



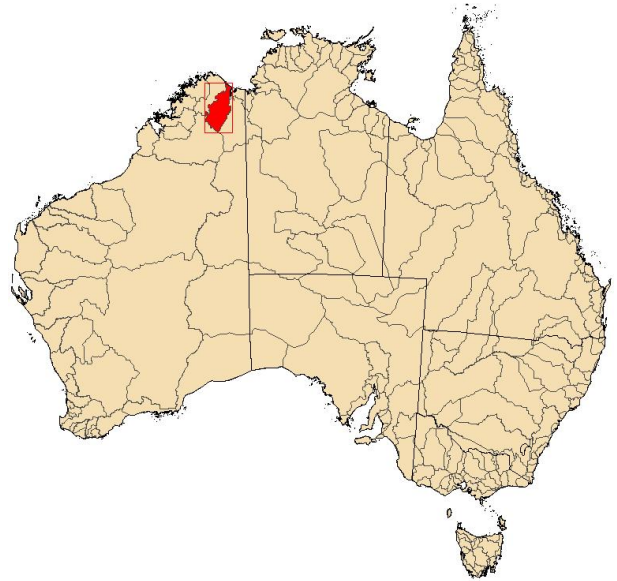
# PENTECOST RIVER

## July 2008 River Basin Summary



### BACKGROUND

<b>Population (2006):<sup>1</sup></b>	209
<b>Major Towns:<sup>1</sup></b>	None
<b>Major Rivers:<sup>2</sup></b>	Durack River, Chamberlain River, Salmond River
<b>Major Water Storages:<sup>2, 3, 4</sup></b>	None
<b>Irrigation Areas:<sup>4</sup></b>	No formal areas
<b>Climate Zone(s):<sup>5</sup></b>	Summer Dominant Rainfall
<b>July Rainfall Reliability:<sup>6</sup></b>	Low



### JULY WATER BALANCE STATISTICS<sup>7</sup>

#### Rainfall (mm)

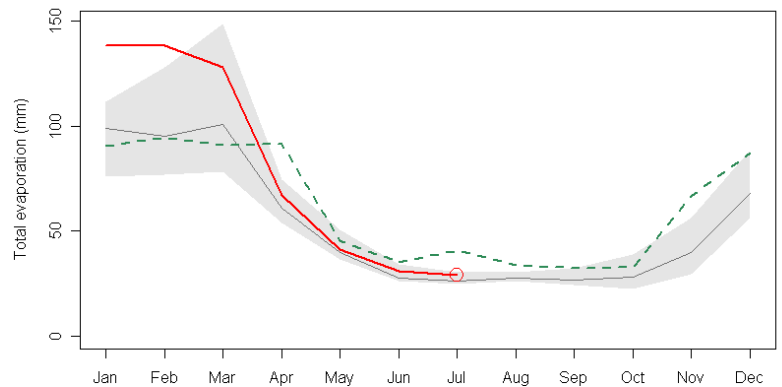
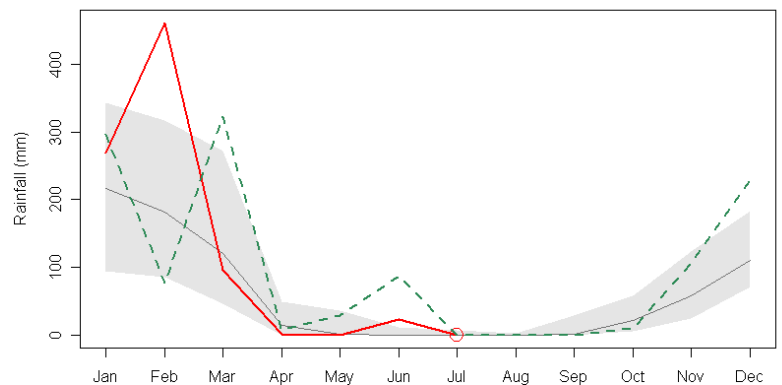
July 2008: <0.1

July - Long term				
Mean	Median	10th percentile	90th percentile	
5.6	0.0	0.0	7.8	

