

FOR INFORMATION

SWFSPP Steering Committee Annual Meeting 2023

Agenda Item 2.2

Last updated: 4 September 2023

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Screw-worm Fly Surveillance and Preparedness Program Report 2022-23**RECOMMENDATION**

1. That the SWFSPP Steering Committee NOTE the program report and performance for 2022-23 and provide any strategic direction for the upcoming year.

BACKGROUND

2. Animal Health Australia manages the SWFSPP in consultation with a committee of industry and government stakeholders. The program aims to detect an incursion early enough to ensure a high likelihood of success of an eradication program.
3. The objectives of the SWFSPP are to:
 - a. Conduct targeted surveillance for SWF nationally
 - b. Promote awareness to animal health stakeholders of the risk to Australia from SWF and an understanding of how to support the surveillance system
 - c. Monitor Australia's SWF entomology capability and capacity and provide training if required
 - d. Provide a national forum/committee to monitor and address Australia's SWF risk profile and incursion preparedness.
4. From AHA Annual Operating Plan for 2022-23 the key outcome for the year was: early detection of potential SWF incursion and support national capability to mount an emergency response.

DISCUSSION**5. Financial Summary**

The total budget for the SWFSPP as approved through the business plan and AHA Annual Operating Plan for 2022-23 year was \$199,589. At the end of June 2023, the total expenditure was within budget with an overall expenditure of \$178,514 (Figure 1). The 2022-23 expenditure was impacted by prior year accruals for state and territory services for fly trapping. There was also some over expenditure due to the face-to-face meeting and entomology workshop held in Darwin in 2022.

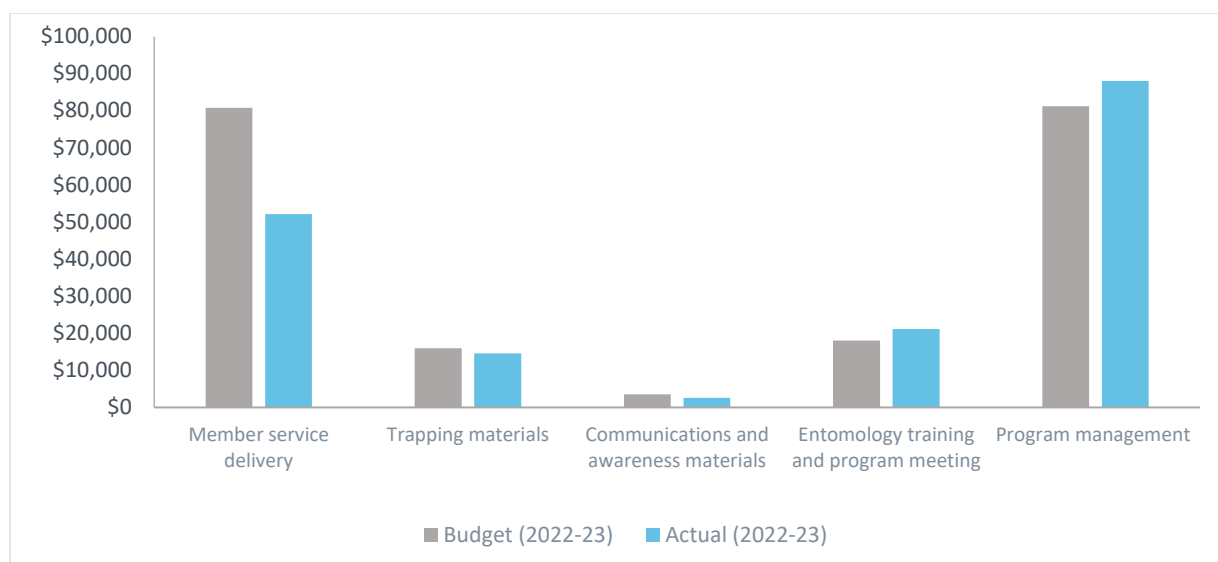


Figure 1 Project financial summary 2022-23

Note the figure for member service delivery is affected by prior and current year accruals.

