



Australian Government

Department of Agriculture
and Water Resources

Phytosanitary Irradiation

NPPO oversight of the
export pathway.



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NPPO oversight of the export pathway for irradiated Australian Mangoes.

During the 2017/18 season Australia produced approximately 60,000 tonnes of mangoes of which approximately 10,000 tonnes were exported.

- Current access for irradiated mangoes to 4 countries
- Trade commenced during the 2004/05 season
- Approximately 1300 tonnes of irradiated mangoes were exported during the 2017/18 season.
- Primary market for irradiated Australian mangoes is currently New Zealand.

The systems approach

The Department oversees the export pathway to ensure that all product meets importing country requirements.

This is achieved through a systems approach utilising a combination of audits, documentation assessment and phytosanitary inspection.



Audit and registration.

The department's Audit Services Group takes carriage for the audit and approval of entities wishing to participate in the export of irradiated horticultural products.

Where pests may be present that cant be managed by irradiation other control methods on the export pathway are used to mitigate the risk. These methods and their efficacy are verified by audits at critical control points, which may include growers, crop monitors and packhouses, to ensure that importing country requirements are met.

For example; Bacterial Black Spot

- Trained and approved crop monitors
- Registered and approved orchards
- Registered and approved packhouses
- Spray diaries
- Labelling and traceability of product

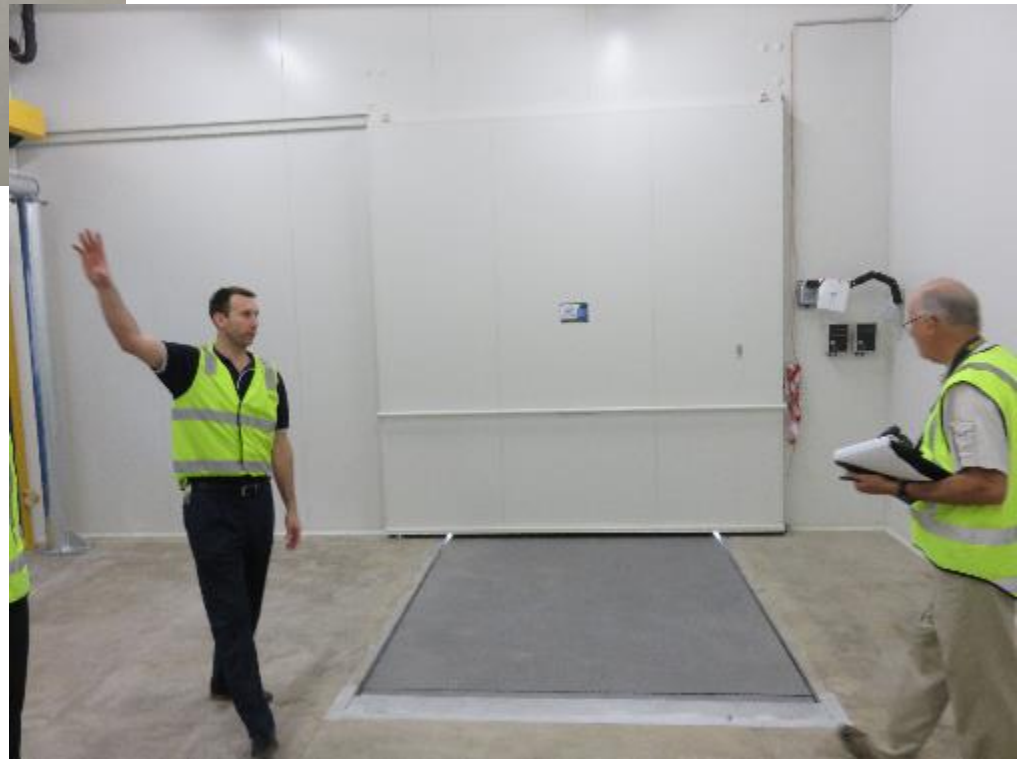


Audit and registration of irradiation facilities.

The department's audit of irradiation facilities involves verification of the following aspects of irradiation treatment:

- Standard Operating Procedures
- Flow path of export commodity through facility
- Secure site for phytosanitary export inspection
- Verification of dosimetry, dose mapping, calibration of the dosimetry system and applied dose.
- Use of approved process configuration
- Capability to undertake irradiation procedures as specified.
- Phytosanitary security of treated product.
- Hygiene and sanitation

Audits are undertaken annually against departmental and importing country requirements. Additional audits may be undertaken following significant changes to process (re-sourcing) or facility management.



Pre-treatment and pre-inspection documentation

The department's Inspection Services Group takes carriage for the phytosanitary inspection whilst the Assessment Services Group undertakes assessment of documentation associated with the export of horticultural products.

- Exporter submits required documentation
- Booking made for export inspection
- Documentation assessed against importing country requirements
- Inspection will only proceed if all documentation is correct.

Phytosanitary export inspection

Phytosanitary inspections are undertaken by Authorised Officers in Export Registered establishments. Inspection may be undertaken either pre- or post-treatment depending on importing country requirements.

- Inspection undertaken in clean, well lit, pest proof room.
- Standard 600 unit or 2% inspection rate unless alternative sampling rate is required by the importing country
- Confirm packaging and labelling
- Confirm traceability
- Verify that product security is sufficient
- Verify that the process configuration is approved prior to treatment.
- Inspection results recorded on Export Compliance Record







Export Control Act Requirement

Importing Country Requirement



Verification of treatment efficacy

Post treatment an Authorised Officer will verify the efficacy of the irradiation treatment prior to issuing a phytosanitary certificate.

- Treatment facility provides a treatment certificate which includes:
 - Treatment date
 - Minimum and maximum absorbed dose
 - Commodity details
 - Minimum dose as per importing country requirements
 - Lot number
- Treatment certificate reviewed by Authorised Officer
- All documentation submitted to the Assessment Services Group for final assessment and verification
- If all importing country requirements have been met and the consignment has been treated appropriately a phytosanitary certificate will be issued.



Thank you.