

Lachlan Valley Darft Water Balance 2008/09

| Water Balance Component | Sources of water | | Distribution of water | | % of volume measured |
|--|------------------|-------------|-----------------------|-------------|----------------------|
| | Volume (ML) | % of total | Volume (ML) | % of total | |
| Storage Volume | | | | | |
| Volume in storage at start of year | 138,540 | | | | 100% |
| Volume in storage at end of year | 81,680 | | | | 100% |
| Change in storage | 56,860 | 30% | | | 100% |
| Storage net evaporation (1) | | | 27,618 | 14% | 100% |
| Inflows | | | | | |
| Storage inflows | 119,909 | 63% | | | 100% |
| Downstream tributaries (2) | 14,001 | 7% | | | 100% |
| Subtotal | 133,910 | 70% | | | 100% |
| Net water diverted under water rights (3) | | | | | |
| Domestic and stock rights | | | 4,211 | 2% | 0% |
| Native title rights | | | 0 | 0% | 0% |
| Subtotal | | | 4,211 | 2% | 0% |
| Net water diverted under access licences | | | | | |
| Domestic and stock | | | 4,005 | 2% | 100% |
| High security | | | 5,826 | 3% | 100% |
| General security | | | 4,348 | 2% | 100% |
| Local water utility | | | 7,760 | 4% | 100% |
| Major water utility | | | 0 | 0% | |
| Supplementary water | | | 0 | 0% | |
| Conveyance | | | 46 | 0% | 100% |
| Subtotal | | | 21,984 | 12% | 100% |
| Environmental water | | | | | |
| Net diversion to wetlands | | | 0 | 0% | 100% |
| End of system flows (4) | | | 15,117 | 8% | 100% |
| Subtotal | | | 15,117 | 8% | 100% |
| Other Outflows (5) | | | 6,212 | 3% | 100% |
| Unaccounted difference (6) | | | 115,627 | 61% | |
| TOTAL | 190,770 | 100% | 190,770 | 100% | |

Notes:

(1) The evaporation figure includes net evaporation loss from Wyangala Dam and Lake Cargelligo. (Lake Brewster remained empty).

(2) Downstream tributaries include Boorowa R and Belubula R. Ungauged tributaries were estimated from the increase in mass balance between Wyangala Dam and Forbes.

(3) Water rights are not metered. Values presented are as specified in Water Sharing Plan.

(4) End of system flows at Booligal, above water orders and flow at the homestead on Willandra Ck.

(5) Other outflows - Replenishment flow into Booberoi Creek (3311ML), and Merrimajeel/Muggabah Creeks (5446ML). There was no flow to Willandra Creek below Homestead and Merrowie Ck.

(6) Unaccounted difference is estimated as the difference between inflows, outflows and change in storage. This includes river evaporation, seepage, overbank flows and any measurement errors recording other components. This also includes the delivery losses in the regulated section of Willandra Ck.

(7) All the above figures are based on operational data used by State Water and are not quality coded. Archived data may differ from the operational data due to changes in the rating tables.

(8) The above water balance for Lachlan Valley includes Wyangala, Lake Cargelligo and Lake Brewster storages within the area covered by the Water Sharing Plan for the Lachlan Regulated River water source.