

FOR INFORMATION AND DECISION

NAMP Steering Committee Annual Meeting

24 September 2021

Agenda Item 2.0

Prepared by I Langstaff and M Nye

NAMP MANAGEMENT REPORT 2021**RECOMMENDATION**

That the NAMP Steering Committee:

1. NOTES the performance of the program for 2020-21
2. NOTES the activity plan of the program for 2021-22
3. SUPPORTS the forecast budget for 2022-23
4. PROVIDES STRATEGIC DIRECTION on any changes required to the program.

BACKGROUND

1. The NAMP Technical Committee (TC) met from the 24-25 and 31st August 2021:
 - a. Technical reporting was concluded for the 2020-21 arbovirus season
 - b. Monitoring plans were finalized for the 2021-22 arbovirus season
 - c. Monitoring plans were discussed for the 2022-23 arbovirus season to guide the development of the budget.
 - d. Prospective monitoring strategy was reviewed.

DISCUSSION

2. Virology and entomology results for the 2020-21 arbovirus transmission season are shown graphically in Figures 1-5 (Appendix A), numerically in Table 1, Table 2 and Table 3 (Appendix A) and are explained by exception in NAMP coordinators' commentary from their annual reports (Appendix A).
3. Virology and entomology plans for the 2021-22 arbovirus transmission season are shown graphically in Figure 6 and Figure 7 (Appendix B). Plans are mostly unchanged from the 2020-21 season.
4. Performance of the NAMP, measured by reference to target outcomes, is shown at Appendix C.
5. Details of bluetongue virus transmission zone changes undertaken in 2020-21 are shown in Appendix D.
6. Feedback was sought from the NAMP Technical Committee members on:
 - a. Outputs of the NAMP, including the annual NAMP Report and the online BTV zone map, are credible and robust
 - b. The NAMP satisfies the surveillance data and reporting needs of my organization.All feedback was positive (Appendix E).
7. The DAWE paper to the Technical Committee, Requirements of Current Trading Partners and For Access to New Markets, is provided for in Appendix F. Advice from the Technical Committee indicates that the current monitoring plan (sites, sampling and testing) should remain similar in 2022-23. The DAWE representative advised the Committee that future

increased monitoring of the Simbu group, BEF and EHD may need to be conducted in order to secure North America and Mexico market access and to maintain market access as trade varies over time.

FINANCIAL IMPLICATIONS

8. The balance of expenditure for 2020-21 is shown in Table 7, Appendix G. Total expenditure is within budget (4% or \$70K under budget).
9. With consideration to individual cost centres: management costs were over-budget 12% (\$24K) due to xxx
10. The budgeted expenditure for 2021-22 is shown Table 7, Appendix G. Total budgeted expenditure is as per agreed in the NAMP Business Plan 2021-22 and AHA AOP 2021-22 (\$1,500,228).
11. The draft budget for 2022-23 is shown in shown Table 7, Appendix G (\$1,535,431). Budget items are expected to increase by a CPI adjustment (1%).

CONSULTATION/COMMUNICATION

12. The NAMP Technical Committee was consulted on this paper at the annual Technical Committee meeting from the 24th, 25th and 31st of August 2021.

NEXT STEPS/ACTIONS

13. The supported budget for 2022-23 and any changes required to the program will be incorporated into a final Business Plan for 2022-23 for agreement with members by email in March 2022.

Appendix A:

- Maps showing monitoring results 2020-21
- Activity data summary by AGENCY: 2020-21
- Annual coordinator reports of NAMP monitoring 2020-21

Appendix B: Maps showing planned virology and entomology locations 2021-22

Appendix C: Measures of performance 2020-21

Appendix D: Bluetongue virus transmission zone boundary changes in 2020-21 season