Table 1 Deliverables and performance

Key output/deliverable 2022-23	Target	Outcome	Comment
Fly trapping data reported to NAHIS	Quarterly (NAHIS reporting schedule)	Mostly complete for 2022-23	Details of fly trapping data in Appendix A. Some Qld Apr-Jun data outstanding.
Myiasis monitoring data reported to NAHIS	Quarterly (NAHIS reporting schedule)	Complete for 2022-23	Details of myiasis data in Appendix A.
Myiasis collection kits distributed to target audience and extension work undertaken	Ongoing	Complete for 2022-23	No outstanding requirements. See coordinator reports for details on passive surveillance.
SWF web pages maintained	Ongoing	Complete for 2022-23	AHA program website maintained.
Communication awareness materials maintained (currency of content; in stock) available and in-use by target audience.	Ongoing	Complete for 2022-23	Poster, brochure, and magnet are all up to date. Redevelopment of the video is planned for early 2024. Discussion under agenda item 6.1 and 6.2 on future needs, adjustments and distribution of materials.
Entomology training workshop delivered.	September 2022	Complete	Entomology workshop was held in September 2022, the day before the committee meeting. Feedback received was positive. The next workshop is planned to be held in 2025.
Entomology reference materials	Ongoing	On track	A stocktake of available reference specimens is included as an appendix to the business

Key output/deliverable 2022-23	Target	Outcome	Comment
reviewed and acquired/republished as required.			plan. Any required updates or requirements for reference materials will be discussed under agenda item 5.1.
Steering Committee updated on international SWF situation including distribution, outbreaks, research and development, other matters of potential importance for Australia	Presented to annual meeting.	On track	To be discussed under agenda item 3.2. Study led by NAQS to determine the efficacy of the insectocutors, with lucitraps with bezzilure as a control in a feedlot in PNG. Study to be discussed under agenda item 7.1.
Steering Committee updated on domestic SWF situation including research and development, minor use permits and other matters of potential importance for Australia	Presented to annual meeting.	On track	Key achievement in the 2021-2022 year was the finalisation of minor use permits to extend several products for use for OWS. These permits remain in force with the APVMA through to 31 October 2026 https://permits.apvma.gov.au/PER90398.PDF Domestic agent-based modelling software continues to be available to run simulation scenarios through AHA, however the climatic data within the model is aging and may require updating to include more contemporary observations and account for the increased climate variability.

Appendix A: Monitoring and Performance Plan

Appendix A

Table 1 Schedule of SWF trapping plans and number of trapping events conducted by quarter, July 2022 to June 2023 (as at 1 Sep 2023)

Fly trap location	Site code	Agency	No. traps	Planned trapping fq/yr	Total trapping events planned	Number of trapping events conducted					
						Jul-Sep 2022	Oct-Dec 2022	Jan-Mar 2023	Apr-Jun 2023	Total events complete	% complete
Broome	BRO	DPIRD	3	12	36	4	4	9	9	26	72.2
Fremantle	FRE	DPIRD	3	12	36	5	6	6	7	24	66.7
Geraldton	GER	DPIRD	3	12	36	8	5	9	12	34	89.5
Wyndham	WND	DPIRD	4	9	36	4	6	2	6	18	50
Darwin wharf	EAW	NT DPIF	1	12	12	3	2	4	3	12	100
Darwin other	Various	NT DPIF	4	8	32	9	9	9	9	36	112.5
Townsville	Various	Qld DAF	6	6	36	6	6	6	0	18	50
Northern Peninsula Area	Various	NAQS	15	4	60	15	15	0	0	30	50
Total			39	NA	284	54	53	45	46	198	69.7

Table 2 Schedule of targeted myiasis plans and number of inspections conducted by quarter, July 2022 to June 2023 (as at 1 Sep 2023)

Monitoring site	Agency	Survey fq/yr	Min no. animals inspected/survey	Total inspections planned	Jul-Sep 2022		Oct-Dec 2022		Jan-Mar 2023		Apr-Jun 2023		Total animals inspected
					# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	
Northern Territory													
Garrihiya, East Arnhem Land, NAMP sentinel herd T080	NAQS	12	10-15 cattle	120-180	3	30	3	30	2	20	0	0	80
Gunbalanya, West Arnhem Land, NAMP sentinel herd T121	NAQS	12	10-15 cattle	120-180	3	67	1	13	2	21	0	0	101
Darwin Periphery Berrimah Export Yards BEY, Adelaide River Bridge Creek Export Yards BCEY, Coomalie Holding Depot COOM, Santavan Export yards SEY	NT DPIR	12	50 cattle	600	4	513	0	0	0	0	2	123	636
NAMP Sentinel Herds Douglas Daly Research Station T122, Coomalie Holding Depot COOM, CPRS 108	NT DPIR	12	10-15 cattle	120-180	13	357	18	313	19	381	19	381	1,432
Top end region (northern NT) – various locations	NAQS	5	10-50 various feral animals	50-250	6	97	4	43	4	41	0	0	181
Queensland													

