



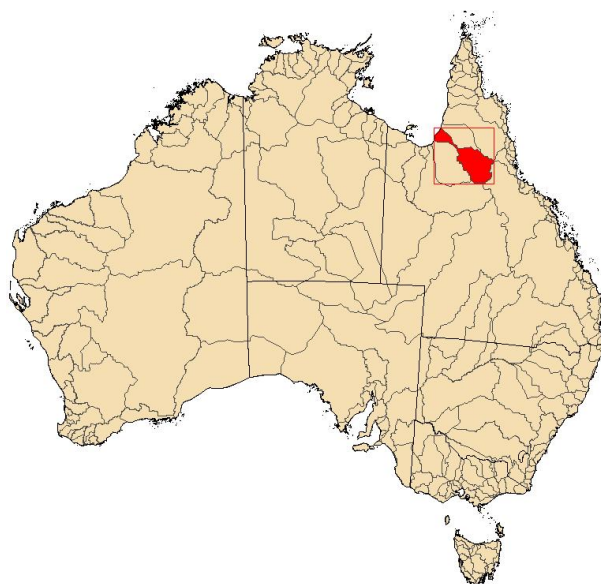
GILBERT RIVER

July 2008 River Basin Summary



BACKGROUND

Population (2006): ¹	871
Major Towns: ¹	Georgetown
Major Rivers: ²	Gilbert River, Einasleigh River, Smithburne River
Major Water Storages: ^{2, 3, 4}	Copperfield River Gorge, Mt Hogan Water Supply Dam
Irrigation Areas: ⁴	No formal areas
Climate Zone(s): ⁵	Summer Dominant Rainfall
July Rainfall Reliability: ⁶	Low - Moderate



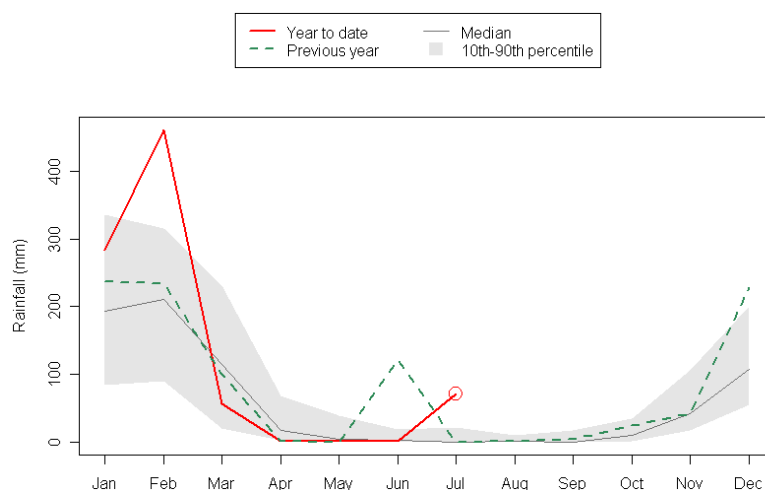
JULY WATER BALANCE STATISTICS⁷

Rainfall (mm)

