Work Instruction 10

Guidelines for conducting an inspection of fresh fruit and vegetables for fruit fly.

Revision Register

<table>
<thead>
<tr>
<th>Revision No</th>
<th>Date of Change</th>
<th>Section</th>
<th>Amendments</th>
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<td>1.0</td>
<td>30 October 2012</td>
<td>All</td>
<td>All</td>
<td>All new work instruction</td>
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<tr>
<td>2.0</td>
<td>14 Nov 2012</td>
<td>4, 6</td>
<td>Updated</td>
<td>inspection requirements</td>
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Authorised by: Strategy Leader, Plant Biosecurity Operations Date: 14 November 2012

Controlled: ☐ Uncontrolled: ☑

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1. **PURPOSE**

The purpose of this work instruction is to provide guidelines for conducting an inspection of fresh fruit and vegetables for Queensland Fruit Fly. This instruction does not encompass specific protocol inspections for other pests or disease that may be required by some States or Territories.

2. **SCOPE**

This work instruction covers the requirements for the inspection of fresh fruit and vegetables requiring certification for freedom from Queensland fruit fly and movement to another State or Territory within Australia.

3. **REFERENCES**

The Plant Diseases Act 1924  
WI -01 Completion of a Plant Health Assurance Certificate

4. **DEFINITIONS**

- **accredit** means to authorise nominated staff within a business to issue assurance certificates.
- **Assurance Certificate** means a Plant Health Assurance Certificate.
- **Authorised Inspection Person** means a person who has been trained in the detection and recognition of Queensland fruit fly and who is approved to conduct inspections on behalf of the Business by having their name and signature on a register of an Authorised Inspection Persons maintained by the Business.
- **Authorised Signatory** means a person whose name and specimen signature is provided as an Authorised Signatory on the Business’s Application for Accreditation.
- **Berry Fruit** includes blackberries, blueberries, boysenberries, gooseberries, grapes, loganberries, raspberries and strawberries
- **Business** means the legal entity responsible for the operation of the facility and Interstate Certification Assurance arrangement detailed in the Business’s Application for Accreditation.
- **Certification Assurance** means an arrangement approved by the Department which enables a business accredited under the arrangement to certify that certain quarantine requirements have been satisfied for the movement of fresh fruit and vegetables to interstate and/or intrastate markets.
  
  Note: An example of an approved Certification Assurance Arrangement is a Compliance Agreement, or the Interstate Certification Assurance (ICA) Scheme.
- **certified/certification** means covered by a valid Plant Health Assurance Certificate.
- **consignment** means a discrete quantity of plants transported to a single consignee at one time covered by a single PHAC.
Conducting an Inspection for Queensland Fruit Fly

end point inspection means the process by which a representative sample is drawn and inspected from the consignment prior to certification.

facility means a location where produce is assembled, inspected, securely stored, certified and dispatched.

Fruit fly means Queensland fruit fly (Bactrocera tryoni), Lesser Queensland fruit fly (Bactrocera neohumeralis) and Northern Territory fruit fly (Bactrocera aquilonis).

Interstate Certification Assurance means Interstate Certification Assurance, a system of Certification Assurance developed to meet the requirements of State and Territory governments for the certification of produce for interstate and intrastate quarantine purposes.

In-line inspection means the process by which a representative sample of packed product is drawn from a lot and inspected during the processing and packaging of the produce.

lot means a quantity of homogeneous product assembled for inspection at one place at one time. A lot could consist of product from one or more growers/blocks/properties.

package means the complete outer covering or container used to transport and market the units.

packed product means host produce in packages following grading and packing and ready for marketing.

Queensland fruit fly means all stages of the species Bactrocera tryoni or related species B. aquilonis and B. neohumeralis.

the Department means the NSW Department of Trade and Investment, Regional Infrastructure and Services – Office of Primary Industries.

unit means a single whole fruit or vegetable, or in the case of Berry Fruit means a collective unit (e.g. punnet or bunch).