Appendix E: Feedback on NAMP program for 2020-21

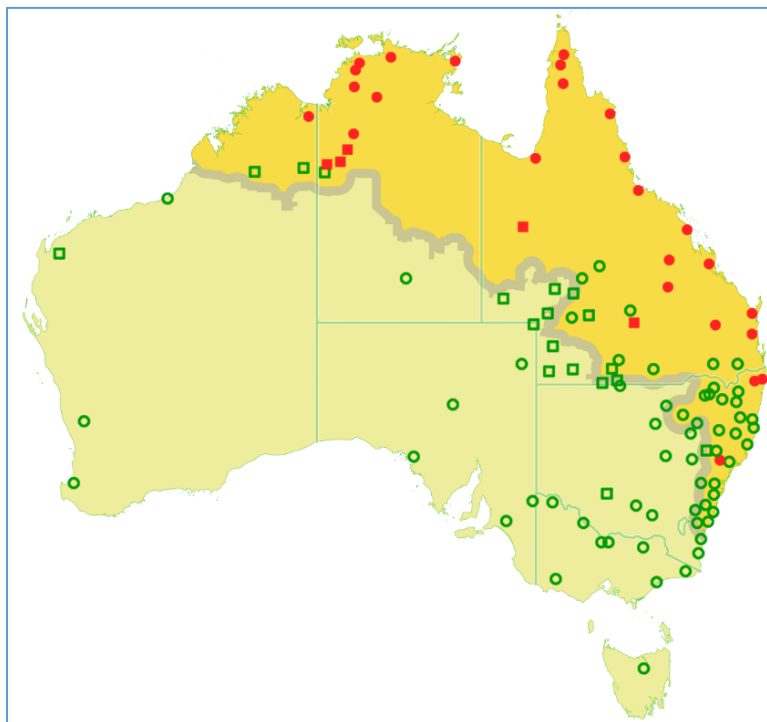
Appendix F: 2020 NAMP TC DAWE paper - Requirements of Current Trading Partners and For Access to New Markets,

Appendix G: Budget and expenditure summary

APPENDIX A:

Maps showing monitoring results 2020-21

*Figure 1 Distribution of NAMP cattle herds tested for **bluetongue virus** (sentinel and serosurvey), showing serological test results by colour (red - positive green – negative), 2020-21 arbovirus transmission season*



*Figure 2 Distribution of NAMP cattle herds tested for **Akabane virus** (sentinel and serosurvey), showing serological test results by colour (red - positive green – negative), 2020-21 arbovirus transmission season*

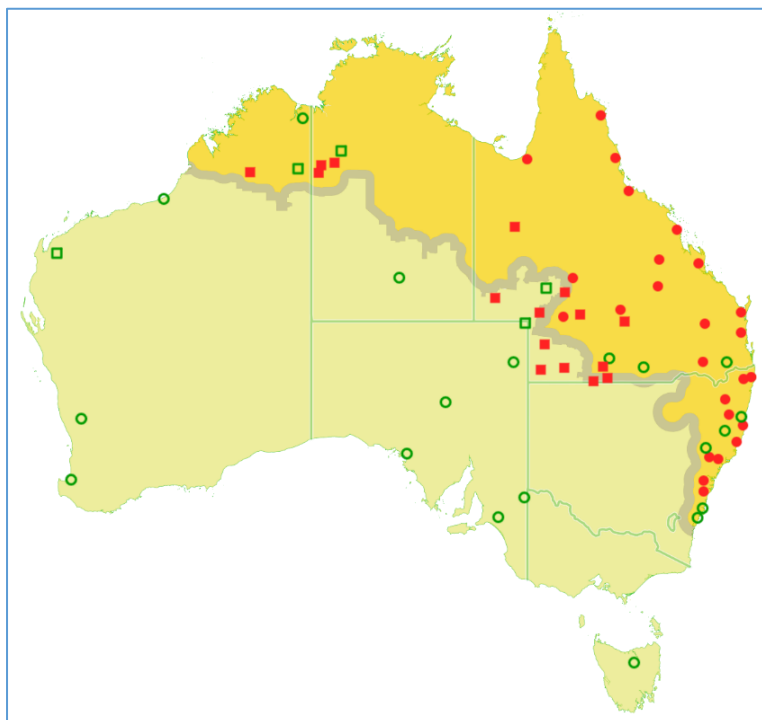


Figure 3 Distribution of NAMP cattle herds tested for **bovine ephemeral fever virus** (sentinel and serosurvey), showing serological test results by colour (red - positive green – negative), 2020-21 arbovirus transmission season. **Note:** Not all NAMP herds are tested for BEF and the map only shows results from those herds tested within the NAMP.

