

# Fruit Fly Contingency - a few things to think about



# Managing Movement Control Zones

- Currently no fruit fly host material can be moved out of a movement control zone
  - Fruit on an orchard will need to remain there
  - Fruit at a post harvest facility will need to remain
  - Any post harvest facility in a control zone will be inoperable
- "One fly scenario" control zone in place for approx. 4 weeks
- For breeding population control zone remains for at least one season
- No host material can be transported through the zone without permit
- Fruit moved near control zone need to verify route
- Treatment option not currently available



# Managing an ERZ

- Market restrictions applied to all fruit grown, packed or stored in the zone
- If fruit grown in a zone is packed at a facility outside the zone that facility is impacted
- Will affect 90%+ of our markets
- Can expect different sized Export Restriction Zones (ERZs)
- Smallest may be > 3.5 km
- Need verification of transport route for fruit moving close to an ERZ
- Will ERZ be imposed 48 hr retrospectively





## **Other possible scenarios**

- What happens if a fruit fly trapped in BoP in April
- What happens if there is a fruit fly incursion in BoP?



## **Example 1 – What if?**



Kiwifruit

- Cannot load charter ships inside ERZ
- Containers OK provided they are loaded outside ERZ and 100% pest proofed
- Some Mount postharvest facilities may be in Control Zone
  - no fruit can leave this zone
  - These stores become unusable for duration of control
  - All Mount post harvest facilities (packhouses and coolstores) would be in ERZ:
    - Fruit packed/stored in these facilities can go to very few markets without approved treatment
    - This likely to severely limit capacity



## **Example 2 – What if?**

• Facilities are inside movement control zone?

- during packing fruit must remain inside zone
- before packing facilities inoperable
- significant impact on industry packing and storage capacity
- Orchards in ERZ but no packing facility in ERZ?
- Some orchards in movement control zone?
- Look at putting a movement control or ERZ around your facility or orchard – what does this look like?
  - Remember that ERZs may be more than the 3.5km



## **Example 3**

- A transport route from East. BoP to port is through movement control zone - alternate via Rotorua? Are permits possible?
- A post harvest facility in ERZ can only be used if treatment protocol in place - capacity for treatment?
- Need to minimise volume of fruit that has ERZ restrictions - so best to pack all fruit grown in the ERZ in the zone. Better not to move fruit into the zone for packing







## 27.2 km ERZ

- Large volume of fruit "Not China" (assuming 27.2 km ERZ – unlikely to be less)
- Moving any fruit from this zone for packing outside the zone will increase volume of "Not China"
- Cannot load China charters at Tauranga Port





## **Pre-negotiated protocols**

#### • What will they deliver?

- Pre-agreed protocol for defining pest free zone / export restriction zones (ERZ)
  - Science based modelling to provide rational for size of ERZ
  - In 2015 agreeing ERZ took several days for most markets these may still need ratification even if agreement is in place
- Pre-agreed treatment protocols e.g. cold treatment
  - Reciprocity may make agreement difficult
  - Need capacity and capability to treat
- Ability to implement pre-agreed protocol depends on having preapproved, and "living", procedures in place
- Movement control zone will remain
- Of limited value unless industry is well prepared



# Progress to Date – area freedom

- Protocols at final draft stage
- Science completed:
  - methodology for calculating size of zone
  - methodology for closing out a response
- Have been peer reviewed 5 international reviewers
- NZ consultation completed
- Ready for negotiations



# OAP (Official Assurance Programme)

- OAP used to define requirements for specific Market Access programmes e.g. apples into Australia
- Completed and published July 2016
- Requirements will be included in Zespri's System and be part of each facility Zespri phytosanitary system.
  - Industry discussion to assist with incorporation into current operating process
  - Needs to be incorporated into system for 2017



## **Treatment Options**

- Several different options used globally
  - Cold treatment
  - Methyl Bromide fumigation
  - Heat treatment
  - Irradiation
- Cold Treatment fits into our supply chain
- Straight forward in principle .... but logistics are very difficult – don't underestimate how difficult!
- Global search for treatment data Zespri contracting treatment trials



## **Cold Treatment**

- No protocols agreed yet for NZ kiwifruit
- There are protocols in place for other kiwifruit e.g. Med Fly in Italian fruit
- Currently assembling data and carrying out some trials in Australia with QFF in Gold3
- Any treatment proposed for export fruit must be acceptable for imported fruit – reciprocity
- NZ industry requires rigorous data for import standards won't accept USDA treatment manual without data for import health standards



## **Cold Treatment Fundamentals**

- Fruit held at defined temperature (typically in 0-2 oc range) for defined time (≈15 – 20 day range)
- Can be done prior to export or during transit

But....

- All fruit must be down to temperature before treatment begins and often before container/vessel leaves
- Requires USDA approved temp loggers approx. \$US1000 per container
- Many countries require their inspector (or approved inspector) to be at loading
- Temp cannot rise between store and container / ship
- Logger fails return container to sender
- Temperature spike treatment time starts again
- Treatment prior to export requires pest-proof container loading capability
- May only allow one variety and one pack type per container



## **Some Difficult Questions?**

- If we have a large volume of fruit needing treatment is it possible??
  - do we have sufficient cooling capacity to get every pallet down to temperature prior to loading out
  - do we have sufficient coolstore rook to hold fruit for longer
  - what is the impact on market programme if we cant deliver RTE?
  - can we get sufficient high quality, USDA approved containers?
- Can we minimise ERZ by packing fruit at the closest facility?
- What is the impact on industry capacity if one (or more) large facilities is inoperable because it is in a movement control zone?
- What happens to fruit if there is no packing facility in the same ERZ?
- If we cant load charters in Tauranga?



## Thank you