



Department of
Primary Industries and
Regional Development

National Arbovirus Monitoring Program

Taiwan Bureau of Animal &
Plant Inspection Quarantine
June 2018

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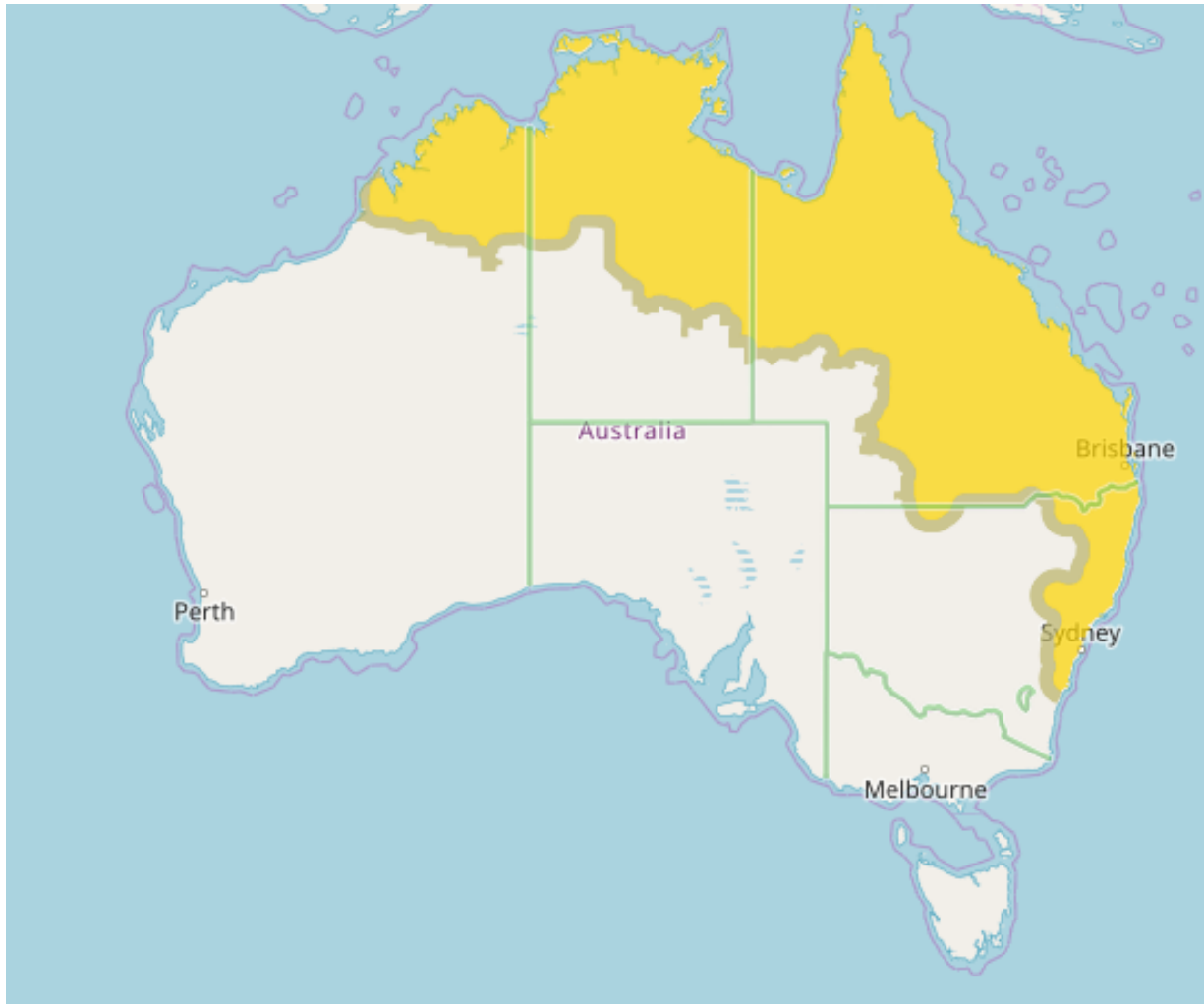


National Arbovirus Monitoring Program (NAMP)

Objectives of the program:

- Market access – to facilitate the export of live cattle, sheep and goats, and ruminant genetic material, to countries with concerns about bluetongue, Akabane, Aino and bovine ephemeral fever (BEF) viruses.
- Bluetongue early warning – to detect incursions of exotic strains of bluetongue virus (BTV) and vectors (Culicoides species biting midges) into Australia by surveillance of the northern BTV epidemic area.
- Risk management – to detect changes in the seasonal distribution in Australia of endemic bluetongue, Akabane and BEF viruses and their vectors, to support livestock exporters.

