



MFC
MILDURA FRUIT COMPANY



KCT – Meeting protocols, export success & FRW integrated control

NSW DPI Citrus R&D Roadshow, Oct. 2017



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KCT – Grower protocol overview

- KCT – KOREA, CHINA & THAILAND MARKETS
- There are a number of quarantine pests for these markets – Fullers Rose Weevil (FRW) is no. 1, ultimately need to keep FRW from laying eggs under the calyx
- KCT – critical pests of concern, CA KCT IPM manual an excellent source
 - LBAM
 - Borers
 - Phytophthora
 - Red Scale & Mealybug - Korea




KCT

Australian citrus to Korea, China and Thailand

Integrated Pest Management, orchard registration, and packing house controls

Horticulture Innovation Australia
Citrus Australia



KCT – Grower protocol overview

KCT

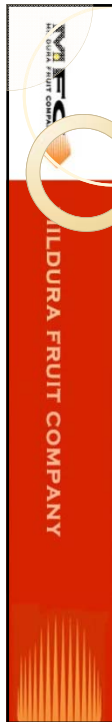
- Keep monthly monitoring records – official Dept of Ag (DOA) survey conducted in Feb (Registered crop monitors) preferably use qualified pest scouts
- Ensure blocks selected are growing good size class I fruit to justify the extra expense
- Online registrations – excellent system
- DOA audits – usually during March
- Commodities we are sending include; Navels, Cara's, Bloods, Valencia's, Lemons, Tangelos, Afourers, Ruby G/F
- Growers & Packers must comply with protocols not to jeopardise market



Grower Program Qualification

KCT

- Growers commit to carrying out DOA work-plan for season.....How?
 - Skirt trees to height clear off the ground
 - Weeds under control preventing access into canopy
 - Where required apply trunk sprays for FRW barrier
 - Other FRW controls – discuss later
 - Comply with monitoring report recommendations each month.
 - Submit spray diary to packing shed prior to DOA audits



Grower Program Qualification ^{KCT}

- Trunk sprays - include Kaolin clay confirming coverage
- Provide packing shed with all necessary documentation qualifying for DOA work-plans
- Comply to harvest KCT orchards when directed
- Maintain the integrity of traceability from orchard to packing shed.



Grower program qualifications

- Some new alternatives for FRW control to get away from the need of trunk sprays (which can create other issues in the orchard)
 - Samurai – emergency use permit for CGW although a “game changer for FRW control”. Also has other benefits eg. Red Scale control. Ground application
 - Exirel – only just been registered in citrus for Kellys CT, LBAM & FRW, Foliar application

Both chemicals can have negative affects on bees and Labels should be followed closely!

FRW CONTROL OPTIONS WHERE FRW PRESENT

PRODUCT	NOV	DEC	JAN	FEB	MAR	APR
TRUNK SPRAYS		EARLY/ MID DEC		EARLY FEB		EARLY APR
SAMURAI	MID NOV					
EXIREL	MID NOV			MID FEB		
EXIREL + TRUNK	MID NOV (EX)			EARLY FEB (TR)		EARLY APR (TR)
TRUNK + EXIREL		EARLY/ MID DEC (TR)		MID FEB (EX)		

Please note, Samurai & Exirel can be harmful to bees, growers must ensure to wait until after the end of flowering and apply only as outlined on product labels

Packing Shed Responsibilities - MFC KCT

- Provide direction to growers carrying out DOA work-plan.....How?
 - Pre-season meetings; preparing potential orchards for registration and periodic newsletters during season
 - Arrange to employ Scouts to monitor KCT orchards for pests of concern to KCT countries...monthly cycle
 - Scouts use KCT monitoring protocol following DOA guidelines, including use of monitoring Mats, fruit inspections and submit report.
 - IPM report to MFC and to the grower
 - Organize on grower behalf DOA RCM assessment and crop monitors upload this report directly into online system
 - Continue scout monitoring until harvest

Packing Shed Responsibilities - MFC

- Provide traceability of KCT qualified fruit.....How?
 - Comply with the DOA/CAL work-plan for each country
 - Reveal & In-line Inspections



MFC – 2017 PROGRAM OVERVIEW

- MFC have 64 registered growers for the KCT program
- Intake for 2017 will be approx. 133,000 bins from approx. 1,550Ha+ Registered – est. 800+ containers
- We have worked very closely with the growers on these protocols to ensure success
- We have had significant growth, particularly in the China Market – must have the right customer base to minimise risk of slow/no payment/claims

Monthly Monitoring Report

MILDURA FRUIT COMPANY EXPORT QUARANTINE IPM MONITORING REPORT													
DATE: 20.1.16													
BLOCK/ORGANOID	NO. OF TREES	FIRM	LEARN	RED SCALE	MEALY BUG	FRUIT BORERS	FRUIT FLY	SPOTTED	BROWN ROT	GRASSY SPOT	SUNSCALD	WATER DAMAGE	COMMENTS
Farm 1 - Chappel 7,201 / Auburn G2	75	-	-	-	-	-	-	-	-	-	-	-	Visit Monitored
Farm 1 - Lark Lane G1W	100	-	-	-	-	-	-	-	-	-	-	-	Visit Monitored
Farm 2 - Washington G	100	-	-	-	-	-	-	-	-	-	-	-	Visit Monitored Traces soft brown scales
Farm 2 - Chappel B, Clark G1,G2,G3	100	-	-	-	-	-	-	-	-	-	-	-	Visit Monitored Traces soft brown scales

ACTION RECOMMENDATIONS:
 1. No IPM activity observed.
 2. Cold traces of soft scale, pest activity remains low in the heat. No action warranted.

RECORD LEVELS AS PERCENTAGE OF TRL FOR ABBOT * COMMENT ANY FRUIT WITH KAOLIN CLAY RESIDUE

Mildura Fruit Company Korea/China/Thailand Export Program 2016

Field Monitoring –Every 4 weeks

- Scouts continue monitoring and reporting;



- Post DOA inspection
- Continue to keep blocks in order - can still fail from MFC assessments

Extra Attention

- Orchards need to be skirted – essential for Thailand, important for China, reduce the risk of phytophthora
- Maintain that way until harvested