#### Total evaporation (mm)\*

July 2008: 29.2

July - Long term				
Mean	Median	10th percentile	90th percentile	
27.7	26.3	24.9	30.4	



<sup>1</sup> Australian Bureau of Statistics (2006); <sup>2</sup> Geosciences Australia (1999); <sup>3</sup> National Land and Water Resources Audit (2000); <sup>4</sup> Australian National Committee on Large Dams (2005); <sup>5</sup> Bureau of Meteorology (2005); <sup>6</sup> Bureau of Rural Sciences (2007); <sup>7</sup> Australian Water Availability Project - Bureau of Meteorology, CSIRO and Bureau of Rural Sciences (2008)

\* Plant transpiration + soil evaporation

n/a = Not applicable

# PENTECOST RIVER

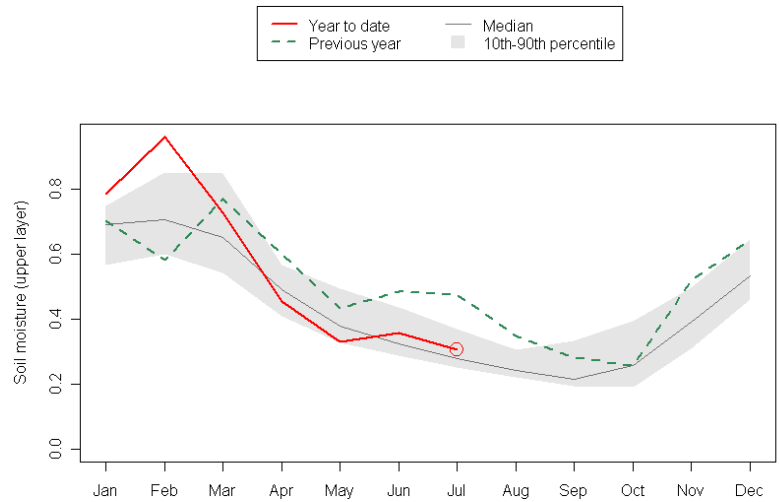
## July 2008 River Basin Summary

### JULY WATER BALANCE STATISTICS<sup>1</sup>

#### Upper layer soil moisture index (0-1)

July 2008: 0.31

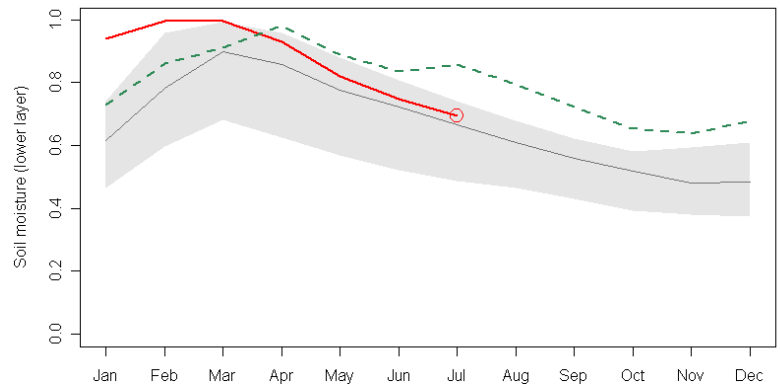
July - Long term			
Mean	Median	10th percentile	90th percentile
0.3	0.28	0.25	0.37



#### Lower layer soil moisture index (0-1)

July 2008: 0.69

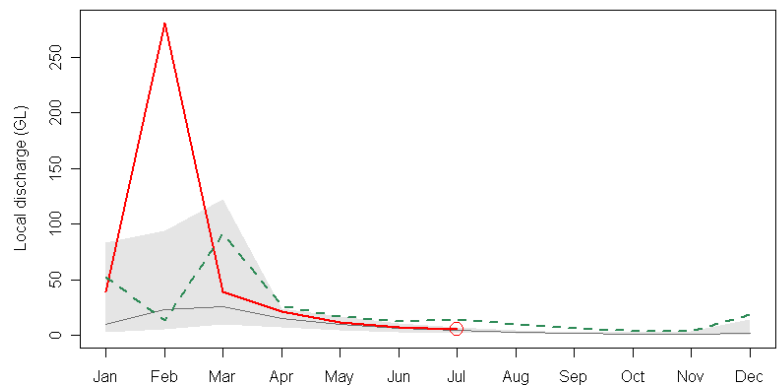
July - Long term			
Mean	Median	10th percentile	90th percentile
0.65	0.67	0.49	0.74



