

FOR INFORMATION

SWFSPP Steering Committee Annual Meeting 2022

Agenda Item 1.2

Last updated: 20 September 2022

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Screw-worm Fly Surveillance and Preparedness Program Report 2021-22**RECOMMENDATION**

1. That the SWFSPP Steering Committee NOTE the program report and performance for 2021-22 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 2021-22 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 2021-22 year was \$190,278. At the end of June 2021, the total expenditure was within budget with an overall expenditure of \$175,983 (Figure 1). The 2021-22 expenditure was impacted by prior year accruals for state and territory services for fly trapping. The entomology workshop was held over until early in the 2022-23 financial year and the prior year underspend will be used to support this in the current financial year.

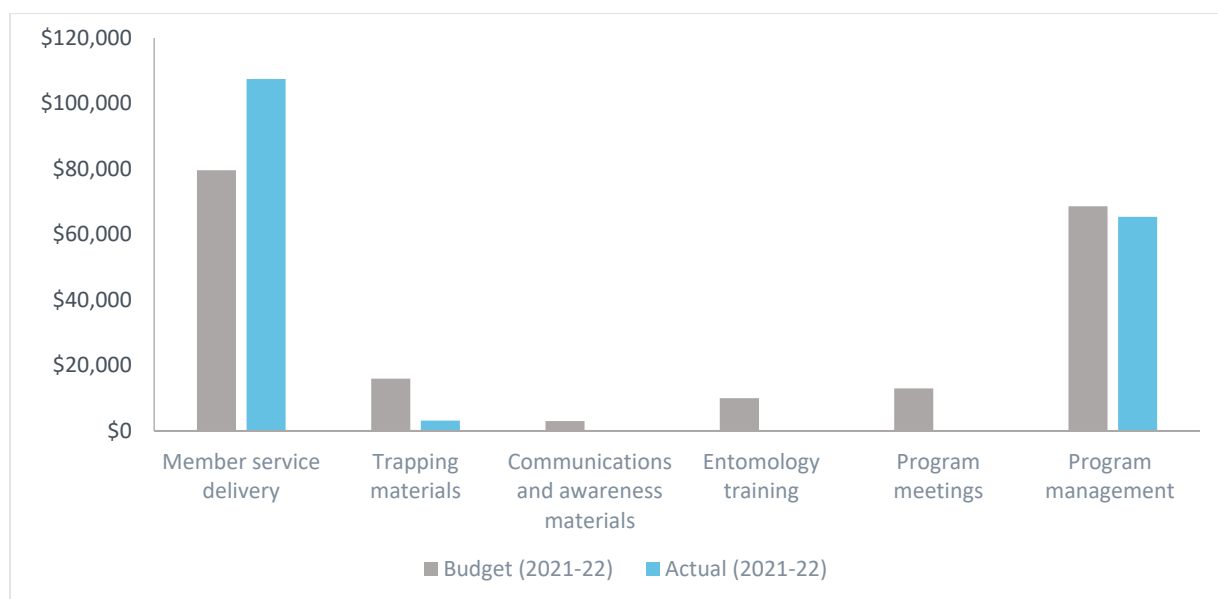


Figure 1 Project financial summary 2021-22

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

Table 1 Deliverables and performance

Key output/deliverable 2021-22	Target	Outcome	Comment
Fly trapping data reported to NAHIS	Quarterly (NAHIS reporting schedule)	Complete for 2021-22	Details of fly trapping data in Appendix A.
Myiasis monitoring data reported to NAHIS	Quarterly (NAHIS reporting schedule)	Complete for 2021-22	Details of myiasis data in Appendix A.
Myiasis collection kits distributed to target audience and extension work undertaken	Ongoing	Complete for 2021-22	No outstanding requirements. See coordinator reports for details on passive surveillance.
SWF web pages maintained	Ongoing	Complete for 2021-22	AHA program website maintained. Work to update caption on high resolution images is planned for late 2022.
Communication awareness materials maintained (currency of content; in stock) available and in-use by target audience.	Ongoing	Complete for 2021-22	Revised collateral has been produced. Completed poster, brochure, and magnet. Discussion under agenda item 6.1 on future needs, adjustments and distribution of materials.
Entomology training workshop delivered.	September 2022	In progress	Workshop deferred due to COVID restrictions. Annual meeting to include a discussion around specimens available, facilitation, attendees and prior materials.
Entomology reference materials reviewed	Ongoing	On track	Entomology reference materials will be used during the September workshop. Any

Key output/deliverable 2021-22	Target	Outcome	Comment
and acquired/republished as required.			required supplements or required updates and supplementary resources identified will be considered as they arise. In conjunction with planning for the workshop, a refreshed stocktake of available reference specimens was undertaken and a collated list has been included as an appendix to the business plan.
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 4.1. Study led by NAQS, to trial to determine the efficacy of the insectocutors, with lucitraps with bezzilure as a control in a feedlot in PNG.
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 2021 to June 2022 (as at 14 Sep 2022)

