

Dumaresq-Barwon Border Rivers Commission



Annual Statistics 2018-19

*This report is a collation of statistical data provided by the
New South Wales' Department of Planning, Industry and Environment and
WaterNSW; and Queensland's Department of Natural Resources, Mines and
Energy and Sunwater Ltd.*

The information contained has not been verified against independent sources.

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Water Infrastructure

Table 1 - Key features of Border Rivers Commission works

Name	Stream	AMTD (km)	Nearest town/s	Description	FSL above bed (m)	Storage capacity (ML)	Date completed
DAMS							
Glenlyon Dam	Pike Creek	6.4	Stanthorpe Tenterfield Texas	Earth & rockfill	47.4	254,000	1976
WEIRS							
Boggabilla Weir	Macintyre River	283.5	Boggabilla Goondiwindi	Reinforced concrete and earthfill	8.5	5,850	1991
Boomi Weir	Macintyre River	147	Boomi	Steel sheetpiling	4.1	354	1960
Bonshaw Weir	Dumaresq River	126.7	Texas	Steel sheetpiling	2.9	617	1953/58
Coomonga Weir	Coomonga Creek		Toobeah	Steel sheetpiling			1986
Cunningham Weir	Dumaresq River	67.9	Texas	Timber piled (written-off)	4.6	543	1954
Glenarbon Weir	Dumaresq River	57	Yelarbon	Steel sheetpiling	2.7	353	1959
Goondiwindi Weir	Macintyre River	268.8	Goondiwindi	Timber crib (fishway added)	2.8	1,800	1942
Mungindi Weir	Barwon River	4.8	Mungindi	Steel sheetpiling	3.6	730	1936/65

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Name	Stream	AMTD (km)	Nearest town/s	Description	FSL above bed (m)	Storage capacity (ML)	Date completed
REGULATORS							
Boomi Regulator	Boomi River		Boomi	Reinforced concrete with hardwood dropboards			1960
Newinga Regulator	Barwon to Weir River flood channel		Talwood	Reinforced concrete with aluminium dropboards			1993
Regulator No 1	Balonne Minor	163.5	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 1	Culgoa River	162.6	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 2	Balonne Minor	128.9	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 2	Donnegri River	14.9	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 3	Ballandool River	91.4	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 3	Bokhara River	79.8	Dirranbandi	Steel sheetpiling with rock protection			1974
Regulator No 4	Birrie River	274.7	Goodooga	Steel sheetpiling with rock protection			1974
Regulator No 4	Bokhara River	276.2	Goodooga	Steel sheetpiling with rock protection			1974

Table 2 - Glenlyon Dam monthly storage volumes (megalitres)

End of month	2017-18	2018-19
July	189,150	121,620
August	187,872	120,360
September	183,944	111,810
October	182,840	109,155
November	183,392	97,400
December	176,000	85,502
January	155,000	48,748
February	144,508	33,879
March	140,613	31,800
April	130,036	27,902
May	126,856	23,148
June	124,806	23,012

(1) Storage volumes in this table are at 24:00 hrs on the last day of each month as recorded at GS 416315A.

Table 3 - Glenlyon Dam monthly releases / spillway flows (megalitres)

Month	Release 2017-18	Spillway flows 2017-18	Release 2018-19	Spillway flows 2018-19
July	0	0	3,164	0
August	270	0	909	0
September	2,785	0	8,369	0
October	2,402	0	2,567	0
November	466	0	11,645	0
December	7,894	0	12,001	0
January	23,726	0	41,249	0
February	10,329	0	16,353	0
March	3,418	0	2,142	0
April	10,923	0	3,481	0
May	2,047	0	5,273	0
June	1,379	0	0	0

- (1) The monthly releases in this table are the flow volumes as recorded at GS 416309B less any spillway flows
- (2) The monthly spillway flows are the flow volumes as recorded at GS416315A
- (3) Releases in late April & early May were Environmental water for CEWH

Table 4 - Glenlyon Dam recreation statistics

Recreation Visitors 1 July 17 – 30 June 18	Camp sites occupied 1 July 17 – 30 June 18	Recreation Visitors 1 July 18 – 30 June 19	Camp sites occupied 1 July 18 – 30 June 19
62,641	7,215	55,664	6,739

Resource allocation, sharing and use

Table 5 – Supplemented / regulated² and Unsupplemented / supplementary³ water entitlements and off-stream storages

Name	NSW Regulated (megalitres) (1)	QLD Supplemented (megalitres) (1)	NSW Supplementary (megalitres)	QLD Unsupplemented (megalitres)	NSW Off-stream Storages (megalitres)	QLD Off-stream Storages (megalitres)
Pike Creek and Dumaresq River from Glenlyon Dam to Bonshaw Weir	5,012	3,082	2,245	511		
Dumaresq River from Bonshaw Weir to Cunningham Weir (excluding Texas town)	5,287	5,676	2,463	626		
Texas Town		270				
Dumaresq River from Cunningham Weir to Macintyre River junction (excluding Yelarbon town)	436	2,254	516	3,846	400	6,300
Yelarbon Town		106				
Macintyre River from Dumaresq River junction to Goondiwindi Weir (excluding Goondiwindi & Boggabilla towns)	59,949	34,903	25,861	35,526	29,150	125,850
Boggabilla Town	200	n/a		n/a		
Goondiwindi Town		2,100		645		
Macintyre River from Goondiwindi Weir to Boomi Weir	130,715	9,985	58,470	15,940	86,025	25,210
Macintyre River and Barwon River from Boomi Weir to Mungindi Weir (excluding Mungindi town)	53,147	25,988	29,215	42,739	65,600	125,264
Mungindi Town	300	n/a		n/a		
Totals	255,046	84,364	118,770	99,833	181,175	282,624

(1) The statistics for supplemented/regulated water entitlements in this table include all supplemented/regulated water entitlements including entitlements for irrigation, industrial, town water, high security, stock and domestic purposes but they do not include authorities/permits issued for the taking of stock and domestic water under rights granted to riparian landholders

(2) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.

