

## **Key Messages**

- The Government of South Australia is committed to open and transparent water management and accounting along the length of the River Murray.
- This report provides a full year summary of river flows at key locations along the River Murray in South Australia, water used for critical human water needs (CHWN) and consumptive purposes and water for the environment.
- The table below shows the total annual river flow and water use data for 2019-20, following the end of reconciliation and reporting under section 71 of the *Water Act 2007* (Cth). The remaining data is the preliminary information that was reported to the Basin Officials Committee at the end of Quarter 4 of 2019-20.
- A total of 2388.7 GL flowed into South Australia during the 2019-20 water year. This was all regulated flow (including SA Entitlement, consumptive and environmental water trade) as no unregulated flow events reached the SA border. Conveyance and water left in-river (planned environmental water) totalled 819.7 GL.
- South Australia deferred 17 GL of identified, unused consumptive allocations in April 2020. Due to an unregulated flow event en route to South Australia in June 2020, there was a forced delivery of 1.8 GL of deferred water from Lake Victoria.
- Water use totalled 405.4 GL for general consumptive purposes (primarily irrigation) and 176.1 GL to support CHWN and town water supplies.
- Environmental watering activities utilised 987.5 GL of held environmental water and over 676.8 GL flowed over the barrages, maintaining connectivity between the Lower Lakes and the Coorong.

Table 1 – River Murray Flow and Use in South Australia 2019-20 (GL)

	2019-20	Q1	Q2	Q3	Q4	Total - Year to Date	Final Reconciliation
Water Flows	Flow at the SA border	564.5	834.1	640.4	349.7	2388.7	2388.7
	Regulated	564.5	834.1	640.4	349.7	2388.7	2388.7
	Unregulated	0.0	0.0	0.0	0.0	0.0	0.0
	Flow at Lock 1	456.5	578.2	381.2	264.5	1680.4	1680.4
	Barrage release	274.5	283.1	19.5	99.7	676.8	676.8
Regulated Water Use / Purpose	CHWN and town water supply	43.7	55.4	41.0	37.2	177.3	176.1
	Consumptive	44.5	174.8	146.9	35.4	401.6	405.4
	I FNVIronmental Water	317.6	394.8	156.5	118.8	987.7	987.5
	Conveyance / remain in-river	158.8	209.2	296.0	156.5	820.5	819.7
	Other	0.0	0.0	0.0	0.0	0.0	0.0
	Total Regulated Water Use	564.5	834.1	640.4	349.7	2388.7	2388.7
Deferred	Into Storage	0.0	0.0	0.0	17.0	17.0	17.0
Water	Delivered	0.0	0.0	0.0	1.8	1.8	1.8

