



July 2008 River Basin Summary

BACKGROUND

Population (2006): 543,929

Major Towns: 1 Canberra, Wagga Wagga

Major Rivers:² Murray River, Murrumbidgee

River, Billabong Creek

Major Water Storages: 2, 3, 4 Blowering, Burrinjuck

Irrigation Areas: 4 Lowbidgee, West Corurgan

Climate Zone(s):⁵ Uniform Rainfall, Summer (Low

Winter) Rainfall

July Rainfall Reliability: 6 Moderate - High

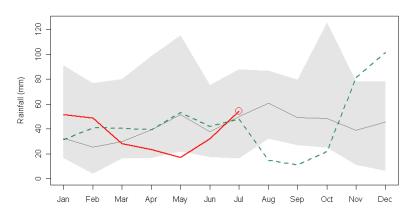


JULY WATER BALANCE STATISTICS⁷

Rainfall (mm)

July 2008: 54.4

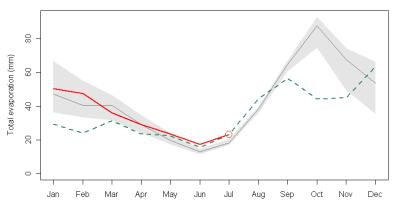
July - Long term					
Mean	Median	10th percentile	90th percentile		
52.6	50.1	16.2	87.9		



Total evaporation (mm)*

July 2008: 23.2

July - Long term					
Mean	Median	10th	90th		
		percentile	percentile		
18.4	18.2	17.0	20.4		



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)

July 2008 River Basin Summary

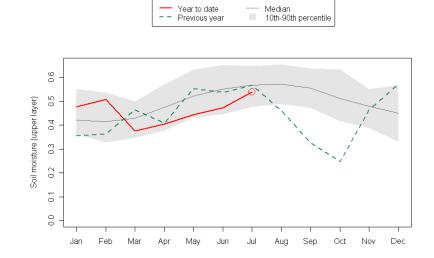
JULY WATER BALANCE STATISTICS 1

Upper layer soil moisture index (0-1)

July 2008:

0.54

July - Long term					
Mean	Median	10th percentile	90th percentile		
0.56	0.57	0.48	0.65		

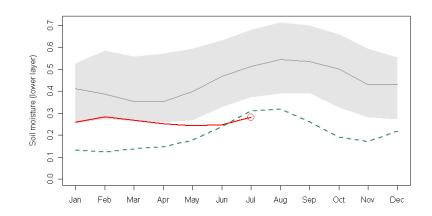


Lower layer soil moisture index (0-1)

July 2008:

0.28

	July -	uly - Long term		
Mean	Median	10th percentile	90th percentile	
0.52	0.51	0.37	0.68	

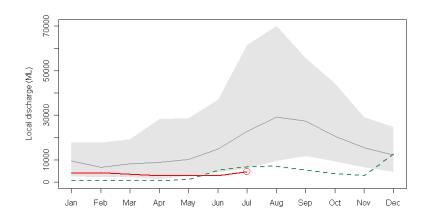


Local discharge (ML)*

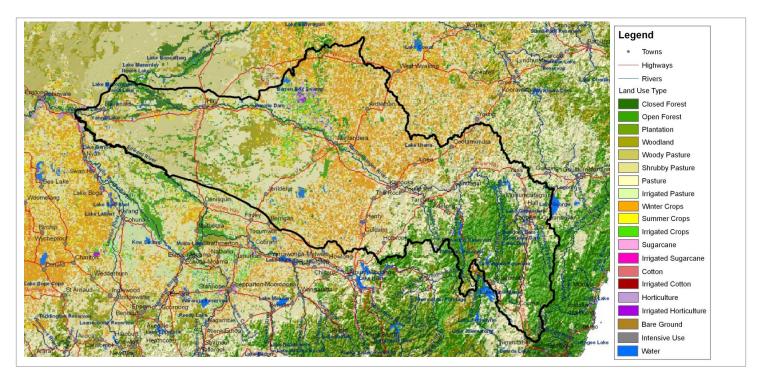
July 2008:

