

CALLIOPE RIVER



River Basin Summary

Population (2006): 25,195

Major Towns: 1 Gladstone, Calliope

Major Rivers:² Calliope River, Double Creek, Larcom Creek

Surface Water Storages: 2, 3, 4

Largest known storages:

None

No. of storages:

0

Storage capacity (ML):

0

Licensed Irrigation:

Largest areas: None
Number of licenses: n/a

Average annual allocation (ML):

Since 1996-97: n/a
Minimum: n/a
Maximum: n/a

Average annual diversion (ML):

Since 1996-97: n/a
Minimum: n/a
Maximum: n/a

Groundwater:

Number of production bores:⁷ 340

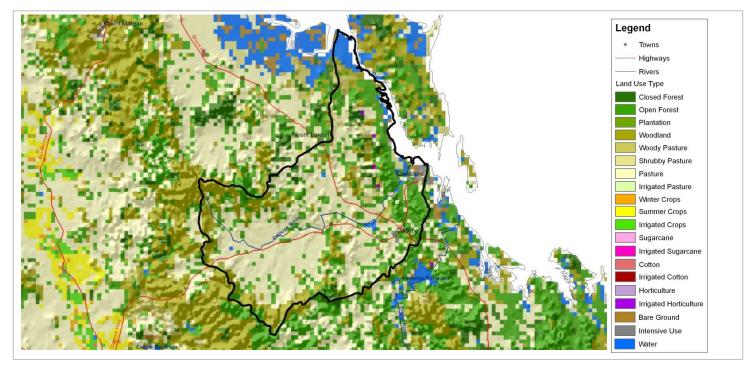
Recharge rate (mm/year): 8 Data being compiled Yield (ML/year): 8 Data being compiled Extraction (ML/year): 7 Data being compiled

Rainfall Reliability:

Chance of receiving average seasonal rainfall: 8 Low (4 to 4.5 yrs in 10)



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 (2004); ⁵ Australian National Committee - International Commission on Irrigation and Drainage (2005); ⁶ Murray Darling Basin Commission (2005); ⁷ State Agencies (2006); ⁸ Bureau of Rural Sciences (2007); ^x Incomplete



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Modelled Annual Water Balance

Land Use Type	Area (sqkm)	Precipitation (ML)	Runoff (ML)	ET (ML)	Deep drainage (ML)	Irrigation (ML)	Return flow (ML)
Closed Forest	74	71,747	4,617	66,076	1,054	0	0
Open Forest	541	508,333	39,458	461,441	7,433	0	0
Plantation	1	985	64	907	14	0	0
Woodland	338	307,187	39,727	262,993	4,466	0	0
Woody Pasture	71	67,779	14,548	52,246	985	0	0
Shrubby Pasture	8	7,356	1,484	5,752	121	0	0
Pasture	1,048	941,577	232,043	695,843	13,691	0	0
Irrigated Pasture	0	0	0	0	0	0	0
Winter Crops	0	0	0	0	0	0	0
Summer / Fodder Crops	1	868	160	670	38	0	0
Irrigated Crops	1	913	179	694	41	768	158
Sugarcane	0	0	0	0	0	0	0
Irrigated Sugarcane	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0
Irrigated Cotton	0	0	0	0	0	0	0
Horticulture	0	0	0	0	0	0	0
Irrigated Horticulture	4	4,187	560	3,565	61	2,498	167
Bare Ground	13	12,318	4,755	7,370	193	0	0
Intensive Use	10	9,482	2,947	6,388	147	0	0
Water	57	50,779	16,943	33,108	728	0	0
Entire Basin	2,207	2,019,423	357,485	1,632,968	28,970	3,266	325
NLWRA ¹	2,255	n/a	301,000	n/a	n/a	6,733	n/a
AWRC ²	2,260	n/a	340,000	n/a	n/a	n/a	n/a

Data Sources: Land use data sourced from the Bureau of Rural Sciences. Precipitation data sourced from the Australian Bureau of Meteorology. All other data derived from the Bureau of Rural Sciences' steady-state annual water balance model.

¹National Land and Water Resources Audit (2000); ²Australian Water Resource Council (1987); n/a = Not available

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Average Annual Water Resource Summary (GL)

Water Supply		Seasonal Climate Variability
Runoff: 1	357	Potential Evapotranspiration —— Precipitation
Transfers: ^{1, 2}	0	200-
Groundwater Sustainable		
Yield: ³	4	The state of the s
Total:	362	150-
		Millimeters
Water Use		100-
Irrigation: ¹	3	
Residential: ¹	3	50-

<1

<1

0

Total Use (% of Supply):	2%

Commercial/Industrial:³

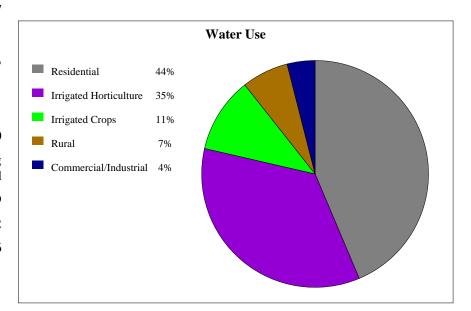
Rural (Stock/Domestic):³

Transfers: 1, 2

Total:

River Flows

Retained in Storage:~	0
Environmental Flows:	Data being compiled
Transmission Losses:	89
Return Flows: ¹	2
Outflow: @	266



Mar Apr May Jun

¹Bureau of Rural Sciences (2007); ²Australian Water Resource Council (1987); ³National Land and Water Resources Audit (2000) [#]Groundwater only; ^{*}Surface water only; [~]5% of total storage; [^]25% of runoff; ^xincomplete

[®] Surface water (supply - use - retention in storage - transmission losses + environmental flows + return flows)