5. GENERAL

This Work Instruction refers to key elements of the Interstate Certification Assurance Procedure Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly [ICA-47] that require further explanation to a task or activity. Persons responsible for this activity must ensure they refer to the relevant sections of the 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 fresh fruit and vegetables by one of two methods

(a) End-point inspection; or

(b) In-line inspection.
6.1.2 Inspection rate

The Authorised Inspection Person shall inspect fresh fruit and vegetables individually (as a unit) by either method listed above at a rate of 2% or 600 units, whichever is greater**.

** Berry fruit shall be inspected as a collective unit (punnet or in the case of grapes a bunch) at a rate of 2% and not as individual berries when conducting inspections. For example in a consignment of 3000 punnets, 2% of 3000 punnets = 60 punnets must be inspected.

6.1.3 Factors to be considered prior to taking a sample for inspection

An Authorised Inspection Person may be presented with a mixed consignment or lot from which they will be required to draw a sample for inspection.

Mixed consignments and lots present unique problems regarding homogeneity and require special consideration with regard to sampling.

The Authorised Inspection Person shall consider the following factors when making a decision on how to sample from a mixed consignment or lot:

- treatments (where known) that have been applied to control certain pests and disease;
- history of previous fruit fly detections (where known) associated with a particular production area, produce type or grower;
- the quantity of a particular fruit or vegetable within the lot or consignment; and
- the number of different growers/packers associated with the lot or consignment

6.1.4 Minimum and maximum sample rate

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

For produce other than Berry Fruit:

- where the Authorised Inspection Person identifies that the number of units in a consignment or lot is less than the required 600 units the Authorised Inspection Person shall examine all units in the consignment or lot; and
- where the Authorised Inspection Person identifies that the number of units in a consignment or lot is more than the required 600 units the Authorised Inspection Person shall examine no more than 600 units in the consignment or lot.

For Berry Fruit only: the Authorised Inspection Person shall inspect a minimum of 2% of units.

6.1.5 Sampling from punnets and bulk bins

- Bulk bins are considered as packages for the purpose of sampling.
- Berry Fruit shall be inspected as a collective unit (punnet or in the case of grapes a bunch) and not as individual berries when conducting inspections. For example 2% of punnets of blueberries or 2% of bunches of grapes must be inspected.

6.2 Sample selection from an in-line inspection

An In-line inspection shall involve the selection and inspection of packed produce drawn from a lot and inspected during the processing and packing of the produce.

The Authorised Inspection Person shall sample packages at the predetermined inspection rate from the packing line and move the packages to the inspection facility for examination.

The following is an example of how to sample produce during an In-line Inspection.
Example A – In-line 600 Unit Inspection

An Authorised Inspection Person is presented with 200 field bins of tomatoes from one grower (A. Smith) of which three consignments consisting of 450 cartons each are to be consigned. The Certification Controller of the packing shed advises the Authorised Inspection Person that the packing period to pack out that grower’s tomatoes will be 3 hours. The Authorised Inspection Person calculates the rate at which the samples are to be drawn from the processing line to obtain a 600 unit sample as follows:

The Authorised Inspection Person calculates:

- 3 hour packing period for 200 field bins from one grower (one lot)
- 600 units are to be drawn over a 3 hour packing period = 100 units per ½ hour
- unit count per carton of tomatoes = approximately 60 to 80 units
- a minimum of 2 cartons (final packaging) will need to be drawn every ½ hour from the processing line.

The Authorised Inspection Person examines 100% of each unit within each sample package until the required 100 units have been reached for each interval. The Authorised Inspection Person shall not examine more than 100 units at each interval.

Note: The sampling rate selected has provided sufficient time to fully inspect the units as they are drawn during each period.

6.3 Sample selection for end-point inspection

End point inspections are only carried out on consignments that have been finalised. The Authorised Inspection Person shall sample packages at the predetermined inspection rate from the consignment and move the packages to the inspection facility ready for examination.

The following is an example of how to sample produce for an End-point Inspection.

Example B – End-point 600 Unit Inspection

An Authorised Inspection Person is presented with a mixed consignment of produce. The consignment consists of 344 cartons and comprises:

- 72 cartons of tomatoes from grower/packer A. Smith;
- 56 cartons of rockmelons from grower/packer B. Brown;
- 144 cartons of button squash and 72 cartons of zucchini from grower/packer C. Blogs.