Fly trap location	Site code	Agency	No. traps	Planned trapping fq/yr	Total trapping events planned	Number of trapping events conducted					
						Jul-Sep 2021	Oct-Dec 2021	Jan-Mar 2022	Apr-Jun 2022	Total events complete	% complete
Broome	BRO	DPIRD	3	12	36	6	9	0	4	19	52.8
Fremantle	FRE	DPIRD	3	12	36	0	6	6	3	15	41.7
Geraldton	GER	DPIRD	3	12	36	14	12	9	7	42	117
Wyndham	WND	DPIRD	4	9	36	12	6	6	2	26	72.3
Darwin wharf	EAW	NT DPIF	1	12	12	2	3	3	3	11	91.7
Darwin other	Various	NT DPIF	4	8	32	6	9	9	9	33	103
Townsville	Various	Qld DAF	6	6	36	12	6	12	6	36	100
Northern Peninsula Area	Various	NAQS	15	4	60	15	15	15	15	60	100
Total			39	NA	284	67	66	60	49	242	85.2

Table 2 Schedule of targeted myiasis plans and number of inspections conducted by quarter, July 2021 to June 2022 (as at 14 Sep 2022)

Monitoring site	Agency	Survey fq/yr	Min no. animals inspected/survey	Total inspections planned	Jul-Sep 2021		Oct-Dec 2021		Jan-Mar 2022		Apr-Jun 2022		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	2	20	0	0	3	24	3	25	69
Gunbalanya, West Arnhem Land, NAMP sentinel herd T121	NAQS	12	10-15 cattle	120-180	4	58	0	0	2	31	2	16	105
Darwin Periphery Berrimah Export Yards BEY, Adelaide River Bridge Creek Export Yards BCEY, Coomalie Holding Depot COOM	NT DPIR	12	50 cattle	600	2	540	3	626	3	579	3	417	2,162
NAMP Sentinel Herds Douglas Daly Research Station 107, Beatrice Hill 108.	NT DPIR	12	10-15 cattle	120-180	17	396	13	312	13	312	13	312	1,332
Top end region (northern NT) – various locations	NAQS	5	10-50 various feral animals	50-250	-	-	-	-	-	-	-	-	-
Queensland													
Torres Strait Islands and Northern Peninsula Area	NAQS	1	10-50 various domestic animals	10-50	-	-	-	-	-	-	-	-	-

Monitoring site	Agency	Survey fq/yr	Min no. animals inspected/survey	Total inspections planned	Jul-Sep 2021		Oct-Dec 2021		Jan-Mar 2022		Apr-Jun 2022		Total animals inspected
					# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	# myiasis surveys	Total # animals	
York Downs , Coen, NAMP sentinel herd Q145	NAQS	12	10-15 cattle	120-180	3	39	0	0	3	43	3	40	122
Bertiehaugh , Coen, NAMP sentinel herd Q379	NAQS	12	10-15 cattle	120-180	3	15	0	0	2	18	3	24	57
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	30	5,399	9	1,338	1	25	7	1,682	8,444
Kalumburu (W012)	NAQS	2	20-30 cattle	40-60	0	0	0	0	0	0	1	54	54
Kimberly region (northern Western Australia) – various regions	NAQS	2	10-50 various feral animals	20-100	-	-	-	-	-	-	-	-	-
Total		97		1,870-2,710	61	6,467	25	2,276	27	1,032	35	2,570	12,345

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 2020 to June 2021

Species	Date	Location	Finding	Investigation	Outcome
Cattle	20/09/2021	W9250 : Wiluna	PHY	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Cattle	21/10/2021	D: Darwin and Gulf	Sinusitis and metritis	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Sheep	17/11/2021	W4480 : Kent	MET	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative
Dog	26/02/2022	D : Darwin and Gulf	Exclusion	<i>Cochliomyia hominivorax</i> and <i>Chrysomya bezziana</i>	Negative