Australian Blue tongue zones June 2018

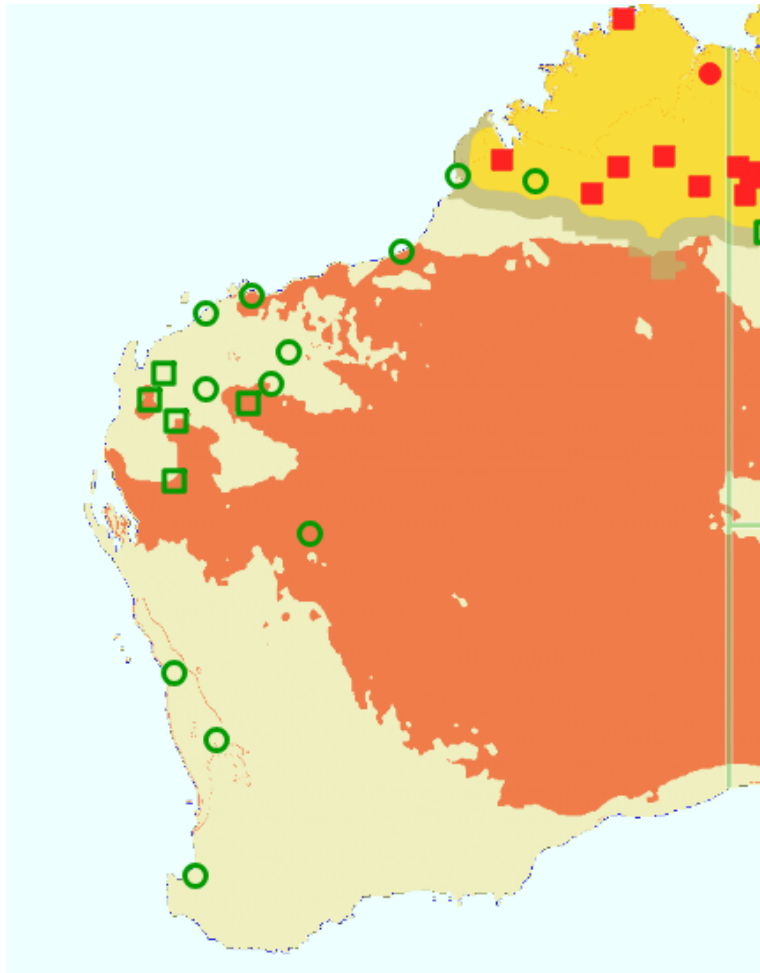


Blue tongue surveillance in WA

1. NAMP data is gathered throughout Australia by

- Serological monitoring of cattle in sentinel herds
 - Establish early summer (pre spread period)
 - Tag and sample 8 – 12 month old homebred cattle
 - Re sample identified cattle winter (post spread period)
- Strategic serological surveys of other cattle herds (serosurveys)
 - Opportune sampling additional homebred 8 -18 month old cattle
 - Increased along boundary of Transmission zone
- Trapping of insect vectors
 - LED Light traps

