

ICA-WI-12

CONDUCTING AN INSPECTION OF HIGH-RISK PRODUCT FOR FRUIT FLY

VERSION REGISTER

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Biosecurity Queensland

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WORK INSTRUCTION

Version: 2 Date: 22/03/24



CONDUCTING AN INSPECTION OF HIGH-RISK PRODUCT FOR FRUIT FLY

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DEPARTMENT OF AGRICULTURE AND FISHERIES



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.
- Authorisedmeans 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 flyMeans 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.

Queensland

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Lotmeans a quantity of produce assembled for inspection,
prior to treatment (fumigation), at one place at one time.
A lot could consist of chillies, stone fruit and other
produce from one or more growers/packers.producemeans 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 highrisk product in a chamber load (i.e., 600 chillies 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 chillies (from the same chilli grower) and ten varieties of stone fruit (from the same stone fruit grower), then 200 units are to be inspected from each variety of chilli 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.



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

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;
- 2. 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.



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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].



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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

Queensland Government				
Date of Ins	pection:			Package Identification:
	19 J	une 2019		A Smith (mangoes) and B Brown (nectarines)
Place of Ins		1		IP Number:
Fresh Market wholesalers, Brisbane Name of Authorised Inspection Person:			ine	Q9999 Name & Address of Grower and or Packer (if multiple, list in
A Inspector				comments/indings column)
				Refer below
Inspection				Produce Type (if multiple, list in comments/findings column)
☑ 600 Unit		isk Product Insp	pected	Refer below
Notes:				Total Number of Packages in Lot (list separately if multiple
				commodities)
			-	200 (144 chillies and 56 nectarines)
Package	Number of	Total		Comments/Findings
No.	Units	Number of Units		
1	24	24	Able Smith,	123 Grower Road, Bowen, 4805
2	24	48	~	
3	24	72	1	
4	24	96	~	
5	24	120	Rots, cut th	ree fruit, nothing found
6	24	148	~	
7	24	172	~	
8	24	196	1	
9	24	220	~	
10	24	244	~	
11	24	268	~	
12	24	292	~	
13	24	316	1	
14	24	340	1	
15	24	364	1	
16	24	388	1	
17	24	412	1	
18	22	432	~	
19	54	486		, 999 Green Road, Kingaroy, 4610
20	56	542	1	
21	58	600	~	
Pass ✓ Fail Signature of Authorised In			f Authorised Inspecti	ion Person: Alan Inspector
Actions resultion	from a suspected dete	ection of fault fly		

Actions resulting from a suspected detection of fruit fly

Not Applicable

FRUIT FLY SAMPLE SUBMISSION FORM

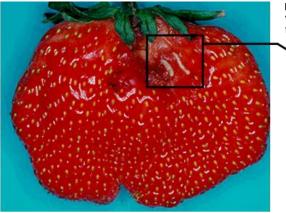
Name of business subm	nitting sample:				IP Nu	mber	:	
Bob's Wholesale Produce					Q 9	9	9	9
Postal address for respo	onse:							
PO Box 123, Markets K	Road, Brisbane 410,	7						
Telephone number:		Facsimile number:		Mobile nu	umber:			
(07) 1234 5678		(07) 1234 5678		0424 234	4 567			
Name of person who co	llected sample:			Time and	date coll	ectec	1:	
A Inspector				16:00	AM PM	23/	107/1	9
Street address of proper	rty where specime	en collected:						
39 Markets Road, Brisbo	ane							
Maturity of Sample:			1					5
_	Larvae	Adults	Other (spe	ecify)				
				.,				
Level of Infestation:				2				
High (>10)	Medium (5-1		L.					
Street address of Sourc	o Plook:	Not known						
Street address of Sourc	e BIOCK:	1000 14004		~~~~				
Source Block ID Numb								
Source Block IP Number								
		(as per Property Plan):						
Source Block Reference								
Source Block Reference		Signature			Date			
Source Block Reference Printed Name A Inspector					Date	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature	tor		Date			
Source Block Reference Printed Name A Inspector OFFICE USE ONLY		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number:		Signature A Inspect	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification: Identification: Identified by:		Signature A Inspect Time and date rece	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification: Identification: Identified by:		Signature A Inspect Time and date rece	tor		Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification: Identified by: Printed Name Business advised by:		Signature A Inspect Time and date rece	tor eived: [Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification: Identified by: Printed Name Business advised by:	e Code or Number	Signature A Inspect Time and date rece	tor eived: [Date 23	/04/		
Source Block Reference Printed Name A Inspector OFFICE USE ONLY Sample number: Identification: Identified by: Printed Name Business advised by: Post Post Fa	e Code or Number	Signature A Inspect Time and date rece	tor eived: [Date 23	/04/		

-121 (10/17) V1

QUEENSLAND FRUIT FLY RECOGNITION CARD



Left: Adult Queensland fruit



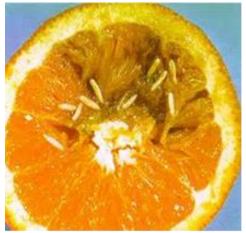
Left: Infested strawberry with large well developed larvae placed on the fruit surface_____



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)

ATTACHMENT 3