

# SOUTH AUSTRALIAN MOSQUITO INTELLIGENCE REPORT

## No. 8

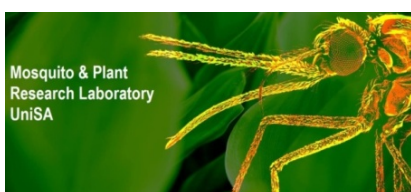
RELEASE DATE: 9<sup>th</sup> Nov 2010

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### MOSQUITO ABUNDANCE SUMMARY:

River Murray: - trapping commenced for the start of this season on 2<sup>nd</sup> September 2010 for the six district councils of the Murray River. Three trips have now been conducted so far this season. A total number of 90 traps have been set thusfar. The species mainly detected were: *Aedes camptorhynchus*, *Culex annulirostris* and other *Culex* species. Following recent flooding along the Murray Darling in Victoria increased water flows in the upper Murray Region have been observed with the river height of Morgan No 1 pump being higher than for the last 3 years with many backwaters experiencing flooding of localised breeding sites. Numbers of total mosquitoes are higher than at the same time last year, as shown by page 2 graph.

North Western Adelaide: - trapping commenced on 23<sup>rd</sup> September 2010 for City of Pt Adelaide Enfield and City of Salisbury (but for GDP only). The majority of the species being detected are *Aedes camptorhynchus* and *Culex* species after a very wet winter and spring to date, with *Aedes vigilax* beginning to be detected in traps. Larval surveillance for City of Pt Adelaide Enfield commenced mid September with most sites being very wet but most areas very large and not proving to be breeding sites. Some sites which are providing larvae have been suitably treated. The main areas of larval concern for City of Salisbury are Daniel Ave wetland which is now being regularly treated and Whites Rd drain which is being spot treated.

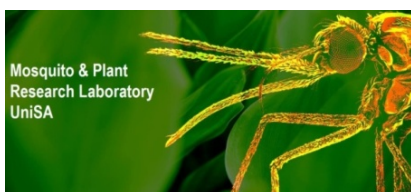
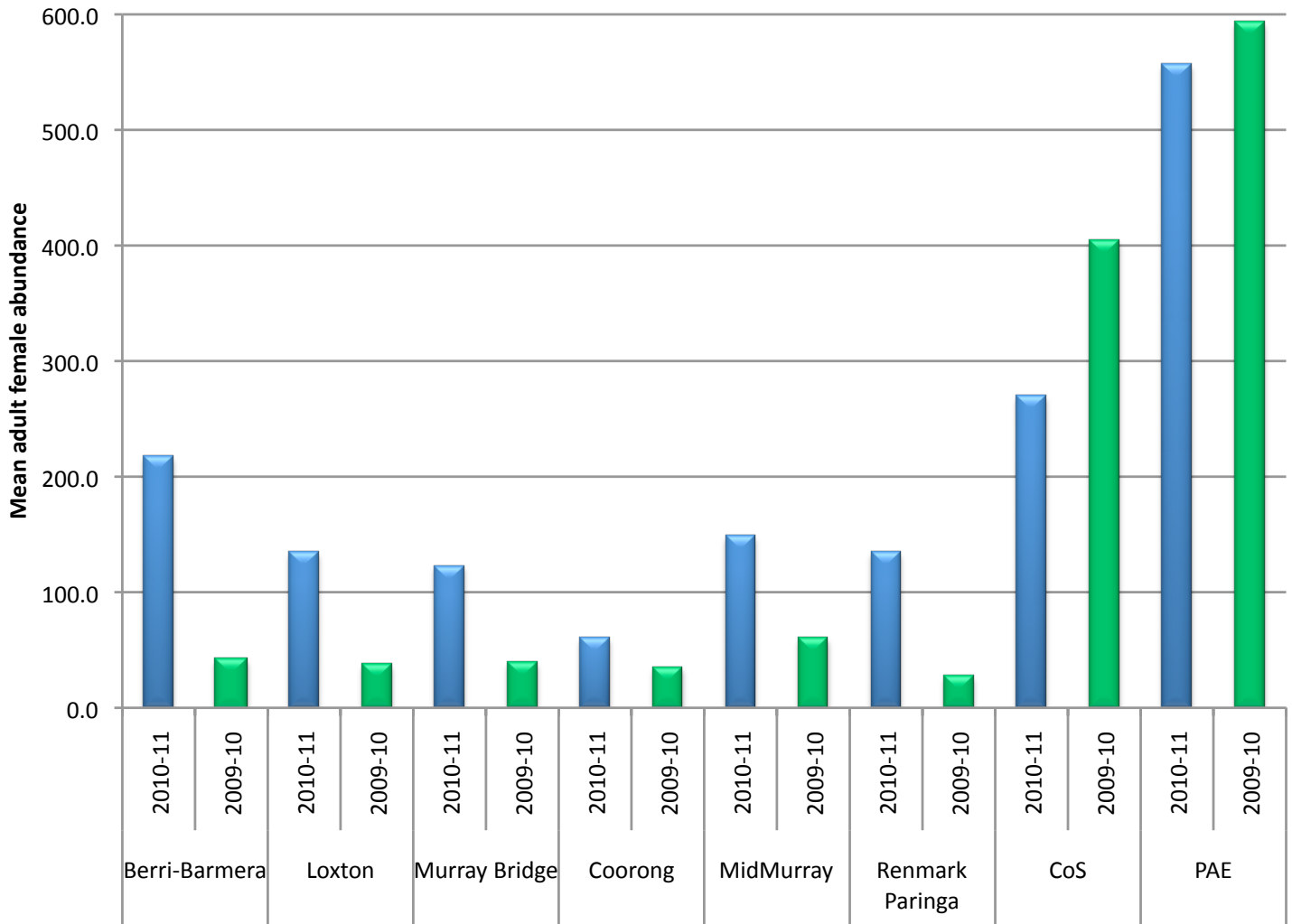


