

DEPARTMENT OF AGRICULTURE AND FISHERIES

CONDUCTING AN INSPECTION OF HIGH-RISK PRODUCT FOR FRUIT FLY

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DEPRTMENT OF AGRICULTURE AND FISHERIES

ICA-WI-12

CONDUCTING AN INSPECTION OF HIGH-RISK PRODUCT FOR FRUIT FLY

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1. PURPOSE

The purpose of this work instruction is to provide guidelines for the inspection of high-risk product for Queensland and Mediterranean fruit fly.

2. SCOPE

This work instruction covers the requirements for the inspection of high-risk product for Queensland and Mediterranean fruit fly by an Authorised Inspection Person in accordance with the requirements if Interstate Certification Assurance (ICA) Operational Procedure *Fumigation with Methyl Bromide* [ICA-04].

3. REFERENCES

ICA-04 Fumigation with Methyl Bromide

4. **DEFINITIONS**

Accredited Certifier means a person who holds accreditation under chapter

15 of the Biosecurity Act 2014 to give biosecurity

certificates.

Authorised

Inspection Person

(AIP)

means a person trained and deemed competent in the detection and recognition of fruit fly and who is authorised to conduct inspections on behalf of an accredited

business.

Approved taxonomist means a person who is approved by DAF Queensland

and is listed on the DAF Queensland's Plant Health

Register of Approved Taxonomists.

Authorised Signatory means a person whose name and specimen signature is

included as an Authorised Signatory on the business's

application for accreditation.

Business means the legal entity responsible for the operation of the

facility and the ICA arrangement detailed in the Business'

Application for Accreditation.

consignment means a quantity of inspected packed produce described

on one Fruit Fly Inspection Record by a single consignee.

A consignment may contain a number of lots.

DAF Queensland means the Department of Agriculture and Fisheries

Queensland.

Fruit fly Means all life stages of the Mediterranean fruit fly species

Ceratitis capitata (Wiedemann) and Queensland fruit fly species Bactrocera tryoni (Froggatt) and related species

B. aquilonis and B. neohumeralis.

High-risk product means product as defined by the receiving jurisdiction as

requiring pre-fumigation inspection.



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Lot means a quantity of produce assembled for inspection,

prior to treatment (fumigation), at one place at one time. A lot could consist of mangoes, stone fruit and other

produce from one or more growers/packers.

produce means plants and plant products and includes members,

alive or dead, of the plant kingdom and any material of

plant origin.

5. ACTIONS

5.1 General

This Work Instruction refers to the pre-treatment inspection (high-risk products) requirements of the Interstate Certification Assurance Procedure *Fumigation with Methyl Bromide* [ICA-04]. Persons responsible for this activity must ensure they refer to the relevant sections of the ICA-04 Operational Procedure before applying any task in this Work Instruction.

6. ACTIONS

6.1 Sampling Fresh Fruit and Vegetables for Inspection

6.1.1 Inspection Type

The **Authorised Inspection Person** shall inspect high-risk product by conducting a packed product inspection following assembly of a lot prior to treatment.

6.1.2 Inspection Rate

The **Authorised Inspection Person** shall inspect 600 units of the packed product.

A separate representative 600-unit inspection must be completed for each high-risk product in a chamber load (i.e., 600 mangoes and 600 stone fruit for a given chamber load).

The **Authorised Inspection Person** shall ensure that the selection represents an even distribution of all the high-risk product varieties and suppliers (growers/packers) in the chamber load. Refer following examples.

Example 1: If a chamber load contains three varieties of mango (from the same mango grower) and ten varieties of stone fruit (from the same stone fruit grower), then 200 units are to be inspected from each variety of mango and 60 units from each variety of stone fruit.

Example 2: If a treatment chamber contains five varieties of stone fruit from ten growers, then 60 units of stone fruit from each grower must be inspected, making sure that samples are drawn in a way that ensures a proportional sub-sample from each variety is inspected.

Where there are less than 600 units of any high-risk product in a chamber load, all the high-risk product of that type must be inspected. Additionally, where there are not enough units to inspect from one inspection lot, the lot must be made up of fruit of the same type from other inspection lots. Refer following example.