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- (3) Unsupplemented water in QLD is defined as surface or ground water that is not reliant on infrastructure to store or distribute water. This is equivalent to the NSW term of Supplementary water.

Table 6 - Water use from the Border Rivers 1 July 17 – 30 June 18 (megalitres)

Name	NSW Regulated	QLD Supplemented	TOTAL Regulated / Supplemented	NSW Supplementary	QLD Unsupplemented	TOTAL Supplementary / Unsupplemented
Pike Creek and Dumaresq River from Glenlyon Dam to Bonshaw Weir	2,727	2,080	4,807	173	31	204
Dumaresq River from Bonshaw Weir to Cunningham Weir (excluding Texas town)	1,576	3,090	4,666	157	546	703
Texas Town		130	130			
Dumaresq River from Cunningham Weir to Macintyre River junction (excluding Yelarbon town)	1,289	1,670	2,959	16	588	604
Yelarbon Town		120	120			
Macintyre River from Dumaresq River junction to Goondiwindi Weir (excluding Goondiwindi & Boggabilla towns)	28,727	18,650	47,377	1,513	2,266	3,779
Boggabilla Town	159	n/a	159		n/a	
Goondiwindi Town		2,100	2,100			0
Macintyre River from Goondiwindi Weir to Boomi Weir	43,807	3,580	47,387	4,596	1,758	6,354
Macintyre River and Barwon River from Boomi Weir to Mungindi Weir (excluding Mungindi town)	40,064	16,040	56,104	2,278	4,285	6,563
Mungindi Town	239	n/a	239		n/a	
Totals	118,588	47,460	166,048	8,733	9,474	18,207

- (1) The above water use statistics only include water diverted from the Border Rivers under the authority of the Border Rivers water entitlements. Water transferred from a tributary (e.g. the Macintyre Brook) to the Border Rivers and then diverted from the Border Rivers is not included in these statistics. Water temporarily transferred from one state to the other is reported as being use in the state of origin not the state of destination
- (2) Water taken by both Qld and NSW irrigators under the water sharing rules permitting small enterprises upstream of Goondiwindi Weir to pump from small unregulated inflows for direct irrigation, is included in the states' supplementary/unregulated water use statistics
- (3) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.

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- (4) Unsupplemented water in QLD is defined as surface or ground water that is not reliant on infrastructure to store or distribute water. This is equivalent to the NSW term of Supplementary water.

Table 7 - Water use from the Border Rivers 1 July 18 – 30 June 19 (megalitres)

Name	NSW Regulated	QLD Supplemented	TOTAL Regulated / Supplemented	NSW Supplementary	QLD Unsupplemented	TOTAL Supplementary / Unsupplemented
Pike Creek and Dumaresq River from Glenlyon Dam to Bonshaw Weir	2,336	8,270	10,606	0	0	0
Dumaresq River from Bonshaw Weir to Cunningham Weir (excluding Texas town)	1,846	2,450	4,296	0	0	0
Texas Town		140	140			
Dumaresq River from Cunningham Weir to Macintyre River junction (excluding Yelarbon town)	776	710	1,486	0	0	0
Yelarbon Town		90	90			
Macintyre River from Dumaresq River junction to Goondiwindi Weir (excluding Goondiwindi & Boggabilla towns)	36,853	7,300	44,153	0	0	0
Boggabilla Town	146		146			
Goondiwindi Town		2,070	2,070			
Macintyre River from Goondiwindi Weir to Boomi Weir	73,432	7,930	81,362	0	0	0
Macintyre River and Barwon River from Boomi Weir to Mungindi Weir (excluding Mungindi town)	17,864	5,930	23,794	0	0	0
Mungindi Town	219		219			
Totals	133,470	34,890	168,360	0	0	0

- (1) The above water use statistics only include water diverted from the Border Rivers under the authority of the Border Rivers water entitlements. Water transferred from a tributary (e.g. the Macintyre Brook) to the Border Rivers and then diverted from the Border Rivers is not included in these statistics. Water temporarily transferred from one state to the other is reported as being used in the state of origin not the state of destination
- (2) Water taken by both Qld and NSW irrigators under the water sharing rules permitting small enterprises upstream of Goondiwindi Weir to pump from small unregulated inflows for direct irrigation, is included in the states' supplementary/unregulated water use statistics
- (3) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.

- (4) Unsupplemented water in QLD is defined as surface or ground water that is not reliant on infrastructure to store or distribute water. This is equivalent to the NSW term of Supplementary water.

Table 8 – Summary of resource assessments (Border Rivers) 1 July 17 – 30 June 18 (gigalitres)

Bulk Accounts	QLD Account balance 1/07/2017 (a)	QLD Total use/loss for year (b)	QLD Total distribution for year (c)	QLD Account balance 1/07/2018 (a-b+c)	NSW Account balance 1/07/2017 (a)	NSW Total use/loss for year (b)	NSW Total distribution for year (c)	NSW Account balance 1/07/2018 (a-b+c)
Storage Loss (Glenlyon Dam)	7.75	12.17	8.85	4.43	6.20	10.14	8.69	4.75
Storage Loss (Pindari Dam)	n/a	n/a	n/a	n/a	18.00	13.7	6.55	10.85
Essential Supplies (minimum release)	0	0	0	0	6.08	8.62	8	5.46
Essential Supplies (other)	6.94	2.19	1.73	6.48	24.71	4.27	3.46	23.9
Essential Supplies Delivery Loss	2.64	0.74	0.53	2.43	10.31	1.48	1.04	9.87
General Use	70.11	44.1	10.74	36.75	250.67	128.58	25.57	147.66
General Use Delivery Loss	21.04	13.23	2.03	9.84	75.21	38.57	6.31	42.95

Table 9 – Summary of resource assessments (Border Rivers) 1 July 18 – 30 June 19 (gigalitres)

Bulk Accounts	QLD Account balance 1/07/2018 (a)	QLD Total use/loss for year (b)	QLD Total distribution for year (c)	QLD Account balance 1/07/2019 (a-b+c)	NSW Account balance 1/07/2018 (a)	NSW Total use/loss for year (b)	NSW Total distribution for year (c)	NSW Account balance 1/07/2019 (a-b+c)
Storage Loss (Glenlyon Dam)	4.43	6.11	1.69	0.01	4.75	6.6	3.29	1.44
Storage Loss (Pindari Dam)	n/a	n/a	n/a	n/a	10.85	6.93	-2.08	1.84
Essential Supplies (minimum release)	0	0	0	0	5.46	0.07	-5.39	0
Essential Supplies (other)	6.48	2.11	0.16	4.53	23.90	7.69	-0.4	15.81
Essential Supplies Delivery Loss	2.43	1.26	-0.85	0.32	9.87	4.61	0	5.26
General Use	36.75	33.51	0	3.24	147.66	143.01	0	4.65
General Use Delivery Loss	9.84	10.07	0.23	0.00	42.95	42.91	-0.04	0.00

Table 10 - Access to Unsupplemented/supplementary water from the Border Rivers

Month	1 July 17 - 30 June 18 Access by small irrigation enterprises upstream of Goondiwindi Weir	1 July 17 - 30 June 18 General access to unregulated flows(1)	1 July 18 - 30 June 19 Access by small irrigation enterprises upstream of Goondiwindi Weir	1 July 18 - 30 June 19 General access to unregulated flows(1)
July	31	2 days / 4.0%	-	-
August	15	-	-	-
September	-	-	-	-
October	-	3 Days / 4.5%	-	-
November	-	-	-	-
December	-	-	-	-
January	-	-	-	-
February	-	-	-	-
March	-	-	-	-
April	-	-	-	-
May	-	-	-	-
June	-	-	-	-

- (1) General access to unregulated flows is authorised in hours and days in Queensland and as a percentage in New South Wales
- (2) Unsupplemented water in QLD is defined as surface or ground water that is not reliant on infrastructure to store or distribute water. This is equivalent to the NSW term of Supplementary water.

Table 11 – Irrigated production in the Border Rivers (hectares)

Crop	2017-18 NSW	2017-18 QLD	2017-18 TOTAL	2018-19 NSW	2018-19 QLD	2018-19 TOTAL
Cotton	29,756	18,000	47,756	15,930	3,500	19,430
Lucerne	550	550	1,100	450	400	850
Cereals	650	2,100	2,750	850	1,250	2,100
Peanuts	100	0	100	Nil	0	0
Fodder crops	370	300	670	330	200	530
Horticultural crops	360	0	360	360	0	360
Other	100	80	180	130	100	230
Total	31,886	21,030	52,916	18,050	5,450	23,500

- (1) The irrigated production statistics in this table include the crops grown on properties which take all or part of their irrigation water supplies from the Border Rivers. Crops grown on properties not supplied at least in part from the Border Rivers are not included in this table
- (2) The statistics for each year include the winter crop areas planted during the year

Table 12 - Groundwater allocation/entitlements in the Border Rivers Groundwater Area

Type	NSW ⁽¹⁾	QLD
Issued allocation/entitlement	15,402	14,421 ⁽²⁾
Allocation/entitlement issued, bores constructed	15,402	14,421
Allocation/entitlement issued, bores not constructed	1	0
Number of entitlements	28	26
Number of bores constructed	49	43 ⁽³⁾
Number of applications outstanding	0	0

(1) The figures provided for NSW are for the area defined as the NSW Border Rivers Upstream Keetah Bridge Alluvial Groundwater Source

(2) The Queensland figures do not include the allocation issued in the shallow aquifer, which is about 3,500 ML

(3) Eight of the forty-three bores constructed are not equipped

(4) Note: on the 1 June 2012 the "Water Sharing Plan for the NSW Border Rivers Unregulated and Alluvial Water Sources (the plan)" commenced.

In the plan, the area of the NSW alluvium that is part of the NSW/QLD Border Rivers Commission agreement is the NSW Border Rivers Upstream of Keetah Bridge Alluvial Groundwater Source.

The commencement of the plan turns on the Water Management Act 2000 in the area of the plan. This Act allows for trading of unit shares. You do not have to own land to own water. The number aquifer access licences can grow (if holders split share holdings) or reduce (if holders amalgamate share holdings) and the number of extraction points (bores) can also grow or reduce. The total number of shares will remain the same and usage will be restricted to the long term average extraction limit.

As of 4 September 2019 the following statics are in place:

Description	Value
Total amount of Local Water Utility Access ML	10
Total number of Local Water Utility Access extraction points	1
Total number of Aquifer Access Licence unit shares	15,392 ⁽⁵⁾
Long term average extraction limit ML	8,085
Total number of Aquifer Access Licences	27
Total number of Aquifer Access Licence extraction points completed	49
Total number of Aquifer Access Licences extraction points not completed	1

(5) At the commencement of the plan the available water determination is one ML per unit share

Table 13 - Groundwater use in the Border Rivers Groundwater Area (megalitres)

1 July 17 – 30 June 18 NSW	1 July 17 – 30 June 18 QLD	1 July 18 – 30 June 19 NSW	1 July 18 – 30 June 19 QLD
6,121	7,877	8,738	8,705

Resource Management

Table 14 - Beardmore Dam environmental, stock and domestic water inflow, storage and outflow / releases #

Month	2017-18 Inflow (ML)	2017-18 Outflow / Release (ML)	2017-18 Storage at end of month (ML)	2018-19 Inflow (ML)	2018-19 Outflow / Release (ML)	2018-19 Storage at end of month (ML)
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	7,800	6,913	900	2,845 ⁽²⁾	0	0
November	4,600	1,530	3,900	65 ⁽²⁾	0	0
December	0	3,659	35,983	10,010 ⁽²⁾	4,880	785
January	0	0	0	470	1,230	25
February	2,800	0	2,800	0	0	20
March	23,900 ⁽¹⁾	20,400	5,400	0	0	15
April	0	4,781	500	4,360	5,585	-1,260 ⁽³⁾
May	0	0	500	8,010	6,750	0
June	0	0	500 ⁽²⁾	0	0	0
Totals	39,100	37,283	n/a	25,760	18,445	n/a

The first 730 megalitres per day of inflow to Beardmore Dam is accounted for as environmental, stock and domestic water under section 275 of the Condamine and Balonne resource operations plan

- (1) Includes approx. 7650 megalitres to the environmental, stock & domestic water account under the flow event management rules for managing low flows. Refer Section 168(3) of the Condamine and Balonne Water Management Protocol
- (2) Includes replacing approx. 7650 megalitres of supplemented water released under the low flow event management rules. Refer to Section 173 of the Condamine and Balonne Water Management Protocol
- (3) Overdrawn volume replaced from subsequent inflows

Table 15 - Guidelines for physical and chemical stressors - ANZECC (2000)

Water quality indicator		Default trigger value (1)	Notes
Salinity (μScm^{-1})	Upland rivers (2)	350	Conductivity may be higher during low flow periods
Salinity (μScm^{-1})	Lowland rivers	300	Conductivity may be higher during low flow periods
Salinity (μScm^{-1})	Lakes and reservoirs	20 - 30	Conductivity in lakes and reservoirs is generally low but will vary depending on catchment geology
Turbidity (NTU)	Upland rivers (2)	25	High turbidities may be observed during high flow events
Turbidity (NTU)	Lowland rivers	50	High turbidities may be observed during high flow events
Turbidity (NTU)	Lakes and reservoirs	1 - 20	Deep reservoirs will generally have a lower turbidity than shallow reservoirs
Total Nitrogen (mgL^{-1})	Upland rivers (2)	0.2	
Total Nitrogen (mgL^{-1})	Lowland rivers	0.6	
Total Nitrogen (mgL^{-1})	Lakes and reservoirs	0.35	
Total Phosphorus (mgL^{-1})	Upland rivers (2)	0.02	
Total Phosphorus (mgL^{-1})	Lowland rivers	0.05	Above these levels excessive algal growth may occur
Total Phosphorus (mgL^{-1})	Lakes and reservoirs	0.01	Above these levels excessive algal growth may occur

- (1) The default trigger values provide a guide to the value or range of values of the specific water quality indicator, which, if exceeded, may indicate conditions detrimental to the health of the ecosystem.
- (2) Upland rivers are those above 150m altitude

Table 16 - Summary of water quality 2017-18

Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Dumaresq Tributaries	416003	Tenterfield Creek at Clifton	10	255	365	526	10	0.02	0.05	0.10	10	0.42	0.72	0.90	10	2.1	3.1	10.9
Dumaresq Tributaries	416310	Severn River at Farnbro	11	209	228	240	11	0.03	0.04	0.06	11	0.53	0.60	0.83	11	3.4	6.1	8.0
Dumaresq Tributaries	416303	Pike Creek U/S Glenlyon Dam	3	276	284	301	3	0.02	0.03	0.03	3	0.27	0.29	0.46	3	1.3	2.0	12.4
Dumaresq Tributaries	416309	Pike Creek at Glenlyon Dam Tailwater	12	189	210	526	12	0.03	0.06	0.17	12	0.43	0.74	1.10	5	2.0	2.4	6.4
Dumaresq Tributaries	416032	Mole River at Donaldson	10	223	291	352	10	0.02	0.04	0.06	10	0.34	0.43	0.51	10	2.9	4.6	8.6
Dumaresq Tributaries	416008	Beardy River at Haystack	12	200	230	306	12	0.02	0.03	0.05	12	0.24	0.36	0.46	12	2.5	4.5	9.6
Dumaresq Tributaries	416312	Oaky Creek at Texas	3	524	543	585	3	0.03	0.03	0.03	3	0.36	0.37	0.42	3	6.0	6.9	7.7

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Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Dumaresq Tributaries	416415	Macintyre Brook at Booba Sands	12	313	419	492	12	0.03	0.06	0.08	12	0.58	0.85	0.97	12	9.1	12.8	17.0
Dumaresq River	416007	Macintyre River at Bonshaw Weir	12	220	235	286	12	0.02	0.04	0.05	12	0.44	0.51	0.67	12	3.1	4.7	6.0
Dumaresq River	416049	Macintyre River at Mauro	12	220	252	328	12	0.02	0.04	0.08	12	0.41	0.55	0.68	12	4.1	5.7	9.8
Macintyre River	416012	Macintyre River at Holdfast	12	202	284	368	12	0.05	0.14	0.16	12	0.37	0.61	0.75	12	7.7	14.7	25.6
Macintyre River	41610044	Salisbury Bridge (Boggabilla)	11	214	287	440	11	0.06	0.11	0.15	11	0.55	0.59	0.70	11	7.2	11.9	34.9
Macintyre River	416048	Macintyre River at Kanowna	11	210	311	380	11	0.07	0.12	0.16	11	0.59	0.67	0.85	11	44.5	54.7	102.0
Barwon River	416001	Barwon River at Mungindi	11	221	280	368	11	0.05	0.08	0.20	11	0.51	0.65	0.84	11	33.6	46.8	198.0
Weir River	416202	Weir River at Talwood	11	101	147	160	11	0.13	0.21	0.26	11	1.00	1.20	1.50	11	432.0	538.0	894.0
Intersecting Streams	424002	Paroo at Willara crossing	10	67	103	135	10	0.14	0.24	0.38	10	0.80	1.10	2.00	10	423.7	593.0	754.9

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Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Intersecting Streams	423002	Warrego River at Fords Bridge	5	107	151	195	5	0.14	0.23	0.27	5	0.70	0.73	0.86	5	37.3	304.0	943.2
Intersecting Streams	422015	Culgoa River at Brenda	9	164	208	293	9	0.15	0.27	0.35	9	0.88	1.10	1.20	9	371.2	483.0	836.4
Intersecting Streams	422014	Bokhara River at Goodooga	10	154	253	457	10	0.25	0.33	0.51	10	0.98	1.38	1.70	9	380.6	518.0	722.8
Intersecting Streams	422013	Birrie River near Goodooga	4	139	189	371	4	0.21	0.31	0.42	4	0.92	1.20	2.10	4	284.0	404.0	743.8
Intersecting Streams	422012	Narran River at New Angledool	10	159	168	269	10	0.05	0.15	0.27	10	0.56	1.03	1.14	10	16.7	200.5	481.4
Glenlyon Dam	416315	Glenlyon 1: Top	12	195	206	216	12	0.02	0.04	0.05	12	0.85	1.06	1.20	12	2.0	2.9	3.0
Glenlyon Dam	416315	Glenlyon 1: Middle	12	184	206	218	12	0.01	0.03	0.04	12	0.61	0.81	1.08	12	1.4	2.0	3.0
Glenlyon Dam	416315	Glenlyon 1: Bottom	12	187	201	210	12	0.03	0.07	0.13	12	0.77	0.97	1.10	12	1.5	2.0	3.0

(1) The table provides information on the median value (middle value), the 10th percentile (10% of the samples are below this value) and the 90th percentile (90% of the samples are below this value; v.v. 10% of the samples are greater than this value).

Table 17 - Summary of water quality 2018-19

Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Dumaresq Tributaries	416003	Tenterfield Creek at Clifton	5	498	553	596	5	0.01	0.02	0.03	5	0.42	0.70	0.76	5	2.2	2.3	2.9
Dumaresq Tributaries	416310	Severn River at Farnbro	10	177	250	288	10	0.04	0.09	0.32	10	0.57	1.25	4.13	10	5.4	12.1	42.0
Dumaresq Tributaries	416303	Pike Creek U/S Glenlyon Dam																
Dumaresq Tributaries	416309	Pike Creek at Glenlyon Dam Tailwater	12	223	240	316	12	0.01	0.04	0.08	12	0.60	0.80	1.10	12	2.0	3.0	3.9
Dumaresq Tributaries	416032	Mole River at Donaldson	0				1	0.01	0.01	0.01	1	0.70	0.70	0.70	0			
Dumaresq Tributaries	416008	Beardy River at Haystack	2	218	300	383	2	0.02	0.03	0.03	2	0.21	0.25	0.29	2	5.5	6.0	6.6
Dumaresq Tributaries	416312	Oaky Creek at Texas	0				0				0				0			
Dumaresq Tributaries	416415	Macintyre Brook at Booba Sands	12	426	490	611	12	0.01	0.05	0.07	12	0.61	0.90	1.20	12	9.8	14.3	22.4

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Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Dumaresq River	416007	Macintyre River at Bonshaw Weir	12	238	253	273	12	0.01	0.02	0.17	12	0.40	0.60	1.74	12	3.2	4.3	8.7
Dumaresq River	416049	Macintyre River at Glenarbon Weir	12	187	257	278	12	0.01	0.03	0.05	12	0.40	0.65	0.89	12	5.7	11.6	19.6
Macintyre River	416012	Macintyre River at Holdfast	12	211	229	405	12	0.02	0.08	0.12	12	0.40	0.50	0.70	12	10.2	16.0	21.2
Macintyre River	41610044	Salisbury Bridge (Boggabilla)	12	227	254	314	12	0.02	0.06	0.12	12	0.50	0.65	0.79	12	6.4	12.6	23.0
Macintyre River	416048	Macintyre River at Kanowna	10	256	280	345	10	0.04	0.09	0.16	10	0.49	0.90	1.01	10	45.7	62.7	222.2
Barwon River	416001	Barwon River at Mungindi	12	256	277	323	12	0.01	0.05	0.08	12	0.42	0.65	0.80	12	12.9	35.4	49.8
Weir River	416202	Weir River at Talwood	12	105	115	183	12	0.22	0.38	0.53	12	0.80	1.20	1.70	12	312.2	514.5	728.1
Intersecting Streams	424002	Paroo at Willara crossing	10	69	98	148	10	0.34	0.58	1.16	10	1.34	1.95	5.17	10	404.1	656.0	893.2

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Basin	Site no	Location	Electrical Conductivity [Number of samples]	Electrical Conductivity mS/cm [10th %ile]	Electrical Conductivity mS/cm [Med]	Electrical Conductivity mS/cm [90th]	Total Phosphorus [Number of samples]	Total Phosphorus mg/L [10th %ile]	Total Phosphorus mg/L [Med]	Total Phosphorus mg/L [90th]	Total Nitrogen [Number of samples]	Total Nitrogen (mg/L) [10th %ile]	Total Nitrogen (mg/L) [Med]	Total Nitrogen (mg/L) [90th]	Turbidity [Number of samples]	Turbidity (NTU) [10th %ile]	Turbidity (NTU) [Med]	Turbidity (NTU) [90th]
Intersecting Streams	423002	Warrego River at Fords Bridge	6	94	134	196	6	0.38	0.51	1.18	6	1.00	1.35	2.20	6	440.0	555.0	1383.0
Intersecting Streams	422015	Culgoa River at Brenda	8	196	354	1168	8	0.35	0.58	1.01	8	1.41	1.90	3.49	8	401.6	574.5	1000.0
Intersecting Streams	422014	Bokhara River at Goodooga	7	188	262	592	7	0.35	0.60	0.69	7	1.46	2.00	2.24	7	233.6	492.0	665.4
Intersecting Streams	422013	Birrie River near Goodooga	2	233	293	353	2	0.46	0.48	0.50	2	1.52	1.60	1.68	2	487.8	579.0	670.2
Intersecting Streams	422012	Narran River at New Angledool	7	160	207	322	7	0.10	0.16	0.34	7	0.96	1.10	1.48	7	64.2	167.0	347.2
Glenlyon Dam	416315	Glenlyon 1: Top	12	220.4	236.85	265.74	12	0.01	0.02	0.03	12	0.62	0.95	1.10	12	2.00	3.10	4.60
Glenlyon Dam	416315	Glenlyon 1: Middle	12	220.1	229.55	260.94	12	0.01	0.02	0.05	12	0.61	1.00	1.28	12	1.70	2.90	4.20
Glenlyon Dam	416315	Glenlyon 1: Bottom	12	220.7	232.95	261.54	12	0.01	0.02	0.06	12	0.71	1.00	1.10	12	1.70	3.00	4.50

(1) The table provides information on the median value (middle value), the 10th percentile (10% of the samples are below this value) and the 90th percentile (90% of the samples are below this value; v.v. 10% of the samples are greater than this value).

Table 18 - Stream gauging stations (Border Rivers)

AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
416001	Barwon River	Mungindi	AR	Yes	1889	Water NSW	74	7.3	7	(2018-19)	3,131	(1950-51)	409
416002	Macintyre River	Boggabilla	AR	Yes	1895	Water NSW	254	161	29	(1919-20)	4,510	(1950-51)	609
416003	Tenterfield Creek	Clifton	AR	Yes	1921	Water NSW	5.5	0.4	0.4	(2018-19)	235	(1949-50)	36.4
416006	Severn River	Ashford	AR	Yes	1934	Water NSW	182	172	17	(1941-42)	1,389	(1950-51)	182
416007	Dumaresq River	Bonshaw Weir	AR	Yes	1934	Water NSW	71.9	91.2	54	(1993-94)	1,739	(2010-11)	238
416008	Beardy River	Haystack	AR	Yes	1934	Water NSW	6.5	0.2	0.2	(2018-19)	219	(2016-17)	31
416010	Macintyre River	Wallangra	AR	Yes	1937	Water NSW	46.9	3.4	3.4	(2018-19)	667	(1970-71)	74
416011	Dumaresq River	Roseneath	AR	Yes	1937	Water NSW	87.4	103	36	(1993-94)	1,603	(1955-56)	261
416012	Macintyre River	Holdfast	AR	Yes	1951	Water NSW	228	166	49	(1957-58)	1,682	(1955-56)	275
416020	Ottleys Creek	Coolatai	AR	Yes	1967	Water NSW	1.9	0.7	0.7	(2018-19)	65	(2000-01)	8

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
416032	Mole River	Donaldson	AR	Yes	1969	Water NSW	11.9	0	0	(2018-19)	465	(1975-76)	71
416037	Boomi River	Offtake	AR	Yes	1973	Water NSW	11.4	7.4	3	(1994-95)	149	(2011-12)	29
416040	Dumaresq River	Glenarbon Weir	AR	Yes	1996	Water NSW	63	68.2	63	(2017-18)	1,793	(2010-11)	180
416043	Macintyre River	Boomi Weir	AR	Yes	1976	Water NSW	146	46.5	21	(1994-95)	551	(2010-11)	154
416047	Macintyre River	Terrewah	AR	Yes	1985	Water NSW	206	90	31	(1994-95)	1,488	(2010-11)	225
416048	Macintyre River	Kanowna	AR	Yes	1988	Water NSW	106	29.2	25	(1994-95)	727	(1998-99)	134
416201A	Macintyre River	Goondiwindi	AR	Yes	1950	DNRME	239	158	61	(1994-95)	4,616	(1950-51)	686
416201B	Macintyre River	Goondiwindi Weir	AR	Yes	1997	DNRME	222	151	158	(2006-07)	2,421	(2010-11)	279
416202A	Weir River	Talwood	AR	Yes	1949	DNRME	15	10.7	0	(2006-07)	687	(1995-96)	59
416305B	Brush Creek	Beebo	AR	Yes	1950	DNRME	0	1	0	(Several)	55	(1995-96)	2.2
416309B	Pike Creek	Glenlyon Dam Tailwater	AR	Yes	1973	DNRME	60	100	4	(1976-77)	180	(1988-89)	49
416310A	Dumaresq River	Farnbro	AR	Yes	1962	DNRME	4	0	0	(2018-19)	433	(2010-11)	49
416312A	Oakey Creek	Texas	AR	Yes	1969	DNRME	0.2	0	0	(2018-19)	99	(1995-96)	4.5

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
416315A	Pike Creek	Glenlyon Dam Headwater	AR	Yes	1977	DNRME	0	0	0	(Several)	133	(2010-11)	0
416402C	Macintyre Brook	Inglewood	AR	Yes	1953	DNRME	27	18	6	(1994-95)	542	(1995-96)	36
416415A	Macintyre Brook	Booba Sands	AR	Yes	1987	DNRME	17	9.4	4	(1994-95)	630	(1995-96)	31

(1) AR = automatic recorder; SG = staff gauge, Established date = commencement date of Hydstra data records

Table 19 - Stream gauging stations (Intersecting Streams)

AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
417001	Moonie River	Gundablouie	AR	Yes	1945	Water NSW	13.3	0	0	(2018-19)	674	(2011-12)	60
417204A	Moonie River	Fenton	AR	Yes	1971	DNRME	9	0	0	(2018-19)	670	(1975-76)	62
422005	Bokhara River	Goodwin's	AR	Yes	1944	Water NSW	0.713	0.3	0	(Several)	652	(1955-56)	24
422006	Culgoa River	Downstream Collerina (Kenebree)	AR	Yes	1944	Water NSW	13.3	6	6	(2018-19)	2341	(1989-90)	276
422010	Birrie River	Talawanta	AR	Yes	1964	Water NSW	0	0.04	0	(Several)	379	(1975-76)	22
422011	Culgoa River	Upstream Collerina (Mundiwa)	AR	Yes	1964	Water NSW	14.6	11	6	(2001-02)	1898	(2010-11)	160
422030	Narran River	Angledool #2	AR	Yes	1959	Water NSW	3.34	0	0	(Several)	697	(2010-11)	81
422013	Birrie River	Near Goodooga	AR	Yes	1964	Water NSW	1	0	0	(Several)	510	(2010-11)	27
422032	Bokhara River	Goodooga	AR	Yes	1915	Water NSW	2.23	0	0	(Several)	445	(2010-11)	14.3

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
422015	Culgoa River	Brenda	AR	Yes	1960	Water NSW	16.1	3.3	0	(1992-93)	2530	(2010-11)	110
422016	Narran River	Wilby Wilby	AR	Yes	1964	Water NSW	0.9	0	0	(Several)	623	(2010-11)	55
422017	Culgoa River	Weilmoringle	AR	Yes	1964	Water NSW	14.4	0	0	(1992-93)	1900	(2010-11)	103
422204A	Culgoa River	Whyenbah	AR	Yes	1965	DNRME	33	10.4	2.7	(1992-93)	2247	(2010-11)	311
422206A	Narran River	Dirranbandi- Hebel Road	AR	Yes	1965	DNRME	6.5	1.3	0.2	(1992-93)	1993	(2010-11)	86
422207A	Ballandool River	Hebel-Bollon Road	AR	Yes	1965	DNRME	2.9	0.2	0	(1992-93)	390	(2010-11)	15
422209A	Bokhara River	Hebel	AR	Yes	1967	DNRME	5.2	1.1	0.5	(1992-93)	374	(2010-11)	20
422211A	Briarie Creek	Woolerbilla- Hebel Road	AR	Yes	1992	DNRME	0.006	0	0	(Several)	953	(2010-11)	7
423001	Warrego River	Fords Bridge	AR	Yes	1921	Water NSW	0.44	6.9	0.1	(2012-13)	344	(1989-90)	6
423002	Warrego River	Fords Bridge (Bywash)	AR	Yes	1921	Water NSW	8	24	0	(1957-58)	249	(1955-56)	35
423202C	Warrego River	Cunnamulla Weir	AR	Yes	1992	DNRME	70	320	0	(2013-14)	1832	(2009-10)	137

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2017-18 Total Flow (MLx103)	2018-19 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
424002	Paroo River	Willara Crossing	AR	Yes	1975	Water NSW	14	108	7.79	(2012-13)	2072	(1975-76)	162
424201A	Paroo River	Caiwarro	AR	Yes	1967	DNRME	24	214	13	(2012-13)	2041	(2009-10)	291
11202	Bulloo River	Autumnvale	AR	Yes	1967	DNRME	85	449	19	(1976-77)	3241	(1973-74)	388

(2) AR = automatic recorder; SG = staff gauge, Established date = commencement date of Hydstra data records

Table 20 - Groundwater monitoring network

Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2017-18 Max (m)	Depth to WL 2017-18 Min (m)	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)
41640001	Keetah Crossing	QLD	A	87.3	No	1985	5.82	4.36	5.47	4.17
41640001	Keetah Crossing	QLD	B	46.8	No	1985	6.06	5.74	6.66	6.19
41640002	Keetah Crossing	QLD	A	17.8	No	1985	Dry (8.20)	Dry (8.20)	Dry (8.20)	Dry (8.20)
41640003	Yelarbon Desert	QLD	A	92.4	No	1985	4.29	3.87	4.83	4.31
41640003	Yelarbon Desert	QLD	B	47.9	No	1985	5.86	5.68	6.21	5.97
41630009	Glenarbon	QLD	A	93	No	1996	8.19	7.79	8.58	8.41
41630042	David Muggleton	QLD	A	13.3	No	1959	7.68	7.59	7.82	7.71
41630039	'Eldorado'	QLD	A	16.7	No	1959	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630072	Cunningham Weir	QLD	A	90.4	Yes	1985	49.76	36.5	51.83	38.49
41630072	Cunningham Weir	QLD	B	41.4	Yes	1985	35.3	32.14	36.99	35.58
41630072	Cunningham Weir	QLD	C	10.4	Yes	1985	5.81	5.36	7.01	6.7
41630064	Texas	QLD	A	52.5	No	1985	28.26	20.52	34.57	25.08
41630064	Texas	QLD	B	28.5	No	1985	21.1	16.9	23.01	20.17
41630066	Bill & Tater	QLD	A	90.4	Yes	1985	>40.15	21.6	45.54	28.81
41630066	Bill & Tater	QLD	B	45.9	Yes	1985	34.17	22.52	42.43	32.26
41630067	Bill & Tater	QLD	A	12.2	Yes	1985	5.78	4.87	6.3	5.78

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2017-18 Max (m)	Depth to WL 2017-18 Min (m)	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)
41630063	Finlay's	QLD	A	100.6	No	1983	14.67	6.89	21.52	8.85
41630063	Finlay's	QLD	B	64.6	No	1983	14.39	7.8	21.15	8.7
41630062	Finlay's	QLD	A	17.4	No	1985	5.85	5.09	17.89	5.61
41630071	Finlay's	QLD	A	48.2	No	1985	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630071	Finlay's	QLD	B	41.2	No	1985	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630059	John Moore	QLD	A	101.7	No	1985	6.73	6.16	7.18	6.75
41630069	John Moore	QLD	A	92	No	1985	19.28	9.68	22.45	11.88
41630069	John Moore	QLD	B	35.9	No	1985	16.58	8.46	19.04	9.06
41630069	John Moore	QLD	C	15.4	No	1985	7.84	6.18	8.95	6.95
41630060	John Moore	QLD	A	12.1	No	1985	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630058	John Moore	QLD	A	10.6	No	1985	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630070	Phillip Harpham	QLD	A	9.2	No	1985	7.44	4.69	8.35	7.79
41630004	V and E Sattolo	QLD	A	11.8	No	1960	11.7	11.4	11.95	11.7
41630003	V and E Sattolo	QLD	A	27.1	No	1961	N.O.N.	N.O.N.	N.O.N.	N.O.N.
41630002	V and E Sattolo	QLD	A	29.9	No	1961	11.83	9.96	15.1	11.9
GW036697	Keetah Bridge	NSW	1	20	Yes	1987	8.91	8.87	8.95	8.93
GW036697	Keetah Bridge	NSW	2	64	Yes	1987	6.43	4.74	6.98	6.9
GW036697	Keetah Bridge	NSW	3	83.5	Yes	1987	6.89	6.84	5.91	5.01

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2017-18 Max (m)	Depth to WL 2017-18 Min (m)	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)
GW093060	Smithfield Section	NSW	1	13.4	No	2009	8.35	7.99	8.58	8.24
GW093061	Smithfield Section	NSW	1	15.1	No	2009	9.92	9.59	10.17	9.78
GW093061	Smithfield Section	NSW	2	25.3	No	2009	19.82	19.37	20.23	20.01
GW040635	Smithfield Section	NSW	1	15.9	No	1960	8.79	8.55	9.21	8.81
GW040636	Smithfield Section	NSW	1	11.3	No	1960	7.75	7.09	8.99	7.93
GW040637	Smithfield Section	NSW	1	7.9	No	1960	6.39	5.73	7.02	6.65
GW040638	Smithfield Section	NSW	1	11.9	No	1960	9.74	9.39	11.29	10.21
GW093062	Smithfield Section	NSW	1	15.6	No	2009	9.34	8.92	9.61	9.21
GW40771	Smithfield Section	NSW	1	30	Yes	1994	36.7	34.06	29.23	28.85
GW40771	Smithfield Section	NSW	2	37	Yes	1994	33.97	32.34	34.82	33.78
GW40771	Smithfield Section	NSW	3	50	Yes	1994	29.63	28.25	37.65	35.87
GW040641	Riverstone Section	NSW	1	35	No	1960	8.76	7.44	10.53	8.74

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2017-18 Max (m)	Depth to WL 2017-18 Min (m)	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)
GW040642	Riverstone Section	NSW	1	9.7	No	1960	6.51	6.16	6.93	6.71
GW040644	Riverstone Section	NSW	1	9.5	No	1960	8.19	7.79	8.58	8.41
GW040646	Riverstone Section	NSW	1	7.7	No	1960	6.82	6.01	7.46	6.82
GW040647	Hopwood Section	NSW	1	12.8	No	1959	9	8.83	(Dry) 9.06	(Dry)(9.00)
GW040648	Hopwood Section	NSW	1	11.2	No	1959	8.82	8.41	9.17	8.98
GW040649	Hopwood Section	NSW	1	28.9	No	1959	7.88	7.42	8.43	8.08
GW040650	Hopwood Section	NSW	1	12.6	No	1959	8.62	8.58	9.19	8.6
GW040652	Hopwood Section	NSW	1	12.2	No	1959	8.42	7.94	8.91	8.61
GW040653	Hopwood Section	NSW	1	10.9	No	1959	8.29	7.83	8.78	8.45
GW93063	Lochiel Section	NSW	1	12	No	2009	7.45	7.21	7.72	7.39
GW93063	Lochiel Section	NSW	2	21.7	No	2009	7.53	7.21	7.75	7.57
GW93064	Lochiel Section	NSW	1	13.3	No	2009	9.02	8.71	9.29	8.9

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2017-18 Max (m)	Depth to WL 2017-18 Min (m)	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)
GW93064	Lochiel Section	NSW	2	22.3	No	2009	9.04	8.74	9.24	6.18
GW93065	Lochiel Section	NSW	1	12.6	No	2009	7.77	7.31	8.11	7.88
GW93065	Lochiel Section	NSW	2	27	No	2009	7.77	7.37	8.07	7.87
GW40829	Lochiel Section	NSW	1	12	No	1996	9.68	9.26	9.72	9.46
GW40829	Lochiel Section	NSW	2	42	No	1996	9.46	9.06	9.97	9.68
GW40830	Lochiel Section	NSW	1	27	No	1996	10.32	10.27	(Dry) 10.34	(Dry) 10.32
GW40831	Lochiel Section	NSW	1	44	Yes	1996	42.32	37.09	37.27	36.43
GW40831	Lochiel Section	NSW	2	96	Yes	1996	37.18	35.92	43.2	41.72

(1) Monitoring bore has no information available

(2) N.O.N. - not on network