Monitoring site	Agency	Survey fq/yr	Min no. animals inspected/survey	Total inspections planned	Jul-Sep 2022		Oct-Dec 2022		Jan-Mar 2023		Apr-Jun 2023		Total animals inspected
					# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	
Torres Strait Islands and Northern Peninsula Area	NAQS	1	10-50 various domestic animals	10-50	-	-	-	-	-	-	-	-	-
York Downs , Coen, NAMP sentinel herd Q145	NAQS	12	10-15 cattle	120-180	4	54	3	49	3	38	0	0	141
Bertiehaugh , Coen, NAMP sentinel herd Q379	NAQS	12	10-15 cattle	120-180	3	23	0	0	0	0	0	0	23
Cape York Peninsula (Far North Queensland) – various locations	NAQS	5	10-50 various feral animals	50-250	-	-	-	-	-	-	-	-	-
Western Australia													
Broome Feedlot/Export Depot and sentinel herd (W131)	DPIRD	10 (excl. Jan, Feb)	50 head (if av. wound rate 8%)	500	-	-	-	-	-	-	-	-	-
Kalumburu (W012)	NAQS	2	20-30 cattle	40-60	0	0	1	60	0	0	0	0	60
Kimberly region (northern Western Australia) – various regions	NAQS	2	10-50 various feral animals	20-100	-	-	-	-	-	-	-	-	-
Total		97		1,870-2,710	36	1,141	30	508	30	501	21	504	2654

Table 3 Disease investigations (general surveillance) for Old World and New World screw-worm fly as listed in the National Notifiable Disease Investigation project of NAHIS, July 2022 to June 2023

Species	Date	Location	Finding	Investigation	Outcome
Cattle	26/08/2022	QBT : Barcardine	<i>Lucilia</i> sp.	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Sheep	30/09/2022	W4340 : Katanning	NO_DX	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Cattle	14/10/2022	QWZ : Western Downs	<i>Lucilia</i> sp.	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Dog	24/10/2022	QBB : Brisbane	<i>Lucilia</i> sp.	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Sheep	19/04/2023	D : Darwin and Gulf	-	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Sheep	02/05/2023	QLR : Longreach	<i>Chrysomya</i> <i>rufifacies</i> and <i>Lucilia cuprina</i>	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Sheep	13/06/2023	QLR : Longreach	<i>Lucilia</i> sp.	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative

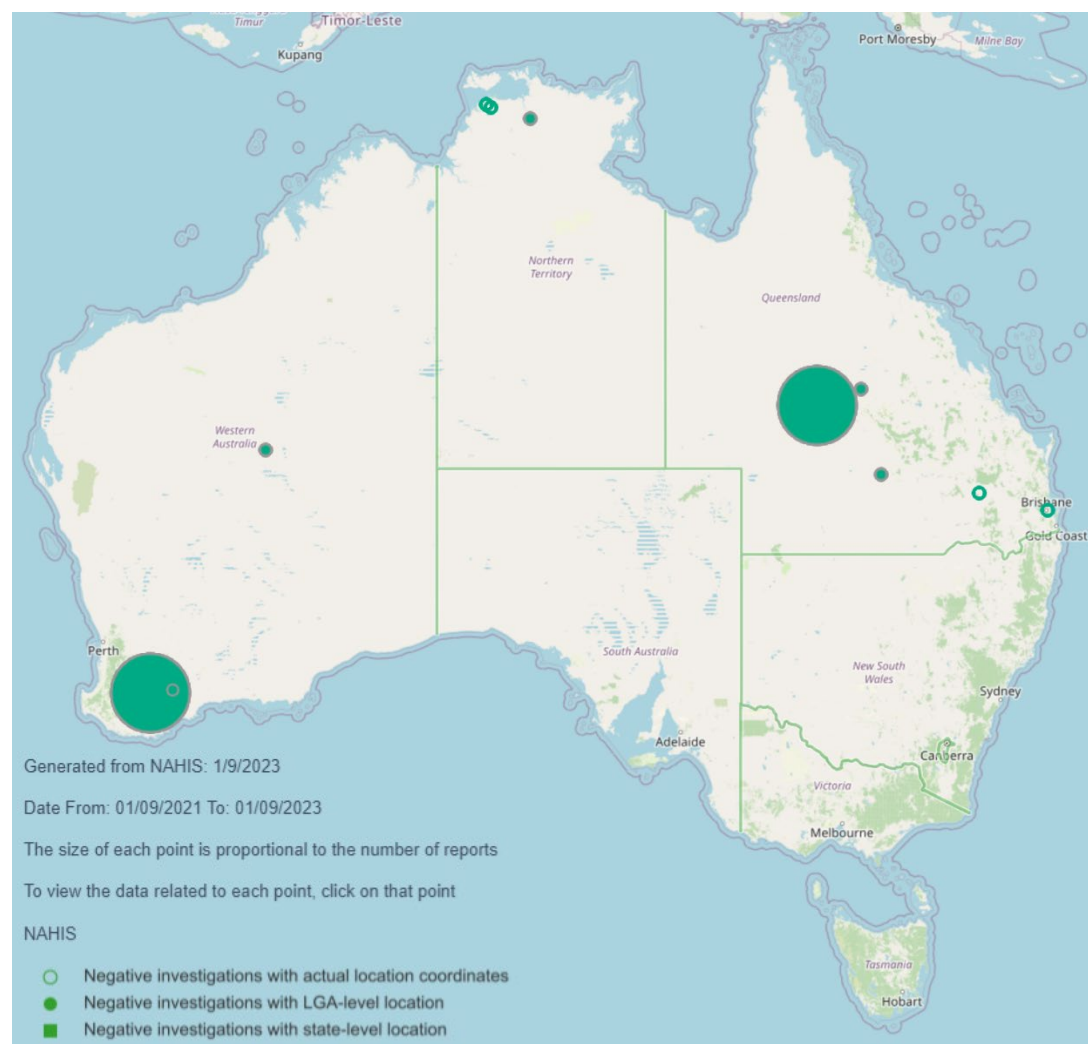


Figure 2 Location of investigations of Old World and New World screw-worm fly as listed in the National Notifiable Disease Investigation project of NAHIS, July 2022 to June 2023

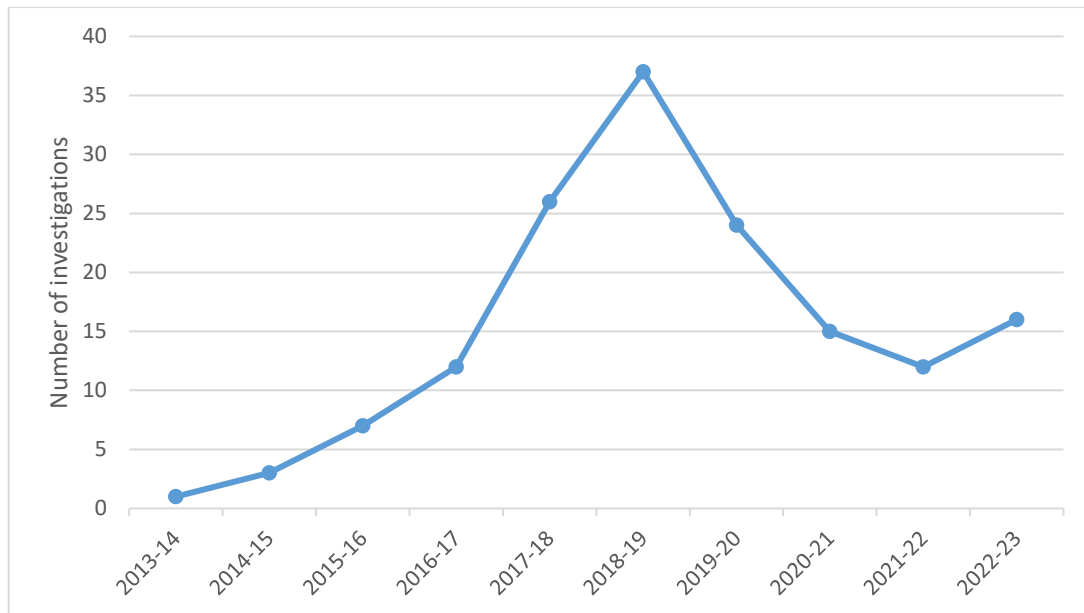


Figure 3 Number of screw-worm fly (Old World and/or New World) investigations reported in NAHIS for the period 1 July 2013 to 30 June 2023.

Note: one investigation typically results in the exclusion of both Old World and New World SWF (i.e. a count of 2)