The Approved Inspection Person calculates that:

- Smith’s 72 cartons represent 21% of the consignment;
- B Brown’s 56 cartons represent 16% of the consignment;
- C Blogs’ 144 cartons of (button squash) represent 42% and 72 cartons of (zucchini) represent 21% of the consignment respectively.

The Authorised Inspection Person determines that the proportion of produce to be examined from each grower will be based on the percentage of each growers produce in the consignment.

The Authorised Inspection Person calculates the number of units to examine from each grower as follows:

The number of A. Smith’s tomatoes to examine is $600 \times 21\% = 126$ units

The number of B. Brown’s rockmelons to examine is $600 \times 16\% = 96$ units
The number of C Blogs’ button squash to examine is $600 \times 42\% = 252$ units, and the number of zucchini to examine is $600 \times 21\% = 126$ units.

The Authorised Inspection Person draws cartons at random from each grower until they have examined the required number of units. The Authorised Inspection Person ensures that at least one sample carton is taken from each grower.

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

The **Authorised Inspection Person** shall:

(a) move all sample packages (including bulk bins) to the inspection facility;

(b) record information on the *Fruit Fly Inspection Record* in accordance with section 7.6 of Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly* [ICA-47];

(c) place sample cartons (where possible) on the inspection bench;

(i) 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;

(d) visually examine the required number of units within each sample package for fruit fly.

(i) Whilst examining the produce the **Authorised Inspection Person** will rotate the unit so that 100% of the surface area is inspected. Particular attention shall be paid to areas that may provide shelter to fruit fly such as cracks, splits, bruises, rots and other blemishes. Special attention should also be given to any ‘sting marks’.

(ii) 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 fruit fly.

(iii) An **Authorised Inspection Person** may remove the peel/skin or cut produce that is being examined to investigate for the presence of fruit fly. All produce that has been peeled or cut must be discarded;

(e) place the sampled units back into the package, where applicable, until the sample package has been fully repacked;

(f) return the sample packages to the consignment or lot following the inspection;

(g) record information on the *Fruit Fly Inspection Record* (Attachment 1) in accordance with Section 7.3.4 of Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly* [ICA-47].

### 6.5 Suspect fruit fly detection

The **Authorised Inspection Person** shall immediately advise the Certification Controller of the detection of suspect fruit fly. The **Authorised Inspection Person** shall take a sample and reject and segregate all produce in the consignment or lot until the sample results are returned to the business in accordance with 7.4 of Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly* [ICA-47].

The **Authorised Inspection Person** shall determine by reference illustrations and photographs (refer Attachment 4 Identification of Queensland fruit fly) whether the sample is suspect Queensland fruit fly.
Should the **Authorised Inspection Person** determine the sample to be suspect fruit fly, the sample shall be submitted to the Department’s Plant Health Diagnostic Service Unit in accordance with section 7.4.3 of Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly* [ICA-47].

If the suspect fruit fly is subsequently confirmed not to be Queensland fruit fly by the **Authorised Inspection Person**, all rejected product that is held in the consignment or lot may be reconsidered for certification provided all requirements of ICA-47 have been met.

### 6.6 Sampling suspect fruit fly

All suspected fruit fly samples must be taken and submitted to the Department’s Plant Health Diagnostic Service Unit by an Authorised Inspection Person. Where possible an Authorised Inspection Person should take more than one sample.

The **Authorised Inspection Person** shall take each sample by:

(a) carefully retrieving the suspect fruit fly with an appropriate instrument i.e. brush, forceps or scalpel, to avoid damaging the suspect;

(b) placing the suspect fruit fly in a specimen bottle that contains an appropriate preservative material i.e. methylated spirits.

(i) 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. methylated spirits.

(c) completing a Insect Identification Request Form in accordance with section 7.4.4 of Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom of Queensland Fruit Fly* [ICA-47] (refer Attachment 3) for each sample taken; and

(d) placing the specimen bottle or produce (if applicable) along with completed Insect Identification Request form into a sealable plastic bag.

The **Authorised Inspection Person** shall forward the sample to the Plant Health Diagnostic Unit 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 the Plant Health Diagnostic Unit for identification.

