UQ & QDAF IFT
3.5	Conduct export trials (Aus)	QDAF SCI
3.6	Conduct simulation trials (Aus)	QDAF SCI & IFT
3.7	Workshop 2 in Guangzhou, China	QDAF SCI & IFT & UQ <i>with Mango Markets and Mango Biosecurity SRA teams</i>





# To date activity timeline: *Australia example*



Under Skin Browning

		J	A	S	O	N	D	J	F	M
<b>Objective 1</b>										
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3.6	Conduct simulation trials (Aus)									
3.7	Conduct Workshop 2 in Guangzhou, China									

	Preparation time
	Deadline
	Reporting deadline







# Mango Quality Team - Workshop 1

Name	Organisation
Daryl Joyce	Q-DAF, Australia
Philippa Tyler	Q-DAF, <b>Australia</b>
Yiru Chen [ECR]	Q-DAF, Australia
Emma Ruth Bayogan	UP Min, <b>Philippines</b>
Leizel Secretaria [ECR]	UP Min, Philippines
Som Bunna	Cambodian Ag Res & Dev. Inst., <b>Cambodia</b>
Aman Ullah Malik	Uni. of Ag. Faisalabad, <b>Pakistan</b>
Zainuri	Universitas Mataram, <b>Indonesia</b>
Anh Tram San	SIAEP, <b>Vietnam</b>
Hongxia Qu	SCBG, CAS, <b>China</b>



# Existing mango fruit quality information (e.g. ex-Philippines)





# MANGO QUALITY MANUAL

A rapid 'thru the supply chain' assessment manual  
comprised of the following ...

**ASSESSMENT TEMPLATE**

**INFORMATION KIT**

DATA RECORDING SHEET

CHECK LIST

DEFECT AREA SCALE

# Commercial partners

Australia

<https://www.manbulloo.com/>



Philippines

<http://www.spffc.com/>





## **Outputs and outcomes:**

### **Improved fruit quality through mango supply chains in Australasia**

Common mango fruit quality language and assessments ...

- ▶ Fruit quality prescription meetings
- ▶ Fruit quality description and assessment manual

Shared understanding of regional mango supply chains ...

- ▶ Country of origin to market in China case studies
- ▶ Linkage of activities and information flow with 'sister' SRAs

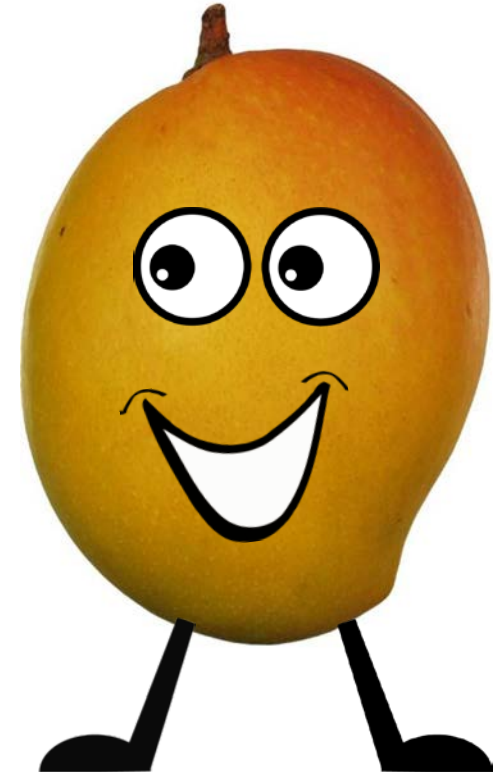
Mango fruit quality networking ...

- ▶ 'Start-off' fruit quality networking and consensus workshop
- ▶ 'End-up' fruit quality and economics evaluation workshop



# Thank you *and* **acknowledgements**

- ▶ CAS, especially Yueming Jiang & Hongxia Qu
- ▶ ACIAR, especially Rodd Dyer
- ▶ GU, especially Robin Roberts
- ▶ QDAF, including Noel Ainsworth
- ▶ **MQ team** & host organisations



# The end

