

REPORT FOR THE WEEK ENDING

Wednesday, 22 August 2001

Our Ref : MDBC:269 :ng

23 August, 2001



Rainfall was confined to the southern half of the Murray-Darling Basin this week with heavier falls along the Great Divide diminishing to light falls in central New South Wales. Falls of between 50 and 100 mm were recorded in the upper Murray and these have produced good rises in stream flows.

Inflow to Dartmouth has increased to about 6 500 ML/day, and as a result of rain late this week is expected to peak next week at about 7 500 ML/day. Storage is now 3 134 GL (82% of capacity). Release will be reduced next week from 450 ML/day to the minimum requirement of 200 ML/day in response to reduced power generation requirements.

Inflow to Hume Reservoir has risen from 7 000 to about 16 000 ML/day, and without further rain is expected to peak next week in excess of 20 000 ML/day. In response to increased tributary inflows downstream of Hume Dam, the release from Hume has been reduced from 6 500 ML/day to 3 000 ML/day to conserve resources, and further reductions will be made early next week. Storage in Hume has risen 36 GL to 1 589 GL (52% of capacity), and more significant storage gains will occur next week.

Inflow from the Kiewa River peaked at about 7 000 ML/day and, without further rain, inflow from the Ovens River is expected to reach about 15 000 ML/day early next week. In preparation for the arrival of these inflows at Lake Mulwala, release from Yarrawonga Weir has been increased from was increased from about 6 000 to 10 000 ML/day late on Wednesday 22 August. Without further rain, it is expected that increases in release to no more than 11 000 ML/day will be required next week. Total diversion from Lake Mulwala reached 5 000 ML/day early this week, however, has since reduced to about 4 000 ML/day in response to the rain.

On the Edward River, the level of Stevens Weir pool rose a further 0.5 m this week and is now about 0.6 m below operating level. Combined flow from the River Murray to Edward River and Gulpa Creek will be increased next week from the current total of 900 ML/day to about 2 000 ML/day, and will assist with the refilling of Stevens Weir pool.