### 6.7 Issuance of a plant Health Assurance Certificate

Following examination of the produce and when the **Authorised Inspection Person** is satisfied that all the conditions and restrictions associated with the produce described on the Fruit Fly Inspection Record have been met a Plant Health Assurance Certificate may be issued in accordance with Interstate Certification Assurance Operational Procedure *Inspection of Fresh Fruits and Vegetables for Freedom from Fruit Fly* [ICA-47] and *Guidelines for Completion of Plant Health Assurance Certificates* [ICA-WI-01].

### 7. ATTACHMENTS

<table>
<thead>
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<th>Attachment 1</th>
<th>Fruit Fly Inspection Record</th>
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<tr>
<td>Attachment 2</td>
<td>Fruit Fly Inspection Record – Completed Example</td>
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<tr>
<td>Attachment 3</td>
<td>Insect Identification Request form</td>
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<td>Attachment 4</td>
<td>Identification of Queensland fruit fly (reproduced from Qld DAFF)</td>
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# Fruit fly inspection Record

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**Name of Authorised Inspection Person:**  
PHAC No(s):  

**Inspection Type**  
- [ ] In-line  
- [ ] End-point  

**Name & Address of Grower and or Packer:**  
(if multiple, list in comments/findings column)  

**Notes:**  

**Produce Type:**  
(if multiple, list in comments/findings column)  

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<th>(List separately if multiple commodities)</th>
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<th>Number of Units</th>
<th>Total Number of Units</th>
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**Pass**  
**Fail**  
**Signature of Authorised Inspection Person:**  

*Actions resulting from a suspected detection of a quarantine pest*
Fruit fly inspection Record

Date of Inspection: 12/10/12

Place of Inspection: Glenrock packing shed
Buronga NSW

Name of Authorised Inspection Person: G. Green

PHAC No(s): 324543

Name & Address of Grower and or Packer:
W. Smith & Son “Glenrock” Buronga NSW 2456

Inspection Type
☑ In-line
☐ End-point

Notes:

Produce Type: Tomatoes

Total Number of Packages in Lot / Consignment: 1050

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Pass x Fail

Signature of Authorised Inspection Person: [Signature]

Actions resulting from a suspected detection of a quarantine pest

ATTACHMENT 2
INSECT IDENTIFICATION REQUEST

SERVICE REQUIRED

☐ Assess for suspect exotic pest  ☐ Monitoring  ☐ Identification  ☐ ID with management advice

AUTHORISATION

I understand there is a fee for insect identifications and I agree to accept the charges. Please call 1800 675 821 for current prices or further information.

Name (please print)

Signature

Date

YOUR DETAILS

Name

Company

Address

Postcode

Phone

Fax

Email

☐ Phone  ☐ Fax  ☐ Email (Please tick preferred method of receiving report)

WBS

(NSW DPI Staff only)

PROPERTY OWNER DETAILS (if different to above)

Name

Company

Address

Postcode

Phone

Fax

Email

SAMPLE DETAILS (please provide as much information as possible)

Date collected: Sample site e.g. under a log in orchard at 1 Brown Rd Browntown 2222

GPS Coordinates (decimal degrees preferred):

GPS System  ☐ WGS84  ☐ GDA94  ☐ Other

Describe the problem caused by the insect (if relevant)

Name the type of plant affected (if relevant)

Rate damage caused to plants  ☐ Low  ☐ Medium  ☐ High

Please send the completed form with sample to: Insect Enquiries, Orange Agricultural Institute, 1447 Forest Road, Orange NSW 2800.

Test results and findings may be provided to authorised staff and used for statistical, surveillance, extension, certification and regulatory purposes in accordance with Departmental policies. The information assists disease and residue control programs and underpins market access for agricultural products. The source of the information will remain confidential unless otherwise required by law or regulatory policies.
IDENTIFICATION OF QUEENSLAND FRUIT FLY

**Left:** Adult Queensland fruit fly

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

**Left:** Infested tomato with large well developed larvae.

**Left:** Infested citrus fruit with well developed larvae.

**Right:** Infested stone fruit with fruit fly larvae.

**Above:** Magnified section showing larvae of Queensland fruit fly.