July 2008: 71.0

July - Long term

Mean	Median	10th percentile	90th percentile
5.4	0.5	<0.1	21.2

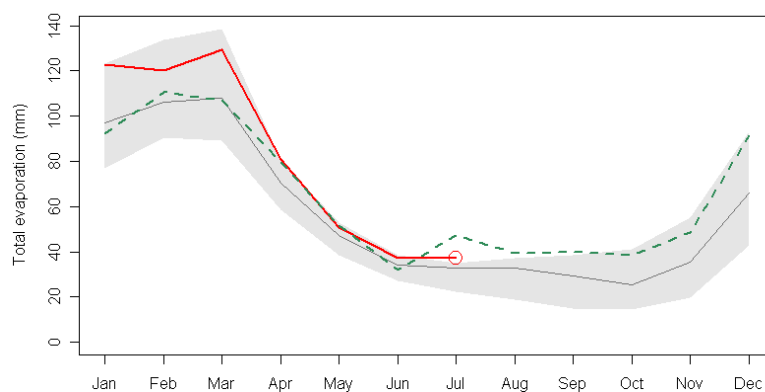


Total evaporation (mm)*

July 2008: 37.1

July - Long term

Mean	Median	10th percentile	90th percentile
30.9	32.9	22.1	35.1



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

* Plant transpiration + soil evaporation

n/a = Not applicable

GILBERT RIVER

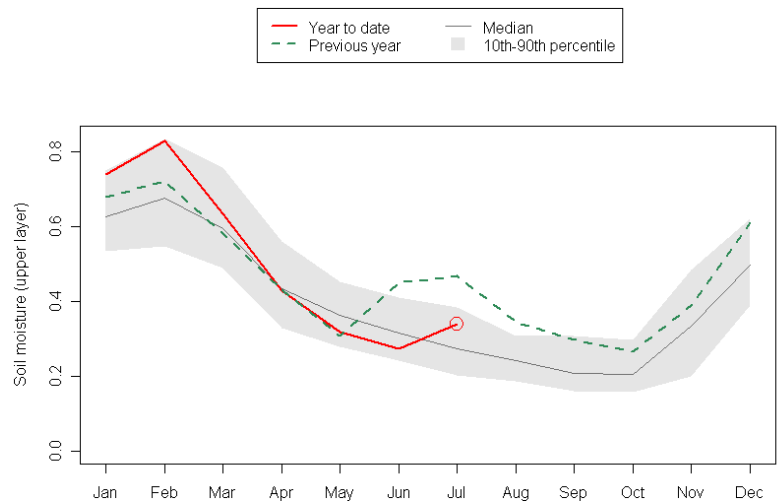
July 2008 River Basin Summary

JULY WATER BALANCE STATISTICS¹

Upper layer soil moisture index (0-1)

July 2008: 0.34

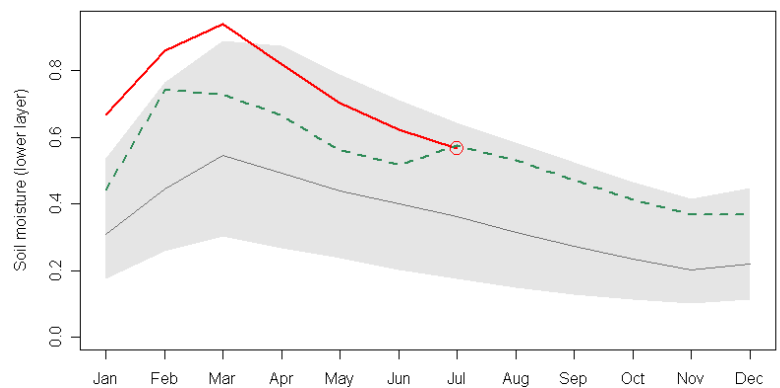
July - Long term			
Mean	Median	10th percentile	90th percentile
0.28	0.27	0.2	0.38



Lower layer soil moisture index (0-1)

July 2008: 0.57

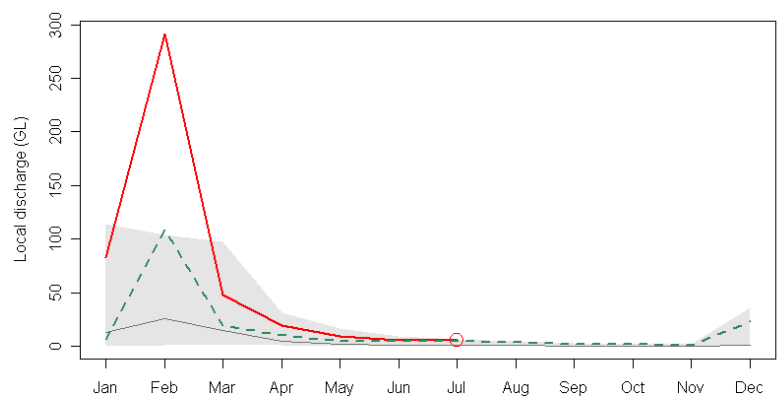
July - Long term			
Mean	Median	10th percentile	90th percentile
0.39	0.36	0.18	0.64