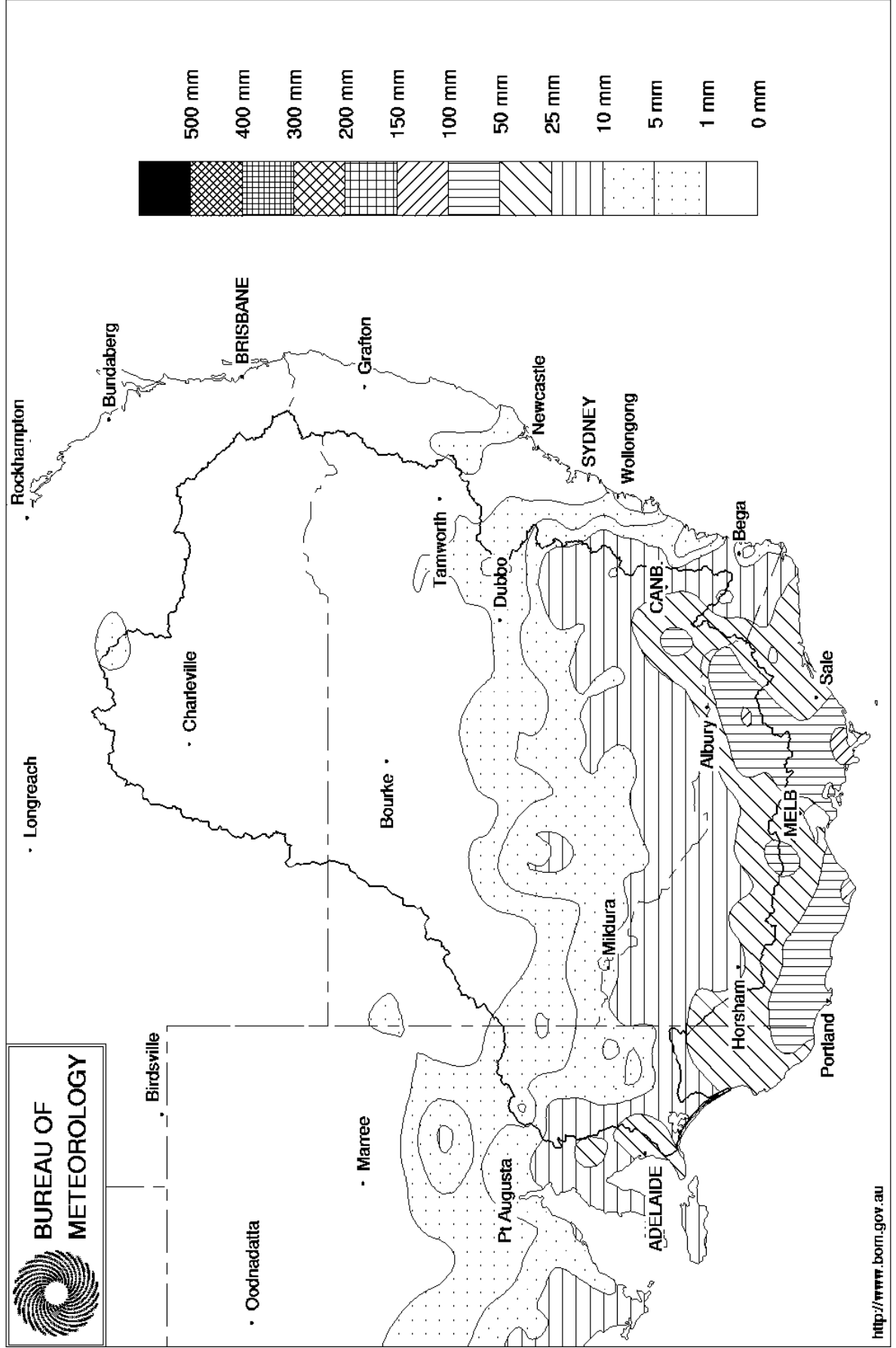
Diversion to National Channel from the Torrumbarry Weir pool has been steady at 2 900 ML/day, but is being reduced to 1 800 ML/day early next week which will lead to increased river levels downstream of Torrumbarry Weir and at Swan Hill next week. Further downstream, flow downstream of Euston Weir is currently steady near 3 300 ML/day, but will begin to rise next week as increased flows arrive from upstream. These increased flows in the River Murray will be captured in Lake Victoria.

Release from Menindee Lakes has been increased to 3 000 ML/day, but the release requirement is being kept under review according to flows in the Murray and projected storage in Lake Victoria. The recent increases in flow along the Murray are not yet sufficient to warrant reductions in release from Menindee Lakes, but have been sufficient to delay any further increases in Menindee release.

DAVID DOLE
General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 22nd August 2001

Product of the National Climate Centre



Week ending 22-Aug-2001

Water in Storage

| MDBC Storages | Full Supply Level m AHD | Full Supply Capacity GL | Storage Level m AHD | Current Storage | | Dead storage GL | Active storage GL | Change for the week GL |
|---------------------|-------------------------|-------------------------|---------------------|-----------------|------------|-----------------|-------------------|------------------------|
| | | | | GL | % | | | |
| Dartmouth Reservoir | 486.00 | 3906 | 474.84 | 3214 | 82% | 80 | 3134 | +23 |
| Hume Reservoir | 192.00 | 3038 | 183.39 | 1589 | 52% | 30 | 1559 | +36 |
| Lake Victoria | 27.00 | 680 | 23.85 | 346 | 51% | 100 | 246 | -22 |
| Menindee | | 1682 * | | 1945 | 116% | 480 # | 1465 | -16 |
| Total | | 9306 | | 7093 | 76% | 690 | 6403 | +21 |

* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = 74%

NSW Menindee Lakes Reserve

Major State Storages

| | | | | | | |
|----------------------|------|------|-----|-----|------|-----|
| Burrinjuck Reservoir | 1026 | 454 | 44% | 3 | 451 | +9 |
| Blowering Reservoir | 1631 | 1036 | 64% | 24 | 1012 | +22 |
| Eildon Reservoir | 3390 | 1199 | 35% | 100 | 1099 | +54 |

Snowy Mountains Scheme

Snowy diversions for week ending 21-Aug-2001

| Storage (GL) | Current storage | Weekly change | Diversion | This week | From 1st May |
|------------------------|-----------------|---------------|------------------|-----------|--------------|
| Lake Eucumbene - Total | 2608 | +13 | Snowy-Murray | +9 | 381 |
| Snowy-Murray Component | 1163 | - | Tooma-Tumut | +7 | 65 |
| Target Storage | 1190 | | Nett Diversion | 2.5 | 316 |
| | | | Murray 1 Release | +16 | 458 |

Major Diversions from Murray and Lower Darling (GL)

| New South Wales | This week | From 1 July |
|-------------------------|-------------|-------------|
| Murray Irrig. Ltd (Net) | 19.6 | 29.2 |
| Wakool System loss | 0.0 | 0.1 |
| Western Murray Irrig. | 0.2 | 0.7 |
| Licensed Pumps | 2.6 | 7.8 |
| Lower Darling | 0.2 | 0.9 |
| TOTAL | 22.7 | 38.7 |

| Victoria | This week | From 1 July |
|---------------------------------|-------------|-------------|
| Yarrawonga Main Channel (net) | 7.2 | 8.8 |
| Torrumbary System + Nyah (net) | 18.3 | 55.9 |
| Sunraysia Pumped Districts | 0.9 | 2.7 |
| Licensed pumps - GMW (Nyah+u/s) | 0.0 | 14.6 |
| Licensed pumps - SRW | 2.5 | 16.3 |
| TOTAL | 28.9 | 98.3 |

Flow to South Australia (GL)

| | |
|------------------------|------|
| Entitlement this month | 124 |
| Flow this week | 48.7 |
| Flow so far this month | 154 |
| Flow last month | 202 |

Salinity (EC)

(microsiemens/cm @ 25 C)

| | Current | Average over the last week | Average since 1 August |
|-----------------|---------|----------------------------|------------------------|
| Swan Hill | 310 | 275 | 294 |
| Euston | 430 | 375 | 300 |
| Red Cliffs | 320 | 310 | 318 |
| Merbein | 280 | 270 | 280 |
| Burtundy | 380 | 387 | 387 |
| Lock 9 | 370 | 357 | 336 |
| L.Victoria | 350 | 352 | 353 |
| Berri | 410 | 418 | 416 |
| Waikerie | - | - | 553 |
| Morgan | 500 | 511 | 536 |
| Mannum | 540 | 551 | 557 |
| Murray Bridge | 590 | 603 | 585 |
| Meningie | 1170 | 1100 | 1140 |
| Goolwa Barrages | 5510 | 2956 | 1639 |