4,692

July - Long term					
Mea	an	Median	10th	90th	
			percentile	percentile	
30,1	96	22,754	6,118	61,381	



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



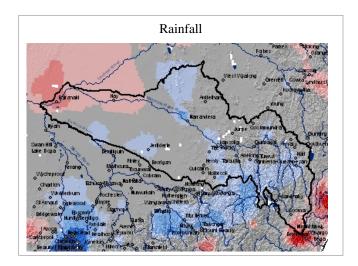
July 2008 Modelled Water Balance

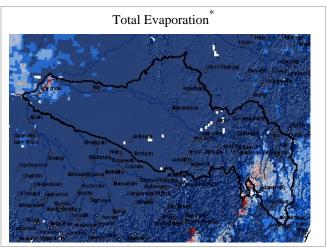
Land Use Type	Area	Rainfall	Total Evaporation [*]	Soil Moisture (Upper Layer)	Soil Moisture (Lower Layer)	Local Discharge**
	sqkm	percentile	percentile	percentile	percentile	percentile
Closed Forest	1,310	40	90	16	6	6
Open Forest	13,381	54	84	38	9	9
Plantation	1,184	60	93	47	3	3
Woodland	4,537	51	91	32	6	6
Woody Pasture	1,107	54	94	39	5	5
Shrubby Pasture	5,534	46	96	15	2	2
Pasture	34,406	54	96	44	4	4
Irrigated Pasture	1,402	55	98	42	6	6
Winter Crops	13,704	56	98	53	3	3
Summer / Fodder Crops	2,260	53	96	44	4	4
Irrigated Crops	1,141	56	98	47	7	7
Sugarcane	0	-	-	-	-	-
Irrigated Sugarcane	0	-	-	-	-	-
Cotton	2	54	98	49	2	2
Irrigated Cotton	0	-	-	-	-	-
Horticulture	330	59	97	47	8	8
Irrigated Horticulture	158	60	98	48	9	9
Bare Ground	54	52	93	37	4	4
Intensive Use	312	62	96	43	6	6
Water	819	52	93	39	5	5
Entire Basin	81,641	54	94	41	5	5

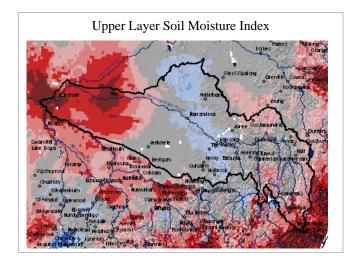
Data Sources: Landuse data were developed by the Bureau of Rural Sciences. They were not explicitly used in water balance modelling. Modelled water balance data (5 km grid outputs) were developed as part of the Australian Water Availability Project by the Bureau of Meteorology, CSIRO and the Bureau of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

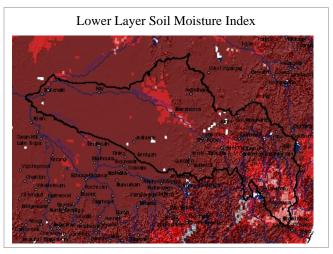
^{*} Plant transpiration + soil evaporation; **Runoff + deep drainage

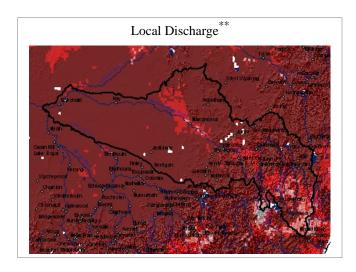
July 2008 Landscape Water Balance

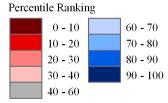












Notes:

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

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

^{*} Plant transpiration + soil evaporation; ** Runoff + deep drainage.