Example: Where a chamber load comprises ten inspection lots of mangoes, 60 units must be inspected from each inspection lot. Where one inspection lot of mangoes in the chamber load comprises only 18 units, the additional 42 units must be inspected from across the nine other inspection lots of mangoes.

6.1.3 Minimum and Maximum Sample Size

A minimum of three (3) packages will be drawn when undertaking an inspection.

Where the **Authorised Inspection Person** identifies that the number of units in a lot is less than the required 600 units the **Authorised Inspection Person** shall examine all units in the lot.

Where the **Authorised Inspection Person** identifies that the number of units in a lot is more than the required 600 units the **Authorised Inspection Person** shall examine no more than 600 units in the lot.

6.1.4 Sampling from Punnets and Bulk Bins

Individual punnets and bulk bins are considered as packages for the purposes of sampling.

6.2 Examination of Produce

The **Authorised Inspection Person** shall examine produce from sampled packages after drawing the required number of packages depending on the inspection type and rate (refer 6.1.1 Inspection Type and 6.1.2 Inspection Rate).

All produce examinations shall be carried out by an **Authorised Inspection Person**.

The Authorised Inspection Person shall -

- 1. move all sample packages (including bulk bins) to the inspection facility;
- record information on the Fruit fly Inspection Record [CAF-151] in accordance with the relevant section of Interstate Certification Assurance Operational Procedure Fumigation with Methyl Bromide [ICA-04];
- 3. place sample cartons (where possible) on the inspection bench.
 - Where it is not possible to place the sample package on the inspection bench, the **Authorised Inspection Person** shall remove the produce from the packaging (e.g., bulk bins) and place on the inspection bench;
- 4. visually examine the required number of units (refer 6.1.2 Inspection Rate) within each sample package for fruit fly.

Whilst examining the produce the **Authorised Inspection Person** will rotate the unit so that 100% of the surface area is inspected. The **Authorised Inspection Person** shall pay attention to any signs or symptoms of fruit fly damage. Signs and symptoms of fruit fly damage may appear as 'sting marks', cracks, splits, bruises, rots and other blemishes.

Sting marks may appear as a pin prick on the skin that can be encircled by a lighter colour or appear as a dark softened spot. In light coloured stone fruit (peaches and nectarines) fruit fly larval activity can be seen as a dark shadow under intact skin. Further examination is required if any signs or symptoms are present, to look for evidence of any live suspect fruit fly.



The **Authorised Inspection Person** will use, as necessary, a hand lens of at least X10 magnification or similar device to assist in the examination of the produce and detection of suspect fruit fly.

An **Authorised Inspection Person** may remove the peel/skin or cut produce that is being examined to investigate for the presence of suspect fruit fly.

All produce that has been peeled or cut must be discarded:

- 5. place the sampled units back into the package, where applicable, until the sample package has been fully repacked;
- 6. return the sample packages to the lot following the inspection;
- 7. record information on the *Fruit fly Inspection Record* [CAF-151] in accordance with the relevant section of Interstate Certification Assurance Operational Procedure *Fumigation with Methyl Bromide* [ICA-04].

6.3 Detection of Suspect Fruit Fly

On the detection of suspect fruit fly The **Authorised Inspection Person** shall immediately cease the inspection and advise the Certification Controller.

The **Authorised Inspection Person** shall determine by reference illustrations and photographs (refer Attachment 4 Identification of Queensland fruit fly) whether the sample is suspect fruit fly.

The **Authorised Inspection Person** shall record the detection of suspect fruit fly on the *Fruit Fly Inspection Record* [CAF-151] in accordance with the relevant section of Interstate Certification Assurance Operational Procedure *Fumigation with Methyl Bromide* [ICA-04].

6.3.1 Dealing with Non-conforming Product

Immediately following advising the Certification Controller of the detection of suspect fruit fly the **Authorised Inspection Person** shall ensure all produce in the lot is rejected and segregate. Following rejection of the lot the Certification Controller will determine the most suitable options for dealing with the non-conforming produce.