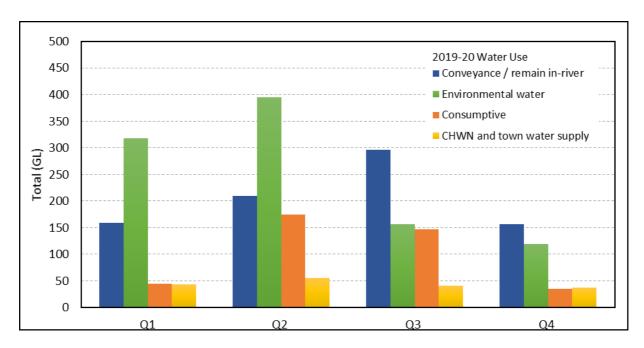


Figure 1 – Regulated River Murray Use in South Australia

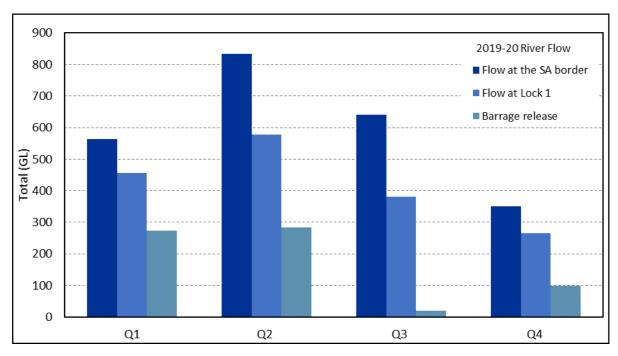


Figure 2 – River Murray Flow in South Australia

### **Technical Information**

Water Flows: Total flow volume passing a specified location

- Flow at the South Australian Border the total volume passing the SA border, as reported by the Murray-Darling Basin Authority (MDBA) and publically available at <a href="https://riverdata.mdba.gov.au/flow-south-australia-calculated">https://riverdata.mdba.gov.au/flow-south-australia-calculated</a>. This has been separated into its two components.
  - Regulated Flow the total volume of regulated (planned) flow provided to SA. This includes SA
     Entitlement, consumptive and environmental water trade and the Lindsay River Allowance.
  - Unregulated Flow the additional, uncontrolled volume, above the regulated flow to SA. This is
    calculated using monthly data provided by the MDBA. Information on unregulated flow events is
    included in SA's River Murray Flow Reports available at: <a href="https://www.waterconnect.sa.gov.au/River-Murray/SitePages/River%20Murray%20Flow%20Reports.aspx">https://www.waterconnect.sa.gov.au/River-Murray/SitePages/River%20Murray%20Flow%20Reports.aspx</a>.
- **Flow at Lock 1** the total volume passing over Lock 1, as reported by the MDBA and publically available at <a href="https://riverdata.mdba.gov.au/lock-1-downstream">https://riverdata.mdba.gov.au/lock-1-downstream</a>.
- Barrage Release the total flow over the barrages, as calculated daily by the Department for Environment and Water (DEW) and published weekly in SA's River Murray Flow Report.

#### Water Use / Purpose

- Critical Human Water Needs (CHWN) and town water supply the total volume extracted from the River
  Murray for Metropolitan Adelaide, SA Country Towns and stock, domestic and industrial purposes. This includes
  both metered and estimated use from the quarterly account reconciliation process.
- **Consumptive use** the total volume used for general consumptive purposes primarily irrigation use. This includes both metered and estimated use from the quarterly account reconciliation process.
- Environmental Water the total volume of held environmental water that is delivered for environmental outcomes either upstream of Lake Alexandrina or in the Lower Lakes and Coorong. This is calculated and provided monthly by the MDBA to DEW from a combination of metered, estimated and modelled data held by DEW, MDBA and the Commonwealth Environmental Water Holder. It includes all SA-held entitlements and environmental allocations traded into SA, either for a direct delivery or from a return flow event. Information on environmental watering activities is included in SA's River Murray Flow Report. This data reflects the best data available at the date of issue and replaces any data provided for previous quarters in the water year.
- Conveyance / remain in-river water delivered for conveyance purposes and any unallocated Entitlement that remains in-river as planned environmental water. It also includes water delivered/allocated for consumptive purposes that was not taken.

#### **Deferred Water**

- Into Storage water that has been deferred in accordance with clause 91 and Schedule G of the *Murray-Darling Basin Agreement*. Information on SA's deferral and water storage plans are available at <a href="https://www.environment.sa.gov.au/topics/river-murray/south-australias-storage-right">https://www.environment.sa.gov.au/topics/river-murray/south-australias-storage-right</a>. This is not part of the regulated flow and use volumes in the table as it is held back in an upstream storage and not delivered to SA.
- Delivered deferred water delivered to SA (either ordered, forced delivery or spill) is part of the regulated flow and use volumes in the table.

#### Other Key Information

- Water Use a preliminary assessment based on actual and estimated data and is subject to a final assessment and reconciliation at the end of water year. This data reflects the best data available at the date of issue and replaces any data provided for previous quarters in the water year.
- **Year to Date** the cumulative flow volume and water use for the quarters reported to date. Historical annual reports on water use in South Australia can be accessed on the Murray-Darling Basin Authority's <u>website</u>
- **Final volume** the total annual volume following the end of reconciliation and reporting under section 71 of the *Water Act 2007* (Cth). Historical annual reports on water use in South Australia can be accessed on the Murray-Darling Basin Authority's <u>website</u>.
- Data all values included in this report have been rounded to one decimal place. This may result in minor variations from other reported values.





# **Further Information**

For more information on South Australia's water allocations or to sign up to receive the weekly River Murray Flow Report:

- o Visit the <u>DEW website</u>
- o Email <u>DEW:RiverMurrayOps@sa.gov.au</u>
- o Subscribe to the River Murray Flow report <u>here</u>.

To speak with someone about your water allocation or account:

- o Call the water licensing office on (08) 8595 2053
- o Email water licensing on <u>DEW.WaterLicensingBerri@sa.gov.au</u>

To download daily flow data along the River Murray:

o Visit the MDBA Website