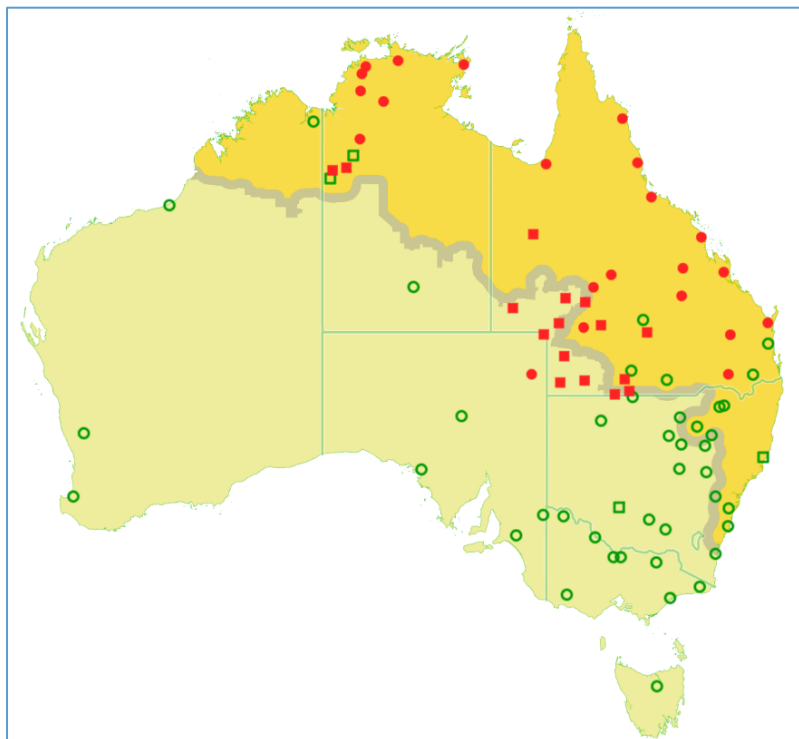
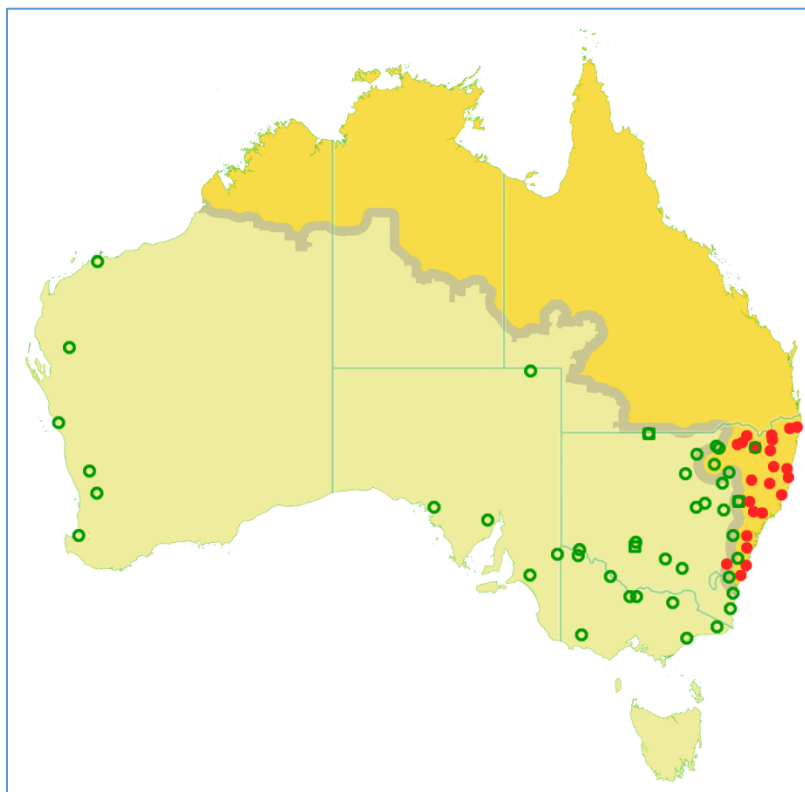


Figure 4 Distribution of NAMP cattle herds tested for **Simbu virus** (sentinel and serosurvey), showing serological test results by colour (red - positive green – negative), 2020-21 arbovirus transmission season



