## No. 10/2024 14 March 2024

# Summary of key issues

* In the week ending 13 March 2024, the Top End and northern and the interior of Western Australia received significant rainfall, and decent rainfall was experienced along the coastal east and tropical areas of Queensland.
  + A lack of rainfall in most cropping areas, coupled with elevated temperatures, particularly in southern areas, is likely to have led to a reduction in soil moisture levels, particularly in the upper soil profile.
* Over the coming days, the tropics and the interior of Western Australia will continue to receive rainfall, and eastern Queensland and New South Wales are expected to experience showers and storms.
  + A dry week in Queensland and northern New South Wales cropping regions will support uninterrupted harvest of summer crops.
  + Rainfall totals up to 50 millimetres are forecast for central New South Wales and Western Australia cropping regions.
* The national rainfall outlook is for a heightened probability of below average rainfall for much of Australia over the next three months.
  + Considering the recent declines in upper layer soil moisture levels, sufficient and timely rainfall will be required in the coming months in order to facilitate the sowing and establishment of winter crops.
  + Availability of accumulated standing dry matter and ample conserved fodder is likely to enable most livestock producers to maintain current production levels and stocking rates.
* Water storage levels in the Murray-Darling Basin (MDB) decreased between 7 March 2024 and 14 March 2024 by 190 gigalitres (GL). Current volume of water held in storage is 17 553 GL, equivalent to 78% of total storage capacity. This is 13 percent or 2536 GL less than at the same time last year.
* Allocation prices in the Victorian Murray below the Barmah Choke increased from $26 on 7 March 2024 to $27 on 14 March 2024. Prices are lower in the Murrumbidgee due to the binding of the Murrumbidgee export limit.

## **Climate**

### Rainfall this week

For the week ending 13 March 2024, the monsoon trough spanning the Top End and northern Western Australia resulted in significant rainfall, ranging from 100 to 300 millimetres. Additionally, a cold front triggered rainfall in the interior and southern regions of Western Australia, while onshore winds facilitated rainfall along the coastal east and tropical areas of Queensland.

Within cropping regions, rainfall totals reached up to 25 millimetres in the northern reaches of Western Australia and Queensland, with isolated areas of southern Western Australia and central New South Wales receiving up to 15 millimetres. A lack of rainfall in most cropping areas, coupled with elevated temperatures, particularly in southern areas, is likely to have led to a reduction in soil moisture levels, particularly in the upper soil profile.

Dry conditions prevailing in Queensland and northern New South Wales likely facilitated an uninterrupted harvest of summer crops with notably high yields in sorghum.

#### Rainfall for the week ending 13 March 2024

A map of australia with different colored lines

Description automatically generated

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Note: The rainfall analyses and associated maps utilise data contained in the Bureau of Meteorology climate database, the Australian Data Archive for Meteorology (ADAM). The analyses are initially produced automatically from real-time data with limited [quality control](http://www.bom.gov.au/climate/headers/qc.shtml). They are intended to provide a general overview of rainfall across Australia as quickly as possible after the observations are received. For further information go to <http://www.bom.gov.au/climate/rainfall/>

### Rainfall forecast for the next eight days

Over the 8 days to 21 March 2024, monsoon lows will generate rain and storms in the tropics extending to the interior of Western Australia with anticipated accumulations of up to 200 millimetres. Humid and unstable atmospheric conditions are expected to generate showers and storms across areas of eastern Queensland and New South Wales.

Across cropping regions, rainfall totals up to 50 millimetres are forecast for central New South Wales. If realised, these falls will boost soil moisture levels for pasture growth. With the harvest of early planted summer crop now underway, mainly dry conditions over the next 8-days would support an uninterrupted harvest in Queensland and northern New South Wales.

Large areas of Western Australia are expected to receive up to 50 millimetres of rainfall. If realised, these falls will continue to build soil moisture levels ahead of the upcoming winter cropping season. However, timely falls will be required closer to planting of winter crops to consolidate this recent boost in soil moisture.

Little to no rainfall is expected across remaining cropping regions.

#### Total forecast rainfall for the period 14 March to 21 March 2024

A map of australia with different colored lines

Description automatically generated

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Note: This rainfall forecast is produced from computer models. As the model outputs are not altered by weather forecasters, it is important to check local forecasts and warnings issued by the Bureau of Meteorology.

### National Climate Outlook

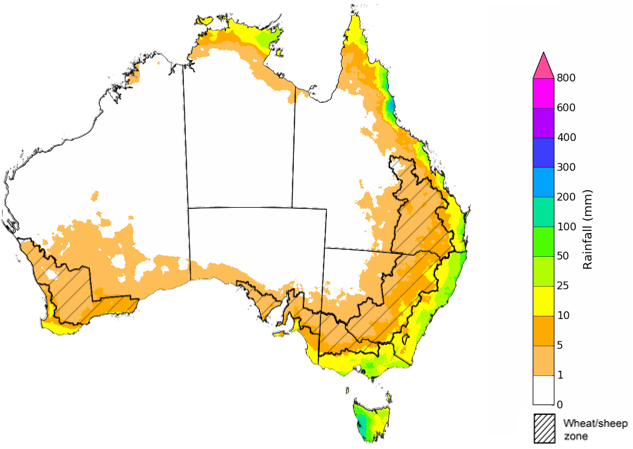
The most recent rainfall outlook for April 2024 provided by the Bureau of Meteorology indicates a high likelihood (60 to 80% chance) of below-median rainfall across a significant portion of Australia. Notable exceptions being Tasmania, along with much of New South Wales and southern areas of Queensland, which are showing an equal probability of below or above median rainfall.

According to Bureau of Meteorology’s climate model, there is a 75% probability of rainfall totals exceeding 25 millimetres in coastal eastern and northern Australia, as well as in western Tasmania and southern Victoria, for April 2024. Northeastern coastal Queensland and western Tasmania are anticipated to receive rainfall totals surpassing 100 millimetres.

Within cropping regions, there is at least 75% chance of rainfall totals exceeding 25 millimetres along the eastern fringes of New South Wales and Victoria. By contrast, April rainfall totals for the remaining cropping regions have a 75% chance of exceeding 5-10 millimetres.

A lack of sufficient rainfall in April is likely to result in an increased disconnect between upper- and lower-layer soil moisture, meaning that there would be limited opportunities to plant winter crops under ideal conditions. This may see many grain producers opt to dry sow crops, which presents some production risk outcomes if May rainfall is not sufficient to support germination and establishment, until plant roots are able to tap into stored lower layer soil moisture.

**Rainfall totals that have a 75% chance of occurring in April 2024**



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The El Niño event of 2023 persists in its weakening trend, with the anticipation of a transition to neutral ENSO conditions during the current 2024 autumn. The rainfall outlook for April through June 2024 indicates a probability of below-median rainfall across much of Australia.

Across cropping regions, the odds of exceeding median rainfall range between 35 and 45% across most growing regions. The chance of exceeding median rainfall is lower (25 to 40% chance) in Western Australia cropping regions.

**Chance of exceeding the median rainfall** **April to June 2024**

A map of australia with different colored areas

Description automatically generated

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The outlook for April to June 2024 suggests there is at least 75% chance of rainfall exceeding 25 millimetres throughout much of southern and eastern Australia, with notable exceptions in large sections of the interior and northern regions where rainfall below 25 millimetres is more likely. Along Australia’s eastern and southern coastline, as well as western Tasmania, rainfall totals in excess of 200 millimetres are expected during this period.

Across cropping regions, there is at least a 75% chance of receiving 25 millimetres or more.

Considering the recent declines in upper layer soil moisture levels and the heightened probability of below average rainfall over the next three months, sufficient and timely rainfall will be required in the coming months in order to facilitate the sowing and establishment of winter crops. Livestock producers, especially those in southern Australia, are expected to experience below-average pasture production due to reduced rainfall. However, the availability of accumulated standing dry matter and ample conserved fodder is likely to enable most producers to maintain current production levels and stocking rates.

**Rainfall totals that have a 75% chance of occurring** **April to June 2024** A map of australia with different colored areas

Description automatically generated

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## **Water**

### Water markets – current week

Water storage levels in the Murray-Darling Basin (MDB) decreased between 7 March 2024 and 14 March 2024 by 190 gigalitres (GL). Current volume of water held in storage is 17 553 GL, equivalent to 78% of total storage capacity. This is 13 percent or 2536 GL less than at the same time last year.

#### Water storages in the Murray-Darling Basin, 2013–2024

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|  |
| --- |
| Water storage data is sourced from the Bureau of Meteorology. |

Allocation prices in the Victorian Murray below the Barmah Choke increased from $26 on 7 March 2024 to $27 on 14 March 2024. Prices are lower in the Murrumbidgee due to the binding of the Murrumbidgee export limit.

|  |  |
| --- | --- |
| **Region** | **$/ML** |
| NSW Murray Above | 12 |
| NSW Murrumbidgee | 25 |
| VIC Goulburn-Broken | 26 |
| VIC Murray Below | 27 |

#### Surface water trade activity, Southern Murray–Darling Basin

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|  |
| --- |
| The trades shown reflect estimated market activity and do not encompass all register trades. The price is shown for the VIC Murray below the Barmah choke. Historical prices (before 1 July 2019) are ABARES estimates after removing outliers from BOM water register data. Prices after 1 July 2019 and prior to the 30 October 2019 reflect recorded transaction prices as sourced from Ruralco. Prices after the 30 October 2019 are sourced from Waterflow. Data for volume traded is sourced from the BOM water register. Only the price data shown is current on 14 March 2024. |

To access the full, interactive, weekly water dashboard, which contains the latest and historical water storage, water market and water allocation information, please visit <https://www.agriculture.gov.au/abares/products/weekly_update/weekly-update-14324>

## **Commodities**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Indicator** | **Week ended** | **Unit** | **Latest Price** | **Previous Week** | **Weekly change** | **Price 12 months ago** | **Annual change** |
| **Selected world indicator prices** |  |  |  |  |  |  |  |
| AUD/USD Exchange rate | 13-Mar | A$/US$ | 0.66 | 0.65 | 1% | 0.67 | -1% |
| Wheat – US no. 2 hard red winter wheat, fob Gulf | 13-Mar | US$/t | 280 | 278 | 1% | 368 | -24% |
| Corn – US no. 2 yellow corn, fob Gulf | 13-Mar | US$/t | 192 | 189 | 2% | 284 | -32% |
| Canola – Rapeseed, Canada, fob Vancouver | 13-Mar | US$/t | 496 | 479 | 3% | 593 | -16% |
| Cotton – Cotlook 'A' Index | 13-Mar | USc/lb | 101 | 102 | -1% | 92 | 10% |
| Sugar – Intercontinental Exchange, nearby futures, no.11 contract | 13-Mar | USc/lb | 21.7 | 20.9 | 4% | 20 | 6% |
| Wool – Eastern Market Indicator | 06-Mar | Ac/kg clean | 1,172 | 1,158 | 1% | 1,341 | -13% |
| Wool – Western Market Indicator | 06-Mar | Ac/kg clean | 1,308 | 1,287 | 2% | 1,486 | -12% |
| **Selected Australian grain export prices** |  |  |  |  |  |  |  |
| Milling Wheat – APW, Port Adelaide, SA | 13-Mar | A$/t | 404 | 425 | -5% | 472 | -14% |
| Feed Wheat – ASW, Port Adelaide, SA | 13-Mar | A$/t | 384 | 403 | -5% | 447 | -14% |
| Feed Barley – Port Adelaide, SA | 13-Mar | A$/t | 342 | 349 | -2% | 407 | -16% |
| Canola – Kwinana, WA | 13-Mar | A$/t | 682 | 695 | -2% | 936 | -27% |
| Grain Sorghum – Brisbane, QLD | 13-Mar | A$/t | 459 | 462 | -1% | 517 | -11% |
| **Selected domestic livestock indicator prices** |  |  |  |  |  |  |  |
| Beef – Eastern Young Cattle Indicator | 13-Mar | Ac/kg cwt | 600 | 624 | -4% | 688 | -13% |
| Mutton – Mutton indicator (18–24 kg fat score 2–3), Vic | 13-Mar | Ac/kg cwt | 231 | 253 | -9% | 302 | -24% |
| Lamb – National Trade Lamb Indicator | 13-Mar | Ac/kg cwt | 606 | 613 | -1% | 702 | -14% |
| Pig – Eastern Seaboard (60.1–75 kg), average of buyers & sellers | 28-Feb | Ac/kg cwt | 411 | 411 | 0% | 357 | 15% |
| Goats – Eastern States (10.1–12 kg) | 27-Dec | Ac/kg cwt | 170 | 170 | 0% | 350 | -51% |
| Live cattle – Light steers to Indonesia | 13-Mar | Ac/kg lwt | 350 | 350 | 0% | 400 | -13% |
| **Global Dairy Trade (GDT) weighted average prices a** |  |  |  |  |  |  |  |
| Dairy – Whole milk powder | 06-Mar | US$/t | 3,286 | 3,388 | -3% | 3,264 | 1% |
| Dairy – Skim milk powder | 06-Mar | US$/t | 2,640 | 2,788 | -5% | 2,769 | -5% |
| Dairy – Cheddar cheese | 06-Mar | US$/t | 4,277 | 4,143 | 3% | 5,086 | -16% |
| Dairy – Anhydrous milk fat | 06-Mar | US$/t | 6,637 | 6,552 | 1% | 5,447 | 22% |
| **a** Global Dairy Trade prices are updated twice monthly on the first and third Tuesday of each month. | | | | | | | |

### Selected world indicator prices

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### Selected domestic crop indicator prices

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### Selected domestic livestock indicator prices

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A graph of goats showing the number of animals

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### Global Dairy Trade (GDT) weighted average prices

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### Selected fruit and vegetable prices

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### 3.6 Selected domestic fodder indicator prices

A graph of cereal hay

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A graph of a number of people

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## **4. Data attribution**

### Climate

Bureau of Meteorology

* Weekly rainfall totals: www.bom.gov.au/climate/maps/rainfall/
* Monthly and last 3-month rainfall percentiles: [www.bom.gov.au/water/landscape/](http://www.bom.gov.au/water/landscape/)
* Temperature anomalies: [www.bom.gov.au/jsp/awap/temp/index.jsp](http://www.bom.gov.au/jsp/awap/temp/index.jsp)
* Rainfall forecast: [www.bom.gov.au/jsp/watl/rainfall/pme.jsp](http://www.bom.gov.au/jsp/watl/rainfall/pme.jsp)
* Seasonal outlook: [www.bom.gov.au/climate/outlooks/#/overview/summary/](http://www.bom.gov.au/climate/outlooks/#/overview/summary/)
* Climate drivers: <http://www.bom.gov.au/climate/enso/>
* Soil moisture: [www.bom.gov.au/water/landscape/](http://www.bom.gov.au/water/landscape/)

Other

* Pasture growth: [www.longpaddock.qld.gov.au/aussiegrass/](http://www.longpaddock.qld.gov.au/aussiegrass/)
* 3-month global outlooks: [Environment and Climate Change Canada](https://weather.gc.ca/saisons/image_e.html?img=s234pfe1p_cal&bc=prob), [NOAA Climate Prediction Center](https://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=2), [EUROBRISA CPTEC/INPE](http://eurobrisa.cptec.inpe.br/), European Centre for Medium-Range Weather Forecasts, [Hydrometcenter of Russia](https://meteoinfo.ru/en/climate/seasonal-forecasts), [National Climate Center Climate System Diagnosis and Prediction Room (NCC)](https://cmdp.ncc-cma.net/pred/cs2gen.php?pred_elem=RAINP#pred_seasonal), [International Research Institute for Climate and Society](https://iri.columbia.edu/our-expertise/climate/forecasts/seasonal-climate-forecasts/)
* Global production: <https://ipad.fas.usda.gov/ogamaps/cropmapsandcalendars.aspx>
* Autumn break: Pook et al., 2009, <https://rmets-onlinelibrary-wiley-com.virtual.anu.edu.au/doi/epdf/10.1002/joc.1833>

### Water

Prices

* Waterflow: <https://www.waterflow.io/>
* Ruralco: <https://www.ruralcowater.com.au/>

Bureau of Meteorology:

* Allocation trade: <http://www.bom.gov.au/water/dashboards/#/water-markets/mdb/at>
* Storage volumes: <http://www.bom.gov.au/water/dashboards/#/water-storages/summary/drainage>

Trade constraints:

* Water NSW: <https://www.waternsw.com.au/customer-service/ordering-trading-and-pricing/trading/murrumbidgee>
* Victorian Water Register: <https://www.waterregister.vic.gov.au/TradingRules2019/>

### Commodities

Fruit and vegetables

* Datafresh: [www.freshstate.com.au](http://www.freshstate.com.au)

Pigs

* Australian Pork Limited: [www.australianpork.com.au](http://www.australianpork.com.au)

Dairy

* Global Dairy Trade: [www.globaldairytrade.info/en/product-results/](http://www.globaldairytrade.info/en/product-results/)

World wheat, canola

* International Grains Council

World coarse grains

* United States Department of Agriculture

World cotton

* Cotlook: [www.cotlook.com/](http://www.cotlook.com/)

World sugar

* New York Stock Exchange - Intercontinental Exchange

Wool

* Australian Wool Exchange: [www.awex.com.au/](http://www.awex.com.au/)

Domestic wheat, barley, sorghum, canola and fodder

* Jumbuk Consulting Pty Ltd: http://www.jumbukag.com.au/

Cattle, beef, mutton, lamb, goat and live export

* Meat and Livestock Australia: www.mla.com.au/Prices-and-market

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