

FOR INFORMATION

SWFSPP Steering Committee Annual Meeting 2020

Agenda Item 2.2

[last updated: 30 September 2020]

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Insect Trapping on Returning Livestock Export Vessels 2019-20**RECOMMENDATION**

1. That the SWFSPP Steering Committee **NOTE**
The interception data provided on insect trapping on returning livestock export vessels for the period 1 October 2019 to 21 September 2020.

BACKGROUND

2. As part of OWS surveillance at Australian ports, staff from the Department of Agriculture, Water and the Environment (DAWE) conduct inspections of returning livestock export vessels and the insectocutors that vessel masters are required to operate on-board. The trap collections from these insectocutors are collected and submitted to entomologists from the Department for identification. A variety of dead insects are collected from the insectocutors, but flies from the family Calliphoridae are the primary target for reporting purposes.

DISCUSSION

3. From 1 October 2019 until 21 September 2020, 21 vessel visits resulted in flies of the family Calliphoridae being detected and identified in the insectocutors on-board returning livestock export vessels. The interception results can be summarised as follows:
 - No screw worm flies were detected in the insectocutors of any livestock vessels entering Australia during the reporting period.
 - There was one detection of *Chrysomya albiceps* which is currently considered exotic to Australia but some authors consider that this species is synonymous with *Chrysomya rufifacies* which is present in Australia.
 - The majority of the interceptions of Calliphoridae during the period were of *Chrysomya megacephala*, *Chrysomya saffrana*, *Calliphora* spp. and *Lucilia* spp.

FINANCIAL IMPLICATIONS

4. Not relevant at this stage.

CONSULTATION/COMMUNICATION

5. Internal communication commenced within the Department in January/February 2016 to require biosecurity officers to record the numbers and locations of insectocutors on-board returning livestock export vessels. The inspecting officers were instructed to ask the chief or master of the vessel for this information and to enter it into the comments field of VMS (now MARS) or on a spreadsheet for future reporting. The recording of this information remains more problematic than first thought with most vessels not having this information recorded in the relevant databases at this stage. Manual checks and trace backs were again required to find and record this information for the purposes of this report.

A review of the “Undertake a Livestock Vessel Inspection Work Instruction” was conducted in 2018 and the following is a summary of the relevant changes to the work instruction that were implemented on the 9th of October 2018:

- **Insectocutors**
 - a. Positioning of units in location to enable easy access and catch not affected by obstructions or air vents
 - b. Bulbs to be replaced with new ones every 18-24 months
 - c. *Insectocutors to be activated 24 hours after departing the last international port en-route to an Australian port (with allowance to switch off during deck cleaning for safety reasons) [instead of 48 hours before entering Australian waters]*
 - d. *All insectocutors to be sighted by biosecurity officers on each inspection to verify compliance*
 - e. *Collection of insectocutor samples to be:*
 - i. *on arrival in an Australian port;*
 - ii. *at termination of livestock loading and prior to vessel departure from Australian port;*
 - iii. *24 hours after leaving Australian territorial sea (12 nm)*
 - f. *Collection of insectocutor samples are to be separated per deck*
 - g. *Recording of the number of operational insectocutors per deck.*