River Levels and Flows

| | Minor Flood stage m | Gauge height m | Flow ML/day | Trend | Average flow this week ML/day | Average flow last week ML/day |
|----------------------------------|------------------------|-------------------|----------------|-------|----------------------------------|----------------------------------|
| River Murray | | | | | | |
| Khancoban | - | - | 3040 | F | 3040 | 3020 |
| Jingellic | 4.0 | 2.61 | 13510 | R | 8610 | 6220 |
| Tallandoon (Mitta Mitta River) | 4.2 | 2.09 | 3150 | R | 1780 | 1170 |
| Heywoods | 5.5 | 1.73 | 3070 | F | 4830 | 3820 |
| Doctors Point | 5.5 | 2.39 | 7180 | F | 7430 | 5580 |
| Albury | 4.3 | 1.34 | - | F | - | - |
| Corowa | 7.0 | 2.00 | 8550 | R | 8060 | 4480 |
| Yarrowonga Weir (d/s) | 6.4 | 1.12 | 5490 | S | 6060 | 5370 |
| Tocumwal | 6.4 | 1.67 | 5419 | F | 5560 | 4980 |
| Torrumbarry Weir (d/s) | 7.3 | 1.20 | 2785 | R | 2330 | 2030 |
| Stevens Weir (d/s) | - | 0.40 | 164 | F | 164 | 164 |
| Swan Hill | 4.5 | 0.71 | 2190 | R | 1960 | 1830 |
| Wakool Junction | 8.8 | 1.74 | 2676 | R | 2540 | 2940 |
| Euston Weir (d/s) | 8.8 | 0.86 | 3270 | F | 3460 | 4850 |
| Wentworth Weir (d/s) | 7.3 | 2.84 | 4200 | S | 4500 | 6020 |
| Rufus Junction | - | 3.50 | 6500 | R | 6670 | 6650 |
| Blanchetown (Lock 1 d/s) | - | - | 5960 | R | 5990 | 5990 |
| Tributaries | | | | | | |
| Kiewa at Bandiana | 2.7 | 2.51 | 6220 | R | 2760 | 1580 |
| Ovens at Wangaratta | 11.9 | 10.67 | 10607 | R | 4580 | 2670 |
| Goulburn at McCoy's Bridge | 9.0 | 1.27 | 553 | R | 560 | 560 |
| Edward at Liewah | - | 1.13 | 600 | F | 670 | 890 |
| Wakool at Stoney Crossing | - | 0.22 | 102 | F | 120 | 200 |
| Murrumbidgee at Balranald | 5.0 | 1.17 | 840 | F | 850 | 1280 |
| Darling at Bourke | - | 4.34 | 1990 | F | 2700 | 2280 |
| Darling at Burtundy Rocks | - | 0.92 | 790 | F | 760 | 730 |
| Barwon at Mungindi | - | 3.41 | 500 | F | 390 | 340 |

| | | |
|---|-------|------|
| Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme) | 11380 | 8000 |
|---|-------|------|

Weirs and Locks

Pool levels above or below design level

| Murray | FSL (M AHD) | u/s | d/s | | FSL (M AHD) | u/s | d/s |
|-------------------|-------------|-------|-------|----------------------|-------------|-------|-------|
| Yarrowonga | 124.90 | -0.24 | - | No. 7 Rufus River | 22.10 | +0.05 | +1.19 |
| No 26 Torrumbarry | 86.05 | +0.00 | - | No. 6 Murtho | 19.25 | +0.03 | +0.11 |
| No. 15 Euston | 47.60 | -0.03 | - | No. 5 Renmark | 16.30 | +0.01 | +0.21 |
| No. 11 Mildura | 34.40 | -0.01 | +0.01 | No. 4 Bookpurnong | 13.20 | +0.02 | +0.82 |
| No. 10 Wentworth | 30.80 | -0.03 | +0.20 | No.3 Overland Corner | 9.80 | +0.06 | +0.33 |
| No. 9 Kulnine | 27.40 | +0.00 | -0.01 | No. 2 Waikerie | 6.10 | +0.10 | +0.28 |
| No. 8 Wangumma | 24.60 | -0.01 | +0.08 | No 1. Blanchetown | 3.20 | +0.12 | +0.23 |

| Murrumbidgee | FSL (M AHD) | relation to FSL | d/s gauge ht. metres | Flow ML/day |
|---------------------|-------------|-----------------|----------------------|-------------|
| No. 7 Maude | 75.40 | -0.10 | 0.80 | 520 |
| No. 5 Redbank | 66.90 | -0.07 | 0.20 | 314 |

Barrages

FSL = 0.75 m AHD

| | Openings | Level | Status |
|----------------|--------------|-------|------------|
| Goolwa | 128 openings | 0.70 | All closed |
| Mundoo | 26 openings | 0.72 | All closed |
| Boundary Creek | 6 openings | - | All closed |
| Ewe Island | 111 gates | - | All closed |
| Tauwitchere | 322 gates | 0.71 | All closed |