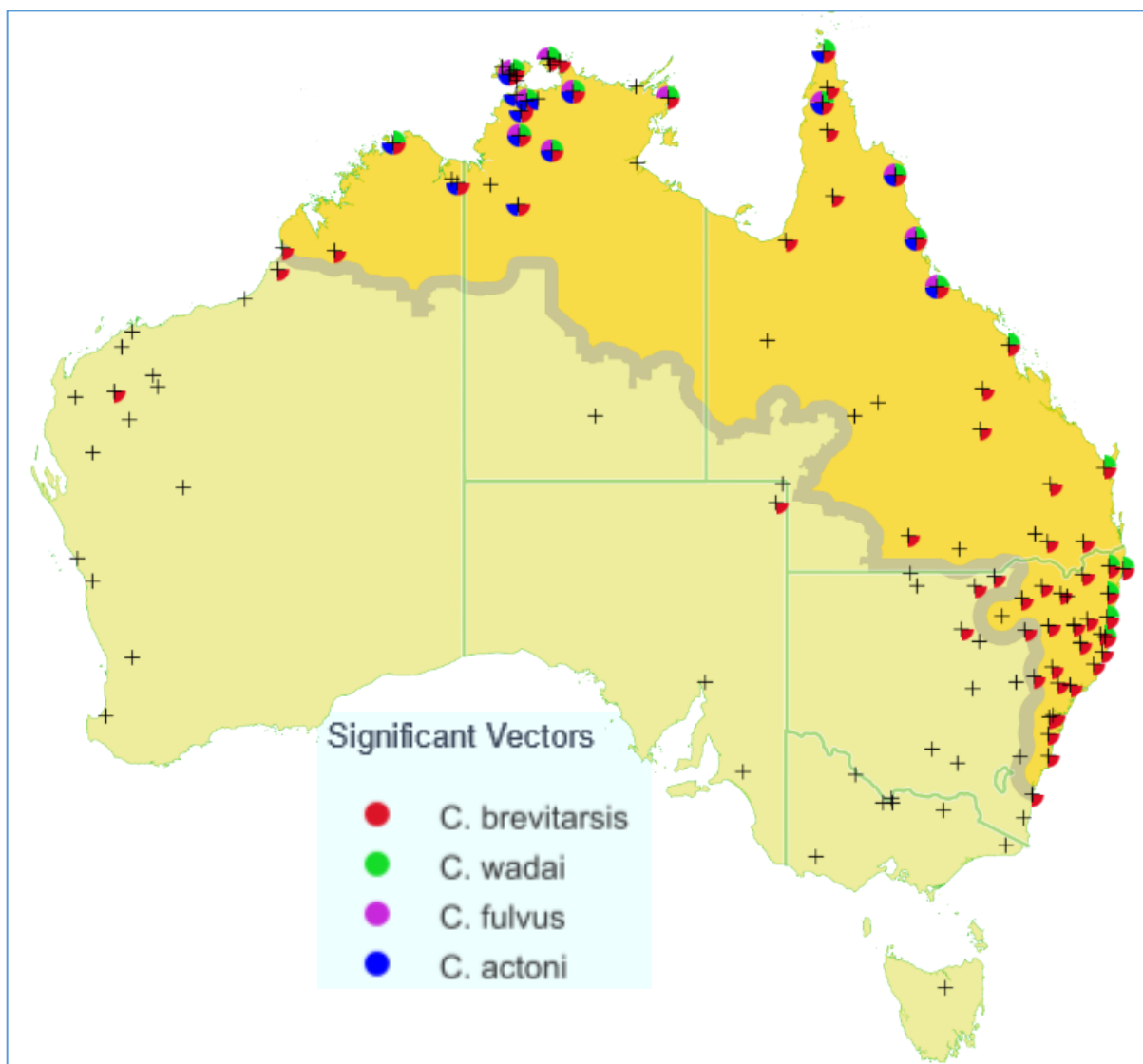


Figure 5 Distribution of NAMP entomology sampling sites and significant vectors detected, 2020-21 arbovirus transmission season

Bluetongue Zone Map

- Bluetongue Virus Transmission Zone (includes Buffer Area)
- Buffer Area of Transmission Zone
- Bluetongue Virus Transmission-Free Zone

Activity data summary by AGENCY: 2020-21

These summaries are dynamically generated from NAMP-Info and provide a summary of activities conducted in the 2020 – 21 arbovirus transmission season.

Date of page generation | Percentage of sampling year completed

Percentage of activity reported may exceed 100% when activities undertaken at budget or replacement sites exceed those budgeted for at the beginning of the sampling year, or when data on activities for supplementary sites are included.

SEROLOGY: SENTINEL AND SEROSURVEY ACTIVITIES

Table 1 Numbers of sampling visits (listed against the agency recorded as 'collector'). Performance less than 90% highlighted.

Agency	Budgeted visits to budget sites	Visits made to official budget, replacement or additional sites	Actual visits / budgeted visits (%)
NAQS			
NSW GOV			
NT GOV			
QLD GOV			
SA GOV			
TAS GOV			
VIC GOV			
WA GOV			

Table 2 Total numbers of animals sampled (listed against the agency recorded as 'collector'). Performance less than 90% highlighted.

Agency	Animals to be sampled at budget sites	Animals sampled at official budget, replacement or additional sites	Actual samples / budgeted samples (%)
NAQS			
NSW GOV			
NT GOV			
QLD GOV			
SA GOV			
TAS GOV			
VIC GOV			
WA GOV			

ENTOMOLOGY

Table 3 Numbers of collections (listed against the agency recorded as 'farmer allowance'). Performance less than 90% highlighted.

Agency	Budgeted visits to budget sites	Visits made to official budget, replacement or additional sites	Visits made to B+R+A sites/ (budgeted visits + A visits) (%)
NAQS			
NSW GOV			
NT GOV			
QLD GOV			
SA GOV			
TAS GOV			
VIC GOV			
WA GOV			

Annual coordinator reports of NAMP monitoring 2020-21

NAQS (SKYE FRUEAN)

NEW SOUTH WALES (DEB FINLAISON)

NORTHERN TERRITORY (LORNA MELVILLE)

QUEENSLAND (BRUCE HILL)

SOUTH AUSTRALIA (TRENT SCHOLZ)

TASMANIA (DEBBIE GRULL)

VICTORIA (KAREN MOORE)

WESTERN AUSTRALIA (MARION SEYMOUR)

APPENDIX B Maps showing planned virology and entomology locations 2021-22

Figure 6 Map of planned virology for the 2021-22 arbovirus transmission season.

Virus Budget Sites (WFS)

- Sentinel - budget
- Sentinel - replacement
- Sentinel - additional
- Serosurvey - budget
- Serosurvey - replacement
- Serosurvey - additional

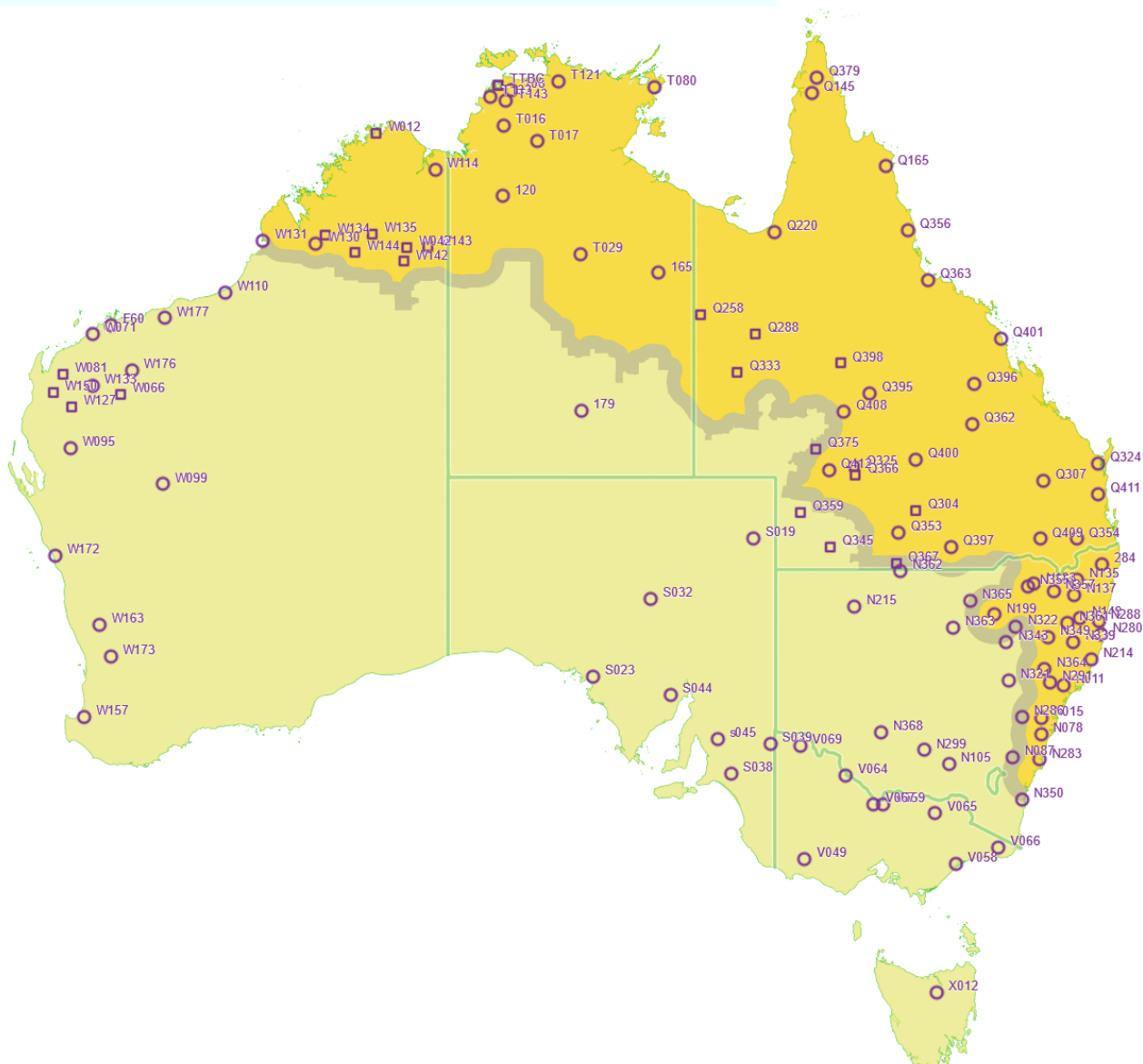
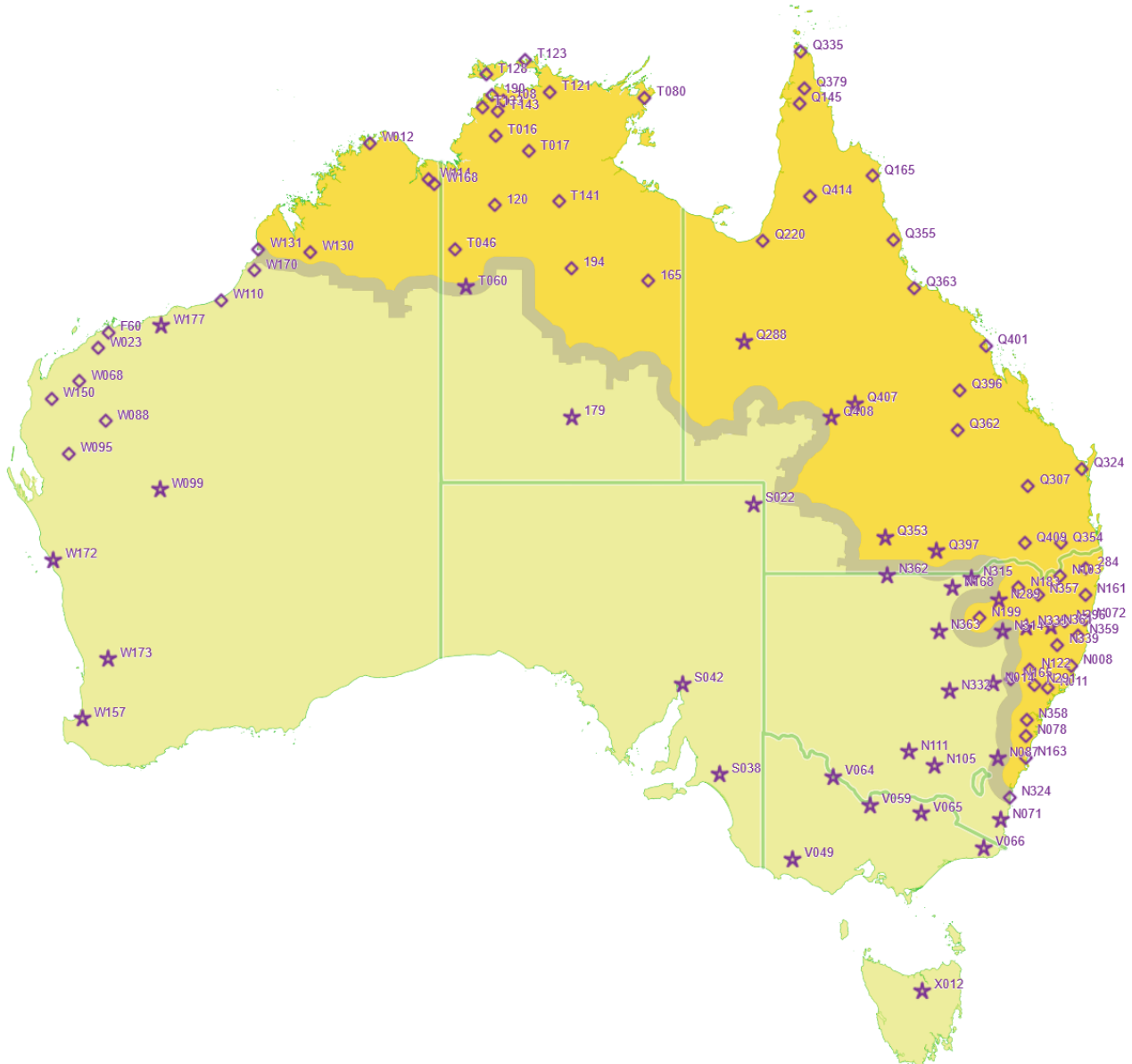


