



**Rural R&D for Profit program
Final Report**

Improved use of seasonal forecasting to increase
farmer profitability



APPENDIX 4

Updated findings on the skill and timeliness of forecasts for the sugar industry cluster as an example of the analysis.

LOCAL REGION	FORECAST SYSTEM	OVERALL HIT SCORE	HIT SCORE WITH ONSET, DURATION AND CESSATION OF ENSO EVENTS	COMMENTS
<u>DALBY REGION SINCE 2010</u>	ACCESS	76%	77%	Only limited outputs for this period
	ECMWF	75%	76%	Only limited outputs for this period
	GLOSEA5	58%	65%	
	POAMA 2.4	63%	73%	
	SOI P	47%	70%	
<u>MACKAY REGION SINCE 2010</u>	ACCESS	58%	81%	Only limited outputs for this period
	ECMWF	65%	84%	
	GLOSEA5	62%	67%	
	POAMA 2.4	73%	92%	
	SOI P	59%	75%	
<u>LONGREACH REGION SINCE 2010</u>	ACCESS	57%	87%	Only Limited data
	ECMWF	78%	82%	
	GLOSEA5	59%	56%	
	POAMA 2.4	67%	91%	
	SOI P	60%	79%	
<u>EMERALD REGION SINCE 2010</u>	ACCESS	74%	74%	Only Limited data
	ECMWF	62%	65%	
	GLOSEA5	67%	85%	Many forecasts 'blank'
	POAMA 2.4	72%	69%	
	SOIP	52%	70%	
<u>CHARTERS TOWERS REGION SINCE 2010</u>	ACCESS	61%	74%	Only Limited data
	ECMWF	63%	84%	
	GLOSEA5	67%	82%	
	POAMA 2.4	61%	79%	
	SOI P	53%	76%	
<u>DUBBO REGION SINCE 2010</u>	ACCESS	75%	78%	Only limited output to 2013
	ECMWF	87%	-	Very limited output
	GLOSEA5	62%	64%	
	POAMA 2.4	80%	87%	
	SOI P	62%	75%	

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<u>HORSHAM REGION SINCE 2010</u>	ACCESS	74%	73%	Only limited output to 2013
	ECMWF	-	-	
	GLOSEA5	61%	56%	
	POAMA 2.4	75%	78%	
	SOI P	60%	68%	Only system that forecast 2015/16 period well
<u>CLEVE REGION SINCE 2010</u>	ACCESS	71%	83%	Only limited period
	ECMWF	87%	87%	Only limited period
	GLOSEA5	68%	65%	
	POAMA 2.4	82%	82%	
	SOI P	53%	70%	
<u>NANGEENAN REGION SINCE 2010</u>	ACCESS	46%	33%	Only limited data
	ECMWF	65%	73%	
	GLOSEA5	64%	85%	
	POAMA 2.4	59%	61%	
	ACCESS	65%	78%	Very Limited data
<u>CAMPBELLTOWN REGION SINCE 2010</u>	ECMWF	-	-	
	GLOSEA5	87%	63%	Very limited data
	POAMA2.4	51%	58%	
	SOI P	62%	62%	
	ACCESS	82%	87%	Very limited data
<u>HOLBROOK REGION SINCE 2010</u>	ECMWF	-	-	
	GLOSEA5	70%	65%	
	POAMA2.4	73%	72%	
	SOI P	58%	77%	
	ACCESS	54%	40%	
<u>DALBY REGION 1990-2010</u>	ECMWF	-	-	
	GLOSEA5	91%	91%	Only 17 years data
	POAMA 2.4	64%	67%	
	SOI P	53%	71%	
	ACCESS	62%	72%	
<u>MACKAY REGION 1990-2010</u>	ECMWF	-	-	
	GLOSEA5	75%	73%	Only very limited data
	POAMA 2.4	61%	64%	
	SOI P	52%	62%	
	ACCESS	56%	73%	
<u>LONGREACH REGION 1990-2010</u>	ECMWF	-	-	No data
	GLOSEA5	50%	-	Only very limited data
	POAMA 2.4	61%	76%	
	SOI P	55%	55%	
	ACCESS	58%	67%	
<u>EMERALD REGION 1990-2010</u>	ECMWF	57%	80%	Only limited data
	GLOSEA5	63%	-	
	POAMA 2.4	61%	74%	
	SOI P	59%	61%	
	ACCESS	54%	69%	

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<u>CHARTERS TOWERS REGION 1990-2010</u>	GLOSEA5	70%	80%	Only limited data
	ECMWF	-	-	No data
	POAMA 2.4	71%	76%	
	SOI P	60%	60%	
<u>DUBBO REGION 1990-2010</u>	ACCESS	61%	59%	
	ECMWF	83%	-	Only limited data
	GLOSEA5	66%	90%	Only Limited data
	POAMA 2.4	65%	74%	
<u>HORSHAM REGION 1990-2010</u>	SOI P	55%	64%	
	ACCESS	57%	61%	
	ECMWF	-	-	
	GLOSEA5	54%	75%	Only Limited data
	POAMA 2.4	61%	71%	
<u>CLEVE REGION 1990-2010</u>	SOI P	61%	60%	
	ACCESS	55%	66%	
	ECMWF	-	-	
	GLOSEA5	89%	90%	Only Limited data
	POAMA 2.4	56%	58%	
<u>NANGEENAN REGION 1990-2010</u>	SOI P	59%	62%	
	ACCESS	57%	51%	
	ECMWF	61%	-	Only limited data
	GLOSEA5	58%	-	Only limited data
	POAMA 2.4	59%	61%	
<u>CAMPBELLTOWN REGION 1990-2010</u>	SOI P	58%	55%	
	ACCESS	57%	61%	
	GLOSEA5	-	-	
	ECMWF	-	-	
<u>HOLBROOK REGION 1990-2010</u>	POAMA2.4	88%	61%	
	SOI P	54%	56%	
	ACCESS	59%	59%	
	GLOSEA5	-	-	
<u>HOLBROOK REGION 1990-2010</u>	ECMWF	-	-	
	POAMA 2.4	70%	68%	
	SOI P	54%	53%	