#### Local discharge (GL)\*

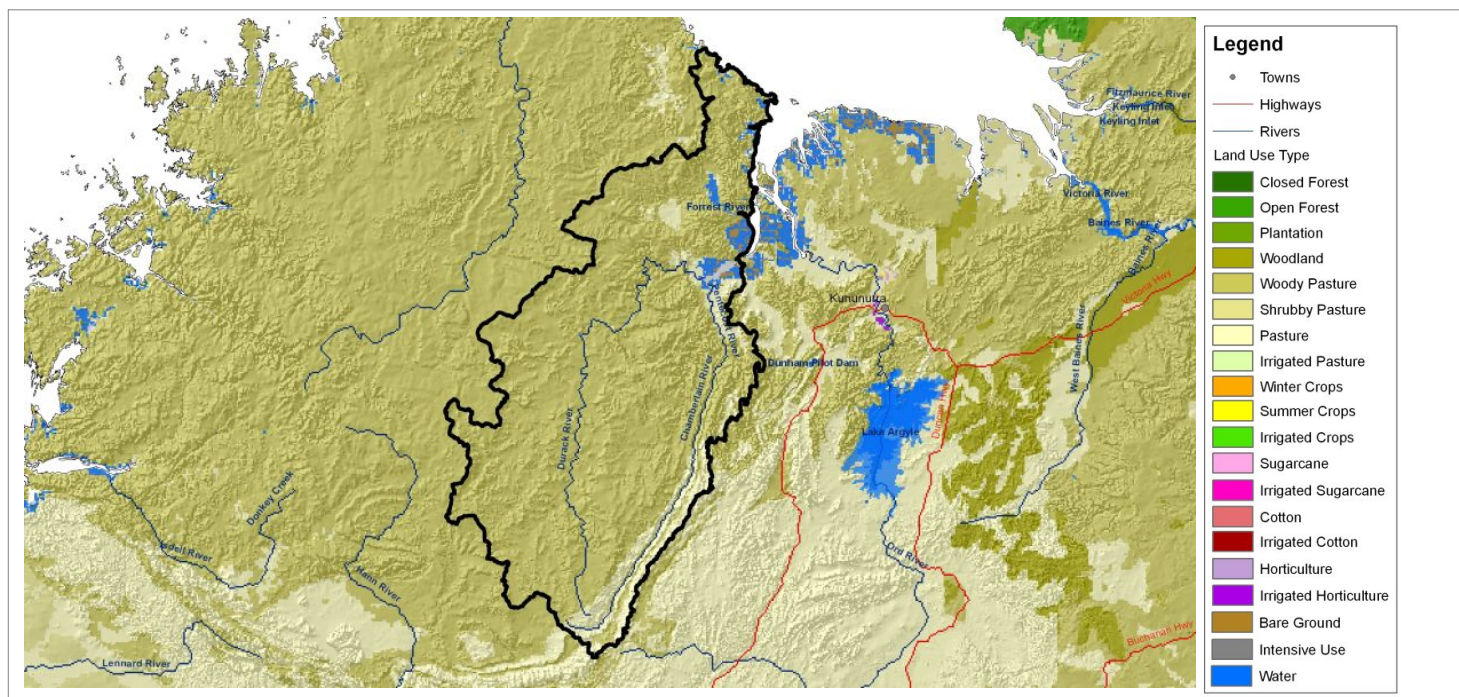
July 2008: 5.1

July - Long term			
Mean	Median	10th percentile	90th percentile
4.9	4.5	2.2	7.2



<sup>1</sup> Australian Water Availability Project - Bureau of Meteorology, CSIRO and Bureau of Rural Sciences (2008)