There are a number of options available to deal with the non-conforming produce subject to the relevant interstate plant quarantine authority's entry requirements or conditions. The Certification Controller will determine the most suitable option in accordance with the relevant section of Interstate Certification Assurance Operational Procedure *Fumigation with Methyl Bromide* [ICA-04]. If the Certification Controller determines to have the suspect fruit fly identified the **Authorised Inspection Person** shall take a sample in accordance with Section 6.5.

If the suspect fruit fly is subsequently confirmed not to be Queensland fruit fly by the Approved Taxonomist, the inspection of the lot may continue and subject to no further detections of suspect fruit fly the lot may be declared 'inspected and free of fruit fly' in accordance with the relevant sections of Interstate Certification Assurance Operational Procedure *Fumigation with Methyl Bromide* [ICA-04].



6.4 Sampling Suspect Fruit fly

6.4.1 Taking the Sample

All suspect fruit fly samples must be taken and submitted to an Approved Taxonomist by an **Authorised Inspection Person**. Where possible, an **Authorised Inspection Person** should take more than one sample for identification.

The Authorised Inspection Person shall take each sample by -

- 1. carefully retrieving the suspect fruit fly with an appropriate instrument i.e., brush, forceps or scalpel, to avoid damaging the suspect;
- 2. placing the suspect fruit fly in a specimen bottle that contains an appropriate preservative material i.e., methylated spirits.
 - Where a suspect fruit fly is contained on produce, the produce or part of the produce with the suspect fruit fly must be wrapped in damp paper towel and placed into a plastic bag without a preservative material i.e., do not use methylated spirits;
- 3. completing a *Fruit fly Sample Submission Form* [CAF-121] in accordance with the relevant section of Interstate Certification Assurance Operational Procedure *Fumigation with Methyl Bromide* [ICA-04] (refer Attachment 2 for correctly completed example) for each sample taken; and
- 4. placing the specimen bottle or produce (if applicable) along with completed sample submission form into a sealable plastic bag and then sealed.

The **Authorised Inspection Person** shall forward the sample to an Approved Taxonomist within 24 hours of the sample being taken.

Where a suspect pest sample cannot be delivered in person by an **Authorised Inspection Person**, the sample shall be forwarded by secured mail or courier to an Approved Taxonomist for identification.

7. ATTACHMENTS

Attachment 1	Pre-Treatment Fruit Fly Inspection Record	CAF-151
		(COMPLETED EXAMPLE)
Attachment 2	Fruit Fly Sample Submission Form	CAF-121 (COMPLETED EXAMPLE)
Attachment 3	Queensland fruit fly Recognition Card	



PRE-TREATMENT FRUIT FLY INSPECTION RECORD

Date of Insp	pection:			Package Identification:	
19 June 2019				A Smith (mangoes) and B Brown (nectarines)	
Place of Inspection:				IP Number:	
Fresh Market wholesalers, Brisbane				Q9999	
A Inspect		ection Person:		Name & Address of Grower and or Packer (if multiple, list in comments/findings column)	
71 1108pccc				Refer below	
Inspection F	Rate			Produce Type (If multiple, list in comments/findings column)	
☑ 600 Unit	sit All Lliab E	Piok Droduct Inch	actad	Refer below	
Notes:	III — AII HIYII-R	isk Product Insp	recieu	Total Number of Packages in Lot (list separately if multiple	
				commodifies)	
				200 (144 mangoes and 56 nectarines)	
Package No.	Number of Units	Total Number of Units	Comments/Findings		
1	24	24	Able Smith,	123 Grower Road, Bowen, 4805	
2	24	48	✓		
3	24	72	✓		
4	24	96	✓		
5 24 120 Rots, c		Rots, cut th	ots, cut three fruit, nothing found		
6	24	148	✓		
7	24	172	✓		
8	24	196	✓		
9	24	220	√		
10	24	244	✓		
11	24	268	✓		
12	24	292	Y		
13 24 316		✓			
14 24		340	✓		
15 24		364	✓		
16	24	388	✓		
17 24		412	✓		
18 22 432		✓			
19 54 486		Bob Brown, 999 Green Road, Kingaroy, 4610			
20 56		542	✓		
21	58	600	✓		
Pass	✓ Fail	Signature of	Authorised Inspecti	on Person: Alan Inspector	
Actions resulting from a suspected detection of fruit fly					
Not Appli	Not Applicable				