NEXT STEPS/ACTIONS

6. None required.

**Attachment A: Returning Livestock Export Vessel Insectocutor Interception Data
- 1 October 2019 to 21 September 2020**

Bottle Id	Incident Date	Port	State	Vessel Name	Number of insectocutors	SWF detected (y/n)	Calliphoridae findings	Comments
314311	31/10/2019	Darwin	NT	OCEAN DROVER	9	N	<i>Chrysomya megacephala</i>	1 adult male. No other Calliphoridae. Also Rhiniidae.
410251	25/11/2019	Geelong	VIC	ANNA MARIA	10	N	<i>Calliphora</i> sp.	
348258	26/11/2019	Fremantle	WA	NINE EAGLE	5	N	<i>Chrysomya megacephala</i> x 1 female	Lygaeidae, Muscidae.
344701	27/12/2019	Fremantle	WA	JAWAN	8	N	<i>Chrysomya megacephala</i>	1 female. Also Muscidae.
373554	8/1/2020	Townsville	QLD	OCEAN SHEARER		N	<i>Chrysomya megacephala</i> x 2, <i>Chrysomya saffrana</i> x 2	Also Syrphidae, Milichiidae, Coleoptera.
263244	22/1/2020	Darwin	NT	GL KAI HOU	5	N	<i>Chrysomya megacephala</i> , <i>Lucilia</i> sp.	Deck A. 1 adult male. Also Muscidae, Milichiidae, Tabanidae, Lepidoptera, Dolichopodidae.
373696	24/1/2020	Townsville	QLD	YANGTZE HARMONY	8	N	<i>Chrysomya megacephala</i>	x 4 long dead specimens. Also Formicidae, Ptinidae, Culicidae, Milichiidae, Muscidae, Lepidoptera, Noctuidae.
301994	6/2/2020	Townsville	QLD	GALLOWAY EXPRESS	5	N	1 x <i>Chrysomya megacephala</i>	Also Muscidae.
210383	12/2/2020	Darwin	NT	FINOLA	4	N	1 x <i>Lucilia</i> sp.	Muscidae.
373659	17/2/2020	Townsville	QLD	YANGTZE HARMONY	8	N	<i>Chrysomya megacephala</i> x 2	Milichiidae, Sphingidae, Muscidae.
371236	28/2/2020	Brisbane	QLD	ANGUS EXPRESS	5	N	<i>Chrysomya</i> sp. x 1	Not <i>C. bezziana</i> . Chironomidae, Lepidoptera, Diptera.
210385	2/3/2020	Darwin	NT	NINE EAGLE	5	N	2 x <i>Chrysomya megacephala</i>	Also, Tephritidae, Sarcophagidae, Cicadellidae, Muscidae, Tabanidae, Ephydriidae, Chironomidae, Phoridae.
348267	14/4/2020	Fremantle	WA	BAHIJAH	7	N	Calliphoridae (parts)	Also Muscidae, Coelopidae.
310843	21/4/2020	Broome	WA	GUDALI EXPRESS	5	N	<i>Calliphora</i> sp.	Also Muscidae, Phoridae.
343836	23/4/2020	Brisbane	QLD	ANGUS EXPRESS	5	N	<i>Chrysomya megacephala</i> x 4	Muscidae, Lepidoptera.
263532	24/4/2020	Darwin	NT	NINE EAGLE	5	N	1 x <i>Chrysomya saffrana</i>	Also Muscidae, Lepidoptera.
368897	26/4/2020	Fremantle	WA	AL MESSILAH	11	N	<i>Chrysomya albiceps</i>	Currently actionable / exotic but some consider this to be a synonym of <i>Chrysomya rufifacies</i> which is present in Australia. Also Muscidae.
310848	25/5/2020	Broome	WA	GUDALI EXPRESS	5	N	<i>Chrysomya megacephala</i>	Also Ptinidae, Muscidae, Dytiscidae, Coelopidae.
416853	26/5/2020	Darwin	NT	DEVON EXPRESS	4	N	<i>Lucilia</i> sp.	Libellulidae, Acrididae, Phoridae, Dolichopodidae, Tephritidae, Muscidae, Chironomidae, Platystomatidae.
362505	8/8/2020	Darwin	NT	NINE EAGLE	5	N	<i>Lucilia</i> sp. x 2	Also Lepidoptera, Tachinidae, Ichneumonidae.
317703	12/8/2020	Broome	WA	GUDALI EXPRESS	5	N	<i>Chrysomya megacephala</i> x 1 female	Coelopidae, Muscidae.

FEEDBACK

Q1 My organisations needs and expectations of the SWFSPP are being met.

Strongly agree **Agree** Undecided Disagree Strongly disagree

Comments:

Q2 The outputs of the SWFSPP such as the brochure, poster and annual report in the Animal Health in Australia report are credible and robust.

Strongly agree **Agree** Undecided Disagree Strongly disagree

Comments:

Q3 The SWFSPP satisfies the surveillance data and reporting needs of my organisation (e.g. contributes to and/or supports policy development and decision making).

Strongly agree **Agree** Undecided Disagree Strongly disagree

Comments:

Q4 Animal Health Australia is managing the Screw Worm Fly Surveillance and Preparedness Program effectively/satisfactorily.

Strongly agree **Agree** Undecided Disagree Strongly disagree

Comments: