

REPORT FOR THE WEEK ENDING

Wednesday, 24 October 2001

Our Ref: MDBC:269 :ng

26 October, 2001



Rain blanketed the Murray-Darling Basin this week with light falls of between 1 and 10 mm recorded in the north and west of the Basin, and falls of between 10 and 25 mm recorded in the south. Heavier falls of between 25 and 50 mm were recorded in the upper Murray catchment with some falls of up to 75 mm recorded in the Kiewa and Ovens catchments.

Storage in Dartmouth Reservoir rose slightly to 3 476 GL (89% of capacity) however without further rain the lake level is expected to begin falling next week. Release from Dartmouth will be maintained at about 4 000 ML/day next week and will be reviewed in early November. Storage in Hume Reservoir increased 91 GL and is now 2 177 GL (72% of capacity). Inflows are expected to increase next week in response to the recent rain and, coupled with reduced releases, are expected to produce further increases in storage. Release on Wednesday 24 October was about 4 000 ML/day and is expected to be reduced towards the minimum requirement of 600 ML/day early next week.

Inflows to the River Murray from the Kiewa and Ovens Rivers have responded to the rain with peaks in the order of 6 000 and 15 000 ML/day expected. Diversion from Lake Mulwala has been reduced in response to the rain and it is anticipated that release downstream of Yarrawonga Weir will be increased and reach a peak over the coming weekend in the order of 15 000 ML/day.

Flow downstream of Torrumbarry Weir is currently steady at about 6 400 ML/day and is expected to remain at about this flow for most of next week. Flow downstream of Euston Weir is currently about 6 000 ML/day and rising. Inflows from the Murrumbidgee River are expected to rise next week to about 3 000 ML/day which will contribute to the flow at Euston approaching 10 000 ML/day in early November.

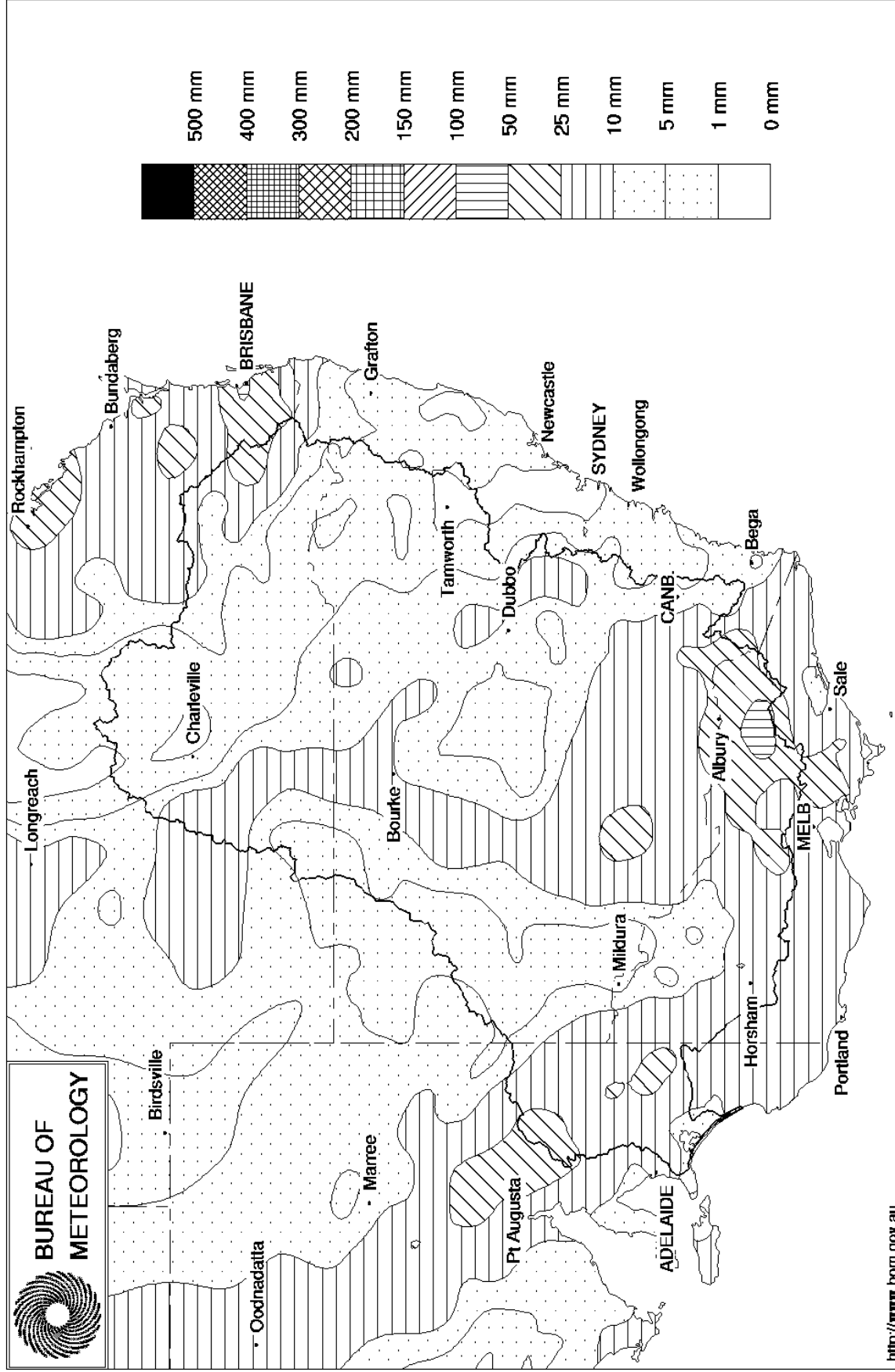
The additional flows in transit in the River Murray from the recent rain will be captured in Lake Victoria for supply to South Australia over the coming summer. This additional resource has allowed the release from Menindee Lakes to be reduced to 7 000 ML/day and it is now anticipated that transfers to Lake Victoria will remain at about 7 000 ML/day until mid-late November.