Figure 7 Map of planned entomology for the 2021-22 arbovirus transmission season.

Entomology Budget Sites (WFS)

- ★ Vector free - budget
- ★ Vector free - replacement



APPENDIX C: Measures of performance

Table 4 Measures of performance of NAMP during 2020-21 by reference to agreed target outcomes and performance indicators (Business Plan 2020-21)

Target outcome <i>The measurable benefits that are sought from undertaking a project.</i>	Performance indicator <i>The measure that will be used to indicate the level of achievement of the target outcome(s).</i>	Measure in 2020-21 <i>The outputs for measuring the level of performance.</i>
Australian Government Department of Agriculture Water and the Environment (DAWE)		
- Provides a technical basis for export certification for Australian livestock and germplasm to meet importing country arbovirus conditions. - Provides a technical basis for negotiation of import health protocols for countries requiring import conditions for arboviruses. - Provides information in support of Australia's animal health status enabling accurate reporting to the World Organization for Animal Health (OIE). - Support exotic disease preparedness by implementing effective surveillance systems for arboviruses.	- Bluetongue free zone accurately predicts areas where viral transmission does not occur. - NAMP program accepted by importing countries as an effective arbovirus surveillance system. - Records bluetongue virus types circulating in Australia, records changes in the epidemiology of bluetongue viruses observed in Australia. - Understanding of the epidemiology of arboviruses in Australia.	- The BTV Transmission Zone boundary updated in a timely manner. No changes were made to the BTV zone in the 2020-21 arbovirus season in response to serological evidence of BTV transmission: (Appendix E). - A data analysis project was conducted in 2020-21 by NSW DPI to determine if the BTV transmission zone is suitable for defining the limits of for epizootic hemorrhagic disease virus transmission. This project followed a discussion led by DAWE on surveillance options for EHDV. - The NAMP continued additional monitoring at 3 sites in Victoria (initiated in 2017-18) to detect if the epidemiology of bluetongue in the BTV transmission-free zone changes. - Bluetongue virus typing occurred to determine BTV types circulating in Australia – types 1, 5, 7, 15, 16 and 21.
Livestock exporters		
Satisfied information needs of livestock exporters (buyers and agents) on the distribution of bluetongue, bovine ephemeral fever and Akabane disease.	The confidence exporters have in Australian regions, reported by NAMP to be free of bluetongue, Akabane or bovine ephemeral fever i.e. the confidence exporters have to market livestock to countries concerned about Australia's arbovirus status. NB: some of the countries concerned about bluetongue are not actually free of this virus e.g. Israel).	- An online interactive BTV zoning map was maintained throughout 2020-21 and was made publicly available to allow exporters to review buying areas. - The measures listed for the DAWE also indirectly supported the needs of livestock exporters.