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### Graph of trap catches for Sept/Oct 2010



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### ROSS RIVER VIRUS RISK FORECASTS:

Entire River Murray Valley risk for Nov/Dec/Jan – The predicted incidence rate for this spring into part of summer in the entire Valley in SA is 46 per 100,000 population. We can say with 95% confidence that the rate is no higher than 96 per 100,000. The predicted number of notifications for the region for the next three months is 31, and we are 95% confident that there will anything up to 64 notifications. **This does constitute above-average risk.**

Upper RM risk for Nov/Dec/Jan - The predicted incidence rate for this spring into part of summer in the upper Valley in SA is 23 per 100,000 population. We can say with 95% confidence that the rate is no higher than 161 per 100,000. The predicted number of notifications for the region for the next three months is 2, and we are 95% confident that there will anything up to 16 notifications.. **This does not constitute above-average risk.**

Mid RM risk for Nov/Dec/Jan - The predicted incidence rate for this spring into part of summer in the upper Valley in SA is 76 per 100,000 population. We can say with 95% confidence that the rate is no higher than 301 per 100,000. The predicted number of notifications for the region for the next three months is 6, and we are 95% confident that there will anything up to 25 notifications.. **This does constitute above-average risk.**

Low RM risk for Nov/Dec/Jan - The predicted incidence rate for this spring into part of summer in the upper Valley in SA is 46 per 100,000 population. We can say with 95% confidence that the rate is no higher than 340 per 100,000. The predicted number of notifications for the region for the next three months is 3, and we are 95% confident that there will anything up to 20 notifications.. **This does constitute above-average risk.**

**Given the above predictions, we believe that on balance there is an increased risk of RRv activity throughout the Murray River Valley for the period Nov-Dec-Jan, compared with historic means for the same period. Peak transmission does not typically occur until Jan-Feb-Mar; by predicting higher than average levels now we are not speculating on the amount of activity later in the summer.**

**MOSQUITO VIRUS TESTING:-** virus screening will commence in December 2010, although *ad hoc* testing of specimens collected in northern SA by SA Health has been carried out at ICPMR Westmead.

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