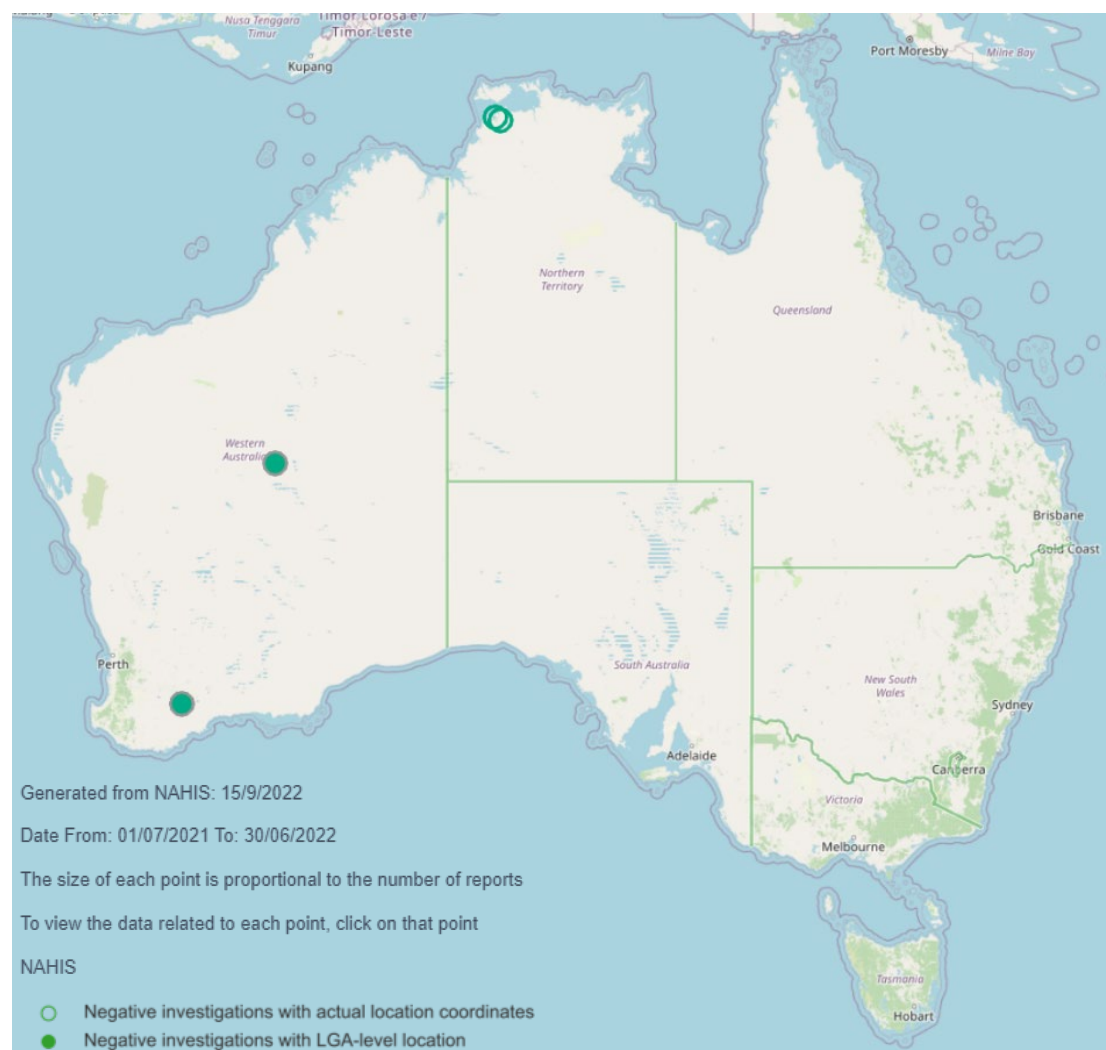


Figure 2 Location of investigations of Old World and New World screw-worm fly as listed in the National Notifiable Disease Investigation project of NAHIS, July 2021 to June 2022

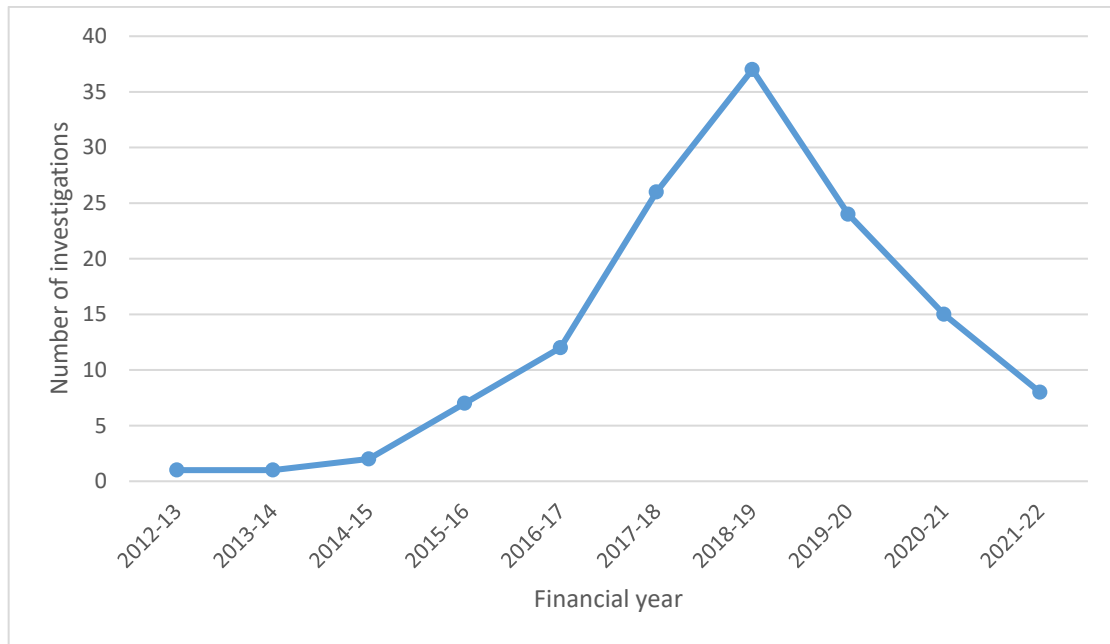


Figure 3 Number of screw-worm fly (Old World and/or New World) investigations reported in NAHIS for the period 1 July 2011 to 30 June 2022.

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