NAMP Sites in WA



Kimberley –

- Tropical

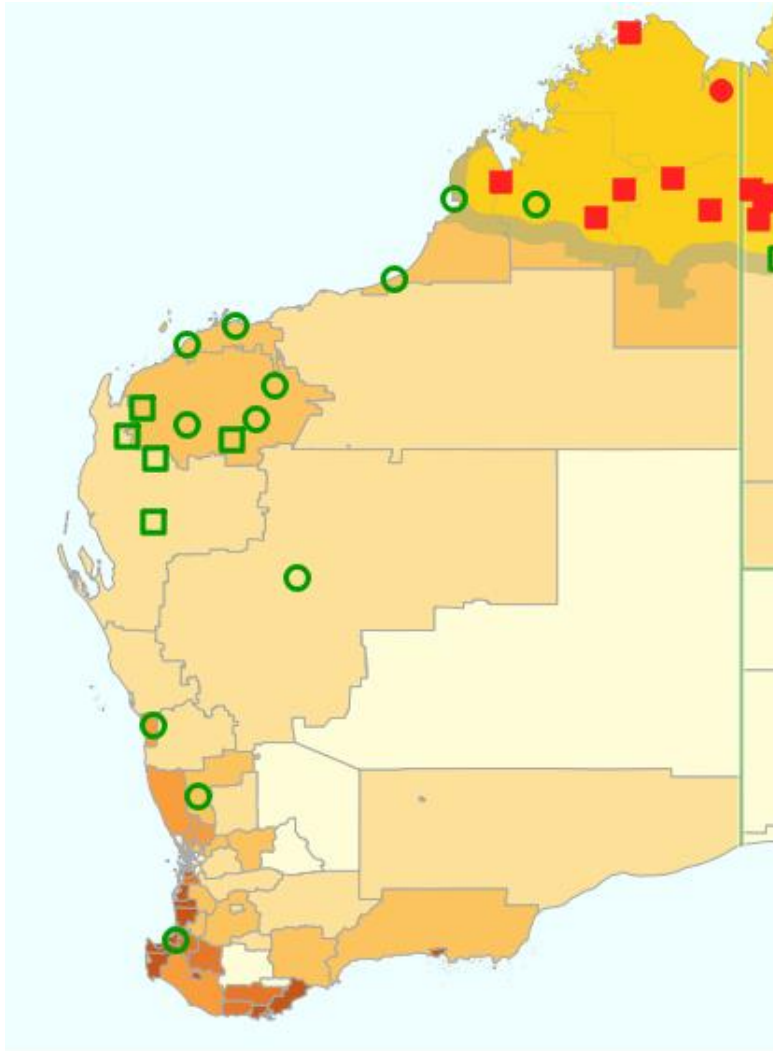
Pilbara/ Gascoyne –

- Coastal Sub-Tropical
- Central Desert

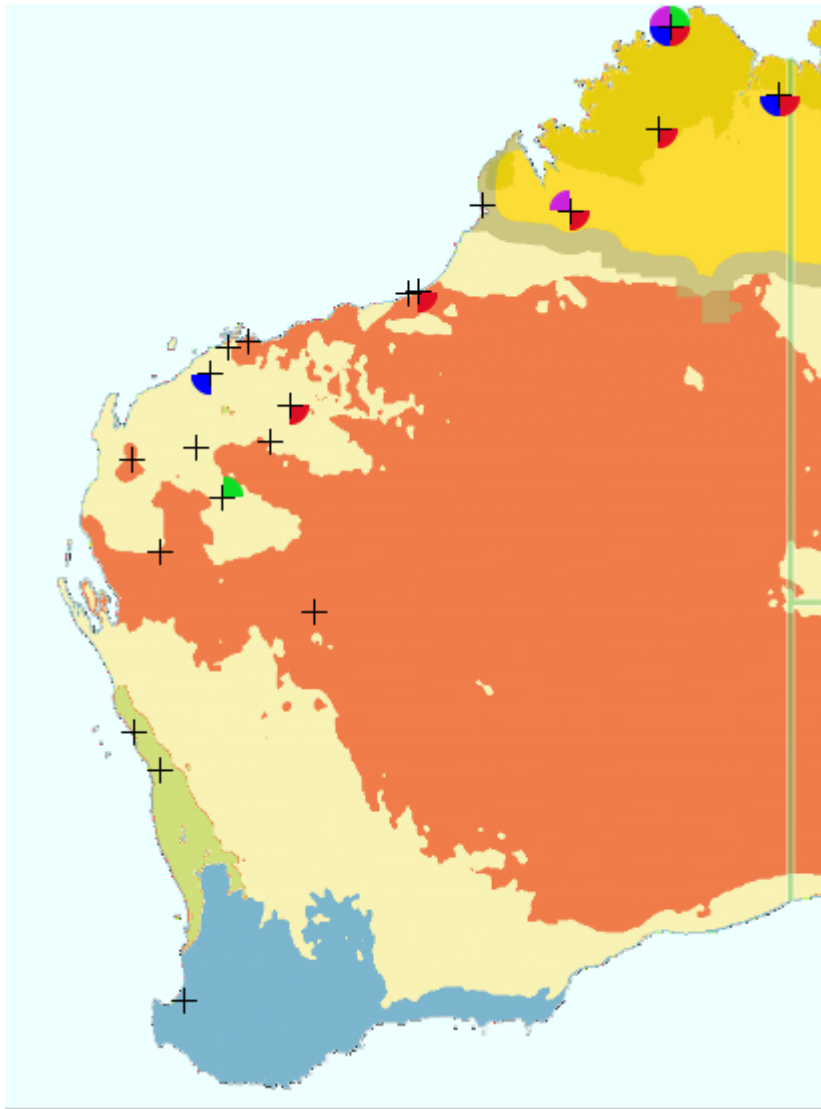
Southwest –

- Mediterranean

NAMP sites in WA



NAMP Vector Monitoring



Vectors in northern
Australia

 *Culicoides brevitarsis*

 *Culicoides wadai*

 *Culicoides actoni*

 *Culicoides fulvus*

 *Trap site no vectors*

Vector monitoring in WA dairy region



Vector Trapping W 157 June 2015 to June 2018



Site	Trap Date	Vectors	<u>Culicoides</u> non vector
Capel – W 157	16/07/2015 - Winter	NIL	NIL
	15/10/2015 - Summer	NIL	2 <u>C marksi</u>
	31/01/2016 - Summer	NIL	2 <u>C austropalis</u>
			2 <u>C marksi</u>
8/04/2016 - Winter	NIL	NIL	
Capel – W157	5/07/2016 - Winter	NIL	1 <u>C austropalis</u>
	3/10/2016 - Summer	NIL	NIL
	30/10/2017 - Summer	NIL	NIL
	27/04/2017 - winter	NIL	NIL
Capel – W157	24/07/2017 - Winter	NIL	NIL
	14/12/2017 - Summer	NIL	34 <u>C marksi</u>
			3 <u>C zentae</u>
			4 <u>C victoriae</u>
18/01/2018 - Summer	NIL	7 <u>C marksi</u>	
24/04/2018 - Winter	NIL	NIL	





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Thank you

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