Additional dilution flow (ADF) of 3 000 ML/day continues to be delivered to South Australia resulting in a total average flow rate at present of 8 500 ML/day. The requirement to supply ADF will cease when the storage volume in Menindee Lakes falls below 1 300 GL. Based on current operational forecasts, this is expected to occur in mid November. Options to deliver South Australia's Entitlement (a monthly volume of 180 GL for November) are currently being discussed with South Australian agencies, to assess the benefits of providing a more consistent pattern of flow, rather than an abrupt change when Menindee storage volume reaches 1 300 GL.

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General Manager

Murray Darling Rainfall Analysis (mm) Week Ending 24th October 2001

Product of the National Climate Centre



<http://www.bom.gov.au>

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Week ending 24-Oct-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 | 479.20 | 3476 | 89% | 80 | 3396 | +6 |
| Hume Reservoir | 192.00 | 3038 | 187.31 | 2177 | 72% | 30 | 2147 | +91 |
| Lake Victoria | 27.00 | 680 | 25.35 | 500 | 73% | 100 | 400 | +22 |
| Menindee | | 1682 * | | 1472 | 87% | 480 # | 992 | -70 |
| Total | | 9306 | | 7624 | 82% | 690 | 6934 | +49 |

* Menindee surcharge capacity 1999 GL

% of Total Active MDBC Storage = **80%**

NSW Menindee Lakes Reserve

Major State Storages

| | | | | | | |
|----------------------|------|------|-----|-----|------|-----|
| Burrinjuck Reservoir | 1026 | 513 | 50% | 3 | 510 | -6 |
| Blowering Reservoir | 1631 | 1054 | 65% | 24 | 1030 | -28 |
| Eildon Reservoir | 3390 | 1430 | 42% | 100 | 1330 | +16 |

Snowy Mountains Scheme

Snowy diversions for week ending 23-Oct-2001

| Storage (GL) | Current storage | Weekly change | Diversion | This week | From 1st May |
|------------------------|-----------------|---------------|------------------|-----------|--------------|
| Lake Eucumbene - Total | 3044 | +33 | Snowy-Murray | +9 | 417 |
| Snowy-Murray Component | 1391 | - | Tooma-Tumut | +10 | 165 |
| Target Storage | 1400 | | Nett Diversion | -1.1 | 253 |
| | | | Murray 1 Release | +21 | 634 |

Major Diversions from Murray and Lower Darling (GL)

| New South Wales | This week | From 1 July |
|-------------------------|-------------|--------------|
| Murray Irrig. Ltd (Net) | 32.9 | 330.9 |
| Wakool System loss | 0.3 | 5.3 |
| Western Murray Irrig. | 0.4 | 3.0 |
| Licensed Pumps | 8.6 | 74.3 |
| Lower Darling | 0.4 | 3.9 |
| TOTAL | 42.6 | 417.4 |

| Victoria | This week | From 1 July |
|---------------------------------|-------------|--------------|
| Yarrowonga Main Channel (net) | 7.5 | 95.9 |
| Torrumbarry System + Nyah (net) | 16.3 | 197.0 |
| Sunraysia Pumped Districts | 2.1 | 19.3 |
| Licensed pumps - GMW (Nyah+u/s) | 1.1 | 22.1 |
| Licensed pumps - SRW | 4.4 | 49.3 |
| TOTAL | 31.5 | 383.6 |

Flow to South Australia (GL)

| | |
|------------------------|------|
| Entitlement this month | 170 |
| Flow this week | 58.8 |
| Flow so far this month | 204 |
| Flow last month | 228 |

Salinity (EC)

