

Hunter Valley Water Balance - 2009/10



| Water balance component | Sources of water | | Distribution of water | | % of volume measured |
|---|------------------|-------------|-----------------------|-------------|----------------------|
| | Volume (ML) | % of total | Volume (ML) | % of total | |
| Storage volume | | | | | |
| Combined volume in storage at start of year | 770,689 | | | | |
| Volume in storage at end of year | 700,093 | | | | |
| Change in storage (SWC share) | 70,596 | 28% | | | 100% |
| Barnard Reserve (4) | 8,755 | | 8,755 | | 100% |
| Storage net evaporation | | | 24,564 | 10% | 100% |
| Inflows | | | | | |
| Storage Inflows (1) | 76,262 | 30% | | | 100% |
| Downstream tributaries (2) | 106,957 | 42% | | | 50% |
| Subtotal | 183,219 | 72% | | | |
| Net Water diverted under basic rights | | | | | |
| Domestic and stock rights (3) | | | 5,400 | 2% | 0% |
| Native title rights | | | | | |
| Subtotal | | | 5,400 | 2% | |
| Net Water diverted under access licences | | | | | |
| Domestic and stock | | | 631 | 0% | 100% |
| High security | | | 8,260 | 3% | 100% |
| General security | | | 52,868 | 21% | 100% |
| Local water utility | | | 6,364 | 3% | 100% |
| Major utility | | | 37,787 | 15% | 100% |
| Supplementary water | | | 7,227 | 3% | 100% |
| Conveyance | | | - | 0% | |
| Subtotal | | | 113,137 | 45% | |
| Environmental water | | | | | 100% |
| Environmental flows (Plan) | | | 24,476 | 10% | 90% |
| End of water source flows (5) | | | 51,839 | 20% | |
| Subtotal | | | 76,315 | 30% | |
| Other outflows | | | | | |
| Unaccounted difference (6) | | | 34,399 | 14% | |
| TOTAL | 253,815 | 100% | 253,815 | 100% | |

Notes

- (1) Calculated from Glenbawn Dam and Glennies Ck Dam volume change, plus evaporation and releases.
- (2) Downstream tributaries where gauged, plus the 'negative' unaccounted mass balance difference between the measured distribution of water and the annual flow at Greta.
- (3) Basic rights are not metered. Values presented are those in the Water Sharing Plan.
- (4) Barnard Reserve accumulates from an inter-valley physical transfer and is not included. Volume is for 2008/09
- (5) Gauged at Greta (not the end) - flows greater than environmental targets are provided
- (6) All flows accounted in the mass balance - gauged tributary inputs increased to balance gauged flow @ Greta