Local discharge (GL)^{*}

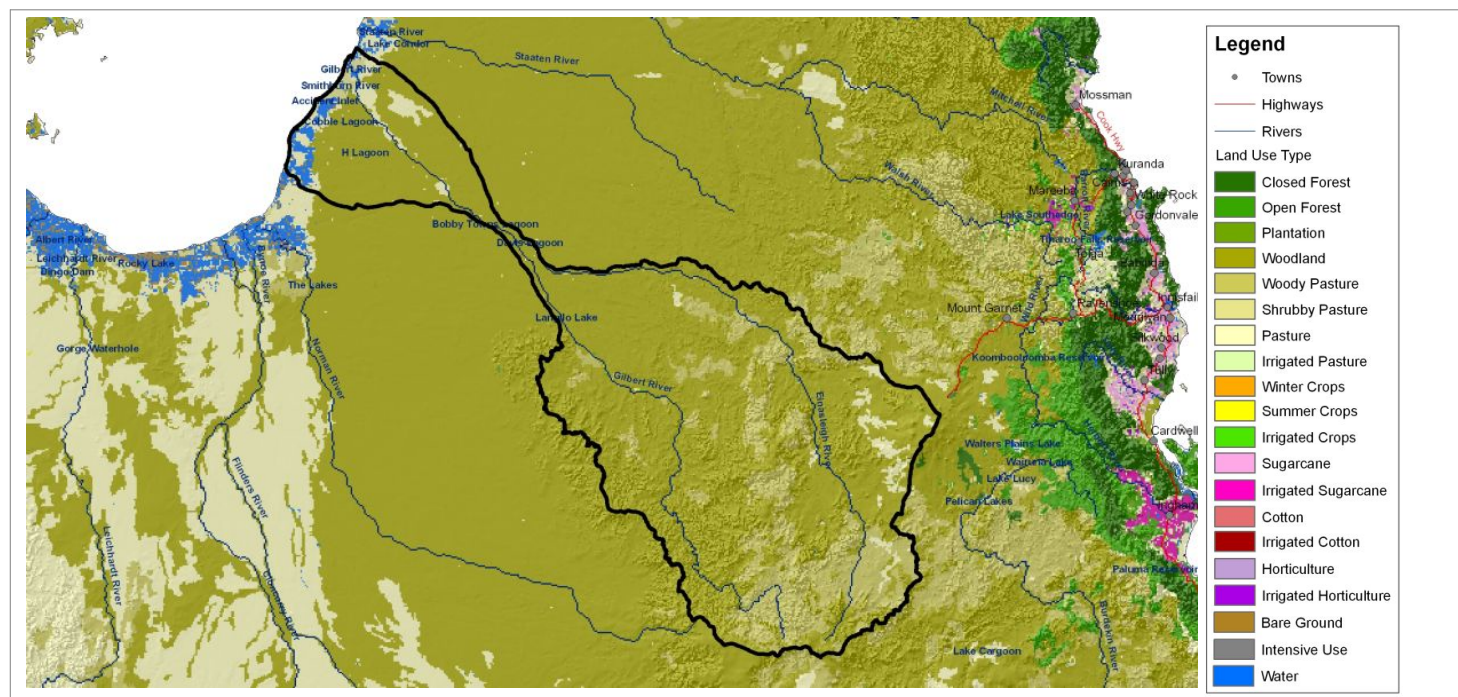
July 2008: 5.8

July - Long term			
Mean	Median	10th percentile	90th percentile
2.3	0.9	<0.1	6.8



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

^{*} Runoff + deep drainage



GILBERT RIVER

July 2008 Modelled Water Balance

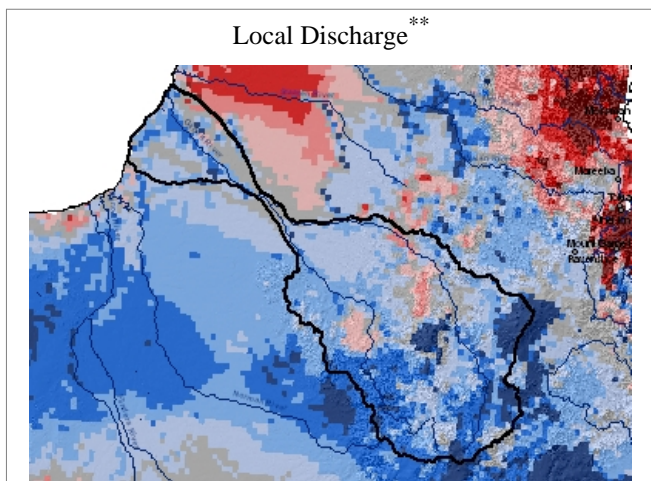
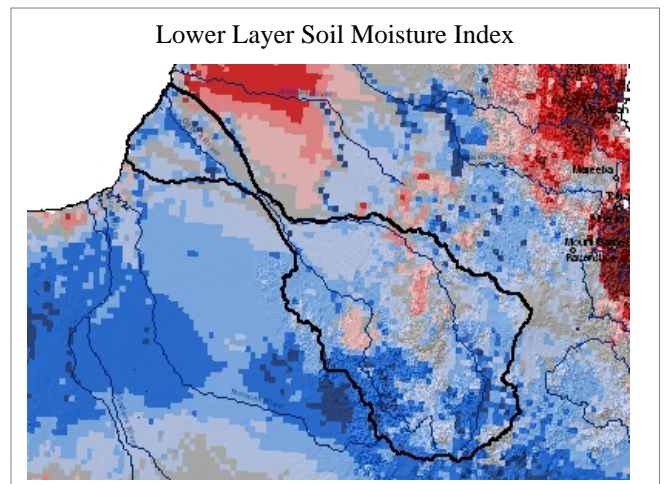
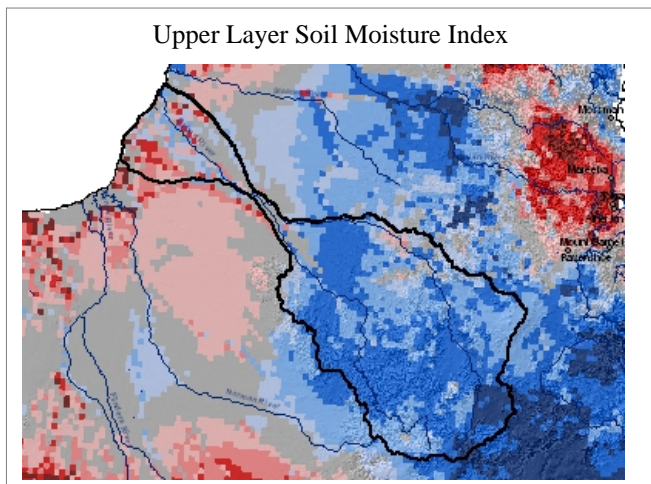
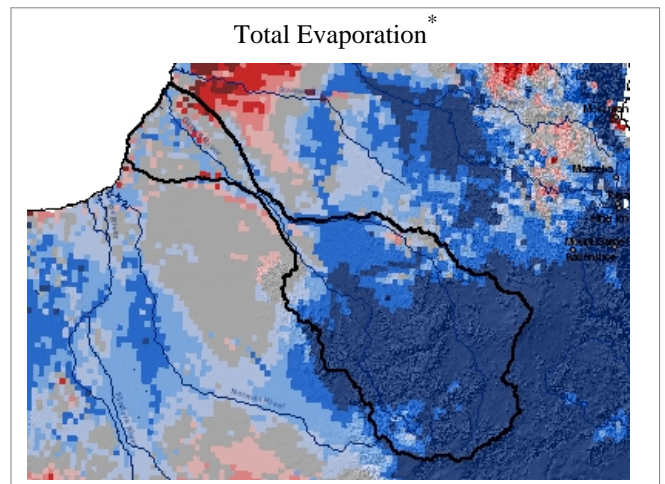
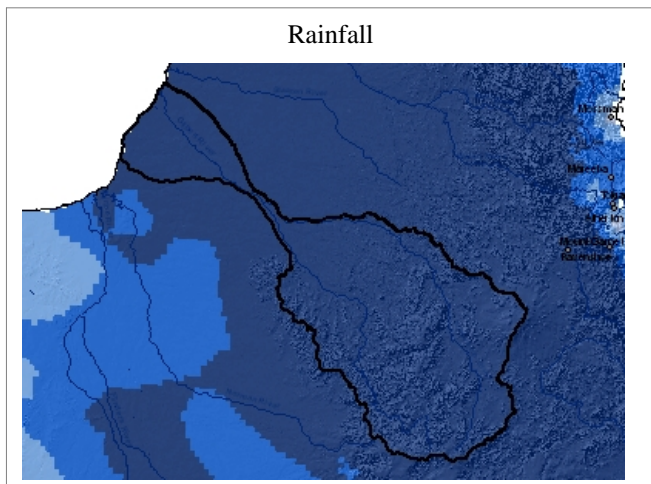
Land Use Type	Area	Rainfall	Total Evaporation *	Soil Moisture (Upper Layer)	Soil Moisture (Lower Layer)	Local Discharge **
	<i>sqkm</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>	<i>percentile</i>
Closed Forest	0	-	-	-	-	-
Open Forest	21	98	91	79	71	79
Plantation	0	-	-	-	-	-
Woodland	35,327	98	83	73	68	69
Woody Pasture	8,257	98	92	79	68	72
Shrubby Pasture	279	98	54	53	67	66
Pasture	1,858	98	72	62	71	76
Irrigated Pasture	0	-	-	-	-	-
Winter Crops	0	-	-	-	-	-
Summer / Fodder Crops	9	98	84	77	73	75
Irrigated Crops	3	98	95	84	75	80
Sugarcane	0	-	-	-	-	-
Irrigated Sugarcane	0	-	-	-	-	-
Cotton	0	-	-	-	-	-
Irrigated Cotton	0	-	-	-	-	-
Horticulture	0	-	-	-	-	-
Irrigated Horticulture	0	-	-	-	-	-
Bare Ground	42	98	65	51	60	60
Intensive Use	2	98	98	80	75	91
Water	445	98	60	46	65	65
Entire Basin	46,281	98	84	73	68	70

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.

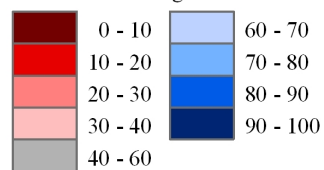
* Plant transpiration + soil evaporation; ** Runoff + deep drainage

GILBERT 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.