CAF-151 (06/19)

FRUIT FLY SAMPLE SUBMISSION FORM

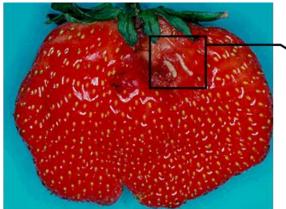
Bub is Wholecade Produce Q 9 9 9 9 9 9 9 9 9	Name of business su	bmitting sample:		IP Number:
Poblic Note Poblic Note Principle	Bob's Wholesale Produ	ace		Q 9 9 9 9
Poblic Note Poblic Note Principle	Postal address for re-	sponse:		
Corf 1234 5678 Corf 1234	50.00 00 00	* 100		
Name of person who collected sample: A lappectar Street address of property where specimen collected: 39 Markets Read, Bristbare Maturity of Sample: Eggs Larvae Adults Other (specify) Level of Infestation: High (>10) Medium (5-10) Medium (5-10) Low (<5) Street address of Source Block: Mat. Latour. Source Block IP Number: Source Block Reference Code or Number (as per Property Plan): Printed Name A lappectar A lappectar Time and date received: Image: Signature Date 1 identified by: Printed Name Signature Date Identified by: Printed Name Signature Date I if I image: Signature Date Date	Telephone number:	Fac	simile number:	Mobile number:
A Inspector Street address of property where specimen collected: 39 Markets Read, Briebane Maturity of Sample: Eggs Larvae Adults Other (specify) Level of Infestation: High (>10) Medium (5·10) Low (<5) Street address of Source Block: Net Inspector Date A Inspector Date OFFICE USE ONLY Sample number: Time and date received: My / / Identification: Identified by: Printed Name Signature Date Identified by: Printed Name Signature Date Identification: Identified by: Printed Name Signature Date	(07) 1234 5678	(07	1) 1234 5678	0424 234 567
Street address of property where specimen collected: 39 Markets Road, Brisbane Maturity of Sample: Eggs	Name of person who	collected sample:		Time and date collected:
Maturity of Sample: Garden Adults Other (specify)	A Inspector			16:00 AM 23/07/19
Maturity of Sample: Eggs	Street address of pro	perty where specimen col	lected:	
Eggs	39 Markets Road, Br	isbane		
Eggs	Maturity of Sample:			
Level of Infestation: High (>10)	_	✓ Larvae	Adults Othe	er (specify)
Level of Infestation: High (>10) High (>10) Medium (5-10) Street address of Source Block: Not known Source Block IP Number: Source Block Reference Code or Number (as per Property Plan): Printed Name A Inspector A Inspector Date A Inspector Identification: Identified by: Printed Name Signature Date Identified by: Printed Name Signature Date Identified by: Printed Name Identified by:				(
Street address of Source Block: Source Block IP Number: Q				7
Street address of Source Block: Source Block IP Number: Q Source Block Reference Code or Number (as per Property Plan): Printed Name Signature A !nspector OFFICE USE ONLY Sample number: Identification: Identified by: Printed Name Signature Date A !nspector Date A !nspector Date				
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		гасыние		- PM / /
	Printed Name		Signature	Date

-121 (10/17) V1

QUEENSLAND FRUIT FLY RECOGNITION CARD



Left: Adult Queensland fruit flv



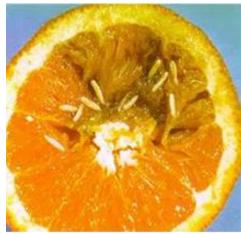
Left: Infested strawberry with large well developed larvae placed on the fruit surface



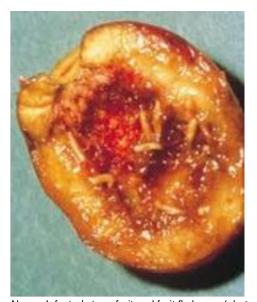
Above: Magnified section showing larvae of Queensland fruit fly



Left: Infested tomato with large well developed larvae.



Above: Infested citrus fruit with well-developed larvae (photo courtesy Primary Industries and Regions SA)



Above: Infested stone fruit and fruit fly larvae (photo courtesy Plant Health Australia)