

Dumaresq-Barwon Border Rivers Commission



Annual Statistics 2019-20

*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	2018-19	2019-20
July	121,620	22,978
August	120,360	22,782
September	111,810	15,208
October	109,155	9,072
November	97,400	8,800
December	85,502	8,528
January	48,748	8,528
February	33,879	36,338
March	31,800	36,108
April	27,902	35,925
May	23,148	35,610
June	23,012	35,565

(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 2018-19	Spillway flows 2018-19	Release 2019-20	Spillway flows 2019-20
July	3,164	0	0	0
August	909	0	0	0
September	8,369	0	8,293 ³	0
October	2,567	0	6,797 ³	0
November	11,645	0	0	0
December	12,001	0	0	0
January	41,249	0	0	0
February	16,353	0	0	0
March	2,142	0	0	0
April	3,481	0	0	0
May	5,273	0	0	0
June	0	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 September and October 2019 were strategic releases for town water supplies

Table 4 - Glenlyon Dam recreation statistics

Recreation Visitors 1 July 18 – 30 June 19	Camp sites occupied 1 July 18 – 30 June 19	Recreation Visitors 1 July 19 – 30 June 20	Camp sites occupied 1 July 19 – 30 June 20
55,664	6,739	26,644	3,605

Resource allocation, sharing and use

Table 5 – Supplemented / regulated¹ and Unsupplemented / supplementary² water entitlements and off-stream storages

Name	NSW Regulated ³ (megalitres)	QLD Supplemented ³ (megalitres)	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	3,132	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	35,503	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	25,388	29,215	42,739	65,600	125,264
Mungindi Town	320	N/A		N/A		
Totals	255,066	84,414	118,770	99,833	181,175	282,624

- (1) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.
- (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.
- (3) 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

Table 6 - Water use from the Border Rivers 1 July 18 – 30 June 19 (megalitres)

Name	NSW Regulated ¹	QLD Supplemented ¹	TOTAL Regulated / Supplemented	NSW Supplementary ²	QLD Unsupplemented ²	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) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.
- (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.
- (3) 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
- (4) 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

Table 7 - Water use from the Border Rivers 1 July 19 – 30 June 20 (megalitres)

Name	NSW Regulated ¹	QLD Supplemented ¹	TOTAL Regulated / Supplemented	NSW Supplementary ²	QLD Unsupplemented ²	TOTAL Supplementary / Unsupplemented
Pike Creek and Dumaresq River from Glenlyon Dam to Bonshaw Weir	21	0	21	292	455	747
Dumaresq River from Bonshaw Weir to Cunningham Weir (excluding Texas town)	10	22	32	265	348	613
Texas Town		49	49			0
Dumaresq River from Cunningham Weir to Macintyre River junction (excluding Yelarbon town)	3	0	3	30	4,963	4,993
Yelarbon Town		32	32			0
Macintyre River from Dumaresq River junction to Goondiwindi Weir (excluding Goondiwindi & Boggabilla towns)	240	5	245	625	6,352	6,977
Boggabilla Town	82		82			0
Goondiwindi Town		1,370	1,370			0
Macintyre River from Goondiwindi Weir to Boomi Weir	106	0	106	3,039	5,323	8,362
Macintyre River and Barwon River from Boomi Weir to Mungindi Weir (excluding Mungindi town)	89	0	89	5,463	12,910	18,373
Mungindi Town	81		81			0
Totals	632	1,478	2,110	9,714	30,351	40,065

- (1) Supplemented water in QLD is defined as water delivered from infrastructure. This is equivalent to the NSW term Regulated water.
- (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.
- (3) 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
- (4) 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

Table 8 – 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 9 – Summary of resource assessments (Border Rivers) 1 July 19 – 30 June 20 (gigalitres)