Target outcome <i>The measurable benefits that are sought from undertaking a project.</i>	Performance indicator <i>The measure that will be used to indicate the level of achievement of the target outcome(s).</i>	Measure in 2020-21 <i>The outputs for measuring the level of performance.</i>
Livestock producers		
Satisfied information needs of livestock producers on the distribution of bluetongue, bovine ephemeral fever and Akabane disease.	• The confidence livestock producers have in the zone map: temporal and spatial data points. • The confidence livestock producers have in early detection of changes to the distribution. • Market access to bluetongue sensitive markets maintained.	• An annual report was published in January 2021. • A BTV transmission zone map was maintained throughout 2020-21 and made publicly available to allow producers to make management decisions and inform them on the distribution of arboviruses. • The measures listed for the DAWE also indirectly supported the needs of livestock producers including through maintaining market access.
State and territory governments		
Satisfied information needs of state and territory governments to assess the risk of bluetongue, bovine ephemeral fever and Akabane disease occurrence and advise their stakeholders. To enable accurate property of origin certification.	• Governments have details of geographical distribution of viruses and vectors and their temporal variation. • Governments received updates of new incursions of exotic strains of virus or exotic species of <i>Culicoides</i> and notification of any extraordinary epidemiological events. • Governments have up-to-date vector map (e.g. quarterly) and incursions of new species are reported.	The measures listed above for the DAWE also supported the needs of state and territory governments in determining areas eligible for export and testing protocols required. In addition: • A database of BEF and AKA virus occurrence was maintained throughout 2020-21 to provide information on their distribution. • Timely notification changes to BTV status in Australia supported the needs of state and territory governments.

APPENDIX D: Bluetongue virus transmission zone boundary changes 2020-21 transmission season

APPENDIX E: Feedback of NAMP program for 2020-21

Table 5: Outputs of the NAMP, including the annual NAMP Report and the online BTV zone map, are credible and robust

Jurisdiction	Answer	Comment
NAQS		
NSW		
NT		
Qld		
SA		
Tas.		
Vic.		
WA		
DAWE Animal Biosecurity Branch		

Table 6: The NAMP satisfies the surveillance data and reporting needs of my organisation

Jurisdiction	Answer	Comment
NAQS		
NSW		
NT		
Qld		
SA		
Tas.		
Vic.		
WA		
DAWE Animal Biosecurity Branch		

APPENDIX F: 2021 NAMP TC DAWE PAPER - Requirements of Current Trading Partners and For Access to New Markets,

APPENDIX G: Budget and expenditure summary

Table 7 Budget and expenditure of NAMP

Expenditure Item	Actual 2018-19	Actual 2019-20	Budget 2020-21	Actual 2020-21 ^c	Budget 2021-22 (Business Plan)	Proposed Budget 2022-23 (1% CPI ¹)
Program management and administration	226,459 ^a	221,940	195,082	219,508	207,575	209,651
NAMP-Info Management (database)	39,547	39,953	33,162	30,491	51,360	51,874
Entomology and virology monitoring subtotal	1,079,593	1,036,483	1,121,085	1,114,805	1,164,537	1,176,182
Contingency for Additional Monitoring (5%)	0	0	56,054	0	38,226	58,809
Entomology and virology monitoring total	1,079,593	1,036,483	1,177,139	1,114,805	1,202,763	1,234,991
Annual Report	1,314	1,882	3,012	2,107	3,042	3,072
Meeting Expenses	19,524	16,376	20,670	3,340	21,877	22,096
Reference Entomology	4,470	9,170	13,476	9,150	13,611	13,747
Total / Balance of Expenditure	\$1,370,907	\$1,325,804	\$1,442,541	\$1,379,401	\$1,500,228	\$1,535,431

Notes to budget and expenditure table – all figures are exclusive of GST.

a. Includes consultant fees.

b. Reference entomology is a contracted service for preparation of material for the NAMP reference collection (specimen slide mounting).

c. Figures include accruals for 2020-21.

¹ Consistent with AHA subscriptions increase AHA Operating Plan 2021-22