\* Runoff + deep drainage



## PENTECOST RIVER

### July 2008 Modelled Water Balance

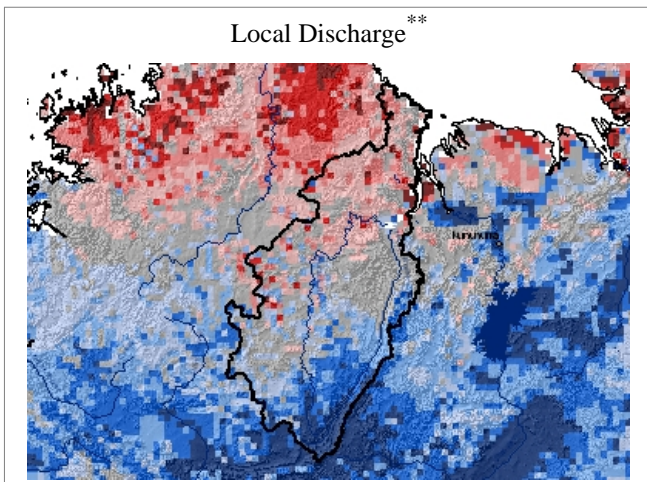
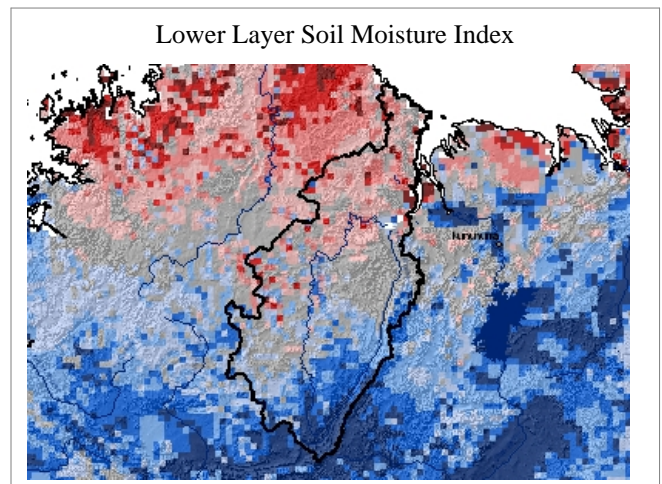
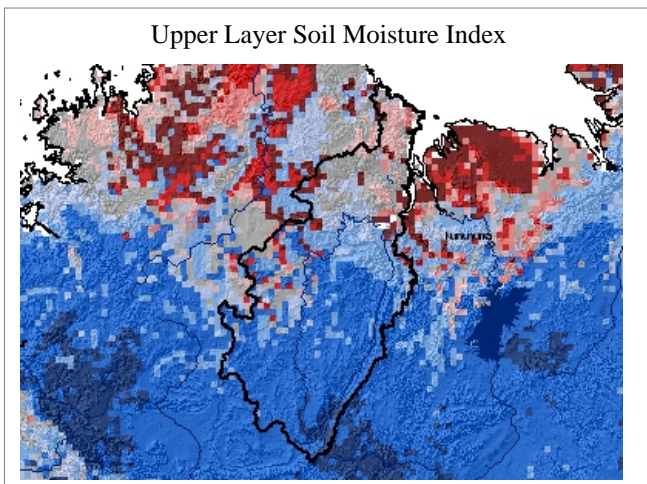
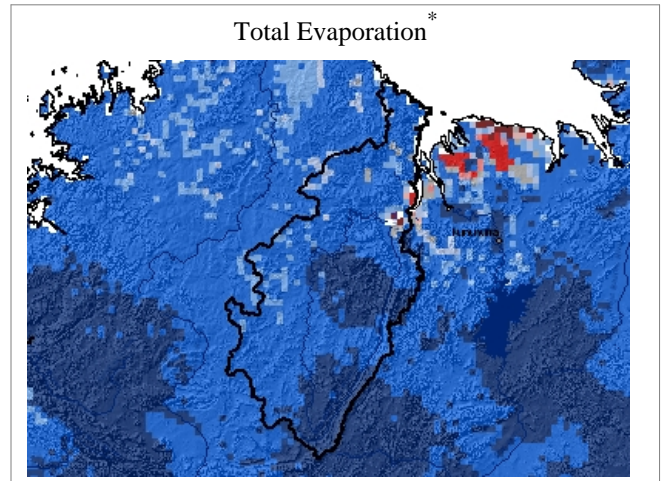
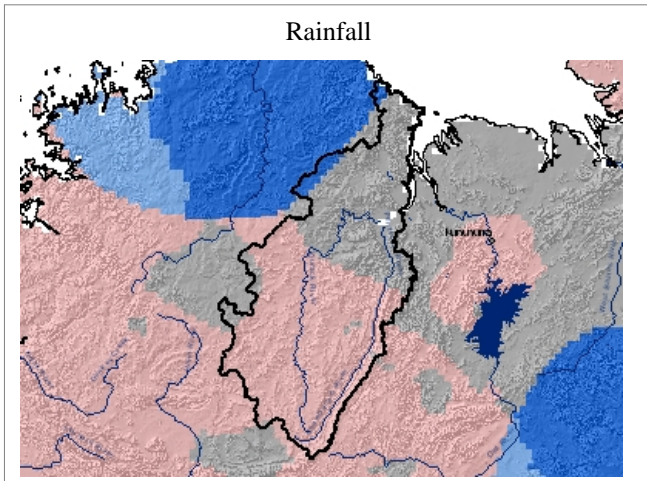
Land Use Type	Area	Rainfall	Total Evaporation *	Soil Moisture (Upper Layer)	Soil Moisture (Lower Layer)	Local Discharge **
	<i>sqkm</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>
Closed Forest	0	-	-	-	-	-
Open Forest	4	85	74	9	27	26
Plantation	0	-	-	-	-	-
Woodland	0	-	-	-	-	-
Woody Pasture	25,899	42	87	72	54	54
Shrubby Pasture	0	-	-	-	-	-
Pasture	2,461	41	87	77	75	75
Irrigated Pasture	0	-	-	-	-	-
Winter Crops	0	-	-	-	-	-
Summer / Fodder Crops	0	-	-	-	-	-
Irrigated Crops	0	-	-	-	-	-
Sugarcane	0	-	-	-	-	-
Irrigated Sugarcane	0	-	-	-	-	-
Cotton	0	-	-	-	-	-
Irrigated Cotton	0	-	-	-	-	-
Horticulture	0	-	-	-	-	-
Irrigated Horticulture	0	-	-	-	-	-
Bare Ground	119	43	48	18	29	29
Intensive Use	0	-	-	-	-	-
Water	442	43	63	27	37	37
<b>Entire Basin</b>	<b>29,143</b>	<b>42</b>	<b>87</b>	<b>71</b>	<b>56</b>	<b>56</b>

Data Sources: Landuse data were developed by the Bureau of Rural Sciences. They were not explicitly used in water balance modelling. Modelled water balance data (5 km grid outputs) were developed as part of the Australian Water Availability Project by the Bureau of Meteorology, CSIRO and the Bureau of Rural Sciences.

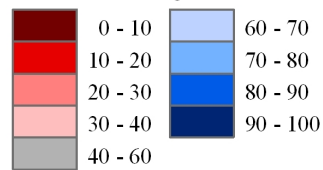
\* Plant transpiration + soil evaporation; \*\* Runoff + deep drainage

# PENTECOST RIVER

## July 2008 Landscape Water Balance



### Percentile Ranking



### Notes:

Data sourced from the Australian Water Availability Project (Bureau of Meteorology, CSIRO and Bureau of Rural Sciences).

Percentiles based on the standard climatological reference period 1961 - 1990.

\* Plant transpiration + soil evaporation; \*\* Runoff + deep drainage.