Bulk Accounts	QLD Account balance 1/07/2019 (a)	QLD Total use/loss for year (b)	QLD Total distribution for year (c)	QLD Account balance 1/07/2020 (a-b+c)	NSW Account balance 1/07/2019 (a)	NSW Total use/loss for year (b)	NSW Total distribution for year (c)	NSW Account balance 1/07/2020 (a-b+c)
Storage Loss (Glenlyon Dam)	0	1.2	2.78	1.57	1.41	3.78	5.35	2.98
Storage Loss (Pindari Dam)	n/a	n/a	n/a	n/a	1.84	3.26	7.33	5.91
Essential Supplies (minimum release)	0	0	0	0	0.00	0	6.08	6.08
Essential Supplies (other)	4.55	1.54	4.45	7.46	15.81	0.57	9.47	24.71
Essential Supplies Delivery Loss	0.32	0.75	2.76	2.33	5.26	0.28	5.33	10.31
General Use	3.26	0.02	-2.98	0.26	4.65	0.09	4.22	8.78
General Use Delivery Loss	0.00	0.01	0.09	0.08	0.00	0.02	2.69	2.67

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

Month	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	1 July 19 - 30 June 20 Access by small irrigation enterprises upstream of Goondiwindi Weir	1 July 19 - 30 June 20 General access to unregulated flows ¹
July	0	0	0	0
August	0	0	0	0
September	0	0	0	0
October	0	0	0	0
November	0	0	0	0
December	0	0	0	0
January	0	0	0	0
February	0	0	15	2.8 days
March	0	0	15	0
April	0	0	24	0
May	0	0	16	0
June	0	0	17	0

- (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 – Sharing of Unregulated Flow¹ in the Border Rivers 1 July 19 – 30 June 20 (megalitres)

Flow Event Number	Start Date	End Date	Flow Event Volume	Regulated Water Requirement + Loss Allowance	25% Environmental Share Volume	Volume available for Sharing between States
1	14/2/2020	24/2/2020	103,590	21,547	20,511	61,532

(1) Reporting is in accordance with the NSW-Qld Border Rivers Intergovernmental Agreement 2008 Clause 33 Access Arrangements.

Table 12 – Preservation of Tributary inflow¹ for the Border Rivers 1 July 19 – 30 June 20 (megalitres)

Month	Number of days that tributary inflow would result in up to 100 ML/day at Mungindi	Number of days that tributary inflow resulted in up to 100 ML/day at Mungindi
1 July – 30 September	0	0
1 October – 31 December	0	0
1 January – 31 March	58	58
1 April – 30 June	91	91
Totals	149	149

(1) Reporting is in accordance with the NSW-Qld Border Rivers Intergovernmental Agreement 2008 Clause 32 Access Arrangements

Table 13 – Irrigated production in the Border Rivers (hectares)

Crop	2018-19 NSW	2018-19 QLD	2018-19 TOTAL	2019-20 NSW	2019-20 QLD	2019-20 TOTAL
Cotton	15,930	3,500	19,430	Nil	0	0
Lucerne	450	400	850	220	320	540
Cereals	850	1,250	2,100	Nil	3,200	3,200
Peanuts	Nil	0	0	Nil	0	0
Fodder crops	330	200	530	150	260	410
Horticultural crops	360	0	360	360	40	400
Other	130	100	230	Nil	60	60
Total	18,050	5,450	23,500	730	3,880	4,610

- (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 14 - Groundwater allocation/entitlements in the Border Rivers Groundwater Area

Type	NSW ⁽¹⁾ (megalitres)	QLD (megalitres)
Issued allocation/entitlement	15,402	14,421 ⁽²⁾
Allocation/entitlement issued, bores constructed	15,402	14,421
Allocation/entitlement issued, bores not constructed	0	0
Number of entitlements	28	29
Number of bores constructed	48	45 ⁽³⁾
Number of applications outstanding	1	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-five 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	48
Total number of Aquifer Access Licences extraction points not completed	6

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

Table 15 - Groundwater use in the Border Rivers Groundwater Area (megalitres)

1 July 18 – 30 June 19 NSW	1 July 18 – 30 June 19 QLD	1 July 19 – 30 June 20 NSW	1 July 19 – 30 June 20 QLD
8,738	8,705	7,836	7,785

Resource Management

Table 16 - Beardmore Dam environmental, stock, and domestic water inflow, storage, and outflow / releases ¹

Month	2018-19 Inflow (ML)	2018-19 Outflow / Release (ML)	2018-19 Storage at end of month (ML)	2019-20 Inflow (ML)	2019-20 Outflow / Release (ML)	2019-20 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	2,845 ⁽²⁾	0	0	0	0	0
November	65 ⁽²⁾	0	0	0	0	0
December	10,010 ⁽²⁾	4,880	785	0	0	0
January	470	1,230	25	1,820	0	1,800
February	0	0	20	16,510	18,100	0
March	0	0	15	18,420	17,260	1,150
April	4,360	5,585	-1,260 ⁽³⁾	450	1,380	210
May	8,010	6,750	0	0	0	200
June	0	0	0	0	0	190
Totals	25,760	18,445	n/a	37,200	36,740	n/a

(1) 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

(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 17 - Border River and Intersecting Streams water quality guidelines and targets

The collection of the water quality samples is funded through the Commission, for and on behalf of the States of Queensland and New South Wales. Relevant government agencies are responsible for undertaking any subsequent appropriate actions.

Table 17A – Salinity: ANZECC 2000 Guideline for salt sensitive crops

Guideline value
650 us/cm

- (1) A preliminary water salinity rating can be assigned to irrigation waters based on electrical conductivity. These ratings provide only a general guide and are not intended to be used on their own to define the suitability of irrigation water. Other factors such as soil characteristics, climate, plant species and irrigation management must be considered.

Table 17B – Salinity: Murray-Darling Basin Authority (MDBA) End of Valley Target (EVT)

Valley	Site Number	Site Name	EVT Median 50%ile (us/cm)	EVT Peak 80%ile (us/cm)	EVT Salt Load (t/year)
NSW Border Rivers	416001	Macintyre R. at Mungindi	250	330	50,000
Condamine Balonne	422015	Culgoa River at Brenda	170	210	29,000
Condamine Balonne	422030	Narran R. at New Angledool	160	210	10,000
Warrego	423004	Warrego River at Barrington No.2	101	110	4,800

Table 17C – Applicable Basin Target Water Quality Zones for Border Rivers and Intersecting Streams Water Quality Projects

Basin Plan Water Quality Zone ¹	Turbidity (NTU)	Total Phosphorus (µg/L)	Total Nitrogen (µg/L)	Dissolved Oxygen (%sat)	pH
A1 – Condamine, Paroo, Warrego (Lowland)	700	300	1,000	60-110	6.5-8.0
A2 – Border Rivers, Gwydir, Namoi (Lowland)	200	200	1,000	65-110	7.0-8.30
B2 – Border Rivers, Gwydir, Namoi (Upland)	30	80	750	60-110	7.5-8.5
C2 - Border Rivers, Gwydir, Namoi (Montane)	25	20	250	90-110	6.5-7.5

- (1) Murray-Darling Basin Authority n.d., 'Maps and spatial data – Water Quality zones', Australian Government, viewed 3 August 2020, <<https://data.gov.au/data/dataset/34c88299-d0f4-4f83-9f8d-270c77e36ee2/resource/47b49404-f9f0-4916-a7a6-7e5bc47fcdda/download/water-quality-zones.pdf>>
- (2) The Basin Plan water-dependent ecosystem targets for turbidity, total phosphorus, total nitrogen, dissolved oxygen, and pH were developed following the methods outlined in the ANZECC Guidelines 2000.
- (3) Where there are no reference sites, the appropriate trigger value from the ANZECC Guidelines (2000) for slightly to moderately disturbed systems are used as the Basin Plan water quality target.

Table 18 - 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 Mauro	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
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

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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	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
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	237	266	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	230	261	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	221	233	262	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 19 - Summary of water quality 2019-20

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	293	475	497	5	0.04	0.07	0.14	5	0.80	1.00	2.38	5	3.0	4.9	12.0
Dumaresq Tributaries	416310	Severn River at Farnbro	4	188	220	229	4	0.02	0.04	0.07	4	0.46	0.65	2.73	4	2.0	2.7	3.3
Dumaresq Tributaries	416303	Pike Creek U/S Glenlyon Dam	4	211	319	357	4	0.02	0.03	0.07	4	0.33	0.60	1.50	4	1.2	2.4	26.0
Dumaresq Tributaries	416309	Pike Creek at Glenlyon Dam Tailwater	8	294	425	557	8	0.02	0.04	0.06	8	0.40	0.75	3.90	8	0.9	2.5	4.7
Dumaresq Tributaries	416032	Mole River at Donaldson	5	59	191	240	5	0.03	0.04	0.36	5	0.48	0.60	4.62	5	8.1	9.1	256.9
Dumaresq Tributaries	416008	Beardy River at Haystack	5	106	139	178	5	0.01	0.03	0.24	5	0.64	0.80	3.68	5	5.7	8.7	225.2
Dumaresq Tributaries	416312	Oaky Creek at Texas	2	335	443	551	2	0.04	0.07	0.09	2	2.43	4.55	6.67	2	28.9	114.7	200.5
Dumaresq Tributaries	416415	Macintyre Brook at Booba Sands	12	417	621	1143	12	0.02	0.07	0.15	12	0.80	1.10	2.70	12	7.8	23.6	89.4

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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	213	281	314	12	0.01	0.04	0.10	12	0.51	0.75	1.95	12	4.2	10.1	32.1
Dumaresq River	416049	Macintyre River at Glenarbon Weir	12	207	292	370	12	0.01	0.05	0.13	12	0.50	0.65	2.44	12	4.7	14.6	31.2
Macintyre River	416012	Macintyre River at Holdfast	12	336	407	458	12	0.02	0.06	0.14	12	0.41	0.65	1.37	12	9.8	14.8	93.8
Macintyre River	41610044	Salisbury Bridge (Boggabilla)	12	303	341	420	12	0.03	0.06	0.12	12	0.60	0.85	1.18	12	3.8	8.8	50.0
Macintyre River	416048	Macintyre River at Kanowna	4	254	307	335	4	0.05	0.09	0.22	4	0.60	0.65	1.96	4	64.8	89.6	231.2
Barwon River	416001	Barwon River at Mungindi	12	236	300	403	12	0.04	0.10	0.24	12	0.70	0.85	1.66	12	46.0	95.5	282.2
Weir River	416202	Weir River at Talwood	11	127	158	234	11	0.07	0.33	0.68	11	1.40	2.20	3.90	11	116.0	321.0	620.0
Intersecting Streams	424002	Paroo at Willara crossing	11	61	90	147	11	0.26	0.39	0.75	11	0.90	1.40	1.80	10	256.8	337.5	551.5
Intersecting Streams	423002	Warrego River at Fords Bridge	6	115	136	162	6	0.22	0.35	0.59	6	0.70	1.15	1.55	5	181.2	319.0	665.6

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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	422015	Culgoa River at Brenda	11	183	230	474	11	0.27	0.39	0.59	11	0.90	1.50	2.00	10	178.8	305.5	594.1
Intersecting Streams	422014	Bokhara River at Goodooga	4	174	184	195	4	0.33	0.35	0.59	4	1.16	1.30	1.79	3	287.8	347.0	437.4
Intersecting Streams	422013	Birrie River near Goodooga	2	175	182	189	2	0.38	0.52	0.66	2	1.39	1.75	2.11	1	556.0	556.0	556.0
Intersecting Streams	422012	Narran River at New Angledool	6	165	317	574	6	0.06	0.22	0.42	6	1.15	1.35	1.55	6	30.6	294.3	620.5
Glenlyon Dam	416315	Glenlyon 1: Top	12	270	296	358	12	0.02	0.04	0.06	12	1.11	1.55	2.60	11	2.79	5.94	9.10
Glenlyon Dam	416315	Glenlyon 1: Middle	12	270	296	357	12	0.01	0.04	0.06	12	1.01	1.45	2.58	11	2.41	4.46	9.00
Glenlyon Dam	416315	Glenlyon 1: Bottom	12	270	295	380	12	0.01	0.03	0.05	12	1.10	1.45	2.56	11	3.24	6.23	9.00

(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 20 - Stream gauging stations (Border Rivers)

AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 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	7.3	81	7	(2018-19)	3,131	(1950-51)	406
416002	Macintyre River	Boggabilla	AR	Yes	1895	Water NSW	161	171	29	(1919-20)	4,510	(1950-51)	562
416003	Tenterfield Creek	Clifton	AR	Yes	1921	Water NSW	0.4	15	0.4	(2018-19)	235	(1949-50)	35
416006	Severn River	Ashford	AR	Yes	1934	Water NSW	172	16.6	16.6	(2019-20)	1,389	(1950-51)	181
416007	Dumaresq River	Bonshaw Weir	AR	Yes	1934	Water NSW	91.2	123	54	(1993-94)	1,739	(2010-11)	205
416008	Beardy River	Haystack	AR	Yes	1934	Water NSW	0.2	16.8	0.2	(2018-19)	219	(2016-17)	29
416010	Macintyre River	Wallangra	AR	Yes	1937	Water NSW	3.4	15.4	3.4	(2018-19)	667	(1970-71)	73
416011	Dumaresq River	Roseneath	AR	Yes	1937	Water NSW	103	103	36	(1993-94)	1,603	(1955-56)	257
416012	Macintyre River	Holdfast	AR	Yes	1951	Water NSW	166	31	31	(2019-20)	1,682	(1955-56)	253
416020	Ottleys Creek	Coolatai	AR	Yes	1967	Water NSW	0.7	4.8	0.7	(2018-19)	65	(2000-01)	8

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 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	0	41	0	(2018-19)	465	(1975-76)	70
416037	Boomi River	Offtake	AR	Yes	1973	Water NSW	7.4	13.9	3	(1994-95)	149	(2011-12)	24
416040	Dumaresq River	Glenarbon Weir	AR	Yes	1996	Water NSW	68.2	129	63	(2017-18)	1,793	(2010-11)	166
416043	Macintyre River	Boomi Weir	AR	Yes	1976	Water NSW	46.5	65	21	(1994-95)	551	(2010-11)	152
416047	Macintyre River	Terrewah	AR	Yes	1985	Water NSW	90	131	31	(1994-95)	1,488	(2010-11)	224
416048	Macintyre River	Kanowna	AR	Yes	1988	Water NSW	29.2	72	25	(1994-95)	727	(1998-99)	133
416201A	Macintyre River	Goondiwindi	AR	Yes	1950	DNRME	158	160	61	(1994-95)	4,616	(1950-51)	661
416201B	Macintyre River	Goondiwindi Weir	AR	Yes	1997	DNRME	151	143	158	(2006-07)	2,421	(2010-11)	271
416202A	Weir River	Talwood	AR	Yes	1949	DNRME	10.7	66	0	(2006-07)	687	(1995-96)	60
416305B	Brush Creek	Beebo	AR	Yes	1950	DNRME	1	1	0	(Several)	55	(1995-96)	1.9
416309B	Pike Creek	Glenlyon Dam Tailwater	AR	Yes	1973	DNRME	100	15	4	(1976-77)	180	(1988-89)	49
416310A	Dumaresq River	Farnbro	AR	Yes	1962	DNRME	0	17	0	(2018-19)	433	(2010-11)	48

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 Total Flow (MLx103)	Historical Min (MLx103)	Historical Min (Date)	Historical Max (MLx103)	Historical Max (Date)	Historical Median (MLx103)
416312A	Oakey Creek	Texas	AR	Yes	1969	DNRME	0	5	0	(2018-19)	99	(1995-96)	4.6
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	18	21	6	(1994-95)	542	(1995-96)	35
416415A	Macintyre Brook	Booba Sands	AR	Yes	1987	DNRME	9.4	22	4	(1994-95)	630	(1995-96)	30

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

Table 21 - Stream gauging stations (Intersecting Streams)

AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 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	0	76	0	(2018-19)	674	(2011-12)	61
417204A	Moonie River	Fenton	AR	Yes	1971	DNRME	0	75	0	(2018-19)	670	(1975-76)	65
422005	Bokhara River	Goodwin's	AR	Yes	1944	Water NSW	0.3	32	0	(Several)	652	(1955-56)	25
422006	Culgoa River	Downstream Collerina (Kenebree)	AR	Yes	1944	Water NSW	6	177	6	(2018-19)	2341	(1989-90)	276
422010	Birrie River	Talawanta	AR	Yes	1964	Water NSW	0.04	37	0	(Several)	379	(1975-76)	24
422011	Culgoa River	Upstream Collerina (Mundiwa)	AR	Yes	1964	Water NSW	11	143	6	(2001-02)	1898	(2010-11)	153
422030	Narran River	Angledool #2	AR	Yes	1959	Water NSW	0	107	0	(Several)	697	(2010-11)	106
422013	Birrie River	Near Goodooga	AR	Yes	1964	Water NSW	0	62	0	(Several)	510	(2010-11)	29
422032	Bokhara River	Goodooga	AR	Yes	1915	Water NSW	0	42	0	(Several)	445	(2010-11)	14.3

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 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	3.3	175	0	(1992-93)	2530	(2010-11)	135
422016	Narran River	Wilby Wilby	AR	Yes	1964	Water NSW	0	89	0	(Several)	623	(2010-11)	72
422017	Culgoa River	Weilmoringle	AR	Yes	1964	Water NSW	0	132	0	(1992-93)	1900	(2010-11)	117
422204A	Culgoa River	Whyenbah	AR	Yes	1965	DNRME	10.4	415	2.7	(1992-93)	2247	(2010-11)	320
422206A	Narran River	Dirranbandi- Hebel Road	AR	Yes	1965	DNRME	1.3	171	0.2	(1992-93)	1993	(2010-11)	102
422207A	Ballandool River	Hebel-Bollon Road	AR	Yes	1965	DNRME	0.2	46	0	(1992-93)	390	(2010-11)	15
422209A	Bokhara River	Hebel	AR	Yes	1967	DNRME	1.1	45	0.5	(1992-93)	374	(2010-11)	20
422211A	Briarie Creek	Woolerbilla- Hebel Road	AR	Yes	1992	DNRME	0	97	0	(Several)	953	(2010-11)	7
423001	Warrego River	Fords Bridge	AR	Yes	1921	Water NSW	6.9	49	0.1	(2012-13)	344	(1989-90)	7
423002	Warrego River	Fords Bridge (Bywash)	AR	Yes	1921	Water NSW	24	48	0	(1957-58)	249	(1955-56)	35
423202C	Warrego River	Cunnamulla Weir	AR	Yes	1992	DNRME	320	1092	0	(2013-14)	1832	(2009-10)	138

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AWRC No	Stream	Station	Equipment (see note)	Telemetry	Established date	Owned by	2018-19 Total Flow (MLx103)	2019-20 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	108	422	7.79	(2012-13)	1418	(1975-76)	165
424201A	Paroo River	Caiwarro	AR	Yes	1967	DNRME	214	662	13	(2012-13)	2041	(2009-10)	291
11202	Bulloo River	Autumnvale	AR	Yes	1967	DNRME	449	506	19	(1976-77)	3241	(1973-74)	393

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

Table 22 - Groundwater monitoring network

Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)	Depth to WL 2019-20 Max (m)	Depth to WL 2019-20 Min (m)
41640001	Keetah Crossing	QLD	A	87.3	No	1985	5.47	4.17	6.50	5.50
41640001	Keetah Crossing	QLD	B	46.8	No	1985	6.66	6.19	7.30	6.74
41640002	Keetah Crossing	QLD	A	17.8	No	1985	Dry (8.20)	Dry (8.20)	N.O.N	N.O.N
41640003	Yelarbon Desert	QLD	A	92.4	No	1985	4.83	4.31	5.38	4.79
41640003	Yelarbon Desert	QLD	B	47.9	No	1985	6.21	5.97	6.21	6.50
41630128	Glenarbon	QLD	A	93	No	1996	8.58	8.41	47.61	35.61
41630042	David Muggleton	QLD	A	13.3	No	1959	7.82	7.71	7.94	7.86
41630039	'Eldorado'	QLD	A	16.7	No	1959	N.O.N.	N.O.N.	16.32	N.O.N
41630072	Cunningham Weir	QLD	A	90.4	Yes	1985	51.83	38.49	48.71	40.69
41630072	Cunningham Weir	QLD	B	41.4	Yes	1985	36.99	35.58	41.60	37.78
41630072	Cunningham Weir	QLD	C	10.4	Yes	1985	7.01	6.7	7.12	6.85
41630064	Texas	QLD	A	52.5	No	1985	34.57	25.08	33.70	30.20
41630064	Texas	QLD	B	28.5	No	1985	23.01	20.17	23.41	22.75
41630066	Bill & Tater	QLD	A	90.4	Yes	1985	45.54	28.81	48.44	34.60
41630066	Bill & Tater	QLD	B	45.9	Yes	1985	42.43	32.26	42.04	38.64

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)	Depth to WL 2019-20 Max (m)	Depth to WL 2019-20 Min (m)
41630067	Bill & Tater	QLD	A	12.2	Yes	1985	6.3	5.78	6.52	5.66
41630063	Finlay's	QLD	A	100.6	No	1983	21.52	8.85	22.88	11.50
41630063	Finlay's	QLD	B	64.6	No	1983	21.15	8.7	22.90	11.19
41630062	Finlay's	QLD	A	17.4	No	1985	17.89	5.61	8.05	7.41
41630071	Finlay's	QLD	A	48.2	No	1985	N.O.N.	N.O.N.	17.69	7.20
41630071	Finlay's	QLD	B	41.2	No	1985	N.O.N.	N.O.N.	N.O.N.	7.20
41630059	John Moore	QLD	A	101.7	No	1985	7.18	6.75	7.78	7.21
41630069	John Moore	QLD	A	92	No	1985	22.45	11.88	22.71	16.32
41630069	John Moore	QLD	B	35.9	No	1985	19.04	9.06	21.29	13.04
41630069	John Moore	QLD	C	15.4	No	1985	8.95	6.95	9.62	8.42
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	8.35	7.79	9.17	4.39
41630004	V and E Sattolo	QLD	A	11.8	No	1960	11.95	11.7	11.99	11.94
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	15.1	11.9	17.42	15.68
GW036697 41640041A	Keetah Bridge	NSW	1	20	Yes	1987	8.95	8.93	8.97	8.95
GW036697 41640042A	Keetah Bridge	NSW	2	64	Yes	1987	6.98	6.9	6.99	6.70

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)	Depth to WL 2019-20 Max (m)	Depth to WL 2019-20 Min (m)
GW036697 41640043A	Keetah Bridge	NSW	3	83.5	Yes	1987	5.91	5.01	7.00	5.74
GW093060 41630109A	Smithfield Section	NSW	1	13.4	No	2009	8.58	8.24	8.86	7.75
GW093061 41630110A	Smithfield Section	NSW	1	15.1	No	2009	10.17	9.78	10.37	9.33
GW093061 41630111A	Smithfield Section	NSW	2	25.3	No	2009	20.23	20.01	20.40	20.06
GW040635 41630037A	Smithfield Section	NSW	1	15.9	No	1960	9.21	8.81	9.40	8.37
GW040636 41630036A	Smithfield Section	NSW	1	11.3	No	1960	8.99	7.93	8.34	8.06
GW040637 41630035A	Smithfield Section	NSW	1	7.9	No	1960	7.02	6.65	7.32	7.16
GW040638 41630034A	Smithfield Section	NSW	1	11.9	No	1960	11.29	10.21	11.68	11.54
GW093062 41630113A	Smithfield Section	NSW	1	15.6	No	2009	9.61	9.21	9.79	8.76
GW40771 41630114C	Smithfield Section	NSW	1	30	Yes	1994	29.23	28.85	29.87	28.89
GW40771 41630114B	Smithfield Section	NSW	2	37	Yes	1994	34.82	33.78	34.64	34.56
GW40771 41630114A	Smithfield Section	NSW	3	50	Yes	1994	37.65	35.87	37.87	37.29

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)	Depth to WL 2019-20 Max (m)	Depth to WL 2019-20 Min (m)
GW040641 41630012A	Riverstone Section	NSW	1	35	No	1960	10.53	8.74	29.67	20.86
GW040642 41630011A	Riverstone Section	NSW	1	9.7	No	1960	6.93	6.71	7.36	7.07
GW040644 41630009A	Riverstone Section	NSW	1	9.5	No	1960	8.58	8.41	8.95	8.71
GW040646 41630007A	Riverstone Section	NSW	1	7.7	No	1960	7.46	6.82	7.88	7.59
GW040647 41630030A	Hopwood Section	NSW	1	12.8	No	1959	(Dry) 9.06	(Dry) 9.00	(Dry) 9.01	8.78
GW040648 41630029A	Hopwood Section	NSW	1	11.2	No	1959	9.17	8.98	9.74	8.81
GW040649 41630028A	Hopwood Section	NSW	1	28.9	No	1959	8.43	8.08	8.63	8.49
GW040650 41630027A	Hopwood Section	NSW	1	12.6	No	1959	9.19	8.6	9.21	9.09
GW040652 41630025A	Hopwood Section	NSW	1	12.2	No	1959	8.91	8.61	9.24	9.06
GW040653 41630024A	Hopwood Section	NSW	1	10.9	No	1959	8.78	8.45	9.37	8.91
GW93063 41630101A	Lochiel Section	NSW	1	12	No	2009	7.72	7.39	8.24	7.72
GW93063 41630102A	Lochiel Section	NSW	2	21.7	No	2009	7.75	7.57	9.78	9.03

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Bore number	Location	State	Piezometer	Depth (m)	Automatic WL Recorder (Yes/No)	Year Installed	Depth to WL 2018-19 Max (m)	Depth to WL 2018-19 Min (m)	Depth to WL 2019-20 Max (m)	Depth to WL 2019-20 Min (m)
GW93064 41630103B	Lochiel Section	NSW	1	13.3	No	2009	9.29	8.9	N.O.N	N.O.N
GW93064 41630103A	Lochiel Section	NSW	2	22.3	No	2009	9.24	6.18	9.75	9.13
GW93065 41630104A	Lochiel Section	NSW	1	12.6	No	2009	8.11	7.88	8.84	8.28
GW93065 41630105A	Lochiel Section	NSW	2	27	No	2009	8.07	7.87	8.57	8.16
GW40829 41630106B	Lochiel Section	NSW	1	12	No	1996	9.72	9.46	10.02	8.82
GW40829 41630106A	Lochiel Section	NSW	2	42	No	1996	9.97	9.68	10.23	10.01
GW40830 41630107A	Lochiel Section	NSW	1	27	No	1996	(Dry) 10.34	(Dry) 10.32	(Dry) 10.33	(Dry) 10.33
GW40831 41630108B	Lochiel Section	NSW	1	44	Yes	1996	37.27	36.43	37.02	36.77
GW40831 41630108A	Lochiel Section	NSW	2	96	Yes	1996	43.2	41.72	42.55	40.80

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

(2) NSW bore numbers have been assigned Qld identifiers for entry into GWDB.