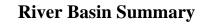


Australian Government

Bureau of Rural Sciences
Bureau of Meteorology

FITZROY RIVER (QLD)





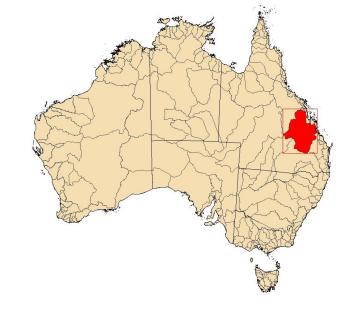
Population (2006): ¹	144,464
Major Towns: ¹	Rockhampton, Emerald
Major Rivers: ²	Nogoa River, Isaac River, Dawson River

Surface Water Storages:^{2, 3, 4}

Largest known storages:	Fairbairn, Callide
No. of storages:	24
Storage capacity (ML):	1,810,655

Licensed Irrigation:

Largest areas: ³	Dawson, Emerald		
Number of licenses: ⁵	538		
Average annual allocation (ML): ⁵			
Since 2001-02:	242,057		
Minimum:	220,891		
Maximum:	265,693		
Average annual diversion (ML): ⁵			
Since 2001-02:	275,029		
Minimum:	227,653		
Maximum:	346,337		



Groundwater:

Number of production bores: ⁷	11,850
Recharge rate (mm/year): ⁸	Data being compiled
Yield (ML/year): ⁸	Data being compiled
Extraction (ML/year): ⁷	Data being compiled

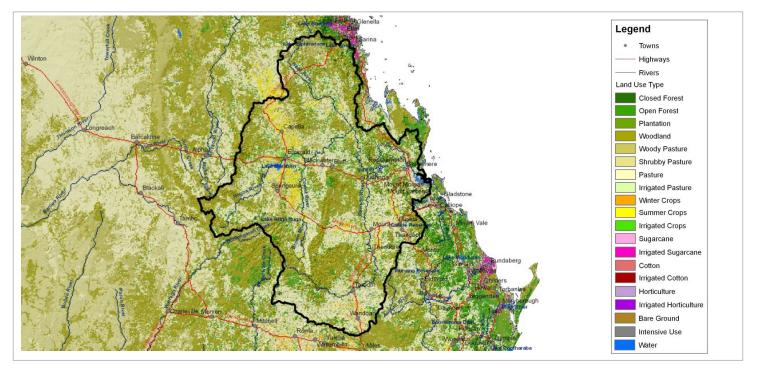
Rainfall Reliability:

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



FITZROY RIVER (QLD)

Modelled Annual Water Balance

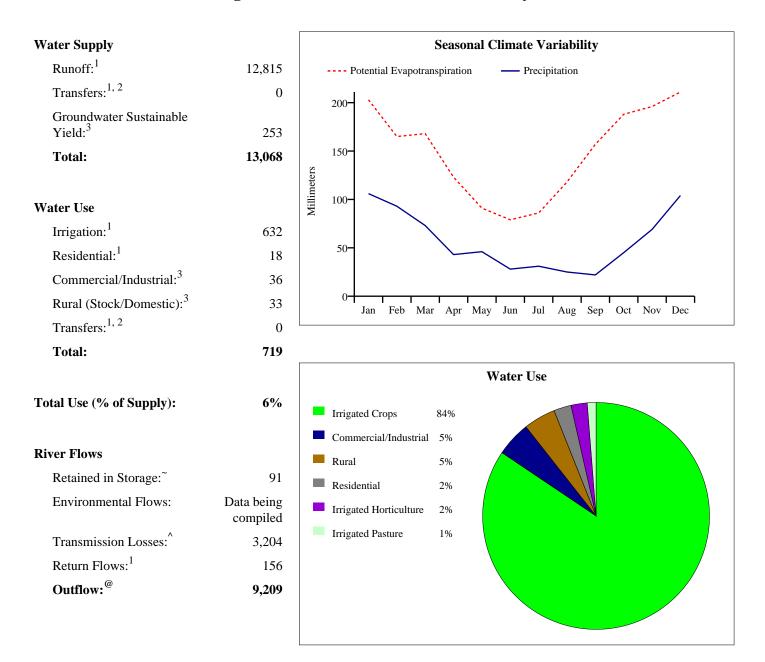
		Muuch	leu Annua	i watei Da	lance		
Land Use Type	Area (sqkm)	Precipitation (ML)	Runoff (ML)	ET (ML)	Deep drainage (ML)	Irrigation (ML)	Return flow (ML)
Closed Forest	2,468	1,988,844	103,926	1,854,974	29,943	0	0
Open Forest	18,392	13,163,990	625,845	12,340,624	197,521	0	0
Plantation	10	13,853	2,025	11,568	260	0	0
Woodland	46,648	32,812,629	2,887,560	29,403,751	521,318	0	0
Woody Pasture	8,102	5,436,222	804,313	4,551,264	80,645	0	0
Shrubby Pasture	122	83,056	12,578	69,335	1,143	0	0
Pasture	56,588	37,901,980	7,226,437	30,136,619	538,925	0	0
Irrigated Pasture	10	6,673	1,259	5,326	88	8,980	2,314
Winter Crops	1,773	1,152,665	211,646	893,943	47,076	0	0
Summer / Fodder Crops	6,425	4,209,912	570,036	3,471,391	168,485	0	0
Irrigated Crops	681	453,985	63,499	372,206	18,280	606,957	140,847
Sugarcane	0	0	0	0	0	0	0
Irrigated Sugarcane	0	0	0	0	0	0	0
Cotton	3	1,876	238	1,564	74	0	0
Irrigated Cotton	0	0	0	0	0	0	0
Horticulture	8	8,606	1,288	7,186	132	0	0
Irrigated Horticulture	20	14,284	1,064	13,023	197	16,546	1,674
Bare Ground	585	391,125	122,847	262,758	5,520	0	0
Intensive Use	137	102,585	27,490	73,644	1,451	0	0
Water	663	512,402	152,615	352,771	7,016	0	0
Entire Basin	142,679	98,293,045	12,814,665	83,860,304	1,618,076	632,482	144,835
NLWRA ¹	142,645	n/a	5,380,000	n/a	n/a	383,066	n/a
AWRC ²	143,000	n/a	7,130,000	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

FITZROY RIVER (QLD)

Average Annual Water Resource Summary (GL)



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)

n/a = Not available