

FOR INFORMATION

NAMP Technical Committee Annual Meeting 2022

Agenda Item 3.

Last updated: 16 August 2022

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WA VIROLOGY REPORT

RECOMMENDATION

1. That the NAMP Technical Committee NOTE:
 - a. **NAMP surveillance for arboviruses during the 2021 22 season in Western Australia**

BACKGROUND

2. *WA undertakes surveillance for BTV, Akabane, Bovine Ephemeral Fever and Simbu viruses through sentinel and opportune sero-surveillance of cattle through-out the cattle rearing areas of WA.*
3. *In northern WA the majority of sites are to validate the BTV zone boundary. In the south there are five agricultural sites to support evidence of absence. And in the north two sites in the eastern Kimberley to assist in early detection of an incursion of a new serotype of BTV into Australia or WA.*
4. *Typically, WA has good participation in the NAMP program, especially where local veterinary officers are providing additional livestock disease and health support to the pastoralists.*
5. *DPIRD has had several different veterinary officers servicing the Kimberley over the last two years which has decreased some capacity to complete all budget sites but enabled some new connections to be made.*

DISCUSSION

6. *Seasonal conditions for the entire WA grazing area were favorable in the last season. This has enabled some Pilbara properties to restock after several years of dry conditions.*
7. *An additional site near Esperance in the southwest was recruited and added to the evidence of absence of arboviruses in southern WA.*
8. *NAMP surveillance did not detect BTV in areas outside the BTV zone.*
9. *NAMP surveillance did detect BTV in the properties that define the Kimberley zone along the southern boundary of pastoral properties and at one property northeast of Broome but within 100km from property boundary to Broome.*
10. *Consequently, the BTV zone remained stable in 2021 22 in WA.*
11. *The detections of BTV were at Carlton Hill sentinel site Australia A most consistent with serotype BTV1 & BTV16, Kimberley serosurvey sites most consistent with BTV16 & BTV21 and at Kalumburu serosurvey site identified as Maylasia A2 BTV23 (last seen in Australia in 1989)*
12. *Akabane was only detected in the Kimberley within the BTV zone*
13. *Bovine Ephemeral Fever was only detected at the Kimberley sentinel site. No clinical signs were reported from southern areas of the state.*
14. *Simbu virus monitoring for the Gascoyne and southern WA was all negative.*

FINANCIAL IMPLICATIONS

15. *The overall activity budget spend will be under the budgeted amount. This results from both repeat sentinel sites not managing all collections 5/6 and 3/4, two Pilbara sites that were destocked and replaced with serosurvey collections in the vicinity. There is still one Pilbara sentinel site to be collected this season and two Kimberley serosurvey sites and one sentinel site to be collected. Plans are in place to make these collections in the next two months as the properties are mustered.*

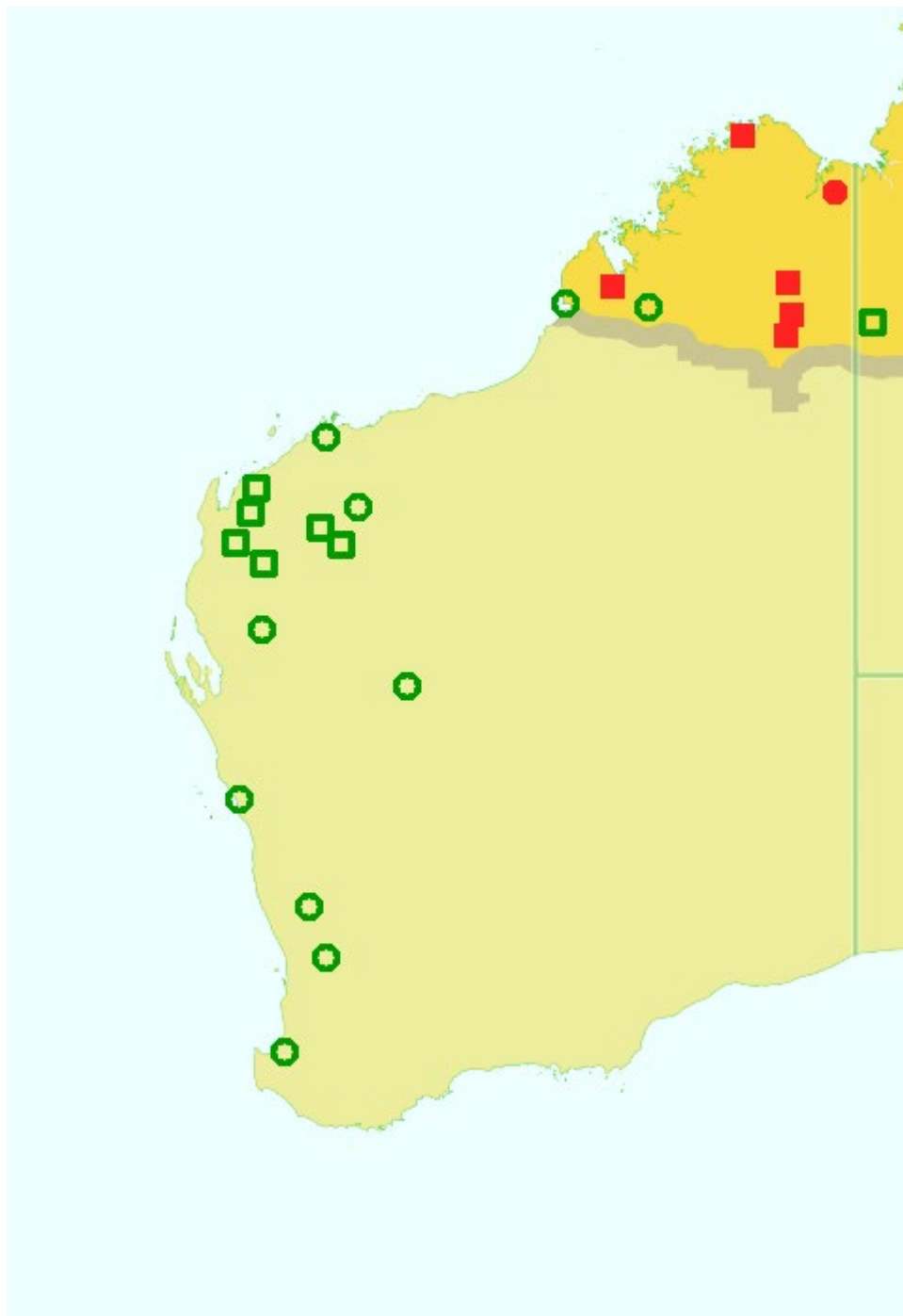
NEXT STEPS/ACTIONS

16. *WA DPIRD proposes to continue with the same budgeted sites for 2022 23. These sites are meeting the need of the program to provide evidence supporting the BTV zone boundary. The BTV zone boundary enables an important live export trade in cattle, sheep and genetic material from WA.*

The map displays the western coastline of Australia. Four waterholes are marked with green circles and labeled: W172 (top left), W163 (center), W173 (center right), and W157 (bottom left). A scale bar at the bottom left indicates 200 km. Interactive controls on the left include a date range selector (01/07/2021 to 09/08/2022), buttons for 'View Legend', 'Export PNG', and 'Reset Layers', and zoom in (+) and zoom out (-) buttons.

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Meeting paper

Attachment B: NAMP BTV surveillance 2021 22



Attachment C: NAMP SIM surveillance 2021 22