(microsiemens/cm @ 25 C)

| | Current | Average over the last week | Average since 1 August |
|-----------------|---------|----------------------------|------------------------|
| Swan Hill | 190 | 210 | 261 |
| Euston | 260 | 317 | 278 |
| Red Cliffs | 340 | 330 | 340 |
| Merbein | 300 | 320 | 312 |
| Burtundy | 440 | 419 | 398 |
| Lock 9 | 430 | 427 | 363 |
| L. Victoria | 410 | 384 | 359 |
| Berri | 410 | 400 | 415 |
| Waikerie | 530 | 520 | 504 |
| Morgan | 500 | 510 | 507 |
| Mannum | 490 | 490 | 514 |
| Murray Bridge | 600 | 527 | 561 |
| Meningie | 1240 | 1230 | 1142 |
| Goolwa Barrages | 830 | 940 | 1534 |



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 | - | - | 6460 | R | 4950 | 5700 |
| Jingellic | 4.0 | 2.16 | 8920 | F | 10070 | 13020 |
| Tallandoon (Mitta Mitta River) | 4.2 | 2.73 | 6890 | R | 5450 | 1910 |
| Heywoods | 5.5 | 1.78 | 4020 | F | 2920 | 5520 |
| Doctors Point | 5.5 | 2.39 | 7180 | S | 6150 | 9400 |
| Albury | 4.3 | 1.37 | - | F | - | - |
| Corowa | 7.0 | 1.77 | 7130 | R | 7140 | 12090 |
| Yarrowonga Weir (d/s) | 6.4 | 1.44 | 7840 | F | 10980 | 11690 |
| Tocumwal | 6.4 | 2.25 | 9171 | F | 11080 | 10380 |
| Torrumbarry Weir (d/s) | 7.3 | 2.26 | 6451 | S | 6400 | 4710 |
| Stevens Weir (d/s) | | 0.88 | 601 | F | 820 | 1270 |
| Swan Hill | 4.5 | 1.27 | 5780 | R | 5360 | 3820 |
| Wakool Junction | 8.8 | 2.77 | 5981 | R | 5130 | 3890 |
| Euston Weir (d/s) | 8.8 | 1.35 | 5860 | S | 4880 | 3650 |
| Wentworth Weir (d/s) | 7.3 | 3.26 | 11460 | R | 11350 | 10460 |
| Rufus Junction | - | 3.83 | 8556 | R | 8100 | 8290 |
| Blanchetown (Lock 1 d/s) | - | - | 7830 | F | 7790 | 7240 |
| Tributaries | | | | | | |
| Kiewa at Bandiana | 2.7 | 2.47 | 5210 | R | 3830 | 4630 |
| Ovens at Wangaratta | 11.9 | 9.60 | 5480 | F | 7110 | 9630 |
| Goulburn at McCoys Bridge | 9.0 | 1.39 | 609 | F | 840 | 760 |
| Edward at Liewah | - | 1.49 | 900 | R | 550 | 430 |
| Wakool at Stoney Crossing | - | 0.58 | 672 | R | 580 | 370 |
| Murrumbidgee at Balranald | 5.0 | 0.62 | 320 | S | 320 | 340 |
| Darling at Bourke | - | 4.12 | 570 | R | 540 | 570 |
| Darling at Burtundy Rocks | - | 4.26 | 8380 | S | 8430 | 8370 |
| Barwon at Mungindi | - | 3.16 | 20 | S | 20 | 20 |

| | | |
|---|-------|-------|
| Natural Inflow to Hume (ie pre Dartmouth & Snowy Mountains scheme) | 16650 | 21260 |
|---|-------|-------|

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 | +0.08 | - | No. 7 Rufus River | 22.10 | +0.05 | +1.52 |
| No 26 Torrumbarry | 86.05 | -0.01 | - | No. 6 Murtho | 19.25 | +0.05 | +0.23 |
| No. 15 Euston | 47.60 | -0.02 | - | No. 5 Renmark | 16.30 | +0.03 | +0.28 |
| No. 11 Mildura | 34.40 | +0.04 | +0.07 | No. 4 Bookpurnong | 13.20 | +0.01 | +1.00 |
| No. 10 Wentworth | 30.80 | +0.01 | +0.62 | No.3 Overland Corner | 9.80 | +0.02 | +0.37 |
| No. 9 Kulnine | 27.40 | +0.03 | +0.02 | No. 2 Waikerie | 6.10 | +0.05 | +0.33 |
| No. 8 Wangumma | 24.60 | +0.00 | +0.11 | No 1. Blanchetown | 3.20 | +0.04 | +0.19 |

| Murrumbidgee | FSL (M AHD) | relation to FSL | d/s gauge ht. metres | Flow ML/day |
|---------------------|-------------|-----------------|----------------------|-------------|
| No. 7 Maude | 75.40 | +0.10 | 2.77 | 4540 |
| No. 5 Redbank | 66.90 | +0.04 | 0.61 | 758 |

Barrages

FSL = 0.75 m AHD

| | Openings | Level | Status |
|----------------|--------------|-------|------------|
| Goolwa | 128 openings | 0.80 | All closed |
| Mundoo | 26 openings | 0.81 | All closed |
| Boundary Creek | 6 openings | - | All closed |
| Ewe Island | 111 gates | - | All closed |
| Tauwichee | 322 gates | 0.87 | 5 |

